An integrated clinico-metabolomic model improves prediction of death in sepsis

Supplemental Material

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Supplemental Materials and Methods

Patient Selection and Clinical Data Collection

The CAPSOD study was approved by the Institutional Review Boards of the National Center for Genome Resources, Duke University Medical Center, Durham Veterans Affairs Medical Center and Henry Ford Health Systems and filed at ClinicalTrials.gov (NCT00258869). Inclusion criteria were presentation of adults at the ED with known or suspected acute infection and presence of at least two SIRS criteria (tympanic temperature <36°C or >38°C, tachycardia >90 beats per minute, tachypnea >20 breaths per minute or $PaCO_2$ <32 mmHg, white cell count <4000 cells/mm³ or >12,000 cells/mm³ or >10% neutrophil band forms)(*12, 17, 25*). Exclusion criteria were as previously described (*12, 17, 25*). Patients were enrolled from 2005 through 2009 and written informed consent was obtained by all study participants or their legal designates.

Patient demographics, past medical history, physical examination, APACHE II, SOFA, development of ALI or ARDS and treatment were recorded at t_0 and t_{24} using online electronic data capture (Prosanos Inc., Harrisburg, PA) as described (*11, 12, 17, 25, 89*). Microbiologic evaluation was as clinically indicated and supplemented by SeptiFast testing (*25*). Finger-stick lactate values were obtained. After 28 days, charts were reviewed and largest deviations of clinical and laboratory parameters from normal were recorded, together with outcome measures (development of severe sepsis, septic shock and death (*90*)), microbiologic results, treatment and time-to-events. Blood for metabolomic and proteomic analyses was collected in bar-coded EDTA-plasma tubes at enrollment (t_0) and the following day (t_{24}), incubated on ice, plasma separated (within 4 hours), and aliquots stored at -80°C.

All subject records were adjudicated independently after day 28 by a physician with critical care training to determine whether presenting symptoms and signs were due to infection, etiologic agent, site of infection, patient outcomes and times-to-outcomes. Patients were clinically categorized based on infection likelihood and microbial etiology(*12, 25*): definite infection, causative organism identified; definite infection, causative organism uncertain; indeterminate, infection possible; no evidence of infection; and no evidence of infection and diagnosis of a non-infectious process accounting for SIRS. Criteria used to guide these adjudications are presented in Table S1. A second physician

with infectious diseases training independently adjudicated a 10% sample. Agreement regarding infection classification was high with a κ of 0.82 (*12*). 150 patients were selected from the definite infection and non-infection categories for plasma metabolome and proteome analyses as follows: non-infected patients with ≥2 SIRS criteria (n=29); uncomplicated sepsis (sepsis without progression and with survival at day 28; n=27); severe sepsis (sepsis at t_0 with progression to severe sepsis by day 3, n=25); septic shock (sepsis at t_0 with progression to septic shock by day 3, n=38); sepsis nonsurvivors (sepsis with death by day 28, n=31). Patients with sepsis were further selected to enrich for confirmed infections due to *E. coli*, *S. aureus*, and *S. pneumoniae*. Within these constraints, groups were matched for age, race, sex and enrollment site. Validation studies employed in an independent CAPSOD sample of 18 sepsis nonsurvivors and 34 matched sepsis survivors (at t_0 [Vt_0] and t_{24} [Vt_{24}]). The validation set included all remaining sepsis nonsurvivors in CAPSOD at time of selection, and, as a result differed in median time-to-death from the discovery cohort (18.5 days *vs.* 10.7 days, respectively). eGFR was calculated using the four variable modification of diet in renal disease calculation (*91*).

Metabolite Sample Preparation and Gas Chromatography/Mass-Spectrometry and Liquid Chromatography/Mass-Spectrometry Analysis

Methanol extraction of small molecules was carried out as described previously (*78*, *79*) using 100μL plasma. A well-characterized pool of human plasma ("Matrix", MTRX) was prepared in parallel and included as a technical replicate to assess variability and sensitivity in measurements, as described (*78*, *92*). The resulting extract was divided into four fractions: one for analysis by ultra-high performance liquid chromatography-tandem mass spectrometry (UPLC-MS/MS; positive mode), one for analysis by UPLC-MS/MS (negative mode), one for analysis by gas chromatography–mass spectrometry (GC-MS), and one sample was reserved for backup.

Non-targeted UPLC-MS/MS and GC-MS analyses were performed at Metabolon, Inc. as described (*78-80*). The UPLC-MS/MS platform utilized a Waters Acquity UPLC with Waters UPLC BEH C18-2.1×100 mm, 1.7 μm columns and a ThermoFisher LTQ mass spectrometer, which included an electrospray ionization source and a linear ion-trap mass analyzer. The instrumentation was set to monitor for positive ions in acidic extracts or negative ions in basic extracts through independent injections. The instrument was set to scan 99–1000 m/z and alternated between MS and MS/MS scans. Samples destined for analysis by GC-MS were dried under vacuum desiccation for a minimum of 18 hours prior

to being derivatized using bis(trimethylsilyl)trifluoroacetamide. Derivatized samples were separated on a 5% phenyldimethyl silicone column with helium as carrier gas and a temperature ramp from 60° to 340°C within a 17-min period. All samples were analyzed on a Thermo-Finnigan Trace DSQ fast-scanning single-quadrupole MS operated at unit mass resolving power with electron impact ionization and a 50–750 atomic mass unit scan range.

Metabolites were identified by as previously described by Metabolon (*81*). Identification of known chemical entities was based on comparison to metabolomic library entries of more than 2,400 purified standards. An additional 5,300 mass spectral entries have been created for structurally unnamed biochemicals, which have been identified by virtue of their recurrent nature (both chromatographic and mass spectral). These compounds have the potential to be identified by future acquisition of a matching purified standard or by classical structural analysis. Quantification was performed as described previously.

Quantitative LC/MS/MS Measurements

Combined internal standard working solution was made, comprising: A. butyroylcarnitine-d3 at 400 ng/mL, 2-methylbutyroylcarnitine-d3 at 200ng/mL, hexanoylcarnitine-d3 at 200ng/mL and 4-*cis*-decenoylcarnitine-d3 (Universidad Autonoma de Madrid, Spain) at 400 ng/mL in acetonitrile/water (1:1); B. uridine-$^{13}C_5$ at 5000 ng/ml, 4-methyl-2-oxopentanoate-d_3 at 1000ng/ml, N-acetylthreonine-d_5 at 5000 ng/ml, 3-methoxytyrosine-d_3 at 1000 ng/ml, in acetonitrile/water (1:1); C. 1-linoleoyl-GPC-d_9 20,000 ng/ml in ethanol. Six calibration samples were made in acetonitrile/water (1:1) and plasma. (Table S6). Since analyte concentrations are reported in the weight/volume format ("ug/mL") and not in molar concentrations, the calculation of the final concentration includes a correction to account for the difference in molecular weight between the surrogate reference standard linoleoyl-GPC and arachidonoyl-GPC. 50µL of 382 human EDTA plasma samples, 48 quality control plasma aliquots, 6 calibration standards and a blank internal standard (H_2O) were each spiked with 20µL of internal standard working solution and with acetonitrile/water (1:1) and or ethanol (1:1:2) and 200-500 µL of methanol or methanol with 1% formic acid. Samples were vortexed and centrifuged to precipitate proteins. 180µL of the supernatant was dried under a stream of nitrogen at 40^0C, reconstituted in 75µL of water or 75 µl of water containing 1% formic acid, vortexed, centrifuged. Also, 180 µl of clear organic upper layer and 80 µl of DNPH solution (1% DNPH in acetonitrile/acetic acid) were heated at 60°C for 1 h. The treated samples were injected onto a Waters Acquity UPLC/Thermo Quantum Ultra triple quadrupole LC/MS/MS system with HESI source

equipped with a reversed phase chromatographic column. The peak areas of the respective product ions were measured against the peak areas of the corresponding internal standard product ions (Fig. S9). The monitored ion masses (SRM mode) are listed (Table S7). For arachidonoyl-GPC a reference standard was not commercially available. The close analogue linoleoyl-GPC was utilized as a surrogate reference compound for calibration assuming similar molar response factors for both compounds. With quantitation of acyl-GPCs, it appears that acyl-GPCs exhibit similar molar response factors when monitoring the same Q3-fragment (m/z 184) for these compounds. Therefore, 1-arachidonoyl-GPC was measured by monitoring the 244 -> 184 trace and calibrated using a calibration curve that was obtained from monitoring the 220 -> 184 trace for linoleoyl-GPC in calibration standard samples. Since analyte concentrations are reported in the weight/volume format ("ug/mL") and not in molar concentrations, the calculation of the final concentration includes a correction to account for the difference in molecular weight between the surrogate reference standard linoleoyl-GPC and arachidonoyl-GPC. Chromatographic conditions for butyroylcarnitine, 2-methylbutyroylcarntine, hexanoylcarnitine and 4-cis-decenoylcarntine were: Mobile phase A, 0.1% formic acid in water; Mobile phase B, 0.5% formic acid in acetonitrile; UHPLC column, Waters Acquity C 18 BEH, 1.7 micron 2.1 × 100 mm; Injection volume, 10µL. For N-acetylthreonine, 3-methoxytyrosine, HPLA linoleoyl-GPC and arachidonoyl-GPC were mobile phase A, 0.1% formic acid in water; mobile phase B, acetonitrile/methanol (1:1); UPHLC Column, Pinnacle Propyl, 1.9 µ 2.1x100 mm; injection volume 8.0 µl. For 4-methyl-2-oxopentanoate were: Mobile phase A, 5 mM ammonium formate in H_20; mobile phase B, acetonitrile/methanol (1:1); UHPLC column, Acquity C 18 BEH, 1.7 µ 2.1 x100 mm; injection volume, 1 µl. For pseudouridine, mobile phase A, 0.1% formic acid in H_2O; mobile phase B acetonitrile/methanol (1:1); UHPLC column, Acquitey C 18 BEH, 1.7 µ 2.1 x100 mm; injection volume, 2.0 µl. Quantitation was performed using weighted linear least squares regression analysis generated from fortified calibration standards prepared immediately prior to each run (Fig. S10).

Proteome Sample Preparation and Mass Spectrometry Analysis

Plasma samples were thawed on ice at Monarch Life Sciences Inc. and the top-12 most abundant proteins (albumin, IgG, fibrinogen, transferrin, IgA, IgM, haptoglobin, α2-macroglobulin, α1-acid glycoprotein, α1-antitrypsin and apolipoprotein A-I and A-II) were removed using Seppro IgY-12 Columns (GenWay Biotech Inc.). Column flow-throughs were

denatured by 8M urea, reduced by triethylphosphine, alkylated by iodoethanol and digested by trypsin, as described(*82*). Tryptic digests (~20 μg) were analyzed using a Thermo-Fisher Scientific LTQ linear ion-trap mass spectrometer coupled with a Surveyor HPLC system. Peptides were separated on a C18 reverse phase column (i.d. = 2.1 mm, length = 50 mm) with a flow rate of 200μl/min and eluted with a gradient from 5 to 45% acetonitrile developed over 120 min. All injections were randomized and the instrument was operated by the same operator for the study. Data were collected in the triple-play mode (MS scan, zoom scan and MS/MS scan). Data were filtered and analyzed as described (*83, 84*). Database searches were carried out using both the X!Tandem and SEQUEST algorithms (*85, 86*). Parameters were set as follows: a mass tolerance of 2 Da for precursors and 0.7 Da for fragment ions, two missed cleavage sites allowed for trypsin, carbamidomethyl cysteine as fixed modification, and oxidized methionine as optional modification. The q-value represented peptide false identification rate and was calculated by incorporating Sequest and X!Tandem results in addition to a number of other relevant factors such as Ä [M+H]+ and charge state (*83*). Observed peptide MS/MS spectrum and theoretically derived spectra were used to assign quality scores (Xcorr in SEQUEST and e-Score in X!Tandem). Protein identities were assigned priority scores (from 1 to 4): based on the peptide ID confidence (q-value) and the number of unique peptides used for protein identification: Priority 1, high peptide confidence (>90%) and multiple unique sequences; Priority 2, high peptide confidence (>90%) and single peptide sequence; Priority 3, moderate peptide confidence (between 75% and 89%) and multiple unique sequences; Priority 4, moderate peptide confidence (between 75% and 89%) and single peptide sequence. Priority 1 protein identifications were employed for analyses, except protein-metabolite correlations, which also employed Priority 2 identifications that were observed at both t_0 and t_{24}.

Protein quantification was carried out using the method of Higgs et al.(*84*). Briefly, raw files were acquired from the LTQ and all extracted ion chromatograms (XIC) were aligned by retention time. For protein quantification, each aligned peak must match four criteria: precursor ion, charge state, fragment ions (MS/MS data) and retention time (within a one-minute window). AUC Peak intensities were log2 transformed before quantile normalization (*87*) to ensure that every sample had a peptide intensity histogram of the same scale, location and shape. Normalization removed trends introduced by sample handling, sample preparation, total protein differences and changes in instrument sensitivity while running multiple samples. If multiple peptides had the same protein identification, then their quantile normalized log2 intensities were averaged to obtain log2 protein intensities.

Proteome MS Spectral Counts Validation Analysis

Raw LC-MS/MS data files collected on a LTQ Linear Ion Trap (ThermoFisher Scientific) were delivered to the Duke Proteomics Core Facility as .raw files with appropriate deidentified clinical data. The centroid MS/MS data was processed into .mgf files using Mascot Distiller v2.0 (Matrix Sciences, Inc), and searched with Mascot v2.2. Mascot was set up to search the Swissprot v57.5 database (www.uniprot.org) with human taxonomy and decoy database enabled, trypsin specificity with a maximum of 2 missed cleavages, and 2 Da precursor and 0.8 Da product ion mass accuracy. Iodoacetamide derivative of cysteine was specified as a fixed modification, and deamidation of asparagine, deamidation of glutamine, and oxidation of methionine were specified in Mascot as variable modifications.

Scaffold version 3.0 (Proteome Software Inc., Portland, OR) was used to import search results directly from Mascot and validate MS/MS based peptide and protein identifications. Because of the number of analyses, the time zero (n=150) and 24 hour (n=131) datasets were imported and validated in Scaffold independently. For both data sets, peptide identifications were accepted if they could be established at greater than 50.0% probability as specified by the Peptide Prophet algorithm (*93*), and protein identifications were accepted if they could be established at greater than 90.0% probability and contained at least 1 identified peptide. Protein probabilities were assigned by the Protein Prophet algorithm (*94*). Proteins that contained similar peptides and could not be differentiated based on MS/MS analysis alone were grouped to satisfy the principles of parsimony. Non-normalized spectral counting reports were then exported independently for each of the datasets, and compiled in Microsoft Excel 2007. Using the Protein Prophet Scores, the protein search results from both datasets were compiled, sorted and curated using reverse (decoy) sequences identified to set the protein false discovery rate of the aggregate dataset to 2.5%. Proteins identified below this threshold were discarded from the dataset. Follow-up comparative quantitation between individuals and timepoints was performed using spectral counting in the form of number of identified spectra per protein.

Statistical Analyses

Bayesian clinical factor analysis: [$c_j = By_j + A(s_j \circ z_j) + \varepsilon_j$] The formula defines B as the relationship between data and the clinical feature, while A defines random or undefined effects and ε accounts for random noise. The term $A(s_j \circ z_j)$ handles latent factors, where s_j is a real vector, z_j is a sparse binary vector, and A is a factor matrix. The Hadamard

(pointwise) vector product reflected by $s_j \circ z_j$ defines the set of columns of A needed to represent the data. Through z_j the model infers the number of latent factors (columns) that are needed. The clinical features were further normalized with zero-mean and standard deviation.

Pairwise cross correlations: Briefly, all proteins and all metabolites were included, with the exception of unannotated GC/MS determined compounds or redundant entries. Metabolite and protein log2 values were transposed into a wide format and the correlations were merged based on patient identification.

Support vector machines (SVM): Data from 173 unique sepsis survivors and deaths was used; where data from the same person was available at both t_0 and t_{24}, one time point was randomly chosen and included (87 for training and the remaining 86 for testing). Values were normalized by subtracting the mean and dividing by the standard deviation. 100 random partitions were performed for training and test data for each setting. Performance was evaluated by test data scores for AUC and accuracy. Accuracy was highly dependent on the threshold chosen for the scores. In all experiments, assuming there were N_SD sepsis nonsurvivors samples for training, the scores of the training samples were sorted and the N_SDth score was used as the cutoff threshold T with the test data. Any test samples with scores >T were declared to be sepsis nonsurvivors and any with scores $\leq$T were declared to be sepsis survivors. Parameter weights were derived for linear SVM with the training samples. It should be noted that each feature was not simply multiplied by each weight since the mean of each feature worked as an offset and was not informative for classification.

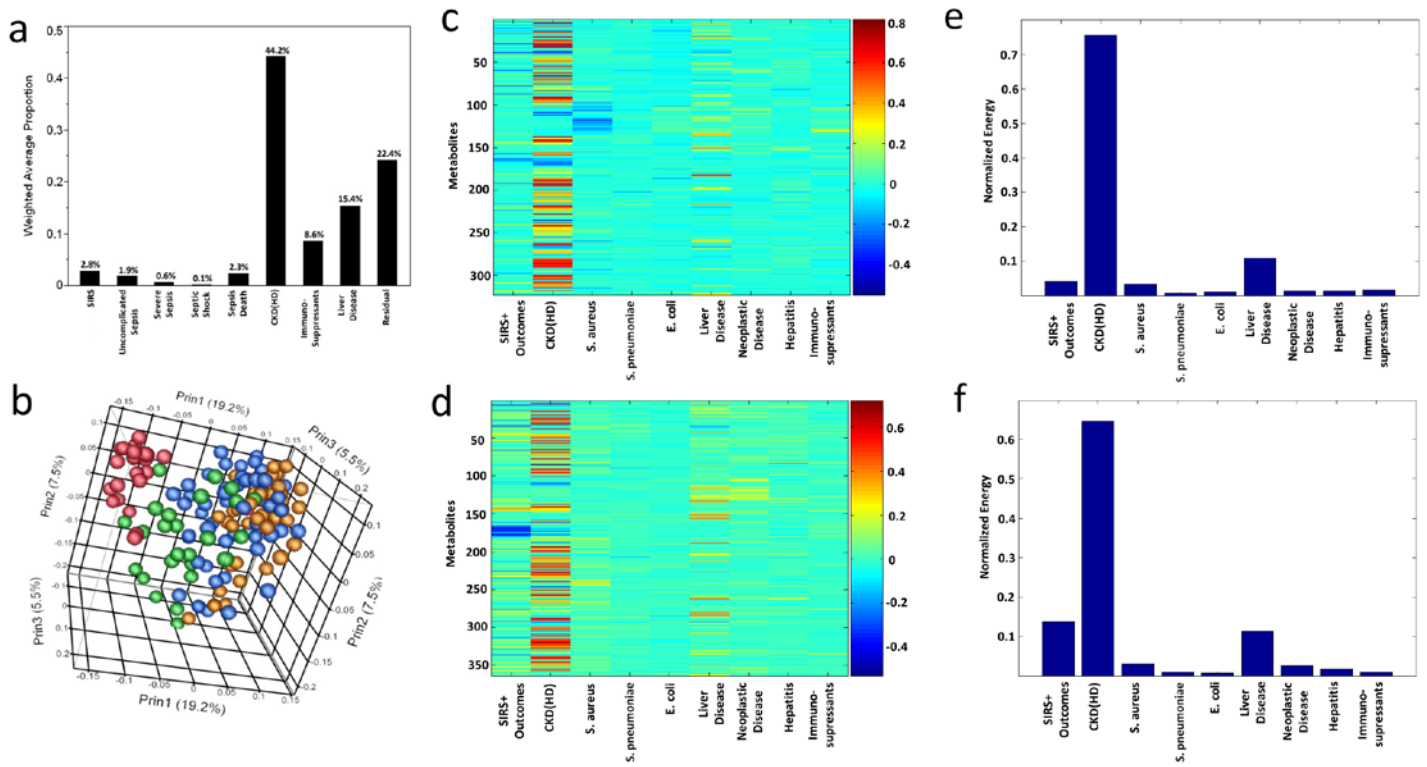


Figure S1. Sepsis group effects and clinical factors that lead to variation in the plasma metabolome. a. Variance decomposition (with Pearson product-moment correlation) for sepsis groups, chronic kidney disease/hemodialysis (CKD(HD)), liver disease, and immunosuppressant therapy. CKD(HD): determined by estimated glomerular filtration rate (eGFR), or hemodialysis. **b.** Unsupervised principal components analysis (PCA) of patient plasma metabolites based on renal function. CKD1/2 (yellow, eGFR >75 mL/min, n = 44); CKD3 (blue, eGFR 32-74 mL/min, n = 56); CKD4/5 (green, eGRF 0-31 mL/min, n = 25); hemodialysis (HD, red, n = 24). B-matrices of Bayesian factor analysis (**c** and **d**) and the normalized factor scores (**e** and **f**) of sepsis group membership (SIRS+Outcomes), renal category (CKD(HD)) and other clinical parameters in log-transformed plasma metabolites at t_0 (**c** and **e**) and t_{24} (**d** and **f**). Sepsis group membership (SIRS+Outcomes) was defined as SIRS, sepsis survival and sepsis nonsurvivor. Renal function was defined as eGFR>75mL/min=0; 32-74mL/min=1; <31mL/min=2; hemodialysis=3. Clinical parameters were fit to a normal distribution with mean of 0 and standard deviation of 1. CKD(HD), liver disease and SIRS+Outcomes largely define changes in the plasma metabolome at t_0 in descending order. Normalized factor scores of sepsis group membership (SIRS+Outcomes) increased from 0.06 at t_0 to 0.14 at t_{24}.

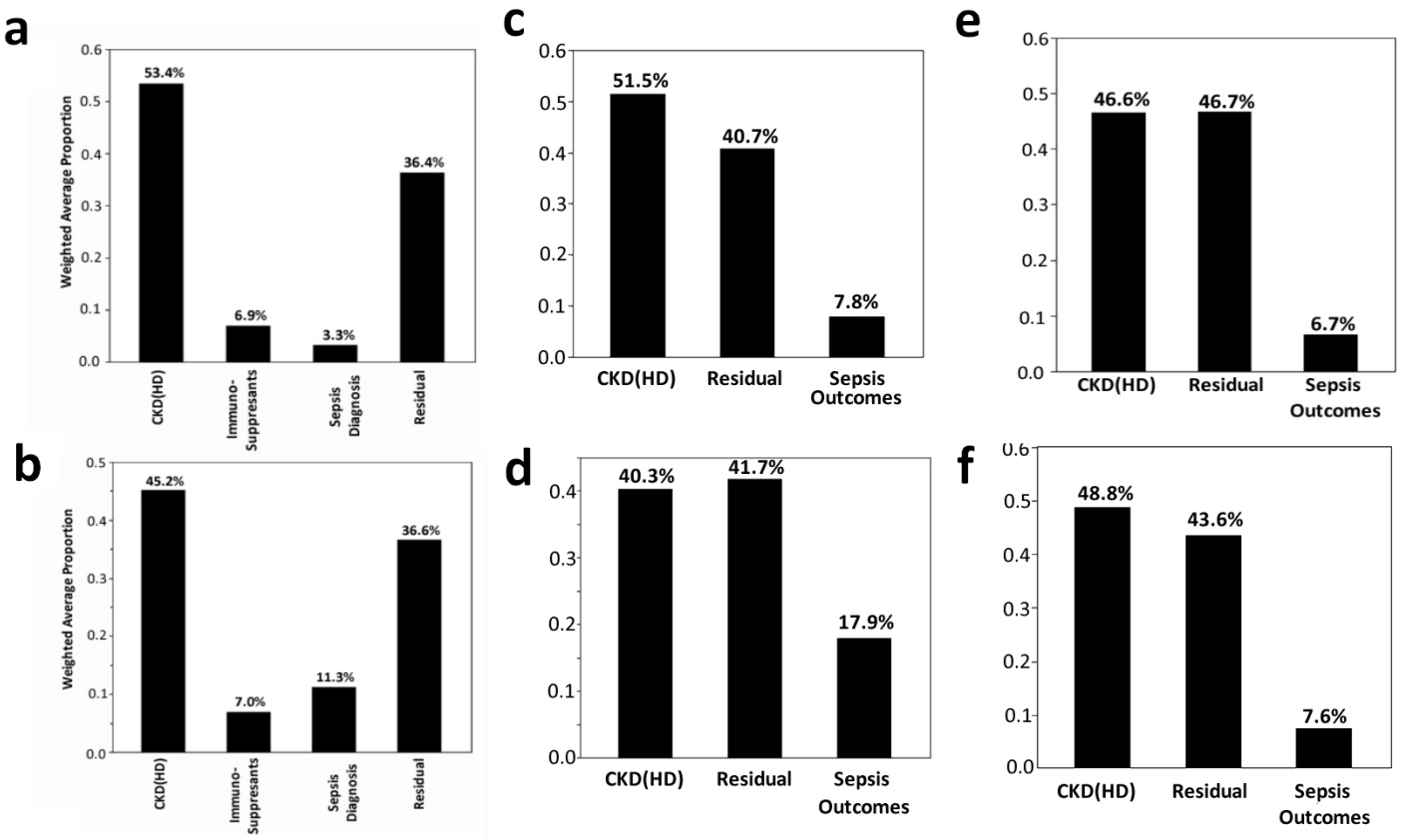


Figure S2. Variance decomposition (with Pearson correlation) of metabolomic changes in sepsis diagnosis and outcomes. Sepsis diagnosis (SIRS-positive vs. sepsis survivors) at t_0 (**a**) and t_{24} (**b**). Plasma metabolite changes in sepsis outcomes (survival or death) in the derivation cohort at t_0 (**c**) and t_{24} (**d**), and in the validation cohort at t_0 (**e**) and t_{24} (**f**).

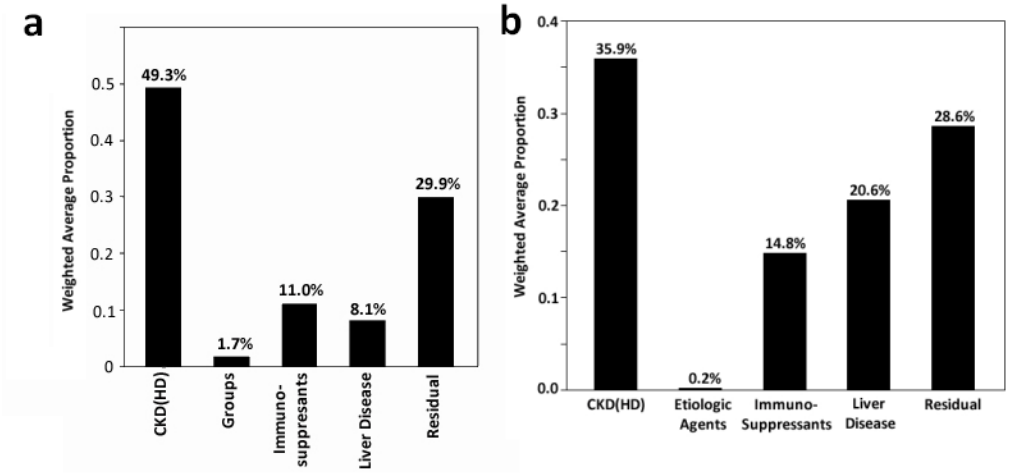


Figure S3. Variance components attributable to sepsis survivor subgroups and etiologic agents Sepsis subgoups (uncomplicated sepsis, severe sepsis and septic shock, panel a) and etiologic agents (*E. coli* (n=16), *S. pneumoniae* (n=31) and *S. aureus* (n=27), panel b) at t0 were too small (1.7% and 0.2%, respectively) to detect meaningful changes (FDR-corrected (5%) ANOVAs with non-hypothesis components of variance as fixed effects).

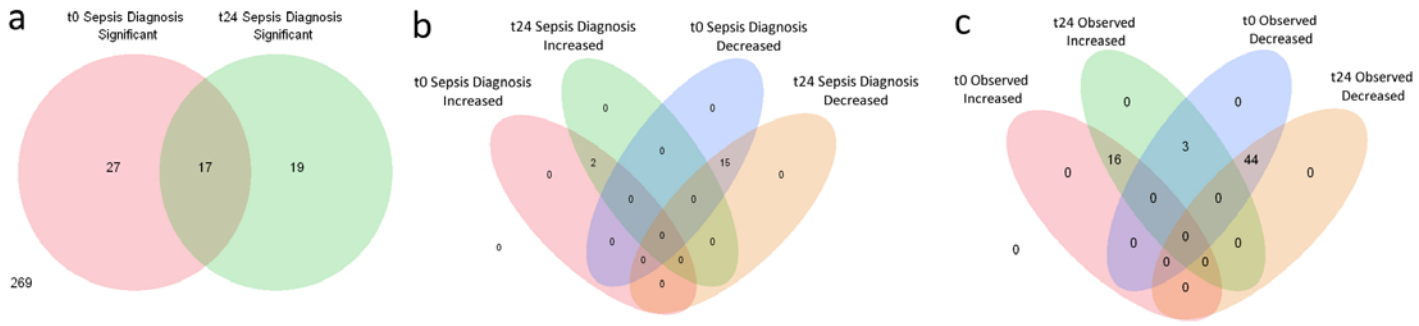


Figure S4. Venn diagrams of metabolites in sepsis diagnosis. Significant differences (weighted ANOVA, 5% FDR) in plasma metabolite levels between SIRS+ control patients and sepsis survivors at t_0 and t_{24} (a), concordance of direction of change of significantly altered metabolites (b), and concordance of direction of change of metabolites exhibiting significant differences at one of the time points (c).

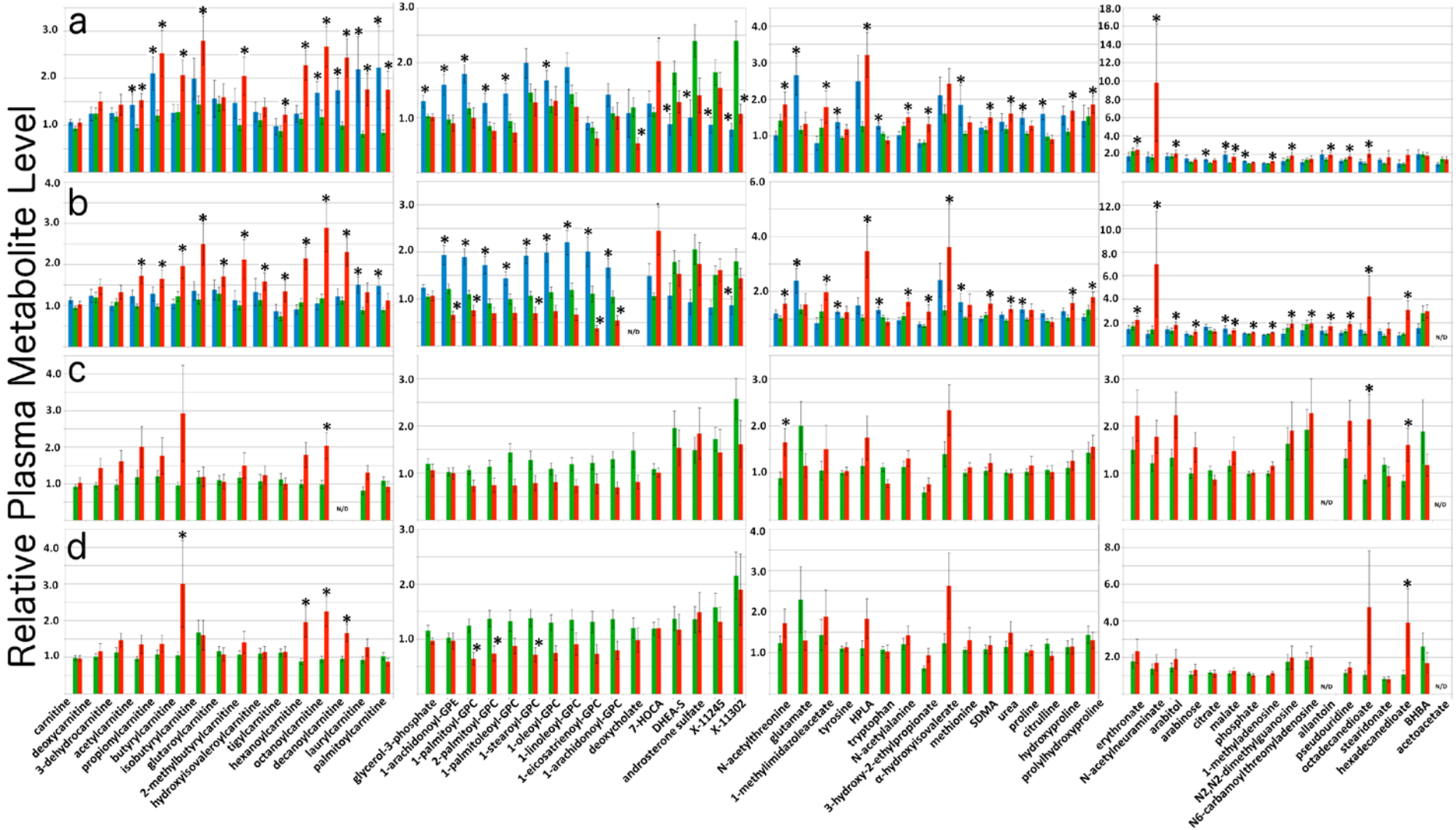

Relative Plasma Metabolite Level
a
b
c
d
carnitine
deoxycarnitine
3-dehydrocarnitine
acetylcarnitine
propionylcarnitine
butyrylcarnitine
isobutyrylcarnitine
glutaroylcarnitine
2-methylbutyrylcarnitine
hydroxyisovalerylcarnitine
tigylcarnitine
hexanoylcarnitine
octanoylcarnitine
decanoylcarnitine
laurylcarnitine
palmitoylcarnitine
glycerol-3-phosphate
1-arachidonoyl-GPE
1-palmitoyl-GPC
2-palmitoyl-GPC
1-palmitoleoyl-GPC
1-stearoyl-GPC
1-oleoyl-GPC
1-linoleoyl-GPC
1-eicosatrienoyl-GPC
1-arachidonoyl-GPC
deoxycholate
7-HOCA
DHEA-S
androsterone sulfate
X-11245
X-11302
N-acetylthreonine
glutamate
1-methylimidazoleacetate
tyrosine
HPLA
tryptophan
N-acetylalanine
3-hydroxy-2-ethylpropionate
α-hydroxyisovalerate
methionine
SDMA
urea
proline
citrulline
hydroxyproline
prolylhydroxyproline
erythronate
N-acetylneuraminate
arabitol
arabinose
citrate
malate
phosphate
1-methyladenosine
N2,N2-dimethylguanosine
N6-carbamoylthreonyladenosine
allantoin
pseudouridine
octadecanedioate
stearidonate
hexadecanedioate
BHBA
acetoacetate
N/D

Figure S5. Bar graphs of plasma metabolite levels at t_0, t_{24} and in validation patients at t_0 and t_{24} Plasma protein-metabolite correlations for (**a)** t_0**, (b)** t_{24}**, (c)** Vt_0, **(d)** Vt_{24}. Y-axis displays average scaled plasma metabolite concentrations. Error bars are SEM. Columns represent controls (SIRS+; blue), sepsis survivors (green) and sepsis nonsurvivor (red). Asterisks indicate significant differences from sepsis survivors (weighted ANOVA with 5% FDR (**a**,**b**), 25% FDR (**c**) or 15% FDR (**d**)). All but the relevant negatives (carnitine, deoxycarnitine, 3-dehydrocarnitine, 3-dehydrocarntine, steridonate, 3-hybroxybutyrate (BHBA) and acetoacetate) were significant. Abbreviations: Glycerophosphethanolamine (-GPE), glycerolphosphocholine (-GPC), 7-α-hydroxy-3-oxo-4-cholestenoate (7-HOCA), dehydroepiandrosterone sulfate (DHEA-S), 3-[4-hydroxyphenyl]lactate (HPLA), symmetric dimethylarginine (SDMA), unannotated disulfated steroids (X-11245 and X-11301).

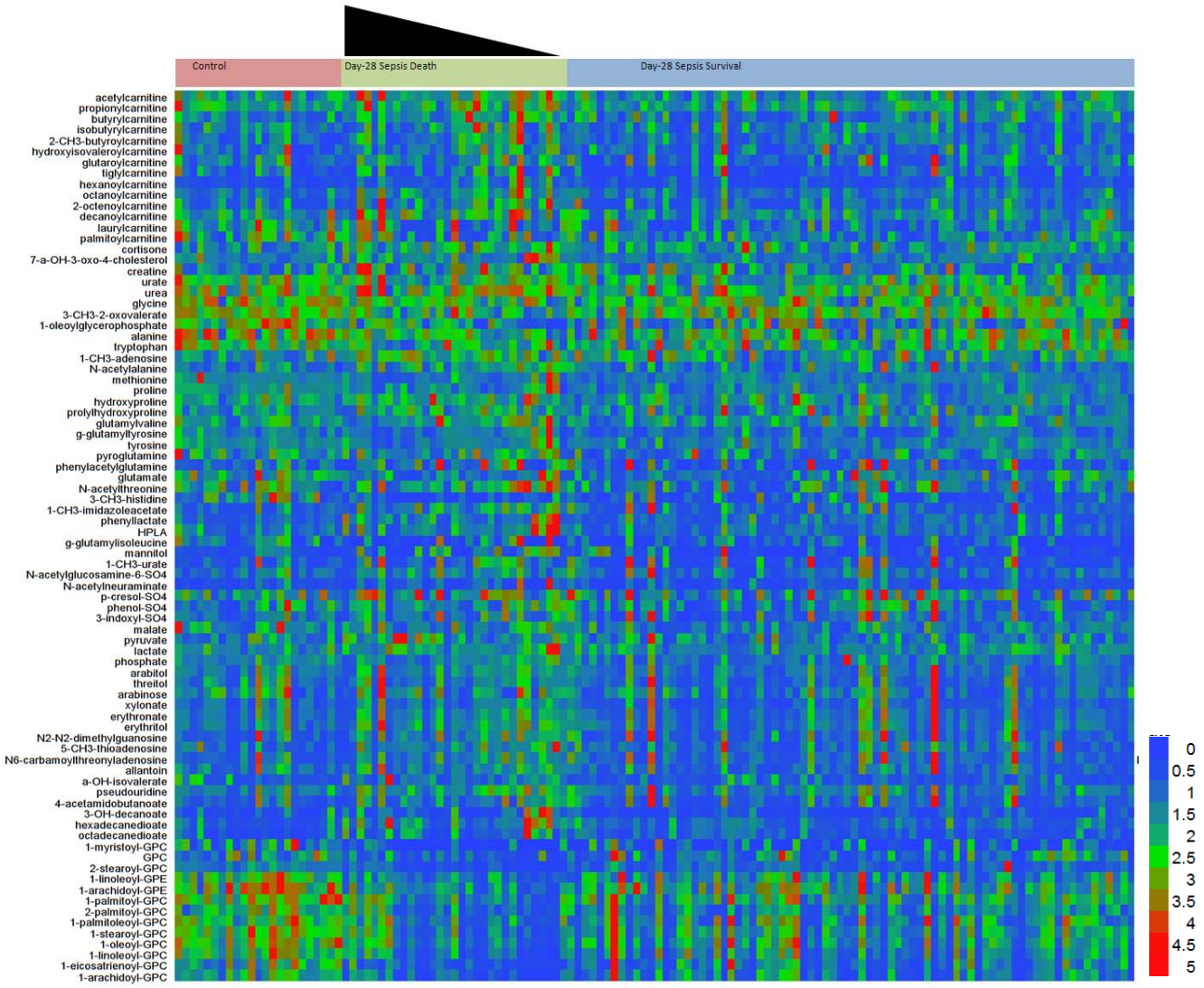


Figure S6. Metabolomics cell plot. Comparison of annotated plasma metabolite levels at t_{24} in 132 discovery subjects (represented by columns). Individuals who died were ordered by days-to-death (decreasing from left to right as indicated by the black triangle). Rows show 82 host metabolites with statistically significant differences between groups (stratified ANOVA, $p<0.05$). Colors indicate log-transformed standardized values.

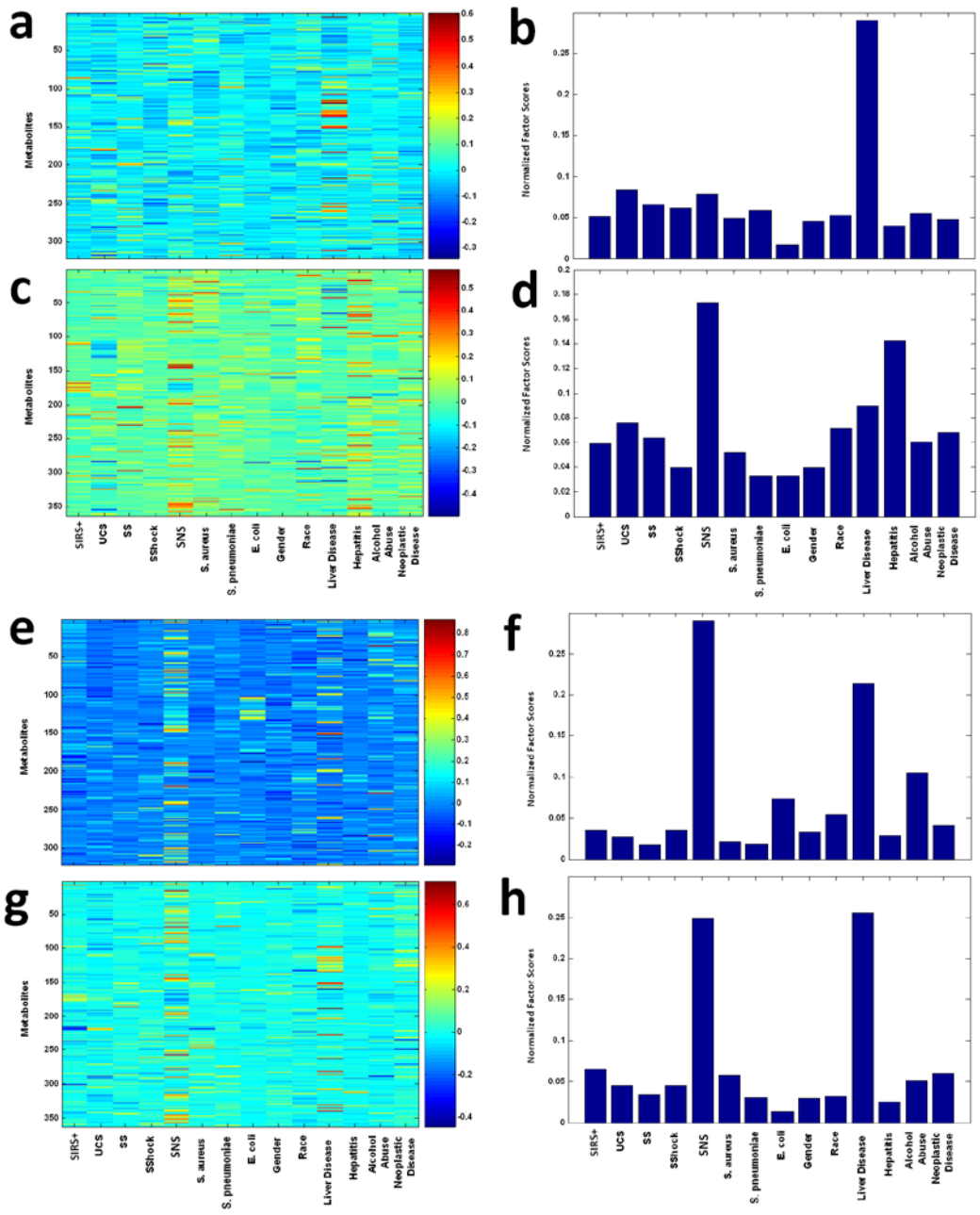


Figure S7. B-matrices of Bayesian factor analysis and the normalized factors scores. B-matrices (**a,c,e,g**); normalized factor score (**b,d,f,h**). SIRS+ outcomes, and clinical parameters in log-transformed plasma metabolites. Sepsis outcomes [SIRS+, uncomplicated sepsis (UCS), sepsis survivor (SS), septic shock (SShock) and sepsis nonsurvivor (SNS)] and clinical parameters were fit to a normal distribution with mean of 0 and standard deviation of 1. Normal renal function (eGFR >74 mL/min) t_0 (**a** and **b;** n = 44) and t_{24} (**c** and **d**; n = 36); and poor renal function (eGFR 32-74 mL/min; t_0 (**e** and **f;** n = 56) and t_{24} (**g** and **h**; n = 53). Individual metabolite factor score ≥ 0.1 or ≤ -0.1 was considered significant.

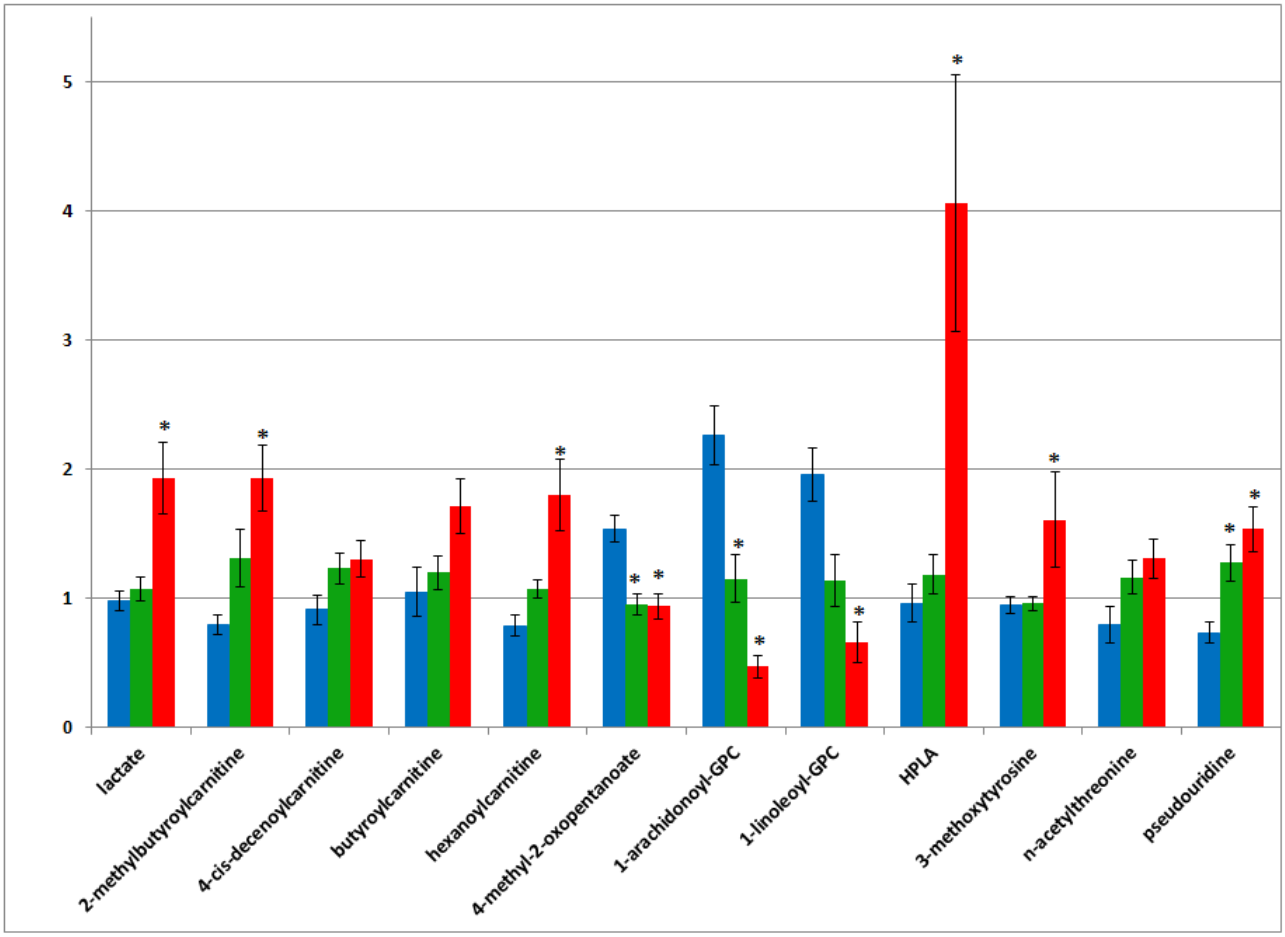


Figure S8. Bar graphs of plasma metabolite levels of the RoCI sepsis cohort. Y-axis displays average scaled plasma metabolite concentrations. Error bars are SEM. Columns represent controls (SIRS+; blue), sepsis survivors (green) and sepsis nonsurvivor (red). Asterisks indicate significant differences from sepsis survivors (ANOVA with 5% FDR. Abbreviations: Glycerophosphethanolamine (-GPE), glycerolphosphocholine (-GPC), 3-[4-hydroxyphenyl]lactate (HPLA).

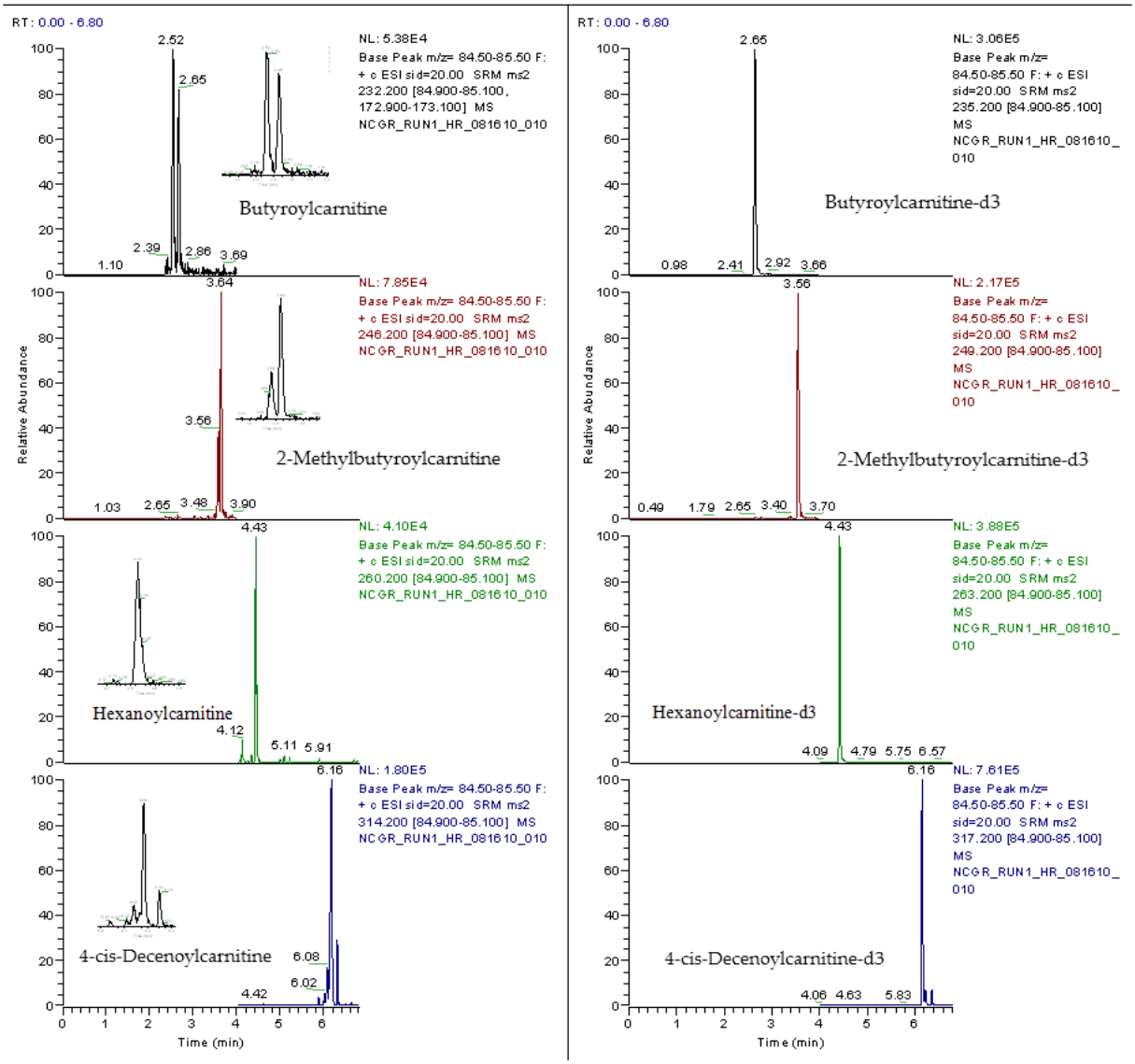


Figure S9. Representative chromatograms of quantitative LC-MS-MS measurement. Butyroylcarnitine, 2-Methylbutyroylcarnitine, Hexanoylcarnitine and 4-*cis*-Decenoylcarnitine (X-11421) in a subject plasma sample.

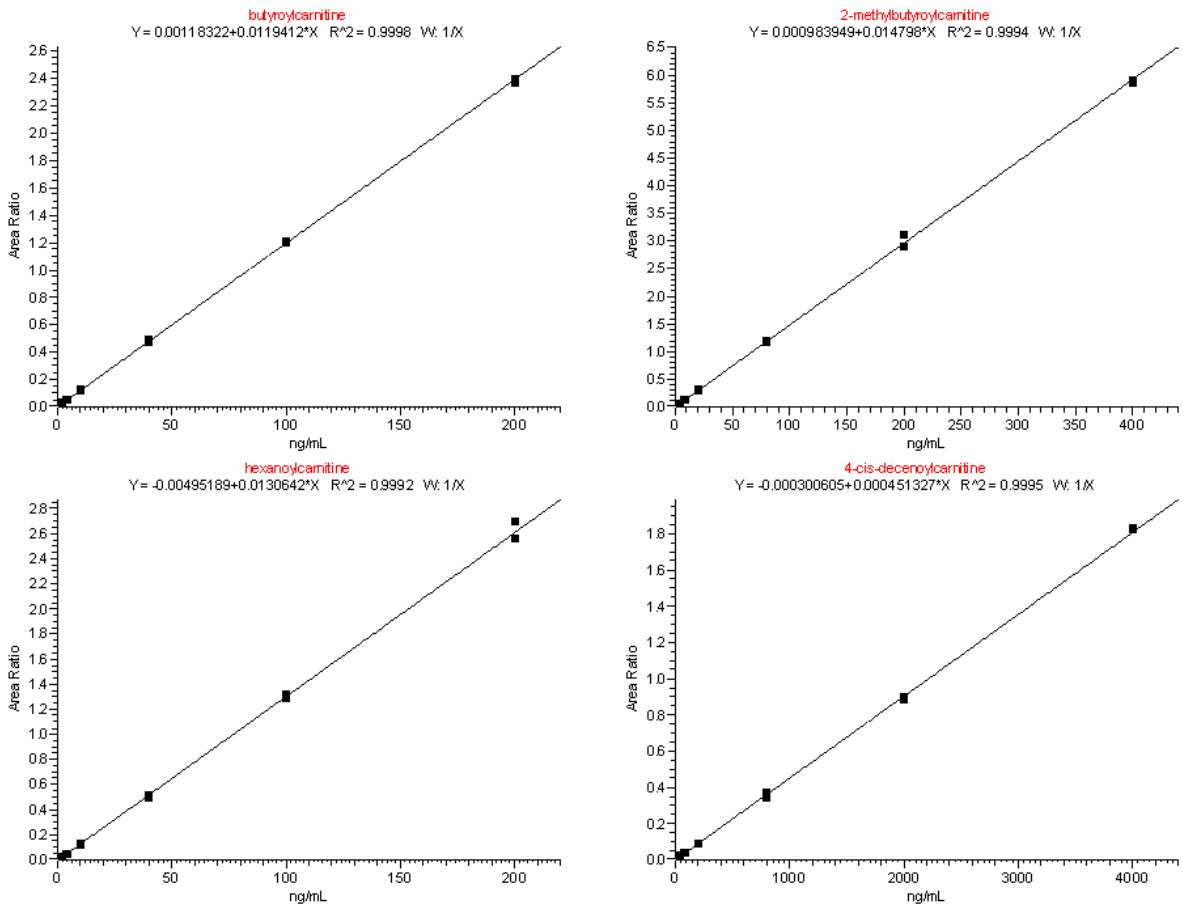


Figure S10. Representative calibration curves of quantitative LC-MS-MS measurement. Butyroylcarnitine, 2-Methylbutyroylcarnitine, Hexanoylcarnitine and 4-*cis*-Decenoylcarnitine (X-11421).

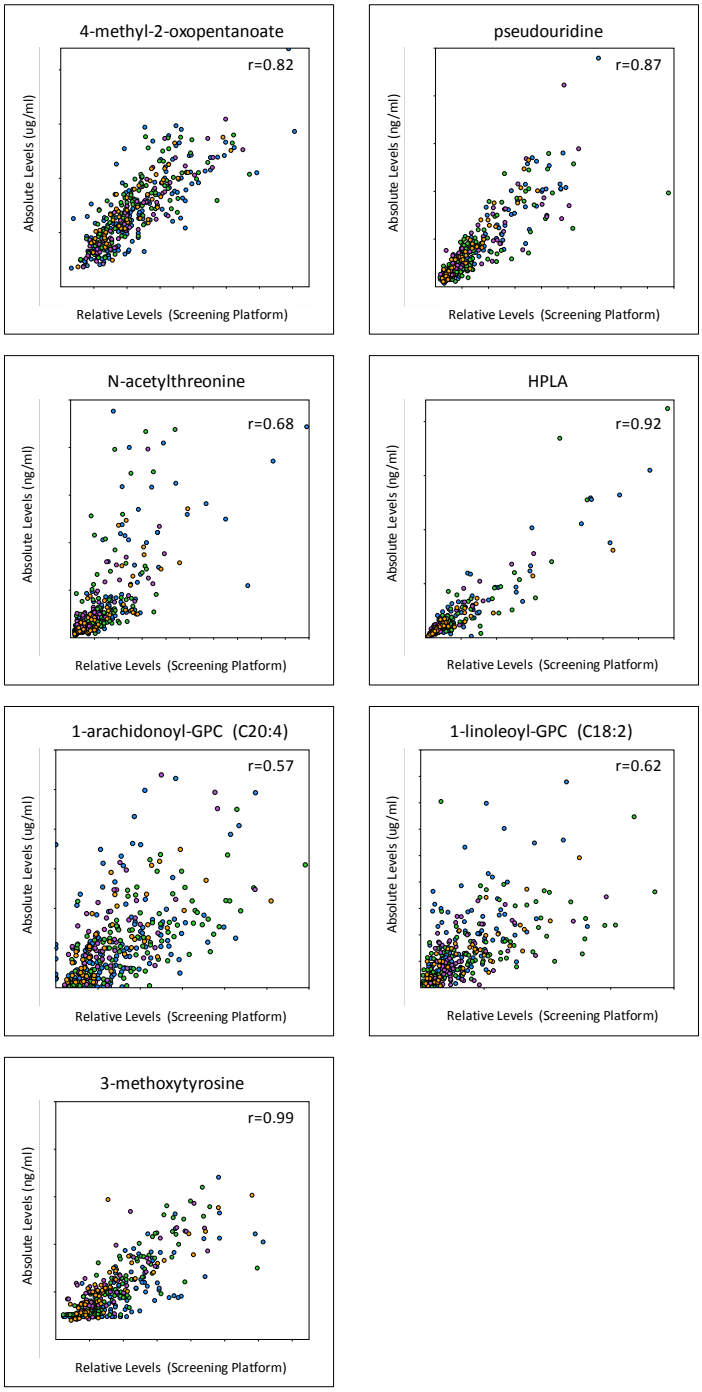


Figure S11: Correlation plots of semi-quantitative screening data (x-axis) and quantitative targeted data (y-axis).

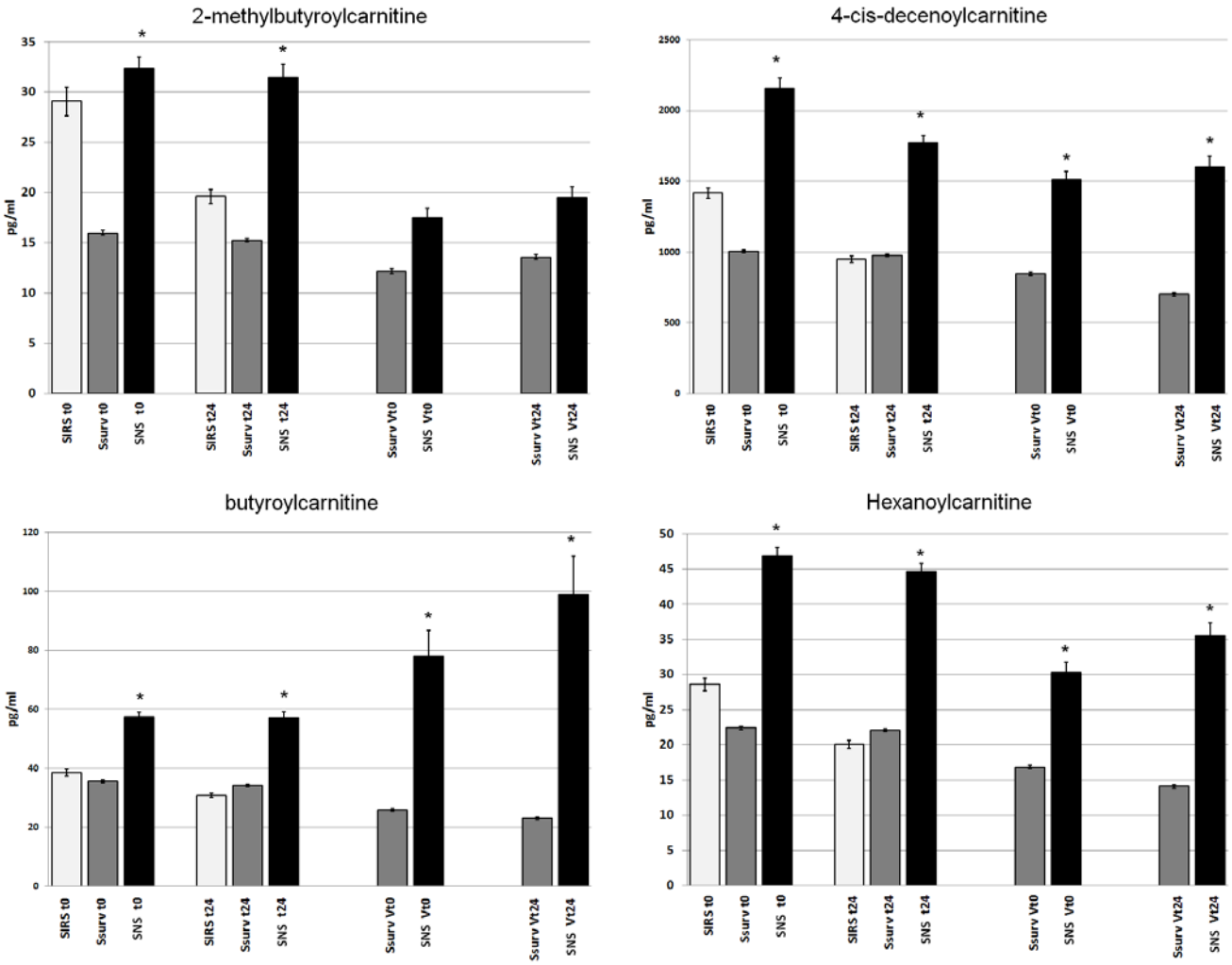
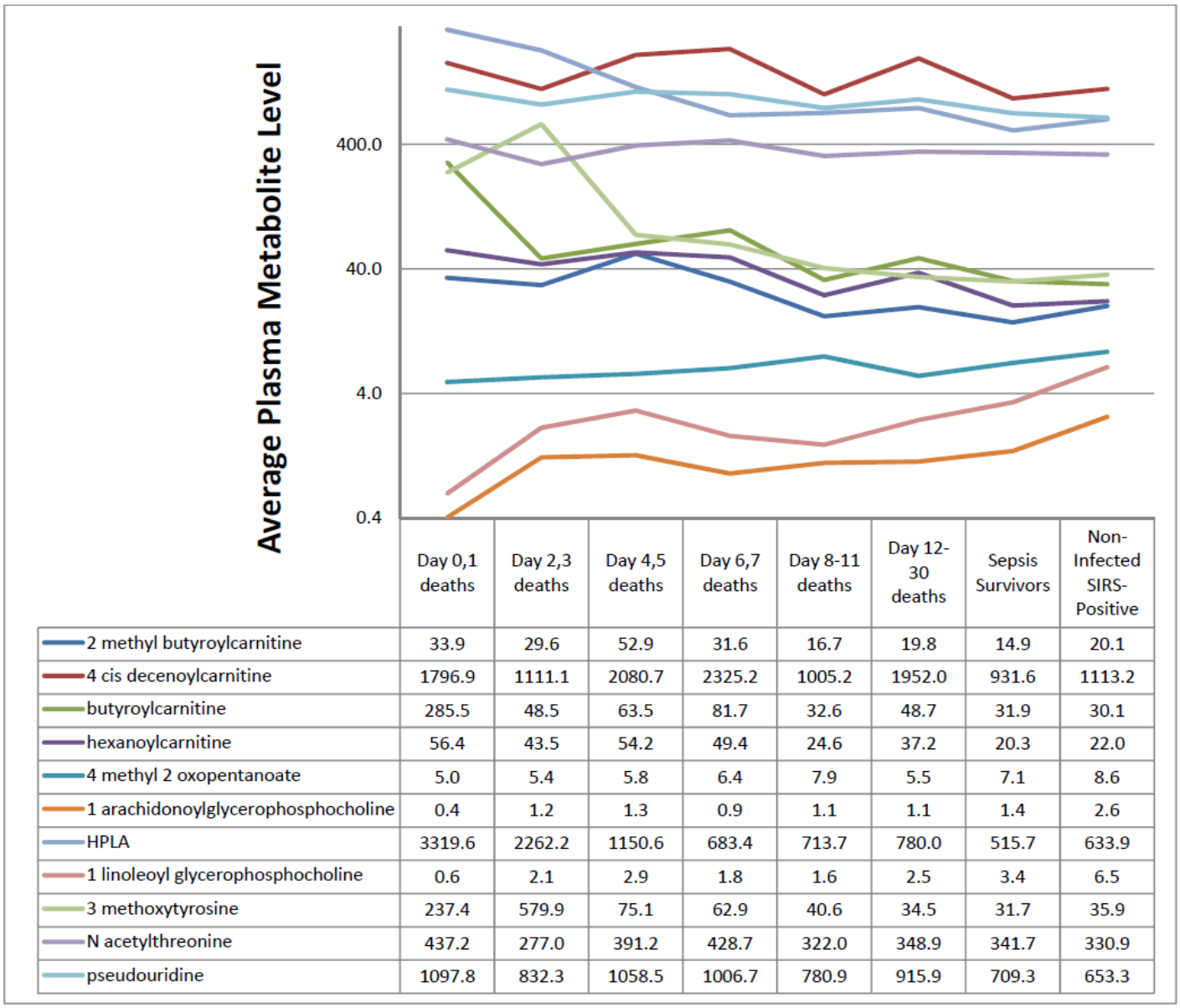


Figure S12. Bar graphs of plasma levels by targeted, quantitative MS-assays of butyroylcarnitine, 2-methylbutyroylcarnitine, hexanoylcarnitine and 4-*cis*-decenoylcarnitine. t_0, t_{24} and in validation patients at Vt_0 and Vt_{24}. Y-axis displays average plasma metabolite concentrations. Error bars are SEM. Columns represent SIRS+ controls (white), sepsis survivors (grey) sepsis non survivor (black). * $p < 0.05$.



	Day 0,1 deaths	Day 2,3 deaths	Day 4,5 deaths	Day 6,7 deaths	Day 8-11 deaths	Day 12-30 deaths	Sepsis Survivors	Non-Infected SIRS-Positive
2 methyl butyroylcarnitine	33.9	29.6	52.9	31.6	16.7	19.8	14.9	20.1
4 cis decenoylcarnitine	1796.9	1111.1	2080.7	2325.2	1005.2	1952.0	931.6	1113.2
butyroylcarnitine	285.5	48.5	63.5	81.7	32.6	48.7	31.9	30.1
hexanoylcarnitine	56.4	43.5	54.2	49.4	24.6	37.2	20.3	22.0
4 methyl 2 oxopentanoate	5.0	5.4	5.8	6.4	7.9	5.5	7.1	8.6
1 arachidonoylglycerophosphocholine	0.4	1.2	1.3	0.9	1.1	1.1	1.4	2.6
HPLA	3319.6	2262.2	1150.6	683.4	713.7	780.0	515.7	633.9
1 linoleoyl glycerophosphocholine	0.6	2.1	2.9	1.8	1.6	2.5	3.4	6.5
3 methoxytyrosine	237.4	579.9	75.1	62.9	40.6	34.5	31.7	35.9
N acetylthreonine	437.2	277.0	391.2	428.7	322.0	348.9	341.7	330.9
pseudouridine	1097.8	832.3	1058.5	1006.7	780.9	915.9	709.3	653.3

Figure S13. Plasma levels of eleven metabolites in all patients showing relationships between time to death and metabolite values. Plasma metabolite concentrations were determined by targeted, quantitative MS-assays and values are in pg/ml.

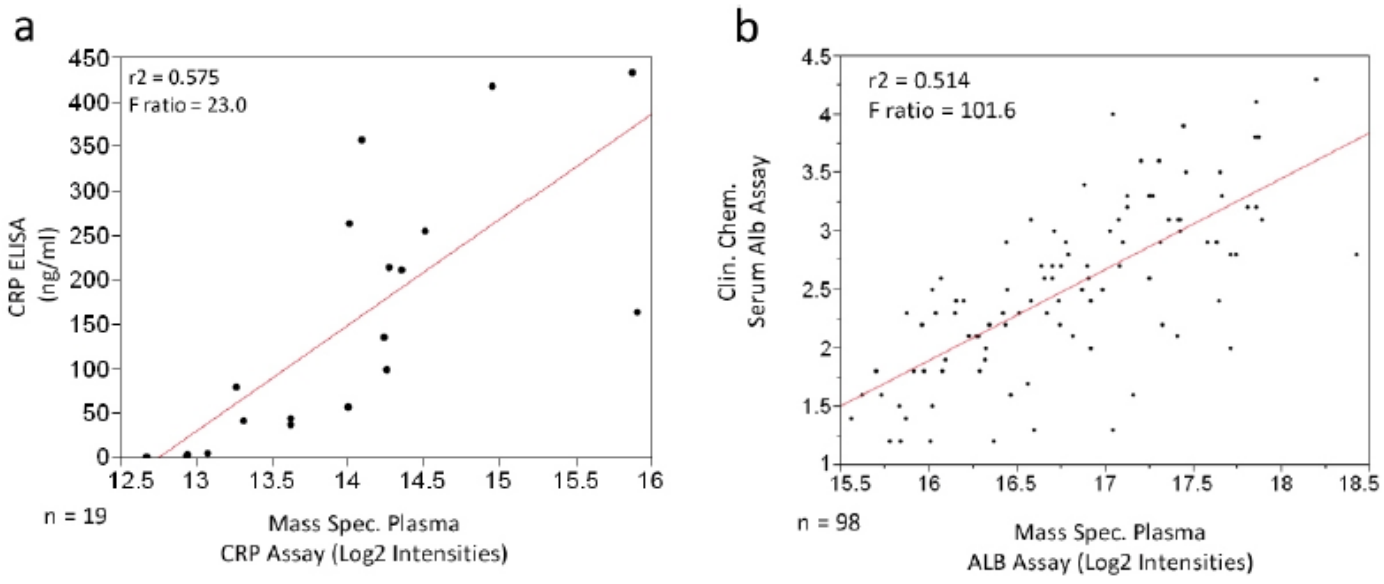


Figure S14|Comparison of C reactive protein (CRP), and albumin (ALB) levels by serum immunoassay (ELISA) and plasma mass spectrometry in 19 and 98 patients, respectively. MS values are log transformed, normalized, areas-under-the-curve of ion chromatograms after background noise removal. Albumin immunoassay values are in mg/dL.

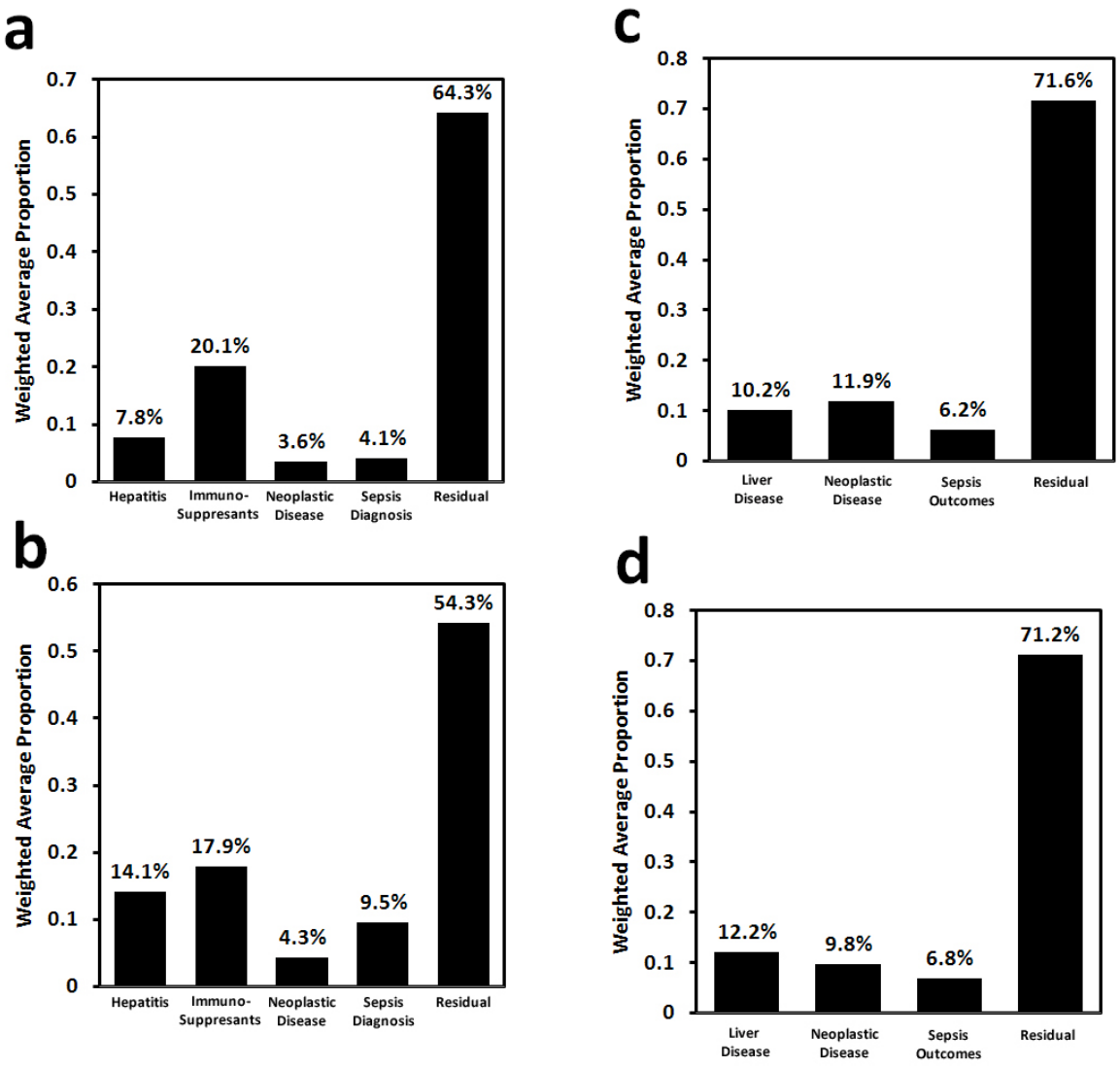


Figure S15. Principle components of variance of plasma proteins in sepsis diagnosis and sepsis outcomes. Principle components of variance (left panels) in sepsis diagnosis (SIRS controls with sepsis survivors) at t_0 **(a)** and t_{24} **(b)** and sepsis outcome (sepsis survivors and sepsis nonsurvivor) at t_0 **(c)** and t_{24} **(d).** Sepsis Diagnosis: t_0 & t24, FDR = 10%. Sepsis Outcomes: t_0, FDR = 5%; t_{24}, FDR = 10%.

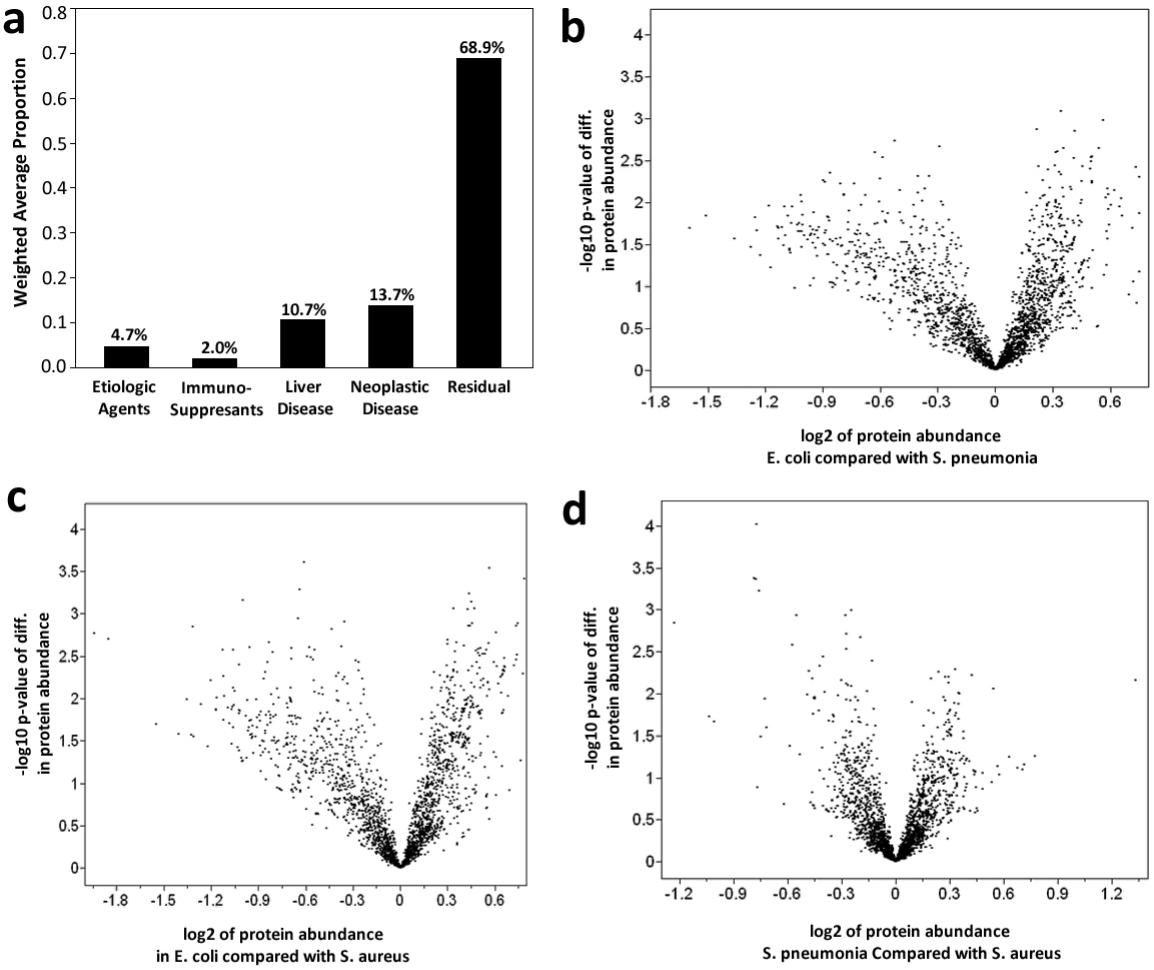
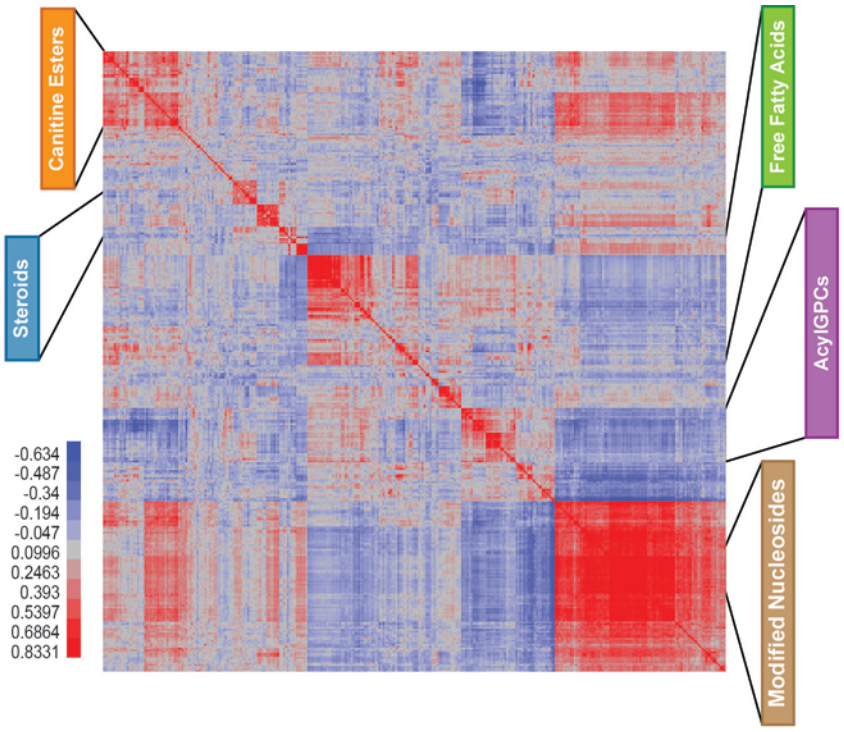


Figure S16: Principal components and Volcano plots of plasma protein variation associated with etiologic agents. **a)** Principal components of variance decomposition (with Pearson product-moment correlation) for etiologic agents and clinical parameters. Volcano plots of FDR corrected (5%) ANOVAs (with non-hypothesis components of variance as fixed effects) indicate no significant differences between host proteomic response to bacteremia with *E. coli* (n=16) and *S. pneumoniae*, n=31, **b**), *E. coli* and *S. aureus* (n=27, **c**), and *S. pneumoniae* and *S. aureus* (**d**).



Canitine Esters

Acetylcarnitine
X-12465
Butyroylcarnitine
Decanoylcarnitine
Octanoylcarnitine
Hexanoylcarnitine
HPLA
Malate
Xanthine
β-hydroxyisovalerate
Isovalerylcarnitine
Phenylalanine
Propionylcarnitine
X-11381
Aspartate
Glutamate
Lysine
Ornitihine
Serine
X-12051
X-12422
X-12660
Choline
Cysteine
Phosphate
Scyllo-inositol
3-dehydrocarnitine
Urate
X-10439
Deoxycarnitine
X-12458
X-04595
X-11421
X-11521
1-methoxyadenosine
3-hydroxy-2-ethylpropionate
Hydroxyisovaleroylcarnitine
2-methylbutyroylcarnitine
Isobutyroylcarnitine
tigylcarnitine

Steroids

Cholesterol
Glycerol-3-phosphate
X-030904
X-06346
X-05907
X-10395
X-08402
X-10510
X-10744
X-10500
Androsterone sulfate
Epiandrosterone sulfate
X-11273
DHEAS
X-11302
X-11244
X-11443
X-11245
X-11445

Free Fatty Acids

Adrenate
Docosahexaenoate
Docosapentaenoate
Dihomolinoleate
Palmitate
10-heptadecenoate
Eicosenoate
10-nonadecenoate
Oleate
Linolenate
Margate
Stearate
Laurate
Myristate
Myristoleate
Palmitoleate
X-12442
AHB
2-hydroxystereate
7-HOCA
2-hydroxypalmitate
5-dodecenoate
X-11809
X-12990
Biliverdin
X-01327
X-11793
Arachidonate
Dihomolinolenate
Caprate
Caprylate
Eicosapentaenoate
Steridonate

AcylGPCs

1-arichdoyl-GPC
1-linoleoyl-GPC
1-oleoyl-GPC
1-eicostrienoyl-GPC
1-palmitoleoyl-GPC
1-palmioyl-GPC
1-stearoyl-GPC
2-palmitoyl-GPC
1-archidoyl-GPC
X-12644
Uridine
1-arachidoyl-GPI
1-oleoyl-GPE
X-11317
X-12038
X-11550

Modified Nucleosides

Arabitol
Erythronate
Erythritol
Pseudouridine
X-03951
X-11423
X-04507
4-acetamidobutanoate
X-11687
N2,N2-dimethylguanosine
N6-carbamoylthreonyladenosine
1-methylimidazoleacetate

Figure S17. Metabolomic cross correlation analysis with list of significant metabolite clusters. Heatmap of hierarchical clustering of pairwise Pearson product-moment correlations of 332 log-transformed, annotated plasma metabolites in 132 subjects at t_0 compared to matched subjects at t_{24}. Positive correlations are red; inverse correlations are blue. Unannotated GCMS identified biochemicals were excluded from the analysis. Metabolite lists are the cluster order from top to bottom as determined by the hierarchical cluster analysis.

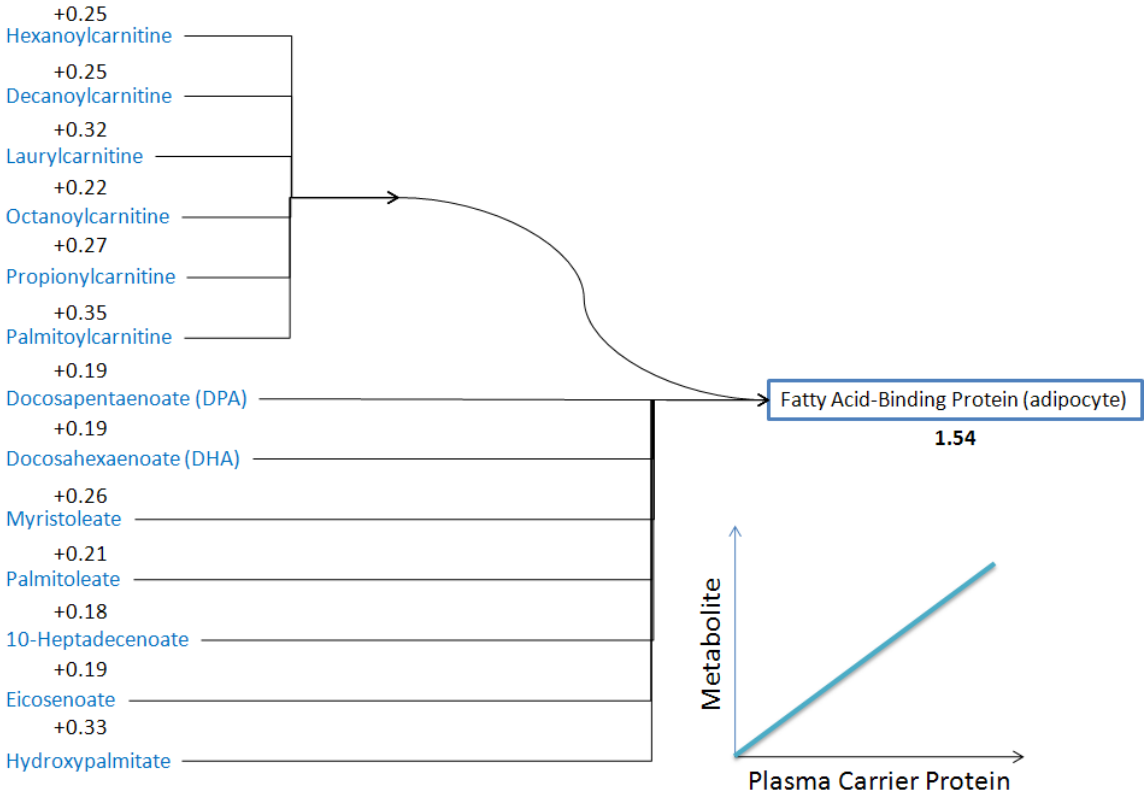


Figure S18. Plasma metabolite correlations with Fatty Acid Binding Protein (FABP4, adipocyte), a plasma carrier protein for carnitine esters and free fatty acids. Positive correlation coefficients of plasma metabolite values with plasma FABP4 values are indicated by black integers. Global cross correlation analysis results determined from all relevant t_0 metabolites (336 biochemicals) correlated with t_0 proteins (165 proteins) in 150 derivation patient samples. The analysis included lower confidence protein acyl-coA synthetase, mitochondrial 6 and single time point high confidence proteins SDHD, and fatty acid binding protein 4).

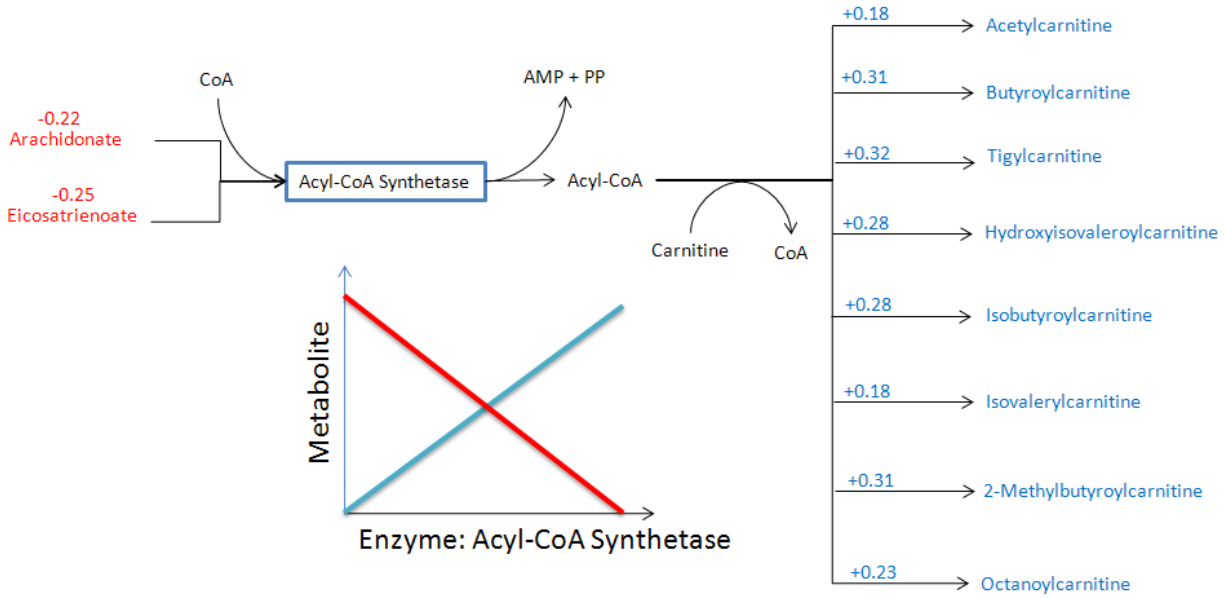


Figure S19. Selected plasma metabolite correlations with Acyl-CoA synthase M6. ACSM6 was upregulated 1.33-fold in sepsis nonsurvivors compared with sepsis survival. ACSM6 attaches FA to Coenzyme A for β-oxidation. Esterification of carnitine commits fatty acids to β-oxidation. Correlation coefficients of plasma metabolite values with ACSM6 values are indicated by red (inverse correlations) or blue (positive correlations) integers. Correlation results determined from t_0 metabolomics versus t_0 proteomics global cross correlation analysis.

Characteristic	Category	Definition
a) Infection	1 - Confirmed	Infection, clinical evidence of infection, no evidence of non-infectious process, etiologic agent identified
	2 - Probable	Infection, clinical evidence of infection, no evidence of non-infectious process, etiologic agent not identified
	3 - Unknown	Indeterminate, infection possible
	4 – Negative	No infection, no evidence of infection
	5 – Negative	No infection, evidence of non-infectious disease process
b) Etiologic agent	1 – Definite	At least a single positive blood culture in a sample drawn within 72 hours of enrollment for *Staphylococcus aureus*, Gram-negative bacteria, *Candida spp*. or *Streptococcus pneumoniae.*
		OR two or more positive blood or CSF cultures in samples drawn within 72 hours of enrollment for any other pathogen
		OR Positive urinary pneumococcal antigen in a sample drawn within 72 hours of enrollment BUT NOT any positive culture (blood, sputum, urine, etc.) for a sample(s) drawn within 72 hours of enrollment for a second or more organism(s).
		OR Identification of any pathogen by culture, special staining, PCR, or antigen testing of any pathogen from any sterile body site (e.g., pleural fluid/empyema, cerebrospinal fluid, synovial fluid, bone biopsy, heart valve, deep tissue abscess; biliary fluid)
		OR Identification of *Pneumocystis Carinii* in a pulmonary specimen from any patients with AIDS (absolute CD4≤ 200)
		OR seroconversion (RMSF, Ehrlichia, Bartonella, etc).
	2 - Probable	At least a single positive blood or CSF culture(s) for a sample(s) drawn within 72 hours of enrollment for *S. aureus*, Gram-negative bacteria, *Candida spp.*, or *S. pneumoniae*.
		OR two or more positive blood or CSF cultures in samples drawn within 72 hours of enrollment for any other pathogen
		OR positive urinary pneumococcal antigen in a sample drawn within 72 hours of enrollment AND at least one positive culture (blood, sputum, urine etc) in a sample drawn within 72 hours of enrollment for a second or more organism(s).
	3 – Complex etiology	NO positive blood or CSF culture(s) for a sample(s) drawn within 72 hours of enrollment for *S. aureus*, Gram-negative bacteria, *Candida spp*., or *S. pneumoniae*.
		AND NO two or more positive blood or CSF cultures in samples drawn within 72 hours of enrollment for any other pathogen
		AND NO positive urinary pneumococcal antigen in a sample drawn within 72 hours of enrollment
		AND another positive culture(s) (sputum, urine, broncho-alveolar lavage, skin, wound etc) in a sample(s) drawn within 72 hours of enrollment for one or more organism(s).
	4 – Not known	NO positive culture for any sample(s) drawn within 72 hours of enrollment for any organism(s).

Table S1. Clinical Adjudication Guidelines

Estimated Glomerular Filtration Rate	N[1]	Non-infected SIRS-Positive	Uncomplicated Sepsis	Severe Sepsis	Septic Shock	Sepsis nonsurvivor
>74 ml/min	45	13.3%	26.7%	15.6%	24.4%	20%
32-74 ml/min	54	27.8%	20.4%	14.8%	16.7%	20%
0-31 ml/min	28	17.9%	3.6%	10.7%	35.7%	32.1%
Chronic hemodialysis	22	13.6%	13.6%	36.4%	27.3%	9.1%

[1]One patient did not have a recorded eGFR and was excluded from the analysis.

Table S2. Partial overlap of eGFR group and Sepsis group membership.

Table S3. Plasma Metabolite concentrations in non-infected SIRS, sepsis survivors and sepsis nonsurvivors. Average, log-transformed, scaled, plasma metabolite concentrations. SIRS-positive patients, sepsis survivors and nonsurviving sepsis at t0 and t24 in discovery and replication cohorts, showing significant differences from sepsis survivors by weighted ANOVAs (denoted *) with 5% FDR (t0 and t24 derivation samples), 25% FDR (t0 validation) or 15% FDR (t24 validation samples).

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
1,5-anhydroglucitol	0.95 ± 0.11	0.90 ± 0.06	0.83 ± 0.08	1.06 ± 0.10	0.92 ± 0.07	0.78 ± 0.08	0.73 ± 0.10	1.07 ± 0.13*	0.93 ± 0.13	1.14 ± 0.17	LC/MS neg	C07326	HMDB02712
1,6-anhydroglucose	1.34 ± 0.47	1.21 ± 0.27	0.97 ± 0.20	N/D	N/D	N/D	1.36 ± 0.33	1.75 ± 0.51	1.32 ± 0.36	1.24 ± 0.37	GC/MS		HMDB00640
10-heptadecenoate	1.24 ± 0.13	1.12 ± 0.08	1.21 ± 0.10	1.15 ± 0.08	0.98 ± 0.04	1.17 ± 0.10	0.99 ± 0.08	1.02 ± 0.12	1.01 ± 0.11	1.10 ± 0.15	LC/MS neg		
10-nonadecenoate	1.25 ± 0.13	1.05 ± 0.08	1.34 ± 0.16	1.25 ± 0.17	1.03 ± 0.06	1.47 ± 0.19	0.95 ± 0.08	1.04 ± 0.09	1.04 ± 0.12	1.30 ± 0.24	LC/MS neg		
1-arachidoyl-GPC	1.42 ± 0.21	1.08 ± 0.11	1.03 ± 0.24	1.66 ± 0.20*	1.05 ± 0.13	0.55 ± 0.10*	1.29 ± 0.17	0.69 ± 0.12	1.36 ± 0.17	0.79 ± 0.17	LC/MS pos	(C05208)	
1-arachidoyl-GPE	1.59 ± 0.19*	0.96 ± 0.08	0.90 ± 0.15	1.93 ± 0.20*	1.22 ± 0.10	0.66 ± 0.08*	1.02 ± 0.08	0.99 ± 0.13	1.02 ± 0.09	0.97 ± 0.15	LC/MS neg		
1-arachidoyl-GPI	1.10 ± 0.09	1.04 ± 0.07	0.93 ± 0.14	1.25 ± 0.11	0.99 ± 0.06	0.83 ± 0.07	1.26 ± 0.14	1.11 ± 0.18	1.13 ± 0.08	1.06 ± 0.13	LC/MS neg	(C03819)	
1-docosahexaenoyl-GPC	N/D	N/D	N/D	N/D	N/D	N/D	1.44 ± 0.26	0.83 ± 0.16	1.32 ± 0.14	1.02 ± 0.15	LC/MS pos		
1-eicosadienoyl-GPC	N/D	N/D	N/D	N/D	N/D	N/D	1.09 ± 0.14	0.76 ± 0.12	0.90 ± 0.09	0.70 ± 0.09	LC/MS pos		
1-eicosatrienoyl-GPC	0.90 ± 0.12	0.82 ± 0.09	0.62 ± 0.12	2.00 ± 0.31*	1.11 ± 0.17	0.38 ± 0.06*	1.22 ± 0.14	0.78 ± 0.21	1.31 ± 0.19	0.73 ± 0.17	LC/MS pos		
1-heptadecanoyl-GPC	N/D	N/D	N/D	N/D	N/D	N/D	1.16 ± 0.17	0.72 ± 0.15	0.93 ± 0.12	0.68 ± 0.12	LC/MS pos		
1-linoleoyl-GPC	1.92 ± 0.27	1.43 ± 0.16	1.20 ± 0.25	2.20 ± 0.26*	1.19 ± 0.14	0.67 ± 0.12	1.19 ± 0.14	0.73 ± 0.13	1.35 ± 0.18	0.91 ± 0.20	LC/MS pos	C04100	
1-linoleoyl-GPE	N/D	N/D	N/D	2.23 ± 0.29*	1.40 ± 0.17	0.73 ± 0.10*	N/D	N/D	1.18 ± 0.16	1.04 ± 0.18	LC/MS neg		
1-linoleoyl-GPI	N/D	N/D	N/D	N/D	N/D	N/D	0.88 ± 0.10	0.95 ± 0.17	N/D	N/D	LC/MS neg	(C03819)	
1-methyladenosine	1.01 ± 0.07	0.98 ± 0.03	1.18 ± 0.07*	0.95 ± 0.05	1.04 ± 0.03	1.18 ± 0.05*	0.99 ± 0.05	1.16 ± 0.08	0.99 ± 0.04	1.13 ± 0.09	LC/MS pos	C02494	HMDB03331
1-methylimidazoleacetate	0.80 ± 0.19	1.23 ± 0.21	1.79 ± 0.44*	0.84 ± 0.20	1.27 ± 0.23	1.97 ± 0.28*	1.05 ± 0.20	1.51 ± 0.50	1.43 ± 0.37	1.87 ± 0.66	LC/MS pos	C05828	HMDB02820
1-methylurate	N/D	N/D	N/D	0.84 ± 0.20	1.22 ± 0.19	1.49 ± 0.25*	1.16 ± 0.20	1.26 ± 0.36	1.09 ± 0.23	1.09 ± 0.34	LC/MS pos		HMDB03099
1-myristoyl-GPC	N/D	N/D	N/D	1.10 ± 0.13*	0.76 ± 0.05	0.59 ± 0.05	1.14 ± 0.13	0.68 ± 0.17	N/D	N/D	LC/MS pos		
1-oleoylglycerol	N/D	N/D	N/D	N/D	N/D	N/D	0.75 ± 0.10	0.80 ± 0.31	1.20 ± 0.23	1.14 ± 0.40	LC/MS pos	(C01885)	
1-oleoylglycerophosphate	N/D	N/D	N/D	1.62 ± 0.16*	1.00 ± 0.10	0.80 ± 0.12	N/D	N/D	1.12 ± 0.10	0.90 ± 0.15	LC/MS neg		HMDB00443
1-oleoyl-GPC	1.67 ± 0.18*	1.21 ± 0.12	1.30 ± 0.26	1.98 ± 0.20*	1.14 ± 0.11	0.74 ± 0.12	1.09 ± 0.12	0.81 ± 0.15	1.30 ± 0.14	0.75 ± 0.13	LC/MS pos	C03916	HMDB02815
1-oleoyl-GPE	1.06 ± 0.15	0.93 ± 0.08	0.87 ± 0.15	1.52 ± 0.25	1.07 ± 0.17	0.64 ± 0.09	1.14 ± 0.13	1.05 ± 0.15	1.24 ± 0.14	1.05 ± 0.16	LC/MS neg		
1-palmitoleoyl-GPC	1.43 ± 0.20*	0.94 ± 0.12	0.73 ± 0.16	1.44 ± 0.14*	1.00 ± 0.11	0.70 ± 0.12	1.44 ± 0.19	0.74 ± 0.13	1.33 ± 0.19	0.88 ± 0.14	LC/MS pos		
1-palmitoleoyl-GPI	N/D	N/D	N/D	N/D	N/D	N/D	1.26 ± 0.22	0.91 ± 0.17	N/D	N/D	LC/MS neg	(C03819)	
1-palmitoylglycerol	1.18 ± 0.09	1.19 ± 0.07	1.21 ± 0.19	2.82 ± 1.51	1.25 ± 0.16	0.71 ± 0.08	N/D	N/D	N/D	N/D	GC/MS		
1-palmitoyl-GPC	1.80 ± 0.17*	1.17 ± 0.09	0.99 ± 0.18	1.89 ± 0.17*	1.10 ± 0.08	0.76 ± 0.11*	1.07 ± 0.09	0.73 ± 0.12	1.25 ± 0.12	0.64 ± 0.11*	LC/MS pos	C04102	
1-palmitoyl-GPE	N/D	N/D	N/D	N/D	N/D	N/D	1.17 ± 0.12	0.95 ± 0.12	1.38 ± 0.15	1.16 ± 0.20	LC/MS neg		
1-palmitoyl-GPI	N/D	N/D	N/D	N/D	N/D	N/D	1.62 ± 0.30	1.45 ± 0.37	N/D	N/D	LC/MS neg	(C03819)	
1-stearoylglycerol	1.10 ± 0.08	0.97 ± 0.05	0.91 ± 0.07	0.90 ± 0.12	0.91 ± 0.07	0.71 ± 0.11	0.90 ± 0.08	0.74 ± 0.07	1.06 ± 0.11	0.89 ± 0.09	GC/MS	(C01885)	
1-stearoyl-GPC	1.99 ± 0.27	1.46 ± 0.16	1.27 ± 0.24	1.92 ± 0.17*	1.07 ± 0.09	0.70 ± 0.13*	1.28 ± 0.19	0.79 ± 0.16	1.38 ± 0.16	0.71 ± 0.13*	LC/MS pos		
1-stearoyl-GPE	N/D	N/D	N/D	N/D	N/D	N/D	0.82 ± 0.10	0.63 ± 0.10	N/D	N/D	LC/MS pos		
1-stearoyl-GPI	1.09 ± 0.11	0.97 ± 0.07	1.24 ± 0.21	N/D	N/D	N/D	1.26 ± 0.17	1.23 ± 0.22	1.24 ± 0.12	1.41 ± 0.21	LC/MS neg	(C03819)	
2-aminobutyrate	1.43 ± 0.23	1.18 ± 0.10	1.12 ± 0.13	1.66 ± 0.25	1.18 ± 0.10	1.01 ± 0.13	1.13 ± 0.14	1.24 ± 0.26	1.24 ± 0.12	1.24 ± 0.26	GC/MS	C02261	HMDB00452
2-arachidonoyl-GPE	N/D	N/D	N/D	N/D	N/D	N/D	1.07 ± 0.12	0.98 ± 0.15	0.83 ± 0.09	0.76 ± 0.10	LC/MS neg		
2-hydroxyacetaminophen sulfate	0.77 ± 0.21	1.05 ± 0.13	0.67 ± 0.17	0.35 ± 0.17*	1.79 ± 0.34	1.51 ± 0.41	1.82 ± 0.39	0.89 ± 0.25	1.70 ± 0.43	0.91 ± 0.33	LC/MS neg		
2-hydroxybutyrate	1.39 ± 0.23	1.13 ± 0.09	1.39 ± 0.13	1.16 ± 0.16	1.18 ± 0.08	1.64 ± 0.21	1.29 ± 0.23	1.20 ± 0.19	1.10 ± 0.11	1.18 ± 0.19	GC/MS	C05984	HMDB00008
2-hydroxyhippurate	N/D	N/D	N/D	N/D	N/D	N/D	2.20 ± 0.96	1.26 ± 0.52	N/D	N/D	LC/MS neg	C07588	HMDB00840
2-hydroxypalmitate	1.15 ± 0.07	1.13 ± 0.06	1.58 ± 0.24	1.33 ± 0.19	1.14 ± 0.09	1.51 ± 0.20	1.09 ± 0.12	1.33 ± 0.14	0.99 ± 0.06	1.22 ± 0.17	LC/MS neg		
2-hydroxystearate	1.19 ± 0.09	1.15 ± 0.08	1.20 ± 0.17	1.23 ± 0.15	1.08 ± 0.08	1.16 ± 0.12	1.16 ± 0.12	1.20 ± 0.14	0.99 ± 0.06	1.08 ± 0.11	LC/MS neg	C03045	
2-linoleoyl-GPC	N/D	N/D	N/D	N/D	N/D	N/D	1.04 ± 0.16	0.42 ± 0.10	0.89 ± 0.10	0.73 ± 0.12	LC/MS pos		
2-methoxyacetaminophen glucuronide	N/D	N/D	N/D	N/D	N/D	N/D	1.79 ± 0.53	0.73 ± 0.17	N/D	N/D	LC/MS pos		
2-methoxyacetaminophen sulfate	0.64 ± 0.21	1.11 ± 0.14	0.75 ± 0.25	0.16 ± 0.05*	1.48 ± 0.17	0.98 ± 0.30	1.62 ± 0.43	0.93 ± 0.25	1.59 ± 0.39	1.00 ± 0.32	LC/MS neg		
2-methylbutyroylcarnitine	1.46 ± 0.32	1.01 ± 0.11	2.05 ± 0.40*	1.13 ± 0.24	1.00 ± 0.10	2.12 ± 0.47*	1.17 ± 0.14	1.50 ± 0.35	1.07 ± 0.10	1.41 ± 0.30	LC/MS pos		HMDB00378
2-octenoylcarnitine	N/D	N/D	N/D	0.77 ± 0.11	0.79 ± 0.06	1.47 ± 0.23*	N/D	N/D	0.60 ± 0.06	1.01 ± 0.20*	LC/MS pos		
2-oleoyl-GPC	N/D	N/D	N/D	N/D	N/D	N/D	0.96 ± 0.09	0.79 ± 0.11	1.12 ± 0.16	0.84 ± 0.13	LC/MS pos		
2-palmitoyl-GPC	1.26 ± 0.17*	0.85 ± 0.07	0.76 ± 0.14	1.72 ± 0.18*	0.91 ± 0.09	0.70 ± 0.12	1.14 ± 0.14	0.74 ± 0.15	1.37 ± 0.15	0.74 ± 0.13*	LC/MS pos		

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
2-stearoyl-GPC	N/D	N/D	N/D	1.48 ± 0.15*	1.19 ± 0.30	0.52 ± 0.08*	1.19 ± 0.16	0.64 ± 0.11	1.20 ± 0.14	0.75 ± 0.13	LC/MS pos		
3-(4-hydroxyphenyl)lactate	2.48 ± 0.72	1.26 ± 0.13	3.21 ± 0.61*	1.48 ± 0.29	1.04 ± 0.10	3.47 ± 0.96*	1.15 ± 0.16	1.75 ± 0.47	1.11 ± 0.18	1.83 ± 0.48	LC/MS neg	C03672	HMDB00755
3-(cystein-S-yl)acetaminophen	0.68 ± 0.22	1.28 ± 0.17	1.41 ± 0.43	0.25 ± 0.14*	2.00 ± 0.37	1.41 ± 0.63	1.48 ± 0.29	0.73 ± 0.22	2.93 ± 0.64	1.81 ± 0.63	LC/MS pos		
3-aminoisobutyrate	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.29 ± 0.61	1.51 ± 0.55	GC/MS	C05145 C03284	HMDB03911
3-carboxy-4-methyl-5-propyl-2-furanpropanoate	1.88 ± 0.40	2.38 ± 0.51	1.63 ± 0.58	2.55 ± 0.81	2.49 ± 0.63	1.76 ± 0.56	3.55 ± 0.97	1.57 ± 0.61	2.74 ± 0.82	1.14 ± 0.47	LC/MS neg		
3-dehydrocarnitine	1.26 ± 0.11	1.18 ± 0.10	1.43 ± 0.22	0.98 ± 0.10	1.09 ± 0.08	1.33 ± 0.17	0.97 ± 0.13	1.61 ± 0.30	1.13 ± 0.13	1.47 ± 0.19	LC/MS pos	C02636	
3-hydroxy-2-ethylpropionate	0.80 ± 0.10	0.82 ± 0.07	1.32 ± 0.20*	0.80 ± 0.10	0.74 ± 0.06	1.26 ± 0.26*	0.59 ± 0.10	0.76 ± 0.13	0.62 ± 0.06	0.94 ± 0.17	GC/MS		HMDB00396
3-hydroxybutyrate	1.99 ± 0.52	1.97 ± 0.28	1.85 ± 0.32	1.54 ± 0.39	2.80 ± 0.62	2.98 ± 0.57	1.88 ± 0.68	1.17 ± 0.23	2.60 ± 0.74	1.70 ± 0.55	GC/MS	C01089	HMDB00357
3-hydroxydecanoate	N/D	N/D	N/D	1.03 ± 0.16	0.86 ± 0.05	1.97 ± 0.46*	0.79 ± 0.07	0.87 ± 0.13	N/D	N/D	LC/MS neg		HMDB02203
3-hydroxyisobutyrate	N/D	N/D	N/D	N/D	N/D	N/D	1.21 ± 0.18	1.00 ± 0.15	1.51 ± 0.35	1.58 ± 0.29	LC/MS pos	C01188 C06001	HMDB00336 HMDB00023
3-hydroxykynurenine	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.15 ± 0.27	1.34 ± 0.42	LC/MS pos	C02794	HMDB00732
3-hydroxyoctanoate	N/D	N/D	N/D	N/D	N/D	N/D	0.88 ± 0.09	0.98 ± 0.20	0.81 ± 0.14	1.15 ± 0.38	LC/MS neg		HMDB01954
3-indoxyl sulfate	1.45 ± 0.28	2.00 ± 0.31	1.72 ± 0.40	1.29 ± 0.27	2.07 ± 0.39	2.19 ± 0.46*	2.09 ± 0.47	2.04 ± 0.52	1.39 ± 0.23	1.15 ± 0.21	LC/MS neg		HMDB00682
3-methoxytyrosine	0.95 ± 0.09	0.81 ± 0.05	5.57 ± 4.14*	1.13 ± 0.11	0.96 ± 0.06	2.41 ± 0.81*	1.14 ± 0.14	1.15 ± 0.16	1.09 ± 0.11	1.16 ± 0.19	LC/MS pos		HMDB01434
3-methyl-2-oxobutyrate	1.18 ± 0.09	1.07 ± 0.05	1.01 ± 0.09	1.04 ± 0.05	1.06 ± 0.04	1.07 ± 0.08	1.07 ± 0.06	0.96 ± 0.06	0.99 ± 0.06	0.92 ± 0.06	LC/MS neg	C00141	HMDB00019
3-methyl-2-oxovalerate	1.38 ± 0.13*	1.00 ± 0.06	1.02 ± 0.12	1.26 ± 0.07	1.07 ± 0.05	0.80 ± 0.09*	1.08 ± 0.10	0.95 ± 0.13	1.17 ± 0.08	0.85 ± 0.10	LC/MS neg	C00671	HMDB03736
3-methylhistidine	1.37 ± 0.33	1.06 ± 0.15	0.60 ± 0.21	3.08 ± 0.76*	1.17 ± 0.20	0.57 ± 0.13	1.21 ± 0.30	0.60 ± 0.18	2.02 ± 0.69	0.72 ± 0.31	LC/MS neg	C01152	HMDB00479 HMDB00001
4-acetamidobutanoate	1.76 ± 0.48	2.91 ± 0.48	3.26 ± 1.01	1.56 ± 0.52	2.39 ± 0.54	2.65 ± 0.52*	1.97 ± 0.42	3.81 ± 1.28	2.16 ± 0.48	4.00 ± 1.30	LC/MS pos	C02946	HMDB03681
4-acetamidophenol	0.56 ± 0.28*	1.48 ± 0.18	0.63 ± 0.21*	0.22 ± 0.07*	2.00 ± 0.27	0.94 ± 0.37*	1.12 ± 0.17	0.89 ± 0.28	2.47 ± 0.60	1.25 ± 0.46	LC/MS pos	C06804	HMDB01859
4-acetaminophen sulfate	0.74 ± 0.20	1.22 ± 0.15	0.84 ± 0.25	0.46 ± 0.20*	1.76 ± 0.25	1.11 ± 0.31	1.41 ± 0.40	0.85 ± 0.33	2.12 ± 0.49	1.47 ± 0.48	LC/MS neg		
4-ethylphenyl sulfate	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	2.46 ± 0.80	1.57 ± 0.87	LC/MS neg		
4-hydroxyphenylacetate	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.86 ± 0.15	1.46 ± 0.58	LC/MS neg	C00642	HMDB00020
4-methyl-2-oxopentanoate	1.31 ± 0.14	1.17 ± 0.06	0.87 ± 0.09*	1.16 ± 0.09	1.15 ± 0.06	0.93 ± 0.10	1.28 ± 0.11	0.98 ± 0.11	1.18 ± 0.09	0.94 ± 0.09	LC/MS neg	C00233	HMDB00695
4-vinylphenol sulfate	1.84 ± 0.73	2.57 ± 0.81	0.52 ± 0.11	2.21 ± 0.76	2.89 ± 1.12	0.79 ± 0.17	N/D	N/D	1.72 ± 0.77	2.03 ± 0.57	LC/MS neg		
5-dodecenoate	1.46 ± 0.32	1.62 ± 0.21	1.66 ± 0.51	1.12 ± 0.10	1.22 ± 0.07	1.31 ± 0.19	1.04 ± 0.17	1.25 ± 0.21	1.48 ± 0.51	2.10 ± 0.70	LC/MS neg		HMDB00529
5-methylthioadenosine	N/D	N/D	N/D	0.83 ± 0.14	1.02 ± 0.10	1.39 ± 0.20*	0.98 ± 0.10	1.20 ± 0.26	0.74 ± 0.09	0.97 ± 0.17	LC/MS pos	C00170	HMDB01173
5-oxoproline	1.03 ± 0.11	1.26 ± 0.10	1.43 ± 0.21	1.23 ± 0.18	1.13 ± 0.08	1.36 ± 0.10	1.01 ± 0.05	1.12 ± 0.09	1.08 ± 0.12	1.14 ± 0.10	LC/MS pos	C01879	HMDB00267
7-alpha-hydroxy-3-oxo-4-cholestenoate	1.25 ± 0.22	1.10 ± 0.08	2.03 ± 0.36*	1.49 ± 0.27	1.06 ± 0.07	2.45 ± 0.51*	1.09 ± 0.11	1.01 ± 0.09	1.19 ± 0.12	1.20 ± 0.17	LC/MS neg	C17337	
acetoacetate	0.87 ± 0.22	1.47 ± 0.25	1.41 ± 0.34	N/D	N/D	N/D	N/D	N/D	N/D	N/D	LC/MS neg	C00164	HMDB00060
acetylcarnitine	1.42 ± 0.24*	0.94 ± 0.07	1.53 ± 0.14*	1.22 ± 0.15	0.99 ± 0.05	1.72 ± 0.19*	1.18 ± 0.18	2.01 ± 0.55	0.95 ± 0.07	1.35 ± 0.25	LC/MS pos	C02571	HMDB00201
adenosine 5'-monophosphate	1.17 ± 0.17	1.18 ± 0.11	1.05 ± 0.11	1.03 ± 0.17	1.34 ± 0.13	1.44 ± 0.62	1.14 ± 0.14	0.92 ± 0.15	2.43 ± 0.98	1.05 ± 0.17	LC/MS pos	C00020	HMDB00045
adrenate	1.27 ± 0.14	1.09 ± 0.08	1.31 ± 0.17	1.36 ± 0.22	1.01 ± 0.06	1.30 ± 0.21	1.15 ± 0.08	1.01 ± 0.09	1.06 ± 0.09	0.99 ± 0.13	LC/MS neg	C16527	HMDB02226
alanine	1.10 ± 0.14	0.96 ± 0.05	0.80 ± 0.07	1.39 ± 0.13*	0.99 ± 0.06	0.85 ± 0.07	1.05 ± 0.10	1.02 ± 0.18	1.16 ± 0.10	0.92 ± 0.12	GC/MS	C00041	HMDB00161
allantoin	1.92 ± 0.47	1.43 ± 0.16	1.92 ± 0.26*	1.33 ± 0.31	1.13 ± 0.18	1.71 ± 0.29*	N/D	N/D	N/D	N/D	GC/MS	C02350	HMDB00462
alpha-hydroxyisovalerate	2.10 ± 0.50	1.61 ± 0.22	2.42 ± 0.42	2.41 ± 0.62	1.31 ± 0.17	3.61 ± 1.56*	1.40 ± 0.27	2.34 ± 0.54	1.23 ± 0.23	2.63 ± 0.80	LC/MS neg		HMDB00407
alpha-ketobutyrate	1.05 ± 0.16	1.00 ± 0.08	1.13 ± 0.14	0.94 ± 0.12	0.86 ± 0.07	1.04 ± 0.13	1.17 ± 0.16	1.02 ± 0.12	1.12 ± 0.14	0.97 ± 0.12	LC/MS neg	C00109	HMDB00005
alpha-ketoglutarate	1.33 ± 0.15	1.12 ± 0.07	1.50 ± 0.28	1.34 ± 0.29	0.98 ± 0.09	1.34 ± 0.30	N/D	N/D	0.53 ± 0.09	0.82 ± 0.20	GC/MS	C00026	HMDB00208
alpha-tocopherol	1.09 ± 0.08	1.04 ± 0.06	1.14 ± 0.09	1.18 ± 0.11	0.97 ± 0.07	1.11 ± 0.11	1.17 ± 0.13	1.09 ± 0.11	1.24 ± 0.13	1.15 ± 0.09	GC/MS	C02477	HMDB01893
androsterone sulfate	1.00 ± 0.33*	2.40 ± 0.30	1.40 ± 0.32	0.93 ± 0.27	2.05 ± 0.31	1.74 ± 0.45	1.49 ± 0.27	1.84 ± 0.55	1.36 ± 0.24	1.49 ± 0.36	LC/MS neg	(C00523)	HMDB02759
arabinose	1.52 ± 0.38	1.15 ± 0.10	1.39 ± 0.16	1.07 ± 0.16	0.89 ± 0.07	1.24 ± 0.17*	0.99 ± 0.10	1.55 ± 0.32	1.06 ± 0.16	1.33 ± 0.29	GC/MS	C00181	HMDB00646
arabitol	1.77 ± 0.35	1.80 ± 0.24	2.08 ± 0.40*	1.41 ± 0.27	1.34 ± 0.22	1.82 ± 0.29*	1.33 ± 0.18	2.23 ± 0.49	1.45 ± 0.23	1.90 ± 0.54	GC/MS	C00474	HMDB01851
arachidonate	1.22 ± 0.08	1.09 ± 0.07	1.11 ± 0.13	1.43 ± 0.13	1.17 ± 0.08	1.02 ± 0.09	1.06 ± 0.11	0.98 ± 0.13	1.18 ± 0.08	0.95 ± 0.12	LC/MS neg	C00219	HMDB01043
arginine	1.28 ± 0.10	1.28 ± 0.25	1.32 ± 0.30	1.28 ± 0.09	0.98 ± 0.06	0.96 ± 0.10	1.10 ± 0.13	1.05 ± 0.10	1.02 ± 0.06	0.97 ± 0.10	LC/MS pos	C00062	HMDB03416 HMDB00517
asparagine	1.14 ± 0.16	1.00 ± 0.07	1.13 ± 0.12	1.13 ± 0.13	1.00 ± 0.07	1.08 ± 0.14	0.89 ± 0.06	1.05 ± 0.11	1.07 ± 0.09	1.08 ± 0.15	GC/MS	C00152	HMDB00168
aspartate	1.38 ± 0.15	0.99 ± 0.05	1.05 ± 0.13	1.25 ± 0.16	1.06 ± 0.08	1.55 ± 0.44	1.13 ± 0.18	0.85 ± 0.13	1.90 ± 0.85	1.19 ± 0.13	GC/MS	C00049	HMDB00191
beta-hydroxyisovalerate	1.36 ± 0.19	1.28 ± 0.13	1.44 ± 0.16	0.80 ± 0.08	0.80 ± 0.06	1.03 ± 0.12	1.12 ± 0.13	1.48 ± 0.22	1.20 ± 0.14	2.10 ± 0.71	LC/MS neg		HMDB00754

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
beta-hydroxypyruvate	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.94 ± 0.08	0.84 ± 0.07	GC/MS	C00168	HMDB01352
betaine	1.26 ± 0.11	1.08 ± 0.07	1.25 ± 0.18	1.14 ± 0.13	1.09 ± 0.06	1.12 ± 0.11	0.95 ± 0.10	1.36 ± 0.18	0.96 ± 0.06	1.17 ± 0.12	LC/MS pos	C00719	HMDB00043
beta-sitosterol	0.94 ± 0.21	0.92 ± 0.12	1.14 ± 0.27	N/D	N/D	N/D	N/D	N/D	N/D	N/D	GC/MS	C01753	HMDB00852
bilirubin	1.13 ± 0.18	1.38 ± 0.13	2.09 ± 0.75	0.80 ± 0.13	1.43 ± 0.19	3.26 ± 0.90	2.08 ± 0.35	3.15 ± 1.14	1.28 ± 0.23	3.26 ± 1.34	LC/MS neg	C00486	HMDB00054
bilirubin (E,E)	N/D	N/D	N/D	N/D	N/D	N/D	1.22 ± 0.21	0.95 ± 0.14	1.38 ± 0.22	1.17 ± 0.17	LC/MS pos	C00486	HMDB00054
bilirubin(E,Z or Z,E)	N/D	N/D	N/D	N/D	N/D	N/D	1.18 ± 0.18	1.06 ± 0.22	N/D	N/D	LC/MS pos	C00486	HMDB00054
biliverdin	1.06 ± 0.20	1.20 ± 0.15	1.00 ± 0.18	0.93 ± 0.16	1.05 ± 0.11	1.14 ± 0.16	1.42 ± 0.23	0.76 ± 0.14	1.31 ± 0.22	1.05 ± 0.18	LC/MS pos	C00500	HMDB01008
butyrylcarnitine	1.26 ± 0.18	1.28 ± 0.15	2.06 ± 0.32*	1.04 ± 0.11	1.22 ± 0.12	1.96 ± 0.30*	0.96 ± 0.09	2.92 ± 1.31	1.05 ± 0.09	3.00 ± 1.19*	LC/MS pos	C02862	HMDB02013
caffeine	1.45 ± 0.42	2.81 ± 0.71	4.40 ± 2.33	1.53 ± 0.46	2.22 ± 0.41	2.96 ± 1.12	1.97 ± 0.47	6.33 ± 3.45	1.17 ± 0.23	3.65 ± 1.68	LC/MS pos	C07481	HMDB01847
caprate	1.03 ± 0.05	1.25 ± 0.15	1.42 ± 0.22	1.12 ± 0.11	1.03 ± 0.06	1.06 ± 0.09	1.48 ± 0.25	1.09 ± 0.12	1.10 ± 0.09	0.91 ± 0.07	LC/MS neg	C01571	HMDB00511
caproate	1.00 ± 0.10	1.17 ± 0.07	1.11 ± 0.12	1.30 ± 0.20	1.34 ± 0.11	0.95 ± 0.09	0.98 ± 0.03	1.01 ± 0.05	1.09 ± 0.07	0.93 ± 0.09	LC/MS neg	C01585	HMDB00535
caprylate	0.94 ± 0.07	1.17 ± 0.17	3.75 ± 2.59	1.18 ± 0.17	1.10 ± 0.07	1.05 ± 0.11	1.18 ± 0.09	1.23 ± 0.21	1.12 ± 0.07	0.91 ± 0.09	LC/MS neg	C06423	HMDB00482
carnitine	1.06 ± 0.06	0.93 ± 0.04	1.06 ± 0.08	1.13 ± 0.07	0.94 ± 0.04	1.03 ± 0.08	0.93 ± 0.06	1.03 ± 0.15	0.98 ± 0.06	0.97 ± 0.08	LC/MS pos	C00487	HMDB00062
catechol sulfate	2.23 ± 0.47	2.10 ± 0.38	1.86 ± 0.62	1.47 ± 0.28	1.62 ± 0.23	1.19 ± 0.23	1.97 ± 0.61	1.63 ± 0.27	2.29 ± 0.62	1.20 ± 0.29	LC/MS neg	(C00090)	
C-glycosyltryptophan	N/D	N/D	N/D	N/D	N/D	N/D	1.69 ± 0.33	2.57 ± 0.66	1.96 ± 0.39	2.40 ± 0.67	LC/MS pos		
chenodeoxycholate	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.56 ± 0.31	1.08 ± 0.25	LC/MS neg	C02528	HMDB00518
cholate	N/D	N/D	N/D	2.02 ± 0.98	1.38 ± 0.33	5.93 ± 3.87	4.55 ± 2.73	1.33 ± 0.40	4.04 ± 2.79	1.05 ± 0.23	LC/MS neg	C00695	HMDB00619
cholesterol	1.08 ± 0.05	1.01 ± 0.03	1.09 ± 0.07	1.02 ± 0.06	1.09 ± 0.05	1.03 ± 0.09	1.01 ± 0.06	0.94 ± 0.05	1.16 ± 0.10	1.04 ± 0.07	GC/MS	C00187	HMDB00067
choline	1.31 ± 0.15	1.11 ± 0.06	1.16 ± 0.13	1.06 ± 0.12	1.13 ± 0.06	1.07 ± 0.08	0.99 ± 0.07	1.09 ± 0.15	1.08 ± 0.07	0.97 ± 0.08	LC/MS pos	C00114	HMDB00097
citrate	1.40 ± 0.13*	1.03 ± 0.05	1.35 ± 0.17	1.64 ± 0.21	1.36 ± 0.25	1.29 ± 0.15	1.06 ± 0.09	0.86 ± 0.10	1.19 ± 0.08	1.12 ± 0.19	GC/MS	C00158	HMDB00094
citrulline	1.60 ± 0.16*	0.98 ± 0.08	0.91 ± 0.12	1.20 ± 0.11	0.93 ± 0.07	0.89 ± 0.15	1.07 ± 0.09	1.03 ± 0.14	1.22 ± 0.11	0.93 ± 0.10	LC/MS pos	C00327	HMDB00904
cortisol	0.79 ± 0.05	1.16 ± 0.08	1.45 ± 0.17	0.69 ± 0.09	1.51 ± 0.26	1.84 ± 0.23	1.41 ± 0.35	1.35 ± 0.14	1.19 ± 0.20	1.70 ± 0.38	LC/MS pos	C00735	HMDB00063
cortisone	N/D	N/D	N/D	0.88 ± 0.09	0.92 ± 0.05	1.20 ± 0.10*	0.96 ± 0.07	0.92 ± 0.11	0.91 ± 0.07	0.99 ± 0.08	LC/MS pos	C00762	HMDB02802
creatine	1.15 ± 0.20	1.76 ± 0.20	2.65 ± 0.48	1.15 ± 0.20	1.49 ± 0.19	2.44 ± 0.42*	1.48 ± 0.28	2.87 ± 0.95	1.71 ± 0.31	3.04 ± 0.83	LC/MS pos	C00300	HMDB00064
creatinine	1.53 ± 0.31	1.88 ± 0.22	1.38 ± 0.23	1.59 ± 0.26	1.60 ± 0.18	1.51 ± 0.18	1.33 ± 0.17	1.08 ± 0.19*	1.45 ± 0.19	1.04 ± 0.18	LC/MS pos	C00791	HMDB00562
cysteine	1.49 ± 0.22	1.15 ± 0.10	1.26 ± 0.16	1.26 ± 0.18	1.20 ± 0.09	1.44 ± 0.17	1.18 ± 0.10	1.15 ± 0.11	1.26 ± 0.14	1.20 ± 0.18	GC/MS	C00097	HMDB00574
cystine	2.38 ± 0.58*	1.67 ± 0.71	2.56 ± 0.76	N/D	N/D	N/D	N/D	N/D	N/D	N/D	GC/MS	C00491	HMDB00192
decanoylcarnitine	1.74 ± 0.27*	0.99 ± 0.08	2.43 ± 0.41*	1.21 ± 0.19	1.12 ± 0.08	2.30 ± 0.34*	N/D	N/D	0.96 ± 0.07	1.66 ± 0.24*	LC/MS pos	C03299	HMDB00651
dehydroisoandrosterone sulfate	0.87 ± 0.20*	1.82 ± 0.21	1.28 ± 0.20	1.07 ± 0.27	1.79 ± 0.24	1.54 ± 0.27	1.95 ± 0.37	1.54 ± 0.38	1.37 ± 0.22	1.17 ± 0.27	LC/MS neg	(C01227)	HMDB01032
deoxycarnitine	1.24 ± 0.14	1.25 ± 0.11	1.51 ± 0.19	1.24 ± 0.16	1.20 ± 0.12	1.46 ± 0.18	0.96 ± 0.07	1.43 ± 0.27	1.01 ± 0.08	1.17 ± 0.20	LC/MS pos	C01181	HMDB01161
deoxycholate	1.08 ± 0.44	1.19 ± 0.17	0.53 ± 0.11*	N/D	N/D	N/D	1.48 ± 0.37	0.81 ± 0.15	1.20 ± 0.18	0.98 ± 0.22	LC/MS neg	C04483	HMDB00626
dihomolinoleate	1.16 ± 0.12	0.98 ± 0.07	1.09 ± 0.11	1.40 ± 0.22	1.05 ± 0.07	1.35 ± 0.22	0.96 ± 0.07	1.05 ± 0.08	0.98 ± 0.10	1.14 ± 0.22	LC/MS neg		
dihomolinolenate	1.27 ± 0.12	1.12 ± 0.08	1.09 ± 0.12	1.35 ± 0.15	1.08 ± 0.09	0.98 ± 0.11	1.02 ± 0.08	1.01 ± 0.15	1.10 ± 0.08	0.97 ± 0.13	LC/MS neg	C03242	HMDB02925
dihydroxyacetone	1.65 ± 0.26	1.44 ± 0.16	0.66 ± 0.07*	0.84 ± 0.14	0.95 ± 0.09	0.73 ± 0.09	N/D	N/D	1.36 ± 0.18	1.26 ± 0.21	GC/MS	C00184	HMDB01882
docosahexaenoate	1.55 ± 0.17	1.15 ± 0.09	1.35 ± 0.17	1.50 ± 0.20	1.16 ± 0.09	1.20 ± 0.16	1.18 ± 0.14	1.05 ± 0.13	1.10 ± 0.09	1.01 ± 0.14	LC/MS neg	C06429	HMDB02183
docosapentaenoate	1.35 ± 0.16	1.09 ± 0.09	1.38 ± 0.20	1.40 ± 0.23	1.15 ± 0.10	1.45 ± 0.25	1.25 ± 0.15	1.09 ± 0.13	1.14 ± 0.13	1.02 ± 0.17	LC/MS neg	C16513	HMDB01976
dodecanedioate	N/D	N/D	N/D	N/D	N/D	N/D	1.05 ± 0.20	0.87 ± 0.13	0.87 ± 0.05	1.08 ± 0.21	LC/MS neg	C02678	HMDB00623
eicosapentaenoate	1.53 ± 0.21	1.27 ± 0.13	1.44 ± 0.48	1.48 ± 0.15	1.31 ± 0.15	1.33 ± 0.42	1.29 ± 0.15	1.00 ± 0.11	1.24 ± 0.08	1.03 ± 0.11	LC/MS neg	C06428	HMDB01999
eicosenoate	1.10 ± 0.12	1.04 ± 0.08	1.34 ± 0.15	1.33 ± 0.21	1.06 ± 0.06	1.58 ± 0.25	0.92 ± 0.07	1.11 ± 0.10	1.06 ± 0.13	1.49 ± 0.30	LC/MS neg		HMDB02231
epiandrosterone sulfate	1.30 ± 0.38	2.21 ± 0.31	1.21 ± 0.20	1.15 ± 0.32	1.85 ± 0.46	1.20 ± 0.20	1.28 ± 0.20	1.07 ± 0.25	1.31 ± 0.21	1.24 ± 0.27	LC/MS neg	(C07635)	(HMDB00365)
erythritol	1.48 ± 0.35	1.65 ± 0.22	2.19 ± 0.37*	1.18 ± 0.22	1.37 ± 0.21	2.27 ± 0.36*	1.22 ± 0.17	2.03 ± 0.44	1.31 ± 0.21	1.90 ± 0.48	GC/MS	C00503	HMDB02994
erythronate	1.76 ± 0.46	2.32 ± 0.35	2.46 ± 0.49*	1.44 ± 0.33	1.71 ± 0.33	2.23 ± 0.34*	1.49 ± 0.27	2.22 ± 0.54	1.78 ± 0.38	2.34 ± 0.66	GC/MS	C01620	HMDB00613
erythrose	1.42 ± 0.14	1.23 ± 0.08	0.89 ± 0.05	1.08 ± 0.11	1.11 ± 0.06	0.99 ± 0.08	1.28 ± 0.16	1.05 ± 0.10	1.11 ± 0.08	1.17 ± 0.11	GC/MS	C01796	HMDB02649
estrone 3-sulfate	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.78 ± 0.17	1.70 ± 1.07	LC/MS neg	C02538	HMDB01425
fructose	1.78 ± 0.29	1.58 ± 0.20	1.15 ± 0.14	1.42 ± 0.20	1.53 ± 0.17	0.86 ± 0.06	1.40 ± 0.21	1.18 ± 0.15	2.05 ± 0.44	1.91 ± 0.59	GC/MS	C00095	HMDB00660
galactonate	1.62 ± 0.26	1.35 ± 0.16	1.08 ± 0.14	1.17 ± 0.18	1.39 ± 0.30	0.89 ± 0.12	1.50 ± 0.30	1.04 ± 0.13	1.08 ± 0.08	1.03 ± 0.13	GC/MS	C00257	HMDB03290
gamma-glutamylglutamine	1.19 ± 0.15	1.03 ± 0.09	0.95 ± 0.16	1.21 ± 0.18	0.99 ± 0.09	1.09 ± 0.19	0.84 ± 0.08	0.95 ± 0.14	1.04 ± 0.08	0.88 ± 0.12	LC/MS pos		
gamma-glutamylisoleucine	N/D	N/D	N/D	0.93 ± 0.07*	0.74 ± 0.03	0.87 ± 0.11	1.00 ± 0.11	0.82 ± 0.12	1.10 ± 0.11	0.85 ± 0.12	LC/MS pos		
gamma-glutamylleucine	1.19 ± 0.10	1.13 ± 0.06	1.06 ± 0.11	1.03 ± 0.08	1.06 ± 0.05	1.24 ± 0.21	1.21 ± 0.09	0.83 ± 0.08*	1.13 ± 0.09	0.92 ± 0.10	LC/MS pos		
gamma-glutamylmethionine	N/D	N/D	N/D	N/D	N/D	N/D	0.68 ± 0.07	0.88 ± 0.11	0.91 ± 0.07	1.09 ± 0.18	LC/MS pos		
gamma-glutamylphenylalanine	0.98 ± 0.10	1.09 ± 0.07	1.23 ± 0.13	1.00 ± 0.08	1.19 ± 0.08	1.59 ± 0.31	1.29 ± 0.12	1.12 ± 0.15	1.10 ± 0.09	1.11 ± 0.13	LC/MS pos		HMDB00594

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
gamma-glutamyltyrosine	1.24 ± 0.21	0.99 ± 0.05	1.23 ± 0.16	1.13 ± 0.10	0.85 ± 0.05	1.34 ± 0.28*	0.98 ± 0.07	1.01 ± 0.07	1.03 ± 0.08	1.27 ± 0.14	LC/MS pos		
gluconate	2.17 ± 0.45	4.02 ± 1.20	1.99 ± 0.46	1.79 ± 0.42	5.21 ± 1.71	3.16 ± 1.75	2.03 ± 0.62	4.52 ± 3.34	6.68 ± 3.69	6.63 ± 3.85	GC/MS	C00257	HMDB00625
glucose	1.22 ± 0.11	1.11 ± 0.06	1.12 ± 0.10	1.09 ± 0.07	1.03 ± 0.03	1.04 ± 0.06	1.05 ± 0.05	1.05 ± 0.08	1.07 ± 0.08	0.98 ± 0.09	GC/MS	C00267	HMDB00122
glucuronate	1.95 ± 0.63	2.21 ± 0.39	2.49 ± 0.53*	N/D	N/D	N/D	1.24 ± 0.15	1.76 ± 0.49	1.47 ± 0.37	1.65 ± 0.39	GC/MS	C00191	HMDB00127
glutamate	2.65 ± 0.53*	1.16 ± 0.10	1.33 ± 0.32	2.39 ± 0.45*	1.35 ± 0.16	1.53 ± 0.39	2.01 ± 0.52	1.16 ± 0.25	2.29 ± 0.81	1.30 ± 0.23	GC/MS	C00025	HMDB03339
glutamine	1.20 ± 0.07*	0.97 ± 0.03	1.07 ± 0.08	1.15 ± 0.05	0.99 ± 0.04	1.11 ± 0.12	1.02 ± 0.04	1.06 ± 0.07	1.02 ± 0.06	1.02 ± 0.08	LC/MS pos	C00064	HMDB00641
glutamylvaline	1.10 ± 0.09	1.17 ± 0.08	1.24 ± 0.13	1.10 ± 0.09	1.03 ± 0.06	1.35 ± 0.17*	1.17 ± 0.10	0.90 ± 0.07	1.24 ± 0.11	1.03 ± 0.09	LC/MS pos		
glutaroylcarnitine	1.56 ± 0.39	1.45 ± 0.16	1.60 ± 0.28	1.38 ± 0.24	1.29 ± 0.16	1.71 ± 0.23*	1.10 ± 0.13	1.06 ± 0.20	1.17 ± 0.13	1.08 ± 0.18	LC/MS pos		
glycerate	1.25 ± 0.14	1.01 ± 0.04	1.22 ± 0.11	1.23 ± 0.08	1.00 ± 0.05	1.11 ± 0.10	1.21 ± 0.14	1.28 ± 0.16	1.28 ± 0.16	1.22 ± 0.11	GC/MS	C00258	HMDB00139
glycerol	1.42 ± 0.17	0.99 ± 0.05	1.23 ± 0.12	1.44 ± 0.22	1.04 ± 0.04	1.29 ± 0.14	1.06 ± 0.13	1.18 ± 0.12	1.15 ± 0.11	1.41 ± 0.26	GC/MS	C00116	HMDB00131
glycerol 2-phosphate	N/D	N/D	N/D	N/D	N/D	N/D	0.91 ± 0.09	1.09 ± 0.15	N/D	N/D	GC/MS	C02979	HMDB02520
glycerol 3-phosphate	1.29 ± 0.11*	1.03 ± 0.03	1.01 ± 0.06	1.24 ± 0.06	1.05 ± 0.04	1.07 ± 0.11	1.19 ± 0.11	1.06 ± 0.13	1.16 ± 0.10	0.97 ± 0.06	GC/MS	C00093	HMDB00126
glycerophosphorylcholine	N/D	N/D	N/D	1.55 ± 0.25	1.28 ± 0.15	0.76 ± 0.12*	1.12 ± 0.17	1.12 ± 0.28	1.27 ± 0.30	0.93 ± 0.23	LC/MS pos	C00670	HMDB00086
glycine	1.17 ± 0.16	1.00 ± 0.06	1.18 ± 0.12	1.25 ± 0.10*	0.96 ± 0.05	0.98 ± 0.08	1.05 ± 0.12	1.39 ± 0.38	1.10 ± 0.09	0.97 ± 0.09	GC/MS	C00037	HMDB00123
glycochenodeoxycholate	4.41 ± 2.18	2.46 ± 0.84	9.17 ± 4.34	1.27 ± 0.23	2.29 ± 0.53	3.53 ± 1.18	1.54 ± 0.32	3.51 ± 1.57	1.46 ± 0.28	3.38 ± 1.25	LC/MS neg	C05466 C05462	HMDB00637
glycocholate	2.65 ± 0.88	3.64 ± 1.19	8.88 ± 4.57	1.14 ± 0.28	2.53 ± 0.63	2.32 ± 0.48	2.78 ± 0.76	4.28 ± 1.95	2.34 ± 0.70	4.25 ± 1.96	LC/MS neg	C01921	HMDB00138
glycodeoxycholate	N/D	N/D	N/D	0.79 ± 0.22	1.30 ± 0.26	0.58 ± 0.15	1.03 ± 0.30	1.03 ± 0.55	1.30 ± 0.35	0.71 ± 0.31	LC/MS pos	C05464	HMDB00631
glycolate	N/D	N/D	N/D	1.40 ± 0.28	1.09 ± 0.07	1.02 ± 0.08	1.02 ± 0.04	1.24 ± 0.32	1.03 ± 0.05	1.11 ± 0.06	GC/MS	C00160	HMDB00115
glycylproline	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.83 ± 0.08	0.87 ± 0.21	LC/MS pos		HMDB00721
gulono-1,4-lactone	2.25 ± 0.83	2.53 ± 0.54	1.37 ± 0.37	1.36 ± 0.56	2.29 ± 0.75	1.22 ± 0.24	N/D	N/D	1.65 ± 0.39	1.55 ± 0.54	GC/MS	C01040	HMDB03466
heme	2.52 ± 0.74	2.04 ± 0.29	1.26 ± 0.39	1.62 ± 0.50	2.05 ± 0.35	2.37 ± 1.16	2.95 ± 1.07	1.12 ± 0.51	6.73 ± 4.22	1.16 ± 0.27	LC/MS pos	C00032	HMDB03178
heptanoate	0.86 ± 0.07	0.96 ± 0.04	0.93 ± 0.08	1.26 ± 0.17	1.21 ± 0.10	0.83 ± 0.08	1.01 ± 0.02	0.96 ± 0.06	1.15 ± 0.08	0.89 ± 0.10	LC/MS neg		HMDB00666
hexadecanedioate	0.99 ± 0.38	0.94 ± 0.10	1.91 ± 0.55	0.93 ± 0.22	1.04 ± 0.10	3.11 ± 0.75*	0.83 ± 0.12	1.60 ± 0.35*	1.06 ± 0.23	3.90 ± 1.83*	LC/MS neg		HMDB00672
hexanoylcarnitine	1.24 ± 0.18	1.14 ± 0.11	2.27 ± 0.31*	0.91 ± 0.11	1.08 ± 0.09	2.14 ± 0.27*	0.99 ± 0.10	1.79 ± 0.34	0.89 ± 0.08	1.96 ± 0.41*	LC/MS pos		HMDB00705
hippurate	4.73 ± 1.42	9.91 ± 4.49	7.02 ± 3.69	3.09 ± 1.01	4.24 ± 1.11	5.60 ± 2.53	7.24 ± 2.26	4.25 ± 2.98	8.02 ± 2.69	7.84 ± 5.23	LC/MS neg	C01586	HMDB00714
histidine	1.20 ± 0.06*	0.98 ± 0.03	1.06 ± 0.06	1.00 ± 0.04	1.03 ± 0.04	1.08 ± 0.13	1.04 ± 0.05	0.95 ± 0.07	0.98 ± 0.05	0.96 ± 0.07	LC/MS neg	C00135	HMDB00177
homocitrulline	1.07 ± 0.21*	0.70 ± 0.07	0.84 ± 0.13	N/D	N/D	N/D	N/D	N/D	0.86 ± 0.13	1.17 ± 0.31	LC/MS pos	C02427	HMDB00679
homostachydrine	N/D	N/D	N/D	0.96 ± 0.10	0.97 ± 0.08	0.84 ± 0.14	0.92 ± 0.11	1.30 ± 0.18	1.04 ± 0.14	1.17 ± 0.24	LC/MS pos	C08283	HMDB04827
hydroquinone sulfate	N/D	N/D	N/D	1.41 ± 0.71	1.35 ± 0.26	2.78 ± 1.35*	N/D	N/D	1.26 ± 0.37	4.05 ± 2.08	LC/MS neg	(C00530)	(HMDB02434)
hydroxyisovaleroylcarnitine	1.28 ± 0.21	1.11 ± 0.14	1.39 ± 0.19	1.33 ± 0.33	1.14 ± 0.14	1.58 ± 0.21*	1.07 ± 0.19	1.24 ± 0.26	1.10 ± 0.14	1.14 ± 0.15	LC/MS pos		
hydroxyproline	1.56 ± 0.25	1.11 ± 0.08	1.69 ± 0.26*	1.27 ± 0.13	1.04 ± 0.10	1.57 ± 0.21*	1.11 ± 0.12	1.26 ± 0.21	1.14 ± 0.15	1.16 ± 0.18	GC/MS	C01157	HMDB00725
hyodeoxycholate	N/D	N/D	N/D	1.04 ± 0.21	0.76 ± 0.09	0.86 ± 0.25	0.84 ± 0.17	1.25 ± 0.45	1.02 ± 0.26	1.10 ± 0.54	LC/MS neg	C15517	HMDB00733
hypoxanthine	1.11 ± 0.14	1.15 ± 0.09	1.18 ± 0.16	0.92 ± 0.18	1.35 ± 0.20	0.92 ± 0.13	1.00 ± 0.08	0.94 ± 0.13	1.80 ± 0.52	1.60 ± 0.34	LC/MS pos	C00262	HMDB00157
ibuprofen	N/D	N/D	N/D	3.44 ± 2.34	4.03 ± 1.90	1.62 ± 0.81	N/D	N/D	N/D	N/D	LC/MS neg	C01588	HMDB01925
iminodiacetate	1.13 ± 0.14	1.22 ± 0.08	0.96 ± 0.08	1.31 ± 0.19	1.18 ± 0.11	0.98 ± 0.11	1.72 ± 0.31	0.81 ± 0.15	1.44 ± 0.19	1.07 ± 0.20	GC/MS		HMDB11753
indoleacetate	N/D	N/D	N/D	1.44 ± 0.20	1.17 ± 0.12	1.23 ± 0.17	1.38 ± 0.22	1.47 ± 0.32	1.26 ± 0.18	1.04 ± 0.12	LC/MS pos	C00954	HMDB00197
indolelactate	1.47 ± 0.24	1.28 ± 0.12	1.22 ± 0.16	1.29 ± 0.20	1.10 ± 0.10	1.51 ± 0.27	1.17 ± 0.13	0.91 ± 0.14	1.36 ± 0.20	1.14 ± 0.18	GC/MS	C02043	HMDB00671
indolepropionate	N/D	N/D	N/D	0.96 ± 0.10	1.01 ± 0.10	0.92 ± 0.09	0.96 ± 0.12	1.17 ± 0.27	0.99 ± 0.09	0.93 ± 0.16	LC/MS pos		HMDB02302
isobutyrylcarnitine	1.99 ± 0.44	1.44 ± 0.18	2.80 ± 0.52*	1.35 ± 0.23	1.15 ± 0.11	2.49 ± 0.50*	1.18 ± 0.16	1.19 ± 0.27	1.67 ± 0.33	1.60 ± 0.41	LC/MS pos		HMDB00736
isoleucine	1.35 ± 0.10*	0.98 ± 0.05	1.14 ± 0.09	1.21 ± 0.06	1.05 ± 0.04	0.92 ± 0.11	1.05 ± 0.11	0.96 ± 0.14	1.10 ± 0.06	0.92 ± 0.11	LC/MS pos	C00407	HMDB00172
isovalerate	0.82 ± 0.10	0.79 ± 0.05	0.77 ± 0.08	N/D	N/D	N/D	0.96 ± 0.05	1.02 ± 0.06	1.29 ± 0.15	0.85 ± 0.10	LC/MS neg	C08262	HMDB00718
isovalerylcarnitine	1.37 ± 0.23	1.21 ± 0.13	1.27 ± 0.19	1.01 ± 0.17	1.12 ± 0.09	1.16 ± 0.18	1.46 ± 0.19	1.06 ± 0.18	1.10 ± 0.12	1.08 ± 0.17	LC/MS pos		HMDB00688
kynurenate	0.93 ± 0.22	0.99 ± 0.14	1.01 ± 0.12	N/D	N/D	N/D	N/D	N/D	N/D	N/D	LC/MS neg	C01717	HMDB00715
kynurenine	1.16 ± 0.11	1.18 ± 0.07	1.06 ± 0.09	0.99 ± 0.09	1.19 ± 0.09	1.43 ± 0.19	1.24 ± 0.12	0.92 ± 0.15	1.11 ± 0.10	1.13 ± 0.16	LC/MS pos	C00328	HMDB00183
lactate	1.19 ± 0.16	1.09 ± 0.07	1.52 ± 0.19	1.07 ± 0.09	1.07 ± 0.05	1.50 ± 0.20*	1.13 ± 0.08	1.25 ± 0.20	1.10 ± 0.16	1.24 ± 0.15	GC/MS	C00186	HMDB00190
lathosterol	0.61 ± 0.09	0.75 ± 0.07	0.72 ± 0.15	N/D	N/D	N/D	N/D	N/D	N/D	N/D	GC/MS	C01189	HMDB01170
laurate	1.08 ± 0.07	1.16 ± 0.06	1.17 ± 0.11	1.03 ± 0.05	1.04 ± 0.04	1.06 ± 0.08	1.22 ± 0.17	1.25 ± 0.14	1.05 ± 0.04	1.00 ± 0.06	LC/MS neg	C02679	HMDB00638
laurylcarnitine	2.18 ± 0.69*	0.81 ± 0.07	1.76 ± 0.35*	1.50 ± 0.21*	0.89 ± 0.08	1.32 ± 0.23	0.81 ± 0.11	1.31 ± 0.20	0.92 ± 0.10	1.27 ± 0.23	LC/MS pos		
leucine	1.11 ± 0.11	1.07 ± 0.05	1.05 ± 0.08	1.04 ± 0.08	1.04 ± 0.04	1.00 ± 0.13	1.08 ± 0.09	0.81 ± 0.10	1.15 ± 0.07	0.97 ± 0.10	LC/MS pos	C00123	HMDB00687
linoleate	1.08 ± 0.09	0.95 ± 0.06	1.02 ± 0.08	1.14 ± 0.10	0.96 ± 0.05	1.05 ± 0.10	0.94 ± 0.07	1.04 ± 0.08	0.93 ± 0.07	1.06 ± 0.14	LC/MS neg	C01595	HMDB00673

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
linolenate	1.22 ± 0.14	1.08 ± 0.09	0.97 ± 0.09	1.32 ± 0.15	1.10 ± 0.10	1.08 ± 0.12	1.18 ± 0.12	1.09 ± 0.11	1.12 ± 0.11	1.15 ± 0.18	LC/MS neg	C06427	HMDB01388
lysine	5.03 ± 1.54*	1.26 ± 0.24	2.22 ± 0.73	2.36 ± 0.67	1.61 ± 0.28	6.41 ± 4.33	1.01 ± 0.06	1.03 ± 0.08	0.99 ± 0.03	1.05 ± 0.05	LC/MS pos	C00047	HMDB00182
malate	1.89 ± 0.43*	1.02 ± 0.05	1.71 ± 0.32*	1.50 ± 0.26*	0.98 ± 0.06	1.37 ± 0.17*	1.15 ± 0.11	1.47 ± 0.29	1.12 ± 0.13	1.26 ± 0.17	GC/MS	C00149	HMDB00156
maltose	0.85 ± 0.19	1.36 ± 0.22	1.84 ± 0.51	N/D	N/D	N/D	N/D	N/D	1.24 ± 0.28	1.01 ± 0.18	GC/MS	C00208	HMDB00163
mannitol	1.85 ± 0.58	3.18 ± 1.58	3.49 ± 1.16	1.65 ± 0.40	5.40 ± 2.45	10.56 ± 2.57*	3.61 ± 2.32	6.21 ± 4.13	4.52 ± 2.01	14.79 ± 8.52	GC/MS	C00392	HMDB00765
mannose	1.04 ± 0.11	1.31 ± 0.11	1.14 ± 0.13	0.98 ± 0.11	1.19 ± 0.05	1.09 ± 0.11	1.55 ± 0.25	1.27 ± 0.18	1.30 ± 0.14	0.97 ± 0.07	GC/MS	C00159	HMDB00169
margarate	1.30 ± 0.14	1.19 ± 0.08	1.21 ± 0.11	1.11 ± 0.11	1.00 ± 0.05	1.14 ± 0.11	1.03 ± 0.09	1.15 ± 0.09	1.00 ± 0.09	1.08 ± 0.15	LC/MS neg		HMDB02259
methionine	1.84 ± 0.54*	1.06 ± 0.06	1.37 ± 0.16	1.60 ± 0.33*	1.04 ± 0.05	1.51 ± 0.39	1.01 ± 0.06	1.13 ± 0.10	1.07 ± 0.06	1.31 ± 0.31	LC/MS neg	C00073	HMDB00696
methyl linoleate	N/D	N/D	N/D	N/D	N/D	N/D	0.76 ± 0.09	0.83 ± 0.14	N/D	N/D	GC/MS		
methylglutaroylcarnitine	N/D	N/D	N/D	N/D	N/D	N/D	1.18 ± 0.18	2.05 ± 0.48	1.29 ± 0.20	1.93 ± 0.57	LC/MS pos		
myo-inositol	2.40 ± 0.51	2.07 ± 0.28	2.38 ± 0.59	1.71 ± 0.32	2.17 ± 0.38	2.26 ± 0.36	1.49 ± 0.20	2.72 ± 0.57	1.34 ± 0.22	1.89 ± 0.43	GC/MS	C00137	HMDB00211
myristate	1.14 ± 0.10	1.11 ± 0.07	1.18 ± 0.11	1.10 ± 0.07	1.03 ± 0.04	1.10 ± 0.08	1.02 ± 0.10	1.22 ± 0.14	1.02 ± 0.07	1.08 ± 0.12	LC/MS neg	C06424	HMDB00806
myristoleate	1.35 ± 0.17	1.21 ± 0.09	1.45 ± 0.25	1.20 ± 0.12	1.13 ± 0.06	1.36 ± 0.20	1.28 ± 0.19	1.28 ± 0.21	1.22 ± 0.21	1.35 ± 0.24	LC/MS neg	C08322	HMDB02000
N2,N2-dimethylguanosine	1.23 ± 0.35	1.49 ± 0.21	1.84 ± 0.37*	1.06 ± 0.37	1.57 ± 0.29	1.93 ± 0.32*	1.63 ± 0.34	1.90 ± 0.61	1.75 ± 0.42	1.98 ± 0.64	LC/MS pos		HMDB04824
N6-carbamoylthreonyladenosine	1.12 ± 0.27	1.38 ± 0.19	1.49 ± 0.34	1.36 ± 0.47	1.87 ± 0.35	1.96 ± 0.31*	1.92 ± 0.43	2.28 ± 0.72	1.85 ± 0.41	2.01 ± 0.60	LC/MS pos		
N-acetylalanine	1.02 ± 0.10	1.26 ± 0.10	1.51 ± 0.13*	0.94 ± 0.11	1.10 ± 0.10	1.62 ± 0.14*	1.13 ± 0.12	1.31 ± 0.17	1.21 ± 0.14	1.42 ± 0.22	LC/MS neg	C02847	HMDB00766
N-acetylaspartate	1.22 ± 0.22	0.82 ± 0.05	1.04 ± 0.11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	GC/MS	C01042	HMDB00812
N-acetylglucosamine 6-sulfate	N/D	N/D	N/D	1.01 ± 0.19	1.21 ± 0.20	1.59 ± 0.22*	N/D	N/D	1.27 ± 0.23	1.69 ± 0.49	LC/MS neg	C04132	HMDB00814
N-acetylglycine	1.22 ± 0.15	1.13 ± 0.07	1.53 ± 0.23	0.95 ± 0.14	0.89 ± 0.07	1.05 ± 0.12	1.08 ± 0.12	1.33 ± 0.31	1.18 ± 0.15	1.03 ± 0.21	GC/MS		HMDB00532
N-acetylmethionine	N/D	N/D	N/D	N/D	N/D	N/D	1.31 ± 0.19	1.40 ± 0.30	1.06 ± 0.16	1.39 ± 0.28	LC/MS pos	C02712	HMDB11745
N-acetylneuraminate	1.69 ± 0.56	1.64 ± 0.26	9.83 ± 6.42*	1.05 ± 0.30	1.43 ± 0.31	6.97 ± 4.49*	1.21 ± 0.16	1.77 ± 0.35	1.37 ± 0.27	1.70 ± 0.45	GC/MS	C00270	HMDB00230
N-acetylornithine	0.94 ± 0.13	1.00 ± 0.09	0.80 ± 0.10	1.08 ± 0.15	0.87 ± 0.08	0.77 ± 0.11	1.05 ± 0.15	1.24 ± 0.20	0.93 ± 0.11	0.92 ± 0.12	LC/MS pos	C00437	HMDB03357
N-acetylthreonine	1.01 ± 0.12	1.42 ± 0.16	1.86 ± 0.34*	1.18 ± 0.15	1.02 ± 0.09	1.56 ± 0.17*	0.89 ± 0.13	1.65 ± 0.29*	1.23 ± 0.17	1.72 ± 0.35	LC/MS neg		
N-formylmethionine	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.83 ± 0.10	1.14 ± 0.16	LC/MS neg	C03145	HMDB01015
nonadecanoate	N/D	N/D	N/D	1.11 ± 0.06	0.98 ± 0.05	1.15 ± 0.09	1.00 ± 0.08	1.10 ± 0.10	0.99 ± 0.07	1.33 ± 0.17	LC/MS neg	C16535	HMDB00772
octadecanedioate	1.16 ± 0.27	1.01 ± 0.13	2.06 ± 0.40*	1.41 ± 0.50	1.11 ± 0.12	4.21 ± 1.80*	0.87 ± 0.09	2.14 ± 0.54*	1.05 ± 0.23	4.74 ± 3.08	LC/MS neg		HMDB00782
octanoylcarnitine	1.69 ± 0.24*	1.17 ± 0.15	2.67 ± 0.43*	1.05 ± 0.14	1.18 ± 0.10	2.89 ± 0.58*	0.98 ± 0.11	2.04 ± 0.36*	0.94 ± 0.09	2.25 ± 0.41*	LC/MS pos		HMDB00791
oleate	1.09 ± 0.11	0.98 ± 0.05	1.14 ± 0.09	1.03 ± 0.11	1.01 ± 0.07	1.31 ± 0.15	1.01 ± 0.09	1.03 ± 0.09	0.98 ± 0.11	1.13 ± 0.18	GC/MS	C00712	HMDB00207
oleoylcarnitine	N/D	N/D	N/D	N/D	N/D	N/D	1.11 ± 0.09	0.99 ± 0.17	1.18 ± 0.11	0.94 ± 0.13	LC/MS pos		
ornithine	2.98 ± 0.82*	1.25 ± 0.18	2.25 ± 0.59	1.81 ± 0.42	1.47 ± 0.26	3.42 ± 1.91	N/D	N/D	1.97 ± 0.42	2.04 ± 0.67	GC/MS	C00077	HMDB03374
oxaloacetate	1.09 ± 0.20	1.52 ± 0.19	2.04 ± 0.37	1.10 ± 0.27	1.60 ± 0.24	1.98 ± 0.51	2.06 ± 0.46	2.42 ± 0.89	1.20 ± 0.18	1.88 ± 0.51	GC/MS	C00036	HMDB00223
p-acetamidophenylglucuronide	0.92 ± 0.31	1.14 ± 0.14	0.85 ± 0.26	0.73 ± 0.49*	1.82 ± 0.29	1.00 ± 0.31	1.41 ± 0.30	0.82 ± 0.21	1.44 ± 0.31	0.79 ± 0.23	LC/MS neg		
palmitate	1.13 ± 0.09	1.01 ± 0.06	1.11 ± 0.09	1.06 ± 0.08	0.95 ± 0.04	1.03 ± 0.08	0.97 ± 0.06	1.03 ± 0.06	0.92 ± 0.06	0.97 ± 0.09	LC/MS neg	C00249	HMDB00220
palmitoleate	1.30 ± 0.16	1.16 ± 0.08	1.32 ± 0.15	1.15 ± 0.13	1.05 ± 0.06	1.25 ± 0.16	1.08 ± 0.12	1.14 ± 0.16	1.18 ± 0.20	1.26 ± 0.19	LC/MS neg	C08362	HMDB03229
palmitoylcarnitine	2.22 ± 0.89*	0.84 ± 0.06	1.75 ± 0.39*	1.48 ± 0.19*	0.90 ± 0.05	1.12 ± 0.17	1.08 ± 0.11	0.93 ± 0.14	1.02 ± 0.10	0.87 ± 0.10	LC/MS pos	C02990	HMDB00222
pantothenate	0.86 ± 0.12	1.21 ± 0.16	1.24 ± 0.31	0.95 ± 0.20	1.42 ± 0.16	1.49 ± 0.27	1.96 ± 0.41	2.17 ± 0.73	2.53 ± 0.64	1.90 ± 0.68	LC/MS pos	C00864	HMDB00210
paraxanthine	N/D	N/D	N/D	N/D	N/D	N/D	0.98 ± 0.28	1.21 ± 0.44	0.98 ± 0.19	1.26 ± 0.33	LC/MS pos	C13747	HMDB01860
p-cresol sulfate	1.23 ± 0.19	1.38 ± 0.14	1.39 ± 0.19	1.22 ± 0.19	1.48 ± 0.17	2.03 ± 0.30*	1.39 ± 0.25	1.62 ± 0.45	1.49 ± 0.24	1.29 ± 0.26	LC/MS neg	(C01468)	
pelargonate	0.89 ± 0.07	0.97 ± 0.04	0.86 ± 0.06	1.12 ± 0.11	1.08 ± 0.07	0.81 ± 0.08	1.05 ± 0.03	0.97 ± 0.05	1.11 ± 0.08	0.84 ± 0.10	LC/MS neg	C01601	HMDB00847
pentadecanoate	N/D	N/D	N/D	N/D	N/D	N/D	1.11 ± 0.10	1.28 ± 0.14	1.11 ± 0.08	1.11 ± 0.11	LC/MS neg	C16537	HMDB00826
phenol sulfate	2.02 ± 0.44	1.45 ± 0.18	1.81 ± 0.53	1.36 ± 0.34	1.12 ± 0.13	1.52 ± 0.21*	1.32 ± 0.26	3.26 ± 1.10	1.30 ± 0.17	2.36 ± 0.79	LC/MS neg	C02180	
phenylacetate	1.21 ± 0.32	0.94 ± 0.11	1.32 ± 0.33	N/D	N/D	N/D	N/D	N/D	0.76 ± 0.10	0.76 ± 0.15	LC/MS neg	C07086	HMDB00209
phenylacetylglutamine	2.32 ± 0.64	4.27 ± 0.90	4.12 ± 1.33	1.77 ± 0.47	3.56 ± 0.86	5.30 ± 1.43*	2.69 ± 0.91	3.37 ± 1.57	4.13 ± 1.39	3.78 ± 2.04	LC/MS neg	C05597	HMDB06344
phenylalanine	1.04 ± 0.07	1.08 ± 0.04	1.08 ± 0.06	0.94 ± 0.03	1.10 ± 0.04	1.21 ± 0.15	1.09 ± 0.06	0.95 ± 0.07	1.08 ± 0.06	1.00 ± 0.09	LC/MS pos	C00079	HMDB00159
phenyllactate	N/D	N/D	N/D	1.18 ± 0.33	1.03 ± 0.11	2.81 ± 0.80*	1.15 ± 0.12	1.49 ± 0.32	1.11 ± 0.15	1.67 ± 0.42	LC/MS neg	C05607	HMDB00779
phosphate	1.23 ± 0.07*	0.97 ± 0.03	1.12 ± 0.06	1.11 ± 0.06	1.05 ± 0.05	1.20 ± 0.07*	0.99 ± 0.05	1.01 ± 0.05	1.11 ± 0.07	1.03 ± 0.08	GC/MS	C00009	HMDB01429
pipecolate	2.15 ± 0.51	1.45 ± 0.21	2.08 ± 0.38	2.26 ± 0.50	1.50 ± 0.23	2.00 ± 0.37	1.37 ± 0.41	3.32 ± 0.93*	1.19 ± 0.19	2.78 ± 0.71*	LC/MS pos	C00408	HMDB00070
piperine	1.25 ± 0.26	1.06 ± 0.17	0.42 ± 0.12*	3.02 ± 0.75	2.13 ± 0.39	0.61 ± 0.17*	1.69 ± 0.32	0.50 ± 0.11*	1.79 ± 0.32	0.56 ± 0.12*	LC/MS pos	C03882	
proline	1.48 ± 0.16*	1.06 ± 0.05	1.28 ± 0.13	1.34 ± 0.11*	0.99 ± 0.05	1.33 ± 0.22	1.03 ± 0.06	1.16 ± 0.19	1.01 ± 0.08	1.06 ± 0.12	LC/MS pos	C00148	HMDB00162
prolylhydroxyproline	1.41 ± 0.43	1.54 ± 0.22	1.86 ± 0.23*	1.06 ± 0.12	1.34 ± 0.16	1.79 ± 0.19*	1.43 ± 0.22	1.56 ± 0.25	1.44 ± 0.21	1.31 ± 0.20	LC/MS pos		HMDB06695
propionylcarnitine	2.10 ± 0.35*	1.20 ± 0.11	2.53 ± 0.49*	1.28 ± 0.17	0.98 ± 0.06	1.65 ± 0.21*	1.20 ± 0.16	1.76 ± 0.49	1.07 ± 0.12	1.36 ± 0.23	LC/MS pos	C03017	HMDB00824
pseudouridine	1.25 ± 0.21	1.43 ± 0.14	1.74 ± 0.20*	1.13 ± 0.19	1.29 ± 0.15	1.89 ± 0.22*	1.31 ± 0.18	2.11 ± 0.43	1.15 ± 0.16	1.45 ± 0.27	LC/MS pos	C02067	HMDB00767

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
pyridoxate	1.48 ± 0.59	3.89 ± 1.05	2.36 ± 0.77	2.91 ± 1.71	6.20 ± 2.33	4.57 ± 2.04	4.36 ± 1.87	3.56 ± 2.10	7.49 ± 3.37	6.38 ± 3.11	LC/MS neg	C00847	HMDB00017
pyroglutamine	2.05 ± 0.39	1.32 ± 0.13	1.90 ± 0.30	2.16 ± 0.50	1.22 ± 0.14	2.10 ± 0.32*	1.02 ± 0.12	1.72 ± 0.27	0.94 ± 0.12	1.49 ± 0.28	LC/MS pos		
pyruvate	0.98 ± 0.16	1.29 ± 0.12	1.65 ± 0.28	1.22 ± 0.15	1.10 ± 0.09	1.77 ± 0.29*	1.62 ± 0.24	1.68 ± 0.38	1.18 ± 0.23	1.41 ± 0.29	LC/MS neg	C00022	HMDB00243
quinate	2.21 ± 0.60	2.25 ± 0.53	2.65 ± 1.44	1.47 ± 0.37	1.19 ± 0.25	1.00 ± 0.31	N/D	N/D	N/D	N/D	GC/MS	C00296	HMDB03072
riboflavin	N/D	N/D	N/D	N/D	N/D	N/D	1.25 ± 0.31	1.30 ± 0.43	N/D	N/D	LC/MS pos	C00255	HMDB00244
saccharin	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.38 ± 0.46	20.78 ± 16.76	LC/MS neg	C12283	
salicylate	N/D	N/D	N/D	N/D	N/D	N/D	7.39 ± 4.97	1.29 ± 0.82	N/D	N/D	LC/MS neg	C00805	HMDB01895
salicyluric glucuronide	N/D	N/D	N/D	1.01 ± 0.29	3.13 ± 1.32	2.46 ± 1.30	4.97 ± 2.96	7.44 ± 3.87	N/D	N/D	LC/MS neg		
scyllo-inositol	2.05 ± 0.49	1.37 ± 0.16	2.07 ± 0.40	1.33 ± 0.26	1.38 ± 0.27	2.02 ± 0.40	0.99 ± 0.12	2.85 ± 1.18*	0.73 ± 0.11	1.65 ± 0.51	GC/MS	C06153	HMDB06088
serine	2.46 ± 0.43*	1.24 ± 0.11	1.46 ± 0.24	1.66 ± 0.27	1.09 ± 0.08	1.27 ± 0.36	1.69 ± 0.50	1.13 ± 0.18	1.42 ± 0.20	1.12 ± 0.19	GC/MS	C00065	HMDB03406
sphingomyelin	N/D	N/D	N/D	N/D	N/D	N/D	1.09 ± 0.09	1.03 ± 0.15	1.23 ± 0.14	1.10 ± 0.11	GC/MS	C00550	HMDB01348
sphingosine	N/D	N/D	N/D	N/D	N/D	N/D	0.63 ± 0.08	0.77 ± 0.14	0.99 ± 0.08	0.87 ± 0.18	LC/MS pos	C00319	HMDB00252
stachydrine	2.12 ± 0.54	1.72 ± 0.28	2.36 ± 0.69	1.34 ± 0.20	0.92 ± 0.09	1.15 ± 0.26	1.33 ± 0.31	5.16 ± 1.93	0.96 ± 0.17	2.20 ± 0.63	LC/MS pos	C10172	HMDB04827
stearate	1.16 ± 0.09	1.07 ± 0.06	1.10 ± 0.09	1.10 ± 0.09	1.01 ± 0.04	1.12 ± 0.09	0.98 ± 0.06	1.03 ± 0.05	0.97 ± 0.06	1.05 ± 0.11	LC/MS neg	C01530	HMDB00827
stearidonate	1.36 ± 0.19	0.98 ± 0.09	1.65 ± 0.73	1.27 ± 0.23	0.90 ± 0.14	1.52 ± 0.46	1.18 ± 0.14	0.93 ± 0.20	0.83 ± 0.09	0.81 ± 0.14	LC/MS neg	C16300	HMDB06547
stearoylcarnitine	N/D	N/D	N/D	N/D	N/D	N/D	0.77 ± 0.07	0.85 ± 0.15	0.92 ± 0.10	0.75 ± 0.09	LC/MS pos		HMDB00848
succinate	N/D	N/D	N/D	N/D	N/D	N/D	1.05 ± 0.07	1.03 ± 0.05	1.05 ± 0.09	0.95 ± 0.07	GC/MS	C00042	HMDB00254
succinoylcarnitine	N/D	N/D	N/D	N/D	N/D	N/D	1.08 ± 0.13	1.39 ± 0.27	1.10 ± 0.13	1.28 ± 0.27	LC/MS pos		
sucrose	1.11 ± 0.43	1.15 ± 0.21	3.13 ± 1.28*	1.95 ± 0.54	2.18 ± 0.54	2.10 ± 0.47	3.77 ± 1.39	1.83 ± 0.45	3.95 ± 1.64	3.09 ± 1.63	LC/MS neg	C00089	HMDB00258
symmetric dimethylarginine	1.22 ± 0.14	1.16 ± 0.08	1.50 ± 0.14*	1.01 ± 0.09	1.14 ± 0.08	1.55 ± 0.16*	1.05 ± 0.08	1.22 ± 0.18	1.09 ± 0.10	1.19 ± 0.21	LC/MS pos		HMDB03334
taurochenodeoxycholate	3.59 ± 1.86	3.53 ± 1.39	12.44 ± 4.96	1.66 ± 0.54	5.37 ± 2.45	11.30 ± 3.91	3.10 ± 0.79	10.74 ± 5.86	1.61 ± 0.32	4.95 ± 2.21	LC/MS neg	C05465	HMDB00951
taurocholate	2.28 ± 0.78	3.94 ± 1.37	14.80 ± 7.06	1.53 ± 0.55	4.15 ± 1.42	8.60 ± 3.65	4.19 ± 1.64	8.06 ± 3.93	4.07 ± 2.25	6.26 ± 3.10	LC/MS neg	C05122	HMDB00036
taurolithocholate 3-sulfate	1.02 ± 0.21	1.52 ± 0.23	1.54 ± 0.45	1.03 ± 0.17	2.46 ± 0.64	2.24 ± 0.69	2.60 ± 0.81	6.06 ± 3.53	1.45 ± 0.30	2.78 ± 1.21	LC/MS neg	C03642	HMDB02580
tetradecanedioate	N/D	N/D	N/D	N/D	N/D	N/D	1.00 ± 0.18	0.93 ± 0.16	1.01 ± 0.07	1.30 ± 0.14	LC/MS neg		HMDB00872
theobromine	N/D	N/D	N/D	N/D	N/D	N/D	1.18 ± 0.32	2.05 ± 0.66	1.20 ± 0.26	2.15 ± 0.90	LC/MS pos	C07480	HMDB02825
theophylline	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.77 ± 0.15	1.18 ± 0.38	LC/MS neg	C07130	
threitol	1.93 ± 0.43	2.03 ± 0.36	2.14 ± 0.56	1.98 ± 0.48	1.76 ± 0.40	2.07 ± 0.46*	1.50 ± 0.26	2.28 ± 0.58	1.80 ± 0.34	2.19 ± 0.63	GC/MS		HMDB04136
threonate	1.35 ± 0.24	1.57 ± 0.22	1.34 ± 0.20	1.46 ± 0.33	1.42 ± 0.19	1.26 ± 0.17	1.42 ± 0.28	1.40 ± 0.28	1.77 ± 0.38	1.26 ± 0.27	GC/MS	C01620	HMDB00943
threonine	1.47 ± 0.19	1.03 ± 0.09	1.10 ± 0.18	1.24 ± 0.08	1.03 ± 0.06	1.15 ± 0.17	1.56 ± 0.39	1.06 ± 0.11	1.37 ± 0.18	1.42 ± 0.35	GC/MS	C00188	HMDB00167
thymol sulfate	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.35 ± 0.31	1.49 ± 0.61	LC/MS neg	(C09908)	(HMDB01878)
tiglyl carnitine	0.97 ± 0.17	0.87 ± 0.11	1.22 ± 0.15*	0.86 ± 0.17	0.74 ± 0.10	1.34 ± 0.24*	1.12 ± 0.15	1.01 ± 0.15	1.12 ± 0.11	1.15 ± 0.14	LC/MS pos		
trigonelline	N/D	N/D	N/D	1.14 ± 0.22	1.16 ± 0.17	0.75 ± 0.30	1.01 ± 0.23	1.44 ± 0.55	1.40 ± 0.37	1.23 ± 0.50	LC/MS pos	C01004	HMDB00875
tryptophan	1.27 ± 0.08*	1.05 ± 0.05	0.88 ± 0.09	1.32 ± 0.11*	1.06 ± 0.07	0.89 ± 0.12	1.12 ± 0.09	0.78 ± 0.08	1.07 ± 0.08	1.03 ± 0.15	LC/MS pos	C00078	HMDB00929
tyrosine	1.37 ± 0.15*	0.94 ± 0.04	1.18 ± 0.14	1.26 ± 0.07*	1.02 ± 0.05	1.24 ± 0.22	1.01 ± 0.05	1.04 ± 0.09	1.10 ± 0.06	1.13 ± 0.12	LC/MS pos	C00082	HMDB00158
urate	1.11 ± 0.06	0.99 ± 0.03	1.14 ± 0.07	1.24 ± 0.08*	0.94 ± 0.04	1.15 ± 0.10	1.03 ± 0.06	1.26 ± 0.13	0.98 ± 0.06	1.07 ± 0.10	LC/MS neg	C00366	HMDB00289
urea	1.38 ± 0.23	1.18 ± 0.10	1.61 ± 0.22*	1.14 ± 0.10	0.94 ± 0.05	1.36 ± 0.12*	1.01 ± 0.05	0.99 ± 0.09	1.14 ± 0.14	1.49 ± 0.26	GC/MS	C00086	HMDB00294
uridine	1.45 ± 0.14*	1.03 ± 0.05	0.97 ± 0.08	1.10 ± 0.08	1.00 ± 0.05	0.82 ± 0.06	0.97 ± 0.04	0.98 ± 0.10	1.08 ± 0.07	0.96 ± 0.07	LC/MS neg	C00299	HMDB00296
urobilinogen	N/D	N/D	N/D	N/D	N/D	N/D	0.82 ± 0.20	2.00 ± 0.67	N/D	N/D	LC/MS neg	C05791	HMDB04158
ursodeoxycholate	N/D	N/D	N/D	1.47 ± 0.46	2.40 ± 1.53	1.17 ± 0.33	0.82 ± 0.19	1.08 ± 0.30	N/D	N/D	LC/MS neg	C07880	HMDB00946
vaccenate	0.68 ± 0.12	0.69 ± 0.07	0.60 ± 0.10	N/D	N/D	N/D	0.86 ± 0.09	0.92 ± 0.10	1.30 ± 0.14	0.88 ± 0.16	GC/MS	C08367	
valine	1.24 ± 0.07*	1.03 ± 0.03	0.95 ± 0.06	1.05 ± 0.06	1.05 ± 0.04	0.98 ± 0.10	1.08 ± 0.07	0.87 ± 0.08	1.02 ± 0.04	0.90 ± 0.08	LC/MS pos	C00183	HMDB00883
vanillylmandelate	1.44 ± 0.39	1.27 ± 0.20	1.80 ± 0.46*	N/D	N/D	N/D	N/D	N/D	N/D	N/D	GC/MS	C05584	HMDB00291
X-01327	1.22 ± 0.18	1.62 ± 0.23	1.49 ± 0.25	1.87 ± 0.36	1.48 ± 0.20	1.87 ± 0.39	N/D	N/D	N/D	N/D	LC/MS pos		
X-01911	N/D	N/D	N/D	1.41 ± 0.43	1.31 ± 0.21	0.44 ± 0.11*	1.57 ± 0.30	0.58 ± 0.14*	1.26 ± 0.23	0.41 ± 0.07*	LC/MS pos		
X-02249	1.51 ± 0.26	1.61 ± 0.19	1.03 ± 0.25	1.59 ± 0.23	1.59 ± 0.20	1.19 ± 0.24	1.67 ± 0.29	1.25 ± 0.33	2.06 ± 0.40	1.19 ± 0.32	LC/MS neg		
X-02269	N/D	N/D	N/D	N/D	N/D	N/D	1.58 ± 0.38	0.77 ± 0.13	1.58 ± 0.45	0.58 ± 0.08	LC/MS neg		
X-02973	1.06 ± 0.05	1.05 ± 0.03	1.01 ± 0.05	1.05 ± 0.06	1.08 ± 0.04	0.96 ± 0.06	1.18 ± 0.09	1.00 ± 0.08	1.11 ± 0.06	1.10 ± 0.11	GC/MS		
X-03002	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	2.72 ± 0.97	1.01 ± 0.26	GC/MS		
X-03056	0.99 ± 0.13	1.46 ± 0.14	1.86 ± 0.26	1.02 ± 0.13	1.26 ± 0.10	1.77 ± 0.22*	1.29 ± 0.18	1.60 ± 0.33	1.21 ± 0.16	1.32 ± 0.27	LC/MS pos		
X-03090	1.11 ± 0.09	1.06 ± 0.04	1.04 ± 0.05	N/D	N/D	N/D	1.09 ± 0.12	0.63 ± 0.10	1.00 ± 0.16	0.79 ± 0.19	GC/MS		
X-03091	N/D	N/D	N/D	N/D	N/D	N/D	1.53 ± 0.22	0.74 ± 0.17*	0.81 ± 0.16	0.67 ± 0.23	GC/MS		

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
X-03094	1.22 ± 0.09	1.09 ± 0.06	1.05 ± 0.11	1.09 ± 0.11	1.11 ± 0.09	1.01 ± 0.12	1.18 ± 0.11	0.89 ± 0.13	1.15 ± 0.13	0.94 ± 0.12	GC/MS		
X-03951	1.81 ± 0.51	1.79 ± 0.23	2.21 ± 0.46*	1.55 ± 0.36	1.64 ± 0.26	2.25 ± 0.29*	N/D	N/D	N/D	N/D	LC/MS pos		
X-04015	N/D	N/D	N/D	N/D	N/D	N/D	1.02 ± 0.07	0.99 ± 0.06	0.76 ± 0.11	0.62 ± 0.10	GC/MS		
X-04272	N/D	N/D	N/D	N/D	N/D	N/D	0.94 ± 0.07	0.73 ± 0.09	1.01 ± 0.08	0.96 ± 0.08	GC/MS		
X-04357	1.56 ± 0.19*	1.08 ± 0.07	1.86 ± 0.34*	1.46 ± 0.19*	0.90 ± 0.08	1.91 ± 0.33*	1.07 ± 0.10	1.26 ± 0.24	1.21 ± 0.16	1.52 ± 0.24	GC/MS		
X-04494	N/D	N/D	N/D	N/D	N/D	N/D	1.04 ± 0.10	1.23 ± 0.17	0.82 ± 0.08	1.14 ± 0.17	GC/MS		
X-04495	1.45 ± 0.23	1.31 ± 0.13	1.71 ± 0.34	1.28 ± 0.18	1.01 ± 0.10	1.44 ± 0.18*	1.23 ± 0.15	1.39 ± 0.25	1.10 ± 0.12	1.25 ± 0.20	GC/MS		
X-04498	1.17 ± 0.17	1.13 ± 0.11	1.78 ± 0.23*	1.10 ± 0.13	1.02 ± 0.10	1.96 ± 0.31*	1.28 ± 0.17	2.27 ± 0.67	1.28 ± 0.19	1.58 ± 0.30	GC/MS		
X-04499	1.06 ± 0.13	1.06 ± 0.08	1.99 ± 0.30*	0.87 ± 0.09	0.94 ± 0.07	1.59 ± 0.24*	1.00 ± 0.13	1.39 ± 0.33	1.85 ± 0.51	2.47 ± 1.38	GC/MS		
X-04504	2.94 ± 1.46	4.53 ± 1.62	2.74 ± 0.81	1.02 ± 0.34	4.46 ± 2.89	2.05 ± 0.80	N/D	N/D	2.85 ± 1.10	2.04 ± 0.52	GC/MS		
X-04507	2.17 ± 0.75	1.85 ± 0.30	1.71 ± 0.43	1.27 ± 0.39	1.52 ± 0.36	1.69 ± 0.35*	1.59 ± 0.39	2.50 ± 0.87	1.37 ± 0.35	1.46 ± 0.41	GC/MS		
X-04515	0.70 ± 0.19	1.80 ± 0.71	1.38 ± 0.42	1.50 ± 0.37	0.83 ± 0.19	0.88 ± 0.27	N/D	N/D	0.74 ± 0.17	1.54 ± 0.46	GC/MS		
X-04595	0.81 ± 0.12	0.64 ± 0.05	1.01 ± 0.13*	0.95 ± 0.10	0.85 ± 0.06	1.22 ± 0.14*	0.92 ± 0.09	1.23 ± 0.19	0.80 ± 0.09	1.20 ± 0.18	GC/MS		
X-04598	N/D	N/D	N/D	1.09 ± 0.16	0.79 ± 0.08	1.23 ± 0.14*	0.97 ± 0.16	1.41 ± 0.23	1.15 ± 0.16	1.54 ± 0.29	GC/MS		
X-04629	1.11 ± 0.25	1.71 ± 0.28	1.45 ± 0.30	0.76 ± 0.23	1.03 ± 0.25	1.07 ± 0.17	1.03 ± 0.15	0.95 ± 0.17	1.21 ± 0.33	1.08 ± 0.27	GC/MS		
X-05415	N/D	N/D	N/D	N/D	N/D	N/D	1.07 ± 0.28	1.07 ± 0.37	1.86 ± 0.68	0.82 ± 0.37	GC/MS		
X-05426	2.50 ± 0.85	2.64 ± 0.62	1.37 ± 0.57	2.06 ± 0.63	2.35 ± 0.68	1.39 ± 0.27	1.40 ± 0.32	1.52 ± 0.56	1.84 ± 0.63	1.72 ± 0.62	GC/MS		
X-05491	1.17 ± 0.21	0.98 ± 0.11	1.23 ± 0.17	N/D	N/D	N/D	1.41 ± 0.29	1.10 ± 0.10	1.27 ± 0.20	1.15 ± 0.15	GC/MS		
X-05522	2.05 ± 0.76	3.27 ± 0.81	3.01 ± 0.74	1.13 ± 0.36	2.13 ± 0.66	1.79 ± 0.33	0.86 ± 0.16	1.21 ± 0.27	1.22 ± 0.28	1.59 ± 0.50	GC/MS		
X-05907	1.20 ± 0.12	1.07 ± 0.07	0.67 ± 0.09*	1.05 ± 0.10	1.07 ± 0.08	0.76 ± 0.08	1.05 ± 0.10	0.62 ± 0.11*	1.10 ± 0.13	0.78 ± 0.13	GC/MS		
X-06126	1.01 ± 0.27	2.05 ± 0.31	2.99 ± 1.00	0.78 ± 0.21	2.17 ± 0.46	4.32 ± 1.48	1.41 ± 0.38	1.68 ± 0.67	1.93 ± 0.42	1.46 ± 0.51	LC/MS neg		
X-06246	1.22 ± 0.17	0.96 ± 0.06	0.64 ± 0.07*	1.08 ± 0.10*	0.82 ± 0.05	0.65 ± 0.05	N/D	N/D	0.96 ± 0.08	0.79 ± 0.10	GC/MS		
X-06267	1.29 ± 0.26	0.99 ± 0.15	0.95 ± 0.17	0.96 ± 0.15	0.85 ± 0.07	0.74 ± 0.09	N/D	N/D	0.94 ± 0.09	0.70 ± 0.10	GC/MS		
X-06268	1.07 ± 0.18	0.98 ± 0.08	1.17 ± 0.18	1.00 ± 0.12	0.72 ± 0.07	0.66 ± 0.10	N/D	N/D	N/D	N/D	GC/MS		
X-06346	1.22 ± 0.09	1.17 ± 0.05	0.94 ± 0.06	1.11 ± 0.09	1.10 ± 0.05	0.84 ± 0.07	0.87 ± 0.07	0.83 ± 0.07	1.13 ± 0.09	0.94 ± 0.07	GC/MS		
X-06350	0.98 ± 0.12	0.93 ± 0.07	0.78 ± 0.09	N/D	N/D	N/D	0.88 ± 0.08	0.69 ± 0.08	0.99 ± 0.10	1.01 ± 0.15	GC/MS		
X-06351	1.08 ± 0.26	1.09 ± 0.11	1.45 ± 0.33	N/D	N/D	N/D	N/D	N/D	N/D	N/D	GC/MS		
X-06906	N/D	N/D	N/D	N/D	N/D	N/D	1.14 ± 0.23	1.38 ± 0.42	1.36 ± 0.37	1.33 ± 0.32	GC/MS		
X-07765	1.18 ± 0.22	2.01 ± 0.36	0.62 ± 0.23*	1.61 ± 0.31	2.39 ± 0.56	0.84 ± 0.30	2.12 ± 0.57	1.78 ± 0.53	2.07 ± 0.62	1.37 ± 0.41	LC/MS neg		
X-08402	1.26 ± 0.07	1.11 ± 0.08	0.85 ± 0.07	1.18 ± 0.09	1.17 ± 0.08	0.94 ± 0.08	1.08 ± 0.10	0.93 ± 0.11	1.23 ± 0.15	0.98 ± 0.11	GC/MS		
X-08889	1.43 ± 0.19	1.15 ± 0.10	1.28 ± 0.15	1.19 ± 0.15	1.18 ± 0.11	1.26 ± 0.15	0.86 ± 0.10	0.78 ± 0.10	0.96 ± 0.16	0.90 ± 0.17	GC/MS		
X-08988	N/D	N/D	N/D	N/D	N/D	N/D	1.04 ± 0.08	1.03 ± 0.11	1.03 ± 0.08	1.08 ± 0.08	GC/MS		
X-09026	1.49 ± 0.16	1.39 ± 0.12	0.65 ± 0.08*	N/D	N/D	N/D	N/D	N/D	1.13 ± 0.10	0.89 ± 0.14	GC/MS		
X-09044	2.23 ± 0.48*	1.03 ± 0.11	1.34 ± 0.20	N/D	N/D	N/D	N/D	N/D	N/D	N/D	GC/MS		
X-09108	1.23 ± 0.14	1.01 ± 0.05	1.21 ± 0.19	N/D	N/D	N/D	N/D	N/D	1.01 ± 0.07	0.79 ± 0.11	GC/MS		
X-09789	1.81 ± 0.50	1.19 ± 0.14	0.68 ± 0.12	1.74 ± 0.51	1.09 ± 0.14	0.83 ± 0.19	0.92 ± 0.14	1.27 ± 0.33	0.90 ± 0.15	0.96 ± 0.23	LC/MS neg		
X-10266	1.55 ± 0.31	2.01 ± 0.54	1.37 ± 0.19	1.08 ± 0.26	1.28 ± 0.27	1.19 ± 0.23	0.89 ± 0.17	0.84 ± 0.16	1.09 ± 0.24	0.96 ± 0.15	GC/MS		
X-10346	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.78 ± 0.65	7.90 ± 3.69	LC/MS neg		
X-10359	2.05 ± 0.65	1.98 ± 0.32	1.79 ± 0.46	1.75 ± 0.46	1.75 ± 0.39	1.90 ± 0.48*	1.22 ± 0.24	1.62 ± 0.46	2.10 ± 0.49	2.26 ± 0.69	GC/MS		
X-10395	1.65 ± 0.22	1.32 ± 0.10	0.50 ± 0.07*	1.50 ± 0.15	1.30 ± 0.10	0.76 ± 0.07*	1.16 ± 0.10	0.79 ± 0.16	1.25 ± 0.12	0.85 ± 0.17	GC/MS		
X-10429	1.35 ± 0.13	1.14 ± 0.08	0.56 ± 0.07*	N/D	N/D	N/D	N/D	N/D	0.87 ± 0.09	0.63 ± 0.16	GC/MS		
X-10438	1.26 ± 0.20*	0.78 ± 0.08	0.96 ± 0.15	N/D	N/D	N/D	N/D	N/D	N/D	N/D	GC/MS		
X-10439	2.08 ± 0.49*	0.98 ± 0.10	1.50 ± 0.27	1.22 ± 0.24	0.67 ± 0.07	0.83 ± 0.18	N/D	N/D	0.87 ± 0.11	1.06 ± 0.17	GC/MS		
X-10483	1.01 ± 0.22	1.28 ± 0.15	1.76 ± 0.28*	0.70 ± 0.12	1.10 ± 0.19	1.60 ± 0.22*	1.08 ± 0.16	1.72 ± 0.41	1.04 ± 0.19	1.41 ± 0.32	GC/MS		
X-10500	1.15 ± 0.04	1.04 ± 0.04	0.91 ± 0.07	1.04 ± 0.06	0.96 ± 0.05	0.84 ± 0.10	1.13 ± 0.08	0.89 ± 0.07	1.15 ± 0.09	1.00 ± 0.06	GC/MS		
X-10510	1.31 ± 0.08	1.14 ± 0.06	1.04 ± 0.08	1.14 ± 0.09	1.10 ± 0.05	0.96 ± 0.09	1.02 ± 0.09	1.05 ± 0.16	1.20 ± 0.15	0.99 ± 0.10	GC/MS		
X-10593	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.89 ± 0.08	1.00 ± 0.24	LC/MS pos		
X-10595	N/D	N/D	N/D	N/D	N/D	N/D	0.94 ± 0.07	0.97 ± 0.09	N/D	N/D	GC/MS		
X-10609	N/D	N/D	N/D	N/D	N/D	N/D	1.07 ± 0.15	1.03 ± 0.15	N/D	N/D	GC/MS		
X-10744	1.19 ± 0.06	1.03 ± 0.04	0.99 ± 0.07	1.06 ± 0.06	1.01 ± 0.04	0.97 ± 0.07	1.05 ± 0.07	0.92 ± 0.08	N/D	N/D	GC/MS		
X-10747	N/D	N/D	N/D	N/D	N/D	N/D	0.97 ± 0.12	3.99 ± 3.21	1.32 ± 0.25	0.99 ± 0.18	GC/MS		
X-10752	1.80 ± 0.33	1.41 ± 0.15	0.81 ± 0.08*	1.14 ± 0.14	1.27 ± 0.25	0.96 ± 0.10	1.38 ± 0.23	1.02 ± 0.10	1.20 ± 0.15	1.01 ± 0.17	GC/MS		

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
X-10876	N/D	N/D	N/D	N/D	N/D	N/D	0.99 ± 0.06	0.94 ± 0.08	1.13 ± 0.08	1.00 ± 0.06	GC/MS		
X-10933	N/D	N/D	N/D	0.91 ± 0.09	0.94 ± 0.08	1.03 ± 0.10	N/D	N/D	1.10 ± 0.13	0.87 ± 0.09	GC/MS		
X-10964	1.31 ± 0.19*	0.78 ± 0.05	0.75 ± 0.09	N/D	N/D	N/D	0.71 ± 0.10	0.59 ± 0.13	N/D	N/D	GC/MS		
X-11168	1.49 ± 0.49	1.20 ± 0.13	1.09 ± 0.15	N/D	N/D	N/D	N/D	N/D	0.99 ± 0.21	0.81 ± 0.17	GC/MS		
X-11175	2.01 ± 0.38*	1.20 ± 0.10	1.57 ± 0.21	0.95 ± 0.16	1.14 ± 0.16	2.20 ± 0.74*	1.23 ± 0.12	1.20 ± 0.26	1.14 ± 0.19	1.25 ± 0.27	GC/MS		
X-11204	1.02 ± 0.05	1.02 ± 0.03	0.93 ± 0.05	1.07 ± 0.05	0.99 ± 0.03	0.91 ± 0.04	0.94 ± 0.04	0.90 ± 0.06	1.09 ± 0.05	0.99 ± 0.06	LC/MS pos		
X-11206	1.00 ± 0.03	0.93 ± 0.02	0.91 ± 0.04	0.97 ± 0.04	0.97 ± 0.02	0.92 ± 0.04	N/D	N/D	N/D	N/D	LC/MS pos		
X-11231	N/D	N/D	N/D	1.34 ± 0.20	1.26 ± 0.20	1.16 ± 0.15	N/D	N/D	N/D	N/D	LC/MS neg		
X-11244	1.36 ± 0.37	2.02 ± 0.30	1.85 ± 0.41	1.53 ± 0.53	1.76 ± 0.23	2.35 ± 0.68	2.16 ± 0.54	1.69 ± 0.67	2.00 ± 0.36	1.82 ± 0.56	LC/MS neg		
X-11245	0.86 ± 0.14*	1.82 ± 0.23	1.54 ± 0.28	0.82 ± 0.15	1.51 ± 0.19	1.61 ± 0.24	1.72 ± 0.25	1.44 ± 0.49	1.58 ± 0.26	1.31 ± 0.27	LC/MS neg		
X-11255	1.86 ± 0.62	1.91 ± 0.33	0.81 ± 0.23	1.61 ± 0.46	1.33 ± 0.19	0.74 ± 0.20	0.99 ± 0.20	0.74 ± 0.22	1.37 ± 0.37	0.83 ± 0.26	LC/MS pos		
X-11261	1.54 ± 0.23	1.48 ± 0.15	1.46 ± 0.27	1.27 ± 0.22	1.24 ± 0.13	1.11 ± 0.15	1.10 ± 0.14	1.45 ± 0.34	1.28 ± 0.17	1.50 ± 0.36	LC/MS pos		
X-11273	0.75 ± 0.18*	2.07 ± 0.31	1.92 ± 0.40	1.10 ± 0.50	2.11 ± 0.34	2.45 ± 0.51	1.66 ± 0.36	1.09 ± 0.16	1.46 ± 0.31	1.71 ± 0.48	LC/MS neg		
X-11282	0.95 ± 0.15	1.16 ± 0.12	1.21 ± 0.20	1.24 ± 0.21	1.24 ± 0.13	2.43 ± 0.61*	1.29 ± 0.17	1.67 ± 0.47	1.21 ± 0.15	1.48 ± 0.29	LC/MS neg		
X-11299	1.50 ± 0.23	1.20 ± 0.16	1.62 ± 0.58	2.03 ± 0.30	1.66 ± 0.29	2.33 ± 0.99	2.30 ± 0.88	1.40 ± 0.33	1.93 ± 0.63	1.34 ± 0.30	LC/MS neg		
X-11302	0.78 ± 0.12*	2.40 ± 0.35	1.07 ± 0.17*	0.86 ± 0.19*	1.80 ± 0.27	1.44 ± 0.21	2.58 ± 0.43	1.62 ± 0.50	2.15 ± 0.43	1.90 ± 0.65	LC/MS neg		
X-11303	1.07 ± 0.22	1.73 ± 0.31	1.78 ± 0.50	1.17 ± 0.28	2.61 ± 0.55	2.55 ± 0.70	2.57 ± 0.85	3.42 ± 1.70	1.79 ± 0.43	2.80 ± 1.28	LC/MS neg		
X-11308	1.35 ± 0.33	1.10 ± 0.15	1.00 ± 0.17	1.18 ± 0.18	0.99 ± 0.09	1.14 ± 0.13	1.27 ± 0.17	1.03 ± 0.18	1.20 ± 0.15	1.16 ± 0.29	LC/MS neg		
X-11315	0.96 ± 0.10	0.92 ± 0.06	1.05 ± 0.08	1.01 ± 0.10	0.88 ± 0.06	0.98 ± 0.09	0.93 ± 0.12	1.14 ± 0.13	0.87 ± 0.09	0.98 ± 0.14	LC/MS pos		
X-11317	1.13 ± 0.08	1.11 ± 0.06	0.99 ± 0.09	1.03 ± 0.10	1.17 ± 0.06	1.02 ± 0.10	N/D	N/D	1.14 ± 0.07	0.95 ± 0.10	LC/MS neg		
X-11327	1.09 ± 0.06	1.00 ± 0.04	0.97 ± 0.08	1.03 ± 0.05	1.00 ± 0.03	0.88 ± 0.05	0.82 ± 0.08	1.00 ± 0.11	1.11 ± 0.06	1.00 ± 0.05	LC/MS pos		
X-11333	N/D	N/D	N/D	1.38 ± 0.39	1.71 ± 0.64	2.38 ± 1.00*	1.05 ± 0.28	1.77 ± 0.64	1.35 ± 0.38	1.29 ± 0.48	LC/MS pos		
X-11334	1.26 ± 0.34	1.49 ± 0.27	1.31 ± 0.30	1.58 ± 0.55	1.63 ± 0.30	1.64 ± 0.23*	1.84 ± 0.35	2.20 ± 0.67	1.78 ± 0.34	1.57 ± 0.46	LC/MS pos		
X-11341	N/D	N/D	N/D	N/D	N/D	N/D	0.82 ± 0.13	1.45 ± 0.36	1.18 ± 0.19	1.24 ± 0.21	LC/MS pos		
X-11372	N/D	N/D	N/D	N/D	N/D	N/D	1.23 ± 0.17	1.01 ± 0.16	1.14 ± 0.12	1.09 ± 0.18	LC/MS neg		
X-11381	1.22 ± 0.13	1.05 ± 0.07	1.69 ± 0.21*	1.01 ± 0.12	0.83 ± 0.05	1.67 ± 0.28*	0.92 ± 0.08	1.27 ± 0.28	1.00 ± 0.07	1.14 ± 0.17	LC/MS pos		
X-11400	N/D	N/D	N/D	3.06 ± 1.64	2.71 ± 0.54	2.31 ± 1.02	N/D	N/D	3.83 ± 1.37	1.56 ± 0.45	LC/MS pos		
X-11412	N/D	N/D	N/D	1.04 ± 0.08	1.14 ± 0.05	0.82 ± 0.08*	N/D	N/D	N/D	N/D	LC/MS pos		
X-11421 (4-cis decenoylcarnitine)	1.34 ± 0.16	1.04 ± 0.10	2.21 ± 0.39*	1.16 ± 0.25	1.19 ± 0.12	2.30 ± 0.35*	0.96 ± 0.11	1.66 ± 0.26*	0.99 ± 0.11	1.91 ± 0.36*	LC/MS pos		
X-11422	N/D	N/D	N/D	1.08 ± 0.14	1.09 ± 0.08	1.09 ± 0.15	N/D	N/D	1.68 ± 0.43	1.17 ± 0.18	LC/MS neg		
X-11423	1.70 ± 0.36	1.74 ± 0.19	1.81 ± 0.24	1.55 ± 0.32	1.69 ± 0.27	2.27 ± 0.34*	1.41 ± 0.21	1.83 ± 0.37	1.78 ± 0.34	2.20 ± 0.72	LC/MS neg		
X-11429	1.18 ± 0.32	1.12 ± 0.15	1.64 ± 0.38*	1.38 ± 0.34	1.41 ± 0.20	2.01 ± 0.31*	1.61 ± 0.32	2.24 ± 0.48	1.43 ± 0.26	1.83 ± 0.44	LC/MS neg		
X-11431	N/D	N/D	N/D	1.38 ± 0.21	1.27 ± 0.17	1.20 ± 0.15	N/D	N/D	N/D	N/D	LC/MS neg		
X-11437	1.87 ± 0.49	3.05 ± 0.79	2.30 ± 0.66	7.12 ± 4.30	3.86 ± 1.00	2.65 ± 0.90	3.20 ± 1.03	7.24 ± 6.50	6.25 ± 2.50	9.55 ± 3.93	LC/MS neg		
X-11438	0.96 ± 0.12	0.91 ± 0.07	1.05 ± 0.16	0.71 ± 0.10	0.81 ± 0.07	1.32 ± 0.22*	0.88 ± 0.09	0.93 ± 0.14	1.04 ± 0.13	1.30 ± 0.37	LC/MS neg		
X-11440	1.00 ± 0.23*	2.25 ± 0.30	1.66 ± 0.42	0.95 ± 0.20	2.03 ± 0.32	2.20 ± 0.44	2.13 ± 0.32	1.13 ± 0.18	2.33 ± 0.44	1.24 ± 0.22	LC/MS neg		
X-11441	N/D	N/D	N/D	1.21 ± 0.23	0.98 ± 0.13	2.05 ± 0.52*	1.11 ± 0.13	1.29 ± 0.45	1.01 ± 0.17	1.46 ± 0.32	LC/MS neg		
X-11442	N/D	N/D	N/D	1.31 ± 0.25	1.07 ± 0.15	2.26 ± 0.53*	1.05 ± 0.11	1.10 ± 0.39	0.94 ± 0.15	1.36 ± 0.28	LC/MS neg		
X-11443	1.01 ± 0.33	1.35 ± 0.22	1.16 ± 0.34	1.65 ± 0.55	1.91 ± 0.33	2.32 ± 0.69	1.38 ± 0.33	1.18 ± 0.43	1.26 ± 0.24	1.80 ± 0.61	LC/MS neg		
X-11444	1.80 ± 0.72	3.33 ± 0.87	1.43 ± 0.46	1.73 ± 0.65	3.89 ± 1.23	1.72 ± 0.37	1.71 ± 0.25	1.00 ± 0.23	1.56 ± 0.25	1.79 ± 0.84	LC/MS neg		
X-11445	0.90 ± 0.23	1.84 ± 0.29	0.96 ± 0.18	0.98 ± 0.22*	2.26 ± 0.35	1.55 ± 0.26	1.01 ± 0.23	0.82 ± 0.15	1.41 ± 0.30	1.51 ± 0.36	LC/MS neg		
X-11450	1.09 ± 0.18	1.53 ± 0.17	1.47 ± 0.23	1.23 ± 0.24	1.47 ± 0.17	1.77 ± 0.27	1.42 ± 0.22	1.30 ± 0.31	1.33 ± 0.18	1.25 ± 0.28	LC/MS neg		
X-11452	0.99 ± 0.28	0.88 ± 0.11	0.53 ± 0.13	1.43 ± 0.33	1.02 ± 0.14	0.60 ± 0.15	N/D	N/D	1.29 ± 0.30	0.42 ± 0.09*	LC/MS neg		
X-11469	N/D	N/D	N/D	1.67 ± 0.50	1.41 ± 0.26	0.88 ± 0.17	1.86 ± 0.50	0.87 ± 0.14	N/D	N/D	LC/MS pos		
X-11470	0.84 ± 0.22	1.83 ± 0.34	0.73 ± 0.18*	1.30 ± 0.35	2.13 ± 0.48	1.07 ± 0.22	1.91 ± 0.34	1.20 ± 0.41	1.74 ± 0.43	1.77 ± 0.80	LC/MS neg		
X-11476	N/D	N/D	N/D	0.96 ± 0.05	1.01 ± 0.03	1.00 ± 0.05	N/D	N/D	1.05 ± 0.07	0.84 ± 0.07	LC/MS pos		
X-11478	0.87 ± 0.10	0.92 ± 0.07	0.68 ± 0.09	1.03 ± 0.10	1.04 ± 0.07	1.00 ± 0.12	1.44 ± 0.19	0.94 ± 0.13	1.08 ± 0.16	0.89 ± 0.17	LC/MS neg		
X-11483	N/D	N/D	N/D	1.22 ± 0.20	1.02 ± 0.12	0.85 ± 0.16	1.19 ± 0.26	0.84 ± 0.16	0.88 ± 0.15	0.71 ± 0.14	LC/MS neg		
X-11490	1.33 ± 0.32	1.84 ± 0.33	1.92 ± 0.42	1.51 ± 0.32	1.74 ± 0.31	6.05 ± 3.12	1.64 ± 0.32	2.53 ± 0.71	1.24 ± 0.23	2.22 ± 0.55	LC/MS neg		
X-11491	1.02 ± 0.22	1.21 ± 0.37	1.90 ± 0.54	1.36 ± 0.21	1.37 ± 0.29	2.78 ± 0.79	1.60 ± 0.38	2.04 ± 0.85	1.19 ± 0.19	1.50 ± 0.39	LC/MS neg		
X-11497	1.12 ± 0.26	1.20 ± 0.09	1.09 ± 0.18	2.16 ± 0.45	1.78 ± 0.22	0.92 ± 0.15	1.25 ± 0.19	1.08 ± 0.20	N/D	N/D	LC/MS neg		
X-11510	1.02 ± 0.18	1.16 ± 0.15	1.29 ± 0.23	0.91 ± 0.16	1.12 ± 0.19	1.48 ± 0.25	1.59 ± 0.35	1.46 ± 0.34	1.39 ± 0.35	1.22 ± 0.28	LC/MS neg		

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
X-11513	N/D	N/D	N/D	1.03 ± 0.18	0.92 ± 0.15	0.82 ± 0.25	0.81 ± 0.20	3.40 ± 1.63	0.60 ± 0.12	1.41 ± 0.43	LC/MS pos		
X-11521	1.24 ± 0.18	1.30 ± 0.22	1.95 ± 0.32	1.18 ± 0.15	1.15 ± 0.14	2.17 ± 0.38*	1.02 ± 0.15	1.28 ± 0.27	1.28 ± 0.17	1.50 ± 0.36	LC/MS pos		
X-11522	N/D	N/D	N/D	1.10 ± 0.23	0.91 ± 0.11	3.37 ± 1.16*	N/D	N/D	1.35 ± 0.22	2.50 ± 0.77	LC/MS neg		
X-11529	1.52 ± 0.33	1.50 ± 0.19	1.68 ± 0.49	1.46 ± 0.32	1.63 ± 0.22	1.47 ± 0.38	2.48 ± 0.69	2.56 ± 0.76	2.43 ± 0.71	2.50 ± 0.76	LC/MS neg		
X-11530	N/D	N/D	N/D	1.10 ± 0.19	0.98 ± 0.14	3.00 ± 0.85*	0.99 ± 0.11	1.42 ± 0.45	1.24 ± 0.20	2.71 ± 1.15	LC/MS neg		
X-11533	N/D	N/D	N/D	1.01 ± 0.02	0.99 ± 0.01	1.03 ± 0.02	N/D	N/D	1.09 ± 0.07	1.00 ± 0.02	LC/MS neg		
X-11537	N/D	N/D	N/D	N/D	N/D	N/D	0.91 ± 0.15	0.74 ± 0.12	0.83 ± 0.10	0.66 ± 0.13	LC/MS pos		
X-11538	1.74 ± 0.41	1.64 ± 0.21	4.37 ± 0.94*	1.67 ± 0.55	1.38 ± 0.13	4.69 ± 1.59*	1.08 ± 0.14	3.54 ± 1.52*	1.38 ± 0.43	8.24 ± 5.53*	LC/MS neg		
X-11542	N/D	N/D	N/D	1.01 ± 0.03	0.96 ± 0.02	1.01 ± 0.02	N/D	N/D	N/D	N/D	LC/MS pos		
X-11546	1.28 ± 0.33	3.86 ± 2.50	1.49 ± 0.35	1.63 ± 0.50	4.57 ± 2.67	1.71 ± 0.38	1.47 ± 0.37	4.83 ± 1.47*	1.35 ± 0.51	4.60 ± 1.72*	LC/MS neg		
X-11550	0.96 ± 0.06	1.04 ± 0.04	0.92 ± 0.07	1.06 ± 0.10	1.11 ± 0.07	1.03 ± 0.17	1.09 ± 0.08	0.91 ± 0.12	1.03 ± 0.06	0.83 ± 0.09	LC/MS neg		
X-11560	N/D	N/D	N/D	N/D	N/D	N/D	1.01 ± 0.11	0.95 ± 0.13	N/D	N/D	LC/MS neg		
X-11564	N/D	N/D	N/D	1.21 ± 0.29	1.16 ± 0.17	1.25 ± 0.15*	1.10 ± 0.20	1.16 ± 0.27	1.77 ± 0.32	2.20 ± 0.52	LC/MS neg		
X-11593	1.16 ± 0.23	1.81 ± 0.23	1.63 ± 0.22	1.18 ± 0.19	1.32 ± 0.15	1.49 ± 0.13*	1.35 ± 0.20	1.35 ± 0.25	1.25 ± 0.19	1.17 ± 0.23	LC/MS neg		
X-11687	1.25 ± 0.40	1.10 ± 0.14	1.46 ± 0.26*	1.40 ± 0.38	1.66 ± 0.31	2.83 ± 0.78*	1.54 ± 0.25	2.60 ± 0.75	1.40 ± 0.33	1.54 ± 0.40	LC/MS pos		
X-11727	1.31 ± 0.16	1.26 ± 0.10	0.97 ± 0.14	1.05 ± 0.10	1.13 ± 0.10	1.27 ± 0.12	1.26 ± 0.18	1.22 ± 0.17	1.31 ± 0.20	1.08 ± 0.16	LC/MS pos		
X-11786	1.27 ± 0.18	0.88 ± 0.08	0.87 ± 0.14	1.44 ± 0.13*	0.94 ± 0.07	0.90 ± 0.11	1.04 ± 0.10	1.24 ± 0.18	1.08 ± 0.10	1.18 ± 0.15	LC/MS pos		
X-11787	1.11 ± 0.09	0.99 ± 0.04	1.04 ± 0.11	1.09 ± 0.06	0.98 ± 0.04	1.05 ± 0.12	1.09 ± 0.10	0.89 ± 0.12	1.11 ± 0.08	0.81 ± 0.08	LC/MS pos		
X-11793	0.90 ± 0.11	1.19 ± 0.11	0.89 ± 0.09	1.02 ± 0.16	1.14 ± 0.11	1.24 ± 0.14	1.33 ± 0.13	1.11 ± 0.27	1.13 ± 0.14	1.33 ± 0.24	LC/MS pos		
X-11795	0.85 ± 0.16	0.87 ± 0.10	1.45 ± 0.67	1.17 ± 0.24	0.90 ± 0.08	1.22 ± 0.43	0.90 ± 0.12	1.39 ± 0.39	1.14 ± 0.15	1.66 ± 0.44	LC/MS pos		
X-11799	N/D	N/D	N/D	1.78 ± 0.40	1.11 ± 0.14	1.18 ± 0.44	1.83 ± 0.43	6.80 ± 3.28	0.94 ± 0.16	2.78 ± 1.57	LC/MS pos		
X-11809	1.12 ± 0.13	1.18 ± 0.09	1.20 ± 0.13	0.98 ± 0.08	1.15 ± 0.13	0.94 ± 0.09	0.96 ± 0.06	0.91 ± 0.14	1.09 ± 0.08	0.86 ± 0.09	LC/MS pos		
X-11818	N/D	N/D	N/D	1.08 ± 0.13	0.85 ± 0.06	0.78 ± 0.07	1.02 ± 0.10	0.80 ± 0.10	1.01 ± 0.08	0.97 ± 0.12	LC/MS pos		
X-11826	1.19 ± 0.31	6.17 ± 2.62	3.51 ± 1.39	3.07 ± 2.10	4.92 ± 1.97	3.38 ± 1.72	2.70 ± 0.90	2.38 ± 1.28	3.86 ± 1.32	3.43 ± 2.08	LC/MS neg		
X-11832	N/D	N/D	N/D	0.52 ± 0.20	1.61 ± 0.45	2.49 ± 1.05	N/D	N/D	1.17 ± 0.39	1.03 ± 0.31	LC/MS neg		
X-11837	N/D	N/D	N/D	N/D	N/D	N/D	1.55 ± 0.54	2.50 ± 1.47	1.56 ± 0.49	1.41 ± 0.82	LC/MS pos		
X-11838	0.92 ± 0.30	1.51 ± 0.24	1.62 ± 0.52	0.55 ± 0.26*	1.90 ± 0.28	1.37 ± 0.44	3.22 ± 0.94	1.74 ± 0.55	3.59 ± 0.92	2.34 ± 0.94	LC/MS neg		
X-11843	0.69 ± 0.19	1.62 ± 0.51	1.85 ± 0.73	1.14 ± 0.41	1.31 ± 0.39	3.68 ± 1.21*	0.96 ± 0.19	1.97 ± 1.23	1.77 ± 0.52	1.80 ± 1.11	LC/MS neg		
X-11845	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.84 ± 1.06	0.57 ± 0.14	LC/MS neg		
X-11847	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	2.93 ± 1.13	1.52 ± 0.82	LC/MS neg		
X-11849	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	5.73 ± 3.65	0.49 ± 0.10	LC/MS neg		
X-11850	1.50 ± 0.70	1.91 ± 0.63	1.20 ± 0.39	1.48 ± 0.49	1.52 ± 0.43	2.28 ± 0.62	1.73 ± 0.63	1.27 ± 0.65	1.89 ± 0.57	1.12 ± 0.53	LC/MS neg		
X-11853	0.96 ± 0.05	0.99 ± 0.03	1.00 ± 0.06	0.96 ± 0.04	0.99 ± 0.03	0.96 ± 0.06	N/D	N/D	N/D	N/D	LC/MS neg		
X-11859	0.99 ± 0.05	1.01 ± 0.03	0.93 ± 0.05	1.01 ± 0.08	0.99 ± 0.05	0.86 ± 0.08	N/D	N/D	1.08 ± 0.07	0.87 ± 0.09	LC/MS neg		
X-11861	N/D	N/D	N/D	1.07 ± 0.06	0.99 ± 0.03	1.03 ± 0.04	N/D	N/D	1.15 ± 0.11	0.98 ± 0.03	LC/MS neg		
X-11868	N/D	N/D	N/D	0.95 ± 0.06	0.94 ± 0.03	1.06 ± 0.05	N/D	N/D	0.81 ± 0.07	0.78 ± 0.07	LC/MS neg		
X-11880	1.40 ± 0.17	1.28 ± 0.14	1.16 ± 0.30	1.44 ± 0.28	1.12 ± 0.14	0.94 ± 0.20	1.37 ± 0.20	1.23 ± 0.23	1.28 ± 0.16	1.22 ± 0.31	LC/MS neg		
X-11903	N/D	N/D	N/D	N/D	N/D	N/D	1.34 ± 0.48	1.81 ± 1.04	1.53 ± 0.54	1.64 ± 1.18	LC/MS neg		
X-11945	N/D	N/D	N/D	0.79 ± 0.17	1.24 ± 0.19	1.44 ± 0.24*	1.69 ± 0.36	1.55 ± 0.41	1.66 ± 0.36	1.57 ± 0.44	LC/MS pos		
X-11977	N/D	N/D	N/D	0.97 ± 0.18	1.28 ± 0.13	1.52 ± 0.27	1.47 ± 0.21	1.28 ± 0.17	0.97 ± 0.10	0.75 ± 0.08	LC/MS pos		
X-12007	N/D	N/D	N/D	2.33 ± 0.99	1.84 ± 0.40	1.03 ± 0.20	N/D	N/D	2.54 ± 0.99	1.26 ± 0.43	LC/MS neg		
X-12029	0.90 ± 0.04	1.00 ± 0.02	0.88 ± 0.05	1.09 ± 0.05	1.01 ± 0.03	0.97 ± 0.06	N/D	N/D	1.02 ± 0.03	0.93 ± 0.04	LC/MS neg		
X-12038	1.18 ± 0.13	1.15 ± 0.07	0.92 ± 0.09	1.24 ± 0.16	1.29 ± 0.10	0.84 ± 0.12*	N/D	N/D	1.06 ± 0.10	0.87 ± 0.18	LC/MS neg		
X-12051	1.84 ± 0.28	2.07 ± 0.46	1.52 ± 0.34	1.21 ± 0.12	0.96 ± 0.06	0.85 ± 0.07	N/D	N/D	1.65 ± 0.23	1.30 ± 0.24	LC/MS pos		
X-12063	N/D	N/D	N/D	N/D	N/D	N/D	0.90 ± 0.13	0.58 ± 0.10	1.17 ± 0.19	1.36 ± 0.23	LC/MS neg		
X-12092	1.28 ± 0.26	1.67 ± 0.21	2.17 ± 0.60	1.28 ± 0.28	1.66 ± 0.23	1.82 ± 0.36	1.40 ± 0.23	1.77 ± 0.36	1.44 ± 0.24	1.64 ± 0.40	LC/MS pos		
X-12094	N/D	N/D	N/D	1.34 ± 0.25	1.20 ± 0.17	2.38 ± 0.48*	N/D	N/D	1.58 ± 0.31	2.23 ± 0.68	LC/MS pos		
X-12095	1.48 ± 0.23*	0.98 ± 0.10	2.04 ± 0.32*	1.36 ± 0.25	1.07 ± 0.14	1.97 ± 0.39*	1.71 ± 0.33	2.24 ± 0.63	1.36 ± 0.22	1.87 ± 0.53	LC/MS pos		
X-12096	N/D	N/D	N/D	N/D	N/D	N/D	1.07 ± 0.30	1.64 ± 0.63	1.19 ± 0.31	1.11 ± 0.32	LC/MS pos		
X-12099	1.00 ± 0.13	1.06 ± 0.08	1.36 ± 0.22*	1.17 ± 0.10	1.06 ± 0.08	1.44 ± 0.21*	N/D	N/D	N/D	N/D	LC/MS pos		
X-12100	1.51 ± 0.32	1.70 ± 0.19	1.74 ± 0.36	1.11 ± 0.20	1.44 ± 0.18	1.53 ± 0.27	1.18 ± 0.15	1.09 ± 0.21	1.12 ± 0.14	1.17 ± 0.22	LC/MS pos		
X-12101	1.63 ± 0.34	2.00 ± 0.40	2.05 ± 0.49	0.92 ± 0.14	1.32 ± 0.20	1.75 ± 0.36*	1.75 ± 0.39	1.52 ± 0.32	1.74 ± 0.34	1.33 ± 0.30	LC/MS pos		

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
X-12104	1.00 ± 0.13	1.28 ± 0.15	1.19 ± 0.16	0.90 ± 0.12	1.11 ± 0.11	1.29 ± 0.20*	1.17 ± 0.15	1.32 ± 0.35	1.31 ± 0.20	1.41 ± 0.37	LC/MS pos		
X-12117	1.84 ± 0.62	2.77 ± 0.49	2.35 ± 0.61	1.65 ± 0.55	2.47 ± 0.54	2.51 ± 0.59*	3.12 ± 0.81	4.18 ± 1.47	2.04 ± 0.59	2.08 ± 0.66	LC/MS pos		
X-12119	N/D	N/D	N/D	N/D	N/D	N/D	0.78 ± 0.14	0.82 ± 0.17	1.22 ± 0.21	1.09 ± 0.23	LC/MS pos		
X-12125	N/D	N/D	N/D	1.37 ± 0.40	1.47 ± 0.38	1.32 ± 0.32	1.05 ± 0.30	1.91 ± 0.82	1.26 ± 0.45	1.91 ± 1.17	LC/MS pos		
X-12127	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.24 ± 0.25	1.03 ± 0.21	LC/MS pos		
X-12128	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.77 ± 0.06	0.88 ± 0.17	LC/MS pos		
X-12170	N/D	N/D	N/D	N/D	N/D	N/D	1.16 ± 0.16	1.13 ± 0.35	N/D	N/D	LC/MS pos		
X-12173	N/D	N/D	N/D	N/D	N/D	N/D	0.98 ± 0.21	1.31 ± 0.37	1.07 ± 0.25	0.79 ± 0.19	LC/MS pos		
X-12199	1.40 ± 0.42	1.38 ± 0.20	1.03 ± 0.26	N/D	N/D	N/D	N/D	N/D	1.02 ± 0.12	0.60 ± 0.09	LC/MS pos		
X-12206	1.04 ± 0.31	1.01 ± 0.19	1.17 ± 0.19	1.39 ± 0.34	1.23 ± 0.20	1.58 ± 0.21*	0.91 ± 0.17	1.00 ± 0.18	1.90 ± 0.45	1.74 ± 0.51	LC/MS neg		
X-12216	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.81 ± 0.22	1.59 ± 0.91	LC/MS neg		
X-12217	2.75 ± 1.12	2.11 ± 0.45	1.13 ± 0.32	2.12 ± 1.14	5.02 ± 1.59	3.69 ± 1.48	N/D	N/D	4.78 ± 1.96	2.67 ± 1.62	LC/MS neg		
X-12231	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.04 ± 0.23	0.35 ± 0.07*	LC/MS neg		
X-12244	N/D	N/D	N/D	1.35 ± 0.28	1.44 ± 0.18	1.17 ± 0.27	N/D	N/D	1.28 ± 0.16	0.83 ± 0.07	LC/MS pos		
X-12261	N/D	N/D	N/D	0.72 ± 0.22	0.67 ± 0.11	3.07 ± 1.14*	N/D	N/D	1.69 ± 0.49	1.64 ± 0.85	LC/MS neg		
X-12262	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.06 ± 0.17	1.73 ± 0.78	LC/MS neg		
X-12358	N/D	N/D	N/D	N/D	N/D	N/D	2.07 ± 0.65	2.95 ± 1.80	1.44 ± 0.32	1.72 ± 0.70	LC/MS pos		
X-12405	1.60 ± 0.55	1.96 ± 0.33	1.30 ± 0.36	0.99 ± 0.24	1.82 ± 0.34	2.04 ± 0.58	1.46 ± 0.32	1.58 ± 0.45	2.19 ± 0.63	1.34 ± 0.34	LC/MS neg		
X-12421	N/D	N/D	N/D	1.24 ± 0.19	0.90 ± 0.06	0.78 ± 0.09	N/D	N/D	N/D	N/D	LC/MS pos		
X-12422	1.34 ± 0.27	1.25 ± 0.20	1.11 ± 0.26	1.43 ± 0.19	1.11 ± 0.09	0.94 ± 0.12	N/D	N/D	0.76 ± 0.14	0.61 ± 0.20	LC/MS pos		
X-12428	N/D	N/D	N/D	1.05 ± 0.35	1.86 ± 0.65	1.56 ± 0.61	2.03 ± 0.53	1.29 ± 0.63	2.09 ± 0.61	1.91 ± 0.95	LC/MS neg		
X-12440	0.99 ± 0.07	0.96 ± 0.04	1.01 ± 0.06	N/D	N/D	N/D	N/D	N/D	1.48 ± 0.17	0.91 ± 0.16	LC/MS neg		
X-12442	1.81 ± 0.34	1.09 ± 0.09	1.76 ± 0.32	1.38 ± 0.35	1.09 ± 0.09	1.89 ± 0.39	0.99 ± 0.10	1.21 ± 0.14	1.28 ± 0.26	1.70 ± 0.46	LC/MS neg		
X-12443	N/D	N/D	N/D	1.65 ± 0.94	1.50 ± 0.34	0.57 ± 0.12	N/D	N/D	0.61 ± 0.10	0.62 ± 0.12	LC/MS neg		
X-12450	1.54 ± 0.33	1.07 ± 0.11	1.03 ± 0.15	N/D	N/D	N/D	N/D	N/D	1.10 ± 0.07	1.07 ± 0.09	LC/MS neg		
X-12458	0.79 ± 0.12	0.74 ± 0.08	1.01 ± 0.10*	1.06 ± 0.18	0.95 ± 0.09	1.32 ± 0.16*	N/D	N/D	0.89 ± 0.09	1.36 ± 0.25	LC/MS pos		
X-12459	N/D	N/D	N/D	N/D	N/D	N/D	1.33 ± 0.41	1.10 ± 0.41	N/D	N/D	LC/MS pos		
X-12465	3.20 ± 1.64	1.19 ± 0.17	1.98 ± 0.33*	1.35 ± 0.39	1.20 ± 0.16	2.19 ± 0.41*	1.41 ± 0.47	1.68 ± 0.42	1.47 ± 0.28	1.78 ± 0.46	LC/MS pos		
X-12510	1.35 ± 0.22*	0.93 ± 0.08	0.89 ± 0.15	1.08 ± 0.19	0.80 ± 0.06	0.83 ± 0.16	0.91 ± 0.12	1.26 ± 0.22	1.17 ± 0.15	1.63 ± 0.45	LC/MS pos		
X-12537	3.11 ± 0.90	1.58 ± 0.24	1.04 ± 0.17	N/D	N/D	N/D	1.09 ± 0.19	1.04 ± 0.27	N/D	N/D	GC/MS		
X-12542	0.73 ± 0.09	0.89 ± 0.08	0.67 ± 0.07	N/D	N/D	N/D	N/D	N/D	N/D	N/D	LC/MS pos		
X-12556	1.02 ± 0.08	1.03 ± 0.10	1.35 ± 0.16*	N/D	N/D	N/D	1.02 ± 0.11	1.11 ± 0.13	1.06 ± 0.12	1.23 ± 0.19	GC/MS		
X-12611	1.62 ± 0.53	1.76 ± 0.23	2.43 ± 0.49*	1.09 ± 0.30	1.43 ± 0.20	2.55 ± 0.38*	N/D	N/D	N/D	N/D	LC/MS pos		
X-12644	1.21 ± 0.19*	0.64 ± 0.05	0.80 ± 0.11	1.50 ± 0.20*	0.96 ± 0.10	0.59 ± 0.08	1.26 ± 0.14	1.10 ± 0.15	1.18 ± 0.11	1.13 ± 0.18	LC/MS neg		
X-12660	1.24 ± 0.18	1.17 ± 0.18	0.85 ± 0.15	1.50 ± 0.28	1.04 ± 0.13	0.94 ± 0.15	N/D	N/D	2.33 ± 0.50	1.45 ± 0.38	LC/MS pos		
X-12681	N/D	N/D	N/D	N/D	N/D	N/D	0.72 ± 0.10	1.19 ± 0.28	0.82 ± 0.07	1.13 ± 0.24	LC/MS pos		
X-12683	N/D	N/D	N/D	N/D	N/D	N/D	1.13 ± 0.29	1.57 ± 0.56	N/D	N/D	LC/MS pos		
X-12686	N/D	N/D	N/D	N/D	N/D	N/D	0.95 ± 0.09	1.14 ± 0.24	0.88 ± 0.11	0.68 ± 0.10	LC/MS pos		
X-12688	1.02 ± 0.25	1.54 ± 0.21	1.67 ± 0.30	0.94 ± 0.22	1.30 ± 0.19	1.66 ± 0.31*	1.36 ± 0.40	1.92 ± 0.68	1.35 ± 0.41	1.05 ± 0.29	LC/MS pos		
X-12690	0.79 ± 0.23	0.84 ± 0.10	1.10 ± 0.21*	N/D	N/D	N/D	1.00 ± 0.13	1.30 ± 0.24	0.82 ± 0.10	1.06 ± 0.17	LC/MS pos		
X-12695	1.76 ± 0.70	2.35 ± 0.63	1.60 ± 0.36	1.68 ± 0.44	2.21 ± 0.59	1.97 ± 0.32*	N/D	N/D	N/D	N/D	LC/MS neg		
X-12707	1.04 ± 0.30	0.77 ± 0.11	1.06 ± 0.18*	N/D	N/D	N/D	N/D	N/D	1.59 ± 0.50	2.03 ± 0.57	LC/MS neg		
X-12728	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.96 ± 0.09	0.96 ± 0.10	LC/MS neg		
X-12739	N/D	N/D	N/D	N/D	N/D	N/D	0.80 ± 0.12	1.37 ± 0.56	N/D	N/D	LC/MS neg		
X-12742	1.60 ± 0.52	2.73 ± 0.94	1.97 ± 0.73	1.24 ± 0.55	2.71 ± 0.72	2.41 ± 0.92	2.02 ± 0.51	1.82 ± 0.61	2.13 ± 0.60	2.27 ± 1.03	LC/MS neg		
X-12749	0.88 ± 0.23	0.90 ± 0.11	1.01 ± 0.16	0.89 ± 0.20	0.90 ± 0.14	1.12 ± 0.22	1.29 ± 0.22	1.88 ± 0.31	1.36 ± 0.22	1.72 ± 0.35	LC/MS pos		
X-12756	N/D	N/D	N/D	0.33 ± 0.17*	1.08 ± 0.15	0.61 ± 0.17	N/D	N/D	2.57 ± 0.80	1.40 ± 0.46	LC/MS pos		
X-12765	N/D	N/D	N/D	N/D	N/D	N/D	3.12 ± 1.09	2.34 ± 0.87	2.20 ± 0.94	1.41 ± 0.47	LC/MS pos		
X-12775	0.95 ± 0.24	1.06 ± 0.13	1.19 ± 0.22	0.72 ± 0.09	1.30 ± 0.21	1.27 ± 0.19	2.15 ± 1.08	1.45 ± 0.38	1.57 ± 0.31	1.41 ± 0.38	LC/MS pos		
X-12776	0.87 ± 0.13	1.06 ± 0.06	1.01 ± 0.09	N/D	N/D	N/D	0.99 ± 0.03	1.06 ± 0.04	1.03 ± 0.02	1.01 ± 0.03	LC/MS neg		
X-12786	1.44 ± 0.22*	0.89 ± 0.07	1.84 ± 0.40*	0.79 ± 0.12	0.76 ± 0.06	1.41 ± 0.24*	0.72 ± 0.10	0.89 ± 0.21	1.10 ± 0.18	1.42 ± 0.21	GC/MS		
X-12792	N/D	N/D	N/D	1.10 ± 0.07	1.10 ± 0.05	1.02 ± 0.13	N/D	N/D	N/D	N/D	LC/MS pos		

Biochemical	t0 SIRS+	t0 Sepsis Survivors	t0 sepsis nonsurvivor	t24 SIRS+	t24 Sepsis Survivors	t24 sepsis nonsurvivor	validation t0 Sepsis Survivors	Validation t0 sepsis nonsurvivor	Validation t24 Sepsis Survivors	Validation t24 sepsis nonsurvivor	PLATFORM	KEGG ID	HMDB ID
X-12794	0.66 ± 0.21	1.08 ± 0.18	1.57 ± 0.53	0.54 ± 0.13*	1.34 ± 0.22	1.54 ± 0.37	N/D	N/D	0.84 ± 0.22	0.83 ± 0.24	LC/MS pos		
X-12802	1.04 ± 0.22	1.63 ± 0.23	3.10 ± 0.59*	0.92 ± 0.21	1.93 ± 0.37	3.97 ± 0.72*	1.21 ± 0.20	2.66 ± 0.65	1.27 ± 0.26	2.13 ± 0.55	LC/MS pos		
X-12822	N/D	N/D	N/D	0.99 ± 0.19	0.94 ± 0.09	1.44 ± 0.27*	N/D	N/D	1.24 ± 0.22	1.46 ± 0.29	LC/MS neg		
X-12824	N/D	N/D	N/D	N/D	N/D	N/D	1.18 ± 0.20	1.14 ± 0.27	1.19 ± 0.26	1.61 ± 0.55	LC/MS neg		
X-12844	1.58 ± 0.67	1.49 ± 0.20	1.04 ± 0.16	1.30 ± 0.38	1.64 ± 0.28	1.42 ± 0.23	1.47 ± 0.23	1.13 ± 0.17	1.76 ± 0.30	1.61 ± 0.55	LC/MS neg		
X-12846	N/D	N/D	N/D	0.85 ± 0.29	2.97 ± 1.23	2.16 ± 0.51	1.63 ± 0.38	1.88 ± 0.76	2.09 ± 0.58	2.06 ± 0.80	LC/MS neg		
X-12847	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.20 ± 0.29	0.72 ± 0.13	LC/MS neg		
X-12849	1.56 ± 0.55	1.94 ± 0.41	1.21 ± 0.23	N/D	N/D	N/D	N/D	N/D	N/D	N/D	LC/MS neg		
X-12850	2.36 ± 0.91	1.57 ± 0.35	4.55 ± 1.42	2.90 ± 1.05	1.76 ± 0.30	4.44 ± 1.21	3.47 ± 1.15	5.51 ± 1.74	2.16 ± 0.74	3.17 ± 0.74	LC/MS neg		
X-12851	N/D	N/D	N/D	0.96 ± 0.37	1.46 ± 0.48	3.22 ± 0.91*	N/D	N/D	N/D	N/D	LC/MS neg		
X-12855	1.53 ± 0.40	0.92 ± 0.11	1.82 ± 0.26*	1.17 ± 0.20	0.99 ± 0.10	2.22 ± 0.33*	0.74 ± 0.08	1.20 ± 0.28	0.96 ± 0.12	1.40 ± 0.29	LC/MS pos		
X-12860	1.11 ± 0.26	0.79 ± 0.09	1.20 ± 0.16*	1.01 ± 0.22	1.01 ± 0.12	1.64 ± 0.26*	0.60 ± 0.11	1.28 ± 0.27	0.99 ± 0.13	1.75 ± 0.51	LC/MS pos		
X-12990	1.27 ± 0.16	1.02 ± 0.07	1.21 ± 0.13	1.50 ± 0.24	0.97 ± 0.07	1.10 ± 0.19	0.78 ± 0.11	0.83 ± 0.21	0.97 ± 0.07	0.92 ± 0.15	LC/MS neg		
X-13152	N/D	N/D	N/D	N/D	N/D	N/D	0.94 ± 0.14	1.89 ± 0.65	0.91 ± 0.10	1.55 ± 0.42	LC/MS pos		
X-13429	0.76 ± 0.27	1.54 ± 0.32	0.77 ± 0.21	0.80 ± 0.22	2.00 ± 0.36	1.85 ± 0.81	4.69 ± 2.26	3.32 ± 1.50	1.86 ± 0.71	1.53 ± 0.44	LC/MS neg		
X-13435	1.54 ± 0.19	1.18 ± 0.11	1.99 ± 0.28*	N/D	N/D	N/D	N/D	N/D	0.99 ± 0.11	1.91 ± 0.36*	LC/MS pos		
X-13465	N/D	N/D	N/D	1.28 ± 0.33	2.06 ± 0.41	3.17 ± 0.74*	N/D	N/D	N/D	N/D	LC/MS neg		
X-13543	N/D	N/D	N/D	N/D	N/D	N/D	1.20 ± 0.26	0.56 ± 0.05	N/D	N/D	LC/MS pos		
X-13553	1.64 ± 0.39	1.25 ± 0.20	2.88 ± 0.50*	1.22 ± 0.23	1.62 ± 0.36	4.35 ± 0.86*	1.25 ± 0.30	1.78 ± 0.36	2.09 ± 0.56	4.01 ± 1.04	LC/MS neg		
X-13619	0.99 ± 0.08	1.06 ± 0.05	0.91 ± 0.07	1.07 ± 0.08	0.96 ± 0.04	0.81 ± 0.06	0.96 ± 0.09	0.98 ± 0.13	1.03 ± 0.05	0.92 ± 0.09	GC/MS		
X-13684	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.87 ± 0.11	0.89 ± 0.15	LC/MS pos		
X-13687	N/D	N/D	N/D	N/D	N/D	N/D	1.09 ± 0.28	1.25 ± 0.53	1.55 ± 0.34	1.67 ± 0.62	LC/MS pos		
X-13727	N/D	N/D	N/D	1.57 ± 0.67	2.44 ± 0.87	5.23 ± 2.31	N/D	N/D	1.98 ± 0.60	1.17 ± 0.26	LC/MS neg		
X-13751	1.03 ± 0.04	0.98 ± 0.02	0.97 ± 0.04	0.97 ± 0.04	0.97 ± 0.02	1.03 ± 0.04	N/D	N/D	N/D	N/D	LC/MS pos		
X-13852	N/D	N/D	N/D	N/D	N/D	N/D	2.69 ± 0.61	3.37 ± 1.09	1.58 ± 0.31	2.23 ± 0.68	LC/MS pos		
X-13871	N/D	N/D	N/D	N/D	N/D	N/D	1.02 ± 0.13	1.28 ± 0.27	1.08 ± 0.15	1.28 ± 0.36	LC/MS pos		
X-14056	N/D	N/D	N/D	N/D	N/D	N/D	1.06 ± 0.09	1.32 ± 0.28	0.96 ± 0.13	1.17 ± 0.20	LC/MS pos		
X-14091	N/D	N/D	N/D	N/D	N/D	N/D	1.22 ± 0.17	1.60 ± 0.32	N/D	N/D	LC/MS neg		
X-14318	N/D	N/D	N/D	N/D	N/D	N/D	0.87 ± 0.20	0.89 ± 0.28	N/D	N/D	LC/MS pos		
X-14473	N/D	N/D	N/D	N/D	N/D	N/D	1.18 ± 0.24	1.22 ± 0.34	1.02 ± 0.14	1.11 ± 0.29	LC/MS pos		
X-14561	N/D	N/D	N/D	N/D	N/D	N/D	2.19 ± 0.57	0.83 ± 0.08	N/D	N/D	LC/MS neg		
X-14584	N/D	N/D	N/D	N/D	N/D	N/D	0.86 ± 0.16	1.37 ± 0.24	0.90 ± 0.16	0.81 ± 0.17	LC/MS neg		
X-14588	0.94 ± 0.04	0.98 ± 0.02	1.16 ± 0.06*	0.91 ± 0.04	0.98 ± 0.03	1.14 ± 0.03*	1.01 ± 0.04	1.04 ± 0.05	1.01 ± 0.03	1.06 ± 0.05	LC/MS neg		
X-14625	N/D	N/D	N/D	1.33 ± 0.15	1.13 ± 0.08	1.00 ± 0.11	N/D	N/D	1.09 ± 0.07	1.14 ± 0.11	LC/MS neg		
X-14626	0.84 ± 0.42	1.41 ± 0.32	0.46 ± 0.15*	0.54 ± 0.11*	2.23 ± 0.49	1.36 ± 0.49	4.74 ± 2.21	4.29 ± 2.62	2.29 ± 0.93	3.15 ± 1.56	LC/MS neg		
X-14632	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.98 ± 0.23	1.16 ± 0.29	LC/MS neg		
X-14658	2.36 ± 0.88	2.34 ± 0.62	9.79 ± 3.94	4.29 ± 2.91	2.35 ± 0.59	11.58 ± 3.51*	3.17 ± 1.40	10.16 ± 4.78	2.06 ± 0.62	6.48 ± 2.07	LC/MS neg		
X-14662	1.29 ± 0.30	5.33 ± 3.94	2.79 ± 0.72	2.28 ± 0.99	11.40 ± 10.12	3.36 ± 1.39	1.78 ± 0.73	6.92 ± 2.29*	1.13 ± 0.29	4.43 ± 1.50*	LC/MS neg		
X-14663	1.21 ± 0.67	2.30 ± 1.21	2.67 ± 0.95	1.84 ± 0.78	12.00 ± 10.78	3.65 ± 1.46	1.15 ± 0.36	5.73 ± 2.21*	1.46 ± 0.55	7.65 ± 2.84*	LC/MS neg		
X-14837	N/D	N/D	N/D	N/D	N/D	N/D	1.33 ± 0.68	1.00 ± 0.25	3.01 ± 2.30	1.43 ± 0.51	LC/MS pos		
X-14842	N/D	N/D	N/D	N/D	N/D	N/D	0.98 ± 0.05	0.91 ± 0.15	N/D	N/D	GC/MS		
xanthine	1.40 ± 0.18	1.04 ± 0.06	1.35 ± 0.17	0.90 ± 0.10	0.87 ± 0.05	0.90 ± 0.12	1.10 ± 0.24	0.86 ± 0.08	1.24 ± 0.26	0.88 ± 0.12	LC/MS pos	C00385	HMDB00292
xylonate	2.04 ± 0.54	2.48 ± 0.49	2.47 ± 0.57	1.63 ± 0.46	1.70 ± 0.39	1.99 ± 0.36*	N/D	N/D	1.79 ± 0.41	1.79 ± 0.53	GC/MS	C00502 C05411	
xylose	2.13 ± 0.68	1.28 ± 0.20	1.53 ± 0.37	1.14 ± 0.27	0.98 ± 0.14	0.96 ± 0.15	N/D	N/D	1.32 ± 0.25	1.23 ± 0.31	GC/MS	C00181	HMDB00098

Table S4. Normalized factor scores of Bayesian factor analysis for normal renal function (eGFR≥75 ml/min). Sepsis outcomes [SIRS+, uncomplicated sepsis (UCS), sepsis survivor (SS), septic shock (SS) and sepsis nonsurvivor(SNS)], etiologic agents and clinical parameters were fit to a normal distribution with mean of 0 and standard deviation of 1. Normal renal function (eGFR ≥75 mL/min) at t0 (n = 44) and t24 (n = 36). Individual metabolite factor score ≥ 0.1 or ≤ -0.1 was considered significant (designated by *).

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
glycine	t0	-0.0055	-0.0135	-0.0139	0.0221	0.2755*	0.0375	0.0217	-0.0483	-0.0279	-0.0109	0.023	0.0753	0.0096	0.0419
	t24	0.0625	-0.0255	0.01	0.0141	-0.0162	0.0361	0.0363	-0.0259	0.0214	0.0831	0.0184	0.0257	0.0405	0.0196
N-acetylglycine	t0	-0.0914	-0.0359	-0.0138	0.0267	0.1554*	0.1209*	-0.0015	-0.0208	-0.0089	-0.0366	-0.0359	0.0415	0.0207	0.2169*
	t24	-0.005	-0.0196	0.1300*	-0.014	0.0155	-0.0115	0.0392	0.0156	-0.0081	0.0114	-0.0135	-0.0672	-0.0381	-0.0072
serine	t0	-0.0215	-0.0581	0.0336	0.1025*	-0.0459	0.033	0.0053	0.0547	0.0029	-0.0113	-0.0411	-0.0263	0.02	-0.0236
	t24	-0.0157	0.1720*	0.0444	-0.0539	-0.0625	0.0298	-0.036	0.0889	-0.0033	0.0357	0.0092	0.0369	-0.0094	-0.0547
threonine	t0	0.0015	-0.0128	-0.0154	0.018	0.003	0.0163	-0.0002	-0.0549	-0.0107	0.1553*	0.008	-0.0165	-0.0106	-0.0105
	t24	0.0026	0.0086	0.0256	-0.0356	-0.0128	0.0339	0.0047	-0.0515	0.0528	0.1069*	0.067	-0.0356	0.0247	0.0104
N-acetylthreonine	t0	-0.0579	-0.0612	0.0002	0.0447	0.0052	0.0222	0.0213	-0.0092	-0.0096	-0.0189	-0.0059	0.0528	-0.0072	0.0107
	t24	-0.0183	-0.066	-0.1100*	0.1073*	0.1158*	0.1671*	0.0071	-0.0169	-0.0115	-0.0303	-0.0582	0.2608*	0.018	-0.0024
betaine	t0	0.03	-0.0187	-0.0032	0.0057	0.0088	-0.0108	0.0746	0.0121	0.024	0.0265	0.6048*	0.0052	0.0571	0.0002
	t24	0.0189	-0.0144	-0.024	0.0236	-0.0178	-0.0213	0.0919	0.024	0.0266	-0.0276	0.2915*	-0.0052	0.1682*	0.0143
alanine	t0	0.046	0.0547	-0.0076	-0.1501*	-0.0432	-0.0184	0.0408	-0.0385	-0.0149	0.0114	-0.0032	0.0404	0.0038	-0.0066
	t24	0.0979	-0.0218	0.0245	0.0155	-0.0418	-0.0046	-0.0053	-0.0052	-0.0314	0.0616	0.0034	0.0089	0.0191	0.0019
aspartate	t0	0.024	-0.0185	0.0274	0.0259	-0.1624*	0.0153	-0.0215	-0.0764	0.0191	0.0017	-0.1022*	0.0015	0.0403	-0.0321
	t24	-0.0414	0.022	-0.0213	-0.0431	0.0565	0.1263*	-0.0186	0.0198	-0.0608	-0.0072	-0.018	0.1444*	-0.0218	0.1296*
N-acetylaspartate (NAA)	t0	0.0972	-0.0296	-0.001	0.0081	-0.0183	-0.0693	0.0108	-0.0413	-0.0021	0.0024	0.0107	-0.044	-0.0197	0.0282
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
asparagine	t0	0.0111	0.0129	-0.0017	-0.0143	0.0068	0.0911	0.1178*	-0.0879	0.0016	0.1044*	0.0195	0.0378	-0.0143	-0.0076
	t24	0.029	-0.0364	0.0582	-0.009	-0.024	0.0005	0.0511	-0.0592	-0.0312	0.4097*	0.0565	0.0151	0.0201	-0.0002
glutamate	t0	0.1275*	-0.0615	0.0229	0.0308	-0.0739	-0.015	-0.061	0.0179	0.0121	-0.052	-0.0218	0.0549	0.0581	-0.036
	t24	0.0058	0.0384	-0.0328	-0.0805	0.0257	-0.0025	-0.0142	0.0602	-0.0063	-0.0806	-0.0055	0.4997*	0.0037	0.03
glutamine	t0	0.0086	-0.0425	-0.023	0.0072	0.0984	0.0051	0.0633	-0.0601	0.0146	0.1284*	0.0033	0.0571	0.0411	0.0057
	t24	0.031	-0.0051	0.0056	0.0041	-0.0325	-0.004	-0.0045	-0.0106	0.0082	0.1453*	-0.0472	0.0096	-0.0032	0.0227
pyroglutamine	t0	0.024	-0.0164	0.0371	-0.1762*	0.0246	0.0739	-0.1230*	-0.013	-0.0202	0.0301	0.0464	0.0156	0.0899	-0.0536
	t24	0.0288	-0.0312	-0.0117	-0.1969*	0.2580*	0.0636	-0.0951	-0.0199	-0.036	-0.0099	-0.0052	0.0969	0.0198	0.0034
histidine	t0	0.0031	-0.0057	0.0019	-0.0121	0.0125	0.0157	0.0745	-0.095	-0.0013	0.1236*	0.0084	-0.0109	0.0534	-0.0243
	t24	0.0165	0.0168	0.0392	-0.0782	-0.0197	0.0903	0.0115	-0.0158	0.0036	0.0092	0.2520*	-0.0042	-0.0026	0.001
3-methylhistidine	t0	0.0002	0.005	0.0316	0.0088	-0.0423	-0.0215	0.1655*	-0.0041	-0.0572	-0.0574	-0.0225	0.0667	0.0741	0.0627
	t24	0.061	0.1106*	-0.0552	0.0179	-0.1036*	0.0137	0.0367	-0.0084	-0.0228	-0.0546	-0.0141	-0.0079	0.2661*	0.0073
1-methylimidazoleacetate	t0	-0.0471	-0.0335	0.0031	0.0652	0.1323*	0.0039	-0.033	-0.0192	0.0252	0.0649	0.0158	-0.0272	0.0552	0.0335
	t24	-0.0692	-0.0522	0.0195	0.0149	0.2650*	0.062	-0.0458	-0.0281	0.0037	0.0055	-0.0003	0.0525	0.0243	0.0898
lysine	t0	0.0089	-0.1041*	0.015	0.0844	-0.0125	0.0076	0.0017	0.1790*	0.001	-0.0192	-0.061	-0.0144	-0.0137	-0.0206
	t24	-0.0082	0.019	0.012	-0.0504	0.0279	0.0474	-0.0307	0.1234*	-0.0195	-0.0398	-0.0062	0.4563*	-0.0792	0.0389
pipecolate	t0	0.0588	-0.0532	-0.0542	0.1372*	0.0049	-0.0337	0.0459	-0.0115	0.0301	0	0.0484	-0.0108	0.0128	-0.004
	t24	-0.0087	-0.0826	0.0045	0.0795	-0.0243	0.0331	0.0345	-0.0134	0.2712*	-0.0196	0.0439	0.0316	0.0418	0.0044
phenyllactate (PLA)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0416	-0.0421	0.0365	-0.017	0.1443*	0.1066*	0.0299	-0.015	-0.0026	0.0122	0.0104	0.4686*	0.0234	0.0094
phenylalanine	t0	-0.0369	0.0438	0.0177	0.0008	-0.015	0.1385*	0.0161	-0.0061	-0.0006	0.1544*	0.0254	0.0332	-0.0227	-0.095
	t24	-0.0453	0.0214	0.0391	-0.0591	0.007	0.4220*	-0.0461	-0.0101	-0.0973	0.0671	0.0368	0.0661	0.0427	0.0062
phenylacetate	t0	0.0542	-0.007	-0.0036	0.0297	-0.0581	-0.0061	-0.0076	0.002	0.0483	-0.0395	-0.1070*	0.1197*	0.0134	0.024
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
p-cresol sulfate	t0	-0.0021	-0.0468	-0.0667	0.0586	0.0101	-0.0216	0.0343	0.0133	-0.0033	-0.0245	-0.3146*	-0.0218	-0.1117*	-0.0253
	t24	0.0201	-0.0252	-0.0787	0.0104	0.0415	0.0032	0.0316	0.0083	-0.0122	-0.0816	-0.0998	-0.0034	-0.0604	-0.0126

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
tyrosine	t0	0.037	0.015	0.1139*	-0.0399	-0.0541	0.1201*	0.0317	-0.0213	-0.0509	0.1622*	-0.038	0.0046	0.0379	0.0109
	t24	0.0054	0.0026	0.1367*	-0.0153	-0.0436	0.2696*	-0.0395	-0.0148	-0.0006	0.0695	0.0182	0.0083	0.0265	0.009
HPLA	t0	-0.01	-0.0231	0.0294	-0.0144	0.0224	0.073	0.0009	-0.0042	-0.0304	0.1887*	-0.0339	0.0238	0.1235*	-0.1003*
	t24	-0.0325	-0.0197	0.0246	-0.0261	0.1636*	0.1041*	0.015	-0.0356	-0.0335	0.0217	-0.0193	0.2990*	0.0336	0.0293
3-methoxytyrosine	t0	-0.0402	-0.0633	0.0065	0.0542	0.054	-0.0129	0.1697*	-0.0269	-0.0159	-0.0188	-0.0214	0.0184	0.0269	0.0362
	t24	-0.0383	-0.0538	0.0028	0.0682	0.0276	-0.0022	0.1709*	-0.0491	-0.0089	-0.0313	-0.0426	0.0183	0.0761	0.0982
phenylacetylglutamine	t0	-0.0238	-0.1116*	-0.0671	0.1892*	0.0703	-0.0325	0.0353	0.0256	0.002	-0.0925	-0.1415*	-0.0199	0.0014	-0.0139
	t24	0.0067	-0.1070*	-0.0782	0.0233	0.072	-0.0047	0.0206	0.0279	-0.0175	-0.0217	-0.2134*	-0.0092	-0.0797	-0.0379
phenol sulfate	t0	0.4843*	-0.0322	0.0086	-0.001	0.0011	-0.0232	0.0087	0.0183	0.1112*	-0.0071	-0.0012	0.0044	0.0152	-0.0111
	t24	-0.0062	-0.0178	-0.0091	0.0302	0.0179	-0.0176	0.0308	0.0356	0.0105	-0.0488	-0.1301*	0.0135	0.0107	-0.0353
kynurenate	t0	-0.0263	0.0071	-0.0058	-0.0072	0.0418	-0.0241	-0.0083	-0.0404	-0.0712	-0.0035	0.0278	-0.0187	-0.0177	-0.0206
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
kynurenine	t0	-0.0059	-0.0317	0.0009	0.1154*	-0.0063	-0.0095	0.0042	-0.1369*	0.0175	0.0403	0.0367	0.0323	0.0095	-0.1047*
	t24	-0.0546	-0.0032	-0.0228	0.0161	0.2052*	0.009	-0.0221	-0.1290*	-0.0605	-0.0125	0.008	0.0372	0.034	0.0005
tryptophan	t0	0.0234	0.1319*	0.0154	-0.0658	-0.1109*	0.0532	-0.0303	-0.0297	0.0017	0.0153	-0.037	-0.0023	0.021	0.0279
	t24	0.0078	0.0537	0.0759	-0.058	-0.059	0.1239*	-0.1111*	-0.0374	0.0028	0.0584	0.0066	0.0241	0.1242*	0.025
indolelactate	t0	-0.0303	-0.0045	0.0105	0.0754	-0.0214	0.1129*	-0.1294*	0.0263	-0.0508	0.0415	-0.0599	-0.0031	0.1100*	-0.0825
	t24	-0.0303	-0.011	0.0218	-0.1006*	0.0918	0.1172*	0.0009	-0.0724	-0.0844	0.1439*	-0.0728	0.057	0.0932	-0.0192
indoleacetate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0229	0.0621	0.0297	-0.0064	-0.0957	0.0086	-0.0013	0.0079	-0.2167*	-0.0096	-0.025	0.1197*	-0.0318	0.2705*
3-indoxyl sulfate	t0	0.0069	-0.0378	-0.0183	0.1709*	0.0138	-0.0499	0.0073	0.0117	0.0997	-0.0012	-0.1953*	-0.0013	-0.0159	-0.0356
	t24	-0.0084	-0.0404	-0.029	0.0383	0.0349	-0.0017	0.0294	0.1026*	0.1506*	-0.0208	-0.3792*	0.0291	0.0938	-0.0273
indolepropionate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0192	0.0881	-0.0141	0.0094	-0.0355	-0.0126	0.08	-0.0096	0.0589	-0.0236	-0.0151	-0.0097	-0.02	0.0031
C-glycosyltryptophan	t0	-0.0371	-0.1206*	-0.0289	0.1321*	0.1465*	-0.0267	-0.0025	0.0033	0.0722	-0.0089	0.0354	0.0024	-0.014	0.0117
	t24	-0.0196	-0.0144	-0.017	0.0765	0.5210*	0.0216	0.0052	0.0033	0.0205	-0.0015	-0.0151	0.0243	-0.025	-0.0045
3-methyl-2-oxobutyrate	t0	0.0212	0.0158	0.0123	-0.1843*	0.0103	0.0559	-0.0438	-0.0458	0.0108	0.0761	0.0096	-0.0533	0.1119*	-0.0132
	t24	0.0282	0.0086	0.1583*	-0.2081*	-0.0298	-0.0018	-0.0007	-0.0031	0.0165	0.0504	0.1230*	-0.0127	0.0343	0.007
3-methyl-2-oxovalerate	t0	0.0626	0.0584	-0.0109	-0.0537	-0.0105	0.0757	-0.0992	0.0132	0.0292	0.0075	-0.1119*	0.0242	0.0359	0.0063
	t24	0.2496*	0.0748	0.0032	-0.0321	-0.0867	0.0015	-0.0076	0.0223	-0.0014	-0.0002	-0.2942*	0.0136	0.0048	-0.2904*
beta-hydroxyisovalerate	t0	-0.0069	-0.0144	-0.0401	-0.0023	0.0987	0.1120*	-0.0306	-0.0397	0.0094	0.0605	-0.0407	-0.0166	0.0094	-0.0177
	t24	-0.0053	-0.0565	0.0175	-0.0231	0.2366*	0.4040*	-0.0143	-0.0496	-0.0166	0.1559*	-0.0303	-0.0132	0.0286	0.0077
isoleucine	t0	0.0297	0.0032	-0.0155	-0.014	0.0108	0.1213*	-0.0586	-0.0092	0.0109	0.0165	-0.0815	0.0184	-0.0067	-0.0116
	t24	-0.009	0.0117	0.0208	-0.0231	-0.011	0.0525	-0.0377	-0.007	-0.0463	0.0283	-0.4138*	-0.0163	-0.0555	-0.1403*
leucine	t0	-0.0521	0.0081	-0.0075	-0.0085	0.0195	0.2508*	-0.0332	-0.0086	-0.0026	0.0867	-0.0635	-0.0013	0.0232	-0.0114
	t24	-0.0334	0.0522	0.1684*	-0.1146*	0.002	0.1549*	-0.2017*	-0.0439	-0.0165	0.0361	-0.0176	-0.0434	-0.0183	0.0028
N-acetylalanine	t0	-0.0458	-0.0674	-0.0053	0.0358	0.0975	0.0238	0.046	0.0114	0.0133	0.0298	-0.0072	0.1535*	0.004	-0.0177
	t24	-0.0727	-0.1689*	-0.0182	0.0343	0.3492*	0.0178	0.0175	-0.0037	-0.0092	0.0053	-0.0353	0.2737*	-0.016	0.0029
valine	t0	0.0522	-0.0016	-0.0001	-0.0692	-0.0056	0.1255*	-0.1104*	-0.0612	0.036	0.0685	-0.1594*	-0.0283	0.0216	0.0046
	t24	-0.0295	0.0687	0.1593*	-0.1225*	-0.0427	0.1218*	-0.1354*	-0.0505	-0.0058	0.0451	0.0041	-0.034	0.0016	-0.001
4-methyl-2-oxopentanoate	t0	0.0496	0.0977	-0.0143	-0.082	-0.027	0.0224	-0.0933	-0.0049	0.0419	0.0234	-0.0305	-0.0123	0.1285*	-0.0042
	t24	0.0193	0.0395	0.0189	-0.2048*	-0.0567	0.009	-0.0733	0.0225	-0.0033	-0.0148	-0.0329	0.0144	0.0528	0.0138
3-hydroxy-2-ethylpropionate	t0	0.0008	-0.0852	-0.0016	0.0273	0.0096	0.0088	-0.0276	0.0244	0.0233	0.0208	-0.072	0.006	-0.0238	-0.0679
	t24	-0.0211	0.0005	-0.0171	0.0274	0.041	0.0055	0.0181	0.1648*	0.0152	-0.0585	-0.0211	-0.0266	-0.0183	0.0063
alpha-hydroxyisovalerate	t0	0.0398	0.0096	0.0091	-0.0667	-0.0004	0.0519	-0.0075	0.0097	0.0408	0.0026	0.1396*	0.0097	0.2929*	-0.0624
	t24	0.0192	-0.0149	-0.0239	-0.0563	0.0688	-0.0115	0.0704	-0.0294	0.1038*	-0.0577	0.4590*	0.0277	0.0405	-0.0129
propionylcarnitine (C3)	t0	-0.0194	-0.0565	0.0172	0.0094	0.0613	0.0368	-0.0216	-0.0083	-0.0231	0.0124	-0.0214	0.0086	-0.0132	-0.0308
	t24	-0.0243	-0.0178	0.0046	-0.0273	0.1986*	0.0793	-0.0638	-0.0133	-0.0239	0.0009	-0.0501	0.0034	0.0088	-0.0338
butyrylcarnitine (C4)	t0	-0.0015	-0.0288	0.0073	-0.0034	0.3119*	-0.0119	-0.0116	0.0004	-0.0287	0.1517*	-0.0262	-0.0341	-0.0192	-0.0422
	t24	-0.0119	-0.0441	0.0038	-0.0124	0.2391*	-0.0163	-0.0242	0.0163	-0.0183	0.2164*	-0.0612	0.0122	-0.0189	-0.0322

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
isobutyrylcarnitine (C4)	t0	-0.0274	-0.0151	-0.0105	0.0015	0.1363*	0.004	-0.0048	-0.023	-0.0323	-0.0112	-0.0106	-0.0174	-0.0137	-0.0301
	t24	-0.023	-0.0083	0.0013	-0.0282	0.1444*	0.0168	-0.0374	-0.0114	-0.0351	-0.0036	-0.0121	-0.0125	-0.0214	-0.0186
2-methylbutyroylcarnitine (C5)	t0	-0.0246	-0.0111	0.0052	0.0037	0.1136*	0.0348	-0.0065	-0.0096	-0.0295	0.0023	-0.0219	-0.0117	-0.0016	-0.033
	t24	-0.0163	0.0088	-0.0033	-0.0263	0.4024*	0.0447	-0.0175	-0.0005	-0.0762	0.003	-0.0865	0.0139	-0.0018	-0.059
isovalerylcarnitine (C5)	t0	-0.004	0.0509	0.0393	-0.1004*	-0.0078	0.069	0.0295	-0.0202	-0.0672	0.0493	-0.0388	0.0037	0.0369	-0.0672
	t24	-0.1070*	0.1046*	0.0708	-0.3397*	-0.0046	0.1201*	-0.0086	-0.0075	-0.0534	0.1134*	-0.0088	0.0357	-0.0003	-0.0641
hydroxyisovaleroylcarnitine (C5)	t0	0.006	-0.0012	0.0016	0.0027	0.0139	0.1033*	-0.0258	-0.0007	-0.0507	0.0048	-0.0338	-0.0396	0.0532	-0.0513
	t24	-0.0259	-0.0379	0.005	0.0001	0.1636*	0.1838*	-0.0589	0.0507	-0.1689*	0.0137	-0.0207	-0.0106	0.001	-0.0422
tiglyl carnitine (C5)	t0	-0.0062	-0.0158	0.0009	-0.0308	0.0717	0.0201	-0.0405	0.0104	-0.0121	0.0053	-0.0352	-0.0035	-0.0198	-0.0597
	t24	-0.0393	-0.0009	-0.0309	-0.025	0.2420*	0.0783	-0.035	-0.0219	-0.0793	-0.017	-0.0349	0.0011	-0.0337	-0.0036
cysteine	t0	0.0117	-0.0296	-0.0051	0.0987	-0.0137	0.0013	-0.0069	0.052	-0.0075	-0.0564	-0.0914	-0.0296	0.0092	-0.0339
	t24	-0.0328	0.0431	-0.015	-0.0465	0.0541	0.0095	-0.0615	0.2442*	-0.089	-0.0029	-0.0891	0.1565*	-0.0127	0.0114
cystine	t0	-0.0053	-0.0254	-0.0043	0.1381*	-0.0063	0.0483	0.0311	0.0238	0.0153	-0.0202	-0.0481	-0.0591	0.0067	-0.0197
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
methionine	t0	-0.0076	0.0138	0.1221*	-0.0083	-0.022	0.1468*	0.0159	0.0326	-0.0146	0.0851	-0.0519	0.0612	0.0138	-0.0139
	t24	0.0337	0.0051	0.0706	-0.0142	-0.0974	0.0579	-0.0075	0.0126	-0.052	0.1077*	-0.0283	0.1290*	0.0332	-0.0358
alpha-ketobutyrate	t0	-0.001	0.0142	0.0125	-0.0781	0.0084	0.0621	-0.03	-0.0195	-0.012	0.1044*	-0.0086	-0.0198	0.0175	-0.0008
	t24	-0.0042	-0.0071	0.0206	-0.0372	0.0979	0.0156	-0.0853	-0.0387	-0.1853*	0.0555	-0.0096	-0.1074*	-0.1009*	0.0139
2-hydroxybutyrate (AHB)	t0	0.0008	-0.0275	0.0117	-0.0133	0.0218	0.0598	-0.0536	-0.006	-0.0279	0.0906	0.008	-0.0396	0.0145	-0.0344
	t24	-0.0305	0.0028	0.0158	-0.0333	0.1371*	-0.0081	0.004	-0.003	-0.0818	0.1122*	-0.0248	-0.0238	-0.0637	-0.0125
SDMA	t0	-0.0196	-0.1113*	0.0014	0.0308	0.0735	0.0144	0.0632	-0.0333	0.0711	0.0308	-0.0112	0.1102*	0.0335	-0.0319
	t24	-0.0397	-0.1715*	0.0114	0.0386	0.2037*	0.1429*	0.0212	-0.0176	0.0135	0.0277	-0.0275	0.2644*	-0.0553	0.0353
arginine	t0	-0.007	-0.0254	0.0007	-0.022	0.2693*	-0.0029	0.0974	0.0028	0.1255*	0.0107	-0.0129	-0.0148	0.0028	0.0115
	t24	0.0194	0.0243	0.0782	-0.0596	-0.0269	0.1256*	-0.0042	-0.021	-0.033	-0.0132	-0.013	-0.0094	0.0131	-0.0182
ornithine	t0	-0.0013	-0.0568	0.0314	0.0713	-0.0209	0.0122	0.021	0.0052	0.031	-0.0013	-0.0703	-0.0098	0.0143	-0.0213
	t24	-0.0244	0.1255*	0.0048	-0.0567	0.0055	0.0163	-0.0264	0.1759*	-0.0177	-0.0023	-0.0118	0.2609*	-0.0244	0.0065
urea	t0	-0.0844	-0.0902	0.0723	0.0729	0.0021	-0.0092	0.1466*	0.0174	-0.0521	-0.0178	-0.0049	0.0204	-0.0178	-0.0076
	t24	-0.0294	-0.0477	0.0306	0.0073	0.3006*	0.034	0.0039	0.001	-0.0756	0.0177	-0.0683	0.0546	-0.0219	-0.0018
proline	t0	0.0268	-0.0085	-0.0041	-0.008	-0.0015	-0.0012	0.0173	0.0381	0.0731	0.2688*	0.0167	0.0126	0.0072	-0.0148
	t24	0.0034	-0.0129	0.0376	-0.011	0.0039	0.0694	-0.0042	0.0038	0.1270*	0.0417	0.0128	0.0344	0.0177	0.012
citrulline	t0	0.0357	-0.0145	0.0168	-0.0128	0.0043	0.0022	-0.0003	-0.0267	0.0442	-0.0071	-0.0646	0.0374	0.3584*	0.0105
	t24	-0.0035	-0.0108	0.0509	-0.0172	0.0028	0.0144	0.018	-0.031	0.0107	0.0163	-0.002	0.0348	0.5673*	-0.0166
N-acetylornithine	t0	-0.0306	-0.0157	0.0122	0.024	-0.002	0.1679*	0.019	-0.011	0.055	0.1434*	-0.0427	0.1343*	-0.0291	-0.0139
	t24	-0.0249	-0.0103	0.0059	0.0306	-0.009	0.0859	0.0259	-0.0114	0.0768	0.0532	-0.0712	0.1303*	0.0019	-0.0294
hydroxyproline	t0	0.1038*	-0.0368	-0.0561	-0.0088	0.0297	0.0175	0.022	-0.0186	0.0618	-0.0267	0.1181*	0.0364	0.0145	-0.0086
	t24	-0.0241	0.0154	-0.0034	0.0095	-0.0005	0.0315	0.0498	-0.0039	0.08	0.0155	0.0174	0.0044	-0.0076	-0.0111
homocitrulline	t0	-0.0585	-0.0815	0.0199	0.0018	0.0448	-0.007	-0.0037	-0.0222	-0.0242	-0.0287	-0.0246	-0.0217	-0.0468	0.0153
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
stachydrine	t0	0.0027	-0.0378	0.0244	0.0511	-0.019	0.0026	0.0894	-0.0099	-0.0337	-0.0278	0.0245	0.1510*	0.0627	-0.0022
	t24	0.0069	0.0228	-0.0515	0.0104	-0.0244	0.0197	0.0463	0.0158	-0.1198*	-0.085	-0.0152	0.1344*	0.1664*	0.0293
homostachydrine	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0082	0.0506	0.0129	-0.0448	0.0012	0.0357	0.0089	0.3348*	-0.0266	-0.0157	0.0343	0.2978*	0.1035*	-0.0281
creatine	t0	-0.1286*	-0.0109	-0.0063	0.0318	0.0039	0.0431	0.0008	-0.021	0.0142	0.0118	-0.0726	-0.0078	-0.1107*	-0.0025
	t24	-0.0612	-0.0457	-0.0218	0.1052*	0.065	0.0072	0.0016	0.0112	0.0071	-0.0173	-0.1461*	-0.0962	-0.1421*	-0.0291
creatinine	t0	-0.0208	0.0565	0.0315	-0.1199*	-0.0246	0.0256	0.0186	-0.0195	0.0025	-0.0175	-0.0335	0.0215	0.2403*	-0.0879
	t24	-0.0351	-0.0025	0.0221	-0.0761	0.2597*	-0.0005	0.0007	-0.0472	-0.0997	0.0313	-0.3526*	0.0317	-0.0015	-0.0145
2-aminobutyrate	t0	0.0067	0.0063	-0.004	-0.0098	0.0181	0.1507*	-0.0284	-0.022	0.0024	0.1838*	-0.0077	-0.0072	0.006	-0.0045
	t24	0.004	-0.0165	0.0236	-0.0382	0.0185	0.0613	-0.0906	-0.0248	-0.0312	0.3805*	-0.0619	-0.0086	0.0078	0.0387
5-methylthioadenosine (MTA)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0289	-0.0822	0.0083	0.014	0.3232*	0.0468	0.0045	0.0041	-0.0171	0.0159	0.0061	0.4083*	0.018	0.0112

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
4-acetamidobutanoate	t0	-0.0467	-0.0489	-0.0211	0.4372*	0.0757	0.0248	0.0633	-0.0043	0.0463	0.0195	0.0215	0.005	0.0098	-0.005
	t24	-0.0281	-0.1549*	-0.0753	0.0514	0.1648*	0.0538	0.0054	-0.0233	0.0186	0.028	-0.0419	0.2532*	-0.0561	0.0732
5-oxoproline	t0	-0.013	0.0007	-0.0106	-0.0028	0.0204	0.0015	-0.0303	-0.0253	0.0113	0.1446*	-0.0111	0.1882*	0.0002	-0.0453
	t24	0.0901	-0.0074	-0.0083	-0.0297	0.0315	0.0078	-0.0548	-0.0116	0.0208	-0.0147	-0.0044	0.4259*	0.0198	-0.0448
prolylhydroxyproline	t0	-0.047	-0.0801	-0.0298	0.2070*	0.1771*	-0.0087	-0.0306	-0.0129	0.0128	-0.0048	0.0113	-0.0132	-0.0718	0.0001
	t24	0.0026	-0.023	-0.0542	0.0083	0.0584	-0.0152	0.0387	-0.0046	0.0285	-0.0042	-0.0074	0.0045	-0.0425	-0.0201
glutamylvaline	t0	-0.0302	-0.0128	0.0216	-0.0145	0.1509*	0.0321	-0.0327	-0.0342	0.1766*	0.1262*	0.0338	0.1276*	0.0103	-0.0392
	t24	-0.1109*	0.0782	0.0032	-0.1057*	0.0819	0.1126*	-0.0273	-0.0672	0.0375	0.0093	-0.0029	0.0271	0.0355	0.1071*
gamma-glutamylleucine	t0	-0.0271	0.0988	-0.0037	-0.0373	0.0201	0.1533*	-0.0295	-0.0381	0.0152	0.0739	-0.0366	0.0155	0.0257	-0.0242
	t24	-0.0612	0.2893*	0.09	-0.089	0.0132	0.0598	-0.0513	-0.0492	-0.0154	0.1315*	-0.0163	-0.0059	0.0189	-0.0097
gamma-glutamylisoleucine	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0055	0.0166	-0.0044	0.0029	-0.0285	-0.0024	0.0024	-0.0539	0.0717	-0.0253	-0.0482	0.0018	-0.0087	-0.0271
gamma-glutamylglutamine	t0	0.019	0.0141	-0.0241	-0.0981	0.0516	-0.033	0.0406	-0.0081	0.0214	0.2190*	-0.0124	0.0581	0.0341	-0.0061
	t24	-0.0051	-0.0091	-0.0161	0.0168	0.0023	0.0012	0.026	-0.0397	0.0582	0.1728*	-0.1235*	0.0219	0.0155	-0.0017
gamma-glutamylphenylalanine	t0	-0.0701	0.0778	0.0128	-0.0092	0.0231	0.002	0.0177	-0.0544	-0.0053	0.0456	0.2806*	0.0909	-0.0098	-0.0813
	t24	-0.1085*	0.0496	0.0072	-0.1225*	0.0215	0.0824	-0.0331	0.0189	-0.0796	0.0248	0.0286	0.3297*	0.0089	0.0604
gamma-glutamyltyrosine	t0	-0.0448	0.0253	0.1196*	-0.0242	-0.0076	0.038	-0.0162	-0.0131	-0.0721	0.1994*	0.0018	-0.0059	0.0928	0.0029
	t24	0.0021	-0.001	0.043	-0.0387	0.0066	0.1853*	-0.0211	-0.0506	0.0189	0.1004*	0.0194	0.014	0.0042	0.0443
N-acetylglucosamine 6-sulfate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0224	-0.0289	-0.0436	0.0819	0.4440*	-0.0071	0.0144	0.0191	0.0154	-0.0289	-0.0104	0.0357	-0.0144	0.0021
erythronate	t0	-0.0516	-0.1693*	-0.003	0.1811*	0.0589	-0.0286	0.0989	0.0353	0.0334	-0.0219	0.0603	0.0847	0.0097	-0.0394
	t24	-0.0248	-0.0323	-0.0289	0.0667	0.4221*	0.0804	0.0006	0.011	-0.0129	-0.0069	-0.0252	0.1291*	-0.0154	0.026
N-acetylneuraminate	t0	0.0006	-0.0167	-0.0349	0.0367	0.1097*	-0.1991*	-0.0133	0	-0.0402	-0.1812*	0.0036	-0.0149	-0.0688	0.0009
	t24	-0.0296	-0.0365	-0.0262	0.0359	0.1557*	-0.0621	0.0126	-0.0219	0.0212	0.0026	-0.0302	0.0039	-0.0241	-0.0475
erythrose	t0	0.0256	0.1280*	0.0234	-0.0295	-0.1923*	-0.022	-0.0059	0.0072	0.0307	0.001	-0.0009	0.0533	0.02	-0.0167
	t24	-0.0268	0.0364	0.0092	-0.0122	-0.018	-0.0061	0.0566	-0.0056	0.0159	0.0359	0.0012	-0.0958	0.0834	-0.0147
fructose	t0	0.0029	0.0555	-0.023	0.0105	-0.0508	-0.0834	0.0106	-0.0633	0.0838	0.0321	-0.0123	0.0763	-0.0053	0.0176
	t24	-0.0037	0.2505*	-0.0436	0.0359	-0.0368	-0.037	0.0478	0.0166	0.0181	0.0276	0.0189	-0.0329	0.0809	-0.0237
maltose	t0	-0.0005	-0.0317	0.2028*	-0.0106	-0.0052	-0.0448	0.0651	0.0011	-0.0134	-0.0453	-0.0109	-0.0262	-0.03	-0.0347
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
mannitol	t0	-0.0089	-0.0329	-0.0022	0.1493*	-0.0075	-0.0017	0.0722	0.012	0.048	-0.0159	-0.0021	-0.0328	0.1047*	-0.0092
	t24	-0.0447	-0.0188	-0.0258	0.1091*	0.0506	0.009	-0.0573	-0.0111	-0.0228	0.0119	0.093	0.0303	0.0143	0.2240*
mannose	t0	0.035	-0.0528	0.0156	0.002	-0.0201	-0.0115	0.0037	-0.0184	-0.1028*	-0.0313	-0.0648	-0.1052*	-0.0328	0.067
	t24	0.0062	0.0007	0.005	-0.0007	-0.0044	-0.0361	-0.0393	-0.005	-0.2664*	0.0315	-0.1557*	-0.1156*	-0.0539	0.021
sucrose	t0	-0.0196	-0.0195	-0.0126	0.023	0.0679	-0.034	0.0524	0.035	0.037	-0.0005	-0.0214	-0.047	-0.0171	-0.008
	t24	-0.0127	-0.0245	-0.0436	0.0354	0.1143*	0.0109	0.0013	-0.0311	0.0197	-0.0596	0.0186	-0.0246	-0.0248	-0.0586
1,5-anhydroglucitol (1,5-AG)	t0	-0.0046	0.2677*	0.0056	-0.0265	0.0007	0.0807	-0.0118	-0.0245	0.0143	0.0152	-0.0223	0.001	0.0386	-0.0104
	t24	-0.0014	0.1944*	0.0112	-0.0198	-0.03	0.0924	-0.003	-0.0101	0.015	-0.0227	-0.0575	0.1065*	0.1049*	-0.0213
glycerate	t0	0.1033*	-0.0361	-0.0186	0.0052	-0.0106	-0.1259*	-0.0036	-0.1551*	-0.0078	-0.04	0.3109*	0.0548	0.0072	0.0305
	t24	0.0079	0.0154	-0.0106	-0.005	-0.0076	-0.1730*	0.0127	-0.0016	-0.0113	0.0117	0.4794*	0.0132	0.0746	-0.0168
glucose	t0	0.4118*	-0.0351	0.034	-0.0059	-0.0165	-0.0434	0.0713	-0.0035	-0.0212	-0.0213	-0.0115	-0.0238	0.0329	0.0319
	t24	0.0263	-0.0171	0.0072	-0.0037	-0.0082	0.0163	-0.043	-0.0322	-0.0611	0.0116	-0.0639	-0.088	0.0152	0.0089
1,6-anhydroglucose	t0	0.0902	-0.0018	-0.0168	0.0205	-0.0453	-0.0488	0.0296	-0.036	0.0249	0.0065	-0.0206	0.0473	0.0326	-0.0796
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
dihydroxyacetone	t0	0.0797	-0.0016	0.049	-0.0149	-0.2393*	-0.0473	0.0636	-0.0251	0.0179	-0.0248	0.0077	0.0011	0.0146	-0.0573
	t24	-0.0305	0.0347	0.0258	0.0036	-0.0484	0.0077	0.1584*	-0.0075	0.0011	0.0557	0.0095	-0.0088	0.0362	-0.0115
pyruvate	t0	-0.0209	0.1763*	-0.0122	-0.0055	-0.0072	-0.0312	0.0252	-0.0002	0.0215	0.0297	0.0251	0.0063	0.0031	-0.0188
	t24	0.0259	-0.0008	-0.0215	-0.0036	0.0011	0.0279	-0.0536	-0.0297	0.0004	-0.0286	0.0023	-0.0349	-0.0348	-0.0029
lactate	t0	-0.0136	0.0044	-0.0106	0.0344	-0.0155	-0.0246	0.0396	0.1193*	-0.0041	-0.0003	0.004	-0.0184	0.0081	-0.0292
	t24	-0.01	0.0068	-0.0164	-0.015	0.0389	-0.001	0.0376	0.1102*	0.0053	-0.016	0.0966	0.0332	0.0062	-0.0008

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
glucuronate	t0	-0.0031	0.0052	-0.0053	-0.0174	0.2103*	-0.0456	0.0119	-0.0168	0.0081	-0.0499	0.2786*	0.0058	0.0007	-0.0223
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
arabitol	t0	-0.0009	-0.1906*	-0.0282	0.0489	0.0546	-0.0538	0.1929*	0.029	0.006	-0.0486	0.1385*	0.0108	0.003	-0.0511
	t24	-0.0153	-0.0959	-0.0043	0.033	0.2884*	0.0552	0.0192	-0.0529	-0.0022	-0.004	-0.0339	0.0563	0.0108	-0.0002
threitol	t0	0.0167	-0.0956	0.0041	0.1744*	-0.0121	-0.0652	0.0176	-0.0165	0.0284	-0.0543	0.0191	0.0603	-0.0174	0.0169
	t24	-0.0449	-0.0508	-0.0174	0.0407	0.1016*	0.062	-0.012	-0.0092	-0.0075	-0.0208	-0.0419	0.0428	-0.011	0.1031*
gluconate	t0	0.0072	-0.0023	-0.0133	0.037	-0.0201	-0.0632	0.0162	-0.0638	0.0055	-0.0461	0.1183*	-0.0124	-0.0067	0.0284
	t24	-0.0431	-0.0111	-0.0228	0.0215	0.0748	0.0891	-0.0256	-0.0112	-0.0307	-0.0338	0.0337	0.1232*	-0.0093	0.2285*
arabinose	t0	0.0032	0.0009	-0.0444	0.0746	-0.0298	-0.0617	0.1688*	0	0.1199*	-0.0012	0.0195	-0.0086	0.0327	0.0252
	t24	-0.0042	-0.0213	-0.0369	0.0087	0.1042*	0.0118	0.0063	0.012	-0.0061	-0.0405	-0.0029	0.3918*	-0.0012	0.1571*
xylose	t0	0.0095	-0.0116	-0.0367	0.0655	-0.0438	-0.0438	-0.0286	-0.0402	0.0278	0.0657	-0.0132	0.0546	-0.0275	0.0146
	t24	-0.0089	-0.0401	-0.0122	0.0373	0.0032	0.1096*	-0.0494	0.2978*	0.0002	0.0895	0.0696	0.0021	-0.0121	0.0233
xylonate	t0	-0.0337	-0.039	0.0043	0.0451	0.0189	-0.1664*	0.1555*	-0.0782	0.0283	-0.0103	0.2440*	0.034	-0.011	-0.0202
	t24	-0.0796	-0.0008	-0.0178	0.034	0.3005*	0.017	0.0374	-0.0012	0.0071	0.0184	0.0061	0.1027*	0.0042	0.0218
citrate	t0	0.1864*	-0.0014	-0.0147	-0.0132	0.0014	-0.0216	0.3519*	0.0097	0.0245	-0.0111	0.1396*	0.0133	0.0072	-0.0059
	t24	-0.0103	0.0862	-0.0096	-0.0017	-0.0223	-0.0055	0.0893	-0.0058	0.0451	0.0016	0.0024	-0.0023	-0.0233	-0.0056
alpha-ketoglutarate	t0	0.0887	0.01	0.0251	-0.0228	-0.0307	-0.0254	0.0918	-0.0081	0.015	-0.0283	0.1964*	0.0547	0.1382*	-0.037
	t24	-0.0043	0.0117	-0.0119	-0.0075	-0.0064	-0.014	0.0835	0.0158	0.0029	-0.0506	0.0091	0.1041*	0.3728*	-0.0069
malate	t0	0.1146*	-0.0172	0.0045	0.0064	-0.0394	-0.0434	0.0592	0.0355	0.0162	0.0011	0.0143	0.1590*	0.1171*	-0.0502
	t24	-0.0224	-0.011	-0.0113	0.0086	0.0208	0.0187	0.0419	0.0449	-0.0515	-0.016	0.005	0.2631*	0.2365*	-0.0077
oxaloacetate	t0	-0.0096	0.0358	-0.0169	0.0218	-0.0268	-0.0333	0.0439	0.0281	0.0325	0.026	0.0105	0.0062	0.007	-0.0116
	t24	-0.0217	0.0389	-0.0309	0.0086	0.0035	-0.0191	0.055	0.0676	0.039	-0.0155	0.1052*	-0.0617	0.034	-0.0307
phosphate	t0	0.0422	-0.0834	-0.0378	0.0251	0.0042	-0.0833	-0.0132	-0.0182	-0.0058	-0.0489	-0.1045*	-0.0685	0.0187	-0.0081
	t24	0.0256	-0.055	-0.0208	-0.0092	0.028	-0.0049	0.0005	0.0255	-0.0578	-0.0188	-0.0766	0.05	0.009	0.0082
linolenate (18:3n3 or 3n6)	t0	0.0131	-0.0121	0.0182	-0.0101	-0.0038	-0.0322	0.0048	-0.0029	-0.0701	0.0027	0.0836	-0.0069	0.0039	-0.0221
	t24	-0.0072	-0.0225	0.0486	0.032	-0.0468	-0.0366	0.0048	-0.0243	-0.0484	0.1806*	-0.0488	-0.0307	-0.0164	-0.0082
dihomolinolenate (20:3n3 or 3n6)	t0	0.0231	-0.0204	-0.0078	-0.0209	0.0134	-0.0288	-0.0394	-0.0396	-0.0217	0.0022	0.0496	-0.0125	0.006	0.0075
	t24	0.0309	-0.0331	0.0335	0.0578	-0.0347	-0.0266	-0.0059	-0.0219	-0.0305	0.1789*	-0.0262	-0.0296	-0.0508	-0.0051
eicosapentaenoate (EPA; 20:5n3)	t0	0.1052*	-0.0361	-0.003	-0.0008	-0.0283	-0.0232	-0.0239	-0.001	-0.0344	0.0087	0.031	-0.01	-0.032	0.2083*
	t24	0.0088	-0.0174	0.0072	0.0813	-0.0541	-0.0334	-0.0297	-0.0038	-0.0434	0.1788*	-0.0293	-0.0449	-0.0413	0.0074
docosapentaenoate (DPA; 22:5n3)	t0	0.0761	-0.0228	-0.0162	-0.0302	0.0118	-0.0782	-0.0044	0.0357	-0.029	0.0051	0.3780*	-0.0038	0.0011	0.0804
	t24	0.0164	-0.0748	0.0335	0.0519	-0.0253	-0.1180*	0.0068	0.0558	-0.0469	0.1521*	-0.017	-0.0205	-0.0704	0.0039
docosahexaenoate (DHA; 22:6n3)	t0	0.0539	-0.0107	-0.0195	-0.0465	0.0176	-0.0663	0.0012	0.0158	-0.0089	-0.0155	0.1130*	0.0002	-0.0038	0.0704
	t24	0.0221	-0.1288*	0.1332*	0.0143	-0.0119	-0.0689	0.0452	0.0214	-0.0265	0.022	-0.0378	0.0294	-0.1040*	0.2103*
isovalerate (C5)	t0	-0.1214*	0.2473*	-0.015	-0.0032	-0.0019	-0.0171	0.0275	-0.0445	-0.014	0.0336	-0.1295*	0.012	0.0098	-0.0226
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
caproate (6:0)	t0	-0.0122	0.0177	-0.1181*	-0.0071	0.0804	-0.0253	0.0314	-0.0254	-0.0947	0.0256	0.0068	0.0018	-0.1063*	0.0817
	t24	0.2234*	-0.0635	0.0504	0.0111	-0.0436	-0.0375	0.0327	-0.0242	-0.0358	-0.0233	-0.0154	-0.0801	0.0076	0.074
heptanoate (7:0)	t0	-0.0898	0.0421	-0.0315	-0.0181	0.1051*	-0.0327	0.0029	-0.0336	-0.072	0.0218	-0.0113	-0.0073	-0.0269	0.0935
	t24	0.1852*	-0.0785	0.0346	0.0017	-0.0467	-0.04	0.0224	-0.0289	-0.0203	-0.0506	-0.0212	-0.1236*	0.0123	0.089
caprylate (8:0)	t0	-0.0056	-0.0115	0.2642*	-0.0135	-0.0071	-0.059	0.0458	-0.0103	-0.0376	-0.0098	-0.0154	-0.0262	-0.031	-0.0175
	t24	0.2330*	-0.1634*	0.0523	-0.0112	-0.0275	-0.0096	0.0077	-0.044	0.0091	-0.016	-0.0276	0.031	0.0768	0.0023
pelargonate (9:0)	t0	0.0027	0.0676	-0.0265	-0.0196	-0.0026	-0.0162	-0.0079	-0.05	-0.1085*	0.0431	0.0068	0.0097	-0.0114	0.1767*
	t24	0.2824*	-0.0849	0.0293	0.0197	-0.0249	-0.0385	0.0397	-0.0387	-0.0062	-0.0293	-0.0147	-0.0737	0.0205	0.0155
caprate (10:0)	t0	-0.0071	-0.0233	0.2691*	0.0047	-0.0113	-0.0564	0.0378	-0.0089	-0.041	0.0075	-0.0005	-0.0219	-0.0216	-0.0226
	t24	0.1109*	-0.1585*	0.0179	0.0156	-0.0382	-0.0118	0.0005	-0.0686	0.0019	0.006	-0.0242	0.0044	0.0143	-0.0236
laurate (12:0)	t0	0.0123	0.0165	0.1684*	-0.1025*	-0.0203	-0.0069	0.0153	0.0229	-0.0273	0.028	0.1438*	0.0461	0.0468	-0.0028
	t24	0.0009	-0.2797*	0.1959*	-0.0093	0.0217	0.1164*	0.0072	-0.0417	-0.0179	0.0226	-0.0478	0.047	0.0167	0.0616
5-dodecenoate (12:1n7)	t0	-0.002	-0.0049	0.034	0.0106	-0.0146	0.0068	0.0135	0.0551	-0.0508	0.0557	0.5818*	-0.0029	0.0217	0.0078
	t24	-0.0351	-0.1382*	-0.0043	0.1328*	0.0294	0.0209	0.028	0.0155	-0.0178	0.084	-0.0102	0.0398	-0.0005	0.0222

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
myristate (14:0)	t0	0.01	-0.0196	0.0259	-0.0892	0.0089	-0.0224	-0.0058	0.0232	-0.0222	-0.0041	0.2671*	0.0141	0.0238	0.0081
	t24	0.0111	-0.1741*	0.1330*	0.0169	-0.0224	0.0068	-0.0048	0.066	-0.0375	0.0605	-0.0557	0.0377	-0.0121	0.0485
myristoleate (14:1n5)	t0	0.0226	-0.069	0.0407	-0.0645	0.0264	-0.0191	0.04	0.0054	0.0205	-0.0005	0.5861*	0.0285	0.0481	-0.0242
	t24	-0.0173	-0.1114*	0.1333*	0.0249	0.0231	0.0032	0.0282	0.0171	-0.0628	0.1969*	0.0088	0.1351*	0.0217	0.0278
palmitate (16:0)	t0	0.0452	-0.0104	0.0008	-0.0514	0.0277	-0.0429	-0.0271	0.019	-0.0233	-0.0158	0.0997	-0.0009	0.0179	-0.0042
	t24	0.046	-0.1492*	0.0807	-0.0162	-0.0119	-0.0118	0.0059	0.0382	-0.0311	0.058	-0.0579	0.0095	-0.017	0.0542
palmitoleate (16:1n7)	t0	0.0232	-0.052	0.0054	-0.02	0.034	-0.0233	0.0089	0.0076	0.0257	-0.0199	0.5675*	0.0088	0.0359	-0.0047
	t24	0.0065	-0.2378*	0.0689	0.0019	0.0064	-0.0252	0.0288	0.0625	-0.032	0.1583*	-0.0012	0.0708	0.0197	0.0371
margarate (17:0)	t0	0.0149	0.0308	-0.0057	-0.0421	0.0112	-0.0153	-0.0143	0.0118	-0.1001*	-0.0101	-0.0024	-0.0101	0.0082	-0.0089
	t24	-0.0077	-0.0584	0.0374	0.0108	0.0037	-0.0065	-0.0046	0.0609	-0.1031*	0.01	-0.1045*	-0.0215	-0.1027*	0.0332
10-heptadecenoate (17:1n7)	t0	0.0194	-0.0042	-0.0104	-0.0085	0.0211	-0.0099	-0.0201	0.0239	-0.0222	-0.0051	0.2083*	-0.0005	0.0132	-0.0004
	t24	0.0196	-0.1127*	0.065	-0.0268	0.0372	-0.0116	-0.0077	0.1111*	-0.0675	0.0187	-0.0327	0.038	-0.0537	0.1400*
stearate (18:0)	t0	0.0388	0.0032	-0.0093	-0.1397*	0.0153	-0.015	-0.0062	0.0091	-0.0521	-0.0255	0.0253	-0.0119	0.0545	-0.0142
	t24	-0.0078	-0.037	0.0346	-0.0131	-0.0091	0.0018	0.0087	0.0501	-0.028	-0.0052	-0.1403*	-0.0004	-0.0727	0.0599
oleate (18:1n9)	t0	0.0183	-0.0314	0.0072	-0.0279	0.1506*	-0.0359	-0.0444	0.0101	-0.0079	-0.0008	0.0704	-0.0064	0.0069	-0.0372
	t24	-0.0351	-0.097	0.1173*	-0.0048	0.039	-0.033	0.022	0.0475	-0.059	0.1104*	-0.0385	-0.018	-0.0209	0.033
vaccenate (18:1n7)	t0	-0.0192	-0.0409	0.0606	-0.0341	0.1483*	-0.0035	0.0213	0.0952	-0.0318	0.0276	0.3157*	0.1535*	0.018	-0.0087
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
linoleate (18:2n6)	t0	0.0034	-0.0095	-0.0019	-0.0147	0.0181	-0.0499	-0.0095	0.0039	-0.0414	-0.0103	0.091	-0.0002	-0.0045	-0.0028
	t24	0.0109	-0.1115*	0.1390*	-0.012	-0.0086	-0.0486	0.0203	-0.0036	-0.069	0.0603	-0.0906	0.006	-0.0109	0.0258
stearidonate (18:4n3)	t0	0.0914	0.0169	-0.009	-0.0078	-0.0353	-0.0155	-0.0068	-0.0139	-0.2556*	0.0047	0.0102	-0.0033	0.0183	0.0319
	t24	0.0123	-0.0206	-0.0214	0.1058*	-0.0109	-0.0114	-0.0204	-0.0147	-0.0501	0.1374*	-0.0418	-0.0248	-0.0456	-0.0029
nonadecanoate (19:0)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0112	-0.0681	0.0547	0.0178	-0.0524	0.0237	-0.0305	0.0566	-0.0348	0.0228	-0.1002*	0.0033	-0.0781	0.0115
10-nonadecenoate (19:1n9)	t0	-0.0002	0.0021	-0.0095	-0.0201	0.0294	-0.0126	-0.0248	0.0259	-0.0052	0.0155	0.0919	-0.0039	0.0053	-0.0084
	t24	-0.014	-0.1293*	0.0526	0.0055	0.0612	0.0202	0.0316	0.0751	-0.0149	0.0059	-0.0488	0.0178	-0.0499	0.02
eicosenoate (20:1n9 or 1n11)	t0	0.0193	-0.0483	0.001	-0.1003*	0.074	-0.0232	0.0197	0.0081	-0.0053	-0.0112	0.3667*	-0.0136	0.0086	-0.0187
	t24	-0.013	-0.1512*	0.0758	0.0118	0.0159	-0.0116	0.0369	0.0111	-0.028	0.0271	-0.0369	0.0245	-0.0042	0.024
dihomolinoleate (20:2n6)	t0	0.0169	0.003	-0.0072	-0.0302	0.0464	-0.0476	0.015	-0.0088	0.0001	-0.0149	0.3197*	-0.0236	0.0193	-0.0093
	t24	-0.0203	-0.1765*	0.0513	0.0717	-0.0103	-0.0698	0.0286	0.0398	-0.0338	0.0306	-0.0193	-0.0232	-0.0268	0.003
arachidonate (20:4n6)	t0	0.0346	-0.0289	-0.0122	-0.0412	0.2006*	-0.0376	-0.0008	0.0098	0.0033	-0.0053	0.0788	0.0043	-0.018	0.0404
	t24	0.0326	-0.1452*	0.0227	0.0799	-0.0413	-0.0369	0.0238	-0.0039	-0.008	0.1580*	-0.027	-0.0189	-0.0782	0.0047
adrenate (22:4n6)	t0	0.0273	-0.0091	-0.0134	-0.0329	0.0799	-0.0477	0.0137	0.0099	-0.0017	-0.0389	0.4090*	-0.0153	0.0008	0.0122
	t24	0.0133	-0.2867*	0.0647	-0.0009	0.0007	-0.0673	0.2161*	0.1125*	-0.0146	0.0565	-0.0404	0.0082	-0.0447	0.0309
3-hydroxydecanoate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0259	-0.0206	-0.0225	-0.0075	0.1059*	0.1734*	0.0119	0.0002	-0.0177	-0.0143	-0.0022	0.1469*	-0.0142	0.2737*
2-hydroxystearate	t0	0.0024	0.0236	-0.0013	-0.0715	0.027	-0.0201	0.0183	-0.008	-0.0367	0.0813	0.2506*	0.0007	0.0096	-0.0025
	t24	-0.0004	-0.0132	0.0084	0.0155	-0.0163	-0.0095	0.0036	-0.0245	-0.0252	0.1537*	-0.0008	0.0023	-0.0384	0.0003
2-hydroxypalmitate	t0	0.0051	-0.0206	-0.008	-0.0111	0.0606	0.0053	0.0225	-0.0178	-0.0045	0.1143*	0.4027*	0.018	0.011	0.0071
	t24	-0.013	-0.0461	0.049	0.0949	-0.0445	0.0114	0.0156	-0.0598	-0.0279	0.2947*	-0.0127	0.0234	-0.0476	-0.0035
hexadecanedioate (C16)	t0	-0.0248	-0.0013	0.0046	-0.0328	0.0546	0	0.0541	-0.0041	0.1058*	-0.0931	0.4854*	-0.0046	-0.007	-0.0088
	t24	-0.0113	-0.0205	-0.0291	-0.0129	0.1898*	0.0126	0.0583	-0.0156	0.0616	-0.0461	0.3904*	0.0507	-0.0164	0.0248
octadecanedioate (C18)	t0	-0.0101	0.0077	-0.0178	-0.0353	0.0838	-0.018	0.1241*	-0.0019	0.0093	-0.0212	0.4555*	-0.0058	-0.0123	0.0039
	t24	-0.034	-0.0142	-0.0296	0.0159	0.1478*	0.0189	0.0764	-0.011	0.1132*	0.001	0.1394*	0.0588	-0.0519	-0.0128
CMPF	t0	0.0932	0.0471	0.0217	-0.0617	-0.0389	-0.0162	-0.0054	0.0163	-0.0005	-0.0495	-0.036	-0.0507	-0.0597	0.0477
	t24	0.0695	-0.0098	0.1026*	-0.0338	-0.0254	0.0409	-0.0177	0.0022	0.0243	-0.1082*	-0.0215	-0.0369	-0.0266	0.0434
deoxycarnitine	t0	-0.0262	0.0095	-0.0015	0.0037	-0.0088	0.1452*	0.0264	0.0048	-0.0078	0.0878	-0.0499	0.0274	0.0121	-0.1789*
	t24	-0.0395	-0.0051	0.0251	-0.0518	0.1821*	0.0489	0.0501	-0.0297	-0.0148	0.0577	-0.0753	0.1528*	0.0299	-0.0595
carnitine	t0	0.0231	0.0549	0.0298	-0.1142*	-0.0202	0.2712*	0.0662	-0.0261	0.065	-0.0023	-0.0693	0.0162	0.0188	0.0072
	t24	0.0501	-0.0359	0.035	-0.3913*	0.0023	0.0437	-0.023	-0.01	0.0238	0.1013*	-0.0309	0.0385	0.0152	-0.0172

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
3-dehydrocarnitine	t0	0.0115	0.0219	0.3185*	-0.0908	-0.0088	0.0154	0.0045	0.0551	-0.0018	0.0226	0.0493	0.0411	0.009	-0.0072
	t24	-0.0074	-0.0035	0.0396	-0.0343	0.0076	0.0351	-0.0108	0.1100*	-0.0137	0.1053*	-0.0026	0.3218*	0.0081	0.0274
acetylcarnitine (C2)	t0	-0.0082	-0.0533	0.0425	-0.0206	0.0674	0.0389	-0.0266	-0.0021	0.0231	0.0354	0.06	-0.0022	0.0233	-0.0113
	t24	-0.0104	-0.0561	0.0153	0.0003	0.2243*	0.0289	-0.0334	-0.0084	0.0254	0.0364	-0.0095	0.0459	-0.0115	0.0063
glutaroylcarnitine (C5)	t0	0.0059	-0.0238	0.0074	-0.0156	0.1363*	0.012	0.1869*	0.008	-0.004	-0.0237	0.0265	-0.0135	0.1539*	-0.0349
	t24	0.0169	0.0041	0.012	-0.0291	0.5764*	0.0658	0.0344	-0.0099	-0.0051	-0.0124	0.0281	0.064	0.0235	0.0119
methylglutaroylcarnitine (C6)	t0	-0.0366	-0.0114	0.0327	-0.0091	0.2905*	0.0043	-0.0129	-0.0106	0.035	0.0103	0.0071	0.0139	-0.0526	-0.0561
	t24	-0.0286	-0.0101	-0.013	0.0021	0.3617*	0.0026	-0.049	-0.007	-0.0176	-0.0058	0.0031	0.0054	-0.0381	-0.0325
succinoylcarnitine (C4)	t0	0.0494	-0.0301	-0.0077	-0.0654	0.0634	-0.0265	0.0229	-0.0442	0.0205	-0.0412	-0.0059	0.0129	0.0005	-0.0107
	t24	-0.0129	-0.0168	-0.1267*	0.0058	0.0938	-0.0673	-0.0215	-0.0007	-0.0759	-0.0677	-0.0055	0.2024*	0.0078	-0.0356
hexanoylcarnitine (C6)	t0	-0.0033	-0.0699	0.0234	-0.0094	0.2517*	0.0011	0.0118	-0.0146	0.0478	0.0065	0.1030*	0.0183	-0.0024	-0.0418
	t24	-0.0026	-0.0309	0.0155	0.0094	0.5418*	0.0111	0.0078	-0.0067	-0.0048	0.0253	-0.0185	0.2104*	-0.0034	0.0102
octanoylcarnitine (C8)	t0	0.0744	-0.1138*	-0.0069	-0.0308	0.1882*	-0.0188	0.0754	-0.0162	0.0342	-0.024	0.0034	-0.0062	-0.0033	-0.0362
	t24	-0.0102	-0.03	-0.0077	0.0084	0.4899*	-0.0016	0.0361	-0.009	0.0023	0.0026	-0.0174	0.0188	0.0019	-0.0164
2-octenoylcarnitine (C8)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0164	-0.0133	-0.0044	0.0117	0.2883*	0.0849	-0.065	-0.0106	-0.0383	0.0333	-0.0216	0.2621*	-0.0309	0.0025
decanoylcarnitine (C10)	t0	0.0502	-0.0766	-0.0127	-0.0422	0.1778*	-0.0245	0.0977	-0.022	0.0138	-0.0407	-0.0049	-0.0143	-0.0066	-0.035
	t24	0.0019	-0.0217	-0.0226	-0.0147	0.3470*	-0.0574	0.0716	-0.0104	0.0079	0.0051	-0.0227	0.0007	-0.005	-0.0246
laurylcarnitine (C12)	t0	0.0018	0.0009	-0.0066	-0.0394	0.079	-0.0075	0.0476	-0.0016	-0.0565	-0.0204	0.03	0.0144	0.0167	-0.0247
	t24	0.0099	0.0061	0.1230*	-0.0522	-0.0274	-0.0279	0.0903	-0.0074	-0.0183	-0.0347	0.0337	0.0272	0.0088	0.2610*
palmitoylcarnitine (C16)	t0	0.0529	-0.027	-0.0005	-0.0668	0.0619	-0.0104	0.0133	-0.0034	-0.0462	-0.0115	0.2886*	0.0015	0.0522	0.0037
	t24	0.1025*	-0.0019	0.0115	-0.0154	-0.0047	0.0021	0.0255	0.0324	0.0138	-0.0293	0.0508	-0.0318	-0.0021	0.0023
cholate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.038	-0.0727	0.029	0.0138	-0.0283	-0.0174	-0.0182	0.1302*	-0.0182	0.0113	-0.0385	-0.0174	0.2220*	-0.0137
glycocholate	t0	0.0038	0.0105	0.1359*	-0.0334	-0.0073	0.0862	-0.0092	-0.0137	-0.018	0.0584	0.4151*	-0.0194	0.0044	-0.0053
	t24	-0.0134	-0.0112	0.1688*	-0.019	-0.0038	-0.0134	0.1007*	0.0191	-0.0075	0.1851*	0.0095	0.1106*	0.1786*	-0.0235
taurocholate	t0	-0.0019	-0.0019	0.1079*	-0.0597	0.005	0.075	-0.0102	-0.0139	-0.0166	0.0728	0.4464*	-0.0046	-0.0014	-0.0146
	t24	-0.0247	-0.0318	0.1338*	-0.019	0.0235	0.0019	0.0158	0.0168	-0.0383	0.1674*	0.0273	0.2180*	0.0501	0.0088
taurochenodeoxycholate	t0	0.0042	-0.0059	0.2534*	-0.0561	-0.0036	0.0399	-0.0144	-0.01	-0.0177	0.08	0.4295*	-0.0005	0.0277	-0.0156
	t24	0.0065	-0.0116	0.1617*	-0.025	-0.0005	-0.047	0.1059*	0.0256	-0.0154	0.3791*	0.021	0.1450*	0.0388	-0.0138
ursodeoxycholate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0014	-0.0099	0.0761	-0.0335	-0.0041	0.0731	-0.1510*	-0.0019	0.2859*	0.0046	-0.0457	-0.0216	0.1043*	-0.0032
hyodeoxycholate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0191	0.0368	-0.0212	-0.0345	-0.0102	0.0007	-0.0646	0.2639*	0.0288	-0.0175	-0.0566	-0.0004	0.0289	0.1199*
deoxycholate	t0	-0.0542	0.057	-0.016	0.052	-0.0291	-0.0471	-0.029	0.0166	0.006	0.0071	-0.0118	0.1778*	-0.0843	0.016
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
glycodeoxycholate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.011	0.1841*	-0.0538	0.0134	-0.0425	0.0135	0.0347	-0.0086	0.0588	0.0181	0.0062	-0.0071	0.0571	-0.0025
glycochenodeoxycholate	t0	0.0026	0.0034	0.1819*	-0.0562	-0.0154	0.0633	-0.007	-0.017	-0.0065	0.0672	0.4607*	0.0037	0.0023	-0.0123
	t24	-0.0048	0.0048	0.2774*	-0.026	-0.0278	0.0066	0.0568	0.0239	0.0231	0.2018*	0.097	0.0863	0.1230*	-0.0247
taurolithocholate 3-sulfate	t0	-0.0287	0.0973	-0.0243	-0.0335	0.0143	-0.0116	-0.0086	0.0948	-0.0349	0.0206	0.0044	-0.0135	-0.0498	-0.0154
	t24	-0.0282	0.1242*	-0.0672	-0.0273	0.0871	0.2227*	0.0151	-0.0316	-0.0364	-0.0143	-0.015	0.4109*	-0.1091*	0.0157
glycerol	t0	0.1660*	-0.1061*	0.0125	-0.0006	-0.0025	-0.055	0.0094	0.0007	-0.0093	-0.1961*	0.0795	-0.0539	-0.0101	0.0094
	t24	0.0668	-0.1669*	0.0218	0.0065	-0.0019	-0.0211	0.0046	0.0434	-0.0272	0.0056	0.0052	0.0074	0.0477	-0.0078
choline	t0	-0.0007	-0.0405	0.0306	0.0875	-0.0149	0.0302	0.0191	-0.0141	0.0068	-0.0137	-0.0264	0.0701	0.0035	-0.0177
	t24	-0.0321	-0.017	-0.004	0.0516	0.0069	0.0895	0.0136	0.0114	-0.3160*	-0.032	-0.0467	0.0444	0.0535	-0.017
glycerol 3-phosphate (G3P)	t0	0.1261*	0.0321	-0.0431	-0.0124	-0.0103	0.0259	0.031	-0.1029*	-0.004	-0.095	-0.0475	-0.0105	-0.0101	-0.0015
	t24	0.058	-0.0061	-0.032	-0.0015	0.0193	0.0805	-0.029	0.0092	-0.025	-0.0772	-0.0295	0.0222	0.0509	0.2276*
glycerophosphorylcholine (GPC)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0183	-0.0061	0.0406	0.0026	-0.0622	-0.0602	0.027	-0.0049	-0.0182	-0.0522	-0.0003	-0.0403	-0.0302	0.5822*

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
myo-inositol	t0	-0.0153	-0.0101	-0.0244	0.0315	0.0092	-0.0336	0.0788	-0.0093	0.0323	-0.0488	-0.0553	-0.02	-0.0139	-0.0286
	t24	-0.0109	-0.0218	-0.009	-0.0006	0.3384*	-0.0172	0.0342	0.0106	0.0136	0.0263	-0.0494	-0.0087	-0.0199	-0.0618
scyllo-inositol	t0	-0.0042	-0.0369	0.0974	0.0114	-0.0197	-0.0064	0.1090*	-0.0039	-0.0061	0.0058	-0.0508	0.0964	-0.0004	0.0072
	t24	-0.0328	-0.0541	0.0273	-0.0033	0.3020*	0.0043	0.0235	0.0089	-0.0258	0.022	-0.0434	0.0403	0.0168	-0.0146
3-hydroxybutyrate (BHBA)	t0	-0.0028	-0.0367	0.0013	-0.0006	0.1108*	-0.0097	-0.0268	-0.0055	0.0288	0.0001	0.0231	-0.0364	-0.0054	-0.0309
	t24	-0.0493	-0.0834	0.1461*	0.0044	0.021	-0.0164	0.0755	0.0411	-0.0217	-0.0055	-0.0021	-0.026	-0.0871	0.0821
acetoacetate	t0	0.0036	-0.0551	-0.0081	-0.03	0.2502*	-0.037	-0.0691	-0.0158	0.0107	-0.0012	0.048	-0.0492	0.0166	-0.0227
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
1-oleoylglycerophosphate (18:1)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.2191*	-0.026	-0.0828	0.0365	-0.0201	-0.0229	0.0318	0.0264	0.0601	0.0421	0.006	-0.0002	-0.0256	-0.0153
1-oleoyl-GPE (18:1)	t0	0.0699	0.0047	0.0142	-0.0084	-0.0424	-0.0262	0.1283*	-0.0031	0.0316	-0.0354	0.0294	0.0118	0.0179	-0.031
	t24	-0.0032	0.0451	-0.0018	0.017	-0.0357	-0.0036	0.1001*	-0.0202	0.0566	-0.0288	0.0027	-0.0186	-0.0139	-0.0151
1-linoleoyl-GPE (18:2)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0394	0.0342	-0.0129	0.0045	-0.1649*	0.0027	0.0415	-0.0113	0.0376	-0.0843	-0.0242	0.0236	0.0477	-0.0217
1-arachidoyl-GPE (20:4)	t0	0.2091*	-0.0239	-0.0456	0.0333	-0.0103	-0.0253	-0.0003	-0.0162	-0.05	-0.1163*	-0.0451	0.0068	0.0158	0.0686
	t24	0.3868*	0.0104	-0.006	0.0223	-0.0897	-0.0032	0.0378	-0.0091	0.0703	-0.0417	-0.0084	0.0036	0.025	-0.0289
1-myristoyl-GPC (14:0)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.1290*	-0.038	0.0865	0.0006	-0.1957*	0.0243	0.0045	-0.0244	0.0143	-0.022	-0.0198	-0.0723	-0.0966	0.0134
1-palmitoyl-GPC (16:0)	t0	0.025	0.0107	-0.008	-0.0144	-0.0095	0.0219	0.0003	-0.025	-0.1283*	-0.0252	0.0032	-0.0002	0.032	0.0204
	t24	0.1293*	-0.0157	0.066	-0.0168	-0.1398*	-0.0307	0.0621	-0.0107	0.0081	-0.0813	-0.0206	-0.0635	-0.046	0.0503
2-palmitoyl-GPC (16:0)	t0	0.0028	0.031	-0.0232	-0.0047	-0.0007	0.0282	0.0322	0.0029	-0.0846	-0.0308	-0.0129	0.016	0.0389	-0.0118
	t24	0.1298*	0.0007	0.2102*	-0.0327	-0.1623*	-0.0187	0.0532	-0.0136	0.0061	-0.0517	-0.0117	-0.0284	-0.0746	0.1060*
1-palmitoleoyl-GPC* (16:1)	t0	0.021	-0.0041	-0.0286	0.0243	-0.0295	0.0264	0.0089	-0.0187	-0.014	-0.0294	0.0466	0.0602	0.0374	0.001
	t24	0.0635	-0.0262	0.0439	-0.0003	-0.1526*	-0.0109	0.0903	-0.0334	0.0619	-0.089	0.0062	-0.0031	-0.019	0.0328
1-stearoyl-GPC (18:0)	t0	0.0394	-0.0104	-0.0073	-0.0244	0.0036	0.0387	0.0157	-0.0574	-0.1061*	-0.0082	0.0226	0.007	0.0782	-0.0132
	t24	0.3393*	0.003	0.1069*	-0.009	-0.0847	-0.0181	0.1067*	-0.0252	0.0047	-0.0626	-0.0052	-0.0265	-0.0456	0.0735
2-stearoyl-GPC (18:0)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.2781*	0.0156	0.077	-0.0174	-0.1239*	-0.0282	0.0438	-0.0605	0.0129	-0.0576	-0.0072	-0.0299	-0.0442	0.0492
1-oleoyl-GPC (18:1)	t0	-0.0001	-0.0004	-0.0182	-0.0024	0.0077	0.0188	0.0755	-0.0208	-0.0524	-0.0119	0.0532	0.0578	0.023	0.0156
	t24	0.1589*	-0.0154	0.0611	0.0002	-0.08	-0.0363	0.1051*	-0.0121	0.02	-0.0902	-0.001	-0.0256	-0.0195	0.061
1-linoleoyl-GPC (18:2)	t0	-0.0025	0.0671	-0.0301	-0.0015	-0.015	0.0165	0.0549	-0.0331	-0.0421	-0.0055	-0.0001	0.0168	0.007	0.0056
	t24	0.0399	0.0117	0.0934	-0.0255	-0.2003*	-0.003	0.0162	-0.0437	0.0137	-0.084	-0.0197	-0.0174	-0.0172	0.0717
1-eicosatrienoyl-GPC* (20:3)	t0	0.0066	0.0009	-0.0069	-0.0031	-0.0022	-0.0237	0.0036	-0.0319	-0.0723	0.001	-0.0614	-0.0027	-0.0026	0.0058
	t24	0.2029*	-0.0294	0.1424*	-0.0159	-0.1407*	-0.0403	0.0413	-0.0216	-0.0017	-0.0284	-0.0262	-0.044	-0.0279	0.1236*
1-arachidoyl-GPC (20:4)	t0	-0.0158	-0.0019	-0.0454	0.0002	0.0721	-0.0014	0.0517	0.002	-0.0317	-0.0299	0.0005	0.0492	-0.0084	0.0642
	t24	0.0649	0.0001	0.1205*	-0.0139	-0.09	-0.0334	0.0424	-0.0277	0.0121	-0.089	-0.0202	-0.0413	-0.0443	0.2044*
1-stearoyl-GPI (18:0)	t0	0.0444	0.0056	-0.0392	-0.0462	0.0195	-0.0223	0.0956	-0.0381	0.0298	-0.0566	0.3019*	-0.0137	0.0165	-0.0058
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
1-arachidoyl-GPI (20:4)	t0	0.0055	0.0211	-0.03	0.0017	0.0084	-0.0167	0.0842	-0.039	0.054	-0.054	0.0117	-0.0268	0.0016	0.0049
	t24	0.2997*	-0.0652	-0.0201	0.1494*	-0.0399	0.0573	0.0083	-0.0717	0.0656	-0.0561	-0.0547	0.0175	-0.0337	0.0263
1-palmitoylglycerol (16:0)	t0	-0.0209	-0.0002	-0.0161	0.0562	-0.0188	0.0381	0.0282	-0.0382	-0.0417	-0.0119	-0.0386	-0.0177	0.0277	-0.0397
	t24	0.1192*	0.1572*	-0.0202	-0.0665	-0.1223*	-0.0043	-0.0275	0.0261	0.0078	-0.0154	0.0051	-0.0186	0.0844	-0.0401
1-stearoylglycerol (18:0)	t0	0.0254	0.0597	-0.0472	0.0037	-0.0603	0.0086	0.0393	-0.0626	-0.1631*	-0.1324*	-0.0085	-0.0395	0.0345	-0.0112
	t24	0.0679	0.0382	0.0213	-0.0945	-0.0192	0.0527	0.0224	-0.0225	0.01	-0.0089	0.0494	-0.0229	0.0311	-0.1024*
lathosterol	t0	0.2255*	0.0714	0.0009	-0.0315	-0.0377	-0.0175	-0.016	0.0515	0.3151*	-0.0576	-0.0014	0.0048	0.0382	-0.0731
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
cholesterol	t0	0.1999*	-0.0254	-0.0427	-0.0363	0.0881	0.0188	0.0736	-0.045	-0.0305	0.0007	0.05	0.0255	-0.0076	-0.0662
	t24	0.0249	-0.0202	-0.0298	-0.0287	0.0372	0.0407	0.0055	0.037	-0.0138	-0.0082	0.0246	-0.042	-0.0049	-0.015
DHEA-S	t0	-0.0593	0.2333*	-0.0353	0.0034	0.0093	0.0773	-0.0148	-0.0528	-0.0326	0.0624	-0.0231	-0.0939	-0.0071	-0.043
	t24	-0.0815	0.0535	-0.0184	0.0466	0.0019	0.0329	-0.0575	-0.0146	-0.0164	0.1219*	-0.0244	-0.0511	-0.0595	-0.04

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
epiandrosterone sulfate	t0	-0.029	0.3878*	-0.0122	0.0014	-0.0068	0.0618	-0.0281	-0.0227	-0.0384	0.0504	-0.0265	-0.0542	0.0105	-0.003
	t24	-0.0456	0.1079*	-0.0123	-0.0081	-0.001	-0.0095	-0.0006	-0.0068	-0.0145	0.0761	-0.0313	-0.0261	-0.2139*	0.0051
androsterone sulfate	t0	-0.0336	0.4636*	-0.01	0.0184	0.0026	0.0332	0.0022	-0.0449	-0.0119	0.0776	-0.0245	-0.0358	-0.0382	-0.0132
	t24	-0.0744	0.2010*	-0.0347	0.009	0.0067	0.0234	0.0025	-0.0235	-0.0032	0.0413	-0.0164	-0.0212	-0.1295*	-0.0183
cortisol	t0	-0.0321	-0.0139	0.0436	-0.0667	0.0799	0.0068	0.0023	-0.0688	-0.0447	0.2147*	0.036	-0.0114	-0.0063	-0.1838*
	t24	-0.0629	0.0006	0.2080*	0.0117	-0.0053	-0.0121	0.0535	0.0043	-0.0116	-0.053	-0.0048	-0.0163	-0.0411	0.3665*
cortisone	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0836	0.0565	0.0482	-0.076	-0.0015	0.2333*	0.0049	-0.0182	-0.0602	0.0406	0.018	-0.0644	-0.0157	0.0154
beta-sitosterol	t0	-0.0039	-0.0065	0.0126	0.0151	-0.0247	-0.0156	-0.0095	-0.035	-0.0404	0.0053	0.5638*	0.037	0.0637	-0.0096
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
7-HOCA	t0	-0.0036	-0.0025	0.084	-0.085	0.0173	0.0261	0.0948	-0.0094	-0.0022	0.0178	0.4928*	0.0513	0.1974*	-0.0042
	t24	-0.0021	-0.0333	0.0598	-0.0346	0.0593	0.0136	0.0317	-0.0007	-0.0199	0.0432	0.2690*	0.4825*	0.0176	0.026
xanthine	t0	0.0185	-0.0247	0.0092	0.0034	-0.0207	0.0096	-0.0057	-0.009	-0.0313	0.1055*	-0.0206	0.035	0.1224*	-0.0551
	t24	-0.0068	-0.0164	-0.0049	-0.0177	0.0483	0.2611*	0.0055	-0.0013	-0.0284	0.033	-0.0161	0.1584*	-0.0042	0.2755*
hypoxanthine	t0	-0.0219	-0.0056	-0.023	0.1474*	-0.0001	0.0324	-0.038	0.009	-0.0252	0.0272	-0.0476	-0.0098	0.0059	-0.0623
	t24	0.0093	0.0894	0.1073*	-0.1411*	-0.0651	-0.0394	-0.0233	0.1452*	-0.0049	0.0474	-0.0951	0.045	-0.0083	-0.0024
1-methyladenosine	t0	-0.0015	-0.1547*	0.0181	0.0182	0.0095	0.0073	0.0559	-0.0195	0.0325	0.0677	0.0614	0.0704	0.0232	-0.058
	t24	-0.0149	-0.1270*	-0.0138	0.0605	0.2129*	-0.0247	0.0351	-0.0082	0.0095	-0.0031	0.0174	0.0202	-0.0058	-0.0653
AMP	t0	0.0143	-0.0748	-0.0195	0.0816	0.0079	-0.0697	0.0065	0.0232	0.1130*	0.0326	0.0099	-0.0229	-0.0217	-0.0497
	t24	-0.0338	0.0128	-0.0276	-0.0047	0.0972	0.1244*	-0.0202	0.0133	-0.0297	-0.0215	-0.0044	0.2060*	-0.0145	0.2876*
N2,N2-dimethylguanosine	t0	-0.0293	-0.0342	0.0179	0.0041	0.1904*	0.0061	0.0049	-0.0356	0.046	0.0302	0.0205	0.0152	0.0788	-0.0408
	t24	-0.0535	0.0178	-0.021	-0.0314	0.1528*	0.0566	0.0362	-0.0344	0.0054	0.0282	-0.0302	0.0355	0.1639*	0.0494
N6-carbamoylthreonyladenosine	t0	-0.073	-0.0773	0.0001	0.0658	0.0243	0.033	0.0036	-0.0153	0.2768*	0.0204	-0.0245	0.0002	0.1025*	0.0202
	t24	-0.0344	-0.0329	-0.0208	0.0527	0.2595*	0.086	-0.0124	-0.0179	-0.0125	0.011	-0.0123	0.1159*	-0.024	0.1485*
urate	t0	0.1084*	-0.081	0.1151*	-0.1055*	0.0196	-0.0133	-0.0097	0.0264	0.0166	-0.0032	-0.0769	0.019	0.3445*	-0.0098
	t24	0.0218	-0.0708	-0.0066	0.0214	0.0048	-0.0134	0.0208	0.0265	-0.0407	-0.0085	-0.1932*	0.0616	0.2115*	0.1020*
allantoin	t0	0.0116	-0.0679	-0.0074	0.0389	0.0504	-0.0142	0.3516*	-0.0196	0.0019	-0.0257	-0.0089	0.0198	0.0285	-0.0065
	t24	-0.0336	-0.0735	0.0006	0.0239	0.1525*	0.0307	0.0365	0.0141	-0.0653	0.0036	-0.0443	0.0412	-0.0004	0.0167
uridine	t0	0.0057	-0.0038	-0.0033	0.0396	-0.0293	0.016	0.0167	-0.0261	-0.0049	-0.0145	-0.0212	0.072	0.0834	0.0159
	t24	0.0147	-0.0082	0.0117	0.0395	-0.0349	-0.0263	-0.0167	0.0248	-0.0876	0.0621	-0.1060*	-0.0126	-0.0194	0.0012
pseudouridine	t0	-0.0189	-0.1302*	0.0083	0.0084	0.1489*	-0.0044	0.0441	0.0071	0.1928*	0.0151	0.0968	0.0933	0.0166	-0.0213
	t24	-0.0255	-0.0244	-0.0031	0.0432	0.4568*	0.0565	0.0155	-0.0035	0.0203	-0.0137	-0.032	0.1516*	-0.0044	0.043
gulono-1,4-lactone	t0	-0.0116	0.008	0.0524	0.0166	-0.0496	0.0078	-0.0211	0.0431	-0.0337	-0.0062	0.027	0.0364	-0.0715	-0.01
	t24	-0.0234	-0.0349	-0.0227	-0.0021	0.1795*	0.0702	-0.061	-0.0411	-0.0909	-0.003	-0.0079	0.1374*	-0.0045	0.0744
threonate	t0	-0.0046	-0.0343	0.003	0.0709	-0.0137	-0.0882	-0.0079	0.0089	-0.0007	0.0204	0.0855	0.0016	-0.0355	0.0558
	t24	0.004	-0.0208	0.0037	0.0217	-0.0225	-0.0645	0.0034	0.0122	0.0114	-0.0209	-0.0106	-0.0499	-0.0181	0.0521
heme	t0	0.0021	-0.0015	-0.0387	0.2265*	-0.0621	0.0519	0.0242	0.0158	0.0454	0.1111*	0.009	0.0113	-0.013	-0.0009
	t24	-0.0739	0.006	-0.0068	-0.0043	0.0554	0.1061*	-0.0175	0.013	-0.0119	-0.0587	-0.0124	0.1906*	-0.0203	0.4018*
bilirubin	t0	-0.0397	0.1390*	0.2410*	-0.0446	-0.0113	-0.0115	0.0202	0.0094	-0.0681	0.0606	0.1123*	0.0196	0.1171*	-0.0241
	t24	-0.0008	-0.0198	0.3643*	-0.0132	0.0143	-0.1356*	0.1386*	-0.0169	-0.0853	0.0417	0.0301	0.2554*	0.1092*	-0.0358
bilirubin (E,E)	t0	-0.0086	0.0326	0.3292*	-0.0592	0.0012	0.0048	0.002	-0.0044	-0.075	0.1298*	0.2127*	0.0274	0.0701	-0.0223
	t24	0.0112	-0.0094	0.5306*	-0.0138	-0.0119	-0.0715	0.0593	-0.008	-0.0243	0.2466*	0.0243	0.0437	0.0466	0.0293
bilirubin(E,Z or Z,E)	t0	0.0043	0.0565	0.1945*	-0.1513*	-0.0308	-0.0152	0.014	0.034	-0.2435*	0.05	0.1895*	0.0584	0.0424	0.0114
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
biliverdin	t0	-0.021	0.0318	0.2921*	-0.069	-0.0156	-0.0136	0.0374	0.0161	-0.0994	0.1314*	0.1262*	0.0373	0.0844	-0.0136
	t24	-0.0403	-0.0048	0.4129*	0.004	-0.0186	-0.1518*	0.0178	0.0109	-0.0392	0.0722	0.0068	0.1179*	0.0113	0.0928
trigonelline (N'-methylnicotinate)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0912	0.0003	-0.0377	0.051	-0.0706	-0.0258	0.0773	-0.0209	0.0007	-0.0574	-0.0167	0.0228	0.1198*	-0.0119
pantothenate (Vitamin B5)	t0	-0.0318	-0.0975	0.0097	0.1179*	-0.0168	-0.1220*	-0.1091*	-0.0024	-0.0386	0.0114	0.0495	-0.009	-0.0409	0.0136
	t24	-0.0145	-0.0619	-0.0034	0.053	0.0092	-0.0381	-0.0635	0.0004	-0.068	0.0786	0.0128	-0.0474	-0.0415	0.0078

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
alpha-tocopherol	t0	0.0421	-0.0258	-0.0192	-0.0131	0.0418	-0.0105	-0.0058	0.0005	-0.0534	-0.0441	0.022	-0.009	-0.0238	0.0108
	t24	0.1126*	-0.0342	-0.1418*	0.0243	0.0056	-0.0096	-0.0222	0.0893	-0.1495*	-0.0007	0.0019	-0.0664	-0.0183	0.0312
pyridoxate	t0	-0.0457	-0.0312	-0.0345	0.0689	0.0426	0.044	-0.0218	-0.0027	-0.0346	-0.015	0.0063	0.0601	-0.0334	0.3051*
	t24	0.0059	-0.0405	-0.0068	0.4754*	-0.0041	-0.0399	-0.0083	-0.021	-0.0149	-0.0281	-0.019	-0.0136	-0.0167	0.014
hippurate	t0	0.0752	-0.0139	-0.0223	-0.013	0.0224	-0.0799	-0.015	-0.0261	0.0108	-0.024	-0.0187	0.1565*	0.1073*	-0.0303
	t24	0.0078	-0.0253	-0.022	0.0059	0.0699	-0.0061	-0.0061	-0.0372	0.0043	-0.0798	0.0418	0.0853	0.1570*	-0.045
catechol sulfate	t0	-0.0105	-0.0033	-0.0275	0.1723*	-0.0232	-0.0401	0.0676	0.0046	-0.0269	-0.0166	-0.0392	0.1487*	0.0621	-0.0249
	t24	0.0003	0.2638*	-0.0144	0.0153	-0.0593	-0.0002	0.038	0.1468*	0.0558	-0.0571	-0.0265	-0.0293	0.0227	-0.0118
4-vinylphenol sulfate	t0	0.0045	0.0533	-0.0373	0.0196	-0.0445	-0.0168	0.01	-0.0298	-0.0448	-0.0334	-0.0303	0	0.0682	-0.0177
	t24	0.0359	0.0271	-0.0472	-0.0315	0.0147	-0.004	0.1386*	-0.0163	0.0159	-0.0657	-0.0355	0.0046	0.1062*	-0.0254
glycolate (hydroxyacetate)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0231	0.2867*	-0.0223	-0.0047	-0.0593	0.0261	0.0119	-0.0324	0.0188	0.022	0.0502	-0.0119	0.0085	0.0109
iminodiacetate (IDA)	t0	-0.0129	0.1067*	0.0077	-0.0009	-0.0383	0.0042	-0.0679	0.0798	-0.089	0.0367	-0.0001	0.0173	-0.0106	0.0133
	t24	0.0718	0.0278	-0.0089	0.0002	-0.1001*	0.0979	-0.0415	-0.024	-0.1009*	0.0404	0.0107	-0.0059	-0.0022	0.0147
salicyluric glucuronide	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.3012*	-0.0313	-0.0125	-0.0279	-0.0023	-0.0219	-0.0037	0.0014	-0.0475	-0.0107	-0.0097	-0.0126	-0.0505	0.0428
4-acetaminophen sulfate	t0	0.0068	0.0533	-0.0197	0.0247	-0.1272*	-0.0126	-0.03	0.0615	0.0381	-0.0198	-0.0645	0.0299	0.0025	-0.0231
	t24	-0.1282*	0.0505	-0.0194	0.0246	-0.0041	0.1619*	-0.0586	0.0026	-0.0366	-0.1005*	-0.0336	0.1125*	-0.0138	-0.0188
4-acetamidophenol	t0	0.0217	0.05	-0.0216	0.0246	-0.1054*	-0.0014	-0.0162	0.0086	0.0649	-0.0072	-0.0552	0.0201	-0.0148	-0.02
	t24	-0.0483	0.1617*	-0.0033	0.0034	-0.0001	0.1795*	-0.0552	-0.0065	-0.0365	-0.0699	-0.0519	0.0512	-0.0276	-0.058
p-acetamidophenylglucuronide	t0	-0.0039	0.0549	-0.0037	0.0194	-0.1089*	-0.0212	-0.0688	0.1101*	0.1251*	-0.0194	-0.069	0.1783*	0.0153	-0.0431
	t24	-0.1282*	0.0417	-0.0046	0.0344	-0.0251	0.0223	-0.0884	0.0199	-0.0009	-0.1001*	-0.0317	0.075	-0.0177	-0.0139
2-hydroxyacetaminophen sulfate	t0	0.0108	0.0734	-0.0436	0.0083	-0.0823	-0.0108	-0.0176	-0.0061	0.0241	-0.0299	-0.0558	0.014	0.0311	-0.0384
	t24	-0.1024*	0.0446	-0.0599	0.02	0.0071	0.0643	-0.0692	-0.0176	-0.0636	-0.1137*	0	0.003	-0.0846	-0.0437
2-methoxyacetaminophen sulfate	t0	-0.0213	0.0642	-0.02	0.0462	-0.1085*	0.0005	-0.0053	0.008	0.0956	0.0189	-0.0657	0.0559	0.0191	-0.0206
	t24	-0.1329*	0.0417	-0.0205	0.0312	-0.0063	0.2364*	-0.0799	-0.0355	-0.0159	-0.0295	-0.0449	0.059	-0.0088	-0.0198
3-(cystein-S-yl)acetaminophen	t0	-0.0188	0.0807	-0.0025	0.0185	-0.0473	-0.0085	-0.05	0.0316	0.0242	-0.0036	-0.0445	0.3527*	-0.0324	-0.037
	t24	-0.0372	0.2642*	-0.0262	0.0079	-0.0159	0.1222*	-0.0145	-0.0143	-0.0307	-0.0064	-0.0138	0.0592	-0.035	-0.0311
ibuprofen	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0144	-0.0643	-0.0092	0.1056*	-0.0309	-0.0142	-0.0135	-0.011	0.2071*	-0.0228	-0.0171	-0.0225	-0.0154	-0.0136
hydroquinone sulfate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0118	0.0077	-0.0148	0.2783*	-0.0494	0.0148	0.0702	0.0989	0.0271	-0.011	-0.0786	0.0614	0.0026	-0.0286
galactonate	t0	0.1867*	0.0212	0.0098	-0.0497	-0.0635	-0.0476	0.1796*	-0.0189	0.0204	-0.0706	0.0096	-0.0227	-0.0038	-0.045
	t24	-0.0006	0.1074*	-0.0083	-0.0073	-0.0204	-0.01	0.0354	-0.0133	0.0539	0.0004	-0.0015	-0.0292	-0.0292	-0.0132
quinate	t0	0.0009	0.0076	-0.021	0.0806	-0.0242	-0.0801	0.0274	-0.012	-0.0034	0.0032	-0.0291	0.1264*	-0.026	0.0134
	t24	0.0275	0.0252	-0.037	0.0685	-0.0483	-0.0202	0.037	0.0071	-0.0296	-0.0675	-0.0209	0.0652	0.2459*	0.0002
piperine	t0	0.0125	0.0137	0.1721*	-0.0151	-0.1	-0.0516	0.3061*	0.0182	-0.064	0.0015	-0.0222	0.0471	0.0911	0.0487
	t24	-0.0198	0.0167	0.1898*	0.0036	-0.0968	-0.01	0.2406*	0.0167	0.001	0.0086	-0.0327	0.0209	0.0538	0.0068
caffeine	t0	0.0025	-0.0117	0.0573	-0.0727	0.0361	0.0011	0.0295	-0.041	0.0228	0.0044	0.6064*	0.0467	0.0143	-0.0132
	t24	-0.0015	-0.0355	0.0623	-0.0128	0.0108	0.0042	0.1401*	-0.0219	-0.0288	0.0093	0.1801*	0.1890*	0.2147*	-0.0275
1-methylurate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0213	-0.0217	-0.0269	0.01	0.2864*	0.023	-0.0394	-0.0138	-0.0258	-0.0234	-0.0185	0.0197	-0.0239	-0.0055
erythritol	t0	-0.0469	-0.0717	0.0185	0.1730*	0.0172	-0.1229*	0.0593	0.0625	-0.0006	-0.0178	0.09	0.0703	0.0012	-0.0017
	t24	-0.0442	-0.036	-0.032	0.062	0.2857*	0.0376	-0.0113	0.0187	-0.0166	-0.0217	-0.0186	0.1244*	-0.0231	0.0567
X-01911	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.004	0.0032	0.4953*	0.0143	-0.0369	-0.0038	0.0254	0.039	0.0172	0.0057	-0.1009*	0.0295	0.2262*	0.0037
X-02249	t0	-0.0023	0.0862	0.0346	-0.043	-0.0686	0.0109	0.0296	0.0025	0.0263	-0.0306	-0.0239	0.0246	0.0957	-0.0168
	t24	-0.0078	0.0716	0.0333	-0.0204	-0.0143	0.0127	0.1788*	-0.007	0.0178	-0.0626	-0.0553	0.0359	0.0435	-0.0036
X-03056	t0	-0.0779	-0.0809	0.0239	0.0981	0.0129	0.0491	0.021	-0.0054	0.0035	0.0092	-0.0476	0.0297	-0.0047	0.0113
	t24	-0.078	-0.0204	-0.0156	0.0407	0.2830*	0.0964	-0.0163	-0.0105	-0.0008	-0.0237	-0.0558	0.1669*	-0.0516	0.0921

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-06126	t0	-0.0482	0.0344	-0.0152	0.1699*	-0.0753	0.0069	0.0265	-0.0093	0.0117	0.0026	-0.1011*	-0.0478	-0.0211	-0.0064
	t24	-0.0215	0.0748	-0.0617	0.0959	-0.0648	0.0096	0.0146	0.1112*	0.042	-0.0302	-0.1587*	-0.0153	-0.09	-0.0189
X-07765	t0	0.1317*	0.0105	-0.0661	-0.0056	-0.1065*	-0.0224	0.0031	-0.0154	0.0104	-0.0651	-0.0475	0.0334	0.0071	-0.0384
	t24	0.1384*	0.0909	-0.0043	-0.0766	-0.0474	0.0295	0.0022	-0.0285	0.05	-0.066	-0.0315	0.0324	0.0366	-0.0262
X-09789	t0	0.0322	0.0151	0.0762	-0.0303	-0.0743	-0.1098*	0.0585	0.0175	0.0035	0.0139	-0.0437	0.0807	0.1220*	0.0067
	t24	0.0108	-0.0375	0.1148*	0.018	-0.0593	-0.0221	0.0482	0.0049	-0.0044	0.0283	-0.0797	0.1856*	0.2944*	-0.0208
X-11204	t0	0.1433*	0.0293	-0.002	-0.0522	-0.0456	0.0251	-0.0369	-0.0074	-0.0602	0.001	0.0506	0.0211	0.0331	0.0116
	t24	0.0615	0.0126	0.0658	-0.0545	-0.0349	-0.0237	0.0181	-0.0846	-0.0127	-0.0266	0.0262	-0.0133	-0.0012	0.0845
X-11244	t0	-0.0179	0.0972	-0.0262	-0.0191	0.0071	0.0168	0.0268	-0.0174	0.0214	-0.0331	0.0124	-0.0459	0.3400*	-0.0221
	t24	-0.0442	0.0578	-0.039	-0.0016	0.0164	0.0141	0.0932	-0.0166	0.0101	-0.0427	0.0265	-0.0961	0.1738*	-0.0302
X-11245	t0	-0.0329	0.0866	-0.0448	-0.0878	0.1069*	0.0257	0.0958	-0.055	-0.0065	-0.0451	0.2975*	-0.0283	0.0198	-0.0448
	t24	-0.036	0.0633	-0.0248	-0.0157	0.4503*	0.0222	0.0844	-0.0008	-0.0182	-0.067	0.1346*	0.0181	-0.0008	-0.0242
X-11255	t0	-0.0226	0.1217*	0.1355*	-0.0624	-0.0119	0.0316	-0.0678	0.0695	-0.0181	0.1751*	0.0306	0.0543	0.0021	0.0387
	t24	-0.0187	0.1945*	0.0746	-0.1205*	-0.0037	0.0163	-0.0557	0.2191*	-0.012	0.0258	0.0063	0.1937*	0.0184	0.0696
X-11261	t0	-0.0207	-0.0086	0.0209	0.0598	-0.0275	-0.0333	0.0971	-0.0234	0.0525	-0.0819	-0.006	0.0126	0.0182	-0.0169
	t24	-0.0191	0.0191	0.0315	-0.0206	-0.0088	-0.0012	0.0028	-0.0152	0.0229	0.0139	-0.0408	0.1357*	0.0323	0.0042
X-11273	t0	-0.0385	0.0763	-0.0624	-0.0071	0.046	0.1592*	-0.0115	-0.0201	-0.0962	-0.0034	-0.0491	-0.0643	0.0233	-0.0832
	t24	-0.0278	0.0237	-0.051	-0.0408	0.0878	0.0287	-0.036	0.0244	-0.1302*	0.0058	-0.0465	-0.002	-0.0946	-0.0474
X-11282	t0	-0.02	0.1492*	0.005	-0.0431	-0.0055	-0.0344	0.0899	0.0213	-0.1047*	-0.0198	0.1049*	0.0218	0.0124	-0.0198
	t24	-0.0135	0.0024	-0.0115	0.0072	0.2106*	0.0846	0.0027	-0.0132	-0.012	-0.0277	0.0161	0.2063*	-0.0113	0.2624*
X-11299	t0	0.0243	0.0049	0.0013	0.0083	-0.0315	-0.0278	0.1351*	0.003	-0.021	-0.0571	-0.0353	-0.0077	0.0955	0.0161
	t24	-0.0035	0.0364	0.0217	-0.0393	-0.0146	0.0122	0.0895	-0.0078	-0.0059	-0.0288	-0.069	0.0421	0.2199*	0.0299
X-11302	t0	-0.0061	0.3372*	0.0029	-0.0202	0.0075	0.0225	0.0022	-0.0204	-0.0785	0.0154	0.0491	-0.0332	0.0158	-0.0495
	t24	-0.0638	0.0296	-0.0197	-0.0425	0.2213*	0.0403	-0.0031	0.0181	-0.095	0.022	-0.0043	0.0742	-0.1150*	-0.0111
X-11303	t0	-0.0145	0.2726*	-0.0205	-0.0292	0.0066	-0.0039	-0.0102	0.075	-0.0848	0.0037	-0.0008	0.0006	-0.0219	-0.0116
	t24	-0.0235	0.0662	-0.0879	0.0025	0.0035	0.2694*	0.0339	-0.0477	-0.0195	0.0062	-0.0449	0.3882*	-0.0594	-0.0026
X-11308	t0	-0.0335	0.1321*	0.0954	-0.0756	-0.0167	0.0001	0.0077	0.0108	-0.0469	-0.0092	-0.0055	0.016	0.0245	0.0458
	t24	-0.028	0.0209	0.032	-0.0751	0.0353	0.023	0.0355	-0.0567	-0.0498	0.006	-0.0266	0.1257*	-0.0193	0.013
X-11315	t0	-0.0181	0.0061	0.1257*	-0.0065	-0.0123	0.0148	-0.0132	-0.0673	0.0094	0.0425	0.001	-0.0007	0.0165	0.0929
	t24	-0.0158	0.0219	0.1912*	-0.0789	-0.0009	0.0358	-0.0693	-0.0268	0.0342	0.016	-0.0255	0.0204	0.019	0.1502*
X-11317	t0	0.0536	-0.0154	-0.018	0.0021	-0.0013	-0.0357	0.0285	-0.1080*	-0.0559	-0.026	0.0032	0.004	0.0737	0.0202
	t24	0.0729	-0.0252	-0.0263	0.0052	-0.0137	0.0099	0.012	-0.0109	-0.0497	-0.1096*	-0.0099	-0.019	0.0858	-0.0288
X-11327	t0	0.0797	0.0039	0.0196	-0.0303	-0.0606	0.0147	-0.0306	-0.0115	-0.0291	-0.0028	0.0008	-0.004	0.0328	0.0014
	t24	0.0749	0.0022	0.0625	-0.0563	-0.0453	-0.0103	-0.0002	-0.0556	-0.0033	-0.0307	0.0179	-0.0383	0.0087	0.013
X-11333	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0031	-0.0303	-0.0016	-0.034	0.2161*	0.0163	-0.0034	-0.0154	-0.07	0.0056	-0.0509	0.0674	0.0045	0.0204
X-11334	t0	-0.0013	-0.1344*	-0.0084	0.0667	0.0126	-0.0199	0.005	0.1373*	-0.0229	-0.0199	-0.052	0.0158	-0.0413	-0.0779
	t24	-0.0232	-0.0733	-0.0119	0.0312	0.2490*	0.0306	0.0223	0.0644	-0.041	0.004	-0.0472	0.088	-0.0429	0.0189
X-11381	t0	-0.0146	-0.031	0.0243	0.0227	0.0019	0.2599*	-0.0064	0.0129	0.0128	0.0675	0.0412	-0.0116	0.0044	0.0033
	t24	-0.0123	-0.0521	-0.0123	-0.0031	0.0725	0.012	-0.004	0.0176	-0.009	0.0696	0.0093	0.0094	0.0026	-0.0142
X-11400	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.01	0.0045	-0.0444	-0.0184	0.0292	-0.0186	-0.084	0.068	-0.0087	0.1801*	0	-0.0123	-0.0615	0.0055
X-11412	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0954	0.0241	-0.002	-0.0355	-0.0418	0.031	0.0034	0.0512	-0.0243	-0.1782*	-0.0674	-0.0537	0.01	0.0054
X-11421 (4-cis-decenoylcarnitine)	t0	0.0261	-0.0292	-0.0131	-0.0206	0.3155*	-0.0319	0.0762	-0.0489	0.0039	-0.0136	-0.021	-0.0067	0.0046	-0.0372
	t24	-0.031	-0.0239	-0.0029	-0.0014	0.3100*	-0.0033	0.0036	-0.0098	-0.0113	0.1026*	-0.036	0.0134	-0.0087	-0.0794
X-11422	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0149	0.0017	-0.0059	-0.0074	0.0503	0.1416*	-0.0112	0.0093	-0.1053*	0.0008	-0.0283	0.1279*	0.0055	0.0373
X-11423	t0	-0.0779	-0.1752*	-0.0163	0.1193*	0.0522	0.0228	0.0001	-0.0017	0.0281	0.0226	0.003	0.0333	-0.031	-0.0267
	t24	-0.0289	-0.1270*	-0.0723	0.0885	0.1411*	0.0535	0.0246	0.0021	0.0228	0.0006	-0.0779	0.0911	-0.045	-0.0338

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-11429	t0	-0.0414	-0.0141	-0.0314	0.0334	0.1208*	-0.0179	0.0242	-0.0339	0.1450*	0.0063	0.0525	-0.0243	0.0445	0.0176
	t24	0.0073	-0.0537	-0.0146	0.0468	0.4011*	0.0351	0.0011	-0.0007	0.0438	-0.0268	-0.0026	0.2985*	-0.0044	0.0066
X-11437	t0	0.2327*	-0.0463	0.0102	-0.0518	0.0355	-0.0349	-0.0019	-0.0149	0.0178	-0.0223	-0.0455	-0.0232	-0.046	-0.1510*
	t24	0.0084	-0.0581	0.0103	0.0002	0.021	-0.0375	-0.0245	0.0146	-0.0737	-0.0051	-0.0606	-0.0207	-0.0417	-0.0468
X-11438	t0	-0.0343	0.1397*	0.0278	-0.1794*	0.0099	0.0028	0.0465	-0.0519	0.01	0.1140*	0.0173	0.0273	0.0479	-0.0444
	t24	-0.0695	0.0157	-0.0371	-0.0159	0.1586*	0.0407	0.0104	-0.0017	-0.0168	-0.0749	-0.0013	0.4404*	-0.01	0.2476*
X-11440	t0	-0.0205	0.1226*	-0.0183	-0.0642	0.0347	0.0304	0.0511	-0.0722	-0.0624	-0.0247	0.0998	-0.0546	-0.0053	-0.0562
	t24	-0.0538	0.0175	-0.0133	-0.0101	0.4067*	0.027	0.0626	0.0028	-0.0573	-0.0308	0.0165	0.0351	-0.0424	0.0106
X-11441	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0771	0.0011	0.0376	-0.0137	0.0142	0.0029	-0.007	0.0012	0.0156	0.0534	0.1240*	0.2743*	0.0496	0.2850*
X-11442	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0359	-0.0038	0.0647	-0.0308	0.017	-0.0072	-0.0033	-0.0072	0.0056	0.0623	0.1429*	0.2560*	0.0174	0.1144*
X-11443	t0	-0.0103	0.2505*	-0.0118	-0.0007	-0.0102	0.0671	-0.0288	-0.0175	-0.0204	-0.0164	-0.0102	-0.0289	0.2804*	0.0057
	t24	-0.057	0.0474	-0.077	-0.0024	0.0356	0.0197	0.1097*	0.0044	-0.0866	-0.1250*	-0.0012	0.0196	0.0073	0.1113*
X-11444	t0	-0.1018*	0.0342	0.0236	-0.0328	-0.0011	-0.0292	0.0342	-0.004	-0.0385	0.0182	-0.0208	-0.0282	-0.0327	-0.0165
	t24	-0.0274	-0.0324	-0.0184	0.1747*	0.0381	-0.0144	-0.0071	0.0888	-0.1276*	0.0431	-0.1100*	-0.0673	-0.0631	-0.0175
X-11445	t0	0.0167	0.2135*	-0.0158	-0.0505	-0.006	-0.0037	0	0.0203	0.0329	-0.0049	-0.0038	-0.0279	-0.0594	-0.0198
	t24	-0.0606	0.1461*	-0.0482	-0.0817	0.0868	0.0342	0.0102	0.0378	0.0194	-0.006	-0.0022	-0.0082	-0.1105*	-0.0049
X-11450	t0	-0.0254	0.0509	-0.0466	-0.2189*	0.0611	0.0221	0.081	-0.0615	-0.0117	0.0027	0.3862*	-0.0385	0.0546	-0.057
	t24	-0.0272	0.0199	-0.0012	-0.0485	0.1746*	0.0829	0.1987*	-0.0365	-0.0184	0.0251	0.2635*	0.0121	0.0447	-0.0356
X-11452	t0	0.0055	0.0128	0.0901	-0.0296	-0.1934*	-0.0371	0.2402*	0.0046	-0.0286	-0.0039	-0.0507	0.0036	0.0365	0.0939
	t24	0.0093	-0.0019	0.2699*	0.0002	-0.0863	-0.0166	0.0741	0.0027	-0.0043	-0.0028	-0.0654	0.055	0.0813	0.0039
X-11469	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0731	0.0196	0	-0.0799	-0.0245	0.0197	-0.082	0.0063	0.0062	-0.0585	-0.0311	-0.0435	-0.0052	0.1075*
X-11470	t0	-0.0191	0.0285	-0.0259	0.0032	0.0044	-0.0425	0.0135	-0.0255	-0.0144	0.1436*	0.0206	-0.0386	-0.0523	-0.048
	t24	-0.1024*	-0.0063	-0.0423	0.0193	0.0944	-0.0191	0.0075	0.0078	-0.0343	0.012	-0.0094	0.091	0.0006	-0.0029
X-11476	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0105	-0.0904	0.0196	-0.0017	0.0157	0.033	0.0113	-0.067	0.074	-0.0061	0.0465	-0.0184	-0.0271	0.0169
X-11478	t0	-0.0577	0.0378	0.087	-0.0585	-0.0346	-0.0597	0.1849*	-0.0045	0.0142	0.1340*	0.0034	0.0896	0.0228	-0.0064
	t24	-0.0132	0.0071	0.0228	0.0167	-0.0297	-0.0482	0.0335	-0.008	-0.0678	0.2591*	0.0931	0.2127*	0.0099	0.0096
X-11483	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.1728*	-0.0026	0.0053	-0.0124	-0.0446	0.0003	0.0744	-0.0244	0.0196	-0.0285	-0.0421	0.0077	0.0335	0.0108
X-11490	t0	-0.038	0.0124	0.0024	-0.1246*	0.1132*	-0.0176	0.0215	0.0015	-0.003	-0.0132	0.2901*	0.0034	-0.0378	-0.0491
	t24	-0.0263	-0.005	-0.0084	-0.0053	0.1886*	0.0994	-0.0111	-0.0116	-0.0205	-0.0364	-0.0069	0.2132*	-0.026	0.1977*
X-11491	t0	-0.0044	-0.0228	0.0176	-0.0292	0.0813	-0.0542	0.1333*	0.0007	0.0325	-0.0444	0.4162*	0.028	-0.0091	0.0319
	t24	-0.0023	-0.0384	0.0099	-0.0192	0.1396*	-0.0194	0.1318*	-0.0049	0.0381	-0.0094	0.2852*	0.1283*	0.0179	-0.0049
X-11497	t0	-0.0196	0.0157	-0.049	-0.0211	0.0969	-0.027	0.0072	0.0038	-0.0142	0.1001*	0.0186	-0.0136	0.0134	0.3330*
	t24	0.2530*	-0.0109	-0.004	-0.0208	-0.0093	-0.0369	0.0137	-0.0263	0.0034	-0.0347	0.002	-0.0076	0.1241*	0.091
X-11510	t0	0.0226	-0.0367	0.1401*	-0.0368	0.01	0.0146	0.0429	-0.0454	-0.0063	0.0391	0.3635*	0.0111	0.1478*	-0.0567
	t24	-0.0108	-0.0409	0.1703*	-0.0426	0.0372	0.036	0.1209*	-0.0322	-0.0069	0.1592*	0.1451*	0.0682	0.0928	-0.0312
X-11513	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0057	0.0078	-0.0351	0.0453	-0.0767	0.0214	0.0856	-0.0111	-0.1410*	-0.0798	-0.0293	0.1171*	0.1092*	0.02
X-11521	t0	-0.0042	-0.0137	0.3022*	-0.0066	0.0068	0.0895	-0.0428	-0.0005	0.0566	-0.0588	-0.0081	-0.0486	-0.0178	-0.0243
	t24	-0.0163	-0.0108	0.0045	-0.0192	0.0988	-0.0133	-0.0226	-0.0133	-0.0631	0.0261	-0.0145	0.0136	-0.0038	-0.0175
X-11522	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0258	-0.0089	0.0482	-0.0294	0.1590*	0.0101	0.014	-0.0001	-0.0038	0.0024	0.2379*	0.3637*	0.0129	0.1865*
X-11529	t0	-0.0441	0.083	-0.0223	-0.0602	0.0569	-0.0575	0.0019	0.0092	-0.0255	-0.0411	0.2088*	0.0333	-0.029	-0.0201
	t24	-0.0557	0.0845	-0.0349	-0.0539	0.0776	0.0088	-0.0265	-0.0061	-0.0077	-0.0829	0.051	0.1464*	-0.01	-0.0252
X-11530	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0394	-0.0273	0.0515	-0.0709	0.0682	0.0276	0.0193	-0.0097	-0.0155	0.0057	0.1760*	0.3381*	0.0067	0.1873*

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-11533	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0159	-0.3289*	-0.0023	-0.0008	0.0714	0.0247	0.0282	-0.0026	-0.0095	-0.3304*	0.0039	0.031	-0.0434	0.0042
X-11538	t0	-0.0243	-0.0117	-0.0233	-0.0043	0.1553*	-0.0261	0.0395	-0.0129	0.0332	-0.0102	0.3920*	-0.0084	-0.0097	-0.0231
	t24	-0.0257	-0.0244	-0.0289	0.0291	0.066	0.015	0.085	-0.0181	0.1079*	0.0025	0.2520*	0.0549	-0.041	-0.0175
X-11542	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0341	0.002	0.0929	-0.0197	0.0174	-0.0155	0.0383	-0.2982*	-0.0036	0.0197	0.031	-0.0117	-0.0741	0.0124
X-11546	t0	0.0006	-0.0051	0.1343*	-0.0194	-0.0127	0.1749*	-0.018	-0.0117	0.0155	0.2388*	0.2948*	-0.005	0.0008	-0.0096
	t24	-0.004	-0.0215	0.0987	0.0214	-0.0539	0.1555*	-0.0264	0.0746	0.1416*	0.0316	-0.0067	0.009	0.1275*	-0.0347
X-11550	t0	0.0279	0.0248	0.0418	-0.0605	-0.0486	-0.0665	0.0095	-0.009	-0.0349	0.003	0.0623	0.0174	0.0521	0.1234*
	t24	0.1250*	-0.05	-0.0053	-0.0236	0.0224	-0.0378	0.0819	-0.0257	0.052	-0.0826	0.1916*	-0.0131	-0.0015	-0.0045
X-11564	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0288	-0.1028*	0.1778*	-0.0273	0.1809*	0.0458	0.0003	0.0096	-0.0021	0.2052*	0.0083	0.1185*	0.04	0.0853
X-11593	t0	-0.0362	-0.0375	0.0492	0.0242	0.0472	-0.0207	-0.0464	-0.0355	-0.012	-0.0038	0.0336	-0.0167	-0.0767	0.0056
	t24	-0.0194	-0.0846	-0.0136	0.0307	0.0616	-0.0136	-0.02	0.0032	-0.0288	-0.0611	-0.0271	0.0335	-0.0299	-0.008
X-11687	t0	-0.0327	-0.01	-0.018	0.04	0.0282	-0.0185	-0.0021	0.0286	-0.0009	-0.0158	0.0112	-0.0005	0.0085	-0.0618
	t24	-0.0238	-0.044	-0.0078	0.0236	0.2658*	0.0758	-0.0057	0.0018	-0.0091	-0.0194	0.0018	0.1702*	-0.0239	0.1405*
X-11727	t0	0.1284*	0.0308	0.0323	-0.0965	-0.0873	-0.0423	0.0235	0.0129	0.0415	-0.002	0.013	-0.0378	-0.0295	0.0052
	t24	-0.019	0.0381	0.0028	-0.0644	0.0434	0.0344	0.0202	-0.0547	-0.0042	0.0101	-0.064	-0.0517	-0.0333	0.0112
X-11786	t0	0.1455*	-0.0161	-0.0338	-0.0131	0.0171	-0.0499	0.0017	0.0097	0.2512*	0.0167	0.0325	0.031	0.2391*	0.0741
	t24	0.0429	-0.0296	0.0058	0	-0.0075	-0.0289	-0.0208	0.0032	0.3763*	0.0085	-0.0181	0.2111*	0.0945	0.2349*
X-11787	t0	-0.0293	-0.0357	0.1142*	0.0057	0.0281	-0.0466	-0.0431	-0.0315	-0.0164	-0.0021	-0.0176	-0.011	-0.0349	-0.0032
	t24	-0.0217	0.0027	0.0047	-0.043	0.0403	-0.0093	-0.0429	-0.0205	-0.0376	-0.0202	-0.3263*	-0.0205	-0.014	0.0016
X-11793	t0	-0.0217	0.0425	0.2084*	-0.0929	-0.0149	0.0044	0.0298	-0.0065	-0.0432	0.2211*	0.1405*	0.0446	0.038	-0.0178
	t24	-0.0227	-0.0062	0.0564	0.011	-0.0534	-0.0076	0.0473	-0.0487	-0.0657	0.4580*	0.1108*	0.0215	0.0034	0.004
X-11795	t0	0.0003	-0.0066	-0.0024	-0.0245	0.0664	-0.0069	0.0708	-0.0209	0.1240*	-0.0218	0.2459*	0.0371	0.0287	-0.02
	t24	0.028	-0.0472	-0.0228	-0.0212	0.0429	-0.0395	0.0556	-0.0234	0.1580*	-0.0161	0.2025*	0.0629	0.0681	-0.0257
X-11799	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0152	0.0072	-0.0267	0.0551	-0.0408	0.0259	0.027	0.0166	-0.0594	-0.0634	0.01	0.1552*	0.1859*	0.0085
X-11809	t0	-0.0023	0.0488	0.054	-0.0178	-0.0276	0.0283	-0.0121	0.0192	-0.1716*	0.0299	0.2405*	0.0263	0.1494*	-0.0082
	t24	-0.0198	-0.011	0.3879*	0.0045	0.0044	0.001	0.0339	-0.0036	-0.0151	-0.0425	-0.0171	-0.0137	-0.038	-0.0225
X-11818	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.1307*	-0.0861	-0.0255	0.0071	0.0073	-0.0407	-0.0228	0.038	0.001	-0.0198	-0.0427	-0.0109	0.0108	0.1682*
X-11826	t0	-0.0315	0.0044	-0.0315	0.0178	0.0207	-0.0361	0.0074	0.0108	-0.0011	-0.0293	-0.0258	0.0275	0.0297	-0.016
	t24	0.0056	0.0131	-0.0262	0.0324	-0.0238	-0.0727	0.0114	0.0654	-0.0265	-0.0598	-0.0323	0.0644	0.0196	0.0134
X-11832	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0272	-0.0108	-0.0185	0.035	0.0354	-0.0173	0.0382	-0.0127	-0.0432	-0.0181	0.0123	-0.0398	-0.0025	-0.0334
X-11838	t0	-0.0243	-0.0227	0.1751*	0.017	0.0023	0.1002*	-0.044	-0.0035	0.084	0.0591	-0.053	0.0361	0.0066	-0.0045
	t24	-0.0335	0.0415	-0.0253	0.0232	-0.0148	0.1016*	-0.02	0.0191	0.0305	-0.1011*	-0.0417	0.1105*	0.0166	0.0075
X-11843	t0	-0.0026	0.0063	-0.009	-0.0018	-0.0004	-0.0332	0.0391	-0.0012	-0.0154	-0.1290*	-0.0275	-0.042	-0.1863*	0.0557
	t24	0.0166	-0.0079	-0.0257	-0.0245	0.0763	-0.0389	-0.0005	0.0074	-0.0447	-0.0659	-0.0213	-0.0118	-0.1649*	0.0247
X-11850	t0	-0.0183	-0.0102	0.0091	-0.0063	0.0234	-0.0254	0.085	0.006	-0.0308	-0.1022*	-0.0303	-0.0176	-0.0921	0.0259
	t24	0.0008	-0.0074	-0.0322	-0.0154	0.1100*	-0.0074	0.0184	0.0064	-0.0509	-0.0811	-0.0235	0.004	-0.0881	0.0474
X-11853	t0	-0.0028	0.0303	0.0268	-0.0945	0.0169	-0.0281	-0.0398	0.0243	0.0563	0.0286	-0.0107	0.0165	-0.0096	-0.0032
	t24	0.02	-0.1996*	-0.0141	0.0658	0.0089	0.0285	0.0462	-0.0237	0.0594	-0.0094	0.0109	-0.0254	-0.0333	-0.0335
X-11859	t0	0.0299	0.0368	-0.0086	-0.1597*	-0.0061	-0.0184	0.0039	-0.0384	-0.0168	0.0119	-0.0069	0.012	-0.0392	0.2129*
	t24	0.2359*	-0.1606*	0.0407	-0.0032	-0.0004	-0.0161	0.0691	-0.0614	0.0047	-0.0431	-0.0014	-0.0947	0.0072	0.001
X-11861	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.3096*	-0.0565	-0.0243	0.0115	-0.0036	-0.0345	-0.0173	-0.0001	0.0036	0.0146	-0.0427	0.0428	0.0101	-0.0422
X-11868	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0142	0.0065	-0.0066	-0.0252	0.0031	-0.0436	-0.0421	-0.0276	0.01	-0.0219	-0.0016	0.0271	-0.007	-0.0482

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-11880	t0	0.0069	0.0994	0.0459	-0.1474*	-0.0231	0.1750*	0.0281	-0.0203	-0.0199	0.0115	0.0188	-0.0099	0.1335*	-0.0241
	t24	-0.0158	0.2670*	0.0917	-0.1338*	-0.0473	0.0091	0.0354	-0.0071	0.03	0.0644	0.0074	0.042	0.012	-0.0097
X-11945	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0326	-0.0693	-0.0271	0.0175	0.2463*	0.1871*	-0.0233	0.0054	-0.0136	0.0834	-0.0334	0.1562*	-0.0259	0.0341
X-11977	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.1158*	-0.1680*	0.0708	0.0133	0.1319*	-0.0099	0.0039	0.0228	-0.0011	0.0552	-0.005	-0.1116*	-0.0605	-0.0068
X-12007	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0025	0.0216	-0.0099	-0.0017	-0.0114	0.0725	0.0004	0.0027	-0.0341	-0.1592*	-0.0566	0.0042	0.0164	0.0076
X-12029	t0	-0.0712	-0.0023	0.027	0.0127	0.0013	0.034	-0.0388	-0.0295	-0.0217	0.0167	-0.1300*	0.0418	-0.0128	0.0383
	t24	0.0314	-0.008	-0.0168	0.0229	-0.009	0.015	-0.0541	0.0402	0.0021	-0.0478	-0.4960*	0.0294	-0.0288	0.0079
X-12038	t0	0.1145*	0.0147	-0.0316	-0.0107	-0.0255	-0.0537	0.0218	-0.0694	-0.0111	-0.0476	-0.0065	-0.023	0.1303*	-0.0038
	t24	0.1337*	-0.0146	-0.0102	-0.007	-0.0161	0.0004	-0.0037	0.0195	-0.0112	-0.2587*	-0.0258	-0.0302	0.0499	-0.0289
X-12051	t0	0.0028	0.019	0.1535*	-0.0236	-0.0657	0.1904*	-0.0593	0.0341	-0.0157	0.0125	0.0743	-0.0184	0.0735	-0.0212
	t24	0.0027	-0.0261	0.1441*	0.0374	-0.0433	-0.0119	0.0041	-0.002	0.016	-0.0142	0.0102	-0.0507	-0.0187	0.0238
X-12092	t0	-0.0276	-0.0293	0.3850*	0.0126	-0.0033	0.0119	-0.0142	0.0152	0.0132	0.1138*	-0.0037	0.0722	-0.0119	0.049
	t24	-0.0407	-0.0417	0.1328*	0.0137	0.0217	0.0008	0.0044	0.0412	-0.0127	0.1238*	-0.0408	0.0589	0.013	0.1473*
X-12094	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0285	-0.1239*	-0.0672	0.0897	0.1196*	0.0068	-0.0328	-0.0181	-0.0036	0.0006	-0.0166	-0.0046	-0.0266	-0.0249
X-12095	t0	0.0067	-0.2390*	-0.0225	0.013	0.0182	-0.0218	0.0068	-0.0158	-0.0138	-0.0694	-0.0219	0.0211	-0.0287	0.0151
	t24	-0.0151	-0.1361*	-0.1304*	0.1074*	0.0909	0.0247	-0.0302	-0.0241	-0.0032	0.0022	0.0377	0.0271	-0.0368	-0.0125
X-12100	t0	-0.0347	-0.0392	0.0313	0.0584	-0.0125	0.0186	0.0012	-0.0897	-0.0047	0.0306	0.0755	0.091	0.0021	-0.1212*
	t24	-0.0963	-0.0083	-0.0497	0.026	0.1698*	0.0065	0.0023	-0.0389	-0.0146	-0.0103	-0.0072	0.0342	0.0075	-0.0118
X-12101	t0	0.0043	-0.0314	0.0688	-0.0273	0.0205	0.0341	0.0038	0.0004	0.0471	0.1532*	0.0772	0.0675	0.0143	-0.0613
	t24	-0.0121	-0.0496	-0.0183	0.0339	0.2604*	0.081	-0.0475	0.0064	-0.0269	-0.0261	0.1834*	0.1915*	-0.0779	0.046
X-12104	t0	-0.1193*	-0.0583	-0.003	0.0891	0.0835	-0.0566	-0.0382	0.0071	-0.0062	-0.0071	0.02	-0.0325	0.0101	0.0287
	t24	-0.0172	-0.1883*	-0.0003	0.0374	0.0512	-0.0269	-0.0389	-0.0029	-0.0062	-0.0018	-0.0168	-0.0566	-0.0608	0.0278
X-12117	t0	-0.0641	-0.018	0.0136	0.0365	-0.0097	0.2671*	-0.0099	0.0326	0.0105	0.2652*	-0.044	0.0747	0.0067	-0.016
	t24	-0.0316	-0.0077	-0.03	0.0099	0.1544*	0.0154	0.0081	0.0207	0.0353	-0.0062	-0.0921	0.0441	-0.0036	0.0211
X-12125	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0059	-0.0325	0.0017	-0.0063	0.065	0.0639	-0.034	-0.0279	-0.0297	0.022	-0.0135	0.0903	-0.0147	0.1321*
X-12199	t0	0.0065	0.1257*	-0.0227	-0.0064	-0.014	0.0097	-0.0248	-0.0106	0.0134	0.0004	-0.0199	0.0658	0.0245	-0.0051
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12206	t0	-0.042	-0.071	0.0147	-0.0054	0.0668	-0.0954	0.0304	-0.0143	0.0209	0.0101	-0.0021	-0.0196	-0.0135	0.013
	t24	0.0351	-0.1818*	-0.0095	-0.0236	0.0749	-0.0267	-0.0563	-0.0397	-0.0301	0.0004	-0.0266	-0.029	-0.0249	0.0172
X-12217	t0	-0.03	0.055	-0.0136	0.0164	-0.0244	-0.0263	0.0465	-0.0164	-0.0479	0.0025	-0.0113	-0.0205	0.1104*	-0.0159
	t24	-0.0171	0.2712*	-0.0022	-0.0097	-0.0043	-0.0038	0.0069	0.2270*	0.0196	-0.0387	-0.0243	-0.0205	0.0386	-0.0021
X-12244	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0147	0.1149*	-0.1040*	-0.0749	0.0247	0.0083	-0.0235	-0.06	-0.0766	0.0254	-0.0657	-0.0019	-0.0099	-0.0078
X-12261	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0029	-0.0372	-0.0256	-0.0015	0.0973	0.0001	0.0245	-0.0025	-0.031	-0.0568	-0.0266	-0.0068	-0.0782	0.0149
X-12405	t0	-0.0042	0.0011	-0.0209	0.1807*	-0.0083	-0.0707	-0.0117	0.0029	-0.0072	0.0237	-0.0397	-0.0186	-0.0311	-0.0205
	t24	0.0086	-0.0331	0.0001	0.0217	0.006	-0.0222	0.0169	0.2175*	0.1381*	-0.0336	-0.1031*	0.0633	0.1445*	-0.0484
X-12421	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0414	-0.0568	0.0778	0.0088	-0.0394	0.0155	-0.0097	-0.0086	0.0135	-0.0708	-0.003	-0.0298	-0.0179	-0.008
X-12422	t0	0.0172	-0.0332	0.1739*	-0.0195	-0.0198	0.0624	-0.1388*	-0.007	0.0241	0.0193	0.0252	0.0056	0.0749	-0.0731
	t24	0.0006	-0.0287	0.0313	0.0224	-0.0229	0.0012	0.0157	0.0459	0.005	-0.0654	-0.0025	-0.0316	-0.0398	0.0057
X-12428	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0202	-0.0223	-0.0238	0.0273	0.08	0.0069	0.0209	-0.0549	-0.0208	-0.0311	0.0113	0.0647	0.1342*	-0.0467
X-12440	t0	0.0286	0.0024	-0.1385*	-0.0209	0.0449	0.0129	0.0063	-0.0258	-0.0109	-0.0168	0.0228	0.1165*	0.0499	0.0086
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-12442	t0	0.0254	-0.0216	0.1078*	-0.0295	-0.0071	-0.0523	0.0999	-0.0148	-0.0287	0.0237	0.1424*	-0.0108	0.0074	-0.0036
	t24	-0.0726	-0.0739	0.0364	-0.0058	0.0705	0.0581	0.0357	-0.01	-0.0334	0.0441	-0.0102	0.0979	-0.0206	0.1450*
X-12443	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0167	0.0032	-0.0328	0.0441	-0.0181	-0.063	-0.04	-0.0307	-0.0132	0.2326*	-0.0276	-0.0447	-0.0354	0.0062
X-12450	t0	0.0101	-0.0082	0.057	-0.0132	-0.0082	-0.0458	-0.0028	-0.0059	-0.0345	-0.0018	0.0147	-0.0273	-0.0313	-0.0193
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12458	t0	-0.0537	-0.1004*	-0.0041	0.035	0.0884	0.0103	-0.0149	-0.0374	0.0014	-0.0216	-0.1112*	-0.052	-0.0017	0.0028
	t24	0.0069	0.0498	-0.1057*	-0.0066	0.0063	-0.0086	0.0264	-0.0117	0.071	0.0162	-0.0606	-0.0154	-0.2265*	-0.0284
X-12465	t0	0.0135	-0.0414	0.0206	-0.0451	0.1122*	0.0005	-0.0201	-0.01	0.0229	-0.0003	0.0357	-0.0199	0.0416	-0.0199
	t24	-0.0272	-0.0844	0.0168	-0.0035	0.0486	0.042	-0.0345	0.0676	-0.0019	0.0022	0.0249	0.0104	-0.059	0.0163
X-12510	t0	0.0378	-0.0029	0.0466	-0.0113	-0.0535	-0.0198	0.0311	0.0123	0.0002	0.0073	0.007	0.0111	0.3120*	0.3622*
	t24	0.0677	-0.0087	0.0128	0.0048	-0.0462	-0.0007	0.0281	0.0177	-0.007	0.0246	0.0025	0.0248	0.1135*	0.3452*
X-12644	t0	0.0232	0.0028	-0.0612	0.0182	0.0113	-0.0526	0.01	0.0138	0.0309	-0.0475	0.007	-0.0317	-0.0477	0.3000*
	t24	0.4403*	0.0062	0.0131	0.0125	-0.0673	-0.0369	0.0377	0.029	0.0222	-0.0512	0.0319	-0.0144	-0.0145	0.004
X-12660	t0	0.0301	-0.0086	0.2867*	-0.0034	-0.0857	0.0553	-0.073	0.0242	0.0013	-0.0009	0.2625*	-0.0135	0.0311	-0.022
	t24	-0.0012	-0.0379	-0.0076	0.0367	0.0004	0.0063	-0.0142	0.0451	0.0257	-0.0818	-0.0517	-0.0186	-0.0468	-0.0176
X-12688	t0	0.0007	-0.0439	0.0392	0.0345	-0.0248	0.0576	0.0674	-0.0417	0.0198	0.0495	0.0236	0.2334*	0.0373	-0.0095
	t24	-0.0357	-0.0201	-0.0122	0.0052	0.1042*	0.2659*	-0.0035	-0.0088	-0.0257	-0.0027	0.0035	0.1634*	-0.0066	0.1425*
X-12690	t0	-0.0532	-0.0258	-0.0183	0.0024	0.0819	-0.0342	-0.0147	-0.0013	0.2112*	0.0546	0.0152	-0.0286	0.0783	0.1900*
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12695	t0	0.0055	-0.0447	0.0045	0.0226	0.0061	-0.0643	0.3394*	0.0472	-0.0092	0.0155	0.1042*	0.1750*	0.1185*	-0.1365*
	t24	0.0094	-0.0541	-0.0081	-0.0063	0.0593	-0.0108	0.1768*	-0.0078	0.0091	0.0161	0.0155	0.4296*	0.0811	0.0035
X-12707	t0	-0.0108	-0.0443	-0.017	0.0156	0.3911*	-0.028	0.1316*	-0.0011	0.0129	-0.0336	-0.0326	-0.0054	-0.0036	-0.0447
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12742	t0	-0.0109	-0.0094	-0.0239	-0.0233	0.07	-0.0081	0.1797*	0.0021	-0.0147	0.0089	0.0318	0.0026	-0.08	-0.0334
	t24	-0.0248	-0.0477	-0.0106	-0.0186	0.1621*	0.0475	0.023	-0.0055	0	-0.0128	-0.0255	0.2292*	-0.0245	0.1448*
X-12749	t0	-0.0322	-0.0363	-0.0292	0.0585	0.0754	0.0066	-0.0433	-0.0035	-0.0073	0.0233	-0.0069	0.0083	-0.0131	-0.0352
	t24	0.002	-0.0608	-0.007	0.0137	0.0145	0.0291	-0.0699	-0.0084	-0.0161	0.1959*	0	0.0044	-0.0387	-0.0261
X-12756	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0663	0.082	-0.0216	-0.0219	0.0278	0.3286*	-0.0094	0.0043	-0.0737	-0.075	-0.0315	0.0428	-0.0204	-0.0135
X-12775	t0	0.0073	-0.011	-0.0136	-0.0345	0.0777	-0.0187	-0.021	-0.0151	-0.0397	-0.0153	0.0105	-0.0605	0.0161	-0.0507
	t24	-0.0782	-0.0658	0.0144	-0.0087	0.2129*	-0.0822	0.0682	0.0322	0.0158	-0.0057	0.0065	-0.0285	-0.0169	0.0069
X-12776	t0	-0.0817	0.0001	0.0614	0.0076	-0.0165	0.047	0.0127	-0.0041	0.0216	-0.0117	0.0338	0.0047	-0.0046	0.0104
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12792	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0017	-0.019	0.0695	-0.0373	0.0146	0.0791	-0.074	0.0272	-0.0059	-0.009	-0.0508	0.0105	-0.0196	-0.0664
X-12794	t0	-0.0182	-0.0001	0.006	-0.0091	0.0384	0.1175*	0.0254	-0.0265	-0.0278	-0.0036	-0.0288	-0.0091	-0.0104	-0.0472
	t24	-0.0216	0.0297	-0.0323	-0.0274	0.2885*	0.2044*	0.004	0.0221	-0.0371	-0.0195	-0.0589	0.0763	-0.04	0.0059
X-12802	t0	-0.0162	-0.027	0.044	-0.0411	0.1840*	0.0129	-0.0282	-0.0103	0.0157	0.0186	0.0072	0.0195	-0.0251	-0.0581
	t24	-0.0023	-0.0167	-0.0114	0.0013	0.3719*	-0.006	-0.0213	-0.0137	0.0005	-0.0068	0.0016	0.0093	-0.0346	-0.0455
X-12822	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0069	-0.074	-0.0095	0.0386	0.2760*	0.1238*	0.0155	0.0008	-0.0065	-0.0609	-0.063	0.2763*	-0.008	0.0354
X-12844	t0	-0.0392	0.0057	0.0246	-0.022	0.0408	-0.0074	0.0289	-0.0688	-0.0143	0.0795	-0.0582	-0.3398*	-0.0018	0.0284
	t24	-0.0304	-0.0525	-0.0375	0.097	0.0812	-0.0098	0.0067	0.1256*	-0.0838	-0.0029	-0.1137*	-0.1198*	-0.073	-0.0275
X-12846	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0015	-0.0465	-0.0246	0.0069	0.3564*	0.0514	0.0063	-0.0165	-0.0678	-0.0705	-0.0348	-0.0026	-0.0449	0.0367
X-12849	t0	-0.0012	0.1003*	-0.0153	-0.0656	0.0024	0.0227	0.0388	-0.0987	-0.0476	-0.0016	-0.0008	-0.0136	0.0803	-0.1542*
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12850	t0	-0.0033	0.0023	-0.0005	-0.0415	0.0698	-0.0175	0.0808	-0.0061	0.0221	-0.0418	0.4549*	0.0215	0.0046	-0.018
	t24	-0.0045	-0.0138	-0.0056	-0.0395	0.1486*	-0.002	0.0923	-0.0114	0.0359	-0.0306	0.1717*	0.3157*	0.062	0.0203

Biochemical Name	Time Point	SIRS	UCS	SS	Sshock	SNS	*S. aureus*	*S. pneumoniae*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-12851	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0134	-0.0563	-0.0585	0.0812	0.1560*	0.2091*	0.0298	-0.0142	-0.0394	-0.0415	-0.051	0.1374*	0.0249	0.0006
X-12855	t0	-0.0077	-0.1041*	0.0277	-0.0149	0.1238*	0.0053	-0.0639	0.0001	0.0024	0.0287	0.0049	-0.0001	0.0026	-0.0345
	t24	-0.0322	-0.0404	-0.0116	0.0351	0.2976*	0.0415	-0.019	0.0062	0.0017	-0.0623	-0.0129	0.1995*	-0.0181	0.0178
X-12860	t0	-0.0162	-0.025	0.2472*	-0.0491	0.1470*	-0.0089	0.0118	-0.0255	-0.0232	0.0839	0.0085	0.0456	0.008	-0.0803
	t24	-0.0231	-0.0689	0.016	-0.0244	0.1449*	0.0273	-0.0014	-0.0132	-0.0248	0.0174	-0.0178	0.4103*	-0.0058	0.0639
X-12990	t0	0.0037	-0.1061*	0.0397	-0.0236	0.0906	-0.0891	0.0506	0.0018	0.0298	-0.0189	0.0028	-0.0129	-0.0092	0.001
	t24	0.0367	-0.4071*	0.0599	-0.0165	-0.017	0.0009	0.3869*	0.1480*	0.0176	-0.0677	-0.0763	0.0035	-0.0418	0.002
X-13429	t0	-0.0232	0.2793*	-0.0265	0.014	-0.0147	-0.0228	-0.0015	0.0495	-0.0829	-0.0015	0.0172	-0.0244	-0.022	-0.0192
	t24	-0.0282	0.1904*	-0.0742	-0.0133	0.0223	0.1441*	-0.0429	-0.024	-0.0418	-0.0549	-0.0155	0.4778*	-0.0962	0.0398
X-13435	t0	-0.0191	-0.0185	0.0065	-0.0154	0.0981	0.0156	0.0554	-0.0591	-0.0047	0.016	-0.036	0.0194	-0.0095	-0.0215
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-13465	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0015	-0.1054*	-0.1098*	0.0278	0.0918	-0.004	0.0287	0.0264	-0.0257	-0.0175	-0.1346*	-0.0002	-0.1122*	-0.0221
X-13553	t0	-0.0078	-0.2546*	-0.0341	0.051	0.0748	-0.0122	0.3319*	0.0094	-0.0233	-0.0119	-0.0334	0.0257	0.0416	-0.0579
	t24	-0.0179	-0.0902	-0.0059	0.0349	0.3281*	0.0051	0.1188*	0.0039	-0.0056	-0.0033	-0.0205	0.0307	-0.0137	-0.0257
X-13727	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0322	-0.0078	-0.0358	0.0349	0.0494	0.1137*	-0.0385	-0.0181	-0.0292	0.0073	-0.0232	0.0718	-0.0286	0.1615*
X-14588	t0	-0.0307	0.0164	0.0209	-0.1195*	0.0565	-0.0043	-0.0287	0.0578	-0.0338	0.0029	-0.0635	0.0125	-0.038	-0.0239
	t24	-0.1787*	-0.3694*	0.0486	0.0615	0.1187*	0.0084	0.0626	-0.0432	-0.0104	0.0078	-0.0032	-0.0128	-0.0051	0.0039
X-14625	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0548	0.0766	-0.0052	-0.0394	-0.0399	0.0087	0.0072	-0.0629	0.0282	0.0144	-0.0166	0.1177*	0.0228	-0.0261
X-14626	t0	-0.0115	0.2666*	-0.0124	-0.0062	-0.0062	-0.0118	0.0013	0.0039	-0.0775	0.0085	0.0052	-0.0197	-0.0673	-0.0125
	t24	-0.0221	0.1958*	-0.0574	0.0186	0.0105	0.0435	-0.0236	0.0027	-0.043	-0.0236	-0.0162	0.0941	-0.0758	0.0187
X-14658	t0	-0.0058	-0.0088	-0.0074	-0.0485	0.1595*	-0.0328	0.0601	-0.0187	0.0434	-0.0236	0.3786*	0.021	-0.0076	-0.0109
	t24	-0.0161	-0.0247	0.0138	-0.0219	0.2587*	-0.0099	0.0205	-0.0144	-0.0053	-0.0019	0.0537	0.1099*	0.0063	0.0039
X-14662	t0	-0.0061	-0.0369	0.0158	0.0128	0.0221	0.0429	0.0181	-0.0131	0.0152	0.0357	0.3348*	0.1185*	0.0166	-0.0549
	t24	0.0409	-0.0236	-0.012	-0.0049	0.0053	0.0281	-0.0054	-0.013	0.1835*	0.0044	0.0288	0.4395*	0.1154*	-0.0102
X-14663	t0	-0.0096	-0.017	-0.0003	-0.0245	0.0903	0.0148	0.0389	-0.0164	0.058	-0.0006	0.4989*	0.0331	-0.0051	-0.0273
	t24	0.011	-0.0222	-0.0183	-0.0154	0.1212*	-0.0033	0.0368	-0.0216	0.1934*	-0.0116	0.3623*	0.1839*	0.0014	-0.0208

SIRS - systemic inflammatory response; UCS - uncomplicated sepsis; SS - severe sepsis; SSHock - septic shock; SNS - sepsis nonsurvivor

Table S5. Normalized factor scores of Bayesian factor analysis for poor renal function (eGFR 32-74 ml/min). Sepsis outcomes [SIRS+, uncomplicated sepsis (UCS), sepsis survivor (SS), septic shock (SS) and sepsis nonsurvivor (SNS)], etiologic agents and clinical parameters were fit to a normal distribution with mean of 0 and standard deviation of 1. Poor renal function (eGFR 32-74 mL/min) at t0 (n = 56) and t24 and t24 (n = 53). Individual metabolite factor score ≥ 0.1 or ≤ -0.1 was considered significant (designated by *).

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
glycine	t0	0.0888	-0.0248	-0.0026	-0.0471	0.0177	-0.0156	-0.0143	0.0001	0.0085	0.1350*	0.0487	-0.0088	0.0394	-0.01
	t24	0.1865*	-0.0088	-0.0283	-0.1325*	0.0212	0.0086	-0.0442	0.0386	0.1542*	0.0342	0.0286	-0.0295	-0.0209	-0.2051*
N-acetylglycine	t0	0.0088	-0.008	-0.0202	-0.0047	0.2551*	0.0004	-0.0095	0.0072	0.1056*	-0.0299	-0.0486	0.0337	0.0343	-0.0286
	t24	-0.0062	-0.0135	0.0112	-0.0293	0.0806	0.0368	0.0009	-0.0031	0.0659	0.0272	-0.0177	-0.0214	0.0337	-0.0125
serine	t0	0.3166*	-0.0082	-0.0455	-0.032	0.1351*	-0.0081	0.0096	-0.0162	0.0843	-0.0777	-0.0035	-0.0041	0.1945*	-0.0099
	t24	0.0063	-0.0148	-0.019	-0.0027	0.0579	-0.0145	-0.0006	-0.0065	-0.0091	-0.0287	-0.0036	0.0267	0.0136	0.1192*
threonine	t0	0.1060*	-0.0166	-0.1870*	0.0119	-0.0387	0.0018	-0.0026	-0.0324	0.0273	0.0217	0.3601*	0.0098	0.1933*	0.0128
	t24	0.0037	0.0041	-0.0869	-0.0077	0.0463	-0.0276	0.0105	0.009	0.0168	0.0008	0.0399	0.0006	0.0349	0.0116
N-acetylthreonine	t0	-0.0147	-0.0789	0.0341	0.0048	0.4763*	-0.0217	0.0298	-0.0474	-0.0586	-0.0119	-0.0064	-0.0095	-0.0177	-0.0073
	t24	0.0137	-0.05	0.0334	-0.0215	0.3512*	-0.0057	0.0099	-0.04	-0.0039	-0.1202*	0.0429	0.0025	-0.0108	0.1009*
betaine	t0	0.0001	-0.0105	-0.073	0.0223	-0.0062	-0.0101	-0.0336	-0.0402	0.0576	0.0088	0.0691	0.0019	0.047	-0.0214
	t24	-0.0132	0.0139	-0.0747	0.0365	-0.0117	-0.0167	-0.0169	0.0048	0.0089	0.0096	0.1481*	0.0065	0.0112	-0.03
alanine	t0	0.1098*	-0.0518	0.0403	-0.011	-0.0232	0.018	0.0156	-0.0015	-0.1721*	0.1511*	0.0071	-0.0184	0.0421	-0.0112
	t24	0.4173*	0.0367	-0.0011	-0.0693	0.0067	0.0333	-0.001	0.0215	0.0035	0.0388	-0.0051	-0.03	-0.0113	-0.3356*
aspartate	t0	0.0398	-0.0189	-0.1195*	0.0148	0.0088	-0.0378	0.0342	-0.0195	0.0013	-0.0532	-0.0013	0.005	0.0176	0.0371
	t24	0.0047	-0.0196	-0.0204	0.0093	0.0332	-0.0025	-0.0013	-0.0335	-0.0121	-0.0342	-0.0009	0.0495	0.004	0.0587
N-acetylaspartate (NAA)	t0	0.0612	-0.0403	-0.0163	-0.0178	0.2134*	0.0116	-0.0147	-0.0138	0.018	-0.1077*	-0.0627	-0.0203	0.0313	0.0387
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
asparagine	t0	0.0529	-0.0488	0.0086	-0.0281	0.0219	-0.0131	-0.0083	-0.0289	-0.0039	0.0435	0.0276	-0.0294	0.0566	-0.0086
	t24	0.0095	-0.0128	0.0018	-0.0155	0.043	-0.0126	0.0408	-0.0023	0.1571*	0.0073	0.2596*	-0.0046	0.0872	-0.1019*
glutamate	t0	0.0794	0.0052	-0.0546	0.0112	-0.0049	0.0012	0.0409	-0.0299	0.0232	-0.0331	-0.0169	0.0433	0.006	-0.0076
	t24	0.1054*	-0.0172	-0.0326	0.0305	-0.0147	0.0218	0.0297	-0.019	-0.0118	0.0093	-0.0007	0.4485*	-0.0249	0.0142
glutamine	t0	0.0732	-0.0266	-0.0759	0.0181	0.008	-0.0082	-0.0501	-0.023	0.2866*	0.0089	0.1174*	-0.0111	0.0452	0.0185
	t24	0.0111	-0.0041	-0.1048*	0.0022	0.0913	-0.0158	-0.0153	0.0207	0.0465	0.0049	0.1471*	-0.0202	0.0155	0.0359
pyroglutamine	t0	0.0416	-0.0202	0.0361	-0.0043	-0.045	0.0093	0.0248	-0.0096	-0.1541*	-0.059	-0.002	-0.0076	-0.0049	0.0038
	t24	0.0829	-0.0549	0.0019	0.008	-0.0407	0.0126	0.0251	-0.0198	-0.2006*	-0.0452	0.0163	-0.0077	-0.0083	0.0252
histidine	t0	0.065	-0.1045*	-0.0453	0.0489	-0.0013	-0.0122	0.0019	-0.1261*	0.0357	0.0091	0.3309*	0.006	0.1145*	0.027
	t24	-0.0397	-0.0031	-0.0334	0.0359	0.0456	0.0053	0.0264	-0.0051	0.011	-0.0109	0.1097*	0.0068	0.0118	0.0609
3-methylhistidine	t0	0.014	0.0108	-0.0461	0.0205	-0.0463	-0.0015	-0.0271	0.0126	-0.0107	0.0389	0.0028	-0.0107	-0.0306	0.0409
	t24	0.3946*	0.0014	-0.0241	-0.0094	-0.0103	-0.0146	-0.0149	-0.0104	0.0048	-0.0435	-0.0119	0.0035	-0.014	-0.0583
1-methylimidazoleacetate	t0	0.0096	-0.0003	-0.0185	0.0093	0.5019*	-0.0001	-0.0127	-0.0096	0.0094	-0.0392	-0.0315	-0.0241	0.0104	0.0604
	t24	-0.0047	-0.0059	0.0021	0.021	0.6370*	-0.0124	-0.0022	-0.0279	0.0014	0.0116	-0.0044	-0.023	-0.0204	0.0337
lysine	t0	0.1135*	-0.0369	-0.0342	-0.0234	0.047	-0.0308	0.0005	-0.0223	0.0023	-0.2005*	0.0497	0.0055	0.1041*	0.0422
	t24	-0.0291	-0.0013	-0.0082	0.0012	0.0775	-0.0047	-0.0018	-0.008	-0.0278	-0.0291	-0.0084	-0.0023	-0.0074	0.1736*
pipecolate	t0	0.0194	-0.0359	-0.0294	0.0176	0.0117	-0.0259	-0.0228	-0.0494	-0.0024	-0.0004	0.0607	-0.0393	0.1920*	0.0261
	t24	0.0083	-0.0331	-0.0397	0.0156	0.0134	-0.0226	-0.015	-0.0512	-0.0022	-0.011	0.0776	-0.022	0.1086*	0.0366
phenyllactate (PLA)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0161	-0.0046	-0.0069	-0.0088	0.2652*	-0.0081	0.0167	-0.0083	-0.0066	-0.0036	0.0955	-0.0725	0.3463*	0.1103*
phenylalanine	t0	-0.015	-0.0076	-0.0011	-0.0058	0.0232	-0.0044	0.003	-0.0818	-0.0043	-0.005	0.094	-0.0767	0.2515*	0.0085
	t24	-0.0541	-0.0064	0.01	0.0022	0.0385	-0.0163	0.0466	-0.0031	-0.0064	-0.0355	0.002	-0.0112	0.0038	0.0456
phenylacetate	t0	0.0145	-0.0061	-0.006	-0.0317	0.0249	-0.0077	0.0081	-0.0268	-0.0932	-0.1023*	0.0063	-0.0237	0.3154*	0.0832
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
p-cresol sulfate	t0	-0.0057	-0.0284	-0.0354	0.0371	0.0597	0.0156	0.0004	-0.0029	-0.0094	0.0016	-0.1762*	0.0199	-0.0246	0.0344
	t24	-0.0102	-0.1826*	0.0027	0.0244	0.02	0.0925	0.0033	-0.0051	0.0653	-0.0423	-0.012	-0.009	-0.0896	0.0173

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
tyrosine	t0	0.0996	-0.0251	-0.0381	-0.0019	0.0274	-0.0346	0.0053	-0.0366	-0.0014	0.0094	0.5114*	0.0058	0.0904	0.0382
	t24	0.0129	0.001	-0.0297	-0.036	0.087	-0.0108	-0.0072	-0.0035	-0.0238	-0.0051	0.0612	-0.0076	0.0083	0.0442
HPLA	t0	0.0135	-0.0196	-0.0178	-0.0215	0.1437*	-0.0176	-0.007	-0.0085	-0.0072	-0.0145	0.2975*	-0.0361	0.4786*	0.042
	t24	-0.0026	-0.0122	0.01	-0.0009	0.2523*	-0.0035	0.009	-0.0053	-0.0043	-0.0112	0.0944	-0.0101	0.0336	0.0847
3-methoxytyrosine	t0	-0.0179	-0.0115	-0.0026	-0.0009	0.1260*	-0.0092	-0.0061	-0.0017	-0.0371	-0.015	-0.0134	-0.0042	-0.0095	0.1395*
	t24	-0.0315	-0.0147	-0.0066	-0.0012	0.1097*	-0.0066	-0.0147	-0.0025	-0.0338	-0.0164	-0.0049	-0.0051	-0.0219	0.2455*
phenylacetylglutamine	t0	-0.0355	-0.0687	0.0053	0.023	0.4651*	-0.0007	-0.0042	0.0106	-0.0462	-0.0008	-0.2705*	0.0063	0.0062	0.0731
	t24	-0.0037	-0.1091*	-0.0031	-0.0137	0.2529*	0.0648	0.0037	-0.0218	0.0237	-0.0827	-0.0397	-0.0149	-0.0558	0.0444
phenol sulfate	t0	0.0095	-0.0145	0.0078	-0.0031	-0.0004	-0.0361	0.0357	-0.0083	0.0129	-0.0197	0.0269	-0.018	-0.02	0.1322*
	t24	-0.0132	-0.0888	0.0006	0.0155	0.0565	-0.0067	0.0318	0.0037	0.0311	-0.1836*	0.025	-0.0292	-0.0737	0.0155
kynurenate	t0	0.0038	-0.0294	-0.0126	0.0211	0.3460*	-0.0168	0.0592	0.0156	-0.0306	-0.0297	0.0079	0.0069	0.0867	0.0164
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
kynurenine	t0	0.0004	0.0032	0.0076	0.0072	0.0048	-0.0509	0.0474	-0.0871	0.0008	0.1079*	0.0217	0.0118	0.0445	-0.0002
	t24	-0.0441	0.0031	0.011	-0.0164	0.02	0.0037	0.0675	-0.0403	0.0005	0.0143	0.0109	-0.0231	-0.0224	0.0044
tryptophan	t0	0.1350*	0.0089	-0.0182	-0.0098	-0.0314	0.015	-0.0107	-0.0228	0.0215	0.0919	-0.0135	0.0034	-0.0408	-0.0774
	t24	0.0738	0.0657	-0.0204	-0.0561	-0.0386	0.0069	-0.0052	0.0651	-0.0199	0.0342	-0.0066	0.0028	-0.0776	-0.0234
indolelactate	t0	-0.0126	-0.0284	-0.0028	0.0356	0.0385	-0.0034	0.0285	-0.0334	-0.0185	-0.0066	-0.0255	0.0244	0.0061	0.2796*
	t24	-0.0409	-0.0605	0.0414	-0.0179	0.0735	-0.0021	0.0198	-0.0229	0.003	-0.0117	0.0038	-0.0025	-0.0211	0.0465
indoleacetate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0219	-0.1044*	-0.0096	-0.0176	0.0734	0.0588	-0.0493	-0.0466	0.0199	-0.0042	0.2079*	0.0151	-0.0517	0.0042
3-indoxyl sulfate	t0	-0.0283	-0.0493	-0.0318	0.1197*	0.0804	-0.0421	0.003	0.0322	-0.0759	-0.0048	-0.1132*	0.0363	-0.0342	0.0725
	t24	-0.0046	-0.1072*	-0.0243	0.0239	0.0648	-0.006	0.0125	-0.0235	0.076	-0.0812	-0.0253	-0.0254	-0.1435*	0.0199
indolepropionate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0299	-0.0006	-0.0388	-0.0158	0.0084	-0.0582	0.0146	0.2902*	0.0041	0.036	0.04	-0.0012	0.009	-0.0163
C-glycosyltryptophan	t0	-0.0056	-0.0377	0.0112	0.0051	0.5675*	-0.0121	-0.0154	0.0028	-0.0104	-0.0049	-0.1039*	-0.0031	-0.04	0.0848
	t24	0.0163	-0.095	0.0238	-0.0147	0.4037*	0.0001	-0.052	0.0068	0.1560*	-0.0016	-0.0038	-0.0107	-0.0679	0.0359
3-methyl-2-oxobutyrate	t0	0.0303	-0.0472	-0.0151	0.0642	-0.0055	-0.0054	0.0237	0.0011	0.03	-0.0321	-0.0014	-0.0054	0.1029*	0.011
	t24	-0.0445	0.0058	-0.0001	0.0205	0.0038	0.0202	0.2057*	-0.0093	0.0082	0.0346	-0.0092	0.0463	-0.0265	0.026
3-methyl-2-oxovalerate	t0	0.0726	-0.0439	-0.002	-0.0098	0.0007	0.0308	0.0063	-0.0349	0.0322	0.0142	-0.0247	-0.0256	0.0005	-0.0522
	t24	0.0216	-0.0064	0.0106	0.0086	-0.1040*	0.0091	0.1480*	-0.0014	0.0039	0.0346	-0.1702*	0.1411*	-0.012	-0.0424
beta-hydroxyisovalerate	t0	-0.0044	-0.0189	0.0253	-0.0039	0.0172	-0.0115	0.0263	-0.0195	-0.003	-0.0509	0.0035	-0.0087	0.7757*	-0.0032
	t24	-0.0424	0.015	0.0167	-0.0065	0.0015	0.0109	-0.0103	-0.0185	-0.0274	-0.1561*	-0.0639	0.0274	0.0135	0.0388
isoleucine	t0	0.1272*	-0.055	-0.0157	-0.0371	0.0684	0.1990*	0.003	-0.0351	0.0105	-0.0253	-0.0349	-0.0202	0.0157	-0.0296
	t24	0.0658	0.0183	0.0074	-0.021	-0.0407	0.0022	0.0133	-0.0019	0.0041	0.0178	-0.0895	0.0264	0.0239	-0.0031
leucine	t0	-0.0046	-0.0065	-0.1031*	0.0528	0.0267	0.0475	-0.0024	-0.011	0.0216	-0.0361	-0.045	0.0106	0.0293	0.0184
	t24	0.0101	0.0484	-0.0049	-0.0319	-0.0067	-0.0021	0.0157	0.0119	-0.0259	-0.0007	-0.0188	0.0051	-0.0104	0.0461
N-acetylalanine	t0	-0.0199	-0.0761	0.0262	0.0498	0.5542*	-0.0375	0.0169	0.0029	-0.0512	-0.0169	-0.0273	-0.0082	0.0302	0.0561
	t24	-0.0814	-0.0898	0.0195	0.0398	0.3995*	0.0014	0.0369	-0.0164	0.0267	-0.0608	-0.0001	-0.0079	-0.0086	0.2252*
valine	t0	0.0353	-0.0071	-0.0764	0.0437	-0.0563	0.0832	-0.0435	-0.0304	-0.0011	0.021	-0.0576	0.0099	0.0907	0.0212
	t24	0.0114	0.0428	-0.0164	-0.0168	-0.0164	-0.0012	0.0007	0.0066	-0.0077	0.0087	-0.0281	0.0013	-0.024	0.0193
4-methyl-2-oxopentanoate	t0	0.0277	-0.0178	0.0112	0.0541	-0.1047*	0.0331	-0.0047	-0.0201	0.0103	0.0254	-0.0098	0.0067	0.0024	-0.0373
	t24	-0.0238	0.0599	0.0067	0.0233	-0.1056*	0.0117	0.1010*	0.0285	-0.0019	0.0177	-0.0242	0.0147	-0.0537	-0.0228
3-hydroxy-2-ethylpropionate	t0	-0.0078	-0.0828	0.0052	0.0311	0.1491*	0.0146	0.0137	-0.0011	-0.0169	-0.0377	-0.1019*	-0.1267*	0.1389*	0.0156
	t24	-0.0053	-0.0382	0.0015	-0.0077	0.1366*	-0.016	0.0626	-0.0201	-0.0006	-0.011	0.0368	-0.0033	0.1510*	0.1144*
alpha-hydroxyisovalerate	t0	-0.0168	-0.0333	-0.0157	0.027	0.0522	-0.0083	-0.0096	-0.0276	0.0043	-0.0213	0.1780*	-0.0333	0.1404*	0.0306
	t24	0.0045	-0.0192	-0.0136	0.0038	0.0639	-0.0006	-0.0135	-0.023	0.0023	-0.0411	0.0885	-0.0473	0.3347*	0.0827
propionylcarnitine (C3)	t0	0.0241	-0.0369	-0.0008	-0.0251	0.2969*	0.0089	0.0062	-0.0222	0.0279	-0.0728	-0.0192	-0.0053	0.0208	-0.0006
	t24	-0.0032	-0.0886	0.0065	-0.0192	0.1353*	-0.0068	0.0446	-0.0486	0.0054	-0.1238*	0.0037	-0.0314	-0.0456	-0.0107
butyrylcarnitine (C4)	t0	-0.054	0.0178	0.0076	-0.0444	0.1949*	-0.0661	0.0138	-0.0126	-0.0234	-0.0059	0.0016	-0.0123	0.0175	0.0236
	t24	-0.062	0.0237	-0.0297	-0.0002	0.1021*	-0.0671	0.0026	-0.0471	-0.026	0.0574	0.0399	-0.0116	-0.0151	-0.0001

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
isobutyrylcarnitine (C4)	t0	0.0111	-0.0336	-0.0034	0.0146	0.4893*	0.0008	-0.003	-0.0059	-0.0154	-0.083	-0.0815	-0.0123	-0.0012	0.0208
	t24	0.0243	-0.0424	0.0018	-0.0078	0.2968*	0.0005	-0.0074	-0.022	-0.0017	-0.1024*	-0.0429	-0.0172	-0.0297	0.0214
2-methylbutyroylcarnitine (C5)	t0	-0.0004	-0.0278	0.0218	0.0067	0.4444*	0.0089	0.0112	-0.0142	-0.0186	-0.0573	-0.0815	-0.0079	0.0203	0.0049
	t24	-0.0647	-0.0282	0.0144	-0.0039	0.2055*	-0.0059	0.0267	-0.0104	0.0109	-0.1558*	-0.0176	-0.0116	-0.0117	0.0086
isovalerylcarnitine (C5)	t0	0.0029	-0.0476	0.0122	-0.0198	0.0685	-0.0136	0.1051*	-0.0178	-0.0247	-0.055	-0.0044	0.0126	0.0513	-0.0027
	t24	-0.0042	-0.0178	0.0118	0.0062	0.0102	-0.0234	0.0908	-0.0056	-0.0082	-0.0142	-0.0087	-0.0096	-0.0195	0.0074
hydroxyisovaleroylcarnitine (C5)	t0	0.0042	-0.0754	-0.0283	-0.0059	0.2591*	-0.029	0.0391	-0.0001	-0.0128	-0.0518	-0.0142	-0.0129	0.0375	-0.0363
	t24	-0.0208	-0.0625	0.0223	0.012	0.1123*	-0.0125	0.0596	-0.0473	0.008	-0.0377	-0.0091	-0.008	0.0222	-0.009
tiglyl carnitine (C5)	t0	0.005	-0.0342	0.0077	-0.005	0.3762*	-0.0032	0.0193	-0.0017	-0.0229	-0.0298	-0.0113	-0.0046	0.0132	-0.0126
	t24	-0.002	-0.0389	0.0061	-0.011	0.1166*	-0.0138	0.0283	-0.0328	-0.0087	-0.0666	0.0198	-0.014	-0.0309	0.0235
cysteine	t0	0.0179	-0.0238	-0.0641	0.0016	0.0432	-0.0424	0.0356	-0.043	0.0317	-0.0417	-0.0378	-0.0057	-0.0001	0.0667
	t24	-0.0193	-0.0305	-0.0161	0.0101	0.0643	-0.0074	0.0066	-0.0281	0.0198	-0.0066	-0.01	0.0143	-0.034	0.1105*
cystine	t0	0.0361	-0.0286	-0.0569	-0.018	0.0776	-0.0205	0.0242	-0.0406	0.0283	-0.1029*	0.0016	-0.0067	0.0138	0.1134*
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
methionine	t0	0.0923	-0.011	-0.0192	-0.0094	-0.0096	-0.016	0.0191	-0.0088	-0.0131	-0.0542	0.4672*	-0.0058	0.0413	0.0015
	t24	0.0135	-0.0099	-0.0231	-0.0095	0.0302	-0.0298	0.0144	-0.0071	-0.0124	-0.0502	0.2766*	0.0082	0.0078	0.0494
alpha-ketobutyrate	t0	-0.0055	-0.0331	0.0257	-0.0103	0.0261	0.0304	-0.0089	0.0142	-0.0068	-0.1299*	0.0173	-0.0881	0.2720*	-0.0076
	t24	-0.0224	-0.0235	0.034	0.0139	-0.0075	-0.0146	0.0979	-0.0264	-0.002	0.0401	-0.0204	-0.0147	0.2588*	0.0418
2-hydroxybutyrate (AHB)	t0	-0.0007	-0.0462	-0.0006	-0.0049	0.0335	-0.0016	0.0077	-0.0081	-0.0205	-0.0507	0.0375	-0.2275*	0.4143*	0.0027
	t24	-0.0013	-0.0967	0.027	-0.0104	0.0356	-0.0132	0.1689*	-0.0134	-0.0183	-0.0042	0.0216	-0.0641	0.0476	0.0317
SDMA	t0	0.0685	-0.0161	0.022	-0.0304	0.6283*	-0.0093	0.0184	0.0019	-0.0025	-0.0223	0.0085	-0.013	0.0018	0.004
	t24	0.007	-0.0207	-0.0038	0.0045	0.3515*	-0.0097	0.0061	0.0185	-0.0075	-0.0071	0.0786	0.0043	-0.0288	0.0604
arginine	t0	0.2971*	-0.0026	-0.0043	0.0225	-0.0928	0.0343	0.0217	-0.0271	0.0254	-0.0186	0.2545*	-0.0227	0.0329	0.0614
	t24	0.1819*	0.0042	-0.0379	-0.0401	-0.0013	-0.0266	-0.0211	0.0369	0.0081	0.0112	0.1703*	-0.0204	-0.0041	-0.0031
ornithine	t0	0.0001	-0.0075	-0.0403	0.0112	0.1106*	-0.0599	0.0007	-0.0564	0.0305	-0.1068*	0.0255	0.0251	0.0335	0.0908
	t24	-0.0153	-0.0082	-0.0154	0.005	0.0804	-0.0107	-0.0013	-0.005	-0.0277	-0.0149	-0.007	0.0204	0.0026	0.1811*
urea	t0	0.0142	-0.1340*	0.0046	-0.0157	0.3791*	-0.0232	0.0232	-0.0051	-0.1134*	-0.0619	-0.018	-0.0223	0.0008	0.0188
	t24	0.0251	-0.3186*	-0.0168	-0.0406	0.1392*	-0.0095	0.0055	-0.013	0.0008	-0.0063	0.009	-0.019	-0.0748	0.031
proline	t0	0.0346	-0.0036	-0.1079*	-0.0013	0.0396	-0.0122	-0.0383	-0.054	0.021	0.0206	0.1724*	-0.0505	0.3312*	0.0849
	t24	0.0075	-0.008	-0.0734	-0.0206	0.1197*	-0.0187	-0.0239	-0.0095	0.0037	-0.0237	0.0263	0.0088	0.031	0.069
citrulline	t0	0.1176*	0.0125	-0.0744	-0.0014	-0.0827	0.0089	-0.0424	-0.0177	0.0196	0.1136*	0.0419	0.0124	0.0006	0.2876*
	t24	0.1070*	0.0231	-0.0598	-0.0117	-0.0433	0.0071	-0.0247	0.0008	0.0084	0.0191	0.01	0.0278	-0.0101	0.1271*
N-acetylornithine	t0	-0.0014	0.029	0.0113	-0.0495	0.0085	0.0349	-0.0033	-0.0203	-0.1192*	0.2535*	-0.0019	0.0157	0.0116	-0.0255
	t24	0.0109	0.0032	-0.015	-0.0071	-0.003	-0.0007	-0.0488	-0.0163	-0.0587	0.0811	-0.0285	-0.0265	-0.0333	-0.0218
hydroxyproline	t0	0.0007	-0.0295	-0.016	-0.0041	0.1770*	-0.0147	-0.0082	-0.0107	0.0139	-0.0004	0.0313	0.0068	0.0413	0.3116*
	t24	0.0327	-0.0008	-0.0274	-0.0227	0.3682*	-0.001	-0.0266	-0.005	0.0276	-0.0239	0.1220*	-0.0048	0.0098	0.0824
homocitrulline	t0	0.0262	-0.2105*	0.0063	-0.0391	0.0306	-0.0715	-0.0238	0.1015*	-0.0191	-0.1377*	-0.0078	-0.0457	-0.0206	0.0224
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
stachydrine	t0	0.031	-0.012	-0.0092	-0.024	0.0188	-0.0451	-0.0038	-0.057	-0.029	-0.042	0.0913	0.0372	-0.0245	-0.0279
	t24	0.0225	-0.023	0.0038	-0.0506	0.0075	-0.0106	-0.0027	-0.0781	0.042	-0.0215	0.0267	-0.0154	-0.0598	-0.0254
homostachydrine	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0089	0.0237	0.049	-0.014	-0.1046*	0.0182	-0.0048	-0.017	-0.009	0.0413	0.0093	-0.0229	-0.0348	-0.0069
creatine	t0	-0.0239	-0.0431	0.0852	-0.0199	0.4685*	0.0069	0.0068	-0.0098	0.0987	-0.0499	-0.0832	-0.0241	0.052	-0.0206
	t24	-0.0088	-0.1013*	0.0952	-0.0384	0.2703*	0.0181	-0.0045	-0.0051	0.1957*	-0.0173	0.0163	-0.0188	-0.0106	-0.0595
creatinine	t0	-0.0059	0.0302	-0.0123	0.0088	-0.0061	0.0059	0.0149	-0.0011	-0.0518	-0.0484	0.0073	0.1574*	-0.0621	0.0169
	t24	0.0474	-0.013	0.0048	0.0015	-0.0219	-0.0111	-0.0044	0.0025	0.0179	-0.0253	0.0362	-0.0198	-0.065	0.004
2-aminobutyrate	t0	0.0584	-0.0131	0.0245	-0.0305	-0.0176	0.011	-0.0332	-0.0068	-0.0062	0.0284	0.015	-0.0521	0.2452*	-0.0943
	t24	0.1331*	-0.0176	0.0366	-0.0179	-0.0777	-0.0176	0.0112	-0.0047	0.0255	0.1276*	-0.0119	-0.0192	0.1575*	-0.1066*
5-methylthioadenosine (MTA)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.001	-0.0123	-0.0107	0.0109	0.0362	-0.0103	0.4318*	-0.0435	0.0011	-0.0414	0.2197*	-0.0598	-0.1266*	-0.0007

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
4-acetamidobutanoate	t0	-0.0071	-0.0414	-0.003	0.073	0.5362*	-0.0241	0.0225	-0.0052	0.0025	0.0033	-0.0166	-0.0017	0.001	0.082
	t24	-0.0208	-0.0302	0.0136	0.0227	0.5559*	0.0029	0.0141	-0.0086	0.0132	-0.0264	-0.0003	-0.0011	0.0023	0.057
5-oxoproline	t0	-0.0191	0.01	-0.0134	0.0154	0.016	-0.0038	0.0689	-0.0417	0.0251	-0.0164	-0.0023	-0.081	0.0329	0.0004
	t24	-0.011	0.0195	-0.0265	-0.1396*	0.0588	0.0111	-0.1139*	-0.0019	0.0319	0.0372	0.0229	-0.0123	-0.0189	-0.0145
prolylhydroxyproline	t0	0.011	-0.011	-0.0063	-0.0066	0.5816*	0.0181	-0.0583	-0.0313	0.0002	0.0198	-0.0371	0.0108	0.0018	-0.0051
	t24	-0.0006	-0.0073	0.0465	-0.0385	0.6064*	0.0244	-0.1650*	0.0085	-0.012	-0.0044	0.0076	-0.0183	-0.0205	0.0024
glutamylvaline	t0	-0.0102	-0.0441	-0.0182	0.0191	0.1409*	-0.0182	-0.0152	-0.0804	-0.0012	0.0238	-0.0155	0.0031	0.032	0.0062
	t24	0.0113	-0.0038	-0.0649	-0.0058	0.1359*	-0.0235	-0.0231	0.0008	0.0028	-0.0351	0.0111	-0.0018	-0.0425	0.0343
gamma-glutamylleucine	t0	-0.0102	-0.0075	-0.0468	0.03	0.0115	-0.0025	-0.0168	-0.0636	0.0384	0.0145	-0.0373	-0.0086	0.0316	0.0237
	t24	-0.0052	0.0124	-0.0496	-0.0221	0.0516	-0.0191	-0.0138	-0.0109	-0.0048	0.0004	-0.0156	0.0034	-0.0236	0.0602
gamma-glutamylisoleucine	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0221	0.0135	-0.1031*	-0.0514	0.0492	-0.0502	-0.0276	-0.0264	0.0189	-0.0266	-0.027	0.0335	-0.0042	0.034
gamma-glutamylglutamine	t0	0.0192	-0.0575	-0.0051	0.0814	-0.0213	-0.0294	-0.0146	-0.0175	0.2281*	0.1545*	0.0059	-0.066	0.1569*	0.0036
	t24	0.0159	0.0391	-0.0927	-0.0208	-0.0063	-0.1325*	-0.0706	0.0434	0.0114	0.0534	0.0714	-0.0323	0.0387	0.0251
gamma-glutamylphenylalanine	t0	-0.0278	0.002	-0.0233	-0.0279	0.1165*	-0.0269	0.0079	-0.0752	0.0024	0.0002	0.0312	-0.0419	0.2631*	0.0145
	t24	-0.023	0.0019	-0.0197	0.0114	0.1185*	-0.0215	0.0078	-0.0156	0.0094	-0.0178	0.0009	-0.0101	-0.0063	0.1356*
gamma-glutamyltyrosine	t0	0.0255	-0.0128	-0.0501	0.0011	0.029	-0.0727	0.0088	-0.0482	0.0119	0.0087	0.4958*	-0.0031	0.1385*	0.0612
	t24	0.0032	-0.0115	-0.053	-0.0107	0.2191*	-0.0117	-0.0138	-0.0131	-0.0115	-0.0008	0.0502	0.0114	0.0029	0.0559
N-acetylglucosamine 6-sulfate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0126	-0.0387	-0.002	-0.0056	0.1834*	-0.0231	0.0168	-0.0802	0.0372	-0.012	-0.0478	0.0045	-0.1636*	0.0202
erythronate	t0	-0.0181	-0.0763	0.0211	0.0516	0.5252*	-0.0356	0.0445	-0.0076	-0.0865	-0.0103	-0.0171	0.0346	-0.0044	0.0099
	t24	0.0109	-0.0861	0.0069	0.01	0.4466*	-0.0183	0.0068	-0.0152	0.0073	-0.0548	0.0619	-0.0063	-0.0104	0.0101
N-acetylneuraminate	t0	-0.0147	-0.0103	-0.0044	-0.0079	0.1291*	-0.0085	-0.004	0.0018	-0.034	-0.0298	-0.022	0.0017	-0.0035	0.1126*
	t24	-0.0277	-0.0077	0.0004	-0.006	0.0709	-0.0042	-0.0015	-0.0034	-0.031	-0.0238	-0.0092	-0.0028	-0.0057	0.1856*
erythrose	t0	0.2576*	-0.067	-0.0484	0.1165*	-0.0442	0.0337	-0.0326	-0.0346	-0.0103	-0.022	-0.0054	-0.054	0.0267	0.028
	t24	-0.0026	0.0141	-0.0181	0.0471	-0.0162	-0.0156	0.0262	-0.0046	-0.0289	0.0106	0.0193	-0.0297	0.029	0.01
fructose	t0	0.0111	-0.0312	-0.0469	0.1136*	-0.0511	0.0016	-0.1505*	-0.0814	-0.0059	0.0142	-0.0165	-0.0314	-0.043	-0.0151
	t24	0.0294	0.0124	0.0088	-0.0037	-0.1572*	0.031	-0.1032*	-0.0177	0.0016	-0.0812	0.0061	-0.0127	0.0112	-0.0291
maltose	t0	-0.0127	-0.0156	-0.0625	0.0396	0.0401	-0.0108	-0.0264	0.0686	-0.0325	-0.0081	-0.0516	-0.0228	-0.057	0.0289
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
mannitol	t0	-0.0082	-0.012	-0.0015	-0.0019	0.076	-0.0107	-0.0121	-0.0074	-0.0262	-0.0174	0.005	-0.0059	0.0744	0.4211*
	t24	-0.0443	-0.0246	0.0234	-0.015	0.2776*	0.0325	-0.0343	-0.0139	-0.1043*	-0.0737	0.044	-0.0001	-0.0012	0.0806
mannose	t0	-0.0342	-0.046	0.0559	0.0511	-0.0498	0.1521*	-0.0585	-0.0139	-0.0815	-0.0291	-0.041	-0.0369	-0.0105	-0.0108
	t24	-0.0067	-0.0421	0.2164*	0.2188*	-0.0398	0.0261	0.0198	-0.0001	0.0053	0.0292	-0.0459	-0.0919	-0.0023	0.0114
sucrose	t0	-0.0113	0.0064	-0.0027	-0.0049	0.3848*	0.0188	-0.0159	-0.0115	-0.0113	-0.0202	-0.0584	-0.0022	-0.0071	0.0096
	t24	0.0131	-0.0015	-0.0146	-0.0051	0.3196*	0.0226	-0.0263	-0.0358	0.0161	-0.0015	-0.026	-0.0101	-0.0217	0.0571
1,5-anhydroglucitol (1,5-AG)	t0	0.0213	0.2563*	-0.0065	-0.0433	-0.09	-0.2332*	0.0251	-0.0139	-0.0392	0.016	-0.0223	0.01	0.02	0.0121
	t24	0.0346	0.4149*	0.0015	0.0033	-0.1379*	-0.2901*	0.0062	-0.0015	-0.0349	0.0159	-0.0161	-0.0077	0.0147	0.0229
glycerate	t0	0.0443	-0.056	-0.0222	-0.0142	0.1650*	-0.0214	-0.0233	0.0041	-0.0508	0.0328	-0.0228	-0.0141	-0.0209	-0.0331
	t24	0.0539	-0.0536	-0.0385	-0.0099	0.071	-0.027	-0.0445	-0.0016	-0.0236	0.0188	0.053	-0.0244	-0.0362	-0.0324
glucose	t0	0.005	-0.0311	0.009	0.1354*	-0.0084	0.0332	-0.0904	-0.0195	-0.0964	-0.0065	-0.0091	-0.0355	0.0068	-0.0114
	t24	0.028	-0.0644	-0.0204	0.1137*	-0.0263	-0.0055	0.0286	-0.0078	0.0285	-0.0654	-0.0138	-0.1200*	0.0253	0.0086
1,6-anhydroglucose	t0	0.0349	0.005	-0.0495	-0.0355	0.078	0.0202	-0.0077	-0.0543	-0.0212	0.0527	0.0069	0.0223	-0.017	0.0372
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
dihydroxyacetone	t0	0.0536	-0.0647	0.0095	0.0467	-0.1229*	0.0877	-0.0644	-0.0068	-0.0236	-0.0336	0.0664	-0.0358	0.0461	0.0072
	t24	0.0122	0.0041	-0.0056	0.0633	-0.0558	0.0301	-0.0175	-0.037	-0.0276	0.0226	-0.0197	-0.0109	0.0339	0.0127
pyruvate	t0	-0.1595*	-0.0592	0.0115	0.0341	0.0583	-0.0393	0.0236	-0.028	-0.0154	0.0165	0.3380*	-0.0481	0.0639	0.0275
	t24	-0.0008	-0.0248	-0.0061	-0.0011	0.3591*	-0.007	-0.0055	-0.0216	0.0016	-0.0127	-0.0136	-0.0286	0.0278	-0.0278
lactate	t0	-0.0186	-0.1254*	0.0003	0.0318	0.3454*	-0.0191	0.0632	-0.0241	-0.0701	-0.0163	0.0554	-0.0925	0.1426*	0.0314
	t24	-0.0014	-0.0239	-0.0019	-0.0039	0.2406*	0.0129	0.0051	-0.0284	-0.0179	-0.0098	-0.0007	-0.0137	0.0113	0.0231

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
glucuronate	t0	-0.0294	-0.087	0.0479	0.0109	0.1072*	0.0507	0.0022	-0.0625	-0.0538	-0.0025	0.0918	0.0022	-0.0345	0.0919
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
arabitol	t0	0.0268	-0.0637	-0.0105	0.0257	0.4779*	0.0021	0.0106	-0.0221	-0.0408	-0.0177	0.0004	0.1146*	-0.0292	0.0618
	t24	0.0528	-0.1020*	0.0042	-0.0115	0.4375*	0.0047	0.0014	-0.0153	0.0195	-0.0254	0.0489	0.0029	-0.0433	0.0061
threitol	t0	0.006	-0.1353*	-0.0126	0.0039	0.1640*	0.0184	-0.0389	-0.015	-0.0332	-0.0473	-0.0118	-0.0077	-0.0547	0.0996
	t24	0.065	-0.0504	-0.0182	-0.0034	0.3093*	-0.0023	-0.0478	-0.0201	0.0417	-0.0385	0.0107	0.0057	-0.0233	-0.0055
gluconate	t0	-0.005	-0.0663	-0.0123	0.0594	0.0222	0.0007	-0.0359	-0.0118	-0.0769	-0.04	-0.0367	-0.0136	-0.0519	0.0644
	t24	-0.0001	0.0008	-0.0132	0.3263*	-0.0117	-0.0054	0.0902	-0.0053	0.0137	-0.0103	0.0044	-0.0941	-0.0214	0.0054
arabinose	t0	-0.0171	-0.0687	0.0015	0.0239	0.0909	-0.0131	-0.036	-0.0087	0.0002	-0.0596	-0.0235	-0.0108	-0.03	0.1417*
	t24	0.0149	-0.2086*	0.0034	-0.007	0.0555	0.0206	-0.0435	-0.0134	-0.0058	-0.0068	0.003	-0.0129	-0.0138	0.1120*
xylose	t0	0.0142	-0.047	-0.0021	0.0265	0.0042	-0.0059	-0.0295	-0.0131	0.024	-0.0196	-0.0309	-0.0119	-0.0253	0.0239
	t24	0.0261	0.0049	-0.0362	-0.0894	0.013	-0.0188	-0.0395	-0.0168	0.0879	-0.0053	-0.0117	-0.0101	-0.0295	-0.0229
xylonate	t0	0.0038	-0.0755	0.0083	0.0187	0.5422*	-0.0102	0.0121	-0.0113	-0.0986	-0.0315	-0.0128	0.0105	-0.0295	0.1137*
	t24	0.0566	-0.0391	-0.0077	-0.015	0.4066*	0.0095	-0.011	-0.0274	-0.0077	-0.0077	0.0175	-0.0056	-0.0189	0.0742
citrate	t0	0.0396	-0.0555	-0.0504	-0.0083	0.0824	-0.066	-0.0222	-0.0065	0.0536	-0.0076	0.3900*	-0.0033	-0.0222	-0.0149
	t24	0.2088*	-0.0167	-0.07	-0.0364	0.0397	-0.0137	-0.0077	0.0099	0.0571	-0.0223	0.4830*	-0.0016	0.0003	-0.0017
alpha-ketoglutarate	t0	-0.0182	-0.0608	0.0082	0.0044	0.1381*	0.0063	0.01	-0.006	0.0538	-0.0329	0.4050*	-0.0144	-0.0476	-0.0425
	t24	-0.0087	-0.0604	0.006	-0.0055	0.045	0.0236	-0.0084	-0.0032	0.0556	-0.0469	0.3938*	-0.005	-0.0203	-0.0095
malate	t0	0.017	-0.0727	-0.004	-0.0069	0.3340*	-0.0144	0.0202	-0.037	0.0585	-0.1625*	0.0194	-0.0334	-0.0082	0.0078
	t24	0.0587	-0.1034*	-0.0494	-0.0062	0.1841*	-0.0166	0.0123	-0.0305	0.02	-0.1093*	0.0515	-0.032	-0.0138	0.02
oxaloacetate	t0	-0.0775	-0.082	0.005	0.1047*	0.2628*	-0.0294	-0.0004	-0.0428	-0.0466	0.0053	0.0338	-0.0389	-0.002	0.016
	t24	-0.0515	-0.0557	-0.0049	0.0165	0.0442	-0.0093	-0.0071	-0.0441	-0.0039	0.0041	-0.0003	-0.0434	0.0173	-0.0017
phosphate	t0	0.1041*	-0.1679*	0.0048	-0.1020*	0.0802	-0.0064	-0.0007	-0.066	0.0139	0.0107	-0.001	-0.0179	-0.0056	0.0593
	t24	-0.0007	-0.2028*	-0.0003	-0.0158	0.1289*	0.0133	0.0147	-0.0116	0.0415	-0.0132	0.0334	-0.0035	-0.1911*	0.0177
linolenate (18:3n3 or 3n6)	t0	0.0077	-0.0121	-0.0153	-0.0101	0.0215	-0.0277	0.0401	0.4568*	-0.0047	0.0026	0.0219	-0.0043	0.0274	-0.0076
	t24	0.0456	-0.0239	0.014	-0.0156	-0.001	-0.0658	0.0161	-0.0071	0.0071	0.0189	0.1258*	-0.0261	0.0316	0.2086*
dihomolinolenate (20:3n3 or 3n6)	t0	0.0266	0.0066	-0.0477	-0.0083	0.0065	-0.0358	-0.0143	0.4510*	-0.0558	0.0284	0.0105	-0.0047	0.0266	-0.0164
	t24	0.0357	-0.0042	0.0429	-0.0196	-0.0334	-0.0697	-0.1008*	0.0033	-0.0015	0.0312	0.1476*	-0.0152	0.0455	0.1719*
eicosapentaenoate (EPA; 20:5n3)	t0	-0.0045	0.0034	-0.0135	-0.0051	0.0659	-0.0381	-0.0126	0.0613	-0.0973	-0.006	-0.0037	-0.0116	-0.0031	0.0459
	t24	0.0002	-0.0067	0.0166	-0.0118	0.0313	-0.0301	-0.0347	0.0112	-0.0621	-0.0071	0.0124	-0.0157	0.0012	0.1672*
docosapentaenoate (DPA; 22:5n3)	t0	0.0268	-0.0689	-0.0151	-0.0141	0.082	-0.0365	-0.0097	0.2894*	-0.0195	-0.0378	0.0097	-0.0236	0.0187	0.0115
	t24	0.0033	-0.0229	0.0128	-0.0383	0.0394	-0.0468	-0.0066	0.0175	-0.0123	0.0009	0.0369	-0.0461	0.0401	0.2174*
docosahexaenoate (DHA; 22:6n3)	t0	0.0498	-0.0306	-0.0116	-0.0539	0.0415	-0.1008*	-0.03	0.2367*	-0.0518	-0.0055	0.0317	-0.0442	0.0181	-0.0224
	t24	0.0374	-0.0193	0.0406	-0.1006*	-0.0211	-0.0652	-0.0454	0.0575	-0.0333	-0.0113	0.0138	-0.0532	0.0448	0.0419
isovalerate (C5)	t0	0.0745	-0.0168	0.0152	-0.0565	0.0001	-0.0168	0.0012	-0.0003	-0.0217	0.024	-0.0178	0.0173	0.1200*	0.0028
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
caproate (6:0)	t0	-0.0046	0.1047*	0.0117	-0.0422	-0.0151	0.02	0.0038	0.1590*	-0.036	0.1252*	-0.0125	-0.0144	-0.039	-0.0034
	t24	-0.0167	0.0373	0.0078	-0.0099	-0.0206	0.4943*	-0.0073	0.0037	0.0113	0.0671	-0.0109	0.0065	-0.0229	-0.0322
heptanoate (7:0)	t0	-0.0063	0.0767	0.0145	-0.0565	-0.0022	0.0019	-0.0082	0.0273	-0.1719*	0.2289*	-0.0236	-0.0131	-0.065	-0.0112
	t24	-0.0204	0.1010*	0.0058	-0.0163	-0.0605	0.3379*	-0.0138	-0.01	-0.0017	0.0568	-0.0027	0.0113	-0.0393	-0.0305
caprylate (8:0)	t0	-0.0277	-0.012	-0.0035	-0.0052	0.1019*	-0.0112	-0.0101	-0.0052	-0.0357	-0.0174	-0.0089	-0.002	-0.0078	0.1415*
	t24	-0.0597	0.0582	-0.0061	-0.007	0.0145	0.073	-0.022	-0.007	-0.0018	0.0267	0.0369	-0.004	-0.0683	-0.0033
pelargonate (9:0)	t0	0.0104	0.0308	0.03	-0.0341	-0.0233	-0.0281	0.0071	0.1105*	-0.1845*	0.2035*	-0.0238	0.0072	-0.0258	-0.0938
	t24	0.0008	0.2203*	0.0579	-0.0253	-0.0697	0.2505*	0.0068	0.0059	0.0011	0.0928	0.0106	0.0172	-0.0262	-0.0234
caprate (10:0)	t0	-0.0314	-0.0181	-0.0037	-0.0282	0.4455*	-0.0104	0.0001	0.0418	-0.0696	0.1191*	0.003	0.0055	0.022	0.0119
	t24	-0.0315	0.0214	0.0051	-0.0198	0.0514	0.0116	-0.0137	0.0061	-0.0004	0.0702	0.1796*	-0.0153	-0.0193	0.0251
laurate (12:0)	t0	-0.0515	0.0369	0.0057	-0.0297	0.0527	-0.0344	0.0387	0.055	-0.0227	0.0597	0.0393	-0.0038	0.0667	0.0054
	t24	-0.0099	0.0095	0.0053	-0.0042	0.0028	-0.0286	0.0238	0.0104	0.0238	0.1524*	0.2282*	-0.019	0.0383	0.0379
5-dodecenoate (12:1n7)	t0	-0.048	0.0104	0.0041	-0.0237	0.0907	-0.0247	0.0106	0.0369	0.0108	0.1831*	0.2068*	0.0246	0.0047	-0.0387
	t24	-0.0061	0.0018	0.0148	-0.0117	0.0022	0.0024	0.0431	-0.0136	-0.0085	0.0277	0.4138*	-0.0007	-0.0083	-0.0203

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
myristate (14:0)	t0	-0.0405	-0.0205	0.0204	-0.0056	0.1001*	-0.067	0.1083*	0.1072*	-0.0185	-0.0041	0.0425	-0.0235	0.0607	0.0087
	t24	-0.0023	-0.0394	0.0339	-0.0108	0.0069	-0.0434	0.0575	-0.0113	0.0072	0.0306	0.2955*	-0.0274	0.045	0.1475*
myristoleate (14:1n5)	t0	-0.0158	-0.0109	0.0189	-0.0113	0.0206	-0.0758	0.0546	0.0134	0.0152	0.1073*	0.2939*	0.0327	0.0551	0.0021
	t24	-0.0027	-0.0475	0.0028	-0.0006	0.024	-0.0594	0.0208	-0.0149	0.0336	0.069	0.4565*	0.0034	0.0268	0.0721
palmitate (16:0)	t0	-0.038	-0.0198	-0.0051	0.0119	0.1580*	-0.1628*	0.0336	0.2080*	0.0018	-0.0328	0.0096	-0.0096	0.0454	-0.0214
	t24	-0.0038	-0.0263	0.0155	-0.0016	0.0083	-0.0943	0.0359	-0.011	0.0081	0.0085	0.1159*	-0.015	0.0123	0.1148*
palmitoleate (16:1n7)	t0	-0.0231	-0.0232	-0.0002	0.0102	0.0454	-0.1051*	0.0071	0.0277	0.0194	0.051	0.1240*	0.0033	0.0126	-0.0157
	t24	-0.0046	-0.0294	0.0082	0.0067	0.0387	-0.067	0.0145	-0.0243	0.0221	0.0602	0.4279*	-0.0148	-0.0056	0.0583
margarate (17:0)	t0	-0.005	-0.0085	-0.0331	0.0018	0.0714	-0.0326	0.0101	0.4080*	-0.0163	-0.0922	-0.0163	-0.0185	0.0506	0.0035
	t24	0.0016	-0.035	0.0426	0.0008	0.0013	-0.0085	0.0362	-0.0268	-0.0015	-0.0262	0.0376	-0.014	0.0187	0.3400*
10-heptadecenoate (17:1n7)	t0	-0.0136	-0.0538	-0.0114	0.0146	0.1454*	-0.1182*	0.0048	0.2887*	-0.0205	0.0015	0.0335	-0.001	0.043	-0.0146
	t24	0.0001	-0.0319	0.0094	-0.0007	0.0161	-0.0371	0.0257	-0.0162	-0.0014	0.0253	0.2913*	-0.0203	0.0043	0.2596*
stearate (18:0)	t0	-0.0115	0.0014	-0.0348	0.0019	0.0436	-0.0492	-0.0016	0.2551*	0.0042	-0.1065*	-0.0168	-0.0024	0.0731	-0.0153
	t24	0.0012	-0.0192	0.0089	-0.0062	0.0122	-0.0274	0.016	-0.0005	0.0103	-0.0375	0.0702	-0.0128	0.0124	0.1822*
oleate (18:1n9)	t0	-0.0145	-0.0284	-0.0204	0.0142	0.1441*	-0.0408	-0.0012	0.1126*	0.0071	-0.0264	0.0318	-0.055	0.1841*	-0.0031
	t24	-0.023	-0.0244	-0.0032	0.0006	0.0469	-0.0231	0.0202	-0.0291	0.0017	0.0484	0.2783*	-0.0022	0.0271	0.0817
vaccenate (18:1n7)	t0	0.0138	-0.0018	0.0193	0.0304	-0.0641	-0.0402	-0.0143	0.0141	0.0273	0.0519	-0.0549	-0.0357	-0.0265	-0.0632
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
linoleate (18:2n6)	t0	0.0029	-0.0226	-0.0222	-0.012	0.0708	-0.0647	0.0036	0.3949*	0.0009	-0.0146	0.0035	-0.0074	0.0666	-0.0061
	t24	0.0138	-0.0179	0.0132	-0.0151	0.0097	-0.0678	0.0049	-0.0112	0.0094	0.0504	0.1150*	-0.0364	0.0378	0.1318*
stearidonate (18:4n3)	t0	-0.0142	0	-0.0163	-0.0074	0.1269*	-0.0148	-0.0151	0.0156	-0.0259	-0.001	0.0044	-0.0038	-0.0079	0.0776
	t24	-0.002	-0.0175	-0.0259	-0.0332	0.1207*	-0.0156	-0.0102	-0.0136	0.0082	0.0067	0.0645	-0.0147	-0.0178	0.1472*
nonadecanoate (19:0)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0352	-0.0314	-0.0633	-0.0077	0.0326	0.0147	0.0163	-0.0169	-0.0357	-0.0033	0.0481	0.0234	0.0733	0.2685*
10-nonadecenoate (19:1n9)	t0	0.0146	-0.0118	-0.0233	-0.013	0.2477*	-0.1305*	-0.0567	0.2150*	0.0061	-0.0017	0.0149	-0.0167	0.0073	0.0063
	t24	-0.0073	-0.0289	0.01	-0.0135	0.0135	-0.0467	0.0004	-0.0201	0.015	0.0039	0.2177*	-0.021	0.0228	0.2535*
eicosenoate (20:1n9 or 1n11)	t0	0.0007	-0.0054	-0.0294	-0.0231	0.1649*	-0.0539	-0.011	0.3267*	-0.0066	-0.0079	0.0273	-0.07	0.2674*	0.0065
	t24	0.0121	-0.0343	0.0131	-0.0093	0.0207	-0.0263	-0.0271	-0.0148	-0.0021	0.0172	0.1902*	-0.0172	0.0819	0.1762*
dihomolinoleate (20:2n6)	t0	0.0377	-0.0229	-0.0375	-0.0238	0.0334	-0.0506	-0.0189	0.4396*	-0.004	-0.019	0.0206	-0.0437	0.2199*	-0.0022
	t24	0.0185	-0.0303	0.0177	-0.0166	0.0053	-0.0435	-0.0264	-0.0012	0.0186	0.0076	0.2558*	-0.0501	0.0726	0.1240*
arachidonate (20:4n6)	t0	0.0671	-0.0138	-0.0221	0.0024	-0.0179	-0.0146	-0.0248	0.4311*	-0.0224	-0.0009	-0.0027	-0.0212	0.0187	-0.0331
	t24	0.0637	-0.0032	0.0763	-0.0542	-0.0804	-0.0368	-0.1226*	0.0289	0.0198	-0.028	0.043	-0.0065	-0.0007	0.0071
adrenate (22:4n6)	t0	0.016	-0.0449	-0.0179	-0.0108	0.0565	-0.0239	-0.0299	0.3538*	-0.0063	-0.0738	0.0165	-0.0416	0.1101*	-0.0289
	t24	0.029	-0.0241	0.0064	-0.0225	0.0091	-0.0247	-0.041	-0.0011	0.0177	0.0013	0.1396*	-0.0421	0.1405*	0.0734
3-hydroxydecanoate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.001	-0.0158	-0.0117	-0.0122	0.2399*	-0.0345	0.0388	-0.0124	-0.0242	-0.0206	0.2685*	-0.0002	0.0269	0.0208
2-hydroxystearate	t0	0.0051	0.1206*	-0.0078	-0.0293	-0.0044	-0.0735	0.025	0.0861	-0.1625*	0.0221	0.0361	0.0165	-0.0252	-0.0177
	t24	0.0555	0.0142	0.0182	-0.0531	-0.0191	-0.0649	-0.015	0.0177	-0.003	-0.1428*	0.1627*	0.0007	-0.0083	0.0279
2-hydroxypalmitate	t0	-0.0078	-0.0089	0.0068	-0.0212	0.1387*	-0.0888	0.0534	0.0196	-0.1057*	-0.0221	0.0691	-0.0241	-0.0175	-0.0081
	t24	0.0104	-0.0033	0.0093	-0.0295	-0.0023	-0.045	-0.0335	-0.0024	-0.0279	-0.3026*	0.2533*	-0.0136	-0.0113	0.0914
hexadecanedioate (C16)	t0	-0.028	0.003	-0.0101	-0.0189	0.1843*	-0.0271	0.0136	-0.0036	0.0501	0.0094	0.4954*	-0.0217	0.0094	-0.0076
	t24	-0.0178	0.0012	-0.021	-0.0007	0.2706*	-0.0164	0.0117	-0.0135	-0.0085	-0.023	0.5520*	-0.0045	0.0238	0.0164
octadecanedioate (C18)	t0	0.0071	-0.0058	-0.0028	-0.0344	0.2007*	-0.0074	0.0301	-0.0059	0.0379	-0.0398	0.5036*	-0.0334	0.0926	-0.0279
	t24	-0.005	-0.0011	-0.016	-0.0013	0.1263*	-0.0287	0.001	-0.0062	-0.0131	-0.0311	0.4906*	-0.0093	0.0257	0.0032
CMPF	t0	-0.002	-0.004	0.0114	-0.0001	0.0044	-0.0771	0.009	0.0418	-0.0586	0.0178	-0.0291	-0.0342	-0.0341	-0.0056
	t24	0.0283	-0.0187	0.0131	-0.0167	-0.0119	-0.0401	-0.0048	0.0184	-0.0458	0.0554	-0.013	-0.0201	-0.044	-0.0066
deoxycarnitine	t0	0.0005	-0.0521	0.0462	-0.1591*	0.1159*	0.0056	0.0753	-0.0318	-0.0933	-0.0333	-0.0064	-0.015	0.0661	0.0228
	t24	-0.0054	-0.0183	0.0097	0.0212	-0.0062	-0.0263	-0.0047	-0.0178	-0.0738	-0.0009	-0.0025	-0.0332	-0.014	-0.0021
carnitine	t0	0.0096	-0.0445	0.0182	-0.2325*	0.0448	0.0066	0.0799	-0.0315	-0.0015	-0.0582	-0.0443	-0.011	-0.0197	-0.0296
	t24	0.0042	-0.013	0.0216	-0.0205	0.0012	-0.0227	0.0689	0.0008	-0.0002	-0.0733	0.0012	-0.0445	-0.0461	-0.0496

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
3-dehydrocarnitine	t0	-0.0146	0.0018	0.0099	-0.0249	0.0757	0.0119	0.0222	-0.0483	0.1326*	-0.0202	-0.0325	-0.0158	0.0075	-0.0055
	t24	-0.086	-0.0327	-0.0061	0.0414	0.072	0.0337	0.0017	0.0008	0.2250*	-0.0522	0.0139	0.0061	0.0028	-0.0337
acetylcarnitine (C2)	t0	0.0685	-0.0438	-0.0149	-0.0144	0.4309*	-0.0236	0.0194	-0.004	0.0439	-0.1967*	-0.0027	-0.0344	0.0334	0.007
	t24	0.0051	-0.0991	0.0086	0.008	0.4201*	-0.0254	0.0201	-0.0065	0.0082	-0.0296	0.0103	-0.0225	0.0138	0.0248
glutaroylcarnitine (C5)	t0	0.0052	-0.0081	-0.0111	-0.0033	0.0258	-0.0375	-0.0091	0.0211	-0.098	0.056	-0.0086	0.4456*	-0.0756	0.0161
	t24	0.0141	-0.0092	-0.039	0.005	0.0301	-0.0029	-0.0581	0.0263	-0.054	0.0739	0.0044	0.0239	-0.0193	0.0589
methylglutaroylcarnitine (C6)	t0	-0.1487*	0.0085	0.0119	0.0011	0.2336*	-0.0266	-0.0054	-0.0016	-0.0308	-0.0044	-0.1052*	-0.0397	-0.0007	0.0564
	t24	-0.0931	-0.0177	0.0072	0.0153	0.2049*	-0.0464	0.023	-0.0285	0.0308	0.0065	-0.0092	-0.0307	-0.0244	-0.0008
succinoylcarnitine (C4)	t0	-0.0701	0.0053	-0.0175	0.0524	0.2291*	-0.0207	0.0754	-0.0464	-0.0452	0.0093	-0.0564	0.0217	-0.0425	0.0377
	t24	0.0289	-0.0152	-0.0258	-0.0059	0.0154	-0.0328	-0.0048	-0.043	-0.0259	0.0167	-0.0164	-0.0333	0.0183	-0.0184
hexanoylcarnitine (C6)	t0	0.005	-0.0141	0.0539	-0.0141	0.5756*	-0.0119	0.0998	0.0039	0.0155	-0.0978	-0.0137	-0.0239	0.0417	0.0046
	t24	-0.0491	-0.0635	0.0042	0.0195	0.4745*	-0.0152	0.0434	-0.0111	0.0003	-0.0203	0.0097	-0.0298	-0.0193	0.0201
octanoylcarnitine (C8)	t0	0.0203	-0.0405	0.0058	-0.0255	0.5042*	0.0027	0.0141	-0.0082	0.0007	-0.0767	-0.0488	-0.009	0.0181	0.0094
	t24	-0.0102	-0.0315	0.0024	0.0123	0.4203*	-0.0023	-0.0037	-0.0034	0.0151	-0.0268	-0.0139	-0.028	-0.016	-0.0007
2-octenoylcarnitine (C8)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0223	-0.0179	-0.0343	0.0199	0.3175*	-0.0018	-0.0044	-0.0141	-0.0118	-0.02	-0.0258	-0.0097	-0.0249	0.0487
decanoylcarnitine (C10)	t0	0.071	-0.0467	0.0111	-0.0237	0.4717*	0.0078	-0.0095	-0.0192	0.0025	-0.0706	-0.0604	-0.012	0.0138	0.0011
	t24	-0.0022	-0.0316	0.0095	-0.0047	0.3244*	0.0093	-0.0108	-0.0041	0.0555	-0.0124	-0.0121	-0.0393	-0.0298	-0.0071
laurylcarnitine (C12)	t0	0.0993	-0.0138	-0.0152	-0.0622	0.1564*	-0.0161	-0.0103	-0.023	0.0878	-0.0804	-0.0422	-0.0093	-0.0053	-0.0481
	t24	0.0665	-0.0286	-0.0072	-0.0421	0.2242*	0.0128	-0.0019	-0.008	0.0023	-0.0222	-0.0302	-0.0133	-0.0265	-0.0057
palmitoylcarnitine (C16)	t0	0.0532	-0.0039	-0.0144	-0.0245	0.2476*	-0.0063	-0.0449	-0.0151	0.1498*	-0.0368	-0.0246	-0.0288	-0.0072	-0.1574*
	t24	0.0232	-0.0077	-0.0334	-0.0201	0.0404	0.0202	-0.0412	-0.0126	0.0751	-0.0293	0.0131	-0.0319	-0.0018	-0.0579
cholate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.042	-0.0047	0.0133	-0.0087	0.071	-0.0034	0.0042	-0.0009	-0.0546	-0.0269	-0.0056	-0.0037	0.0052	0.3308*
glycocholate	t0	-0.0123	-0.0226	0.0514	0.025	-0.0343	0.0537	-0.0081	-0.0058	-0.0377	0.0162	0.6283*	0.0036	-0.0025	0.0124
	t24	-0.0316	-0.0238	0.0953	0.0177	-0.0187	0.1505*	-0.0156	-0.0047	-0.0114	0.025	0.4337*	-0.0018	0.0083	0.0006
taurocholate	t0	0.0036	-0.0049	0.2401*	-0.0019	-0.0212	0.0406	0.0356	-0.0103	-0.0385	0.0055	0.5391*	0.0097	-0.0106	0.0021
	t24	-0.0151	-0.0029	0.2305*	-0.0038	-0.0037	0.0784	0.011	-0.0022	-0.0183	0.0079	0.5908*	0.0099	0.0039	0.0024
taurochenodeoxycholate	t0	0.002	0.0029	-0.0005	0.006	0.0003	-0.0267	0.0293	-0.0085	-0.0048	0.0075	0.8680*	0.0343	0.0043	-0.0016
	t24	-0.028	0.0043	0.0009	-0.006	0.0691	-0.0107	0.0076	-0.0085	0.0284	0.0111	0.7115*	0.0011	0.0006	-0.0067
ursodeoxycholate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.003	-0.0125	0.1368*	0.0049	-0.0194	0.1764*	-0.0052	-0.0014	0.0014	0.0309	0.3915*	0.002	-0.0134	0.0205
hyodeoxycholate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0204	-0.0381	-0.0165	0.0016	0.0179	-0.0096	-0.028	-0.0016	0.1477*	-0.0234	-0.0352	-0.0059	-0.0279	-0.0689
deoxycholate	t0	-0.0014	0.1442*	-0.0147	0.0078	-0.0243	-0.0093	0.0233	-0.0307	0.0051	-0.0049	-0.0249	-0.002	-0.0257	0.0841
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
glycodeoxycholate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0237	-0.0007	0.0013	0.0121	-0.0421	0.1387*	-0.0041	-0.022	0.0583	-0.1721*	-0.0849	0.0239	-0.0023	-0.0444
glycochenodeoxycholate	t0	0.0118	-0.0001	-0.0146	0.0027	-0.0021	-0.0188	-0.0065	-0.0061	0.0052	-0.0015	0.7536*	0.0045	0.0012	0.0162
	t24	-0.0319	-0.0027	-0.02	0.0008	0.0716	-0.0048	-0.0157	-0.0112	0.015	0.0211	0.5044*	-0.0064	-0.0004	0.0015
taurolithocholate 3-sulfate	t0	-0.0179	-0.0129	0.0899	0.0383	-0.045	0.0281	0.0895	0.0077	-0.0052	0.0184	0.0229	0.0498	0.1050*	-0.0363
	t24	-0.0175	-0.018	0.1760*	0.0275	-0.0256	0.1138*	0.0211	0.0033	0.0036	0.0048	0.3198*	0.0284	-0.0083	-0.009
glycerol	t0	0.0061	-0.0895	-0.0293	0.0145	0.0545	-0.0179	0.0045	0.0296	0.1688*	-0.1563*	-0.0139	-0.0306	0.014	0.2020*
	t24	0.1038*	-0.0786	-0.0076	-0.0449	0.0879	-0.0197	-0.0026	-0.0193	0.0753	0.0175	0.0328	-0.0206	0.0075	0.0079
choline	t0	-0.0299	-0.0399	0.0115	-0.0003	0.0803	0.0176	-0.0134	-0.0799	0.0014	0.0031	-0.2919*	-0.0063	-0.035	0.0388
	t24	-0.027	-0.0052	0.0965	-0.041	0.0413	-0.0012	-0.041	0.0359	-0.0152	0.019	-0.4471*	-0.0156	-0.0429	-0.0347
glycerol 3-phosphate (G3P)	t0	0.0526	-0.0397	0.0042	-0.0003	-0.0199	0.0199	-0.0072	0.0075	0.0315	-0.006	0.0102	-0.0292	-0.0066	0.1036*
	t24	0.0261	0.0109	0.0004	-0.0371	0.0002	0.028	0.0563	0.0069	0.0269	-0.0156	0.0018	-0.0019	-0.0157	0.0044
glycerophosphorylcholine (GPC)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0526	0.0896	-0.0147	-0.0113	-0.1526*	0.0121	-0.0062	0.2709*	0.0468	-0.0004	-0.0077	-0.0277	-0.053	-0.0262

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
myo-inositol	t0	-0.0045	-0.0598	-0.0233	0.1254*	0.0385	-0.0282	0.0254	-0.02	-0.0091	-0.0751	-0.0194	-0.0306	-0.0158	0.1421*
	t24	-0.0047	-0.0136	-0.0241	0.2681*	0.0014	-0.0117	0.087	-0.0069	0.0181	-0.0462	-0.0051	-0.0713	-0.0432	0.016
scyllo-inositol	t0	-0.0015	-0.0422	-0.0186	0.005	0.2268*	-0.0285	-0.0096	-0.0267	0.0124	-0.0818	-0.0226	-0.0199	-0.0225	0.0305
	t24	-0.0139	-0.0231	-0.0178	0.1997*	0.017	-0.0131	0.0388	-0.0149	0.0425	-0.0281	0.0139	-0.062	-0.0242	-0.0032
3-hydroxybutyrate (BHBA)	t0	-0.0357	0.0218	-0.0042	0.0881	-0.0075	0.0435	-0.0174	0.0178	0.0628	0.0194	-0.0465	-0.0274	0.03	-0.0066
	t24	-0.0502	-0.0287	0.1298*	0.0023	0.0117	-0.0088	0.0097	-0.0334	0.0987	0.1862*	-0.0126	-0.0279	0.079	0.0267
acetoacetate	t0	-0.0544	0.0226	0.0043	0.0134	0.0085	-0.0029	-0.0218	0.1396*	0.0445	0.0454	-0.0321	-0.0151	-0.0003	0.0035
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
1-oleoylglycerophosphate (18:1)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0082	-0.0015	0.0306	-0.0034	-0.0933	0.0069	-0.0644	0.019	0.0777	0.0013	-0.01	-0.0564	-0.0552	0.0187
1-oleoyl-GPE (18:1)	t0	0.0054	0.0715	-0.1478*	-0.0442	0.0413	0.0042	0.0005	0.0149	-0.0151	0.078	-0.0552	-0.0098	-0.0276	-0.0151
	t24	0.1163*	0.0089	-0.0316	-0.0019	-0.0787	0.0014	-0.0679	-0.0053	0.1634*	0.0142	-0.0374	-0.0017	-0.015	-0.0121
1-linoleoyl-GPE (18:2)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.1830*	0.0022	0.0008	-0.0026	-0.061	-0.0018	-0.0119	0.0034	0.0704	-0.0031	-0.1005*	-0.0099	-0.1160*	-0.0116
1-arachidoyl-GPE (20:4)	t0	0.0867	0.0007	-0.0262	-0.0111	-0.0055	0.0078	-0.0475	0.0776	-0.0071	0.0067	-0.1182*	-0.0068	-0.0214	-0.0938
	t24	0.0733	0.0178	0.0012	-0.0189	-0.2246*	-0.0213	-0.0117	0.0268	0.1523*	-0.0382	-0.1052*	-0.0258	-0.1290*	-0.0139
1-myristoyl-GPC (14:0)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.1482*	0.0257	-0.0232	-0.0367	0.0052	0.1031*	0.0058	-0.0307	-0.0262	-0.0105	-0.0215	-0.0121	-0.0719	-0.0345
1-palmitoyl-GPC (16:0)	t0	0.1043*	0.0599	-0.0058	-0.1111*	-0.0324	0.0133	-0.0093	0.0243	0.0148	0.012	-0.0881	-0.005	-0.0388	-0.0262
	t24	0.3310*	0.0084	-0.0252	0.0165	-0.055	0.0335	-0.0174	0.02	0.0099	0.0239	-0.0789	-0.0219	-0.0525	-0.1171*
2-palmitoyl-GPC (16:0)	t0	0.0982	0.0159	0.0019	-0.0537	-0.0135	0.026	0.0031	0.0316	-0.0007	0.017	-0.0127	0.0091	-0.0347	-0.0169
	t24	0.2406*	0.0146	-0.019	-0.0187	-0.0315	0.0374	-0.0301	0.0588	0.0021	-0.0094	-0.048	-0.0084	-0.0525	-0.0496
1-palmitoleoyl-GPC (16:1)	t0	0.0781	0.0235	-0.0098	-0.0511	-0.0345	0.0097	0.0094	0.0441	0.0153	0.0992	-0.0302	0.0109	-0.0517	0.0158
	t24	0.0175	0.0478	-0.0021	-0.0256	-0.0603	0.0105	0.0101	0.014	-0.0044	0.024	-0.0456	0.0026	-0.0941	0.0013
1-stearoyl-GPC (18:0)	t0	0.0511	0.2975*	-0.0073	-0.0376	-0.0156	-0.0068	0.0072	0.0077	0.0344	-0.0039	-0.0337	-0.0124	-0.0246	0.0049
	t24	0.2536*	0.0804	-0.035	-0.0091	-0.0662	0.0454	0.0049	0.0102	0.0377	0.0007	-0.1026*	-0.0023	-0.0809	-0.0475
2-stearoyl-GPC (18:0)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.1058*	0.1023*	-0.0459	-0.032	-0.2385*	0.0167	-0.0314	0.0337	0.0305	-0.0035	-0.0546	-0.0099	-0.0387	-0.03
1-oleoyl-GPC (18:1)	t0	0.0409	0.0226	-0.0049	-0.1259*	-0.0017	-0.0111	-0.0085	0.025	0.0045	0.0585	-0.0507	-0.0045	-0.03	-0.0182
	t24	0.2349*	0.0274	-0.0385	-0.001	-0.0945	0.0055	-0.0205	0.0312	0.0095	0.0198	-0.0386	-0.0362	-0.0563	-0.1524*
1-linoleoyl-GPC (18:2)	t0	0.0872	0.0207	-0.0021	-0.0864	-0.0157	0.0081	-0.0221	0.0391	-0.0124	0.0783	-0.0424	-0.0012	-0.0325	-0.0113
	t24	0.2560*	0.041	-0.055	-0.0083	-0.0584	0.0011	-0.0046	0.0349	-0.0025	-0.0277	-0.0229	-0.0103	-0.0502	-0.0581
1-eicosatrienoyl-GPC (20:3)	t0	0.0023	0.0095	0.014	-0.0021	-0.0199	-0.0126	-0.0021	0.0288	-0.0301	0.1655*	-0.0119	0.4295*	-0.1391*	0.0048
	t24	0.0844	0.0216	-0.0381	0.0591	-0.1616*	0.0049	-0.0396	-0.0003	-0.0045	0.0534	-0.0047	-0.0025	-0.0756	-0.0353
1-arachidoyl-GPC* (20:4)	t0	0.0783	0.0219	0.0026	-0.0658	-0.0195	0.0083	-0.0524	0.1176*	-0.0092	0.0127	-0.0703	-0.0123	-0.0309	-0.0094
	t24	0.0676	0.0517	-0.0175	0.0031	-0.1595*	-0.0004	-0.0247	0.0463	0.0271	0.0032	-0.0501	-0.0152	-0.1711*	-0.0497
1-stearoyl-GPI (18:0)	t0	-0.0317	0.017	0.0051	-0.0031	0.0403	0.0082	-0.006	0.2034*	-0.1515*	0.0134	-0.0139	-0.0052	-0.011	-0.0276
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
1-arachidoyl-GPI* (20:4)	t0	0.0067	0.0438	-0.0034	-0.0038	-0.0059	-0.0077	0.0242	0.1533*	0.0374	0.1155*	-0.0693	0.0309	0.0192	-0.0174
	t24	0.0155	-0.0004	0.0671	-0.0209	-0.0281	-0.0075	-0.0371	-0.0175	0.0426	-0.0245	-0.0602	-0.036	-0.0131	-0.0114
1-palmitoylglycerol (16:0)	t0	0.0041	-0.048	0.0148	-0.007	0.0166	0.0069	-0.0064	-0.0135	-0.0074	-0.0241	0.0073	-0.0054	-0.0095	0.1121*
	t24	0.0276	-0.0136	0.2603*	-0.0121	-0.0565	-0.0005	0.1045*	-0.041	-0.0174	-0.0071	-0.0036	0.0079	-0.0269	0.001
1-stearoylglycerol (18:0)	t0	0.0807	-0.0026	-0.0637	0.01	-0.018	0.0406	-0.0277	-0.2456*	0.0255	-0.006	-0.0094	-0.0074	-0.0232	0.0001
	t24	-0.0315	0.0072	0.0446	0.0183	-0.1830*	0.0579	0.0063	-0.1085*	0.0346	-0.0059	-0.0003	0.0286	-0.0142	-0.0073
lathosterol	t0	-0.0289	0.0092	-0.0062	0.1511*	-0.0246	0.0237	-0.0057	0.0083	0.0028	0.0095	0.0068	0.0297	0.014	-0.0231
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
cholesterol	t0	0.0284	-0.0173	-0.0025	0.0082	-0.0103	0.0147	-0.026	0.0168	-0.0424	-0.1203*	0.1998*	0.0475	-0.024	-0.0021
	t24	-0.0142	-0.0233	0.2523*	0.0626	-0.0632	0.0572	-0.0401	0.0258	0.0159	0.0036	0.3506*	0.0158	-0.0287	-0.0167
dehydroisoandrosterone sulfate (DHEA-S)	t0	-0.1013*	0.0411	0.0333	0.0036	-0.0105	-0.0196	-0.0065	-0.0055	-0.0628	-0.0098	-0.0294	-0.0074	0.0357	-0.0044
	t24	-0.0191	-0.0046	0.0837	-0.0015	0.0126	-0.0209	-0.0027	-0.0011	-0.0411	-0.0134	-0.0081	0.0078	0.0852	0.0002

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
epiandrosterone sulfate	t0	-0.1226*	0.0149	0.0476	-0.008	0.007	-0.0441	-0.0141	0.0279	-0.0568	-0.0017	-0.0342	-0.0068	0.027	-0.006
	t24	-0.0455	-0.001	0.0165	-0.0083	0.016	-0.0471	-0.0105	0.0265	-0.0139	-0.0235	-0.0092	0.0006	0.019	0.0104
androsterone sulfate	t0	-0.1641*	0.0126	0.2292*	-0.0237	0.0115	-0.0627	0.002	0.027	-0.024	0	-0.0123	-0.0219	0.1858*	0.0009
	t24	-0.0465	-0.011	0.3719*	-0.0186	0.0229	-0.0366	-0.0018	0.0063	-0.0034	-0.0075	0.0099	-0.0048	0.0662	0.0217
cortisol	t0	-0.1133*	-0.0285	0.0014	0.0543	0.0439	-0.0388	-0.0379	-0.0141	0.013	0.0153	-0.0397	-0.0274	0.024	0.0019
	t24	-0.083	-0.0506	-0.0254	0.1603*	0.0699	-0.007	-0.0551	-0.0163	-0.026	0.0168	-0.019	-0.0605	0.0257	0.0037
cortisone	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0145	0.0071	-0.0653	-0.0406	0.2909*	0.028	-0.0223	0.0158	0.0008	-0.0109	0.0013	-0.0149	0.0916	0.0268
beta-sitosterol	t0	0.0182	0.0023	-0.0002	0.0053	-0.0492	0.0048	0.0289	-0.0059	-0.0056	-0.0292	0.6034*	0.0178	-0.001	0.0053
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
7-HOCA	t0	-0.0123	0.0119	-0.0689	-0.0344	0.1252*	-0.0277	0.0023	0.0074	0.007	0.0101	0.6135*	0.0324	-0.0228	-0.0064
	t24	0.0001	-0.0134	-0.0402	-0.0145	0.1419*	-0.0272	0.0088	-0.0132	0.0197	-0.0086	0.6855*	-0.0074	0.0216	0.0119
xanthine	t0	0.0273	-0.0572	0.0004	-0.0261	0.0933	-0.0165	0.0111	-0.0011	-0.0018	-0.0449	0.0291	-0.0728	0.1904*	-0.0079
	t24	0.0149	0.0398	0.0745	-0.0626	-0.0151	-0.0086	0.0596	0.2026*	-0.0264	0.0184	0.2314*	-0.0082	0.0187	-0.0178
hypoxanthine	t0	0.0107	-0.0595	0.0067	-0.0534	0.042	-0.0125	0.073	-0.0176	0.0634	-0.0184	-0.0243	-0.0409	-0.0642	-0.03
	t24	-0.0237	0.013	0.0683	-0.0091	-0.0059	0.0198	-0.0272	0.083	-0.013	0.1330*	-0.023	0.0031	-0.0221	-0.0326
1-methyladenosine	t0	-0.1403*	0.0071	0.01	-0.0092	0.1384*	-0.0055	0.017	-0.2848*	-0.0018	-0.008	-0.0097	0.0165	-0.0396	0.0391
	t24	-0.1434*	-0.1215*	0.031	-0.0017	0.0876	-0.0186	0.0543	-0.1128*	0.0802	0.0516	0.0126	-0.0073	0.0138	-0.0229
adenosine 5'-monophosphate (AMP)	t0	0.0213	0.003	-0.0539	0.088	-0.033	-0.0207	-0.0165	0.0106	-0.0362	0.0495	-0.0406	-0.0647	-0.007	-0.0001
	t24	-0.0143	0.0336	-0.0142	0.0343	-0.0848	0.0384	-0.0153	0.0055	-0.0128	0.0505	-0.052	0.0011	-0.0346	-0.1296*
N2,N2-dimethylguanosine	t0	-0.0432	-0.0197	0.037	0.0065	0.5891*	-0.0165	0.0059	-0.0184	-0.0075	0.0091	-0.0516	-0.0065	-0.0023	0.0161
	t24	-0.0395	-0.0369	0.006	0.0262	0.5792*	0.0362	0.0743	-0.0444	0.0826	-0.0352	0.0147	-0.0022	-0.0113	0.0007
N6-carbamoylthreonyladenosine	t0	-0.0038	-0.012	0.0328	-0.0011	0.5570*	-0.0555	-0.0115	-0.0023	0.0002	0.0236	-0.0504	-0.0195	0.0049	0.026
	t24	-0.0954	-0.0466	0.0421	0.0153	0.3715*	0.0005	0.0464	-0.0668	0.032	-0.0767	-0.0006	-0.0134	-0.0014	-0.0088
urate	t0	-0.0042	-0.0486	-0.0004	-0.0121	0.1	-0.0073	-0.0032	0.0088	-0.0379	-0.1804*	-0.0163	0.0026	-0.0186	0.0171
	t24	0.0287	-0.1225*	-0.0055	-0.0085	0.1667*	-0.0363	-0.008	0.0306	-0.0061	-0.0918	-0.0106	-0.024	-0.0227	0.0123
allantoin	t0	0.0578	-0.0543	-0.0161	-0.0045	0.4532*	-0.0429	0.0221	-0.0076	-0.1359*	-0.0332	0.0438	0.0029	-0.0254	0.0331
	t24	0.0287	-0.04	0.0015	-0.0235	0.3857*	-0.0058	0.0059	-0.0214	-0.0037	-0.0997	0.0211	0.0115	0.0242	0.0079
uridine	t0	0.3687*	0.0057	-0.0003	-0.0516	0.0019	0.0304	-0.0375	0.0148	0.0738	0.0451	-0.0163	-0.0111	-0.0181	-0.0695
	t24	0.0189	0.0002	0.0903	-0.0605	-0.0737	0.07	0.0047	0.0736	0.038	0.0677	-0.1075*	-0.0092	0.0231	0.0516
pseudouridine	t0	-0.0055	-0.0279	0.0212	0.0113	0.6664*	-0.0091	0.0079	-0.0037	-0.0336	-0.013	-0.0051	-0.0075	0.0027	0.0304
	t24	-0.0119	-0.0663	0.0209	-0.004	0.3705*	-0.0266	-0.014	-0.0126	0.0297	-0.0014	0.0805	-0.0094	-0.0157	0.004
gulono-1,4-lactone	t0	-0.0131	-0.0633	-0.0024	0.0486	0.0228	0.0052	-0.0149	-0.0048	-0.0751	-0.0317	-0.018	-0.019	-0.0203	0.0305
	t24	-0.0226	-0.0775	0.0616	0.001	0.0132	0.0067	0.0018	-0.0093	0.0029	-0.0411	0.009	-0.0005	-0.0203	0.0166
threonate	t0	0.0094	-0.033	-0.02	0.0038	0.0321	-0.0252	-0.0086	-0.0011	-0.0522	0.0241	-0.0117	0.0066	-0.0682	-0.0001
	t24	0.0198	-0.0182	-0.0129	0.0108	0.0303	-0.0416	-0.0219	0.0017	0.0051	0.0266	0.0111	-0.0141	-0.0964	-0.004
heme	t0	0.0593	-0.009	0.0232	-0.0441	-0.0057	-0.0232	-0.0025	0.0214	0.0274	-0.0405	0.0265	-0.0091	-0.0271	-0.0054
	t24	-0.0183	-0.0035	0.0443	0.0014	-0.0237	0.005	0.0015	0.0279	-0.0258	0.0139	-0.0323	0.0162	0.0024	-0.0084
bilirubin	t0	-0.0314	-0.0005	-0.0441	-0.015	0.0985	-0.0216	0.0005	-0.0017	0.0326	0.0228	0.4212*	0.0055	-0.0116	-0.0137
	t24	-0.0416	0.0099	-0.0217	0.0062	0.2644*	0	-0.006	0.0125	-0.0052	0.0005	0.1639*	-0.012	-0.0097	0.0178
bilirubin (E,E)	t0	-0.0089	0.0899	-0.0403	-0.0344	0.0262	-0.098	0.0051	0.045	-0.0023	0.0273	0.3317*	0.0046	-0.0026	-0.0278
	t24	0.0122	0.0341	-0.071	-0.0299	0.021	-0.0383	-0.0151	0.0626	-0.031	-0.0052	0.3849*	-0.0278	0.0361	0.0163
bilirubin(E,Z or Z,E)	t0	-0.0169	0.2295*	0.0105	-0.0009	-0.0063	-0.0163	-0.0117	0.0552	-0.022	0.0498	0.0717	-0.0031	-0.0123	0.0091
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
biliverdin	t0	0.0135	0.1089*	-0.0131	-0.0244	0.0039	-0.1300*	-0.0035	0.0566	-0.0717	0.0286	0.3164*	-0.0005	-0.0019	-0.0016
	t24	-0.0098	0.0674	-0.0339	-0.0211	0.0489	-0.0254	0.0135	0.0413	-0.0849	0.0127	0.5022*	-0.0449	0.0037	0.0142
trigonelline (N'-methylnicotinate)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.017	-0.03	0.0112	0.0433	-0.0513	0.0128	-0.0285	-0.0303	0.0214	0.0724	0.0143	0.0176	-0.0155	-0.0135
pantothenate (Vitamin B5)	t0	-0.0555	-0.0158	-0.0147	0.0058	0.2864*	-0.0112	-0.0049	0.0067	-0.0205	0.0173	-0.0132	-0.0201	-0.0085	0.0375
	t24	-0.0914	-0.0404	-0.0025	0.0664	0.0964	-0.0267	-0.0222	0.0227	-0.0208	0.1022*	-0.0113	-0.0432	-0.0319	0.022

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
alpha-tocopherol	t0	0.018	-0.0016	-0.0445	-0.0094	0.0225	0.048	-0.0448	-0.0016	0.1071*	0.0601	-0.0593	-0.0036	-0.0053	0.0243
	t24	0.0208	-0.0302	-0.0124	0.0052	0.002	0.0089	-0.0647	0.011	0.0146	-0.0167	0.0003	-0.0169	0.0097	0.0054
pyridoxate	t0	-0.0446	0.0035	-0.0218	0.001	0.1548*	0.0164	-0.0035	0.0007	-0.1178*	0.1093*	-0.0449	0.0604	-0.0231	0.0014
	t24	-0.0122	-0.0254	0.0265	-0.0173	0.0404	0.2010*	-0.0159	-0.0187	-0.0003	0.03	0.07	-0.0021	-0.0159	0.0361
hippurate	t0	-0.0064	-0.0365	-0.0296	0.0701	0.2267*	-0.0129	0.0056	-0.0152	-0.0183	-0.0247	-0.0502	0.1844*	-0.1085*	0.0932
	t24	0.0076	-0.0266	-0.0138	0.0968	-0.004	-0.0085	0.1324*	-0.011	0.1200*	-0.0835	-0.0075	-0.0368	-0.0526	-0.012
catechol sulfate	t0	0.02	-0.0293	-0.0111	-0.0167	0.0406	-0.0206	0.0059	-0.0038	-0.0335	0.0573	-0.0099	0.2171*	-0.0842	0.0139
	t24	0.0062	-0.0449	0.0103	0.0012	0.0063	0.0155	-0.0081	0.0021	0.0332	-0.0044	0.0693	0.1436*	0.009	0.0142
4-vinylphenol sulfate	t0	-0.0183	0.1257*	-0.0447	0.1580*	-0.0154	-0.0103	-0.0104	-0.0615	-0.0591	0.0494	-0.0109	0.011	-0.0037	0.0112
	t24	-0.0011	0.0471	-0.0475	0.0474	-0.0452	0.0523	-0.0019	-0.0715	-0.0196	0.0223	0.0003	-0.0019	-0.0215	0.0167
glycolate (hydroxyacetate)	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0013	0.0125	-0.0139	-0.0085	0.0256	-0.0378	0.0047	0.002	0.014	0.009	0.5219*	0.0887	0.1219*	0.0115
iminodiacetate (IDA)	t0	0.1418*	-0.0339	0.0166	-0.0283	-0.0125	0.3078*	-0.0165	0.0041	-0.012	0.1337*	-0.0554	0.0693	-0.0231	-0.0171
	t24	-0.0039	-0.0024	0.0712	-0.0698	0.0044	0.0119	0.0092	-0.0068	0.0113	0.0587	-0.0406	0.0057	0.1720*	-0.034
salicyluric glucuronide	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0105	-0.0512	0.023	-0.0272	0.0219	0.0006	-0.0294	0.0013	0.0221	-0.0661	-0.0396	-0.0137	-0.0267	0.0017
4-acetaminophen sulfate	t0	-0.0634	0.0745	0.0025	0.2052*	-0.0387	-0.0605	-0.0143	-0.0984	-0.0213	0.1433*	-0.0272	0.0192	0.0046	-0.0106
	t24	-0.3917*	0.0376	-0.0048	0.0221	-0.1438*	-0.1300*	0.0467	-0.0743	0.0131	0.0034	-0.0097	-0.0166	-0.0337	0.0098
4-acetamidophenol	t0	-0.1302*	0.0768	-0.0041	0.0384	-0.015	-0.0537	0.0218	-0.0548	0.0048	0.3310*	-0.0258	0.0324	0.0075	0.0069
	t24	-0.1869*	0.0882	0.0506	-0.0058	-0.0417	-0.078	0.0256	-0.0188	-0.015	0.028	-0.0304	-0.0109	-0.0304	0.0033
p-acetamidophenylglucuronide	t0	-0.0089	0.0072	-0.0217	0.0478	-0.0092	-0.0219	-0.0056	-0.0429	-0.0111	0.1237*	-0.0097	0.0774	-0.0426	-0.0441
	t24	-0.1856*	0.1160*	0.0135	0.0146	-0.0234	-0.0151	0.0089	-0.0945	0.0224	0.0333	0.0164	-0.01	-0.0283	-0.0203
2-hydroxyacetaminophen sulfate	t0	-0.0144	0.0154	-0.0165	0.0309	-0.0219	-0.0865	0.0065	-0.0557	-0.0999	0.0412	-0.0255	0.1231*	-0.0158	-0.0173
	t24	-0.2769*	0.3610*	-0.0126	0.086	-0.0432	-0.3245*	0.0208	-0.0502	-0.0389	-0.0013	0.0186	0.0083	-0.0174	0.0079
2-methoxyacetaminophen sulfate	t0	-0.0725	0.0488	0.0311	0.1624*	-0.04	-0.0971	0.0116	-0.0547	-0.0288	0.0938	-0.0329	0.1468*	-0.0005	-0.0251
	t24	-0.4057*	0.1616*	-0.0042	0.1056*	-0.2646*	-0.2318*	0.0627	-0.0972	-0.0019	0.0021	-0.0059	-0.0298	-0.0789	-0.0002
3-(cystein-S-yl)acetaminophen	t0	-0.1609*	0.0062	0.0115	0.0369	-0.0113	-0.0412	0.0373	-0.015	-0.0145	0.1901*	-0.0182	0.0487	0.05	-0.0003
	t24	-0.2578*	0.2881*	0.0235	0.0215	-0.0796	-0.0751	0.0721	-0.0094	-0.0086	0.0274	-0.0237	0.0032	-0.0184	0.0026
ibuprofen	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0023	-0.0035	0.003	-0.0153	0.0388	0.0032	-0.0002	0.0029	0.0146	0.0356	0.0261	0.0009	0.0171	0.2549*
hydroquinone sulfate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.03	-0.0338	-0.0295	0.1125*	0.0377	0.0141	0.044	-0.0279	-0.0029	-0.2108*	-0.009	-0.0439	-0.0445	0.0407
galactonate	t0	0.0417	-0.04	-0.0082	0.0678	-0.0337	-0.0021	-0.062	-0.0114	-0.001	-0.0128	0.0019	-0.0188	0.0013	0.0414
	t24	0.0335	-0.0113	-0.0135	0.1410*	-0.0364	0.0032	0.0328	0.0059	-0.0064	-0.0742	-0.0044	-0.1263*	0.2883*	0.0084
quinate	t0	0.0394	-0.0538	-0.0104	0.0097	0.002	-0.0195	-0.0545	0.003	0.0465	0.0232	-0.006	-0.0024	-0.0501	0.0428
	t24	0.0295	-0.0297	0.0112	0.0011	0.0063	0.0177	-0.0404	-0.0174	0.0116	0.0164	0.0581	-0.0085	-0.0193	0.0063
piperine	t0	0.036	0.0079	-0.0116	0.0837	-0.0745	0.0005	-0.0003	-0.0286	0.001	0.0066	-0.0077	0.031	-0.0427	0.1504*
	t24	0.0566	-0.0241	-0.0502	0.1531*	-0.0417	-0.0382	-0.016	-0.0202	-0.0168	0.0335	-0.0114	0.0131	-0.0314	-0.0004
caffeine	t0	-0.035	0.0172	-0.0006	0.015	-0.0031	0.0093	0.006	-0.0017	0.0204	0.0406	0.5353*	0.008	-0.0046	-0.039
	t24	-0.0405	0.0166	-0.0069	0.0098	0.0418	0.0421	-0.0143	-0.0044	0.0497	0.0386	0.5713*	0.0064	0.0031	-0.025
1-methylurate	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0066	-0.0062	-0.0056	-0.0208	0.3777*	-0.0095	-0.0364	0.0599	0.1190*	-0.0113	-0.0446	-0.0035	-0.008	-0.0081
erythritol	t0	-0.0046	-0.0598	0.0093	0.0304	0.6020*	0.0015	0.003	-0.0083	-0.1100*	-0.0816	-0.014	-0.0038	-0.008	0.0357
	t24	-0.006	-0.0667	-0.0054	0.0126	0.4089*	-0.008	-0.0005	-0.0071	0.0011	-0.0762	0.081	-0.017	-0.0314	0.0107
X-01911	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0148	0.0035	-0.0005	0.3205*	-0.0284	-0.0138	0.0445	-0.0232	-0.0264	0.0395	-0.0012	0.1024*	-0.0637	-0.0101
X-02249	t0	0.0042	0.0227	-0.022	0.0179	-0.0774	-0.0205	-0.0098	0.0235	0.0346	0.066	-0.0475	0.0034	-0.0966	0.1857*
	t24	0.0528	-0.0116	-0.0112	0.0234	-0.1156*	0.0262	-0.013	-0.0113	0.2293*	0.0753	-0.0137	-0.0029	-0.1451*	0.2732*
X-03056	t0	-0.0306	0.0002	0.0159	-0.0099	0.4493*	0.0284	-0.0016	-0.0044	0.0246	-0.0442	-0.0871	-0.0188	0.0115	-0.0408
	t24	-0.0165	-0.0308	0.0241	-0.0302	0.2829*	0.0095	-0.009	-0.0008	0.0596	-0.0369	-0.0359	-0.0274	-0.0267	-0.0111

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-06126	t0	-0.0698	-0.0146	0.0102	0.0104	0.0574	0.0122	0.009	-0.0099	0.0267	0.0868	0.0003	0.0058	-0.0131	0.1943*
	t24	-0.0314	-0.0581	0.0447	0.0168	0.0478	0.0514	-0.0052	-0.0097	0.0353	0.0568	0.0568	-0.009	-0.0228	0.0714
X-07765	t0	-0.0211	0.1251*	-0.0455	0.028	-0.0109	0.0418	-0.0095	-0.0414	0.0114	0.0396	-0.0088	0.0093	0.0015	-0.0188
	t24	-0.0139	0.048	-0.0436	0.0343	-0.012	0.1222*	0.0313	-0.0322	0.0227	0.0005	0.0027	0.0203	0.0081	-0.0169
X-09789	t0	0.0078	0.0031	-0.052	0.0296	-0.0087	0.0583	0.0139	-0.0138	0.0046	0.0402	0.0006	0.049	-0.0398	0.0176
	t24	0.0055	-0.0188	-0.0155	0.0512	-0.0154	0.058	-0.0306	-0.0302	0.0128	0.0651	0.0878	0.0164	-0.0338	0.0111
X-11204	t0	0.0191	-0.0019	-0.0203	-0.007	-0.0126	0.0106	0.0889	-0.0548	-0.008	-0.0121	0.0029	0.0375	0.0306	0.0099
	t24	0.1060*	0.0679	-0.0044	-0.1016*	-0.0962	-0.0015	-0.0642	0.0362	0.0072	0.0068	0.0138	-0.1074*	-0.0827	-0.3092*
X-11244	t0	-0.1389*	-0.0647	0.0001	0.0816	0.021	-0.0074	-0.0188	0.0181	-0.0688	-0.0041	-0.0427	-0.0108	0.2350*	0.0008
	t24	-0.1349*	-0.0791	0.0267	0.0686	0.0444	0.0623	-0.0005	0.0175	-0.0444	-0.0749	-0.0096	0.0146	0.1275*	0.0362
X-11245	t0	-0.1573*	-0.0118	0.0133	0.0436	0.0071	0.0384	-0.0047	-0.0309	-0.1442*	0.006	-0.0392	-0.021	0.0525	0.0118
	t24	-0.0921	-0.0588	0.0185	0.1261*	0.014	0.1457*	-0.03	-0.0081	-0.0767	-0.0293	-0.0338	-0.0306	0.0098	0.0644
X-11255	t0	0.0098	0.0215	-0.0007	0.0005	-0.0218	-0.0086	-0.0019	-0.0057	-0.0684	0.1676*	-0.0065	-0.0855	0.7154*	0.0125
	t24	0.0497	0.0063	-0.0309	0.0225	-0.0427	-0.0065	-0.0225	-0.0069	-0.0509	0.2091*	-0.0032	-0.0673	0.5780*	0.0172
X-11261	t0	0.0277	0.0379	-0.0277	-0.0085	-0.0111	0.0438	-0.0081	-0.0039	0.009	0.026	-0.1045*	-0.0112	-0.0321	-0.021
	t24	0.0155	-0.0022	-0.0126	-0.003	-0.0003	0.0834	-0.0146	-0.0033	0.1223*	-0.0102	-0.062	-0.0228	-0.0991	0.0002
X-11273	t0	-0.1580*	-0.0264	0.0612	0.0614	-0.0215	-0.0254	-0.0046	-0.0168	-0.0463	-0.0131	-0.0409	-0.0041	0.0287	0.0072
	t24	-0.1303*	-0.0259	0.1524*	0.0029	0.0261	0.0327	-0.0233	-0.0288	-0.0527	-0.0383	0.0104	-0.0174	0.0029	0.0104
X-11282	t0	-0.0326	-0.0035	0.0362	-0.0056	0.0213	0.1712*	0.1597*	-0.0667	-0.1572*	-0.0189	-0.0255	0.0031	-0.0062	-0.0026
	t24	-0.0083	-0.0461	0.0146	-0.0049	0.0305	0.3274*	0.0351	-0.0727	-0.0209	-0.0777	-0.0335	-0.0057	0.0033	-0.0006
X-11299	t0	0.0139	-0.0099	-0.0229	-0.0389	0.0858	0.0081	0.013	-0.0066	0.0516	-0.0665	0.0053	-0.0057	-0.0155	-0.0379
	t24	0.0244	-0.031	-0.0035	-0.0193	0.0227	0.0455	-0.0019	-0.0104	0.0316	-0.0147	0.0277	-0.0017	-0.0121	-0.0803
X-11302	t0	-0.1102*	0.0554	0.0034	0.049	-0.0271	-0.0216	-0.0077	-0.0093	-0.1052*	0.0235	-0.0316	-0.0118	0.0004	0.0001
	t24	-0.0415	0.0021	-0.0033	0.1097*	-0.0089	-0.0012	-0.0243	-0.001	-0.081	0.0278	-0.0178	-0.0325	-0.0045	0.0131
X-11303	t0	-0.0041	-0.0143	0.0049	0.2150*	-0.0137	0.0396	0.0162	-0.0267	0.0196	0.0014	0.0503	0.0122	-0.0001	-0.0316
	t24	-0.0105	-0.0805	0.0566	0.0341	-0.0169	0.3380*	0.0116	-0.0017	-0.0032	0.0014	0.2284*	0.0259	0.0037	-0.0008
X-11308	t0	0.0175	0.1856*	-0.0314	-0.088	-0.0036	0.0216	0.0168	-0.002	-0.0293	-0.0252	0.007	-0.0089	-0.0339	0.0346
	t24	0.026	0.0483	-0.0047	-0.0319	-0.0096	-0.0184	0.0376	0.0617	0.0086	-0.0585	-0.0099	-0.0051	-0.0637	-0.0258
X-11315	t0	0.0067	0.0207	0.0022	-0.1972*	0.0191	-0.1681*	-0.0065	0.0142	-0.2426*	-0.0661	0.0201	-0.0086	-0.008	0.021
	t24	0.0117	0.0177	0.0101	-0.0485	-0.0074	-0.2802*	-0.0244	0.0821	-0.2908*	-0.041	0.0187	-0.0068	-0.0308	0.0083
X-11317	t0	0.0113	0.0268	-0.0282	0.0168	-0.0238	0.0016	-0.0175	0.0705	-0.094	0.2557*	-0.0645	0.0293	-0.0427	-0.051
	t24	-0.0588	0.0444	0.073	-0.0097	-0.0229	0.3676*	0.0571	-0.0062	0.0296	0.0166	0.0116	0.0972	-0.0016	0.0231
X-11327	t0	0.047	-0.0394	-0.0369	0.0051	0.0013	-0.0479	0.0501	-0.0241	-0.0147	-0.0162	0.0046	0.0168	0.0003	0.0083
	t24	0.0193	0.0699	0.0065	-0.1347*	-0.0371	-0.0223	-0.0781	0.0311	-0.004	0.012	0.0289	-0.0898	-0.0968	-0.3209*
X-11333	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0399	-0.0371	-0.0098	-0.0195	0.1147*	-0.0003	0.0085	-0.0175	0.0937	-0.1737*	-0.0272	-0.0139	-0.053	0.0685
X-11334	t0	0.0076	-0.0471	-0.0753	0.0116	0.2926*	-0.0009	-0.0031	-0.015	-0.059	-0.0248	-0.0194	0.0055	-0.0427	0.0837
	t24	0.0174	-0.0834	-0.0163	-0.0178	0.2449*	-0.0066	-0.007	0.0024	0.084	-0.0289	0.0073	-0.0506	-0.0593	0.0357
X-11381	t0	0.012	-0.0269	0.0293	-0.0313	0.5367*	-0.0041	0.0389	-0.0195	0.0201	-0.026	-0.1050*	-0.0125	0.031	-0.0106
	t24	-0.0051	-0.0165	0.0084	0.0069	0.3290*	-0.0083	0.0048	0.0038	0.0327	-0.0501	-0.0205	-0.0223	-0.0188	-0.0137
X-11400	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.037	0.0456	-0.0228	0.0134	-0.0324	0.0017	0.002	0.069	0.0141	0.0133	-0.0157	-0.0163	-0.017	-0.0444
X-11412	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0353	0.0284	0.1576*	-0.0146	-0.1515*	0.1249*	-0.0082	0.0014	0.0079	0.0928	0.0035	0.0356	-0.0735	-0.0282
X-11421 (4-cis-decenoylcarnitine)	t0	0.0316	-0.0222	-0.0018	-0.0236	0.4141*	-0.0013	0.0113	-0.0067	0.0176	-0.0451	-0.0725	-0.016	0	-0.0138
	t24	0.0185	-0.0198	-0.0022	-0.0212	0.3230*	0.0104	-0.0103	-0.0019	0.0313	0.0021	-0.0595	-0.0128	-0.0257	-0.0102
X-11422	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0194	0.0197	0.0718	-0.0211	-0.0875	-0.0044	0.0127	0.1326*	-0.0396	0.0331	0.0399	0.0036	0.0592	-0.0209
X-11423	t0	-0.011	-0.0263	-0.0049	0.0179	0.4231*	-0.0237	-0.0115	-0.0048	-0.0093	0.009	-0.1371*	0.0071	-0.0276	0.0157
	t24	0.0461	-0.0689	0.0008	-0.0049	0.5341*	0.0099	0.0041	-0.0132	0.1462*	-0.0158	-0.0188	-0.0086	-0.0557	0.0628

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-11429	t0	-0.0022	-0.0353	0.0175	0.0073	0.5847*	-0.0051	-0.0042	-0.0004	-0.0121	-0.0243	-0.035	-0.0309	-0.024	0.0206
	t24	0.0075	-0.0552	0.0387	0.0058	0.5791*	-0.004	-0.0018	-0.018	0.0288	-0.0009	0.0118	0.0042	-0.0099	0.0507
X-11437	t0	-0.0149	-0.0266	0.0209	0.0313	0.0197	-0.0369	0.0554	-0.0276	-0.07	-0.0267	-0.0273	-0.0245	-0.0249	0.0099
	t24	-0.0676	-0.0116	0.0017	0.0666	0.0028	0.091	-0.0148	-0.0491	-0.0269	-0.0009	0.0112	-0.0302	-0.025	-0.0052
X-11438	t0	-0.0073	0.0017	0.0034	-0.0405	0.0404	-0.0092	-0.0001	0.0076	0.0666	0.0116	0.0195	-0.0218	-0.0188	-0.0077
	t24	-0.0405	-0.0218	0.0205	0.0055	0.1439*	0.0519	-0.0051	-0.0125	0.0057	-0.0119	0.1677*	-0.0154	-0.0277	0.08
X-11440	t0	-0.1502*	-0.019	-0.0038	0.0992	0.0172	0.018	-0.0048	0.0026	-0.1846*	-0.003	-0.0343	-0.0201	0.0271	0.0309
	t24	-0.0591	-0.0208	0.0081	0.3492*	0.0488	0.1260*	-0.0045	0.0008	-0.0401	-0.0647	-0.0162	-0.0618	-0.0158	0.1845*
X-11441	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0029	0.0177	-0.0473	-0.0295	0.087	-0.0283	-0.0166	0.0209	0.0182	0.0218	0.6959*	-0.0106	-0.0069	-0.0115
X-11442	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0036	0.0185	-0.0412	-0.0279	0.077	-0.0294	-0.0125	0.017	0.0062	0.016	0.6582*	-0.0046	-0.0059	-0.0018
X-11443	t0	-0.0737	-0.0401	0.028	0.0059	0.0506	-0.0049	-0.0182	0.0025	-0.0689	0.0234	-0.0001	-0.0235	0.0425	0.0166
	t24	-0.0455	-0.0374	0.0855	-0.0144	0.1377*	0.0282	-0.0236	0.0105	-0.0594	-0.0106	0.0117	-0.0077	0.0021	0.0129
X-11444	t0	-0.0441	0.018	-0.021	0.3667*	0.0144	-0.0457	-0.0301	0.0317	-0.0237	0.0076	-0.0496	-0.1033*	-0.0234	0.0332
	t24	-0.007	-0.0041	-0.0073	0.3830*	0.0014	-0.0272	-0.0596	-0.0067	0.0145	0.0448	-0.0137	-0.0762	-0.0201	0.0096
X-11445	t0	-0.0711	-0.0191	0.0516	0.0234	0.0089	0.0205	0.017	-0.0079	-0.0019	0.0253	-0.0478	-0.1032*	0.4699*	-0.025
	t24	-0.0427	-0.0373	0.0207	0.1126*	-0.0116	0.0052	-0.001	-0.0082	-0.0068	0.0171	-0.0333	-0.0173	0.0985	0.0097
X-11450	t0	-0.0641	0.0085	-0.017	0.0173	0.0261	0.0047	-0.0267	-0.0089	-0.1266*	0.0058	-0.0412	-0.0152	0.0076	-0.0063
	t24	-0.0174	-0.0474	-0.0056	0.0219	0.0658	0.0479	-0.0303	-0.0033	-0.0631	-0.0301	-0.0221	-0.027	-0.0003	-0.0026
X-11452	t0	-0.0043	-0.0223	-0.0172	0.1655*	-0.0044	-0.0041	0.0092	-0.0292	-0.0045	0.019	0.0026	0.1081*	-0.0318	0.0229
	t24	0.0637	-0.0553	-0.0279	0.0544	-0.0107	-0.0409	-0.0017	-0.0372	0.0073	0.0004	0.0061	0.0085	-0.0331	-0.006
X-11469	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0217	0.0013	0.0404	-0.0317	-0.0129	-0.045	0.0362	0.018	-0.1023*	0.0369	-0.0218	-0.0131	-0.0279	-0.0319
X-11470	t0	-0.0224	0.0085	-0.0224	0.1568*	-0.0102	-0.0907	-0.032	0.0083	-0.0849	0.0595	-0.025	-0.0163	-0.0308	-0.0045
	t24	-0.0094	-0.0102	-0.0238	0.0914	0.0049	-0.0148	-0.0227	0.0069	-0.0159	0.0438	-0.0129	-0.0229	-0.0176	-0.0021
X-11476	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0025	0.2210*	0.0128	-0.0319	-0.0074	0.0124	0.0088	0.0174	0.0053	0.0867	0.0154	-0.0342	-0.0113	-0.2373*
X-11478	t0	0.056	0.0505	-0.004	-0.0109	-0.0923	0.0182	-0.0119	0.0218	-0.0203	0.0122	-0.0275	-0.0759	0.0119	-0.0992
	t24	0.0585	0.0541	-0.0586	-0.0133	-0.0141	0.0537	-0.002	-0.0168	0.0213	0.0419	0.034	0.0122	-0.0625	-0.0165
X-11483	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0456	-0.0066	-0.0484	0.0009	0.001	0.0071	0.0107	-0.0066	0.0715	-0.0006	-0.0089	-0.0125	-0.0232	-0.0435
X-11490	t0	-0.0052	-0.0033	0.2171*	-0.0196	0.0032	-0.006	0.2967*	-0.0108	-0.0634	-0.007	-0.0041	-0.0111	-0.0081	-0.0096
	t24	-0.0026	-0.029	0.0942	-0.0186	0.0133	0.0111	0.2498*	-0.0339	-0.0334	-0.0302	0.0061	-0.0083	-0.0321	-0.0202
X-11491	t0	0.02	-0.031	-0.0054	-0.0233	0.1374*	-0.0094	0.1636*	-0.0176	0.0015	-0.0622	-0.0241	-0.0329	-0.0479	0.1075*
	t24	-0.0026	-0.0229	-0.0128	-0.0021	0.2393*	-0.0022	0.1283*	-0.0175	-0.005	-0.0311	-0.0159	-0.0019	-0.0456	0.1866*
X-11497	t0	0.0035	0.031	0.0022	0.0035	-0.0202	0.0274	-0.0483	0.0576	-0.0556	0.049	-0.0382	-0.0147	-0.0308	-0.0588
	t24	0.0078	-0.0074	0.1409*	-0.0013	-0.1457*	0.0382	-0.0689	0.0209	0.0456	0.0127	0.0218	-0.0033	-0.0069	0.0126
X-11510	t0	-0.0059	-0.0462	-0.0412	0.0993	0.0314	0.0135	-0.0377	0.0142	-0.0421	-0.0455	-0.0367	0.0296	0.0122	-0.0128
	t24	0.0157	-0.1190*	-0.0295	0.0214	0.0587	0.0828	-0.0308	0.011	-0.0082	-0.0502	0.0017	-0.0329	0.0013	-0.005
X-11513	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0016	0.0248	0.0008	-0.0313	0.0016	-0.0291	0.0745	-0.0378	-0.0033	-0.0064	-0.0098	0.0049	-0.0406	-0.0235
X-11521	t0	-0.0412	-0.1049*	0.0799	-0.0348	0.1547*	-0.0074	0.0124	0.1235*	0.0169	-0.0833	-0.0259	-0.0137	-0.0384	0.0029
	t24	0.0144	-0.0436	0.0002	0.0153	0.4784*	-0.0001	0.0177	-0.0136	-0.0019	-0.0088	-0.0215	-0.0222	-0.0472	0.0016
X-11522	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0253	-0.0028	-0.0402	-0.0121	0.0981	-0.0233	-0.0003	0.0018	0.0274	0.0224	0.5320*	-0.0074	-0.0031	0.0073
X-11529	t0	-0.0029	-0.0189	0.0017	0.0112	0.0043	-0.0013	-0.0051	-0.0062	-0.0467	-0.0164	0.0497	0.0007	-0.0178	0.0317
	t24	-0.003	0.0107	-0.0108	0	0.0012	0.02	-0.0188	0.0213	0.0019	-0.0396	0.031	0.0183	-0.0208	0.0141
X-11530	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0119	0.0062	-0.03	-0.0171	0.1315*	-0.0198	-0.0004	0.0017	0.0119	0.0156	0.5309*	-0.0073	-0.0125	0.015

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-11533	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.006	-0.0141	0.0164	-0.0077	0.0017	0.0743	0.042	-0.0077	0.1895*	-0.0285	0.0093	-0.0123	-0.0407	0.0663
X-11538	t0	-0.0035	0.0031	-0.0059	-0.0177	0.2549*	-0.0549	-0.0005	-0.0113	0.0653	0.0084	0.5299*	-0.0181	0.0456	-0.0521
	t24	-0.0155	0.0001	-0.0161	-0.0052	0.1119*	-0.0278	-0.0068	-0.0054	-0.0125	-0.0433	0.6269*	-0.011	0.0397	0.0047
X-11542	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.1577*	0.0328	-0.0867	-0.1584*	0.0039	0.0115	-0.0484	0.0094	-0.0489	0.0123	-0.0237	-0.0377	0.0265	0.0049
X-11546	t0	-0.0044	-0.0266	0.1463*	0.0055	-0.028	0.1416*	-0.007	-0.0008	-0.0086	0.0295	0.4209*	0.0018	-0.0062	0.0095
	t24	-0.0061	-0.0168	0.1177*	0.0094	-0.0207	0.2318*	-0.0035	0.0006	-0.0043	0.0287	0.4042*	0.0033	-0.0029	0.0115
X-11550	t0	-0.0039	0.0027	0.0106	-0.0006	-0.005	-0.0254	0.005	0.1582*	-0.0746	0.0866	-0.0163	0.0687	-0.041	-0.0455
	t24	-0.028	0.085	0.1038*	-0.0443	-0.0703	0.0462	0.1056*	0.0282	-0.0068	0.0109	-0.011	-0.014	-0.0891	-0.0291
X-11564	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0037	0.0118	-0.0375	-0.0109	0.1400*	0.062	0.0144	-0.0002	0.0055	-0.055	0.1213*	0.0058	0.031	0.0661
X-11593	t0	-0.0454	-0.1698*	0.0245	0.0172	0.0905	-0.0676	0.0694	-0.0005	-0.0472	0.0244	-0.0239	0.0496	-0.1749*	0.0243
	t24	-0.0432	-0.2557*	0.0145	0.0183	0.0436	-0.004	0.1805*	-0.0202	0.0161	-0.0034	0.0139	-0.0257	-0.3715*	0.1546*
X-11687	t0	-0.0216	-0.0626	0.0046	0.0262	0.4046*	-0.0612	0.0358	-0.004	-0.0242	-0.0276	-0.0322	0.0846	-0.0263	0.1461*
	t24	-0.0112	-0.0373	-0.0061	0.0233	0.4418*	-0.0118	0.0817	-0.0095	-0.0095	-0.0314	-0.0035	0.0333	-0.033	0.0957
X-11727	t0	0.0177	-0.0186	-0.0019	0.0964	-0.0841	0.0365	-0.1434*	-0.0471	-0.0032	-0.0145	-0.0101	-0.0143	0.0158	0.0155
	t24	0.0058	-0.2040*	-0.0118	0.2451*	-0.0047	-0.0088	0.0065	-0.003	0.0082	-0.0139	0.0107	-0.1399*	-0.0087	0.0433
X-11786	t0	0.013	0.1644*	-0.0048	-0.0235	-0.0287	0.0361	-0.0111	-0.1329*	0.0325	0.0253	-0.0089	-0.0139	-0.0037	0.0286
	t24	0.0991	0.0424	-0.0354	-0.0059	-0.0574	-0.0161	0.004	-0.0137	0.0347	0.0532	-0.0202	-0.0008	-0.0018	0.0201
X-11787	t0	0.0017	0.0066	-0.0485	-0.0003	0.0296	0.013	-0.0704	-0.0153	-0.0753	0.0156	-0.1859*	0.015	-0.0378	0.0223
	t24	-0.0056	0.012	-0.0477	0.0007	0.0094	0.0135	-0.045	0.0079	-0.0319	0.0178	-0.0536	0.0077	-0.1183*	0.0217
X-11793	t0	-0.0076	0.0827	-0.0334	-0.0044	0.0033	-0.0271	-0.0097	0.0321	0.0038	0.2368*	0.0209	0.003	-0.003	-0.0151
	t24	0.0086	0.1443*	-0.1042*	-0.0598	0.0209	-0.075	0.0189	0.0054	-0.02	0.0059	0.1893*	-0.032	-0.0039	0.0103
X-11795	t0	-0.0181	0.0057	-0.018	-0.0041	0.0375	-0.0025	0.0149	-0.0432	0.0444	0.0071	0.1637*	-0.0222	-0.056	0.0098
	t24	0.007	-0.0127	-0.0382	0.0481	0.0006	-0.0106	-0.0084	-0.0618	-0.0173	0.0038	0.053	-0.0021	-0.0364	-0.0462
X-11799	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0004	0.003	0.0178	-0.0374	0.0132	0.0076	-0.0027	-0.0244	0.0162	-0.0226	-0.0065	-0.0023	-0.0274	-0.0155
X-11809	t0	-0.0098	0.0287	0.007	-0.078	0.0313	-0.0726	0.0336	-0.0041	0.0092	-0.0252	-0.0169	-0.005	0.1218*	-0.0319
	t24	0.0592	0.0182	0.0327	-0.0937	-0.0145	0.1527*	0.0125	-0.0154	-0.1166*	-0.0518	-0.0161	-0.0008	0.0053	0.017
X-11818	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0383	0.0494	-0.0255	0.054	-0.016	0.0575	-0.0242	-0.017	-0.0028	0.0459	-0.0268	0.0306	-0.0044	-0.0133
X-11826	t0	-0.0277	-0.0401	-0.0149	0.0562	0.3104*	-0.0179	-0.0318	-0.0212	-0.0169	-0.0026	-0.0891	-0.0219	-0.02	0.0126
	t24	0.0145	-0.1434*	0.003	0.0242	0.0769	0.0923	-0.0107	-0.0269	-0.0146	-0.0216	-0.0164	-0.04	-0.0474	-0.0499
X-11832	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0304	-0.0099	0.1276*	0.0164	-0.0198	-0.0187	0.2244*	-0.0033	-0.0456	-0.0189	-0.0127	-0.0462	-0.0102	-0.0041
X-11838	t0	-0.0571	0.0532	-0.004	0.0204	-0.0041	-0.0172	0.0628	-0.0363	-0.0591	0.0382	0.0188	0.0137	0.0163	-0.0069
	t24	-0.3379*	0.0413	0.0056	0.0319	-0.0529	-0.0728	-0.0138	0.0038	-0.0264	0.0043	0.0212	0.0032	0.0028	-0.0157
X-11843	t0	0.0074	-0.0285	-0.0037	0.0131	0.0055	-0.0075	0.0265	-0.0042	-0.0031	-0.0261	-0.0753	0	-0.0178	-0.0149
	t24	0.0791	-0.0426	-0.0025	0.0002	-0.028	0.0016	0.024	-0.0219	0.0471	-0.0641	-0.0215	-0.0215	-0.0419	-0.0092
X-11850	t0	0.0405	-0.0088	-0.0265	-0.0088	-0.0032	0.0017	-0.0048	0.0123	-0.0227	0.0055	-0.1180*	0.0023	-0.0285	-0.0389
	t24	0.2236*	-0.0306	0.0001	-0.0095	-0.0037	0.0102	-0.0207	-0.01	0.0264	-0.0315	-0.0237	-0.0078	-0.0405	-0.0153
X-11853	t0	-0.0271	0.0303	0.0194	-0.0008	0.0007	-0.1743*	0.0037	0.0267	-0.0594	0.0244	-0.0154	0.0373	0.0036	-0.0026
	t24	-0.0166	0.1202*	0.0264	-0.0245	-0.0238	0.0137	0.0117	0.0102	0.0848	0.0175	-0.0127	-0.0498	-0.0206	-0.0671
X-11859	t0	0.0069	0.0113	-0.0013	-0.0066	0.0092	0.0067	0.0106	0.0526	-0.1087*	0.2857*	-0.0059	0.054	-0.0501	0.003
	t24	-0.0312	0.1617*	0.0357	-0.0368	-0.092	0.2397*	0.0103	0.0168	0.0125	0.0348	-0.0092	0.0114	-0.0307	-0.0082
X-11861	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0197	-0.012	-0.0094	0.0334	0.0004	-0.0083	0.0381	0.0093	0.0266	0.0724	0.0193	0.0246	-0.048	-0.0608
X-11868	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0486	0.0177	-0.0144	-0.0259	0.0981	0.0969	0.0505	0.0404	-0.0281	0.0042	0.1049*	0.0035	-0.0483	0.0261

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-11880	t0	0.0141	0.0529	-0.0253	-0.0424	0.0096	-0.0051	0.0281	-0.064	0.0062	-0.0291	0.0049	0.0022	0.0025	-0.02
	t24	0.0153	0.0053	0.0103	-0.0377	-0.024	0.0036	0.0155	0.0179	0.0086	-0.0288	0.3465*	0.0033	-0.0197	-0.0549
X-11945	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0471	-0.0076	0.0066	0.0226	0.3534*	0.0229	0.0486	-0.0403	0.1321*	0.013	-0.0344	-0.0293	-0.0027	0.0757
X-11977	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0324	0.0151	-0.0168	0.035	0.011	-0.0016	0.0094	-0.006	0.0275	0.081	0.0043	-0.0061	-0.0059	0.0312
X-12007	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0402	-0.0097	-0.0238	-0.0271	0.0141	0.0033	-0.0162	-0.0212	0.0827	-0.1068*	0.005	0.3133*	0.0378	-0.0065
X-12029	t0	-0.0375	0.0671	0.0048	-0.0373	0.0254	0.0184	0.068	0.0255	0.0025	0.2303*	-0.0057	0.031	-0.0221	0.0179
	t24	0.1425*	-0.0425	0.0094	0.0154	-0.0257	0.1405*	0.2205*	-0.0017	0.015	-0.0041	0.0116	0.1108*	-0.0137	0.004
X-12038	t0	-0.0014	0.018	-0.018	0.0476	-0.058	0.0152	-0.0167	0.0573	-0.0109	0.1908*	-0.0844	0.0311	-0.0554	-0.0904
	t24	-0.0345	0.017	0.043	0.0078	-0.1344*	0.1344*	-0.0045	0.0081	0.0361	0.0281	0.0148	0.3674*	0.0204	0.0292
X-12051	t0	-0.0098	0.1451*	-0.0093	-0.0148	-0.0028	-0.0371	0.0027	-0.0659	0.0456	-0.1318*	-0.011	-0.0084	0.0116	-0.0038
	t24	0.1063*	0.0252	-0.2620*	0.0677	-0.0733	0.0106	0.0554	-0.0387	-0.0012	0.0071	-0.0135	-0.0008	0.0175	-0.0101
X-12092	t0	-0.0267	-0.0196	0.0018	0.0146	0.0317	-0.0159	-0.0187	0.0112	0.0312	0.2612*	-0.0235	-0.0113	-0.0169	0.0298
	t24	-0.0168	-0.0307	0.0215	-0.0059	0.0331	-0.0096	-0.0094	-0.0086	0.1425*	0.2394*	-0.0125	-0.0036	-0.0362	0.0325
X-12094	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0113	-0.1024*	0.0257	-0.0088	0.3838*	0.0009	0.0253	-0.0116	0.0031	-0.0252	-0.0237	-0.0113	-0.0529	0.0047
X-12095	t0	0.0318	-0.0337	-0.0147	0.0069	0.5204*	0.0105	0.0127	0.0076	-0.0333	-0.0134	-0.02	0.0048	0.013	0.0088
	t24	-0.0054	-0.1614*	0.0234	-0.0226	0.3353*	0.0104	-0.0053	-0.0232	0.0049	-0.0001	-0.0083	-0.008	-0.0603	0.0099
X-12100	t0	-0.0129	-0.0443	0.0409	-0.0359	0.0882	-0.0521	0.3120*	-0.0145	-0.0064	-0.0015	0.0482	-0.0522	0.1136*	0.0029
	t24	-0.015	-0.0405	0.0832	-0.0127	0.036	-0.0358	0.2082*	-0.0234	0.0268	0.0008	0.032	-0.1562*	-0.0099	-0.0397
X-12101	t0	0.006	-0.01	-0.0213	-0.012	0.0322	0.0061	-0.0769	0.0006	0.0069	-0.0753	-0.0058	-0.2450*	0.6052*	0.0213
	t24	-0.0049	-0.0027	-0.0237	-0.0185	0.1395*	0.0077	-0.0107	-0.026	0.0176	-0.0822	0.0111	-0.0258	0.0738	0.0664
X-12104	t0	0.0019	-0.0127	-0.0049	0.008	0.3580*	-0.0214	-0.0533	0.0691	-0.006	0.0224	-0.0805	-0.0256	-0.0139	0.0013
	t24	-0.0154	-0.1068*	0.0339	0.0109	0.2494*	0.0036	-0.021	0.0328	0.0252	-0.0201	-0.0246	-0.0056	-0.0083	0.016
X-12117	t0	-0.0268	-0.0203	0.0221	0.0152	0.5255*	-0.0085	-0.0086	-0.0169	-0.0011	0.0867	-0.043	-0.0121	0.0191	0.033
	t24	-0.0099	-0.0619	0.0066	0.024	0.4096*	-0.0207	-0.0113	-0.014	0.0482	0.0295	-0.0003	-0.0218	-0.0437	0.0621
X-12125	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0215	-0.0133	-0.0046	-0.019	0.032	0.0184	-0.0071	0.0142	0.074	-0.1292*	-0.0455	-0.0036	-0.0107	0.0417
X-12199	t0	-0.0056	0.0052	-0.038	-0.0067	0.0564	-0.0115	-0.0033	-0.0215	-0.0662	-0.0236	-0.0349	0.0055	-0.0233	0.1197*
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12206	t0	-0.0078	-0.0538	-0.0539	0.0424	0.2391*	-0.026	-0.0031	0.031	-0.042	-0.0041	0.0063	0.1054*	-0.0967	0.0189
	t24	-0.0151	-0.0651	-0.0374	0.0262	0.1040*	-0.0457	-0.0263	0.0437	-0.0155	-0.05	-0.0016	-0.0296	-0.0461	0.0062
X-12217	t0	0.0134	-0.0473	-0.0447	0.015	0.1045*	-0.0081	0.0041	-0.0172	-0.0037	0.0331	-0.0383	0.0142	-0.0572	0.1258*
	t24	-0.0229	-0.0949	0.0041	0.0181	0.1137*	0.0395	-0.0084	-0.0232	0.0806	0.0006	0.0567	-0.0071	-0.0134	0.0053
X-12244	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0154	0.1019*	0.0077	-0.0212	-0.0485	0.0155	-0.024	0.0463	-0.0555	0.0138	-0.0103	-0.0278	-0.0232	-0.032
X-12261	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.1267*	-0.0599	0.031	-0.0387	-0.0173	-0.0041	0.0039	-0.0186	0.0076	-0.0136	-0.022	-0.0272	-0.0027	0.0066
X-12405	t0	-0.0158	-0.0089	-0.0668	0.1765*	-0.0003	-0.0065	0.003	0.0561	-0.091	-0.0111	-0.073	-0.0076	-0.0257	0.0889
	t24	-0.0108	-0.0483	-0.0103	0.0326	0.0375	0.0048	0.0276	-0.0161	0.0641	-0.1220*	-0.0407	-0.028	-0.1026*	0.0421
X-12421	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0652	0.0041	-0.1834*	0.014	-0.0271	0.0241	0.0197	-0.0222	-0.0234	-0.0117	-0.0198	0.0049	-0.0045	-0.0237
X-12422	t0	-0.005	0.0884	-0.0313	-0.005	-0.0037	-0.0295	0.0248	-0.0763	0.1231*	-0.2179*	-0.0134	-0.0196	0.0413	-0.0041
	t24	0.0558	-0.0062	-0.2529*	0.0467	-0.0557	-0.0007	0.0426	-0.0036	-0.0451	0.027	-0.0246	0.0457	-0.0142	-0.0121
X-12428	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0179	-0.0259	-0.0283	0.1021*	-0.0145	-0.0115	0.0594	-0.0234	0.2056*	-0.0957	-0.0094	-0.0118	-0.0582	-0.0196
X-12440	t0	-0.0083	0.0206	-0.0009	-0.0068	0.0119	0.0106	-0.0145	-0.0296	-0.1282*	0.0203	-0.0723	0.0477	-0.0205	-0.069
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-12442	t0	0.0216	-0.0028	-0.013	-0.0316	0.1779*	-0.0371	0.0124	0.0197	0.0401	0.0035	0.3026*	-0.0015	0.0492	-0.0202
	t24	0.0125	-0.005	-0.0169	-0.0263	0.0399	-0.0781	0.0078	-0.0061	0.0124	0.0065	0.4420*	-0.0269	0.0701	0.067
X-12443	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0259	0.0036	0.0029	-0.0119	-0.0448	0.012	0.0633	0.001	-0.0067	0.1447*	-0.0054	0.2076*	0.0155	0.0743
X-12450	t0	0.0104	-0.0324	-0.0086	-0.0078	0.0386	-0.0271	0.0552	0.2989*	-0.0243	0.0161	-0.0031	0.0287	0.0124	-0.0005
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12458	t0	0.0236	-0.0777	0.0105	-0.0339	0.0185	-0.0136	0.035	-0.1415*	-0.0344	-0.014	0.006	-0.0478	0.0156	-0.0285
	t24	0.0264	0.0058	-0.0163	-0.1551*	0.0436	-0.0394	0.0996	0.0117	-0.0154	-0.1147*	0.3519*	0.0033	0.0315	0.0552
X-12465	t0	-0.008	-0.0199	-0.0336	0.0437	0.0414	0.0408	-0.0167	-0.0116	0.0396	-0.1781*	-0.029	-0.0431	0.0079	0.0038
	t24	-0.0623	-0.0409	0.011	0.0181	0.1666*	-0.013	0.0886	-0.046	0.0373	-0.007	-0.0141	-0.0575	0.0463	0.017
X-12510	t0	0.0784	0.0275	-0.0455	-0.0715	-0.0201	0.0227	-0.0068	-0.0163	-0.1143*	0.0212	0.0225	0.0273	-0.0057	-0.0458
	t24	0.0055	0.0238	-0.0549	-0.007	0.0156	0.0039	0.007	0.0074	-0.0092	0.0609	0.4793*	0.0463	-0.0095	-0.0325
X-12644	t0	0.2006*	0.0393	-0.0175	-0.0615	-0.0062	-0.0058	-0.0225	0.0406	0.0125	-0.0212	-0.0829	0.0014	-0.066	-0.1856*
	t24	0.0491	-0.0121	-0.0163	0.0307	-0.1357*	-0.0528	-0.0773	0.0125	0.2881*	0.0155	-0.0577	-0.0348	-0.1278*	-0.0062
X-12660	t0	0.004	0.1429*	-0.0115	-0.0117	-0.0138	-0.0562	0.016	-0.0855	0.0531	-0.2229*	-0.018	-0.0136	0.0291	-0.0078
	t24	0.0528	-0.0301	-0.0935	0.078	-0.0475	-0.0078	0.0925	-0.0122	-0.0048	-0.0083	-0.0152	-0.0203	0.0044	-0.0253
X-12688	t0	-0.0655	0.0216	0.0124	-0.0149	0.3723*	0.0205	-0.0064	-0.0215	-0.0117	-0.0237	0.0127	-0.007	-0.0084	-0.0219
	t24	-0.011	-0.0028	0.0387	-0.0849	0.2304*	0.0358	-0.0059	-0.0094	-0.0151	-0.0242	0.0455	-0.0323	-0.0204	-0.003
X-12690	t0	-0.0109	-0.0075	0.0133	0.0049	0.6056*	-0.0131	-0.02	0.0193	0.0013	-0.009	-0.1523*	0.0048	-0.0184	-0.0079
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12695	t0	-0.0144	-0.0364	0.0087	-0.0009	0.1241*	-0.0685	0.0304	-0.0166	-0.042	-0.039	0.2769*	-0.0019	0.0197	0.0486
	t24	0.0045	-0.0495	0.0032	-0.0019	0.3014*	-0.0364	0.0251	-0.0106	0.0015	-0.025	0.4829*	-0.0358	-0.0208	0.0335
X-12707	t0	-0.0209	-0.0453	-0.0142	0.0124	0.1611*	-0.0459	-0.005	0.0106	-0.0003	-0.1169*	-0.0091	-0.0105	-0.0339	0.3712*
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12742	t0	0.0106	-0.0178	-0.0103	0.0162	-0.0071	-0.0314	-0.0239	0.0092	0.0225	0.0019	-0.0231	-0.1505*	0.4343*	0.3158*
	t24	-0.0136	-0.0635	-0.011	0.1023*	0.0279	0.0031	0.0335	-0.0355	0.1613*	-0.0119	0.0021	-0.1212*	0.0427	0.1786*
X-12749	t0	-0.0012	-0.001	-0.0416	0.0151	0.3700*	-0.0059	-0.0088	0.0175	-0.0116	0.0154	-0.0203	0.0227	-0.016	-0.0245
	t24	-0.0066	0.0063	-0.043	-0.017	0.1041*	0.0407	-0.0086	-0.0018	0.0062	-0.0082	-0.1555*	0.0107	-0.0037	0.0931
X-12756	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.1943*	0.2632*	-0.0111	0.076	-0.0628	-0.0022	0.0299	-0.0765	0.0108	0.0211	-0.0117	-0.0109	-0.0356	-0.0203
X-12775	t0	-0.058	0.0696	-0.0125	0.0069	0.0107	0.0352	-0.0238	0.0851	0.0382	0.0293	-0.0302	-0.0252	0.0383	0.0173
	t24	-0.0415	-0.0034	0.1887*	-0.0046	0.0003	-0.0092	0.0085	-0.0311	0.069	0.1280*	-0.0263	-0.0627	0.2507*	0.0081
X-12776	t0	-0.0659	0.0369	-0.007	0.0045	0.0106	0.0138	0.0137	0.0069	0.1076*	0.2226*	-0.0055	0.0054	0.0053	0.0199
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12792	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0034	0.0296	-0.0509	0.0175	-0.0143	0.0054	0.0486	-0.0004	-0.0081	-0.0001	-0.0205	-0.009	-0.0268	0.0373
X-12794	t0	-0.1020*	-0.0011	0.1800*	0.0072	0.2975*	-0.0404	0.0018	0.0154	-0.0042	-0.0633	-0.0881	-0.0163	0.0118	0.1174*
	t24	-0.0683	-0.0382	0.1906*	0.0177	0.0428	-0.0098	0.0534	-0.0031	0.0282	-0.0573	-0.0048	-0.0618	0.0143	0.0129
X-12802	t0	-0.0759	0.0072	0.012	0.0019	0.4061*	-0.0181	0.0529	-0.0126	-0.0288	-0.0453	-0.0425	-0.0309	-0.001	0.0498
	t24	-0.0227	-0.0377	-0.002	0.0593	0.4713*	-0.0132	0.1150*	-0.0186	0.0066	-0.0023	-0.0058	-0.0306	-0.042	-0.0086
X-12822	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0216	-0.0128	0.0151	-0.0068	0.2053*	0.2259*	-0.0075	-0.0261	0.0173	-0.0554	-0.0174	-0.0139	-0.0381	0.0692
X-12844	t0	-0.0512	-0.0015	-0.0466	0.4457*	0.0278	0.0098	-0.0467	0.0571	-0.0552	0.0106	-0.0293	-0.0849	-0.0208	0.0009
	t24	-0.005	-0.015	-0.0203	0.3986*	0.0156	-0.0282	-0.0564	-0.0106	0.0255	0.0197	0.0015	-0.0701	-0.0244	0.0068
X-12846	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0603	-0.0338	-0.0203	0.0765	0.2384*	0.0039	-0.0202	-0.0185	0.0085	-0.0264	-0.0264	-0.0305	-0.0161	0.0678
X-12849	t0	-0.0103	-0.0327	-0.0196	0.2346*	0.0253	-0.0386	0.0697	-0.0089	0.0038	-0.0071	0.0339	-0.0127	-0.0294	0.0419
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-12850	t0	-0.025	-0.013	0.0198	-0.0299	0.0944	0.0176	0.0263	-0.0211	-0.1628*	0.0011	0.0451	0.018	0.0176	0.016
	t24	-0.0052	-0.0078	0.0059	-0.0198	0.1345*	0.0489	-0.0101	-0.015	-0.0479	-0.0046	0.0087	0.0055	0.0011	0.0565

Biochemical Name	Time Point	SIRS	UCS	SS	SShock	SNS	*S. aureus*	*S. pneumonia*	*E. coli*	Gender	Race	Liver Disease	Hepatitits	Alcohol Abuse	Neoplastic Disease
X-12851	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0067	-0.0289	-0.0051	0.009	0.0219	0.1033*	-0.0043	-0.0141	-0.0244	-0.1297*	-0.0085	-0.0003	0.1727*	0.0216
X-12855	t0	0.0136	-0.0249	-0.0058	-0.0238	0.3531*	-0.0084	0.0443	-0.0323	0.1351*	-0.0608	-0.0068	-0.0556	0.0143	-0.0175
	t24	0.0237	-0.0536	0.0026	0.0099	0.4667*	-0.0154	0.0101	-0.0212	0.0171	-0.0259	0.0216	-0.0326	0.0098	0.0198
X-12860	t0	0.0228	-0.0197	-0.0115	-0.0332	0.1996*	-0.0185	-0.0085	-0.0014	0.0917	-0.1229*	-0.0205	-0.0343	0.0005	-0.0238
	t24	-0.0134	-0.0215	-0.0251	0.0131	0.2307*	-0.0197	0.0539	-0.0201	0.0084	-0.1058*	0.013	-0.0459	-0.02	0.044
X-12990	t0	0.0198	-0.0001	-0.0292	-0.0769	0.0487	-0.0908	-0.0088	0.0201	0.0168	0.068	0.0107	0.0081	-0.016	-0.1613*
	t24	0.0976	-0.0041	0.0092	-0.0737	-0.0086	-0.0334	-0.0206	0.0027	0.006	-0.0379	0.0308	-0.0064	0.1651*	0.0215
X-13429	t0	-0.0548	0.015	-0.0775	0.1713*	-0.0218	0.0037	0.1013*	-0.0108	0.0158	-0.0322	-0.0444	0.0027	-0.0302	0.0078
	t24	-0.0049	0.0065	-0.0311	0.1930*	-0.0198	0.0366	0.0956	0.0018	0.0139	-0.0913	-0.0124	0.0135	-0.0032	-0.0003
X-13435	t0	0.0274	-0.0615	-0.0135	-0.0187	0.2643*	-0.0164	-0.0094	-0.0323	0.0102	0.0054	-0.0549	-0.0167	0.011	-0.0061
	t24	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
X-13465	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.0137	-0.0796	0.0031	0.0008	0.2887*	0.0476	-0.005	-0.0196	0.0174	-0.0906	-0.0655	-0.0106	-0.0645	0.0538
X-13553	t0	-0.0005	-0.0264	0.0053	0.0017	0.6056*	-0.026	0.0059	-0.0065	-0.0336	-0.0811	0.006	-0.0071	0.012	0.1006*
	t24	-0.0209	-0.0314	-0.017	0.0097	0.4284*	-0.0117	0.0031	-0.0125	-0.0118	-0.05	0.0341	-0.0159	0.005	0.0682
X-13727	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	-0.0098	-0.0185	-0.0034	0.2732*	0.0058	-0.0111	0.0149	-0.0216	-0.0015	-0.0062	-0.0108	-0.0507	-0.0258	0.0147
X-14588	t0	-0.0586	0.0292	-0.0526	0.0061	0.1869*	-0.024	0.0148	-0.0098	-0.0251	-0.0243	0.0194	0.0309	0.0399	0.0312
	t24	-0.1783*	-0.0213	-0.0273	0.0508	0.0387	-0.0076	-0.0094	-0.0111	0.0035	-0.0122	0.04	-0.1118*	-0.0332	0.012
X-14625	t0	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
	t24	0.1960*	-0.0072	-0.0196	0.0178	-0.0293	-0.0029	-0.014	0.0017	0.0697	-0.0068	-0.019	-0.0505	0.0083	0.0212
X-14626	t0	-0.0501	0.0537	-0.0322	0.072	-0.0608	-0.0343	0.1368*	0.0014	-0.0081	0.0049	-0.0279	0.0404	-0.0296	-0.0045
	t24	-0.0213	-0.004	-0.0129	0.1731*	-0.0056	0.022	0.2667*	0.0167	0.0265	-0.0737	0.0096	-0.0273	-0.0547	0.0042
X-14658	t0	-0.0024	-0.0235	0.1746*	-0.0295	0.0192	-0.0053	0.2604*	-0.0085	-0.0609	0.0006	0.0303	-0.0106	0.0007	-0.0006
	t24	-0.0448	-0.0286	0.0231	-0.0377	0.1287*	0.0206	0.0065	-0.0152	-0.0581	-0.0298	0.0235	-0.0065	0.0008	0.0449
X-14662	t0	-0.0035	-0.014	0.1298*	0.0018	-0.0144	0.1912*	-0.0008	0.0052	-0.0027	0.0245	0.3807*	0.0025	-0.0032	0.0077
	t24	-0.0042	-0.0176	0.0877	0.0021	-0.0187	0.1936*	-0.0001	0.0015	-0.0068	0.0313	0.4119*	0.0046	-0.0021	0.0116
X-14663	t0	-0.0104	-0.0201	0.1360*	0.0013	-0.0102	0.1466*	-0.0018	0.001	-0.0117	0.0153	0.3871*	-0.0003	-0.0029	0.0182
	t24	-0.0108	-0.0107	0.1249*	0.0005	-0.015	0.2235*	0.0054	0.0089	-0.0038	0.0342	0.4104*	0.0013	-0.0025	0.0246

SIRS - systemic inflammatory response; UCS - uncomplicated sepsis; SS - severe sepsis; SSHock - septic shock; SNS - sepsis nonsurvivor

Table S6. Combined Calibration Spiking Solution Concentration [ug/mL] in acetonitrile/water (1:1)

Biochemical	Std A	Std B	Std C	Std D	Std E	Std F
4-Methyl-2-oxopentanoate	1000	2000	5000	20000	50000	100000
N-Acetyl-threonine	10	20	50	200	500	1000
3-Methoxy-L-tyrosine	5	10	25	100	250	500
HPLA	50	100	250	1000	2500	5000
Pseudouridine	20	40	100	400	1000	2000
1-Linoleoyl-GPC	2.5	5	25	40	70	100
Butyroylcarnitine	2	4	10	40	100	200
2-Methylbutyroylcarnitine	4	8	20	80	200	400
Hexanoylcarnitine	2	4	10	40	100	200
4-cis-Decenoylcarnitine	40	80	200	800	2000	4000

Table S7. Monitored Ion Masses for Quantitation

Compound	Parent Ion (Q1)	Product Ion (Q3)
Butyroylcarnitine	232.2 ± 0.5	85.0 ± 0.5
Butyroylcarnitine-D_3 (IS)	235.2 ± 0.5	85.0 ± 0.5
2-Methylbutyorylcarnitine	246.2 ± 0.5	85.0 ± 0.5
2-Methylbutyroylcarnitine-D_3 (IS)	249.2 ± 0.5	85.0 ± 0.5
Hexanoylcarnitine	260.2 ± 0.5	85.0 ± 0.5
Hexanoylcarnitine-D_3 (IS)	263.2 ± 0.5	85.0 ± 0.5
4-cis-Decenoylcarnitine	314.2 ± 0.5	85.0 ± 0.5
4-cis-Decenoylcarnitine-D_3 (IS)	317.2 ± 0.5	85.0 ± 0.5
4-Methyl-2-oxopentanoate	309.2 ± 0.5	182.0 ± 0.5
N-Acetylthreonine	160.1 ± 0.5	74.1 ± 0.5
3-Methoxytyrosine	210.1 ± 0.5	193.1 ± 0.5
HPLA	181.1 ± 0.5	163.1 ± 0.5
Pseudouridine	243.1 ± 0.5	153.1 ± 0.5
1-Linoleoyl-GPC	520.5 ± 0.5	184.2 ± 0.5
Arachidonoyl-GPC	544.5 ± 0.5	184.2 ± 0.5
4-Methyl-2-oxopentanoate-d_3 (IS)	313.2 ± 0.5	182.0 ± 0.5
N-Acetylthreonine-d_5 (IS)	165.1 ± 0.5	76.1 ± 0.5
3-Methoxytyrosine-d_3 (IS)	213.1 ± 0.5	196.1 ± 0.5
Uridine $^{13}C_5$ (IS)	248.1 ± 0.5	205.1 ± 0.5
Linoleoyl-GPC d_3 (IS)	529.5 ± 0.5	193.2 ± 0.5

Table S8. Plasma proteins detected with high confidence. Two MS-based methods (log-transformed, quantile-normalized AUC of chromatograms after background noise removal and spectral counting) following immunodepletion of abundant proteins.

t_0 protein ID	t_{24} Protein ID	Gene Symbol	Annotation	t_0 Best Sequence	t_{24} Best Sequence	Priority score t_0	t_{24} Priority score	AUC t_0 ID	AUC t_{24} ID	t_0 Spectral Count ID	t_{24} Spectral counts ID	t_0 corr. (r^2)	t_{24} corr. (r^2)
IPI00022895.7	IPI00022895.7	A1BG	alpha-1-B glycoprotein	VTLTCVAPLSGVDFQLR	CEGPIPDVTFELLR	1	1	1	1	1	1	0.366	0.254
IPI00478003.1	IPI00478003.1	A2M	Alpha-2-macroglobulin	AFQPFFVELTMPYSVIR	VSNQTLSLFFTVLQDVPVR	1	1	1	1	1	1	0.93	0.842
IPI00328762.4	IPI00328762.5	ABCA13	ATP-binding cassette sub-family A (ABC1) member 13	YIYELLN	YIYELLN	1	2	1	1	0	0		
IPI00021428.1		ACTA1	Actin, alpha skeletal muscle	AGFAGDDAPR		1		1	0	0	0		
IPI00008603.1	IPI00008603.1	ACTA2	actin alpha 2 smooth muscle aorta	AGFAGDDAPR	AGFAGDDAPR	1	2	1	1	0	0		
IPI00021439.1	IPI00021439.1	ACTB	actin beta	AGFAGDDAPR	AGFAGDDAPR	1	1	1	1	0	0		
IPI00003269.1	IPI00003269.1	ACTBL2	actin beta-like 2	SYELPDGQVITIGNER	VAPDEHPILLTEAPLNPK	1	2	1	1	0	0		
IPI00020019.1	IPI00020019.1	ADIPOQ	adiponectin C1Q and collagen domain containing	GDIGETGVPGAEGPR	SAFSVGLETYVTIPNMPIR	1	2	1	1	0	0		
	IPI00004344.1	AFF4	AF4/FMR2 family member 4		YNPSK		1	0	1	0	0		
IPI00019943.1	IPI00019943.1	AFM	afamin	TINPAVDHCCK	LKHELTDEELQSLFTNFANVVDK	1	1	1	1	1	1	0.808	0.743
IPI00022443.1	IPI00022443.1	AFP	alpha-fetoprotein	YIQESQALAK	CCQGQEQEVCFAEEGQK	1	1	1	1	0	0		
15079348	IPI00032220.3	AGT	angiotensinogen (serpin peptidase inhibitor clade A member 8)	SLDFTELDVAAEK	SLDFTELDVAAEK	1	1	1	1	1	1	0.435	0.636
IPI00022431.1	IPI00022431.2	AHSG	alpha-2-HS-glycoprotein	HTFMGVVSLGSPSGEVSHPR	EHAVEGDCDFQLLK	1	1	1	1	1	1	0.327	0.519
		ALB	Serum albumin					0	0	1	1	0.886	
IPI00022426.1	IPI00022426.1	AMBP	alpha-1-microglobulin/bikunin precursor	AFIQLWAFDAVK	AFIQLWAFDAVK	1	1	1	1	1	1	0.514	0.628
IPI00022391.1	IPI00022391.1	APCS	amyloid P component serum	AYSLFSYNTQGR	IVLGQEQDSYGGK	1	1	1	1	1	1	0.671	0.497
253362	IPI00021841.1	APOA1	Apolipoprotein A-I	VKDLATVYVDVLK	VKDLATVYVDVLK	1	1	1	1	1	1	0.912	0.884
671882	IPI00021854.1	APOA2	apolipoprotein A-II	EPCVESLVSQYFQTVTDYGK	KAGTELVNFLSYFVELGTQPATQ	1	1	1	1	1	1	0.852	0.573
IPI00304273.2	IPI00847179.1	APOA4	apolipoprotein A-IV	SLAELGGHLDQQVEEFR	LGEVNTYAGDLQK	1	1	1	1	1	1	0.854	0.81
225311	IPI00022229.1	APOB	Apolipoprotein B-100	LLSEPINIIDALEMR	LSLESLTSYFSIESSTK	1	1	1	1	1	1	0.902	0.903
IPI00021855.1	IPI00021855.1	APOC1	apolipoprotein C-I	TPDVSSALDKLK	LKEFGNTLEDK	1	1	1	1	1	1	0.416	0.18
IPI00021856.3	IPI00021856.3	APOC2	apolipoprotein C-II	STAAMSTYTGIFTDQVLSVLK	STAAMSTYTGIFTDQVLSVLK	1	1	1	1	1	1	0.493	0.617
IPI00021857.1	IPI00021857.1	APOC3	apolipoprotein C-III	DALSSVQESQVAQQAR	DALSSVQESQVAQQAR	1	1	1	1	1	1	0.474	0.447
IPI00022731.1	IPI00022731.1	APOC4	apolipoprotein C-IV	DGWQWFWSPSTFR	DGWQWFWSPSTFR	1	2	1	1	0	0		
IPI00006662.1	IPI00006662.1	APOD	apolipoprotein D	CPNPPVQENFDVNK	CPNPPVQENFDVNK	1	1	1	1	1	1	0.418	0.397
15826311	IPI00021842.1	APOE	apolipoprotein E	GEVQAMLGQSTEELR	GEVQAMLGQSTEELR	1	1	1	1	1	1	0.596	0.749
		APOF	Apolipoprotein F					0	0	1	1		0.05
IPI00298828.3	IPI00298828.3	APOH	apolipoprotein H (beta-2-glycoprotein I)	ATFGCHDGYSLDGPEEIECTK	CSYTEDAQCIDGTIEVPK	1	1	1	1	1	1	0.323	0.014
IPI00186903.3	IPI00186903.4	APOL1	apolipoprotein L 1	VTEPISAESGEQVER	VTEPISAESGEQVER	1	1	1	1	1	1	0.105	0.06
IPI00027235.1		ATRN	Attractin	GDECQLCEVENR		1		1	0	0	0		
IPI00166729.4	IPI00166729.4	AZGP1	alpha-2-glycoprotein 1 zinc-binding	YSLTYIYTGLSK	YSLTYIYTGLSK	1	1	1	1	1	1	0.75	0.664
IPI00004656.1	IPI00004656.3	B2M	beta-2-microglobulin	DWSFYLLYYTEFTPTEKDEYACR	SNFLNCYVSGFHPSDIEVDLLK	1	1	1	1	1	1	0.671	0.68
IPI00297188.5	IPI00297188.6	BAI2	brain-specific angiogenesis inhibitor 2	ASPGLGEPPPPQEANPVYM	CPPNASGSASR	4	1	1	1	0	0		
IPI00022392.1	IPI00022392.1	C1QA	complement component 1 q subcomponent A chain	SLGFCDTTNK	SLGFCDTTNK	1	1	1	1	1	1	0.205	0.238
IPI00477992.1	IPI00477992.1	C1QB	complement component 1 q subcomponent B chain	LEQGENVFLQATDK	LEQGENVFLQATDK	1	1	1	1	1	1	0.193	0.215
IPI00022394.2	IPI00022394.2	C1QC	complement component 1 q subcomponent C chain	FNAVLTNPQGDYDTSTGK	FNAVLTNPQGDYDTSTGK	1	1	1	1	1	1	0.23	0.218
IPI00296165.5	IPI00296165.6	C1R	complement component 1 r subcomponent	LPVANPQACENWLR	LVFQQFDLEPSEGCFYDYVK	1	1	1	1	1	1	0.406	0.374
IPI00009793.2	IPI00009793.4	C1RL	complement component 1 r subcomponent-like	SGLLGYVSGFGMEMGWLTTELK	LGNFPWQAFTSIHGR	1	1	1	1	0	0		
IPI00017696.1	IPI00017696.1	C1S	complement component 1 s subcomponent	CVPVCGVPR	SNALDIIFQTDLTGQK	2	1	1	1	0	1		0.01
IPI00745619.1	IPI00303963.1	C2	complement component 2	RHAFILQAVYK	PICLPCTMEANLALR	2	1	1	1	1	1	0.018	0.004
IPI00783987.1	IPI00783987.2	C3	complement component 3	DICEEQVNSLPGSITK	VQLSNDFDEYIMAIEQTIK	1	1	1	1	1	1	0.932	0.843
179674	IPI00892547.1	C4A	complement component 4A (Rodgers blood group)	VTASDPLDTLGSEGALSPGGVASLLR	GLEEELQFSLGSK	1	1	1	1	0	0		
IPI00418163.3	IPI00418163.3	C4B	complement component 4B (Chido blood group)	VTASDPLDTLGSEGALSPGGVASLLR	GLEEELQFSLGSK	1	1	1	1	1	1	0.892	0.871
IPI00021727.1	IPI00021727.1	C4BPA	complement component 4 binding protein alpha	FSAICQGDGTWSPR	CEWETPEGCEQVLTGK	1	1	1	1	1	1	0.656	0.294
IPI00025862.1	IPI00025862.2	C4BPB	complement component 4 binding protein beta	NLCEAMENFMQQLK	NLCEAMENFMQQLK	1	1	1	1	0	0		
38016947	IPI00032291.2	C5	complement component 5	TDAPDLPEENQAR	YIYPLDSLTWIEYWPR	1	1	1	1	1	1	0.812	0.6
IPI00009920.2	IPI00879709.3	C6	complement component 6	CPINCLLGDFGPWSDCDPCIEK	CPINCLLGDFGPWSDCDPCIEK	1	1	1	1	1	1	0.528	0.349
179716	IPI00296608.6	C7	Complement component C7	MPYECGPSLDVCAQDER	MPYECGPSLDVCAQDER	1	1	1	1	1	1	0.733	0.349
901864	IPI00011252.1	C8A	complement component 8 alpha polypeptide	ALDQYLMEFNACR	AIDEDCSQYEPIPGSQK	1	1	1	1	1	1	0.164	0.085
IPI00294395.1		C8B	Complement component C8 beta chain	DFGTHYITEAVLGGIYEYTLVMNK		1		1	0	0	0		
IPI00011261.2	IPI00011261.2	C8G	complement component 8 gamma polypeptide	YGFCEAADQFHVLDEVR	VQEAHLTEDQIFYFPK	1	1	1	1	1	1	0.184	0.015
IPI00022395.1	IPI00022395.1	C9	complement component 9	AIEDYINEFSVR	GTVIDVTDFVNWASSINDAPVLISQK	1	1	1	1	1	1	0.751	0.103
IPI00410413.1	IPI00789910.3	C10orf129	Acyl-coA synthetase mitcohondrial, 6 (ACSM6)	LIQVAPPK	LIQVAPPK	2	4	1	1	0	0		

t_0 protein ID	t_{24} Protein ID	Gene Symbol	Annotation	t_0 Best Sequence	t_{24} Best Sequence	Priority score t_0	t_{24} Priority score	AUC t_0 ID	AUC t_{24} ID	t_0 Spectral Count ID	t_{24} Spectral counts ID	t_0 corr. (r^2)	t_{24} corr. (r^2)
IPI00215983.2	IPI00215983.3	CA1	carbonic anhydrase I	ADGLAVIGVLMK	HDTSLKPISVSYNPATAK	1	1	1	1	0	0		
IPI00465436.3	IPI00465436.4	CAT	catalase	AFYVNVLNEEQR	LGPNYLHIPVNCPYR	1	1	1	1	0	0		
IPI00029260.2	IPI00029260.2	CD14	CD14 molecule	AFPALTSLDLSDNPGLGER	VLSIAQAHSPAFSCEQVR	1	1	1	1	1	1	0.248	0.241
IPI00104074.4		CD163	Scavenger receptor cysteine-rich type 1 protein M130	EAEFGQGTGPIWLNEVK		1		1	0	0	0		
IPI00025204.1	IPI00025204.1	CD5L	CD5 molecule-like	ELGCGAASGTPSGILYEPPAEK	EATLQDCPSGPWGK	1	1	1	1	0	0		
40737516		CDA6predicted	C4A6[Homosapiens]	VGDTLNLNLR		1		1	0	0	0		
	IPI00855998.1	CENPF	centromere protein F 350/400ka (mitosin)		SSGIWENGR		1	0	1	0	0		
IPI00010180.3	IPI00010180.4	CES1	carboxylesterase 1 (monocyte/macrophage serine esterase 1)	ESQPLLGTVIDGMLLLK	ESQPLLGTVIDGMLLLK	1	1	1	1	0	1		0.321
IPI00019591.1	IPI00893864.1	CFB	complement factor B	LLQEGQALEYVCPSGFYPYPVQTR	LLQEGQALEYVCPSGFYPYPVQTR	1	1	1	1	1	1	0.468	0.589
IPI00019579.1	IPI00165972.3	CFD	complement factor D (adipsin)	RPDSLQHVLLPVLDR	RPDSLQHVLLPVLDR	1	1	1	1	0	0		
IPI00029739.4	IPI00029739.5	CFH	Complement factor H	AVYTCNEGYQLLGEINYR	CFEGFGIDGPAIAK	1	1	1	1	1	1	0.285	0.196
IPI00006543.2	IPI00011264.2	CFHR1	complement factor H-related 1	ITCTEEGWSPTPK	YKPFSQVPTGEVFYYSCEYNFVSPSK	2	1	1	1	0	0		
IPI00006154.1	IPI00006154.1	CFHR2	complement factor H-related 2	CLDPCVISQEIMEK	ITCAEEGWSPTPK	1	1	1	1	0	0		
IPI00027507.1	IPI00027507.1	CFHR3	complement factor H-related 3	CYFPYLENGYNQNYGR	KCYFPYLENGYNQNYGR	1	1	1	1	0	0		
IPI00291867.3	IPI00291867.3	CFI	complement factor I	TMGYQDFADVVCYTQK	TMGYQDFADVVCYTQK	1	1	1	1	1	1	0.463	0.314
IPI00012011.5		CFL1	Cofilin-1	KEDLVFIFWAPESAPLK		1		1	0	0	0		
IPI00021364.1	IPI00021364.1	CFP	complement factor properdin	SISCQEIPGQQSR	HCYSIQHCPLK	1	1	1	1	0	0		
IPI00009028.1	IPI00009028.1	CLEC3B	C-type lectin domain family 3 member B	LDTLAQEVALLK	LDTLAQEVALLK	1	1	1	1	1	1	0.176	0.016
IPI00291262.3	IPI00291262.3	CLU	clusterin	LFDSDPITVTVPVEVSR	EILSVDCSTNNPSQAK	1	1	1	1	1	1	0.31	0.447
IPI00011283.1	IPI00011283.2	COL11A2	collagen type XI alpha 2	GEHGPPGPPGPIGPVGQPGAAGADGEPGAR	GDPGPPGAPGKDGPAGLR	3	1	1	1	0	0		
179594	IPI00297646.4	COL1A1	collagen type I alpha 1	VLCDDVICDETK	VLCDDVICDETK	2	1	1	1	0	0		
IPI00168920.2	IPI00168920.3	COL24A1	collagen type XXIV alpha 1	NKNRLQLGVQLLPK	NKNRLQLGVQLLPK	2	1	1	1	0	0		
930045	IPI00021033.2	COL3A1	collagen type III alpha 1	GDPGANGLPGAA	GPPGINGSPGGK	4	1	1	1	0	0		
IPI00025418.1	IPI00025418.2	COL7A1	collagen type VII alpha 1	GDPGVGLPGPR	IFSPIREAQASGLNVVML	2	1	1	1	0	0		
2632189	IPI00423463.1	COPB1	coatomer protein complex subunit beta 1	VSGDWGQGTLVTVSSASPTSPK	HNWFDPWGQGTLVTISSASTK	4	1	1	1	0	0		
IPI00017601.1	IPI00017601.1	CP	ceruloplasmin (ferroxidase)	ALYLQYTDETFR	HYYIAAEEIIWNYAPSGIDIFTK	1	1	1	1	1	1	0.8	0.746
IPI00293057.5		CPB2	Carboxypeptidase B2	ASASYYEQYHSLNEIYSWIEFITER		1		1	0	0	0		
IPI00010295.1	IPI00010295.1	CPN1	carboxypeptidase N polypeptide 1	IVQLIQDTR	ELMLQLSEFLCEEFR	1	1	1	1	0	0		
IPI00479116.1	IPI00479116.1	CPN2	carboxypeptidase N polypeptide 2	VVFLNTQLCQFRPDAFGGLPR	TLNLAQNLLAQLPEELFHPLTSLQTLK	1	1	1	1	1	1	0.006	0.038
	IPI00011062.1	CPS1	carbamoyl-phosphate synthetase 1 mitochondrial		IAPSFAVESIEDALK		1	0	1	0	1		0.038
IPI00022389.1	IPI00022389.1	CRP	C-reactive protein pentraxin-related	RQDNEILIFWSK	GYSIFSYATK	1	1	1	1	1	1	0.758	0.642
IPI00032293.1	IPI00032293.1	CST3	cystatin C	LVGGPMDASVEEEGVR	LVGGPMDASVEEEGVR	1	1	1	1	1	1	0.134	0.068
IPI00005721.1	IPI00005721.1	DEFA1	defensin alpha 1	IPACIAGER	ADEVAAAPEQIAADIPEVVVSLAWDESLAPK	1	1	1	1	0	0		
IPI00465045.2		DIP2B	Disco-interacting protein 2 homolog B	DSAVQKELR		1		1	0	0	0		
4758236	IPI00003351.2	ECM1	extracellular matrix protein 1	NVALVSGDTENAK	NIWRDPALCCYLSPGDEQVNCFNINYLR	1	1	1	1	0	0		
IPI00019581.1	IPI00019581.1	F12	coagulation factor XII (Hageman factor)	TTLSGAPCQPWASEATYR	GRPGPQPWCATTPNFDQDQR	1	1	1	1	0	0		
IPI00019568.1	IPI00019568.1	F2	coagulation factor II (thrombin)	LAVTTHGLPCLAWASAQAK	IVEGSDAEIGMSPWQVMLFR	1	1	1	1	1	1	0.052	0.08
IPI00010290.1	IPI00010290.2	FABP1	fatty acid binding protein 1 liver	SVTELNGDIITNTMTLGDIVFK	AIGLPEELIQK	1	2	1	1	0	0		
IPI00215746.2		FABP4	Fatty acid-binding protein, adipocyte	LVSSENFDDYMK		1		1	0	0	0		
		FAM135A	Protein FAM135A					0	0	1	1	0.01	
IPI00218803.2	IPI00218803.3	FBLN1	fibulin 1	GYQLSDVDGVTCEDIDECALPTGGHICSYR	DIDECESGIHNCLPDFICQNTLGSFR	1	2	1	1	0	0		
IPI00242956.3	IPI00242956.5	FCGBP	Fc fragment of IgG binding protein	EQGGQGVCLPNYEATCWLWGD	APGWDPLCWDECR	1	1	1	1	1	1	0.491	0.263
IPI00293925.2		FCN3	Ficolin-3	YGIDWASGR		1		1	0	0	0		
IPI00021885.1	IPI00021885.1	FGA	fibrinogen alpha chain	GLIDEVNQDFTNR	ADSGEGDFLAEGGGVR	1	1	1	1	1	1	0.823	0.713
IPI00298497.3	IPI00298497.3	FGB	fibrinogen beta chain	VYCDMNTENGGWTVIQNR	DNENVVNEYSSELEK	1	1	1	1	1	1	0.687	0.729
IPI00021891.5	IPI00021891.5	FGG	fibrinogen gamma chain	YEASILTHDSSIR	YEASILTHDSSIR	1	1	1	1	1	1	0.818	0.694
	IPI00289334.1	FLNB	filamin B beta		PASFAIR		1	0	1	0	0		
51476364	IPI00022418.1	FN1	fibronectin 1	SYTITGLQPGTDYK	SYTITGLQPGTDYK	1	1	1	1	1	1	0.587	0.386
	IPI00375676.3	FTL	ferritin light polypeptide		KLNQALLDLHALGSAR		1	0	1	0	1		0.512
IPI00010375.3	IPI00555812.4	GC	Vitamin D-binding protein	LSNLIK	FMPAAQLPELPDVELPTNK	4	1	1	1	1	1	0.57	0.376
IPI00026199.1	IPI00026199.2	GPX3	glutathione peroxidase 3 (plasma)	FLVGPDGIPIMR	FLVGPDGIPIMR	1	1	1	1	0	0		
IPI00026314.1	IPI00026314.1	GSN	gelsolin (amyloidosis Finnish type)	QTQVSVLPEGGETPLFK	AQPVQVAEGSEPDGFWEALGGK	1	1	1	1	1	1	0.69	0.648
IPI00465253.4	IPI00465253.4	HAUS6	HAUS augmin-like complex subunit 6	LDGTNVAINIPR	LDGTNVAINIPR	2	1	1	1	0	0		
27574247	IPI00410714.5	HBA1	hemoglobin alpha 1	VGAHAGEYGAEALER	VGAHAGEYGAEALER	1	1	1	1	1	1	0.758	0.913
13195586		HBA2	Hemoglobin subunit alpha	VGAHAGEYGAEALER		1		1	0	0	0		
IPI00658153.1	IPI00654755.3	HBB	Hemoglobin subunit beta	SAVTALWGQ	VLGAFSDGLAHLDNLK	2	1	1	1	1	1	0.887	0.91
IPI00473011.2	IPI00473011.3	HBD	hemoglobin delta	VLGAFSDGLAHLDNLK	VLGAFSDGLAHLDNLK	1	1	1	1	0	0		
	IPI00220706.10	HBG1	hemoglobin gamma A		VNVEDAGGETLGR		1	0	1	0	1		0.114

t_0 protein ID	t_{24} Protein ID	Gene Symbol	Annotation	t_0 Best Sequence	t_{24} Best Sequence	Priority score t_0	t_{24} Priority score	AUC t_0 ID	AUC t_{24} ID	t_0 Spectral Count ID	t_{24} Spectral counts ID	t_0 corr. (r^2)	t_{24} corr. (r^2)
IPI00217473.4	IPI00217473.5	HBZ	hemoglobin zeta	LRVDPVNFK	LRVDPVNFK	1	1	1	1	0	0		
229528		HLA-E	HLA class I histocompatibility antigen, alpha chain E	YACZVTHZGLSSPVTK		1		1	0	0	0		
229271	IPI00902590.1	HP	Haptoglobin	TQGDGVYTLNNEK	SPVGVQPILNEHTFCAGMSK	4	1	1	1	1	1	0.933	0.93
IPI00477597.1	IPI00477597.1	HPR	haptoglobin-related protein	TEGDGVYTLNDK	TEGDGVYTLNDK	1	1	1	1	1	1	0.599	0.04
IPI00022488.1	IPI00022488.1	HPX	hemopexin	LYLVQGTQVYVFLTK	LLQDEFPGIPSPLDAAVECHR	1	1	1	1	1	1	0.776	0.77
IPI00022371.1	IPI00022371.1	HRG	Histidine-rich glycoprotein	GGEGTGYFVDFSVR	GGEGTGYFVDFSVR	1	1	1	1	1	1	0.847	0.811
	IPI00220362.5	HSPE1	heat shock 10kDa protein 1 (chaperonin 10)		GGEIQPVSVK		1	0	1	0	0		
IPI00009477.4	IPI00009477.4	ICAM2	intercellular adhesion molecule 2	QVILTLQPTLVAVGK	VPTVEPLDSLTLFLFR	2	1	1	1	0	0		
		IGFALS	Insulin-like growth factor-binding protein complex acid labile subunit					0	0	0	1		
IPI00297284.1		IGFBP2	Insulin-like growth factor-binding protein 2	GECWCVNPNTGK		1		1	0	0	0		
IPI00305380.3	IPI00305380.3	IGFBP4	insulin-like growth factor binding protein 4	EDARPVPQGSCQSELHR	EDARPVPQGSCQSELHR	1	2	1	1	0	0		
IPI00029235.1		IGFBP6	Insulin-like growth factor-binding protein 6	HLDSVLQQLQTEVYR		1		1	0	0	0		
34527679	IPI00386524.3	IGHA1	immunoglobulin heavy constant alpha 1	SAVQGPPDRDLCGCYSVSSVLPGCAEPWNHGK	SAVQGPPDRDLCGCYSVSSVLPGCAEPWNHGK	1	1	1	1	1	1	0.815	0.189
		IGHD	Ig delta chain C region					0	0	1	1		
21757089		IGHG1	Ig gamma-1 chain C region	WQQGNVFSCSVMHEALHDHYTQK		1		1	0	1	1	0.024	
		IGHG2	Ig gamma-2 chain C region					0	0	1	1		
		IGHG3	Ig gamma-3 chain C region					0	0	1	1		
		IGHG4	Ig gamma-4 chain C region					0	0	1	1		
		IGHM	Ig mu chain C region					0	0	1	1	0.077	
		IGJ	Immunoglobulin J chain					0	0	1	1		
		IGKC	Ig kappa chain C region					0	0	1	1		
		IGKV1-5	Ig kappa chain V-I region HK102 (Fragment)					0	0	0	1		
		IGLC7	Ig lambda-7 chain C region					0	0	1	1		
1871489		IGM	IgM[Homosapiens]	EVQLVESGGGLVKPRG		1		1	0	0	0		
33319112		IGVH3	Ig heavy chain variable region, VH3 family	LSCVTSGFTFDDHGMTWVR		1		1	0	0	0		
IPI00292530.1	IPI00292530.1	ITIH1	inter-alpha (globulin) inhibitor H1	LWAYLTIQELLAK	LWAYLTIQELLAK	1	1	1	1	1	1	0.776	0.7
IPI00305461.2	IPI00305461.3	ITIH2	inter-alpha (globulin) inhibitor H2	MLADAPPQDPSCCSGALYYGSK	AHVSFKPTVAQQR	1	1	1	1	1	1	0.79	0.551
IPI00028413.7	IPI00028413.8	ITIH3	inter-alpha (globulin) inhibitor H3	LVDEDMNSFK	LWAYLTIEQLLEK	1	1	1	1	1	1	0.327	0.132
IPI00218192.1	IPI00218192.3	ITIH4	inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein)	LDYQEGPPGVEISCWSVEL	SPEQQETVLDGNLIIR	1	1	1	1	1	1	0.666	0.7
1575607	IPI00479786.5	KHSRP	KH-type splicing regulatory protein	AQPPGGGGPGIR	AGLVIGK	2	1	1	1	0	0		
	IPI00827544.1	KIF19	kinesin family member 19		QIIDDYNL		1	0	1	0	0		
IPI00654888.2	IPI00654888.4	KLKB1	kallikrein B plasma (Fletcher factor) 1	CLLFSFLPASSINDMEK	CLLFSFLPASSINDMEK	1	1	1	1	0	0		
IPI00032328.1	IPI00215894.1	KNG1	kininogen 1	LGQSLDCNAEVYVVPWEK	LGQSLDCNAEVYVVPWEK	1	1	1	1	1	1	0.342	0.542
		KRT31	Keratin, type I cuticular Ha1					0	0	0	1		
		KRT81	Keratin, type II cuticular Hb1					0	0	0	1		
31652249	IPI00032311.4	LBP	lipopolysaccharide binding protein	GLQYAAQEGLLALQSELLR	GLQYAAQEGLLALQSELLR	1	1	1	1	1	1	0.801	0.763
IPI00299547.4	IPI00299547.4	LCN2	lipocalin 2	VPLQQNFQDNQFQGK	SLGLPENHIVFPVPIDQCIDG	1	1	1	1	0	0		
IPI00010471.4	IPI00010471.5	LCP1	lymphocyte cytosolic protein 1 (L-plastin)	VDTDGNGYISFNELNDLFK	LNLAFIANLFNR	1	1	1	1	0	0		
IPI00023673.1	IPI00023673.1	LGALS3BP	lectin galactoside-binding soluble 3 binding protein	ELSEALGQIFDSQR	GQWGTVCDNLWDLTDASVVCR	1	2	1	1	0	0		
IPI00164623.4		LOC100133511	hypothetical protein LOC100133511	DICEEQVNSLPGSITK		1		1	0	0	0		
IPI00167093.4		LOC100293069	similar to complement factor H-related 1	EIMENYNIALR		1		1	0	0	0		
IPI00061977.1		LOC100294459	similar to immunoglobulin lambda-like polypeptide 1	GDTFSCMVGHEALPLAFTQE		1		1	0	0	0		
IPI00736860.2		LOC100294460	similar to immunoglobulin lambda-like polypeptide 2	NQVTLTCLVK		1		1	0	0	0		
IPI00029168.1	IPI00029168.1	LPA	lipoprotein Lp(a)	TPEYYPNAGLIMNYCR	TPEYYPNAGLIMNYCR	1	1	1	1	1	1	0.56	0.06
21707947	IPI00022417.4	LRG1	leucine-rich alpha-2-glycoprotein 1	ENQLEVLEVSWLHGLK	ENQLEVLEVSWLHGLK	1	1	1	1	1	1	0.646	0.404
IPI00298860.5		LTF	Lactotransferrin	CSTSPLLEACEFLR		1		1	0	0	0		
IPI00020986.2	IPI00020986.2	LUM	lumican	SLEYLDLSFNQIAR	LPSGLPVSLLTLYLDNNK	1	1	1	1	1	1	0.829	0.61
3402141	IPI00019038.1	LYZ	lysozyme (renal amyloidosis)	WESGYNTR	TPGAVNACHLSCSALLQDNIADAVACAK	1	1	1	1	0	0		
	126608	LYZL4	lysozyme-like 4		GYSLGNWVCAAK		1	0	1	0	0		
		MACF1	Microtubule-actin cross-linking factor 1, isoform 4					0	0	1	1		0.004
IPI00217493.4	IPI00217493.5	MB	myoglobin	HGATVLTALGGILK	HGATVLTALGGILK	2	1	1	1	0	1		0.295
IPI00004373.1	IPI00004373.1	MBL2	mannose-binding lectin (protein C) 2 soluble (opsonic defect)	TEGQFVDLTGNR	FQASVATPR	1	2	1	1	0	0		
21756643		MCAM	Cell surface glycoprotein MUC18	LSCEASGFR		1		1	0	0	0		
IPI00306929.7	IPI00306929.9	MYO18B	myosin XVIIIB	TTELKEAEPQGK	TTELKEAEPQGK	2	1	1	1	0	0		

t_0 protein ID	t_{24} Protein ID	Gene Symbol	Annotation	t_0 Best Sequence	t_{24} Best Sequence	Priority score t_0	t_{24} Priority score	AUC t_0 ID	AUC t_{24} ID	t_0 Spectral Count ID	t_{24} Spectral counts ID	t_0 corr. (r^2)	t_{24} corr. (r^2)
	IPI00423460.3	NID1	nidogen 1		DLCGCYSVPSVLPGCAEPWNHGK		1	0	1	0	0		
IPI00022429.3	IPI00022429.3	ORM1	orosomucoid 1	NWGLSVYADKPETTK	NWGLSVYADKPETTK	1	1	1	1	1	1	0.904	0.784
IPI00020091.1	IPI00020091.1	ORM2	orosomucoid 2	TLMFGSYLDDEK	NWGLSFYADKPETTK	1	1	1	1	1	1	0.814	0.672
IPI00022295.1		PF4V1	Platelet factor 4 variant	HITSLEVIK		1		1	0	0	0		
IPI00216691.4		PFN1	Profilin-1	TFVNITPAEVGVLVGK		1		1	0	0	0		
IPI00163207.1	IPI00163207.1	PGLYRP2	peptidoglycan recognition protein 2	SLPLLMDSVIQALAELEQK	SLPLLMDSVIQALAELEQK	1	1	1	1	1	1	0.487	0.247
IPI00004573.1	IPI00004573.2	PIGR	polymeric immunoglobulin receptor	NADLQVLKPEPELVYEDLR	NADLQVLKPEPELVYEDLR	2	1	1	1	0	0		
IPI00306311.8	IPI00306311.8	PLEK	pleckstrin	LPETIDLGALYLSMK	KSEEENLFEIITADEVHYFLQAATPK	1	1	1	1	0	0		
229453	IPI00019580.1	PLG	Plasminogen	EPLDDYVNTQGASLFSVTK	VILGAHQEVNLEPHVQEIEVSR	1	1	1	1	1	1	0.232	0.296
1262347	IPI00218732.3	PON1	paraoxonase 1	ILLMDLNEEDPTVLELGITGSK	IFFYDSENPPASEVLR	1	1	1	1	0	0		
IPI00555900.1		POTEK	POTE ankyrin domain family, member K	SYELPDGQVITIGNER		1		1	0	0	0		
IPI00022445.1	IPI00022445.1	PPBP	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	GTHCNQVEVIATLK	GKEESLDSDLYAELR	1	1	1	1	1	1	0.414	0.306
IPI00027350.2	IPI00027350.3	PRDX2	peroxiredoxin 2	KEGGLGPLNIPLLADVTR	ATAVVDGAFK	1	1	1	1	0	0		
IPI00024825.2	IPI00024825.2	PRG4	proteoglycan 4	ITEVWGIPSPIDTVFTR	GLPNVVTSAISLPNIR	1	1	1	1	1	1	0.036	0.016
IPI00294004.1		PROS1	Vitamin K-dependent protein S	HCLVTVEK		1		1	0	0	0		
IPI00013179.1	IPI00013179.1	PTGDS	Prostaglandin-H2 D-isomerase	TMLLQPAGSLGSYSYR	APEAQVSVQPNFQQDK	1	1	1	1	1	1	0.609	0.018
IPI00025426.1	IPI00025426.2	PZP	pregnancy-zone protein	AFQPFFVELTMPYSVIR	GSFALSFPVESDVAPIAR	1	1	1	1	1	1	0	0.005
IPI00003590.2		QSOX1	Sulfhydryl oxidase 1	LDVPVWDVEATLNFLK		1		1	0	0	0		
IPI00221325.3	IPI00221325.3	RANBP2	RAN binding protein 2	ERGIGNVKILR	DTSFLGSDDIGNIDVR	3	1	1	1	0	0		
IPI00411314.2	IPI00304692.1	RBMX	RNA binding motif protein X-linked	LTVIMVIP	RDVYLSPR	4	1	1	1	0	0		
2895204	IPI00022420.3	RBP4	retinol binding protein 4 plasma	FSGTWYAMAK	LLNNWDVCADMVGTFTDTEDPAK	2	1	1	1	1	1	0.448	0.529
IPI00009027.1	IPI00009027.1	REG1A	regenerating islet-derived 1 alpha	ISCPEGTNAYR	RWHWSSGSLVSYK	2	1	1	1	0	0		
IPI00014048.1	IPI00014048.1	RNASE1	ribonuclease RNase A family 1 (pancreatic)	QHMDSDSSPSSSSTYCNQMMR	CKPVNTFVHEPLVDVQNVCFQEK	1	2	1	1	0	0		
IPI00007047.1	IPI00007047.1	S100A8	S100 calcium binding protein A8	LLETECPQYIR	ALNSIIDVYHK	1	1	1	1	0	0		
IPI00027462.1	IPI00027462.1	S100A9	S100 calcium binding protein A9	VIEHIMEDLDTNADK	VIEHIMEDLDTNADK	1	1	1	1	1	1	0.813	0.565
247142	IPI00006146.4	SAA1	Serum amyloid A protein	SFFSFLGEAFDGAR	GPGGAWAAEVISNAR	1	1	1	1	1	1	0.879	0.859
IPI00027191.1	IPI00027191.1	SAA3P	serum amyloid A3 pseudogene	SGKDPNHFRPAGLPEK	SGKDPNHFRPAGLPEK	1	1	1	1	0	0		
IPI00019399.1	IPI00019399.1	SAA4	serum amyloid A4 constitutive	VYLQGLIDYYLFGNSSTVLEDSK	VYLQGLIDYYLFGNSSTVLEDSK	1	1	1	1	1	1	0.494	0.498
IPI00297325.3		SDHD	Succinate dehydrogenase [ubiquinone] cytochrome b small subunit, mitochondrial	AVAMLWK		2		1	0	0	0		
	IPI00218795.1	SELL	selectin L		NKEDCVEIYIK		1	0	1	0	0		
IPI00029061.2	IPI00029061.3	SEPP1	selenoprotein P plasma 1	LVYHLGLPFSFLTFPYVEEAIK	LVYHLGLPFSFLTFPYVEEAIK	2	1	1	1	0	0		
223433	IPI00553177.1	SERPINA1	Alpha-1-antitrypsin	FNKPFVFLMIEQNTK	VFSNGADLSGVTEEAPLK	1	1	1	1	1	1	0.919	0.876
IPI00007199.4	IPI00007199.4	SERPINA10	serpin peptidase inhibitor clade A (alpha-1 antiproteinase antitrypsin) member 10	IFSPFADLSELSATGR	IFSPFADLSELSATGR	1	2	1	1	0	0		
225769	IPI00550991.3	SERPINA3	serpin peptidase inhibitor clade A (alpha-1 antiproteinase antitrypsin) member 3	RLYGSEAFATDFQDSAAAK	RLYGSEAFATDFQDSAAAK	1	1	1	1	1	1	0.859	0.892
IPI00027482.1	IPI00027482.1	SERPINA6	serpin peptidase inhibitor clade A (alpha-1 antiproteinase antitrypsin) member 6	NVDFAFSLYK	WSAGLTSSQVDLYIPK	1	1	1	1	0	0		
IPI00292946.1	IPI00292946.1	SERPINA7	serpin peptidase inhibitor clade A (alpha-1 antiproteinase antitrypsin) member 7	EGQMESVEAAMSSK	SFMLLILER	1	1	1	1	1	1	0.136	0.074
IPI00032179.2	IPI00032179.3	SERPINC1	serpin peptidase inhibitor clade C (antithrombin) member 1	NDNDNIFLSPLSISTAFAMTK	FATTFYQHLADSK	1	1	1	1	1	1	0.5	0.541
23273330	IPI00292950.4	SERPIND1	serpin peptidase inhibitor clade D (heparin cofactor) member 1	GGETAQSADPQWEQLNNK	GGETAQSADPQWEQLNNK	1	1	1	1	1	1	0.288	0.005
39725934	IPI00006114.4	SERPINF1	serpin peptidase inhibitor clade F (alpha-2 antiplasmin pigment epithelium derived factor) member 1	LDLQEINNWVQAQMK	SSMSPTTNVLLSPLSVATALSALSLGAEQR	1	1	1	1	1	1	0.627	0.362
IPI00029863.4	IPI00879231.1	SERPINF2	serpin peptidase inhibitor clade F (alpha-2 antiplasmin pigment epithelium derived factor) member 2	LGNQEPGGQTALK	LCQDLGPGAFR	1	1	1	1	1	1	0.037	0.169
179621	IPI00291866.5	SERPING1	serpin peptidase inhibitor clade G (C1 inhibitor) member 1	GVTSVSQIFHSPDLAIR	LVLLNAIYLSAK	1	1	1	1	1	1	0.75	0.655
	IPI00179016.8	SETD1A	SET domain containing 1A		FQGSGAATETAESRR		1	0	1	0	0		
IPI00023019.1	IPI00023019.1	SHBG	sex hormone-binding globulin	VVLSSGSGPGLDLPLVLGLPLQLK	ALALPPLGLAPLLNLWAKPQGR	1	2	1	1	0	0		
	IPI00011961.1	SIGLEC1	sialic acid binding Ig-like lectin 1 sialoadhesin		GCSPR		1	0	1	0	0		
IPI00020687.1	IPI00020687.1	SPINK1	serine peptidase inhibitor Kazal type 1	IYDPVCGTDGNTYPNECVLCFENR	IYDPVCGTDGNTYPNECVLCFENR	1	2	1	1	0	0		
IPI00550363.2	IPI00550363.3	TAGLN2	transgelin 2	YGINTTDIFQTVDLWEGK	YGINTTDIFQTVDLWEGK	1	1	1	1	0	0		
2815575	IPI00022463.1	TF	Serotransferrin	KSVEEYANCHLAR	TAGWNIPMGLLYNK	1	1	1	1	1	1	0.478	0.885
IPI00032292.1	IPI00032292.1	TIMP1	TIMP metallopeptidase inhibitor 1	LQSGTHCLWTDQLLQGSEK	LQSGTHCLWTDQLLQGSEK	1	1	1	1	0	0		

t_0 protein ID	t_{24} Protein ID	Gene Symbol	Annotation	t_0 Best Sequence	t_{24} Best Sequence	Priority score t_0	t_{24} Priority score	AUC t_0 ID	AUC t_{24} ID	t_0 Spectral Count ID	t_{24} Spectral counts ID	t_0 corr. (r^2)	t_{24} corr. (r^2)
IPI00298994.5	IPI00298994.6	TLN1	talin 1	GVAALTSDPAVQAIVLDTASDVLDK	GTEWVDPEDPTVIAENELLGAAAAIEAAAK	1	2	1	1	1	1	0.253	0.125
IPI00180240.2		TMSL3	Thymosin beta-4-like protein 3	NPLPSKETIEQEK		1		1	0	0	0		
	IPI00554760.1	TNR	tenascin R (restrictin janusin)		QQSLESTVDAFTGIDPPK		1	0	1	0	0		
IPI00010779.3		TPM4	Tropomyosin alpha-4 chain	AEGDVAALNR		1		1	0	0	0		
		TRANK1	TPR and ankyrin repeat-containing protein 1					0	0	1	1	0	
	IPI00413160.4	TRIOBP	TRIO and F-actin binding protein		SPVGGDAAGQKK		1	0	1	0	0		
IPI00023283.3	IPI00023283.3	TTN	titin	SEPIVAR	VLACNAGGPGEPAEVPGTVK	1	1	1	1	0	0		
230651	IPI00022432.1	TTR	transthyretin	KAADDTWEPFASGK	KAADDTWEPFASGK	1	1	1	1	1	1	0.896	0.928
IPI00295413.8	IPI00807602.1	ULK4	unc-51-like kinase 4 (C. elegans)	TEHNPTFTR	ILCEDPLPPIPKDSSRPK	4	1	1	1	0	0		
33358191	IPI00386524.3	unknown 51	LChainL,CrystalStructureOfFab'FromTheHiv-1NeutralizingAntibody2f5InComplexWithItsGp41Epitope	ALQLTQSPSSLSASVGDR		1		1	0	0	0		
51103537		unknown 70	immunoglobulin variable region VL kappa domain	DVVMTQSPLSLAVTPGEPASISCR		1		1	0	0	0		
51103559		unknown 72	immunoglobulin variable region VL kappa domain	DIVMTQSPLSLAVTPGEPASISCR		1		1	0	0	0		
896277		unknown 8	immunoglobulin lambda light chain VLJ region	SYELTQPPSVSVSPGKTAR		1		1	0	0	0		
	IPI00887739.3	unknown a111	similar to complement component C3, partial		SNLDEDIIAEENIVSR		1	0	1	0	0		
	IPI00894523.1	unknown a126	POTE ankyrin domain family, member		AGFAGDDAPR		1	0	1	0	0		
	IPI00930382.1	unknown a149	hp2-alpha		SPVGVQPILNEHTF		1	0	1	0	0		
	IPI00736860.3	unknown a60	immunoglobulin heavy chain		DYFPEPVTVSWNSGALTR		1	0	1	0	0		
		unknownd1	Ig kappa chain V-I region AG					0	0	1	0		
		unknownd10	Ig kappa chain V-III region SIE					0	0	1	1		
		unknownd11	Ig kappa chain V-III region VG (Fragment)					0	0	1	1		
		unknownd12	Ig kappa chain V-III region VH (Fragment)					0	0	0	1		
		unknownd13	Ig kappa chain V-IV region Len					0	0	1	1		
		unknownd14	Ig lambda chain V-I region WAH					0	0	0	1		
		unknownd15	Ig lambda chain V-III region LOI					0	0	1	1		
		unknownd16	JPH1HUMAN-R					0	0	0	1		
		unknownd17	Keratin-81-like protein					0	0	0	1		
		unknownd2	Ig kappa chain V-II region MIL					0	0	1	0		
		unknownd3	ZXDBHUMAN-R					0	0	1	0		
		unknownd4	FBX7HUMAN-R					0	0	0	1		
		unknownd5	Ig heavy chain V-III region GAL					0	0	1	1		
		unknownd6	Ig kappa chain V-I region EU					0	0	1	1		
		unknownd7	Ig kappa chain V-I region WEA					0	0	0	1		
		unknownd8	Ig kappa chain V-III region B6					0	0	0	1		
		unknownd9	Ig kappa chain V-III region NG9 (Fragment)					0	0	0	1		
	IPI00020037.1	USF2	upstream transcription factor 2 c-fos interacting		MLDPGLDPAASATAAAAASHDK		1	0	1	0	0		
IPI00395488.2	IPI00395488.2	VASN	vasorin	LAGLGLQQLDEGLFSR	LLLLDLSHNSLLALEPGILDTANVEALR	1	2	1	1	1	1	0.045	0.036
IPI00027038.1	IPI00027038.1	VSIG4	V-set and immunoglobulin domain containing 4	VATLSTLLFKPAVIADSGSYFCTAK	VATLSTLLFKPAVIADSGSYFCTAK	2	1	1	1	0	0		
IPI00298971.1	IPI00298971.1	VTN	vitronectin	DVWGIEGPIDAAFTR	DVWGIEGPIDAAFTR	1	1	1	1	1	1	0.4	0.333
IPI00023014.1	IPI00023014.1	VWF	von Willebrand factor	LLDLVFLLDGSSR	IGWPNAPILIQDFETLPR	1	1	1	1	1	1	0.611	0.477

Table S9. Average, log-transformed, scaled, plasma protein concentrations. SIRS+ patients (controls), sepsis survivors and sepsis nonsurvivor at t0 (top cell) and t24 (bottom cell) in 150 discovery patients, showing significant differences from sepsis survivors by weighted ANOVAs (denoted*, 10% FDR with the exception of t0 sepsis survival versus sepsis nonsurvivor, 5% FDR).

Gene symbol	Annotation	SIRS+	sepsis survivors	sepsis nonsurvivor
A2M	alpha-2-macroglobulin	N/D	N/D	N/D
		14.24 ± 0.09	13.95 ± 0.04*	14.13 ± 0.06
ACSM6	Acyl-coenzyme A synthetase ACSM6, mitochondrial	17.33 ± 0.10	17.78 ± 0.06*	17.96 ± 0.08
		13.40 ± 0.08	13.79 ± 0.05*	13.96 ± 0.09
ACTA2	actin alpha 2 smooth muscle aorta	13.34 ± 0.09	13.16 ± 0.03	13.39 ± 0.08*
		12.37 ± 0.05	12.25 ± 0.05	12.31 ± 0.07
ACTB	actin beta	13.42 ± 0.09	13.25 ± 0.02	13.49 ± 0.08*
		12.46 ± 0.06	12.38 ± 0.04	12.46 ± 0.06
ACTBL2	actin beta-like 2	13.02 ± 0.13	12.80 ± 0.04	13.05 ± 0.10*
		12.55 ± 0.11	12.52 ± 0.05	12.61 ± 0.08
ADIPOQ	adiponectin C1Q and collagen domain containing	13.88 ± 0.05	13.69 ± 0.03*	13.81 ± 0.06
		12.26 ± 0.07	12.10 ± 0.04	12.09 ± 0.08
AFF4	AF4/FMR2 family member 4	N/D	N/D	N/D
		15.10 ± 0.09	15.05 ± 0.05	15.36 ± 0.09*
AFM	afamin	13.94 ± 0.05	13.79 ± 0.04	13.55 ± 0.06*
		13.32 ± 0.06	13.08 ± 0.05*	12.99 ± 0.07
AHSG	alpha-2-HS-glycoprotein	14.61 ± 0.06	14.46 ± 0.05	14.01 ± 0.10*
		14.20 ± 0.07	13.85 ± 0.05*	13.76 ± 0.10
APOA1	apolipoprotein A-I	14.39 ± 0.12	14.25 ± 0.05	13.78 ± 0.06*
		13.56 ± 0.09	13.37 ± 0.05	13.06 ± 0.07*
APOA2	apolipoprotein A-II	13.99 ± 0.16	13.91 ± 0.07	13.25 ± 0.05*
		12.58 ± 0.10	12.35 ± 0.06	12.00 ± 0.05*
APOA4	apolipoprotein A-IV	14.20 ± 0.09	14.05 ± 0.05	13.77 ± 0.08*
		13.40 ± 0.07	13.27 ± 0.04	13.19 ± 0.07
APOC4	apolipoprotein C-IV	13.35 ± 0.04	13.40 ± 0.04	13.23 ± 0.03*
		12.28 ± 0.08	12.37 ± 0.07	12.31 ± 0.08
APOH	apolipoprotein H (beta-2-glycoprotein I)	15.03 ± 0.07	15.00 ± 0.04	14.81 ± 0.07
		14.32 ± 0.06	14.13 ± 0.04*	14.06 ± 0.07
APOL1	apolipoprotein L 1	13.64 ± 0.06	13.63 ± 0.03	13.32 ± 0.04*
		12.95 ± 0.07	12.82 ± 0.04	12.75 ± 0.04
BAI2	brain-specific angiogenesis inhibitor 2	13.26 ± 0.11	13.48 ± 0.08	13.50 ± 0.12
		14.50 ± 0.09	14.90 ± 0.06*	15.00 ± 0.09
C1QA	complement component 1 q subcomponent A chain	14.29 ± 0.07	14.35 ± 0.02	14.67 ± 0.06*
		14.06 ± 0.07	14.09 ± 0.03	14.19 ± 0.05
C1QB	complement component 1 q subcomponent B chain	13.97 ± 0.08	13.99 ± 0.02	14.31 ± 0.06*
		14.37 ± 0.08	14.40 ± 0.03	14.45 ± 0.05
C1QC	complement component 1 q subcomponent C chain	14.33 ± 0.06	14.40 ± 0.03	14.62 ± 0.07*
		13.48 ± 0.08	13.51 ± 0.03	13.67 ± 0.06*

Gene symbol	Annotation	SIRS+	sepsis survivors	sepsis nonsurvivor
C1R	complement component 1 r subcomponent	13.54 ± 0.04	13.51 ± 0.01	13.82 ± 0.07*
		13.11 ± 0.05	13.11 ± 0.03	13.17 ± 0.03
C1RL	complement component 1 r subcomponent-like	13.61 ± 0.05	13.55 ± 0.02	13.82 ± 0.05*
		12.49 ± 0.01	12.56 ± 0.00	12.53 ± 0.01
C2	complement component 2	17.06 ± 0.12	16.80 ± 0.08	16.36 ± 0.12*
		14.06 ± 0.05	14.09 ± 0.04	14.18 ± 0.05
C3	complement component 3	14.70 ± 0.04	14.61 ± 0.02	14.80 ± 0.09*
		13.42 ± 0.04	13.35 ± 0.02	13.29 ± 0.04
C4A	complement component 4A (Rodgers blood group)	14.30 ± 0.05	14.26 ± 0.03	14.60 ± 0.09*
		13.35 ± 0.06	13.37 ± 0.04	13.33 ± 0.06
C4B	complement component 4B (Chido blood group)	14.36 ± 0.05	14.31 ± 0.03	14.66 ± 0.09*
		13.38 ± 0.06	13.40 ± 0.04	13.36 ± 0.06
C4BPA	complement component 4 binding protein alpha	14.88 ± 0.07	14.87 ± 0.03	14.73 ± 0.08
		14.11 ± 0.05	14.03 ± 0.03	14.16 ± 0.04*
C4BPB	complement component 4 binding protein beta	14.10 ± 0.04	14.07 ± 0.02	13.95 ± 0.06
		13.74 ± 0.04	13.56 ± 0.04*	13.60 ± 0.05
C5	complement component 5	13.04 ± 0.05	12.98 ± 0.01	13.45 ± 0.11*
		11.79 ± 0.06	11.84 ± 0.04	11.74 ± 0.04
C6	complement component 6	13.74 ± 0.04	13.70 ± 0.02	13.86 ± 0.07*
		12.93 ± 0.04	12.86 ± 0.02	12.84 ± 0.03
C7	complement component 7	13.77 ± 0.09	13.61 ± 0.02	14.04 ± 0.08*
		N/D	N/D	N/D
C8A	complement component 8 alpha polypeptide	14.01 ± 0.03	14.04 ± 0.02	14.12 ± 0.04
		13.46 ± 0.04	13.60 ± 0.02*	13.55 ± 0.05
C9	complement component 9	13.49 ± 0.03	13.47 ± 0.01	13.81 ± 0.09*
		13.06 ± 0.04	13.12 ± 0.03	13.09 ± 0.03
CENPF	centromere protein F 350/400ka (mitosin)	N/D	N/D	N/D
		14.59 ± 0.11	14.28 ± 0.06*	14.06 ± 0.09
CFB	complement factor B	14.56 ± 0.03	14.50 ± 0.02	14.64 ± 0.06*
		13.79 ± 0.03	13.78 ± 0.02	13.70 ± 0.04
CFP	complement factor properdin	14.72 ± 0.04	14.74 ± 0.03	14.55 ± 0.06*
		13.02 ± 0.05	13.04 ± 0.02	13.02 ± 0.04
CLU	clusterin	14.45 ± 0.05	14.28 ± 0.02*	14.35 ± 0.04
		14.17 ± 0.05	14.05 ± 0.03*	13.92 ± 0.03
COL11A2	collagen type XI alpha 2	14.23 ± 0.10	14.17 ± 0.05	13.82 ± 0.07*
		13.50 ± 0.07	13.28 ± 0.03*	13.25 ± 0.06
COL7A1	collagen type VII alpha 1	14.92 ± 0.16	15.06 ± 0.10	15.19 ± 0.14
		13.17 ± 0.05	13.37 ± 0.05*	13.34 ± 0.04
CP	ceruloplasmin (ferroxidase)	14.55 ± 0.05	14.38 ± 0.03*	14.50 ± 0.06
		13.80 ± 0.04	13.67 ± 0.03*	13.74 ± 0.05
CPN1	carboxypeptidase N polypeptide 1	13.71 ± 0.05	13.67 ± 0.02	13.83 ± 0.08*
		11.98 ± 0.11	12.00 ± 0.04	12.03 ± 0.07
CPN2	carboxypeptidase N polypeptide 2	12.65 ± 0.03	12.67 ± 0.03	12.78 ± 0.06
		13.20 ± 0.04	13.34 ± 0.03	13.19 ± 0.04*

Gene symbol	Annotation	SIRS+	sepsis survivors	sepsis nonsurvivor
CRP	C-reactive protein pentraxin-related	13.45 ± 0.11	13.92 ± 0.06*	14.51 ± 0.17*
		14.09 ± 0.10	14.73 ± 0.06*	14.58 ± 0.09
CST3	cystatin C	14.38 ± 0.08	14.35 ± 0.04	14.64 ± 0.07*
		12.87 ± 0.06	12.88 ± 0.03	13.04 ± 0.05*
DEFA1	defensin alpha 1	13.29 ± 0.16	13.34 ± 0.09	13.97 ± 0.24*
		10.71 ± 0.05	10.96 ± 0.05*	11.12 ± 0.10
F12	coagulation factor XII (Hageman factor)	13.92 ± 0.05	13.73 ± 0.03*	13.79 ± 0.07
		13.91 ± 0.06	13.69 ± 0.04*	13.76 ± 0.06
F2	coagulation factor II (thrombin)	14.13 ± 0.03	14.15 ± 0.02	14.20 ± 0.03
		13.41 ± 0.05	13.32 ± 0.02	13.40 ± 0.03*
FABP4	Fatty Acid Binding Protien, 4	15.01 ± 0.10	14.79 ± 0.05	15.24 ± 0.12*
FCGBP	Fc fragment of IgG binding protein	13.66 ± 0.04	13.60 ± 0.02	13.86 ± 0.08*
		13.45 ± 0.05	13.65 ± 0.03*	13.74 ± 0.07
FGB	fibrinogen beta chain	14.46 ± 0.06	14.66 ± 0.04	14.43 ± 0.07
		14.28 ± 0.05	14.42 ± 0.02*	14.35 ± 0.04
FN1	fibronectin 1	14.14 ± 0.06	13.95 ± 0.04	13.74 ± 0.06*
		13.47 ± 0.06	13.25 ± 0.03*	13.40 ± 0.07
GC	group-specific component (vitamin D binding protein)	15.17 ± 0.07	15.15 ± 0.04	14.56 ± 0.16*
		N/D	N/D	N/D
GSN	gelsolin (amyloidosis Finnish type)	14.07 ± 0.05	13.92 ± 0.02*	13.99 ± 0.06
		12.65 ± 0.05	12.63 ± 0.02	12.54 ± 0.03
HPX	hemopexin	14.82 ± 0.07	14.88 ± 0.03	14.68 ± 0.07*
		13.84 ± 0.05	13.87 ± 0.03	13.76 ± 0.05
HRG	histidine-rich glycoprotein	14.25 ± 0.08	14.21 ± 0.05	13.77 ± 0.07*
		13.43 ± 0.08	13.28 ± 0.05	12.98 ± 0.07*
IGFBP4	insulin-like growth factor binding protein 4	13.70 ± 0.06	13.68 ± 0.04	13.96 ± 0.07*
		12.18 ± 0.09	12.05 ± 0.06	12.12 ± 0.11
ITIH1	inter-alpha (globulin) inhibitor H1	14.03 ± 0.06	13.95 ± 0.03	13.93 ± 0.07
		13.09 ± 0.05	13.02 ± 0.03	12.89 ± 0.04*
ITIH3	inter-alpha (globulin) inhibitor H3	13.79 ± 0.05	13.89 ± 0.02	14.07 ± 0.06*
		12.76 ± 0.03	12.86 ± 0.02	12.86 ± 0.03
ITIH4	inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein)	14.17 ± 0.04	14.16 ± 0.02	14.29 ± 0.03*
		13.64 ± 0.04	13.69 ± 0.02	13.74 ± 0.04
KHSRP	KH-type splicing regulatory protein	15.28 ± 0.26	15.30 ± 0.15	15.06 ± 0.26
		14.56 ± 0.07	14.74 ± 0.04*	14.83 ± 0.05
KIF19	kinesin family member 19	N/D	N/D	N/D
		15.57 ± 0.09	15.97 ± 0.05*	15.87 ± 0.06
KLKB1	kallikrein B plasma (Fletcher factor) 1	13.68 ± 0.04	13.61 ± 0.02	13.49 ± 0.04*
		N/D	N/D	N/D
KNG1	kininogen 1	14.99 ± 0.03	14.89 ± 0.02	14.75 ± 0.04*
		14.00 ± 0.04	13.87 ± 0.03*	13.76 ± 0.03*
LBP	lipopolysaccharide binding protein	13.99 ± 0.06	14.54 ± 0.05*	14.46 ± 0.09
		13.04 ± 0.06	13.46 ± 0.05*	13.38 ± 0.08

Gene symbol	Annotation	SIRS+	sepsis survivors	sepsis nonsurvivor
LCN2	lipocalin 2	13.51 ± 0.07	13.61 ± 0.04	13.66 ± 0.08
		11.82 ± 0.07	12.01 ± 0.05*	12.24 ± 0.09
LCP1	lymphocyte cytosolic protein 1 (L-plastin)	12.27 ± 0.05	12.25 ± 0.03	12.48 ± 0.06*
		12.19 ± 0.04	12.31 ± 0.04	12.46 ± 0.06
LGALS3BP	lectin galactoside-binding soluble 3 binding protein	12.70 ± 0.06	12.61 ± 0.02	12.88 ± 0.08*
		11.60 ± 0.08	11.46 ± 0.03	11.61 ± 0.09
LRG1	leucine-rich alpha-2-glycoprotein 1	14.01 ± 0.06	14.31 ± 0.03*	14.27 ± 0.06
		13.58 ± 0.08	13.85 ± 0.04*	13.90 ± 0.06
LUM	lumican	14.29 ± 0.08	13.93 ± 0.04*	14.04 ± 0.09
		13.47 ± 0.08	13.33 ± 0.04	13.46 ± 0.07
LYZL4	lysozyme-like 4	N/D	N/D	N/D
		14.01 ± 0.05	14.18 ± 0.02*	14.24 ± 0.04
MB	myoglobin	11.63 ± 0.10	11.55 ± 0.04	11.70 ± 0.09
		12.29 ± 0.06	12.35 ± 0.03	12.62 ± 0.07*
MBL2	mannose-binding lectin (protein C) 2 soluble (opsonic defect)	13.19 ± 0.05	13.16 ± 0.03	13.23 ± 0.06
		13.17 ± 0.11	13.11 ± 0.07	13.59 ± 0.11*
MYO18B	myosin XVIIIB	12.11 ± 0.05	12.27 ± 0.05	12.05 ± 0.07
		14.45 ± 0.07	14.24 ± 0.05*	14.12 ± 0.05
NID1	nidogen 1	N/D	N/D	N/D
		14.37 ± 0.06	14.25 ± 0.04	14.44 ± 0.05*
ORM1	orosomucoid 1	14.42 ± 0.11	14.71 ± 0.06	14.88 ± 0.11
		13.63 ± 0.07	13.80 ± 0.04	14.03 ± 0.06*
PGLYRP2	peptidoglycan recognition protein 2	12.87 ± 0.07	12.70 ± 0.03*	12.76 ± 0.08
		12.05 ± 0.06	11.85 ± 0.04*	11.65 ± 0.04*
PIGR	polymeric immunoglobulin receptor	N/D	N/D	N/D
		12.90 ± 0.10	12.74 ± 0.04	13.02 ± 0.08*
PLG	plasminogen	14.36 ± 0.04	14.30 ± 0.03	14.07 ± 0.04*
		14.02 ± 0.03	13.92 ± 0.02*	13.79 ± 0.02*
PON1	paraoxonase 1	13.54 ± 0.05	13.52 ± 0.02	13.34 ± 0.04*
		12.59 ± 0.05	12.46 ± 0.04	12.21 ± 0.04*
RBMX	RNA binding motif protein X-linked	15.11 ± 0.18	15.07 ± 0.10	15.31 ± 0.17
		13.77 ± 0.14	13.88 ± 0.08	14.29 ± 0.10*
S100A9	S100 calcium binding protein A9	13.22 ± 0.11	13.38 ± 0.06	13.57 ± 0.10
		12.29 ± 0.07	12.53 ± 0.06*	12.92 ± 0.12*
SAA1	serum amyloid A1	13.72 ± 0.07	13.64 ± 0.04*	13.47 ± 0.04
		12.47 ± 0.11	13.27 ± 0.07*	12.96 ± 0.12
SAA1 (2)	serum amyloid A1	N/D	N/D	N/D
		12.72 ± 0.12	13.55 ± 0.08*	13.22 ± 0.12
SAA3P	serum amyloid A3 pseudogene	13.38 ± 0.08	13.96 ± 0.06*	13.92 ± 0.13
		12.91 ± 0.15	13.86 ± 0.09*	13.58 ± 0.16
SDHD	Succinate dehydrogenase [ubiquinone] cytochrome b small subunit, mitochondrial precursor	15.43 ± 0.25	15.22 ± 0.13	16.11 ± 0.24*
		N/D	N/D	N/D
SEPP1	selenoprotein P plasma 1	13.23 ± 0.06	12.96 ± 0.04*	12.84 ± 0.09
		12.77 ± 0.07	12.64 ± 0.04	12.70 ± 0.06

Gene symbol	Annotation	SIRS+	sepsis survivors	sepsis nonsurvivor
SERPINA1	serpin peptidase inhibitor clade A (alpha-1 antiproteinase antitrypsin) member 1	N/D	N/D	N/D
		13.58 ± 0.07	13.87 ± 0.04*	14.03 ± 0.05
SERPINA3	serpin peptidase inhibitor clade A (alpha-1 antiproteinase antitrypsin) member 3	14.25 ± 0.05	14.52 ± 0.04*	14.63 ± 0.05
		13.19 ± 0.04	13.50 ± 0.04*	13.52 ± 0.05
SERPINA7	serpin peptidase inhibitor clade A (alpha-1 antiproteinase antitrypsin) member 7	13.71 ± 0.05	13.54 ± 0.03*	13.52 ± 0.05
		13.83 ± 0.05	13.89 ± 0.03	13.93 ± 0.04
SERPINC1	serpin peptidase inhibitor clade C (antithrombin) member 1	14.71 ± 0.05	14.68 ± 0.02	14.51 ± 0.04*
		13.56 ± 0.05	13.47 ± 0.02	13.41 ± 0.04
SERPINF1	serpin peptidase inhibitor clade F (alpha-2 antiplasmin pigment epithelium derived factor) member 1	13.39 ± 0.05	13.31 ± 0.02	13.63 ± 0.08*
		12.06 ± 0.04	12.15 ± 0.03	12.14 ± 0.05
SERPINF2	serpin peptidase inhibitor clade F (alpha-2 antiplasmin pigment epithelium derived factor) member 2	13.65 ± 0.03	13.72 ± 0.02	13.62 ± 0.03*
		12.44 ± 0.04	12.49 ± 0.02	12.39 ± 0.03*
SERPING1	serpin peptidase inhibitor clade G (C1 inhibitor) member 1	14.91 ± 0.06	14.84 ± 0.03	15.08 ± 0.07*
		13.79 ± 0.05	13.80 ± 0.03	13.89 ± 0.05
TF (1)	transferrin	14.17 ± 0.06	14.01 ± 0.03	13.88 ± 0.04*
		13.95 ± 0.09	13.52 ± 0.05*	13.39 ± 0.08
TF (2)	transferrin	14.62 ± 0.10	14.42 ± 0.05	14.33 ± 0.10
		13.93 ± 0.11	13.40 ± 0.07*	13.29 ± 0.10
TIMP1	TIMP metallopeptidase inhibitor 1	13.81 ± 0.06	13.80 ± 0.03	13.92 ± 0.05
		13.54 ± 0.04	13.68 ± 0.03*	13.89 ± 0.06*
TRIOBP (1)	TRIO and F-actin binding protein	N/D	N/D	N/D
		13.24 ± 0.08	13.39 ± 0.04*	13.60 ± 0.06*
TTN	Titin	14.39 ± 0.08	14.52 ± 0.03	14.25 ± 0.07*
		N/D	N/D	N/D
TTR	transthyretin	14.98 ± 0.12	14.90 ± 0.07	14.28 ± 0.09*
		13.83 ± 0.12	13.50 ± 0.07*	13.12 ± 0.08*
ULK4	unc-51-like kinase 4 (C. elegans)	15.07 ± 0.11	15.16 ± 0.04	14.80 ± 0.12*
		N/D	N/D	N/D
VSIG4	V-set and immunoglobulin domain containing 4	12.41 ± 0.06	12.48 ± 0.03	12.53 ± 0.07
		12.30 ± 0.08	12.23 ± 0.05	12.49 ± 0.09*
VTN	Vitronectin	13.77 ± 0.04	13.93 ± 0.03	13.75 ± 0.04*
		13.59 ± 0.06	13.76 ± 0.04	13.68 ± 0.05

Table S10. Plasma protein-metabolite correlations. Concordant at t0 and t24 and statistically significant (combined -log10 p-value ≥ 6.03). Pairwise Pearson product-moment correlations of 162 log-transformed, annotated plasma proteins and 332 metabolites in 132 subjects at t0 and t24. 18 subjects at t0 were not included within this analysis because there was not a matched value at t24. Excluded were sparse metabolites (detected in <50% of patients) and metabolites or proteins that did not have a reported value at both t0 and t24.

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
B2M	N6_carbamoylthreonyladenosine	0.82	37.51	0.88	42.43	79.94
AMBP	X_11334	0.81	35.73	0.86	38.08	73.81
B2M	N2_N2_dimethylguanosine	0.82	36.26	0.84	35.18	71.44
B2M	erythronate	0.82	36.92	0.82	32.96	69.88
B2M	X_11334	0.80	33.79	0.84	35.87	69.66
B2M	xylonate	0.82	36.42	0.81	31.20	67.62
B2M	X_04507	0.82	37.46	0.80	29.38	66.85
AMBP	N6_carbamoylthreonyladenosine	0.81	34.89	0.81	31.59	66.48
AMBP	X_12117	0.80	34.09	0.82	32.08	66.17
B2M	X_12117	0.80	34.44	0.80	29.61	64.06
B2M	arabitol	0.82	37.05	0.77	26.19	63.24
B2M	X_11687	0.78	30.77	0.82	32.37	63.14
AMBP	creatinine	0.81	35.91	0.78	27.05	62.96
AMBP	xylonate	0.82	36.43	0.77	26.14	62.57
AMBP	X_04507	0.81	35.95	0.77	26.41	62.36
AMBP	X_11826	0.75	27.60	0.83	34.43	62.03
AMBP	pyridoxate	0.75	27.65	0.83	34.27	61.92
B2M	four_acetamidobutanoate	0.77	30.10	0.82	31.68	61.78
B2M	X_03951	0.78	31.84	0.80	29.48	61.32
AMBP	phenylacetylglutamine	0.78	30.87	0.80	30.01	60.88
RNASE1	N6_carbamoylthreonyladenosine	0.75	27.80	0.82	32.57	60.37
B2M	X_11423	0.77	30.06	0.80	30.30	60.36
B2M	pseudouridine	0.80	34.47	0.77	25.82	60.30
AMBP	X_03951	0.79	32.79	0.78	26.78	59.58
RNASE1	erythronate	0.76	28.94	0.80	30.04	58.97
AMBP	threitol	0.79	32.89	0.77	25.95	58.84
AMBP	erythronate	0.80	33.90	0.75	24.50	58.40
B2M	X_12688	0.74	26.47	0.82	31.64	58.11
AMBP	arabitol	0.81	36.02	0.73	22.02	58.04
AMBP	gulono_1_4_lactone	0.76	28.26	0.80	29.74	58.00
B2M	X_10359	0.76	29.18	0.79	28.07	57.25
RNASE1	X_11334	0.74	26.93	0.80	30.29	57.21
PTGDS	X_11334	0.72	24.65	0.82	32.46	57.11
AMBP	N2_N2_dimethylguanosine	0.77	30.57	0.77	26.22	56.79
AMBP	X_10359	0.78	31.37	0.76	25.42	56.79
B2M	X_12742	0.74	26.80	0.80	29.71	56.51
AMBP	X_11423	0.78	31.03	0.76	24.81	55.83
B2M	X_12100	0.76	29.18	0.77	26.64	55.82
RNASE1	X_03951	0.75	27.53	0.79	28.20	55.74
B2M	threitol	0.78	30.98	0.75	24.53	55.51
RNASE1	X_11423	0.74	26.28	0.80	29.07	55.36
B2M	X_11429	0.74	27.00	0.79	28.15	55.15
AMBP	three_indoxyl_sulfate	0.75	27.92	0.78	27.19	55.11
B2M	erythritol	0.78	31.27	0.74	23.11	54.37
AMBP	X_12405	0.75	28.02	0.77	26.19	54.21
RNASE1	N2_N2_dimethylguanosine	0.72	24.67	0.80	29.29	53.95
B2M	one_methylimidazoleacetate	0.79	32.40	0.72	21.52	53.92
B2M	phenylacetylglutamine	0.74	26.03	0.78	27.20	53.22
B2M	creatinine	0.76	29.02	0.75	24.03	53.05

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
B2M	N_acetylalanine	0.77	29.97	0.73	22.75	52.72
RNASE1	X_12117	0.74	26.43	0.77	26.07	52.51
RNASE1	xylonate	0.73	25.59	0.77	26.58	52.18
RNASE1	X_11687	0.70	22.74	0.80	29.42	52.16
B2M	X_12695	0.74	26.31	0.76	25.38	51.69
RNASE1	pseudouridine	0.74	26.95	0.76	24.73	51.69
B2M	allantoin	0.79	31.97	0.70	19.64	51.61
AMBP	X_12742	0.75	27.35	0.75	24.20	51.55
RNASE1	X_12742	0.72	24.42	0.78	27.12	51.53
B2M	X_11826	0.71	23.26	0.79	28.23	51.49
PTGDS	X_12117	0.76	28.39	0.73	22.69	51.08
PTGDS	N6_carbamoylthreonyladenosine	0.74	26.64	0.75	24.43	51.08
RNASE1	arabitol	0.74	26.37	0.75	24.47	50.84
RNASE1	four_acetamidobutanoate	0.71	23.26	0.78	26.99	50.25
PTGDS	creatinine	0.72	24.17	0.77	26.05	50.22
AMBP	X_12104	0.74	27.05	0.74	22.87	49.92
PTGDS	X_11826	0.71	23.78	0.77	25.87	49.65
AMBP	hippurate	0.78	31.44	0.68	18.18	49.62
RNASE1	X_04507	0.74	26.24	0.74	23.38	49.62
PTGDS	N2_N2_dimethylguanosine	0.73	25.94	0.74	23.52	49.47
PTGDS	X_12742	0.70	22.77	0.77	26.60	49.37
RNASE1	one_methylimidazoleacetate	0.71	23.17	0.77	25.83	49.00
AMBP	pseudouridine	0.77	30.07	0.68	18.59	48.66
PTGDS	X_04507	0.76	28.85	0.70	19.61	48.46
RNASE1	N_acetylalanine	0.71	23.91	0.75	24.29	48.21
B2M	gulono_1_4_lactone	0.70	23.03	0.76	25.15	48.18
RNASE1	phenylacetylglutamine	0.69	21.70	0.77	26.29	47.99
B2M	pyridoxate	0.69	22.19	0.77	25.70	47.89
PTGDS	pyridoxate	0.69	21.56	0.77	26.04	47.60
RNASE1	X_11429	0.67	20.16	0.78	27.16	47.32
PTGDS	xylonate	0.73	25.04	0.73	22.18	47.22
B2M	X_10483	0.70	22.54	0.75	24.66	47.20
AMBP	X_11687	0.72	24.15	0.73	22.71	46.86
AMBP	four_acetamidobutanoate	0.71	23.91	0.74	22.85	46.77
RNASE1	erythritol	0.71	23.87	0.73	22.27	46.15
PTGDS	X_03951	0.74	26.07	0.70	19.83	45.90
PTGDS	erythronate	0.73	25.49	0.71	20.26	45.75
PTGDS	X_11423	0.73	25.31	0.71	20.43	45.75
RNASE1	X_12101	0.71	23.73	0.72	21.81	45.54
B2M	three_indoxyl_sulfate	0.70	22.65	0.74	22.81	45.47
RNASE1	creatinine	0.73	25.13	0.70	20.09	45.22
RNASE1	X_12688	0.67	20.28	0.76	24.74	45.01
B2M	X_12405	0.69	21.69	0.74	23.31	45.00
RNASE1	X_10359	0.69	22.14	0.74	22.82	44.96
B2M	hippurate	0.74	26.85	0.67	17.81	44.66
AMBP	X_05426	0.75	28.04	0.65	16.40	44.44
PTGDS	phenylacetylglutamine	0.69	22.19	0.73	22.18	44.36
AMBP	erythritol	0.75	27.19	0.66	17.10	44.29
B2M	X_12101	0.69	21.78	0.73	22.03	43.81
PTGDS	X_10359	0.69	21.88	0.72	21.61	43.49
PTGDS	X_12405	0.69	21.51	0.73	21.98	43.49
PTGDS	arabitol	0.73	25.21	0.68	18.26	43.47
RNASE1	X_12695	0.69	21.71	0.72	21.69	43.40
RNASE1	threitol	0.70	22.38	0.71	20.93	43.31
HBB	heme	0.55	12.45	0.81	30.75	43.20
B2M	X_05522	0.67	20.29	0.73	22.70	42.99

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
PTGDS	four_acetamidobutanoate	0.70	23.08	0.70	19.67	42.76
PTGDS	X_11687	0.68	21.21	0.72	21.41	42.62
AMBP	X_12695	0.70	23.10	0.69	19.35	42.45
AMBP	X_05522	0.67	19.78	0.73	22.63	42.41
PTGDS	X_12100	0.73	25.78	0.65	16.06	41.84
RNASE1	X_12405	0.67	20.03	0.72	21.74	41.77
APOA2	X_10395	0.72	24.53	0.66	17.21	41.74
PTGDS	X_12695	0.72	24.24	0.66	17.30	41.54
PTGDS	threitol	0.70	22.84	0.68	18.65	41.49
RNASE1	X_11826	0.63	17.56	0.75	23.78	41.34
CST3	N_acetylalanine	0.68	21.05	0.70	20.20	41.25
RNASE1	X_10483	0.64	17.99	0.74	23.16	41.15
AMBP	one_methylimidazoleacetate	0.73	25.37	0.64	15.62	40.99
PTGDS	three_indoxyl_sulfate	0.64	18.12	0.74	22.83	40.95
B2M	X_05426	0.72	24.57	0.65	16.33	40.90
PTGDS	pseudouridine	0.74	26.66	0.61	13.96	40.61
AMBP	X_12100	0.70	22.83	0.67	17.41	40.24
AMBP	X_12217	0.64	18.14	0.73	22.06	40.20
B2M	X_04504	0.70	23.09	0.66	17.01	40.11
PTGDS	X_12688	0.69	21.40	0.68	18.63	40.03
RNASE1	X_12100	0.69	22.05	0.67	17.92	39.97
B2M	SDMA	0.63	17.53	0.73	22.37	39.90
PTGDS	gulono_1_4_lactone	0.67	19.86	0.69	19.33	39.19
CST3	N2_N2_dimethylguanosine	0.67	20.01	0.69	19.07	39.09
RNASE1	glutaroylcarnitine	0.64	17.99	0.71	21.06	39.05
AMBP	X_11593	0.66	19.56	0.69	19.29	38.85
AMBP	X_11429	0.66	19.65	0.69	19.19	38.84
AMBP	glutaroylcarnitine	0.67	20.10	0.68	18.63	38.74
PTGDS	X_05426	0.72	24.30	0.62	14.42	38.71
RNASE1	three_indoxyl_sulfate	0.64	18.26	0.71	20.40	38.66
PTGDS	hippurate	0.73	25.09	0.60	13.37	38.46
CST3	N6_carbamoylthreonyladenosine	0.63	17.01	0.72	21.45	38.45
B2M	X_12794	0.64	17.63	0.71	20.43	38.06
RNASE1	gulono_1_4_lactone	0.65	18.77	0.69	19.20	37.97
AMBP	X_12749	0.67	20.44	0.67	17.42	37.87
CST3	X_11687	0.64	17.86	0.70	19.89	37.75
B2M	X_12749	0.66	19.38	0.68	18.34	37.73
CST3	erythronate	0.64	17.75	0.70	19.95	37.69
RNASE1	pyridoxate	0.64	17.93	0.69	19.28	37.21
AMBP	X_12206	0.68	21.36	0.64	15.76	37.12
AMBP	threonate	0.67	19.83	0.66	17.12	36.96
B2M	X_12217	0.61	16.22	0.71	20.73	36.95
B2M	glutaroylcarnitine	0.63	17.54	0.69	19.19	36.73
AMBP	X_04629	0.64	17.94	0.68	18.67	36.60
PTGDS	one_methylimidazoleacetate	0.67	20.51	0.65	16.10	36.60
B2M	X_12104	0.65	18.54	0.68	18.04	36.59
RNASE1	X_12104	0.65	19.00	0.67	17.54	36.53
RNASE1	X_05522	0.62	16.56	0.70	19.89	36.45
PTGDS	erythritol	0.69	21.41	0.63	14.96	36.37
RNASE1	X_12794	0.57	13.70	0.73	22.59	36.30
RNASE1	allantoin	0.67	19.96	0.65	16.12	36.09
RNASE1	SDMA	0.60	15.37	0.71	20.65	36.02
PTGDS	X_12217	0.60	15.33	0.71	20.68	36.01
B2M	X_04629	0.62	16.39	0.69	19.48	35.87
CST3	X_12100	0.67	19.81	0.65	16.05	35.87
CST3	X_03951	0.63	17.04	0.69	18.83	35.87

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
AMBP	X_12688	0.68	20.79	0.63	14.98	35.76
B2M	X_04498	0.69	21.63	0.61	14.08	35.71
PTGDS	allantoin	0.70	23.11	0.58	12.57	35.68
PTGDS	N_acetylalanine	0.68	21.17	0.62	14.43	35.60
CST3	pseudouridine	0.67	19.81	0.64	15.65	35.46
HBA1	heme	0.38	5.87	0.80	29.58	35.45
RNASE1	X_12749	0.64	17.65	0.67	17.78	35.43
B2M	N_acetylthreonine	0.69	21.39	0.61	13.98	35.37
AMBP	X_12611	0.68	21.30	0.61	14.04	35.34
B2M	X_12611	0.67	20.19	0.63	15.03	35.22
B2M	X_10266	0.67	20.16	0.63	14.98	35.14
AMBP	allantoin	0.70	22.75	0.58	12.27	35.02
CST3	four_acetamidobutanoate	0.63	17.02	0.67	17.93	34.95
PTGDS	X_04504	0.70	22.47	0.58	12.41	34.88
RNASE1	X_04504	0.67	20.08	0.62	14.75	34.83
AMBP	N_acetylalanine	0.69	21.69	0.59	13.09	34.78
CST3	X_10483	0.66	19.23	0.63	15.39	34.62
AMBP	X_04504	0.69	21.43	0.60	13.19	34.62
RNASE1	X_12611	0.64	17.88	0.65	16.56	34.43
TTR	X_10395	0.67	20.36	0.61	14.04	34.40
PTGDS	X_11429	0.65	18.82	0.64	15.51	34.33
CST3	xylonate	0.61	16.06	0.68	18.15	34.21
B2M	X_12095	0.67	20.53	0.60	13.63	34.16
CST3	X_12117	0.60	15.10	0.69	19.02	34.12
AMBP	X_10266	0.68	20.90	0.60	13.21	34.11
CST3	X_11423	0.58	14.40	0.69	19.46	33.86
AMBP	X_12794	0.58	14.40	0.69	19.34	33.74
CST3	X_11334	0.55	12.57	0.72	21.07	33.64
RNASE1	N_acetylthreonine	0.62	16.44	0.66	16.96	33.39
B2M	arabinose	0.62	16.42	0.66	16.68	33.10
B2M	X_11593	0.61	16.04	0.66	17.03	33.07
B2M	X_12860	0.61	15.76	0.66	17.30	33.06
RNASE1	X_12860	0.61	15.72	0.66	17.31	33.03
PTGDS	X_10483	0.64	17.67	0.63	15.26	32.93
CST3	one_methylimidazoleacetate	0.59	14.54	0.68	18.36	32.90
CST3	X_04507	0.62	16.75	0.64	15.83	32.58
B2M	X_04499	0.67	20.04	0.58	12.38	32.43
CST3	allantoin	0.66	19.44	0.59	12.99	32.42
CST3	erythritol	0.62	16.78	0.64	15.57	32.35
CST3	arabitol	0.62	16.47	0.64	15.82	32.29
CST3	X_12688	0.61	16.04	0.65	16.19	32.23
RNASE1	X_10266	0.62	16.50	0.64	15.71	32.22
HBZ	heme	0.42	7.20	0.76	24.91	32.10
AMBP	X_11261	0.65	18.84	0.60	13.24	32.08
B2M	X_12099	0.68	21.20	0.54	10.75	31.95
HBD	heme	0.39	6.25	0.76	25.52	31.77
AMBP	X_10483	0.61	15.69	0.64	16.00	31.69
CST3	X_12742	0.56	13.28	0.68	18.38	31.66
CST3	X_11429	0.62	16.54	0.63	15.10	31.64
PTGDS	X_12749	0.65	18.78	0.58	12.63	31.41
B2M	X_13553	0.62	16.85	0.62	14.48	31.33
AMBP	X_12101	0.65	18.74	0.58	12.57	31.30
AMBP	X_11315	-0.61	16.05	-0.63	15.20	31.26
CST3	phenylacetylglutamine	0.54	12.09	0.69	18.87	30.96
CST3	X_12695	0.61	15.66	0.63	15.03	30.68
B2M	X_12206	0.65	18.39	0.58	12.27	30.65

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
PTGDS	glutaroylcarnitine	0.60	15.40	0.63	15.18	30.58
PTGDS	X_12101	0.64	17.60	0.59	12.89	30.49
PTGDS	X_05522	0.60	15.48	0.63	14.99	30.47
RNASE1	arabinose	0.60	15.11	0.63	15.33	30.44
RNASE1	X_04498	0.62	16.87	0.60	13.56	30.43
PTGDS	X_10266	0.64	17.91	0.58	12.51	30.42
RNASE1	hippurate	0.62	16.63	0.61	13.75	30.38
AMBP	X_02249	0.63	17.44	0.59	12.72	30.15
CST3	X_13553	0.64	17.77	0.57	12.04	29.81
APOA1	X_10395	0.61	16.02	0.61	13.76	29.78
AMBP	X_12092	0.61	16.23	0.60	13.42	29.65
B2M	X_12802	0.55	12.47	0.66	17.08	29.56
PTGDS	X_04629	0.58	14.05	0.64	15.46	29.51
CST3	X_12101	0.59	14.84	0.62	14.64	29.48
CST3	SDMA	0.63	17.12	0.58	12.30	29.41
CST3	X_12794	0.56	13.28	0.64	16.00	29.28
RNASE1	X_05426	0.62	16.83	0.58	12.19	29.02
RNASE1	X_04629	0.55	12.66	0.65	16.26	28.92
CST3	X_04499	0.63	17.44	0.56	11.43	28.87
RNASE1	X_12095	0.58	14.13	0.62	14.65	28.78
RNASE1	X_11593	0.55	12.60	0.64	15.77	28.36
RNASE1	X_04499	0.60	15.44	0.58	12.63	28.07
PTGDS	X_12104	0.63	17.41	0.54	10.62	28.03
B2M	myo_inositol	0.60	15.58	0.58	12.41	27.99
B2M	X_12092	0.61	16.07	0.57	11.89	27.96
CST3	X_11826	0.51	10.46	0.67	17.46	27.92
B2M	mannitol	0.63	17.52	0.54	10.39	27.91
AMBP	myo_inositol	0.60	15.15	0.58	12.66	27.81
RNASE1	X_12217	0.53	11.46	0.65	16.19	27.66
CST3	threitol	0.56	13.18	0.62	14.35	27.53
AMBP	one_five_anhydroglucitol	-0.58	14.01	-0.60	13.45	27.46
AMBP	X_12095	0.59	14.96	0.58	12.33	27.30
PTGDS	X_02249	0.53	11.39	0.64	15.77	27.16
CST3	X_04498	0.64	17.99	0.50	9.09	27.07
PTGDS	X_11593	0.56	13.27	0.60	13.60	26.87
AMBP	arabinose	0.58	14.21	0.58	12.66	26.87
RNASE1	X_12802	0.50	10.08	0.66	16.78	26.86
AMBP	X_12099	0.66	19.02	0.46	7.60	26.63
CST3	X_10359	0.54	12.14	0.62	14.44	26.58
CST3	X_12860	0.56	12.86	0.60	13.70	26.57
PTGDS	X_12611	0.62	16.70	0.52	9.86	26.56
RNASE1	X_12099	0.61	15.66	0.55	10.89	26.55
AMBP	gluconate	0.68	21.35	0.38	5.09	26.44
RNASE1	X_13553	0.54	12.18	0.61	14.24	26.41
CST3	X_12611	0.57	13.34	0.59	13.00	26.34
CST3	gulono_1_4_lactone	0.53	11.44	0.63	14.84	26.28
PTGDS	threonate	0.56	13.10	0.59	13.12	26.22
PTGDS	X_12206	0.59	14.91	0.56	11.30	26.21
CST3	N_acetylthreonine	0.60	15.14	0.55	11.03	26.17
RNASE1	X_11261	0.60	15.42	0.54	10.72	26.14
CST3	pyridoxate	0.45	8.22	0.67	17.74	25.96
CST3	X_05522	0.52	11.14	0.62	14.50	25.64
B2M	X_11261	0.61	15.97	0.51	9.41	25.38
PTGDS	X_12095	0.61	15.65	0.52	9.73	25.38
CST3	arabinose	0.54	11.76	0.60	13.44	25.21
RNASE1	X_12206	0.60	15.27	0.53	9.92	25.19

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
CST3	X_04504	0.61	15.73	0.51	9.44	25.17
B2M	phenol_sulfate	0.56	12.93	0.58	12.17	25.10
PTGDS	X_12794	0.56	12.87	0.58	12.18	25.06
RNASE1	X_12092	0.56	13.15	0.57	11.85	25.01
CST3	glutaroylcarnitine	0.56	12.80	0.58	12.20	24.99
PTGDS	SDMA	0.57	13.77	0.55	11.13	24.91
RNASE1	urea	0.52	11.15	0.60	13.54	24.68
CST3	X_12802	0.52	11.02	0.60	13.60	24.62
CST3	X_12095	0.56	12.86	0.57	11.74	24.60
AMBP	X_11437	0.57	13.51	0.55	11.08	24.59
RNASE1	myo_inositol	0.56	12.84	0.57	11.69	24.53
B2M	threonate	0.58	13.86	0.54	10.66	24.52
PTGDS	myo_inositol	0.54	12.04	0.58	12.42	24.46
CST3	hippurate	0.55	12.64	0.56	11.61	24.25
VWF	X_11538	0.41	6.78	0.66	17.17	23.94
AMBP	quinate	0.55	12.65	0.56	11.28	23.94
CST3	creatinine	0.50	10.23	0.60	13.48	23.71
AMBP	X_04498	0.61	15.75	0.47	7.86	23.61
PTGDS	arabinose	0.59	14.45	0.51	9.15	23.60
AZGP1	X_12104	0.53	11.54	0.57	12.01	23.55
SAA1	X_11786	-0.52	11.02	-0.58	12.43	23.46
C7	taurochenodeoxycholate	0.53	11.43	0.57	11.83	23.26
APOE	cholesterol	0.57	13.62	0.52	9.63	23.25
B2M	X_11315	-0.54	12.03	-0.55	11.12	23.15
AMBP	SDMA	0.56	13.15	0.53	9.93	23.09
AMBP	pantothenate	0.49	9.73	0.60	13.32	23.06
B2M	N_acetylneuraminate	0.49	9.90	0.59	13.09	22.99
CST3	X_12405	0.48	9.49	0.60	13.31	22.80
APOB	cholesterol	0.49	9.84	0.59	12.95	22.79
AMBP	X_12802	0.49	9.82	0.59	12.81	22.63
PTGDS	X_04498	0.61	15.75	0.44	6.86	22.61
VWF	HPLA	0.60	15.18	0.45	7.21	22.39
CST3	X_12749	0.48	9.35	0.59	12.96	22.31
B2M	quinate	0.56	12.88	0.51	9.38	22.25
RNASE1	N_acetylneuraminate	0.44	7.80	0.62	14.44	22.24
AMBP	X_04499	0.57	13.76	0.49	8.43	22.19
PTGDS	indolelactate	0.54	11.91	0.53	10.20	22.10
B2M	prolylhydroxyproline	0.50	10.06	0.57	11.97	22.03
AMBP	carnitine	-0.50	10.29	-0.56	11.65	21.94
B2M	X_02249	0.57	13.56	0.48	8.35	21.91
PTGDS	X_12099	0.60	15.57	0.42	6.34	21.91
AMBP	phenol_sulfate	0.56	13.18	0.49	8.61	21.79
RNASE1	X_02249	0.54	12.21	0.52	9.57	21.79
LBP	one_linoleoyl_GPC	-0.52	11.25	-0.54	10.53	21.79
B2M	urea	0.56	13.18	0.49	8.56	21.74
RNASE1	X_03056	0.45	8.19	0.60	13.51	21.70
AMBP	N_acetylthreonine	0.59	14.95	0.43	6.66	21.61
CST3	N_acetylneuraminate	0.49	9.52	0.57	11.97	21.49
LGALS3BP	taurochenodeoxycholate	0.54	11.81	0.52	9.62	21.43
CST3	X_11593	0.41	6.89	0.62	14.49	21.38
CST3	X_12099	0.55	12.48	0.50	8.87	21.35
SAA3P	X_11786	-0.50	10.31	-0.55	11.03	21.33
PTGDS	X_11315	-0.54	12.17	-0.51	9.13	21.30
HPX	taurochenodeoxycholate	-0.54	11.94	-0.51	9.32	21.27
PTGDS	X_11261	0.54	11.78	0.51	9.47	21.25
CST3	X_12217	0.48	9.26	0.57	11.98	21.24

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
B2M	indolelactate	0.55	12.46	0.50	8.76	21.21
RBP4	pyridoxate	0.39	6.19	0.63	15.00	21.20
AMBP	X_12860	0.53	11.73	0.51	9.45	21.19
RNASE1	X_11315	-0.53	11.73	-0.51	9.46	21.19
CST3	prolylhydroxyproline	0.50	9.95	0.55	11.21	21.15
LBP	one_palmitoyl_GPC	-0.56	13.11	-0.47	7.99	21.10
B2M	X_03056	0.50	10.15	0.55	10.86	21.01
PTGDS	four_vinylphenol_sulfate	0.45	8.09	0.59	12.89	20.98
B2M	one_five_anhydroglucitol	-0.50	10.25	-0.54	10.72	20.98
GPX3	tyrosine	0.64	17.64	0.30	3.33	20.97
APOC3	X_08402	0.58	13.86	0.45	7.06	20.92
CST3	HPLA	0.61	15.99	0.37	4.90	20.89
CST3	three_indoxyl_sulfate	0.43	7.53	0.60	13.27	20.80
AMBP	X_11444	0.51	10.66	0.53	10.09	20.75
PPBP	AMP	0.61	15.74	0.37	4.98	20.72
APOA4	X_09789	0.55	12.56	0.48	8.14	20.70
KNG1	X_10395	0.54	11.76	0.50	8.88	20.64
ORM1	X_03056	0.54	12.03	0.49	8.59	20.62
RNASE1	indolelactate	0.54	12.08	0.49	8.54	20.62
AMBP	sucrose	0.47	8.98	0.56	11.61	20.59
AMBP	mannitol	0.58	14.42	0.42	6.16	20.58
CST3	myo_inositol	0.50	10.20	0.53	10.31	20.51
LBP	one_oleoyl_GPC	-0.52	10.85	-0.52	9.64	20.49
HPR	mannose	0.48	9.32	0.55	11.17	20.49
CST3	urea	0.53	11.52	0.50	8.95	20.46
RNASE1	mannitol	0.53	11.31	0.50	9.09	20.40
HPX	taurocholate	-0.52	11.25	-0.50	9.03	20.29
CFD	X_12742	0.51	10.43	0.52	9.85	20.28
CST3	X_10266	0.50	10.12	0.53	10.11	20.22
AMBP	catechol_sulfate	0.56	13.23	0.44	6.84	20.08
CST3	mannitol	0.54	12.22	0.47	7.83	20.05
AFM	X_10395	0.54	11.81	0.48	8.24	20.05
PTGDS	X_12092	0.53	11.32	0.49	8.73	20.05
SAA1	one_palmitoleoyl_GPC	-0.57	13.72	-0.42	6.24	19.96
GPX3	methionine	0.60	15.18	0.37	4.76	19.94
PTGDS	X_04499	0.57	13.69	0.42	6.10	19.80
AMBP	p_cresol_sulfate	0.53	11.51	0.48	8.27	19.78
AMBP	four_vinylphenol_sulfate	0.47	8.91	0.55	10.86	19.77
AMBP	prolylhydroxyproline	0.50	10.11	0.52	9.64	19.75
PTGDS	phenol_sulfate	0.52	11.15	0.49	8.60	19.75
C7	glycochenodeoxycholate	0.47	8.94	0.54	10.77	19.71
CFD	X_11334	0.49	9.53	0.53	10.16	19.69
CFD	creatinine	0.52	11.12	0.49	8.55	19.68
CST3	X_12104	0.42	7.14	0.58	12.49	19.63
CST3	X_04629	0.44	7.73	0.57	11.87	19.60
B2M	sucrose	0.49	9.89	0.52	9.68	19.57
APOC1	X_08402	0.51	10.71	0.50	8.85	19.57
CFHR2	X_03951	0.51	10.79	0.50	8.77	19.56
PTGDS	mannitol	0.60	15.35	0.34	4.14	19.49
VWF	octadecanedioate	0.41	6.77	0.59	12.67	19.44
AMBP	X_12844	0.48	9.12	0.53	10.31	19.43
CST3	X_12206	0.47	9.07	0.54	10.34	19.41
RNASE1	one_five_anhydroglucitol	-0.47	8.96	-0.54	10.43	19.39
PTGDS	N_acetylthreonine	0.57	13.48	0.41	5.89	19.37
C1QB	HPLA	0.60	15.24	0.34	4.09	19.33
PTGDS	carnitine	-0.48	9.40	-0.52	9.87	19.27

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
AZGP1	X_11423	0.51	10.65	0.49	8.59	19.23
CST3	X_03056	0.49	9.59	0.52	9.57	19.16
APOB	X_03094	0.50	10.00	0.50	9.11	19.11
LBP	one_stearoyl_GPC	-0.52	11.05	-0.48	8.04	19.09
PTGDS	X_13553	0.52	11.01	0.48	8.06	19.07
AZGP1	X_03951	0.50	10.27	0.50	8.79	19.06
CFD	X_04507	0.46	8.46	0.54	10.55	19.01
RNASE1	prolylhydroxyproline	0.45	8.11	0.55	10.87	18.98
LCN2	HPLA	0.46	8.65	0.53	10.21	18.86
AMBP	N_acetylneuraminate	0.45	8.30	0.54	10.51	18.81
RNASE1	sucrose	0.44	7.79	0.55	11.02	18.81
RNASE1	phosphate	0.41	6.67	0.57	12.13	18.81
AZGP1	threitol	0.49	9.71	0.50	9.02	18.73
LCN2	N2_N2_dimethylguanosine	0.47	8.80	0.52	9.85	18.65
VWF	hexadecanedioate	0.36	5.18	0.60	13.38	18.55
RNASE1	phenol_sulfate	0.48	9.34	0.51	9.13	18.47
LCN2	X_12794	0.45	8.30	0.53	10.17	18.46
RNASE1	X_04495	0.51	10.40	0.48	8.06	18.46
SAA1	one_stearoyl_GPC	-0.53	11.75	-0.44	6.69	18.44
LCN2	four_acetamidobutanoate	0.46	8.69	0.52	9.63	18.31
CST3	deoxycarnitine	0.54	12.18	0.42	6.09	18.27
PTGDS	quinate	0.45	8.15	0.53	10.06	18.21
CFD	N6_carbamoylthreonyladenosine	0.44	7.58	0.54	10.60	18.18
LGALS3BP	taurocholate	0.48	9.28	0.50	8.87	18.15
ULK4	taurochenodeoxycholate	-0.60	15.30	-0.27	2.82	18.12
SAA3P	one_palmitoleoyl_GPC	-0.56	13.03	-0.38	5.08	18.11
VTN	X_12095	-0.47	9.00	-0.50	9.09	18.09
RNASE1	threonate	0.51	10.43	0.46	7.64	18.07
B2M	gluconate	0.57	13.66	0.35	4.36	18.02
B2M	X_04495	0.51	10.73	0.45	7.19	17.93
CFD	erythronate	0.42	6.98	0.55	10.94	17.92
CST3	X_05426	0.52	11.08	0.44	6.84	17.92
RBP4	X_09789	0.44	7.83	0.53	10.09	17.92
HP	mannose	0.40	6.55	0.56	11.35	17.90
CFD	X_11423	0.40	6.33	0.56	11.56	17.90
REG1A	one_methylimidazoleacetate	0.36	5.32	0.58	12.57	17.89
ORM2	X_03056	0.49	9.85	0.48	8.03	17.88
CST3	tiglyl_carnitine	0.46	8.62	0.51	9.26	17.88
PTGDS	X_12860	0.47	8.97	0.50	8.90	17.88
LCN2	N_acetylalanine	0.45	8.21	0.52	9.62	17.83
RNASE1	gluconate	0.57	13.34	0.35	4.41	17.75
CFD	arabitol	0.44	7.63	0.53	10.12	17.74
APOC3	one_stearoylglycerol	0.54	11.99	0.40	5.70	17.69
B2M	X_11437	0.51	10.55	0.45	7.10	17.64
CFD	xylonate	0.43	7.48	0.53	10.15	17.63
LBP	one_palmitoleoyl_GPC	-0.52	11.23	-0.43	6.39	17.62
TIMP1	one_palmitoyl_GPC	-0.39	6.14	-0.56	11.47	17.62
AZGP1	xylonate	0.47	8.98	0.49	8.64	17.61
APOB	X_10744	0.47	8.95	0.49	8.62	17.57
C7	taurocholate	0.45	8.09	0.51	9.47	17.57
B2M	four_vinylphenol_sulfate	0.45	8.13	0.51	9.42	17.55
RNASE1	glutamylvaline	0.45	8.17	0.51	9.35	17.52
SAA3P	X_12794	0.49	9.62	0.47	7.86	17.48
LYZ	creatinine	0.60	15.24	0.24	2.21	17.44
CFHR2	phenylacetylglutamine	0.48	9.11	0.48	8.31	17.42
SAA1	mannose	0.48	9.44	0.47	7.98	17.41

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
FCGBP	octanoylcarnitine	0.45	8.09	0.51	9.24	17.34
AZGP1	urea	0.50	10.17	0.45	7.17	17.34
SAA1	one_palmitoyl_GPC	-0.55	12.34	-0.37	4.95	17.29
SAA3P	one_stearoyl_GPC	-0.53	11.31	-0.41	5.95	17.26
C7	X_14658	0.46	8.53	0.49	8.72	17.25
LCN2	one_palmitoyl_GPC	-0.32	4.12	-0.59	13.13	17.24
APOC1	X_03094	0.53	11.62	0.40	5.58	17.20
B2M	xylose	0.41	6.73	0.54	10.47	17.19
PTGDS	X_12802	0.46	8.50	0.49	8.68	17.18
AZGP1	X_04507	0.46	8.42	0.50	8.74	17.16
AMBP	xylose	0.38	5.81	0.56	11.34	17.15
RNASE1	p_cresol_sulfate	0.48	9.27	0.47	7.88	17.15
VTN	X_04498	-0.48	9.15	-0.47	8.00	17.15
CFD	X_12101	0.47	8.74	0.49	8.38	17.12
AZGP1	phenylacetylglutamine	0.48	9.17	0.47	7.95	17.12
RBP4	threitol	0.35	5.00	0.57	12.11	17.11
AMBP	p_acetamidophenylglucuronide	0.38	5.88	0.56	11.23	17.11
RBP4	creatinine	0.37	5.48	0.56	11.61	17.09
SAA3P	one_palmitoyl_GPC	-0.55	12.75	-0.35	4.33	17.08
PON1	X_10395	0.50	10.08	0.44	6.97	17.05
LCN2	X_10483	0.45	8.09	0.50	8.93	17.03
HPX	X_14658	-0.50	10.07	-0.44	6.93	16.99
RBP4	three_indoxyl_sulfate	0.37	5.63	0.56	11.36	16.99
ORM2	X_12794	0.46	8.50	0.49	8.49	16.99
RBP4	X_10359	0.37	5.53	0.56	11.43	16.96
CFHR2	gulono_1_4_lactone	0.51	10.45	0.43	6.49	16.93
RNASE1	quinate	0.46	8.39	0.49	8.54	16.93
APOC2	X_03094	0.49	9.67	0.45	7.25	16.93
RNASE1	tiglyl_carnitine	0.39	6.17	0.54	10.74	16.91
CFHR2	threitol	0.50	10.11	0.44	6.79	16.90
PTGDS	gluconate	0.53	11.73	0.38	5.14	16.87
PTGDS	three_methylhistidine	0.52	11.25	0.40	5.62	16.87
AMBP	glutamylvaline	0.53	11.48	0.39	5.38	16.86
AMBP	three_methylhistidine	0.50	10.02	0.44	6.84	16.86
AZGP1	X_12117	0.45	8.02	0.50	8.76	16.78
APOC3	X_06346	0.48	9.46	0.45	7.24	16.70
CFD	X_11687	0.42	7.21	0.51	9.47	16.68
CFD	phenylacetylglutamine	0.40	6.55	0.53	10.13	16.68
AZGP1	X_10359	0.48	9.25	0.46	7.43	16.68
RBP4	threonate	0.37	5.38	0.56	11.28	16.66
ORM1	tryptophan	-0.43	7.28	-0.51	9.36	16.64
CFD	X_10359	0.43	7.49	0.51	9.15	16.64
B2M	phosphate	0.42	6.93	0.52	9.69	16.62
RBP4	X_11334	0.37	5.44	0.55	11.13	16.57
APOD	X_10510	0.52	10.97	0.40	5.57	16.54
LGALS3BP	glycochenodeoxycholate	0.48	9.16	0.46	7.36	16.52
PTGDS	pantothenate	0.40	6.53	0.53	9.95	16.48
PTGDS	catechol_sulfate	0.44	7.62	0.50	8.86	16.47
LCN2	X_11687	0.44	7.65	0.50	8.79	16.45
ORM1	X_12794	0.47	8.94	0.46	7.50	16.44
PTGDS	sucrose	0.45	8.20	0.48	8.24	16.44
LCN2	N6_carbamoylthreonyladenosine	0.42	7.21	0.51	9.22	16.43
AZGP1	X_12095	0.41	6.77	0.52	9.66	16.42
AMBP	choline	0.44	7.79	0.49	8.60	16.39
B2M	pantothenate	0.44	7.75	0.49	8.60	16.34
C1QA	HPLA	0.51	10.60	0.40	5.71	16.31

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
AZGP1	arabitol	0.48	9.36	0.44	6.91	16.27
PTGDS	X_03056	0.50	10.12	0.42	6.08	16.21
C7	seven_HOCA	0.45	8.09	0.48	8.12	16.20
CFD	X_03951	0.39	6.02	0.53	10.16	16.19
CST3	X_12855	0.49	9.53	0.43	6.64	16.17
APOC1	X_06346	0.47	9.06	0.45	7.11	16.17
LYZ	X_05426	0.55	12.72	0.31	3.43	16.15
RNASE1	X_11444	0.47	8.96	0.45	7.19	16.15
CFD	allantoin	0.47	8.86	0.45	7.29	16.15
CFHR2	X_11423	0.48	9.17	0.44	6.96	16.14
LYZ	X_10359	0.57	13.49	0.26	2.64	16.13
AMBP	urea	0.49	9.79	0.42	6.31	16.10
LBP	one_arachidoyl_GPE	-0.48	9.24	-0.44	6.86	16.09
CFHR2	X_10359	0.50	10.16	0.41	5.93	16.09
LYZ	X_11334	0.57	13.59	0.25	2.48	16.07
PTGDS	urea	0.51	10.37	0.40	5.70	16.06
CFD	four_acetamidobutanoate	0.39	6.01	0.53	10.05	16.06
CES1	methionine	0.37	5.43	0.54	10.60	16.03
APOA2	X_06346	0.42	7.08	0.50	8.95	16.03
APOD	X_10744	0.48	9.15	0.44	6.88	16.03
LYZ	X_10395	0.38	5.69	0.53	10.32	16.02
RBP4	xylonate	0.35	5.08	0.55	10.93	16.01
CFD	threitol	0.41	6.82	0.51	9.18	16.00
CFD	N2_N2_dimethylguanosine	0.40	6.41	0.52	9.51	15.92
CST3	X_12092	0.43	7.42	0.49	8.49	15.91
PTGDS	one_five_anhydroglucitol	-0.50	10.07	-0.41	5.83	15.90
LYZ	X_04507	0.59	14.74	0.16	1.15	15.90
LCN2	SDMA	0.41	6.62	0.51	9.27	15.89
CFD	three_indoxyl_sulfate	0.45	7.94	0.47	7.93	15.87
SERPIND1	HPLA	-0.48	9.14	-0.44	6.69	15.84
AFM	X_11786	0.44	7.79	0.48	8.04	15.83
RBP4	X_04507	0.35	5.05	0.55	10.78	15.83
FCGBP	hexanoylcarnitine	0.46	8.53	0.45	7.30	15.83
SAA1	X_12794	0.47	8.98	0.44	6.85	15.83
APOA2	X_05907	0.44	7.80	0.48	8.01	15.81
B2M	carnitine	-0.42	6.92	-0.50	8.87	15.79
LYZ	threitol	0.56	13.03	0.27	2.75	15.78
B2M	p_cresol_sulfate	0.48	9.13	0.43	6.64	15.77
PTGDS	X_11437	0.48	9.49	0.42	6.28	15.77
RNASE1	cysteine	0.38	5.74	0.53	10.01	15.75
APOC3	one_palmitoylglycerol	0.55	12.69	0.29	3.06	15.75
LCN2	N_acetylthreonine	0.44	7.80	0.47	7.94	15.74
AZGP1	erythronate	0.47	8.91	0.44	6.81	15.72
IGFBP4	xylonate	0.52	11.22	0.35	4.44	15.66
REG1A	pseudouridine	0.37	5.38	0.53	10.27	15.65
B2M	tiglyl_carnitine	0.41	6.84	0.50	8.80	15.64
CFD	X_12405	0.44	7.78	0.47	7.85	15.63
RBP4	gulono_1_4_lactone	0.33	4.40	0.56	11.23	15.63
LBP	two_palmitoyl_GPC	-0.48	9.12	-0.43	6.47	15.59
RBP4	X_10395	0.46	8.54	0.45	7.04	15.58
RBP4	X_12117	0.32	4.27	0.56	11.30	15.57
B2M	choline	0.46	8.32	0.45	7.23	15.55
AMBP	X_03056	0.45	8.16	0.46	7.38	15.54
CFHR2	xylonate	0.49	9.80	0.40	5.73	15.53
LCP1	HPLA	0.52	11.21	0.35	4.30	15.51
ORM1	X_12611	0.46	8.63	0.44	6.87	15.51

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
CRP	one_palmitoyl_GPC	-0.49	9.80	-0.40	5.66	15.46
APOA2	X_12038	0.43	7.50	0.47	7.95	15.46
CST3	one_five_anhydroglucitol	-0.42	7.19	-0.48	8.25	15.44
CFD	N_acetylalanine	0.33	4.43	0.55	11.01	15.44
REG1A	X_11687	0.41	6.71	0.49	8.72	15.43
PTGDS	N_acetylneuraminate	0.42	6.91	0.49	8.51	15.43
CFD	X_12117	0.42	6.95	0.49	8.47	15.42
APCS	taurochenodeoxycholate	-0.50	10.21	-0.38	5.20	15.41
CST3	X_04495	0.49	9.51	0.41	5.90	15.41
REG1A	X_13553	0.40	6.56	0.50	8.83	15.39
TF	tryptophan	0.39	6.02	0.51	9.37	15.39
IGFBP4	erythritol	0.53	11.54	0.33	3.84	15.39
AZGP1	X_11334	0.44	7.77	0.46	7.59	15.36
APOD	X_06346	0.46	8.61	0.44	6.74	15.35
APOC3	X_10500	0.46	8.33	0.45	7.02	15.35
AMBP	X_11850	0.44	7.61	0.47	7.72	15.33
AZGP1	pyridoxate	0.44	7.58	0.47	7.73	15.32
CFHR2	X_04507	0.47	8.98	0.42	6.32	15.29
ORM1	X_11429	0.44	7.79	0.46	7.50	15.29
VTN	X_12688	-0.40	6.52	-0.50	8.75	15.26
APOD	X_08402	0.50	10.11	0.38	5.14	15.25
C1QB	X_10395	-0.54	12.07	-0.29	3.18	15.25
SERPIND1	alpha_hydroxyisovalerate	-0.41	6.88	-0.48	8.36	15.24
VSIG4	HPLA	0.38	5.79	0.51	9.45	15.24
CFHR2	three_indoxyl_sulfate	0.47	8.83	0.43	6.40	15.23
IGFBP4	erythronate	0.54	11.78	0.31	3.45	15.23
LGALS3BP	X_14658	0.45	8.12	0.45	7.09	15.21
RNASE1	pantothenate	0.44	7.63	0.46	7.57	15.20
B2M	glutamylvaline	0.47	9.01	0.42	6.12	15.12
RBP4	X_12217	0.34	4.64	0.54	10.47	15.11
SAA1	one_oleoyl_GPC	-0.49	9.66	-0.39	5.42	15.08
SAA1	one_linoleoyl_GPC	-0.47	9.05	-0.41	6.04	15.08
RBP4	catechol_sulfate	0.40	6.29	0.50	8.78	15.07
ICAM2	taurochenodeoxycholate	0.45	8.18	0.44	6.87	15.06
PTGDS	glutamylvaline	0.48	9.20	0.41	5.86	15.05
PTGDS	p_cresol_sulfate	0.39	5.96	0.50	9.08	15.04
ORM1	X_12104	0.34	4.69	0.54	10.34	15.04
CES1	tyrosine	0.37	5.54	0.51	9.49	15.03
CFHR2	X_05522	0.44	7.66	0.46	7.36	15.02
TIMP1	HPLA	0.50	10.03	0.37	4.96	14.99
AMBP	indolelactate	0.52	11.07	0.33	3.92	14.99
LYZ	arabitol	0.56	13.19	0.21	1.79	14.98
APOC3	X_10510	0.47	8.96	0.41	6.01	14.97
RBP4	X_11826	0.35	4.96	0.53	10.00	14.96
CFD	pseudouridine	0.38	5.85	0.50	9.11	14.96
CFHR2	creatinine	0.47	8.90	0.41	6.06	14.95
S100A8	tiglyl_carnitine	0.47	8.86	0.42	6.08	14.95
LYZ	xylonate	0.56	13.17	0.21	1.74	14.91
CFHR2	X_11334	0.46	8.50	0.43	6.41	14.90
CFD	X_11429	0.32	4.19	0.54	10.69	14.88
APOA4	three_methylhistidine	0.48	9.30	0.40	5.57	14.87
PRDX2	heme	0.30	3.66	0.55	11.20	14.86
ITIH1	X_10395	0.42	7.10	0.47	7.76	14.86
LYZ	X_11423	0.56	13.26	0.19	1.59	14.85
AZGP1	erythritol	0.48	9.10	0.40	5.73	14.84
PTGDS	X_07765	0.38	5.68	0.51	9.15	14.84

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
S100A8	X_12794	0.49	9.69	0.38	5.14	14.83
HRG	X_10395	0.48	9.30	0.40	5.53	14.83
APOC3	cholesterol	0.40	6.30	0.49	8.52	14.82
RNASE1	X_12844	0.45	8.20	0.43	6.60	14.79
CFHR2	arabitol	0.48	9.22	0.40	5.57	14.79
APOC3	X_03094	0.50	10.01	0.37	4.77	14.78
LCN2	X_12802	0.40	6.49	0.48	8.27	14.77
SAA3P	X_11440	0.46	8.33	0.43	6.43	14.76
CFD	erythritol	0.40	6.26	0.49	8.50	14.76
LCN2	X_13553	0.42	7.01	0.47	7.71	14.72
AFM	X_03056	-0.50	10.12	-0.36	4.56	14.67
ORM2	X_12104	0.34	4.75	0.53	9.92	14.67
LBP	one_arachidoyl_GPC	-0.43	7.41	-0.45	7.26	14.67
CST3	X_04595	0.41	6.74	0.47	7.91	14.65
AHSG	one_stearoyl_GPC	0.39	6.12	0.49	8.53	14.65
AMBP	X_13553	0.45	8.27	0.42	6.38	14.65
SAA1	X_11440	0.47	8.72	0.41	5.93	14.65
ORM1	X_12802	0.45	7.99	0.43	6.65	14.65
CFHR2	erythronate	0.46	8.66	0.41	5.97	14.64
SAA1	two_palmitoyl_GPC	-0.49	9.68	-0.37	4.94	14.62
VWF	alpha_hydroxyisovalerate	0.38	5.77	0.50	8.85	14.62
AMBP	X_07765	0.45	8.26	0.42	6.35	14.61
B2M	catechol_sulfate	0.50	10.23	0.35	4.36	14.59
CFD	X_12100	0.41	6.59	0.47	7.99	14.58
COL11A2	piperine	0.38	5.88	0.49	8.70	14.58
SAA3P	mannose	0.43	7.23	0.46	7.34	14.57
LCN2	X_12695	0.41	6.60	0.47	7.97	14.57
CFD	X_02249	0.51	10.39	0.34	4.16	14.56
ORM2	X_12611	0.46	8.43	0.42	6.12	14.55
LCN2	one_methylimidazoleacetate	0.38	5.71	0.50	8.84	14.55
CFD	one_methylimidazoleacetate	0.42	7.04	0.46	7.43	14.47
LYZ	erythronate	0.56	13.07	0.18	1.40	14.47
IGFBP4	pseudouridine	0.54	11.83	0.26	2.61	14.44
RNASE1	xylose	0.36	5.09	0.51	9.34	14.43
APCS	glycochenodeoxycholate	-0.47	8.85	-0.40	5.58	14.43
REG1A	N_acetylalanine	0.39	5.99	0.49	8.42	14.41
PTGDS	X_11444	0.39	6.05	0.48	8.36	14.41
B2M	X_04595	0.37	5.62	0.50	8.79	14.40
AHSG	X_10395	0.50	10.13	0.35	4.28	14.40
PTGDS	choline	0.43	7.26	0.45	7.14	14.40
RNASE1	X_12855	0.44	7.67	0.44	6.73	14.40
AZGP1	three_indoxyl_sulfate	0.46	8.36	0.41	6.02	14.38
ULK4	taurocholate	-0.55	12.72	-0.20	1.65	14.37
B2M	X_11510	0.37	5.36	0.50	9.00	14.36
CFHR2	X_12104	0.43	7.31	0.45	7.06	14.36
TIMP1	one_stearoyl_GPC	-0.33	4.35	-0.53	10.01	14.35
VTN	xylonate	-0.38	5.76	-0.49	8.59	14.34
AZGP1	pseudouridine	0.45	7.95	0.43	6.39	14.34
CFHR2	erythritol	0.46	8.48	0.41	5.85	14.33
CFHR2	X_12117	0.43	7.43	0.44	6.90	14.32
C1QC	HPLA	0.43	7.37	0.44	6.94	14.32
APOC1	X_10500	0.39	6.12	0.48	8.16	14.29
APOC1	X_10510	0.43	7.37	0.44	6.91	14.28
CFHR2	X_12405	0.46	8.64	0.40	5.63	14.27
IGFBP4	X_11334	0.49	9.92	0.35	4.35	14.27
LCN2	erythronate	0.42	6.89	0.46	7.36	14.25

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
CST3	gamma_glutamylphenylalanine	0.49	9.52	0.36	4.72	14.24
APOA1	X_06346	0.42	7.02	0.45	7.21	14.23
HBB	AMP	0.33	4.44	0.52	9.79	14.23
CST3	pantothenate	0.33	4.46	0.52	9.73	14.20
DEFA1	X_13553	0.40	6.29	0.47	7.89	14.17
LRG1	one_palmitoyl_GPC	-0.51	10.77	-0.30	3.38	14.15
LGALS3BP	seven_HOCA	0.37	5.62	0.49	8.52	14.14
FN1	mannose	-0.31	3.92	-0.53	10.20	14.12
CFHR2	N6_carbamoylthreonyladenosine	0.45	8.12	0.41	5.98	14.10
IGFBP4	X_11687	0.49	9.67	0.35	4.42	14.09
SAA3P	one_oleoyl_GPC	-0.49	9.56	-0.36	4.53	14.09
ORM1	X_03951	0.42	7.13	0.44	6.94	14.08
IGFBP4	arabitol	0.52	11.21	0.28	2.86	14.07
REG1A	N2_N2_dimethylguanosine	0.40	6.30	0.47	7.76	14.06
LGALS3BP	pipecolate	0.42	7.05	0.45	7.01	14.06
REG1A	erythronate	0.37	5.46	0.49	8.59	14.05
APOB	X_10510	0.44	7.59	0.43	6.46	14.05
HBA1	AMP	0.33	4.49	0.52	9.55	14.04
CD14	N_acetylalanine	0.36	5.26	0.50	8.78	14.04
SERPINA3	one_stearoyl_GPC	-0.45	8.06	-0.41	5.98	14.04
APOC2	cholesterol	0.38	5.83	0.48	8.19	14.02
AZGP1	gulono_1_4_lactone	0.45	8.05	0.41	5.96	14.02
A1BG	X_04495	-0.45	8.15	-0.41	5.87	14.01
LCN2	phenylacetylglutamine	0.38	5.94	0.48	8.08	14.01
AHSG	X_03056	-0.44	7.73	-0.42	6.28	14.00
SAA3P	one_linoleoyl_GPC	-0.47	8.92	-0.38	5.08	14.00
PTGDS	prolylhydroxyproline	0.47	8.87	0.38	5.12	13.99
RBP4	X_12405	0.34	4.61	0.51	9.38	13.99
GPX3	X_02249	-0.42	6.97	-0.45	7.01	13.98
MB	three_hydroxy_2_ethylpropionate	0.36	5.29	0.49	8.69	13.98
AZGP1	threonate	0.41	6.83	0.45	7.15	13.97
RNASE1	X_11850	0.39	6.17	0.47	7.80	13.97
GPX3	biliverdin	0.50	9.95	0.33	4.02	13.97
LRG1	one_stearoyl_GPC	-0.48	9.39	-0.36	4.58	13.97
REG1A	N6_carbamoylthreonyladenosine	0.36	5.23	0.50	8.74	13.97
REG1A	allantoin	0.39	6.24	0.47	7.73	13.97
VWF	one_arachidoyl_GPE	-0.43	7.36	-0.43	6.60	13.96
S100A8	two_methylbutyroylcarnitine	0.48	9.45	0.36	4.50	13.95
KLKB1	X_10395	0.58	13.88	0.01	0.06	13.95
SAA1	X_14626	0.40	6.53	0.46	7.42	13.94
CRP	one_stearoyl_GPC	-0.43	7.54	-0.43	6.40	13.94
PTGDS	cysteine	0.28	3.24	0.54	10.69	13.93
ORM2	histidine	-0.44	7.69	-0.42	6.21	13.90
C1QB	methionine	0.44	7.83	0.41	6.06	13.90
CST3	indolelactate	0.45	8.22	0.40	5.67	13.90
RBP4	hippurate	0.36	5.33	0.49	8.56	13.89
CST3	X_11261	0.43	7.38	0.43	6.51	13.88
LUM	allantoin	0.44	7.73	0.42	6.15	13.88
LCN2	one_stearoyl_GPC	-0.22	2.17	-0.57	11.70	13.87
B2M	cysteine	0.39	6.05	0.47	7.80	13.85
SAA1	X_11445	0.45	8.11	0.40	5.73	13.84
VTN	threitol	-0.39	5.98	-0.47	7.86	13.84
PTGDS	phosphate	0.34	4.73	0.50	9.11	13.83
LCN2	X_12100	0.43	7.42	0.43	6.40	13.82
CFD	X_12695	0.43	7.25	0.43	6.58	13.82
VASN	N2_N2_dimethylguanosine	0.42	7.21	0.43	6.62	13.82

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
IGFBP4	X_03951	0.53	11.74	0.23	2.09	13.82
PTGDS	X_11850	0.37	5.61	0.48	8.20	13.81
APOA4	catechol_sulfate	0.46	8.36	0.39	5.45	13.81
RNASE1	choline	0.41	6.78	0.45	7.02	13.80
VASN	pseudouridine	0.45	7.94	0.41	5.85	13.79
AZGP1	X_12206	0.42	7.11	0.43	6.67	13.77
CRP	one_palmitoleoyl_GPC	-0.45	8.14	-0.40	5.62	13.76
LYZ	three_indoxyl_sulfate	0.55	12.26	0.19	1.50	13.76
IGFBP4	phenylacetylglutamine	0.51	10.59	0.29	3.16	13.75
ULK4	X_14658	-0.53	11.62	-0.23	2.12	13.74
APOC2	X_08402	0.45	8.05	0.40	5.68	13.74
IGFBP4	threitol	0.50	10.35	0.30	3.36	13.71
CST3	sucrose	0.38	5.87	0.47	7.82	13.70
ICAM2	glycochenodeoxycholate	0.42	7.05	0.43	6.64	13.69
PTGDS	X_12844	0.36	5.25	0.49	8.44	13.69
LCN2	X_11429	0.43	7.39	0.42	6.27	13.66
REG1A	X_11334	0.32	4.22	0.51	9.42	13.65
HPX	glycochenodeoxycholate	-0.44	7.89	-0.40	5.76	13.64
IGFBP4	X_11423	0.52	10.97	0.27	2.66	13.63
LYZ	X_12742	0.53	11.70	0.22	1.92	13.62
CFHR2	X_12611	0.45	8.18	0.39	5.43	13.61
CES1	HPLA	0.27	2.99	0.54	10.61	13.61
CFD	X_12688	0.41	6.64	0.44	6.96	13.60
AZGP1	glutaroylcarnitine	0.43	7.27	0.42	6.32	13.59
CFHR2	pyridoxate	0.38	5.78	0.47	7.80	13.58
LYZ	threonate	0.52	10.92	0.26	2.65	13.57
AHSG	creatine	-0.46	8.58	-0.37	4.98	13.57
TIMP1	one_linoleoyl_GPC	-0.31	3.87	-0.52	9.69	13.56
CRP	one_linoleoyl_GPC	-0.41	6.80	-0.44	6.75	13.55
LBP	X_11445	0.41	6.75	0.44	6.80	13.54
GPX3	seven_HOCA	0.45	8.23	0.39	5.30	13.53
ORM1	X_04499	0.42	7.10	0.43	6.42	13.52
B2M	four_acetaminophen_sulfate	0.32	4.25	0.51	9.26	13.51
APOA4	citrulline	0.40	6.34	0.45	7.16	13.50
LYZ	X_12117	0.53	11.57	0.22	1.92	13.49
TIMP1	one_arachidoyl_GPC	-0.33	4.53	-0.50	8.96	13.49
LYZ	X_12405	0.55	12.37	0.16	1.12	13.49
APOC1	cholesterol	0.36	5.13	0.48	8.36	13.49
VTN	X_03951	-0.39	6.14	-0.46	7.34	13.48
LGALS3BP	HPLA	0.46	8.60	0.37	4.88	13.48
LBP	X_11440	0.40	6.41	0.45	7.07	13.48
SERPINA3	one_palmitoyl_GPC	-0.47	9.06	-0.35	4.40	13.46
CST3	threonate	0.37	5.40	0.48	8.05	13.45
RNASE1	isobutyrylcarnitine	0.34	4.79	0.49	8.66	13.45
VWF	one_arachidoyl_GPC	-0.37	5.54	-0.47	7.91	13.45
C7	X_12850	0.40	6.55	0.44	6.89	13.45
REG1A	four_acetamidobutanoate	0.38	5.66	0.47	7.78	13.45
AZGP1	N6_carbamoylthreonyladenosine	0.42	7.01	0.43	6.43	13.44
APOC1	X_12038	0.37	5.45	0.47	7.99	13.44
IGFBP4	one_methylimidazoleacetate	0.51	10.52	0.28	2.91	13.43
RBP4	arabitol	0.34	4.72	0.49	8.71	13.43
ORM1	N_acetylalanine	0.39	6.18	0.45	7.24	13.43
GPX3	taurochenodeoxycholate	0.44	7.88	0.40	5.53	13.41
IGFBP4	X_04507	0.51	10.59	0.27	2.81	13.41
LCN2	pseudouridine	0.42	7.19	0.42	6.21	13.41
VWF	taurochenodeoxycholate	0.39	6.13	0.45	7.27	13.40

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
ORM2	X_11429	0.43	7.38	0.41	6.02	13.40
DEFA1	X_12794	0.17	1.40	0.57	11.97	13.37
CFHR2	pseudouridine	0.46	8.47	0.37	4.89	13.36
LYZ	N6_carbamoylthreonyladenosine	0.54	12.23	0.16	1.12	13.36
GPX3	three_indoxyl_sulfate	-0.43	7.45	-0.41	5.89	13.34
AZGP1	X_11593	0.42	7.05	0.42	6.28	13.34
ORM2	tryptophan	-0.36	5.35	-0.47	7.99	13.34
CFD	X_12217	0.40	6.37	0.44	6.96	13.33
AZGP1	X_11687	0.42	7.01	0.42	6.31	13.32
APOD	X_10500	0.43	7.42	0.41	5.89	13.31
VTN	pseudouridine	-0.40	6.28	-0.45	7.03	13.31
LBP	X_12794	0.42	6.90	0.43	6.41	13.31
LYZ	four_acetamidobutanoate	0.53	11.74	0.19	1.55	13.29
ORM1	histidine	-0.41	6.83	-0.43	6.46	13.29
VTN	SDMA	-0.39	6.02	-0.45	7.26	13.29
LYZ	allantoin	0.54	12.10	0.16	1.18	13.28
TIMP1	X_10395	-0.32	4.10	-0.51	9.17	13.27
CFHR2	X_05426	0.48	9.41	0.33	3.85	13.25
REG1A	X_10483	0.37	5.55	0.47	7.71	13.25
IGFBP4	N6_carbamoylthreonyladenosine	0.50	9.94	0.30	3.31	13.25
SERPINA3	one_palmitoleoyl_GPC	-0.47	8.97	-0.35	4.27	13.24
LRG1	one_oleoyl_GPC	-0.48	9.45	-0.32	3.78	13.23
LYZ	hippurate	0.54	11.77	0.18	1.46	13.23
VWF	gamma_glutamyltyrosine	0.50	10.01	0.30	3.21	13.22
C1QB	taurochenodeoxycholate	0.48	9.14	0.34	4.06	13.20
GPX3	X_12104	-0.42	6.97	-0.42	6.23	13.20
APCS	betaine	-0.48	9.35	-0.33	3.85	13.20
SAA3P	two_palmitoyl_GPC	-0.48	9.24	-0.33	3.94	13.18
CST3	phenol_sulfate	0.39	6.20	0.44	6.97	13.17
AMBP	three_cystein_S_yl_acetaminophen	0.27	3.06	0.53	10.10	13.16
B2M	X_11850	0.38	5.74	0.46	7.41	13.15
B2M	deoxycarnitine	0.46	8.31	0.37	4.84	13.15
RNASE1	four_vinylphenol_sulfate	0.34	4.69	0.49	8.46	13.15
VWF	one_palmitoyl_GPC	-0.41	6.63	-0.43	6.51	13.14
CST3	choline	0.37	5.42	0.47	7.72	13.14
CFD	X_11826	0.39	6.13	0.45	7.00	13.13
S100A8	X_04499	0.50	9.95	0.29	3.18	13.13
ORM2	threonine	-0.41	6.78	-0.42	6.34	13.12
RNASE1	X_04595	0.33	4.47	0.49	8.64	13.11
PTGDS	xylose	0.32	4.21	0.50	8.89	13.10
PTGDS	X_04495	0.47	8.82	0.35	4.28	13.09
SAA1	glutamine	-0.42	6.96	-0.42	6.13	13.09
SAA1	three_cystein_S_yl_acetaminophen	0.31	4.01	0.50	9.06	13.07
AFM	X_12510	0.45	7.95	0.38	5.11	13.07
DEFA1	N_acetylalanine	0.27	3.11	0.53	9.95	13.07
SPINK1	X_12794	0.38	5.74	0.46	7.33	13.06
C7	HPLA	0.49	9.71	0.30	3.33	13.05
RNASE1	deoxycarnitine	0.41	6.77	0.42	6.24	13.02
ORM2	X_03951	0.40	6.39	0.43	6.63	13.01
HBZ	AMP	0.16	1.34	0.56	11.67	13.01
SAA4	X_06346	0.44	7.72	0.39	5.28	13.00
REG1A	xylonate	0.34	4.70	0.48	8.29	12.99
ORM1	pseudouridine	0.42	7.11	0.41	5.86	12.97
SERPINC1	X_10395	0.48	9.38	0.31	3.59	12.97
AMBP	X_11838	0.29	3.53	0.51	9.43	12.96
ULK4	HPLA	-0.47	8.92	-0.33	4.04	12.96

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
REG1A	erythritol	0.35	4.93	0.48	8.03	12.95
S100A9	hexanoylcarnitine	0.42	6.96	0.41	5.98	12.95
CFD	X_12749	0.39	6.07	0.44	6.87	12.94
SAA1	X_11245	0.46	8.41	0.36	4.52	12.93
CFHR2	X_12099	0.46	8.35	0.36	4.57	12.93
ORM2	tyrosine	-0.42	7.03	-0.41	5.87	12.90
S100A9	one_palmitoyl_GPC	-0.29	3.47	-0.51	9.43	12.90
B2M	X_11444	0.42	7.15	0.40	5.74	12.88
REG1A	phenylacetylglutamine	0.33	4.34	0.49	8.54	12.88
B2M	p_acetamidophenylglucuronide	0.33	4.33	0.49	8.55	12.88
CFD	pyridoxate	0.41	6.77	0.42	6.11	12.88
CFHR2	X_11315	-0.42	6.92	-0.41	5.96	12.87
PLG	X_13553	-0.17	1.40	-0.56	11.44	12.84
ECM1	seven_HOCA	0.38	5.76	0.45	7.08	12.84
AHSG	X_11786	0.38	5.86	0.44	6.97	12.84
ORM2	N6_carbamoylthreonyladenosine	0.36	5.27	0.46	7.56	12.84
APOC3	X_10744	0.41	6.62	0.42	6.21	12.83
RNASE1	gamma_glutamylphenylalanine	0.35	4.97	0.47	7.85	12.82
CFD	X_05426	0.45	8.26	0.36	4.56	12.82
RBP4	X_12695	0.34	4.57	0.48	8.23	12.80
CFD	X_10483	0.31	3.88	0.50	8.91	12.80
IGFBP4	N2_N2_dimethylguanosine	0.49	9.86	0.28	2.93	12.80
RNASE1	carnitine	-0.38	5.66	-0.45	7.13	12.79
TTR	X_05907	0.38	5.78	0.45	7.00	12.79
CFD	glutaroylcarnitine	0.36	5.20	0.46	7.58	12.79
SAA3P	three_cystein_S_yl_acetaminophen	0.31	3.96	0.50	8.82	12.78
CFHR2	X_11826	0.42	7.15	0.40	5.64	12.78
LYZ	X_03951	0.53	11.42	0.18	1.35	12.77
AZGP1	creatinine	0.42	7.21	0.40	5.56	12.77
CST3	quinate	0.40	6.40	0.42	6.35	12.76
CST3	X_11315	-0.35	4.90	-0.47	7.85	12.75
FCGBP	X_12794	0.28	3.29	0.51	9.46	12.75
LBP	one_oleoyl_GPE	-0.36	5.26	-0.46	7.48	12.74
LCN2	X_12860	0.33	4.31	0.49	8.43	12.74
AZGP1	X_11429	0.38	5.72	0.45	7.02	12.74
DEFA1	one_palmitoyl_GPC	-0.19	1.66	-0.55	11.07	12.73
IGFBP4	X_04499	0.52	11.23	0.19	1.49	12.72
S100A9	two_methylbutyroylcarnitine	0.45	8.28	0.35	4.43	12.72
AZGP1	four_acetamidobutanoate	0.42	7.04	0.40	5.67	12.72
AZGP1	X_12611	0.43	7.56	0.38	5.15	12.71
CRP	one_oleoyl_GPC	-0.39	6.20	-0.43	6.51	12.71
FN1	seven_HOCA	0.19	1.69	0.55	11.01	12.70
ECM1	pipecolate	0.42	7.01	0.40	5.68	12.69
PLG	X_11421	-0.29	3.51	-0.51	9.18	12.69
AHSG	mannose	-0.33	4.49	-0.48	8.19	12.68
IGFBP4	X_10359	0.49	9.64	0.29	3.03	12.68
LUM	malate	0.35	5.03	0.46	7.63	12.67
CFD	X_12860	0.41	6.74	0.41	5.92	12.66
VWF	methionine	0.45	8.22	0.35	4.44	12.66
PTGDS	X_08889	0.24	2.43	0.53	10.23	12.66
CFD	SDMA	0.33	4.51	0.48	8.15	12.66
IGFBP4	three_indoxyl_sulfate	0.47	8.81	0.33	3.84	12.65
B2M	X_12855	0.44	7.92	0.36	4.72	12.65
AZGP1	X_11826	0.41	6.75	0.41	5.89	12.64
APOD	X_12038	0.43	7.55	0.38	5.09	12.64
REG1A	X_12688	0.29	3.47	0.51	9.17	12.63

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
VASN	four_acetamidobutanoate	0.41	6.60	0.41	6.04	12.63
CFD	phenol_sulfate	0.39	6.10	0.43	6.53	12.62
SPINK1	N2_N2_dimethylguanosine	0.44	7.90	0.36	4.72	12.61
AZGP1	X_11444	0.41	6.73	0.41	5.88	12.60
ICAM2	tyrosine	0.44	7.66	0.37	4.95	12.60
SAA3P	X_11445	0.43	7.46	0.38	5.14	12.60
HPX	X_12850	-0.42	7.08	-0.39	5.51	12.59
AZGP1	X_12092	0.41	6.70	0.41	5.90	12.59
FCGBP	X_11421	0.40	6.25	0.42	6.33	12.58
ECM1	glycochenodeoxycholate	0.36	5.09	0.46	7.48	12.58
PON1	X_04499	-0.42	7.20	-0.39	5.36	12.56
COL11A2	X_10395	0.48	9.10	0.31	3.46	12.56
AMBP	four_acetaminophen_sulfate	0.33	4.41	0.48	8.14	12.55
LYZ	gulono_1_4_lactone	0.52	11.04	0.19	1.50	12.54
GPX3	X_12405	-0.41	6.71	-0.41	5.83	12.54
SERPINA3	one_linoleoyl_GPC	-0.38	5.91	-0.43	6.63	12.54
LYZ	X_12695	0.51	10.76	0.21	1.77	12.53
IGFBP4	creatinine	0.43	7.42	0.38	5.11	12.53
GPX3	X_03951	-0.42	6.94	-0.40	5.59	12.53
B2M	three_cystein_S_yl_acetaminophen	0.27	3.06	0.51	9.47	12.53
IGFBP4	X_12749	0.51	10.47	0.23	2.05	12.52
ORM1	N6_carbamoylthreonyladenosine	0.37	5.51	0.45	7.01	12.51
B2M	X_08889	0.30	3.62	0.50	8.89	12.51
IGFBP4	N_acetylalanine	0.49	9.83	0.27	2.68	12.51
REG1A	SDMA	0.30	3.80	0.49	8.71	12.51
CST3	X_11421	0.44	7.78	0.36	4.73	12.51
IGFBP4	allantoin	0.47	9.00	0.31	3.51	12.51
LCN2	X_12688	0.35	4.93	0.46	7.57	12.50
LCN2	one_arachidoyl_GPC	-0.29	3.41	-0.50	9.09	12.50
SERPINA1	X_10395	-0.43	7.27	-0.38	5.23	12.50
LCN2	X_04507	0.42	7.10	0.39	5.38	12.48
CFD	X_10266	0.46	8.42	0.34	4.05	12.48
LBP	three_cystein_S_yl_acetaminophen	0.35	4.85	0.46	7.62	12.47
REG1A	X_12695	0.35	5.07	0.46	7.39	12.46
MB	X_12855	0.46	8.36	0.34	4.09	12.45
PTGDS	three_cystein_S_yl_acetaminophen	0.24	2.55	0.52	9.90	12.44
F12	androsterone_sulfate	-0.44	7.72	-0.36	4.71	12.43
TIMP1	one_oleoyl_GPC	-0.28	3.23	-0.51	9.20	12.43
FCGBP	X_13553	0.44	7.78	0.36	4.65	12.43
APOC1	X_10395	0.44	7.84	0.36	4.59	12.42
VTN	X_10359	-0.35	4.95	-0.46	7.47	12.42
AZGP1	X_12405	0.41	6.70	0.40	5.71	12.41
CFHR2	X_11261	0.43	7.40	0.38	4.99	12.39
APOL1	X_10395	0.51	10.49	0.22	1.88	12.37
AMBP	cysteine	0.32	4.13	0.48	8.24	12.36
CFHR2	one_five_anhydroglucitol	-0.39	6.11	-0.42	6.25	12.36
LYZ	N2_N2_dimethylguanosine	0.52	10.92	0.18	1.43	12.35
RNASE1	X_08889	0.28	3.26	0.50	9.08	12.34
LYZ	pseudouridine	0.51	10.73	0.20	1.61	12.34
AZGP1	X_02249	0.44	7.70	0.36	4.64	12.34
LRG1	two_palmitoyl_GPC	-0.47	8.86	-0.31	3.47	12.33
PLG	N_acetylalanine	-0.19	1.73	-0.54	10.60	12.33
LCN2	X_12405	0.37	5.45	0.44	6.85	12.30
CES1	gamma_glutamyltyrosine	0.30	3.71	0.49	8.58	12.29
ECM1	taurochenodeoxycholate	0.34	4.78	0.46	7.50	12.28
SAA3P	X_14626	0.39	6.16	0.42	6.11	12.27

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
ORM1	threonine	-0.39	6.11	-0.42	6.15	12.26
DEFA1	one_stearoyl_GPC	-0.15	1.14	-0.55	11.12	12.26
VTN	arabitol	-0.36	5.15	-0.45	7.11	12.26
REG1A	X_03951	0.31	3.92	0.48	8.34	12.26
HPR	seven_HOCA	-0.36	5.20	-0.45	7.06	12.25
B2M	gamma_glutamylphenylalanine	0.38	5.84	0.43	6.41	12.25
APOA1	one_palmitoyl_GPC	0.29	3.40	0.50	8.85	12.25
REG1A	X_12802	0.35	4.84	0.46	7.40	12.24
LRG1	one_linoleoyl_GPC	-0.45	8.15	-0.34	4.09	12.24
RBP4	X_11423	0.29	3.58	0.49	8.65	12.23
ORM2	X_12802	0.41	6.83	0.39	5.40	12.23
PTGDS	gamma_glutamylphenylalanine	0.39	6.13	0.42	6.09	12.23
S100A9	HPLA	0.38	5.80	0.43	6.42	12.22
PLG	hexanoylcarnitine	-0.31	3.97	-0.48	8.25	12.21
VWF	seven_HOCA	0.28	3.19	0.50	8.99	12.18
FCGBP	decanoylcarnitine	0.39	6.17	0.41	6.00	12.17
IGFBP4	X_12101	0.48	9.26	0.28	2.90	12.16
AFM	X_12794	-0.39	6.21	-0.41	5.94	12.15
BAI2	X_10395	-0.46	8.46	-0.32	3.69	12.15
APOB	X_08402	0.40	6.49	0.40	5.66	12.15
ORM1	tyrosine	-0.39	6.03	-0.42	6.11	12.14
S100A9	one_stearoyl_GPC	-0.28	3.19	-0.50	8.94	12.14
APOB	X_10500	0.41	6.72	0.39	5.42	12.13
VASN	N_acetylalanine	0.39	6.14	0.41	5.99	12.12
IGFBP4	four_acetamidobutanoate	0.47	8.87	0.30	3.25	12.12
CST3	one_methyladenosine	0.50	10.12	0.22	2.00	12.12
LYZ	X_02249	0.48	9.29	0.27	2.82	12.11
C7	alpha_hydroxyisovalerate	0.42	6.91	0.38	5.20	12.10
AZGP1	X_05522	0.41	6.64	0.39	5.46	12.10
LYZ	X_12217	0.50	10.22	0.22	1.88	12.10
S100A9	tiglyl_carnitine	0.42	7.05	0.38	5.05	12.09
CFHR2	N2_N2_dimethylguanosine	0.43	7.55	0.36	4.54	12.09
ORM2	pseudouridine	0.39	6.12	0.41	5.96	12.09
LCN2	one_linoleoyl_GPC	-0.28	3.29	-0.50	8.80	12.08
SERPINA3	creatine	0.45	8.10	0.33	3.98	12.08
VSIG4	N_acetylthreonine	0.37	5.41	0.43	6.66	12.06
AFM	beta_hydroxyisovalerate	-0.48	9.17	-0.28	2.89	12.06
LCN2	one_oleoyl_GPC	-0.26	2.80	-0.51	9.26	12.06
SAA1	X_11273	0.41	6.61	0.39	5.45	12.06
SPINK1	X_11429	0.43	7.56	0.35	4.49	12.05
IGFBP4	X_12117	0.49	9.60	0.25	2.45	12.05
LCN2	X_12101	0.36	5.26	0.44	6.77	12.03
RBP4	X_12206	0.35	4.88	0.45	7.15	12.03
AHSG	one_palmitoleoyl_GPC	0.39	6.07	0.41	5.96	12.03
B2M	three_methylhistidine	0.43	7.28	0.37	4.74	12.02
TTR	X_09789	0.40	6.37	0.40	5.65	12.01
ULK4	glycochenodeoxycholate	-0.51	10.38	-0.20	1.63	12.01
RBP4	erythronate	0.31	3.88	0.48	8.12	12.00
APOD	X_10395	0.47	8.73	0.30	3.26	12.00
HPR	citrate	-0.44	7.59	-0.35	4.40	11.99
LGALS3BP	methionine	0.40	6.54	0.39	5.45	11.99
IGFBP4	X_12742	0.47	9.00	0.28	2.99	11.99
AZGP1	one_five_anhydroglucitol	-0.38	5.81	-0.42	6.18	11.99
AHSG	glutamate	0.40	6.34	0.40	5.64	11.98
AZGP1	X_12100	0.39	6.16	0.41	5.83	11.98
S100A9	X_13553	0.38	5.91	0.41	6.08	11.98

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
HPX	glycocholate	-0.37	5.62	-0.42	6.35	11.97
VSIG4	SDMA	0.36	5.36	0.43	6.61	11.97
RBP4	X_11687	0.32	4.11	0.47	7.86	11.97
LCN2	tiglyl_carnitine	0.34	4.58	0.46	7.38	11.96
AFM	one_palmitoyl_GPC	0.43	7.32	0.36	4.63	11.95
CFD	hippurate	0.43	7.43	0.36	4.52	11.95
LCN2	deoxycarnitine	0.44	7.71	0.34	4.24	11.95
AMBP	X_06126	0.42	6.90	0.38	5.04	11.95
APOH	X_02249	0.44	7.69	0.34	4.26	11.95
S100A8	N_acetylthreonine	0.44	7.90	0.34	4.05	11.95
ORM1	X_11423	0.39	5.96	0.41	5.97	11.94
SPINK1	tryptophan	-0.37	5.48	-0.43	6.45	11.93
PTGDS	four_acetaminophen_sulfate	0.26	2.98	0.50	8.94	11.92
VASN	X_03951	0.41	6.75	0.38	5.17	11.92
LYZ	X_12206	0.51	10.40	0.19	1.52	11.92
LCN2	mannitol	0.39	5.94	0.41	5.98	11.92
C1QB	glycochenodeoxycholate	0.48	9.35	0.26	2.56	11.91
CES1	lysine	0.41	6.77	0.38	5.14	11.90
LYZ	catechol_sulfate	0.49	9.82	0.23	2.08	11.90
APOC1	X_10744	0.41	6.84	0.38	5.05	11.89
CFHR2	X_04499	0.38	5.71	0.42	6.18	11.89
AMBP	phosphate	0.37	5.43	0.43	6.46	11.89
TF	one_stearoyl_GPC	0.36	5.11	0.44	6.78	11.89
AFM	one_stearoyl_GPC	0.39	6.16	0.40	5.73	11.89
CST3	two_methylbutyroylcarnitine	0.43	7.29	0.36	4.59	11.88
CFHR2	X_11429	0.43	7.42	0.35	4.46	11.88
CFHR2	X_11687	0.42	7.08	0.37	4.79	11.88
DEFA1	one_linoleoyl_GPC	-0.16	1.24	-0.54	10.63	11.87
S100A8	hydroxyisovaleroylcarnitine	0.43	7.57	0.35	4.28	11.85
LCN2	X_04504	0.42	6.91	0.37	4.93	11.84
LCN2	phenol_sulfate	0.40	6.34	0.39	5.49	11.83
S100A8	X_12802	0.44	7.74	0.34	4.09	11.82
HPX	alpha_hydroxyisovalerate	-0.41	6.80	-0.38	5.01	11.82
AHSG	one_palmitoyl_GPC	0.41	6.87	0.37	4.94	11.82
LYZ	X_09789	0.45	7.96	0.33	3.85	11.81
DEFA1	four_acetamidobutanoate	0.24	2.46	0.51	9.34	11.80
AZGP1	N_acetylalanine	0.44	7.58	0.34	4.22	11.79
LCN2	X_11334	0.34	4.74	0.45	7.04	11.78
ICAM2	pipecolate	0.37	5.63	0.42	6.15	11.78
CFD	arabinose	0.29	3.57	0.48	8.20	11.78
B2M	X_12844	0.40	6.36	0.39	5.40	11.77
VTN	X_11423	-0.36	5.20	-0.43	6.57	11.77
RBMX	taurochenodeoxycholate	0.43	7.37	0.35	4.38	11.76
CFD	X_12104	0.31	4.03	0.47	7.73	11.75
IGFBP4	X_12405	0.46	8.40	0.30	3.36	11.75
ICAM2	alpha_hydroxyisovalerate	0.42	6.95	0.37	4.79	11.74
GPX3	X_04357	0.49	9.81	0.22	1.92	11.73
S100A8	X_11244	0.35	4.85	0.44	6.87	11.72
SAA3P	X_11245	0.43	7.34	0.35	4.38	11.72
PTGDS	kynurenine	0.38	5.71	0.41	6.01	11.72
AZGP1	X_12695	0.40	6.39	0.39	5.33	11.72
LCN2	X_11423	0.38	5.83	0.41	5.88	11.71
RBP4	X_12095	0.30	3.71	0.47	8.00	11.71
AHSG	octanoylcarnitine	-0.37	5.56	-0.42	6.14	11.70
APCS	seven_HOCA	-0.39	6.00	-0.40	5.69	11.69
VASN	erythronate	0.38	5.69	0.41	5.99	11.69

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
S100A8	hexanoylcarnitine	0.44	7.68	0.33	4.00	11.68
FABP1	methionine	0.26	2.89	0.50	8.77	11.67
S100A8	X_11273	0.31	3.83	0.47	7.84	11.67
ORM1	X_11786	-0.39	6.11	-0.40	5.56	11.67
LCN2	X_12742	0.36	5.32	0.42	6.35	11.67
SAA4	X_03094	0.34	4.71	0.44	6.96	11.66
CFHR2	X_12100	0.42	7.19	0.35	4.47	11.66
RBP4	quinate	0.27	3.16	0.49	8.50	11.66
LBP	X_14626	0.38	5.90	0.40	5.76	11.66
CD14	X_12611	0.25	2.69	0.50	8.96	11.65
RBP4	X_02249	0.31	4.00	0.46	7.64	11.64
LGALS3BP	alpha_hydroxyisovalerate	0.36	5.32	0.42	6.31	11.63
CST3	tryptophan	-0.44	7.76	-0.33	3.87	11.63
APOA1	X_12038	0.41	6.80	0.37	4.82	11.63
LYZ	three_methylhistidine	0.42	7.12	0.35	4.50	11.62
APOA1	X_05907	0.37	5.54	0.41	6.07	11.62
HP	seven_HOCA	-0.36	5.22	-0.43	6.39	11.62
DEFA1	octanoylcarnitine	0.30	3.83	0.47	7.78	11.61
VASN	X_11429	0.36	5.31	0.42	6.30	11.61
GPX3	histidine	0.45	8.27	0.30	3.33	11.61
CFD	X_12611	0.28	3.19	0.49	8.40	11.59
C7	glycocholate	0.33	4.55	0.45	7.04	11.59
LRG1	one_palmitoleoyl_GPC	-0.48	9.13	-0.25	2.45	11.58
AHSG	X_11421	-0.36	5.29	-0.42	6.29	11.58
KNG1	one_palmitoyl_GPC	0.39	6.17	0.39	5.40	11.58
APOC3	X_10395	0.41	6.83	0.37	4.75	11.57
AZGP1	X_12217	0.37	5.62	0.41	5.94	11.57
CFHR2	arabinose	0.43	7.49	0.34	4.07	11.56
APOC2	X_12038	0.31	3.97	0.46	7.59	11.56
CST3	cysteine	0.32	4.30	0.45	7.26	11.56
AZGP1	X_12844	0.37	5.37	0.42	6.19	11.56
SAA3P	X_11273	0.39	5.94	0.40	5.61	11.56
LYZ	phenylacetylglutamine	0.52	10.97	0.10	0.58	11.55
AFM	mannose	-0.38	5.93	-0.40	5.61	11.55
RBP4	glutaroylcarnitine	0.27	3.09	0.49	8.46	11.55
PTGDS	p_acetamidophenylglucuronide	0.28	3.23	0.48	8.32	11.55
S100A9	X_11273	0.37	5.48	0.41	6.06	11.54
CFHR2	X_02249	0.41	6.59	0.37	4.95	11.54
ICAM2	seven_HOCA	0.39	6.06	0.39	5.47	11.53
IGFBP4	X_05522	0.46	8.43	0.29	3.10	11.53
LCN2	erythritol	0.37	5.50	0.41	6.02	11.52
RBP4	X_07765	0.38	5.68	0.41	5.84	11.52
RBP4	phenylacetylglutamine	0.29	3.47	0.48	8.03	11.50
VTN	X_05426	-0.37	5.37	-0.42	6.13	11.50
LYZ	pyridoxate	0.50	10.10	0.18	1.39	11.50
CFD	gulono_1_4_lactone	0.34	4.76	0.44	6.73	11.49
SPINK1	four_acetamidobutanoate	0.44	7.81	0.32	3.68	11.49
RBP4	X_05426	0.36	5.12	0.42	6.37	11.49
F12	mannose	-0.38	5.65	-0.41	5.84	11.49
VASN	xylonate	0.35	4.96	0.43	6.53	11.49
IGFBP4	glutaroylcarnitine	0.45	8.28	0.30	3.21	11.48
CFHR2	X_12217	0.43	7.31	0.34	4.17	11.48
VWF	X_10395	-0.42	7.16	-0.35	4.31	11.47
APOC3	X_12104	0.40	6.30	0.38	5.16	11.46
VTN	pyridoxate	-0.34	4.61	-0.44	6.85	11.46
RBP4	citrulline	0.26	2.91	0.49	8.55	11.46

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
ORM1	four_acetamidobutanoate	0.37	5.50	0.41	5.95	11.45
AZGP1	p_cresol_sulfate	0.42	7.18	0.35	4.27	11.45
AGT	three_hydroxy_2_ethylpropionate	0.45	7.95	0.31	3.49	11.44
CFD	phosphate	0.35	4.87	0.43	6.56	11.43
ORM1	X_10483	0.39	6.12	0.39	5.30	11.43
VASN	SDMA	0.30	3.81	0.46	7.60	11.42
AZGP1	X_04498	0.41	6.75	0.36	4.67	11.42
CST3	isobutyrylcarnitine	0.39	6.16	0.38	5.25	11.41
RNASE1	X_11510	0.32	4.19	0.45	7.22	11.41
S100A8	deoxycarnitine	0.47	8.70	0.27	2.71	11.41
LYZ	X_11826	0.49	9.75	0.20	1.66	11.41
IGFBP4	X_04498	0.49	9.73	0.20	1.68	11.41
AZGP1	X_12749	0.37	5.39	0.41	6.00	11.39
SAA3P	X_05522	0.43	7.49	0.33	3.90	11.39
AMBP	X_09789	0.40	6.51	0.37	4.88	11.38
ADIPOQ	X_09789	0.41	6.87	0.36	4.51	11.38
LCN2	taurocholate	0.39	6.08	0.39	5.29	11.37
CFD	X_04504	0.40	6.32	0.38	5.05	11.37
SPINK1	X_12117	0.37	5.57	0.40	5.79	11.36
FABP1	tyrosine	0.36	5.30	0.41	6.05	11.36
SAA4	X_10395	0.46	8.39	0.28	2.97	11.36
GPX3	X_11423	-0.40	6.36	-0.38	4.99	11.35
DEFA1	tiglyl_carnitine	0.32	4.17	0.45	7.18	11.35
CFHR2	N_acetylalanine	0.43	7.50	0.33	3.84	11.34
TF	piperine	0.22	2.23	0.50	9.11	11.34
IGFBP4	X_10483	0.45	8.17	0.29	3.17	11.33
S100A9	X_11244	0.36	5.11	0.42	6.21	11.33
SERPINA3	three_hydroxy_2_ethylpropionate	0.43	7.43	0.33	3.90	11.33
SPINK1	one_methylimidazoleacetate	0.41	6.76	0.36	4.56	11.31
ORM2	X_12117	0.36	5.29	0.41	6.01	11.31
LBP	X_11245	0.40	6.51	0.37	4.80	11.30
CST3	phosphate	0.31	3.87	0.46	7.43	11.30
S100A8	X_11429	0.47	8.81	0.26	2.49	11.30
SERPINC1	one_palmitoyl_GPC	0.30	3.71	0.46	7.59	11.30
B2M	X_11838	0.27	3.02	0.48	8.27	11.28
S100A8	N_acetylneuraminate	0.40	6.40	0.37	4.88	11.28
RNASE1	X_11421	0.37	5.38	0.41	5.90	11.28
CST3	kynurenine	0.35	4.85	0.43	6.43	11.28
LBP	androsterone_sulfate	0.44	7.72	0.31	3.55	11.28
S100A9	N_acetylthreonine	0.34	4.65	0.43	6.62	11.27
CFHR2	X_12742	0.39	6.17	0.38	5.10	11.27
VTN	X_04507	-0.35	4.83	-0.43	6.43	11.26
REG1A	X_04499	0.36	5.10	0.42	6.15	11.25
LCN2	X_04499	0.43	7.31	0.33	3.93	11.24
C7	methionine	0.43	7.50	0.32	3.74	11.23
B2M	tryptophan	-0.44	7.65	-0.31	3.59	11.23
LYZ	erythritol	0.50	10.01	0.17	1.23	11.23
S100A8	X_10483	0.41	6.73	0.36	4.51	11.23
REG1A	X_04507	0.36	5.13	0.42	6.09	11.22
VSIG4	pipecolate	0.19	1.75	0.51	9.46	11.21
KNG1	X_05907	0.35	4.99	0.42	6.22	11.21
TIMP1	one_eicosatrienoyl_GPC	-0.34	4.68	-0.43	6.53	11.21
APOC2	one_stearoylglycerol	0.40	6.44	0.37	4.77	11.21
CST3	octanoylcarnitine	0.39	6.17	0.38	5.04	11.21
SERPINF1	X_12092	0.35	4.97	0.42	6.24	11.20
GPX3	HPLA	0.46	8.59	0.26	2.61	11.19

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
IGFBP4	X_04504	0.45	8.21	0.28	2.98	11.19
REG1A	X_04504	0.35	4.91	0.42	6.28	11.19
CFHR2	one_methylimidazoleacetate	0.43	7.46	0.32	3.72	11.18
B2M	X_07765	0.39	6.06	0.38	5.11	11.18
LCN2	N_acetylneuraminate	0.33	4.39	0.44	6.79	11.18
TTR	X_07765	0.39	6.07	0.38	5.11	11.17
AHSG	one_linoleoyl_GPC	0.34	4.73	0.43	6.42	11.15
VTN	arabinose	-0.32	4.11	-0.45	7.04	11.15
TTR	one_palmitoyl_GPC	0.39	6.11	0.38	5.04	11.15
SERPINA3	X_11445	0.37	5.45	0.40	5.69	11.14
VASN	allantoin	0.36	5.25	0.41	5.89	11.14
LCN2	hippurate	0.38	5.79	0.39	5.34	11.14
APOC1	one_stearoylglycerol	0.45	8.17	0.28	2.96	11.13
ORM2	X_11423	0.38	5.67	0.39	5.46	11.13
SAA1	four_acetaminophen_sulfate	0.31	3.87	0.45	7.25	11.12
S100A9	N_acetylneuraminate	0.37	5.44	0.40	5.68	11.11
MB	octanoylcarnitine	0.35	5.08	0.41	6.04	11.11
REG1A	X_12117	0.30	3.61	0.46	7.50	11.11
B2M	X_11787	-0.32	4.25	-0.44	6.86	11.11
TF	one_palmitoleoyl_GPC	0.38	5.88	0.38	5.23	11.11
APOC3	X_05907	0.37	5.36	0.40	5.74	11.11
VASN	arabitol	0.36	5.13	0.41	5.98	11.11
AMBP	X_04495	0.43	7.48	0.32	3.63	11.11
IGFBP4	X_12104	0.48	9.46	0.20	1.63	11.09
CFHR2	X_12688	0.42	7.09	0.33	4.00	11.09
HPX	HPLA	-0.42	6.96	-0.34	4.12	11.08
APOA1	one_eicosatrienoyl_GPC	0.32	4.17	0.44	6.91	11.07
COPB1	seven_HOCA	0.32	4.08	0.44	6.99	11.07
VASN	X_12100	0.36	5.23	0.41	5.84	11.07
ORM2	N_acetylalanine	0.35	5.03	0.41	6.04	11.06
LUM	X_13553	0.32	4.23	0.44	6.83	11.06
C1QC	X_10395	-0.43	7.49	-0.31	3.56	11.05
SAA3P	four_acetaminophen_sulfate	0.31	3.97	0.45	7.08	11.04
S100A8	HPLA	0.41	6.85	0.34	4.20	11.04
APOA2	one_eicosatrienoyl_GPC	0.35	4.84	0.42	6.19	11.03
S100A8	X_13553	0.42	7.00	0.33	4.03	11.03
LCN2	allantoin	0.40	6.46	0.36	4.57	11.02
C7	caffeine	0.33	4.49	0.43	6.52	11.01
C7	X_11538	0.39	6.07	0.37	4.94	11.01
S100A9	octanoylcarnitine	0.37	5.54	0.39	5.47	11.00
RBP4	three_methylhistidine	0.30	3.63	0.46	7.37	11.00
ORM2	X_05522	0.39	6.22	0.37	4.78	11.00
CFHR2	glutaroylcarnitine	0.40	6.43	0.36	4.56	11.00
AHSG	X_11795	0.30	3.64	0.46	7.36	10.99
SAA1	threonine	-0.35	4.95	-0.41	6.04	10.99
AZGP1	pantothenate	0.39	6.07	0.37	4.91	10.99
REG1A	arabitol	0.33	4.44	0.43	6.55	10.99
IGFBP4	X_11429	0.46	8.66	0.25	2.32	10.99
SERPINA3	one_oleoyl_GPC	-0.38	5.83	-0.38	5.16	10.99
IGFBP4	X_12695	0.44	7.86	0.29	3.12	10.98
CRP	two_palmitoyl_GPC	-0.38	5.94	-0.38	5.04	10.98
ORM1	N2_N2_dimethylguanosine	0.39	6.05	0.37	4.93	10.97
SPINK1	N6_carbamoylthreonyladenosine	0.39	6.07	0.37	4.89	10.96
AHSG	X_12794	-0.34	4.56	-0.43	6.40	10.96
CFHR2	X_12206	0.34	4.77	0.42	6.19	10.96
REG1A	glutaroylcarnitine	0.33	4.41	0.43	6.55	10.96

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
CES1	X_12786	0.33	4.32	0.43	6.64	10.96
RNASE1	p_acetamidophenylglucuronide	0.31	4.01	0.44	6.94	10.95
CFHR2	hippurate	0.42	6.95	0.33	4.00	10.95
APOC2	X_10500	0.32	4.10	0.44	6.85	10.95
VASN	erythritol	0.36	5.28	0.40	5.67	10.95
FCGBP	X_10395	-0.45	8.01	-0.28	2.94	10.95
AHSG	hexanoylcarnitine	-0.39	6.10	-0.37	4.85	10.95
REG1A	urea	0.32	4.19	0.44	6.76	10.94
IGFBP4	pyridoxate	0.45	8.03	0.28	2.91	10.94
REG1A	phosphate	0.20	1.92	0.50	9.02	10.94
PLG	X_12802	-0.25	2.64	-0.48	8.30	10.93
AFP	HPLA	0.49	9.88	0.15	1.04	10.92
ORM1	X_05522	0.40	6.38	0.36	4.54	10.92
TF	one_palmitoyl_GPC	0.36	5.36	0.40	5.56	10.92
LCN2	X_12117	0.38	5.74	0.38	5.18	10.92
SAA1	X_12510	-0.39	5.95	-0.37	4.96	10.91
ITIH2	X_12794	-0.36	5.11	-0.41	5.80	10.90
ITIH2	two_methylbutyroylcarnitine	-0.29	3.56	-0.46	7.35	10.90
VASN	N6_carbamoylthreonyladenosine	0.37	5.54	0.39	5.35	10.89
HBD	AMP	0.25	2.72	0.48	8.17	10.89
ORM2	four_acetamidobutanoate	0.34	4.78	0.42	6.11	10.89
DEFA1	N_acetylneuraminate	0.27	3.04	0.47	7.84	10.88
ORM1	phenylacetylglutamine	0.31	4.04	0.44	6.84	10.88
LGALS3BP	X_12850	0.40	6.38	0.36	4.50	10.88
GPX3	creatinine	-0.41	6.80	-0.34	4.07	10.88
LUM	HPLA	0.30	3.68	0.45	7.19	10.87
VASN	X_12611	0.43	7.49	0.30	3.38	10.87
LCN2	X_11826	0.34	4.75	0.42	6.12	10.87
FCGBP	three_hydroxy_2_ethylpropionate	0.42	7.17	0.32	3.69	10.87
APOC3	X_11334	0.39	6.08	0.37	4.77	10.85
C1QB	seven_HOCA	0.37	5.57	0.39	5.28	10.85
SAA1	androsterone_sulfate	0.40	6.30	0.36	4.54	10.85
LYZ	X_11687	0.49	9.84	0.15	1.01	10.84
CES1	proline	0.30	3.69	0.45	7.15	10.84
VWF	taurocholate	0.38	5.78	0.38	5.06	10.84
AFM	tryptophan	0.40	6.53	0.35	4.30	10.84
SAA4	X_10500	0.34	4.76	0.41	6.08	10.83
VSIG4	X_13553	0.33	4.44	0.43	6.39	10.82
PLG	octanoylcarnitine	-0.28	3.31	-0.46	7.51	10.82
ORM1	N_acetylthreonine	0.41	6.89	0.33	3.93	10.82
AMBP	tiglyl_carnitine	0.33	4.39	0.43	6.42	10.81
RBP4	pantothenate	0.32	4.12	0.43	6.68	10.80
ITIH2	beta_hydroxyisovalerate	-0.39	6.02	-0.37	4.78	10.80
IGFBP4	hippurate	0.46	8.54	0.24	2.24	10.79
SERPINA3	mannose	0.26	2.97	0.47	7.81	10.78
SAA3P	glutamine	-0.38	5.72	-0.38	5.06	10.78
ORM2	N2_N2_dimethylguanosine	0.37	5.41	0.39	5.37	10.78
SAA1	palmitoylcarnitine	-0.42	7.13	-0.32	3.65	10.78
SPINK1	pseudouridine	0.41	6.88	0.33	3.89	10.77
SERPIND1	taurochenodeoxycholate	-0.41	6.88	-0.33	3.89	10.77
VSIG4	X_10483	0.40	6.46	0.35	4.31	10.77
ULK4	alpha_hydroxyisovalerate	-0.38	5.89	-0.37	4.88	10.77
APOC3	alpha_tocopherol	0.42	7.03	0.32	3.74	10.77
ORM1	prolylhydroxyproline	0.36	5.18	0.40	5.58	10.76
PLG	one_palmitoyl_GPC	0.30	3.66	0.45	7.11	10.76
VTN	threonate	-0.38	5.83	-0.37	4.94	10.76

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
REG1A	X_12217	0.33	4.37	0.43	6.39	10.76
LBP	mannose	0.34	4.63	0.42	6.13	10.76
PLG	X_03056	-0.28	3.20	-0.46	7.56	10.76
LYZ	X_11593	0.48	9.41	0.17	1.34	10.75
CFHR2	X_11593	0.35	4.96	0.40	5.79	10.75
S100A9	three_hydroxy_2_ethylpropionate	0.39	6.05	0.36	4.69	10.74
ULK4	X_12850	-0.47	8.71	-0.23	2.03	10.73
LCN2	X_12458	0.33	4.36	0.42	6.37	10.73
RNASE1	X_11437	0.34	4.73	0.41	6.00	10.73
LCN2	xylonate	0.37	5.40	0.39	5.33	10.73
APOD	cholesterol	0.34	4.66	0.41	6.07	10.72
APOH	X_12844	0.38	5.66	0.38	5.06	10.72
TF	one_five_anhydroglucitol	0.27	3.03	0.47	7.69	10.72
C1QB	SDMA	0.40	6.54	0.34	4.16	10.71
ORM1	X_12117	0.36	5.33	0.39	5.37	10.70
DEFA1	X_03056	0.27	3.01	0.47	7.69	10.70
APOA1	one_stearoyl_GPC	0.25	2.70	0.47	8.00	10.70
RBMX	alpha_hydroxyisovalerate	0.40	6.28	0.35	4.42	10.70
RBP4	X_03951	0.25	2.73	0.47	7.96	10.69
AZGP1	X_03056	0.38	5.84	0.37	4.85	10.69
APOA1	piperine	0.40	6.50	0.34	4.19	10.69
LBP	tryptophan	-0.37	5.51	-0.38	5.18	10.69
LCN2	X_12217	0.38	5.66	0.38	5.02	10.68
IGFBP4	X_12100	0.45	8.10	0.26	2.59	10.68
AMBP	two_hydroxyacetaminophen_sulfate	0.26	2.93	0.47	7.75	10.68
ICAM2	taurocholate	0.35	5.03	0.40	5.65	10.68
REG1A	X_11429	0.34	4.80	0.41	5.88	10.68
REG1A	X_04498	0.35	4.96	0.40	5.70	10.66
RBP4	X_12104	0.30	3.69	0.44	6.96	10.66
CST3	xylose	0.30	3.61	0.45	7.04	10.65
AZGP1	X_04504	0.39	5.98	0.36	4.67	10.64
GPX3	phenylacetylglutamine	-0.39	5.95	-0.36	4.69	10.64
SERPIND1	X_10395	0.45	8.19	0.25	2.44	10.63
PGLYRP2	one_palmitoyl_GPC	0.36	5.32	0.39	5.31	10.63
LCN2	X_03951	0.38	5.85	0.37	4.78	10.63
S100A8	androsterone_sulfate	0.38	5.75	0.37	4.88	10.63
LBP	X_11273	0.40	6.28	0.35	4.35	10.63
DEFA1	two_methylbutyroylcarnitine	0.31	4.01	0.43	6.61	10.63
AFM	one_palmitoleoyl_GPC	0.41	6.84	0.32	3.77	10.61
S100A8	X_11443	0.36	5.20	0.39	5.41	10.61
LCN2	X_10266	0.35	4.83	0.40	5.77	10.61
CFD	X_12095	0.38	5.68	0.37	4.92	10.60
SEPP1	one_palmitoyl_GPC	0.45	8.26	0.25	2.34	10.60
CFHR2	N_acetylneuraminate	0.38	5.67	0.37	4.93	10.60
DEFA1	one_oleoyl_GPC	-0.09	0.58	-0.53	10.02	10.59
CFHR2	X_12092	0.36	5.17	0.39	5.42	10.59
REG1A	X_11423	0.26	2.86	0.47	7.72	10.59
IGFBP4	X_11826	0.43	7.43	0.29	3.15	10.59
AZGP1	N2_N2_dimethylguanosine	0.39	5.96	0.36	4.62	10.58
GPX3	X_05426	-0.33	4.50	-0.41	6.08	10.58
SERPIND1	X_11538	-0.36	5.12	-0.39	5.46	10.58
HP	citrate	-0.40	6.27	-0.35	4.30	10.57
CD14	one_linoleoyl_GPC	-0.25	2.73	-0.47	7.84	10.56
VTN	N6_carbamoylthreonyladenosine	-0.31	4.03	-0.43	6.52	10.55
ORM2	phenylacetylglutamine	0.30	3.73	0.44	6.83	10.55
PLEK	aspartate	0.26	2.82	0.47	7.74	10.55

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
CD14	three_hydroxy_2_ethylpropionate	0.36	5.09	0.39	5.45	10.55
ORM2	X_10483	0.36	5.14	0.39	5.40	10.55
CFD	X_08889	0.31	3.97	0.43	6.58	10.55
B2M	isobutyrylcarnitine	0.36	5.13	0.39	5.41	10.54
SAA4	one_stearoylglycerol	0.33	4.50	0.41	6.03	10.53
SAA3P	X_03056	0.45	7.96	0.26	2.56	10.52
GPX3	alpha_hydroxyisovalerate	0.46	8.59	0.22	1.92	10.51
VTN	X_12695	-0.27	3.04	-0.46	7.47	10.51
DEFA1	hexanoylcarnitine	0.26	2.96	0.46	7.54	10.50
DEFA1	X_04595	0.41	6.57	0.33	3.93	10.50
S100A9	X_12794	0.43	7.34	0.29	3.16	10.50
ORM1	one_stearoyl_GPC	-0.39	6.08	-0.35	4.41	10.50
REG1A	X_12405	0.25	2.62	0.47	7.88	10.49
S100A8	butyrylcarnitine	0.45	8.06	0.25	2.44	10.49
KNG1	X_09789	0.38	5.77	0.36	4.72	10.49
LCN2	arabinose	0.35	4.94	0.40	5.54	10.48
VASN	X_11423	0.37	5.38	0.38	5.10	10.48
RBP4	N6_carbamoylthreonyladenosine	0.29	3.47	0.45	7.00	10.47
CFD	X_04498	0.31	3.98	0.43	6.49	10.46
VTN	X_12104	-0.34	4.68	-0.40	5.78	10.46
LCN2	prolylhydroxyproline	0.34	4.59	0.41	5.85	10.44
VTN	allantoin	-0.32	4.30	-0.42	6.14	10.44
RNASE1	three_cystein_S_yl_acetaminophen	0.25	2.66	0.47	7.78	10.44
FCGBP	X_12802	0.28	3.37	0.45	7.07	10.44
VTN	erythronate	-0.32	4.17	-0.42	6.27	10.43
ORM2	X_04499	0.39	6.00	0.35	4.43	10.43
LGALS3BP	proline	0.42	6.99	0.31	3.44	10.43
AZGP1	allantoin	0.37	5.53	0.37	4.90	10.43
AHSG	tryptophan	0.35	5.03	0.39	5.39	10.43
VASN	X_04507	0.36	5.31	0.38	5.11	10.43
FCGBP	N_acetylneuraminate	0.37	5.39	0.38	5.04	10.42
KNG1	one_stearoyl_GPC	0.37	5.36	0.38	5.05	10.41
REG1A	three_indoxyl_sulfate	0.21	1.98	0.49	8.42	10.40
LYZ	X_04504	0.48	9.26	0.16	1.14	10.40
GPX3	X_12117	-0.38	5.83	-0.36	4.56	10.39
APOC1	X_05907	0.36	5.15	0.38	5.24	10.39
DEFA1	three_hydroxy_2_ethylpropionate	0.25	2.64	0.47	7.74	10.38
GPX3	threitol	-0.38	5.73	-0.36	4.65	10.38
APOA4	four_vinylphenol_sulfate	0.36	5.32	0.38	5.07	10.38
SAA1	citrate	-0.42	6.98	-0.31	3.40	10.38
SERPINA3	two_palmitoyl_GPC	-0.38	5.68	-0.36	4.69	10.38
VASN	X_11687	0.33	4.31	0.41	6.07	10.38
APOC3	creatinine	0.36	5.21	0.38	5.16	10.37
VWF	one_stearoyl_GPC	-0.31	3.84	-0.43	6.53	10.37
IGFBP4	X_12095	0.46	8.65	0.20	1.72	10.37
LCN2	one_arachidoyl_GPE	-0.32	4.26	-0.42	6.10	10.36
COL3A1	HPLA	0.44	7.65	0.27	2.71	10.36
S100A8	N_acetylalanine	0.39	6.03	0.35	4.33	10.36
PTGDS	X_09789	0.33	4.40	0.41	5.96	10.36
CST3	carnitine	-0.28	3.31	-0.45	7.04	10.35
LCN2	X_12099	0.41	6.72	0.32	3.63	10.35
TF	one_linoleoyl_GPC	0.34	4.75	0.40	5.60	10.35
CFHR2	X_10483	0.39	6.15	0.34	4.20	10.35
RNASE1	malate	0.37	5.52	0.37	4.83	10.35
PLG	one_stearoyl_GPC	0.31	4.00	0.42	6.34	10.34
APOC3	gulono_1_4_lactone	0.37	5.48	0.37	4.86	10.34

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
ORM2	X_11786	-0.39	6.10	-0.34	4.24	10.34
S100A8	urea	0.42	7.05	0.30	3.29	10.34
APOB	alpha_tocopherol	0.36	5.21	0.38	5.12	10.34
CRP	one_oleoyl_GPE	-0.38	5.74	-0.36	4.59	10.33
LRG1	threonine	-0.35	5.01	-0.39	5.32	10.33
GC	hexanoylcarnitine	-0.34	4.66	-0.40	5.66	10.33
PGLYRP2	one_stearoyl_GPC	0.37	5.41	0.37	4.91	10.32
PTGDS	X_11510	0.40	6.53	0.32	3.79	10.32
REG1A	mannitol	0.37	5.43	0.37	4.88	10.31
VTN	X_11334	-0.31	4.06	-0.42	6.24	10.30
APOH	X_10395	0.41	6.88	0.31	3.42	10.30
SERPINA3	tryptophan	-0.34	4.68	-0.40	5.62	10.30
AZGP1	X_04499	0.34	4.64	0.40	5.66	10.30
ORM1	one_methylimidazoleacetate	0.33	4.39	0.41	5.90	10.29
AZGP1	X_04629	0.40	6.27	0.33	4.01	10.29
KNG1	glutamate	0.30	3.78	0.43	6.51	10.29
COL11A2	one_linoleoyl_GPC	0.33	4.32	0.41	5.96	10.29
GPX3	X_10359	-0.36	5.20	-0.38	5.08	10.28
GPX3	threonine	0.47	8.73	0.19	1.55	10.28
S100A9	androsterone_sulfate	0.42	6.91	0.30	3.36	10.27
AMBP	threonine	-0.40	6.52	-0.32	3.75	10.27
FCGBP	X_03056	0.30	3.76	0.43	6.50	10.26
CD14	one_stearoyl_GPC	-0.25	2.78	-0.46	7.48	10.26
MB	HPLA	0.28	3.35	0.44	6.91	10.26
SPINK1	X_12802	0.35	4.82	0.39	5.44	10.26
SERPINC1	alpha_hydroxyisovalerate	-0.42	7.17	-0.29	3.09	10.26
F12	X_12510	0.33	4.45	0.41	5.80	10.25
PLG	one_eicosatrienoyl_GPC	0.22	2.16	0.48	8.09	10.25
AZGP1	X_11261	0.45	8.09	0.23	2.15	10.24
SPINK1	X_03951	0.36	5.32	0.37	4.92	10.24
AMBP	tryptophan	-0.40	6.38	-0.33	3.86	10.24
VTN	X_12206	-0.40	6.41	-0.33	3.82	10.24
GPX3	glycochenodeoxycholate	0.42	6.95	0.30	3.28	10.23
ORM1	X_10395	-0.33	4.34	-0.41	5.89	10.23
RNASE1	X_11838	0.31	3.84	0.43	6.38	10.22
B2M	malate	0.38	5.71	0.36	4.51	10.22
APOC2	X_06346	0.35	4.92	0.39	5.30	10.22
LYZ	X_12100	0.49	9.58	0.10	0.63	10.22
SAA1	X_05522	0.42	6.98	0.30	3.23	10.21
PON1	X_13553	-0.32	4.16	-0.41	6.06	10.21
LCN2	X_12644	-0.28	3.26	-0.44	6.94	10.20
AZGP1	isobutyrylcarnitine	0.41	6.70	0.31	3.50	10.20
LGALS3BP	glycocholate	0.36	5.34	0.37	4.84	10.18
LCN2	myo_inositol	0.37	5.39	0.37	4.79	10.18
PTGDS	deoxycarnitine	0.43	7.29	0.28	2.89	10.18
ORM2	seven_HOCA	-0.40	6.25	-0.33	3.93	10.18
S100A9	X_04499	0.38	5.93	0.34	4.24	10.17
COL11A2	tryptophan	0.30	3.83	0.42	6.34	10.17
CFHR2	X_12095	0.35	4.87	0.39	5.29	10.17
C1QA	SDMA	0.31	3.93	0.42	6.24	10.16
C1QB	taurocholate	0.44	7.69	0.25	2.48	10.16
RBP4	phenol_sulfate	0.33	4.45	0.40	5.69	10.14
REG1A	hippurate	0.32	4.09	0.41	6.05	10.14
FCGBP	N_acetylalanine	0.28	3.32	0.44	6.82	10.14
SERPINA3	X_03056	0.42	7.16	0.28	2.97	10.13
PRDX2	AMP	0.30	3.71	0.43	6.42	10.13

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
IGFBP4	X_12688	0.43	7.44	0.27	2.69	10.13
CFHR2	prolylhydroxyproline	0.38	5.75	0.35	4.37	10.12
FABP1	pipecolate	0.29	3.39	0.44	6.73	10.12
CST3	p_cresol_sulfate	0.31	3.95	0.42	6.16	10.12
APOC3	glycerol_3_phosphate	0.41	6.60	0.31	3.51	10.11
APOC1	one_palmitoylglycerol	0.45	8.30	0.21	1.80	10.10
MB	X_13553	0.37	5.51	0.36	4.57	10.08
IGFBP4	X_10266	0.42	7.10	0.28	2.98	10.08
RBP4	four_vinylphenol_sulfate	0.33	4.40	0.40	5.68	10.08
VSIG4	X_11687	0.40	6.33	0.32	3.75	10.08
APOH	X_11444	0.38	5.78	0.35	4.30	10.08
RNASE1	four_acetaminophen_sulfate	0.27	3.07	0.45	7.00	10.07
GSN	X_09789	0.34	4.69	0.39	5.38	10.07
RBP4	four_acetamidobutanoate	0.28	3.25	0.44	6.81	10.05
LYZ	phenol_sulfate	0.47	8.73	0.17	1.32	10.05
CRP	one_arachidoyl_GPE	-0.36	5.27	-0.37	4.77	10.05
CES1	phenylalanine	0.12	0.84	0.51	9.21	10.05
SERPINA3	androsterone_sulfate	0.38	5.92	0.34	4.13	10.04
AHSG	X_04499	-0.39	6.02	-0.33	4.03	10.04
SPINK1	N_acetylalanine	0.38	5.72	0.35	4.32	10.04
VASN	X_12117	0.36	5.29	0.37	4.75	10.04
REG1A	HPLA	0.34	4.80	0.38	5.24	10.04
IGFBP4	X_13553	0.41	6.70	0.30	3.34	10.04
AFM	glutamate	0.35	4.99	0.38	5.05	10.04
PLG	X_10395	0.43	7.44	0.26	2.59	10.03
APOH	alpha_hydroxyisovalerate	-0.39	6.13	-0.33	3.90	10.03
CFD	X_05522	0.26	2.95	0.45	7.07	10.03
FCGBP	one_palmitoyl_GPC	-0.25	2.71	-0.45	7.31	10.03
APCS	myristoleate	-0.39	6.15	-0.33	3.88	10.02
LBP	three_hydroxy_2_ethylpropionate	0.42	6.93	0.29	3.09	10.02
SAA3P	threonine	-0.33	4.37	-0.40	5.65	10.02
CD14	one_palmitoyl_GPC	-0.31	4.02	-0.41	5.99	10.02
APCS	pipecolate	-0.41	6.66	-0.30	3.35	10.01
PON1	N_acetylalanine	-0.32	4.10	-0.41	5.91	10.01
AZGP1	X_12742	0.37	5.44	0.36	4.57	10.01
REG1A	X_10266	0.32	4.29	0.40	5.71	10.01
VTN	X_11429	-0.30	3.77	-0.42	6.24	10.01
VASN	N_acetylthreonine	0.34	4.71	0.39	5.29	10.00
SAA1	X_03056	0.44	7.74	0.24	2.26	10.00
AZGP1	hippurate	0.39	6.14	0.33	3.85	10.00
HRG	hexanoylcarnitine	-0.39	6.25	-0.32	3.75	9.99
VSIG4	malate	0.36	5.19	0.37	4.80	9.99
ITIH2	X_03056	-0.33	4.47	-0.40	5.52	9.99
CFD	citrulline	0.46	8.58	0.18	1.40	9.98
REG1A	threitol	0.28	3.28	0.44	6.70	9.98
APOH	taurochenodeoxycholate	-0.33	4.36	-0.40	5.62	9.98
RBP4	X_11593	0.26	2.79	0.45	7.18	9.97
REG1A	X_12100	0.36	5.13	0.37	4.83	9.96
VTN	X_11687	-0.31	4.01	-0.41	5.95	9.96
APOA2	HPLA	-0.43	7.47	-0.26	2.49	9.96
S100A8	octanoylcarnitine	0.41	6.64	0.30	3.32	9.96
CD14	X_10483	0.33	4.49	0.39	5.47	9.96
ITIH2	N_acetylalanine	-0.31	4.06	-0.41	5.89	9.95
LBP	X_11302	0.30	3.62	0.42	6.33	9.95
REG1A	X_12794	0.31	3.87	0.42	6.09	9.95
CFD	myo_inositol	0.33	4.31	0.40	5.64	9.95

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
MB	two_methylbutyroylcarnitine	0.45	8.30	0.20	1.63	9.94
REG1A	X_12095	0.30	3.75	0.42	6.19	9.93
APOA4	X_05426	0.38	5.72	0.34	4.21	9.93
TIMP1	two_palmitoyl_GPC	-0.27	3.01	-0.44	6.91	9.93
RNASE1	three_methylhistidine	0.40	6.51	0.31	3.41	9.93
LUM	three_methylhistidine	0.44	7.79	0.23	2.14	9.93
SERPINA3	glutamate	-0.40	6.32	-0.31	3.60	9.92
SPINK1	X_12742	0.35	4.86	0.38	5.06	9.92
SERPINA3	X_10395	-0.45	7.95	-0.22	1.96	9.91
RBP4	indolelactate	0.39	6.18	0.32	3.73	9.91
VSIG4	X_04499	0.40	6.34	0.31	3.58	9.91
SERPINA3	one_arachidoyl_GPE	-0.38	5.85	-0.34	4.06	9.91
LUM	X_12850	0.31	3.88	0.41	6.03	9.91
A1BG	X_03056	-0.42	7.13	-0.27	2.78	9.91
AZGP1	one_methylimidazoleacetate	0.35	4.87	0.38	5.03	9.90
PLG	SDMA	-0.19	1.65	-0.48	8.26	9.90
RBP4	N2_N2_dimethylguanosine	0.26	2.79	0.45	7.12	9.90
LYZ	X_10266	0.48	9.31	0.10	0.59	9.90
CD14	X_12100	0.28	3.36	0.43	6.53	9.90
CFD	X_12206	0.38	5.67	0.34	4.22	9.89
ADIPOQ	X_12095	0.39	6.23	0.32	3.65	9.89
CST3	four_methyl_2_oxopentanoate	-0.38	5.90	-0.33	3.99	9.89
CFHR2	gluconate	0.43	7.50	0.25	2.38	9.88
TF	X_12794	-0.33	4.36	-0.40	5.52	9.88
VSIG4	X_12458	0.32	4.09	0.40	5.79	9.88
BAI2	one_palmitoyl_GPC	-0.31	3.85	-0.41	6.02	9.87
LUM	taurochenodeoxycholate	0.34	4.78	0.38	5.09	9.87
CFHR2	X_12749	0.32	4.25	0.40	5.62	9.87
S100A9	hydroxyisovaleroylcarnitine	0.41	6.64	0.30	3.23	9.86
VWF	pipecolate	0.36	5.16	0.36	4.70	9.86
VWF	X_06346	-0.37	5.64	-0.34	4.22	9.86
HRG	HPLA	-0.40	6.29	-0.31	3.56	9.86
VWF	X_14658	0.37	5.46	0.35	4.40	9.86
CST3	malate	0.39	5.96	0.33	3.88	9.85
AZGP1	X_11315	-0.36	5.24	-0.36	4.60	9.84
C4BPA	myristoleate	-0.40	6.43	-0.31	3.41	9.84
APOC3	threitol	0.34	4.59	0.38	5.24	9.84
SERPINA6	one_stearoyl_GPC	-0.36	5.23	-0.36	4.60	9.83
COL11A2	X_11452	0.27	3.13	0.44	6.70	9.83
SAA3P	androsterone_sulfate	0.38	5.79	0.34	4.04	9.83
AFM	X_04499	-0.40	6.43	-0.30	3.39	9.83
DEFA1	X_10483	0.23	2.25	0.46	7.58	9.82
PGLYRP2	X_11786	0.41	6.63	0.29	3.19	9.82
ORM1	one_five_anhydroglucitol	-0.28	3.28	-0.43	6.54	9.82
GPX3	gulono_1_4_lactone	-0.39	6.01	-0.32	3.81	9.82
APOC2	X_10510	0.37	5.37	0.35	4.45	9.82
CFHR2	X_04629	0.34	4.80	0.38	5.02	9.82
GPX3	threonate	-0.39	5.99	-0.33	3.82	9.82
HPX	X_11510	-0.35	4.86	-0.37	4.96	9.82
SERPIND1	pipecolate	-0.34	4.57	-0.38	5.25	9.81
CFHR2	xylose	0.39	6.11	0.32	3.70	9.81
APOC2	X_10744	0.38	5.66	0.34	4.14	9.80
F12	one_palmitoleoyl_GPC	0.43	7.35	0.25	2.45	9.80
COL11A2	one_stearoyl_GPC	0.32	4.25	0.40	5.55	9.80
RNASE1	citrulline	0.20	1.84	0.47	7.95	9.79
SERPINA6	X_03056	0.36	5.28	0.36	4.51	9.78

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
APCS	taurocholate	-0.41	6.65	-0.29	3.12	9.78
CST3	one_palmitoyl_GPC	-0.32	4.28	-0.39	5.49	9.78
RBP4	glutamate	0.36	5.11	0.36	4.66	9.77
VASN	X_10483	0.33	4.43	0.39	5.34	9.77
AFM	two_palmitoyl_GPC	0.38	5.77	0.33	4.00	9.77
CFD	X_11261	0.34	4.72	0.38	5.04	9.76
RBMX	glycochenodeoxycholate	0.43	7.29	0.25	2.48	9.76
AZGP1	X_12101	0.36	5.13	0.36	4.63	9.76
PTGDS	CMPF	0.28	3.25	0.43	6.51	9.76
CD14	one_methylimidazoleacetate	0.29	3.42	0.42	6.34	9.76
SAA3P	palmitoylcarnitine	-0.39	6.16	-0.31	3.60	9.76
APOC3	X_12844	0.31	3.96	0.40	5.79	9.76
SERPIND1	glycochenodeoxycholate	-0.40	6.45	-0.30	3.30	9.75
SEPP1	one_arachidoyl_GPE	0.43	7.27	0.26	2.48	9.75
ORM1	creatine	0.37	5.44	0.35	4.30	9.75
AZGP1	choline	0.40	6.42	0.30	3.32	9.73
RBP4	erythritol	0.28	3.24	0.43	6.50	9.73
ORM1	erythronate	0.35	4.94	0.37	4.79	9.73
ORM2	one_methylimidazoleacetate	0.31	3.86	0.41	5.87	9.73
CST3	X_11437	0.30	3.74	0.41	5.98	9.72
VASN	X_12802	0.37	5.45	0.35	4.26	9.72
LUM	X_09789	0.39	6.20	0.31	3.51	9.71
RNASE1	HPLA	0.31	4.02	0.40	5.68	9.70
VWF	X_04357	0.42	6.96	0.27	2.74	9.70
S100A8	X_04495	0.38	5.69	0.33	4.00	9.70
CFD	X_09789	0.41	6.82	0.28	2.88	9.69
FCGBP	X_04499	0.36	5.19	0.36	4.50	9.69
VWF	one_linoleoyl_GPC	-0.33	4.48	-0.38	5.21	9.69
SERPIND1	X_13553	-0.33	4.44	-0.39	5.25	9.69
TF	two_palmitoyl_GPC	0.33	4.35	0.39	5.34	9.69
LGALS3BP	X_12786	0.38	5.80	0.33	3.89	9.68
SAA4	X_08402	0.39	5.95	0.32	3.73	9.68
CD14	one_arachidoyl_GPC	-0.24	2.48	-0.45	7.20	9.68
AMBP	histidine	-0.35	5.05	-0.36	4.63	9.68
ITIH3	mannose	0.26	2.87	0.44	6.81	9.68
CFHR2	X_12101	0.37	5.53	0.34	4.14	9.67
VSIG4	N2_N2_dimethylguanosine	0.39	6.15	0.31	3.52	9.67
GPX3	bilirubin	0.41	6.67	0.28	3.00	9.67
CST3	hexanoylcarnitine	0.37	5.49	0.34	4.18	9.67
DEFA1	X_12802	0.24	2.57	0.45	7.09	9.66
VSIG4	X_04498	0.38	5.73	0.33	3.94	9.66
SAA1	proline	-0.33	4.52	-0.38	5.14	9.66
AMBP	X_04595	0.32	4.21	0.39	5.45	9.66
FABP1	gamma_glutamyltyrosine	0.29	3.53	0.42	6.12	9.66
VASN	threitol	0.35	5.04	0.36	4.60	9.65
SERPIND1	SDMA	-0.38	5.72	-0.33	3.92	9.64
CRP	X_11786	-0.31	3.88	-0.40	5.76	9.64
C1QC	SDMA	0.26	2.91	0.44	6.72	9.63
DEFA1	X_11687	0.27	3.01	0.43	6.62	9.63
RBP4	X_04504	0.30	3.61	0.41	6.02	9.62
SAA3P	X_12510	-0.34	4.79	-0.37	4.83	9.62
PGLYRP2	X_12794	-0.35	5.05	-0.36	4.58	9.62
AZGP1	N_acetylglycine	0.34	4.76	0.37	4.86	9.62
ORM1	X_11593	0.33	4.55	0.38	5.07	9.62
ULK4	methionine	-0.36	5.23	-0.35	4.39	9.62
LCN2	X_12611	0.39	6.02	0.31	3.59	9.62

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
CST3	one_eicosatrienoyl_GPC	-0.31	4.00	-0.40	5.61	9.61
PON1	X_04498	-0.33	4.38	-0.38	5.23	9.61
C7	malate	0.34	4.77	0.37	4.84	9.61
REG1A	X_12099	0.35	5.01	0.36	4.59	9.60
S100A9	one_linoleoyl_GPC	-0.26	2.80	-0.44	6.80	9.60
CLU	one_palmitoyl_GPC	0.30	3.70	0.41	5.90	9.60
ICAM2	methionine	0.40	6.47	0.29	3.13	9.60
GPX3	X_11826	-0.32	4.16	-0.39	5.44	9.60
TTR	X_06346	0.41	6.66	0.28	2.93	9.59
RBP4	xylose	0.22	2.18	0.46	7.42	9.59
LUM	four_vinylphenol_sulfate	0.36	5.33	0.34	4.25	9.58
RBP4	allantoin	0.31	4.05	0.40	5.53	9.58
HPR	malate	-0.28	3.36	-0.42	6.22	9.58
RBP4	X_10266	0.35	5.07	0.36	4.50	9.57
AZGP1	X_12688	0.37	5.54	0.33	4.02	9.56
SERPINA3	X_12510	-0.36	5.11	-0.35	4.45	9.56
DEFA1	N2_N2_dimethylguanosine	0.22	2.15	0.46	7.41	9.56
VSIG4	X_11429	0.42	7.03	0.26	2.53	9.55
AZGP1	X_10483	0.36	5.26	0.35	4.29	9.55
LCN2	X_05522	0.32	4.25	0.39	5.30	9.55
APOH	X_12104	0.38	5.83	0.32	3.71	9.54
LUM	seven_HOCA	0.26	2.89	0.43	6.65	9.53
AHSG	one_oleoyl_GPC	0.32	4.17	0.39	5.36	9.53
RBP4	X_12749	0.29	3.46	0.41	6.06	9.52
CST3	X_12850	0.45	8.01	0.19	1.51	9.51
S100A8	beta_hydroxyisovalerate	0.40	6.43	0.29	3.08	9.51
FABP1	glycochenodeoxycholate	0.19	1.69	0.47	7.82	9.51
LUM	indolelactate	0.34	4.78	0.36	4.73	9.51
AFM	piperine	0.34	4.80	0.36	4.71	9.51
SHBG	X_11244	-0.31	3.94	-0.40	5.57	9.51
ADIPOQ	quinate	0.35	5.01	0.35	4.50	9.51
SAA1	two_methoxyacetaminophen_sulfate	0.22	2.16	0.46	7.34	9.50
CD14	pseudouridine	0.32	4.21	0.39	5.29	9.50
CFD	X_12794	0.23	2.26	0.45	7.24	9.50
DEFA1	X_12860	0.31	3.84	0.40	5.65	9.50
B2M	kynurenine	0.32	4.12	0.39	5.37	9.49
VSIG4	N_acetylalanine	0.39	6.13	0.30	3.35	9.48
CFHR2	X_12844	0.30	3.80	0.40	5.68	9.48
B2M	HPLA	0.35	4.94	0.36	4.54	9.47
CES1	histidine	0.36	5.12	0.35	4.35	9.47
CFD	catechol_sulfate	0.40	6.33	0.29	3.14	9.47
CFD	X_04499	0.25	2.75	0.44	6.71	9.47
AMBP	isobutyrylcarnitine	0.31	3.94	0.39	5.52	9.46
CFD	indolelactate	0.41	6.75	0.27	2.71	9.46
TF	X_03056	-0.35	4.95	-0.36	4.51	9.46
FCGBP	one_stearoyl_GPC	-0.16	1.27	-0.48	8.17	9.45
C7	pipecolate	0.35	4.88	0.36	4.56	9.44
HRG	one_palmitoyl_GPC	0.34	4.73	0.36	4.70	9.44
REG1A	X_12742	0.30	3.80	0.40	5.63	9.43
LBP	X_12644	-0.32	4.22	-0.38	5.21	9.43
S100A9	one_oleoyl_GPC	-0.21	2.08	-0.46	7.35	9.43
LUM	citrate	0.39	6.02	0.31	3.41	9.43
VSIG4	N_acetylneuraminate	0.39	6.23	0.29	3.20	9.42
APOL1	X_04499	-0.44	7.85	-0.19	1.57	9.42
GPX3	X_04507	-0.35	5.00	-0.35	4.42	9.42

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
LBP	palmitoylcarnitine	-0.40	6.33	-0.29	3.09	9.42
C4BPA	seven_HOCA	-0.44	7.67	-0.21	1.75	9.42
COPB1	X_11538	0.27	3.12	0.42	6.29	9.41
AZGP1	sucrose	0.30	3.66	0.40	5.75	9.41
SERPINA3	butyrylcarnitine	0.38	5.88	0.31	3.53	9.41
LYZ	X_12104	0.47	8.90	0.09	0.51	9.41
HRG	one_methyladenosine	-0.41	6.64	-0.27	2.77	9.41
CFHR2	X_12794	0.36	5.10	0.35	4.31	9.41
VWF	X_12786	0.35	4.92	0.35	4.49	9.41
SERPINA3	citrulline	-0.38	5.76	-0.32	3.64	9.41
RNASE1	two_methylbutyroylcarnitine	0.29	3.45	0.41	5.95	9.41
REG1A	myo_inositol	0.30	3.79	0.40	5.61	9.40
ECM1	betaine	0.39	6.12	0.30	3.28	9.40
TAGLN2	AMP	0.37	5.54	0.33	3.86	9.40
ORM2	glutamine	-0.37	5.50	-0.33	3.90	9.40
ORM1	N_acetylneuraminate	0.37	5.41	0.33	3.99	9.40
SAA3P	two_methoxyacetaminophen_sulfate	0.21	2.06	0.46	7.34	9.40
FCGBP	X_10483	0.33	4.55	0.37	4.84	9.40
TF	X_11880	0.25	2.69	0.44	6.71	9.39
APOC3	X_04507	0.33	4.43	0.37	4.96	9.39
S100A8	X_12458	0.41	6.63	0.27	2.76	9.39
TIMP1	three_hydroxy_2_ethylpropionate	0.28	3.33	0.41	6.06	9.39
APOA2	X_04499	-0.38	5.79	-0.31	3.60	9.39
LCN2	two_palmitoyl_GPC	-0.23	2.33	-0.45	7.05	9.38
PTGDS	tiglyl_carnitine	0.33	4.39	0.38	4.99	9.38
GPX3	X_11261	-0.42	7.08	-0.24	2.30	9.38
AMBP	tyrosine	-0.40	6.53	-0.28	2.85	9.38
SAA3P	X_11593	0.39	6.08	0.30	3.29	9.37
LCN2	glutaroylcarnitine	0.34	4.78	0.36	4.60	9.37
ORM1	X_04507	0.35	4.83	0.36	4.54	9.37
MB	hexanoylcarnitine	0.29	3.41	0.41	5.96	9.37
KLKB1	one_palmitoyl_GPC	0.41	6.64	0.27	2.73	9.37
CFHR2	four_acetamidobutanoate	0.37	5.59	0.32	3.78	9.36
C1QC	glycochenodeoxycholate	0.38	5.87	0.31	3.49	9.35
AMBP	citrulline	0.24	2.56	0.44	6.79	9.35
VTN	erythritol	-0.32	4.21	-0.38	5.14	9.35
IGFBP4	arabinose	0.44	7.77	0.19	1.59	9.35
CST3	gluconate	0.38	5.74	0.31	3.60	9.34
CD14	three_cystein_S_yl_acetaminophen	0.35	5.03	0.35	4.31	9.34
AZGP1	SDMA	0.36	5.13	0.34	4.21	9.34
APOC3	arabitol	0.35	4.97	0.35	4.37	9.34
C1QA	X_13553	0.39	6.12	0.30	3.22	9.34
RNASE1	octanoylcarnitine	0.24	2.50	0.44	6.84	9.33
APOC3	X_10359	0.35	4.90	0.35	4.43	9.33
AZGP1	X_05426	0.37	5.62	0.32	3.71	9.33
ORM2	one_five_anhydroglucitol	-0.26	2.88	-0.43	6.45	9.33
ULK4	pipecolate	-0.36	5.23	-0.34	4.09	9.32
GPX3	X_11334	-0.36	5.08	-0.34	4.24	9.32
SERPIND1	taurocholate	-0.40	6.39	-0.28	2.93	9.32
CRP	one_arachidoyl_GPC	-0.36	5.30	-0.33	4.02	9.32
CFD	X_04629	0.31	4.00	0.39	5.32	9.32
CST3	X_02249	0.32	4.17	0.38	5.15	9.32
ORM2	X_12092	0.38	5.85	0.31	3.47	9.32
PGLYRP2	X_03056	-0.38	5.86	-0.31	3.46	9.32
REG1A	X_05522	0.27	3.13	0.42	6.19	9.32

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
SAA1	glycine	-0.17	1.42	-0.47	7.90	9.32
AHSG	decanoylcarnitine	-0.34	4.74	-0.36	4.57	9.32
LUM	citrulline	0.37	5.50	0.33	3.82	9.32
CES1	X_04357	0.36	5.16	0.34	4.16	9.31
LUM	xylonate	0.32	4.16	0.38	5.15	9.31
AZGP1	arabinose	0.38	5.94	0.30	3.37	9.31
APCS	caffeine	-0.39	6.09	-0.30	3.22	9.31
VTN	X_12117	-0.30	3.72	-0.40	5.58	9.30
APOC3	X_12038	0.28	3.23	0.41	6.07	9.30
VWF	glycochenodeoxycholate	0.32	4.30	0.38	5.00	9.30
VASN	X_12742	0.32	4.10	0.38	5.20	9.30
SAA1	tryptophan	-0.32	4.21	-0.38	5.09	9.30
CRP	mannose	0.29	3.53	0.40	5.77	9.29
LCN2	one_eicosatrienoyl_GPC	-0.16	1.24	-0.48	8.05	9.29
ORM1	one_palmitoleoyl_GPC	-0.38	5.85	-0.31	3.44	9.29
S100A8	X_12611	0.40	6.36	0.28	2.92	9.28
SPINK1	X_10483	0.38	5.86	0.31	3.41	9.28
ADIPOQ	threitol	0.38	5.92	0.30	3.36	9.28
ORM2	erythronate	0.33	4.45	0.37	4.83	9.27
ORM1	mannose	0.35	5.01	0.34	4.26	9.27
VTN	X_03056	-0.31	3.98	-0.39	5.29	9.27
PON1	N_acetylthreonine	-0.28	3.19	-0.41	6.08	9.27
HPR	citrulline	-0.33	4.31	-0.37	4.96	9.27
CFHR2	N_acetylthreonine	0.42	7.02	0.24	2.25	9.27
DEFA1	HPLA	0.30	3.83	0.39	5.43	9.26
SPINK1	X_11687	0.38	5.82	0.31	3.43	9.25
LBP	one_eicosatrienoyl_GPC	-0.38	5.92	-0.30	3.32	9.25
SAA3P	X_11444	0.35	5.01	0.34	4.23	9.24
S100A9	isobutyrylcarnitine	0.40	6.28	0.28	2.97	9.24
CD14	two_palmitoyl_GPC	-0.33	4.55	-0.36	4.70	9.24
GPX3	X_11538	0.38	5.65	0.31	3.59	9.24
IGFBP4	gulono_1_4_lactone	0.39	6.21	0.29	3.02	9.24
REG1A	X_12206	0.26	2.86	0.42	6.37	9.23
TF	X_12802	-0.35	4.83	-0.35	4.40	9.23
SHBG	X_05522	-0.37	5.64	-0.31	3.58	9.22
SHBG	X_12611	-0.43	7.23	-0.22	1.99	9.22
CST3	glutamylvaline	0.36	5.09	0.34	4.13	9.22
PTGDS	X_11838	0.24	2.42	0.44	6.79	9.22
CD14	N2_N2_dimethylguanosine	0.29	3.51	0.40	5.71	9.21
TIMP1	one_arachidoyl_GPE	-0.26	2.92	-0.42	6.29	9.21
LYZ	myo_inositol	0.45	8.06	0.16	1.16	9.21
C4BPA	taurochenodeoxycholate	-0.42	6.92	-0.24	2.29	9.21
SEPP1	X_10395	0.46	8.32	0.13	0.89	9.21
CFD	one_five_anhydroglucitol	-0.25	2.61	-0.43	6.60	9.20
ORM2	X_11826	0.30	3.73	0.39	5.47	9.20
CFHR2	threonate	0.34	4.76	0.35	4.44	9.20
COL3A1	alpha_hydroxyisovalerate	0.29	3.54	0.40	5.67	9.20
ORM1	X_11421	0.29	3.45	0.40	5.75	9.20
SERPINF1	X_12611	0.26	2.84	0.42	6.36	9.20
VSIG4	four_acetamidobutanoate	0.40	6.34	0.28	2.85	9.20
ECM1	mannose	-0.29	3.44	-0.40	5.74	9.19
PLG	X_10483	-0.17	1.42	-0.47	7.77	9.19
REG1A	X_03056	0.23	2.27	0.44	6.91	9.18
ORM1	X_12092	0.37	5.62	0.31	3.56	9.18
GPX3	taurocholate	0.36	5.32	0.33	3.86	9.17
IGFBP4	X_12206	0.44	7.67	0.19	1.50	9.17

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
S100A9	butyrylcarnitine	0.40	6.41	0.27	2.75	9.17
SAA4	X_12038	0.29	3.49	0.40	5.67	9.16
FABP1	alpha_hydroxyisovalerate	0.24	2.58	0.43	6.58	9.16
DEFA1	N_acetylthreonine	0.14	1.05	0.48	8.10	9.16
APOA4	X_02249	0.39	6.19	0.28	2.97	9.15
SPINK1	carnitine	-0.34	4.72	-0.35	4.44	9.15
RBMX	HPLA	0.33	4.54	0.36	4.60	9.14
AMBP	CMPF	0.34	4.70	0.35	4.43	9.14
RBP4	X_12844	0.21	2.08	0.45	7.06	9.14
APOH	methionine	-0.42	6.92	-0.24	2.21	9.13
SAA1	one_arachidoyl_GPC	-0.37	5.40	-0.32	3.73	9.13
VASN	X_12695	0.27	3.14	0.41	5.99	9.13
B2M	X_11421	0.38	5.67	0.31	3.46	9.13
VTN	X_11826	-0.25	2.73	-0.43	6.40	9.13
AZGP1	X_11850	0.37	5.56	0.31	3.57	9.13
FN1	X_01327	0.27	3.17	0.41	5.96	9.13
LYZ	X_04629	0.45	8.21	0.14	0.92	9.12
RBP4	X_12100	0.26	2.91	0.42	6.21	9.12
SAA4	X_14658	-0.36	5.10	-0.33	4.02	9.12
COL11A2	one_palmitoyl_GPC	0.33	4.31	0.37	4.80	9.11
PLEK	AMP	0.29	3.60	0.39	5.51	9.11
FCGBP	X_12611	0.20	1.92	0.45	7.19	9.11
DEFA1	one_methylimidazoleacetate	0.21	1.97	0.45	7.14	9.11
IGFBP4	indolelactate	0.29	3.59	0.39	5.51	9.11
PGLYRP2	beta_hydroxyisovalerate	-0.32	4.16	-0.37	4.95	9.10
S100A9	X_12802	0.37	5.59	0.31	3.51	9.10
CD5L	taurochenodeoxycholate	0.36	5.14	0.33	3.96	9.10
VASN	X_11334	0.31	4.01	0.38	5.09	9.10
DEFA1	decanoylcarnitine	0.39	5.95	0.29	3.14	9.10
VTN	one_methylimidazoleacetate	-0.29	3.44	-0.40	5.66	9.09
AHSG	X_12802	-0.34	4.60	-0.35	4.49	9.09
C1QB	X_14658	0.41	6.66	0.25	2.43	9.09
FGG	citrulline	-0.39	6.22	-0.28	2.87	9.09
ULK4	seven_HOCA	-0.40	6.34	-0.27	2.75	9.09
SPINK1	X_12611	0.34	4.61	0.35	4.48	9.09
CFHR2	X_06126	0.37	5.50	0.31	3.58	9.08
GPX3	X_12442	0.40	6.43	0.26	2.65	9.08
FCGBP	one_linoleoyl_GPC	-0.19	1.70	-0.46	7.36	9.07
ITIH1	one_palmitoyl_GPC	0.31	3.86	0.38	5.20	9.06
PLG	X_11538	-0.26	2.79	-0.42	6.28	9.06
ORM1	erythritol	0.34	4.70	0.35	4.36	9.06
ORM2	X_12405	0.27	3.01	0.41	6.05	9.06
RNASE1	X_11450	0.22	2.16	0.44	6.89	9.05
S100A9	beta_hydroxyisovalerate	0.37	5.56	0.31	3.48	9.05
S100A9	acetylcarnitine	0.37	5.38	0.32	3.67	9.05
S100A8	X_05522	0.39	6.14	0.28	2.91	9.05
B2M	one_methyladenosine	0.45	7.97	0.15	1.08	9.05
APOC3	X_12117	0.33	4.54	0.36	4.51	9.04
S100A9	one_arachidoyl_GPC	-0.22	2.10	-0.44	6.94	9.04
SERPINA3	X_12794	0.35	4.91	0.34	4.13	9.04
APOC1	X_11317	0.22	2.10	0.44	6.93	9.04
ABCA13	X_10395	0.07	0.39	0.49	8.64	9.04
ADIPOQ	xylonate	0.38	5.72	0.30	3.32	9.03
LCN2	arabitol	0.35	4.91	0.34	4.12	9.03
APOC3	X_11593	0.33	4.36	0.36	4.66	9.02
ORM2	X_04507	0.34	4.73	0.35	4.29	9.02

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
S100A9	X_10483	0.33	4.50	0.36	4.52	9.02
RNASE1	X_06126	0.35	5.07	0.33	3.95	9.02
RNASE1	X_07765	0.38	5.73	0.30	3.28	9.02
S100A8	X_04498	0.40	6.30	0.27	2.72	9.02
SAA1	X_11302	0.30	3.71	0.39	5.31	9.01
PON1	X_10483	-0.28	3.39	-0.40	5.63	9.01
CFD	sucrose	0.26	2.88	0.42	6.13	9.01
ICAM2	mannose	-0.30	3.77	-0.38	5.25	9.01
APOA1	one_oleoyl_GPC	0.24	2.47	0.43	6.54	9.01
SAA4	X_10510	0.33	4.39	0.36	4.62	9.01
CST3	three_cystein_S_yl_acetaminophen	0.26	2.79	0.42	6.22	9.01
VTN	hippurate	-0.29	3.51	-0.39	5.50	9.01
CLU	one_arachidoyl_GPC	0.23	2.37	0.43	6.64	9.01
APCS	X_14658	-0.41	6.61	-0.25	2.40	9.00
GPX3	X_05522	-0.36	5.20	-0.32	3.80	9.00
CFHR2	p_cresol_sulfate	0.36	5.33	0.32	3.66	9.00
ORM1	arabinose	0.33	4.50	0.35	4.49	9.00
CST3	one_arachidoyl_GPC	-0.31	3.96	-0.38	5.03	9.00
S100A8	isobutyrylcarnitine	0.38	5.82	0.29	3.17	8.99
REG1A	X_11826	0.29	3.45	0.40	5.55	8.99
LCN2	X_14658	0.34	4.76	0.34	4.23	8.99
CST3	X_14658	0.43	7.39	0.20	1.59	8.98
REG1A	X_12850	0.39	5.97	0.28	3.00	8.97
IGFBP4	X_12860	0.40	6.51	0.25	2.46	8.97
CST3	one_stearoyl_GPC	-0.28	3.21	-0.40	5.76	8.97
CD14	N_acetylneuraminate	0.26	2.90	0.41	6.07	8.96
VSIG4	X_12099	0.40	6.34	0.26	2.61	8.95
SERPINA6	one_palmitoyl_GPC	-0.38	5.72	-0.30	3.24	8.95
TF	one_oleoyl_GPC	0.33	4.46	0.35	4.49	8.95
CLU	glutamate	0.38	5.67	0.30	3.28	8.95
S100A9	X_11443	0.36	5.10	0.33	3.84	8.94
DEFA1	N6_carbamoylthreonyladenosine	0.18	1.53	0.46	7.41	8.94
GPX3	sucrose	-0.19	1.75	-0.45	7.19	8.94
TF	X_04499	-0.34	4.71	-0.34	4.22	8.93
REG1A	creatinine	0.27	3.07	0.41	5.86	8.93
S100A9	X_10395	-0.27	3.09	-0.41	5.84	8.93
ORM2	N_acetylneuraminate	0.36	5.29	0.32	3.64	8.92
AFM	creatine	-0.39	6.03	-0.28	2.89	8.92
GPX3	X_11315	0.33	4.46	0.35	4.46	8.92
CLU	one_palmitoleoyl_GPC	0.37	5.39	0.31	3.53	8.92
C1QA	methionine	0.38	5.79	0.29	3.12	8.92
VWF	hexanoylcarnitine	0.28	3.29	0.40	5.62	8.92
S100A9	urea	0.39	5.97	0.28	2.94	8.91
APCS	X_11538	-0.41	6.61	-0.24	2.30	8.91
SERPINA3	alpha_ketobutyrate	0.24	2.55	0.42	6.36	8.91
IGFBP4	myo_inositol	0.37	5.56	0.30	3.35	8.91
AMBP	X_11470	0.30	3.81	0.38	5.10	8.91
CST3	X_12458	0.44	7.73	0.16	1.18	8.91
CD14	tryptophan	-0.30	3.71	-0.38	5.20	8.91
CST3	taurocholate	0.42	6.91	0.22	1.99	8.91
CFHR2	X_04504	0.37	5.36	0.31	3.54	8.91
RBP4	X_04629	0.26	2.79	0.42	6.11	8.90
PLG	one_arachidoyl_GPC	0.15	1.21	0.47	7.69	8.90
MB	one_arachidoyl_GPC	-0.23	2.29	-0.43	6.61	8.89
APOL1	HPLA	-0.45	8.24	-0.11	0.65	8.89
LGALS3BP	X_04357	0.40	6.33	0.26	2.56	8.89

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
TIMP1	one_palmitoleoyl_GPC	-0.27	3.07	-0.41	5.82	8.89
APOC3	X_05522	0.32	4.22	0.36	4.67	8.89
GPX3	N6_carbamoylthreonyladenosine	-0.35	5.00	-0.33	3.88	8.88
PON1	SDMA	-0.32	4.08	-0.37	4.80	8.88
LYZ	one_methylimidazoleacetate	0.46	8.39	0.09	0.48	8.88
APOA4	X_11334	0.36	5.34	0.31	3.53	8.87
GC	decanoylcarnitine	-0.38	5.88	-0.28	2.99	8.87
ORM1	X_12099	0.39	5.97	0.28	2.90	8.87
LCN2	X_04498	0.35	5.04	0.33	3.83	8.87
FGB	citrulline	-0.40	6.50	-0.25	2.37	8.87
VTN	X_04504	-0.24	2.57	-0.42	6.30	8.87
FCGBP	X_11538	0.37	5.55	0.30	3.31	8.87
LUM	ornithine	0.31	3.93	0.37	4.93	8.87
FCGBP	two_methylbutyroylcarnitine	0.35	4.99	0.33	3.88	8.87
ITIH1	alpha_hydroxyisovalerate	-0.36	5.08	-0.32	3.78	8.86
ADIPOQ	citrulline	0.31	3.92	0.37	4.95	8.86
C1QB	X_11538	0.35	4.98	0.33	3.88	8.86
GPX3	gluconate	-0.44	7.65	-0.16	1.21	8.86
ORM1	one_palmitoyl_GPC	-0.37	5.61	-0.30	3.25	8.86
APOC3	pyridoxate	0.31	3.86	0.38	5.00	8.86
VASN	X_12099	0.35	4.88	0.33	3.97	8.85
LBP	two_methoxyacetaminophen_sulfate	0.24	2.46	0.43	6.39	8.85
APOE	X_08402	0.37	5.59	0.30	3.26	8.85
S100A9	X_12855	0.39	6.10	0.27	2.75	8.85
CD14	one_arachidoyl_GPE	-0.29	3.59	-0.39	5.26	8.85
APOA4	allantoin	0.38	5.85	0.28	2.99	8.84
FBLN1	X_04504	0.29	3.51	0.39	5.33	8.84
CFHR2	histidine	-0.35	4.99	-0.33	3.85	8.84
IGFBP4	X_11261	0.40	6.45	0.25	2.39	8.84
APOD	X_11317	0.34	4.64	0.34	4.19	8.83
FBLN1	X_12860	0.29	3.42	0.39	5.41	8.82
SAA1	seven_HOCA	-0.36	5.09	-0.32	3.73	8.82
TTR	X_11538	-0.38	5.79	-0.29	3.03	8.82
FCGBP	one_arachidoyl_GPC	-0.25	2.61	-0.42	6.21	8.82
SERPINA3	hexanoylcarnitine	0.35	4.90	0.33	3.92	8.81
CD14	X_12794	0.29	3.58	0.38	5.23	8.81
APOA2	hexanoylcarnitine	-0.39	6.03	-0.27	2.78	8.81
VTN	prolylhydroxyproline	-0.27	3.03	-0.40	5.78	8.81
CST3	X_11787	-0.38	5.67	-0.29	3.14	8.81
VTN	N2_N2_dimethylguanosine	-0.28	3.35	-0.39	5.46	8.81
S100A8	one_palmitoyl_GPC	-0.26	2.93	-0.41	5.88	8.81
ORM1	X_12100	0.34	4.75	0.34	4.06	8.80
GC	octanoylcarnitine	-0.34	4.61	-0.34	4.19	8.80
LCN2	X_12749	0.31	4.03	0.37	4.77	8.80
ORM1	X_11880	-0.37	5.53	-0.30	3.27	8.80
VASN	X_10359	0.30	3.79	0.38	5.01	8.80
C1QA	one_arachidoyl_GPE	-0.31	4.03	-0.37	4.77	8.80
LUM	X_11687	0.32	4.14	0.36	4.66	8.80
GPX3	X_14658	0.34	4.66	0.34	4.12	8.79
B2M	two_hydroxyacetaminophen_sulfate	0.24	2.49	0.42	6.29	8.78
PON1	one_eicosatrienoyl_GPC	0.31	4.02	0.37	4.77	8.78
LBP	glycine	-0.15	1.16	-0.46	7.62	8.78
RNASE1	X_11175	0.29	3.58	0.38	5.20	8.78
AHSG	one_five_anhydroglucitol	0.27	3.08	0.40	5.70	8.78
VSIG4	pseudouridine	0.38	5.86	0.28	2.92	8.78

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
REG1A	X_10359	0.30	3.73	0.38	5.04	8.77
RNASE1	X_11787	-0.32	4.15	-0.36	4.62	8.77
B2M	X_11450	0.25	2.63	0.42	6.15	8.77
AFM	X_11880	0.31	3.99	0.37	4.77	8.77
RBP4	X_12742	0.25	2.66	0.42	6.11	8.77
GPX3	gamma_glutamyltyrosine	0.42	6.98	0.21	1.79	8.77
CST3	acetylcarnitine	0.36	5.25	0.31	3.52	8.77
ITIH3	citrate	-0.39	5.96	-0.27	2.80	8.76
REG1A	four_vinylphenol_sulfate	0.27	3.11	0.40	5.65	8.76
PTGDS	X_06126	0.29	3.53	0.38	5.23	8.76
CFD	X_11593	0.26	2.90	0.41	5.86	8.76
REG1A	gulono_1_4_lactone	0.27	3.05	0.40	5.71	8.76
TTR	one_stearoyl_GPC	0.31	3.98	0.37	4.77	8.75
VTN	X_04499	-0.33	4.41	-0.35	4.34	8.75
LYZ	X_11429	0.44	7.80	0.14	0.95	8.75
SERPINA3	one_arachidoyl_GPC	-0.33	4.40	-0.35	4.35	8.75
DEFA1	X_11421	0.32	4.17	0.36	4.58	8.75
ITIH2	X_12458	-0.38	5.70	-0.29	3.04	8.74
RBP4	X_12092	0.25	2.69	0.41	6.05	8.74
S100A8	three_hydroxy_2_ethylpropionate	0.37	5.40	0.30	3.34	8.74
VSIG4	X_12695	0.35	4.92	0.33	3.82	8.74
CD14	gamma_glutamylphenylalanine	0.36	5.31	0.31	3.42	8.73
C1QA	X_12095	0.32	4.12	0.36	4.61	8.72
APOC3	X_11261	0.36	5.16	0.31	3.56	8.72
PLG	decanoylcarnitine	-0.27	3.12	-0.40	5.60	8.72
DEFA1	one_eicosatrienoyl_GPC	-0.16	1.32	-0.46	7.41	8.72
SERPINA3	X_11786	-0.33	4.52	-0.34	4.20	8.72
S100A8	X_12100	0.38	5.72	0.28	3.00	8.72
CLU	one_stearoyl_GPC	0.29	3.51	0.38	5.21	8.72
CST3	X_11510	0.34	4.57	0.34	4.14	8.71
CD14	X_11687	0.24	2.47	0.42	6.24	8.71
S100A8	X_12860	0.41	6.86	0.21	1.85	8.71
DEFA1	one_palmitoleoyl_GPC	-0.10	0.68	-0.48	8.03	8.71
RNASE1	catechol_sulfate	0.37	5.55	0.29	3.15	8.71
HRG	X_04499	-0.39	5.96	-0.27	2.74	8.70
CST3	three_hydroxy_2_ethylpropionate	0.39	6.00	0.27	2.70	8.70
GC	X_13553	-0.34	4.77	-0.33	3.93	8.70
S100A8	X_12099	0.43	7.34	0.18	1.36	8.70
FBLN1	erythritol	0.29	3.43	0.39	5.27	8.70
SERPINF1	X_12117	0.29	3.55	0.38	5.14	8.69
APOA2	one_palmitoyl_GPC	0.31	3.91	0.37	4.77	8.69
APOC2	one_palmitoylglycerol	0.41	6.57	0.23	2.11	8.68
C1QB	X_13553	0.42	7.19	0.19	1.48	8.68
C7	octadecanedioate	0.39	5.98	0.27	2.69	8.67
ADIPOQ	threonate	0.37	5.45	0.30	3.22	8.67
ADIPOQ	X_10359	0.37	5.47	0.29	3.20	8.67
ITIH2	X_10483	-0.36	5.14	-0.31	3.52	8.66
C1QA	X_12100	0.31	3.88	0.37	4.78	8.66
CLU	one_eicosatrienoyl_GPC	0.26	2.93	0.40	5.73	8.66
LCN2	gulono_1_4_lactone	0.34	4.68	0.33	3.97	8.66
S100A9	N_acetylalanine	0.29	3.55	0.38	5.11	8.66
REG1A	pyridoxate	0.24	2.58	0.41	6.07	8.65
TTR	one_arachidoyl_GPE	0.36	5.22	0.31	3.44	8.65
APOC3	X_12095	0.27	2.99	0.40	5.67	8.65
LUM	glycochenodeoxycholate	0.33	4.37	0.35	4.28	8.65
S100A8	four_acetamidobutanoate	0.36	5.21	0.31	3.43	8.65

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
ORM2	X_12100	0.32	4.30	0.35	4.35	8.65
LRG1	one_arachidoyl_GPC	-0.38	5.82	-0.27	2.83	8.65
DEFA1	one_arachidoyl_GPC	-0.15	1.20	-0.46	7.44	8.64
LCP1	hexanoylcarnitine	0.33	4.50	0.34	4.15	8.64
GPX3	pyridoxate	-0.36	5.09	-0.31	3.55	8.64
RBP4	X_05907	0.28	3.37	0.39	5.27	8.64
FCGBP	one_palmitoleoyl_GPC	-0.16	1.36	-0.45	7.28	8.64
REG1A	X_11490	0.32	4.06	0.36	4.57	8.63
HRG	three_hydroxy_2_ethylpropionate	-0.36	5.19	-0.31	3.44	8.63
IGFBP4	X_12611	0.42	6.92	0.20	1.71	8.63
HPR	X_01327	-0.32	4.22	-0.35	4.41	8.63
S100A8	N2_N2_dimethylguanosine	0.36	5.26	0.30	3.37	8.62
B2M	X_13619	-0.30	3.70	-0.37	4.92	8.62
PLG	one_palmitoleoyl_GPC	0.33	4.43	0.34	4.19	8.62
CST3	four_vinylphenol_sulfate	0.27	3.17	0.39	5.45	8.62
AHSG	N_acetylneuraminate	-0.35	4.85	-0.32	3.77	8.62
GPX3	p_cresol_sulfate	-0.39	5.97	-0.26	2.64	8.62
GPX3	X_12786	0.39	6.24	0.25	2.37	8.61
LYZ	gluconate	0.45	8.08	0.09	0.53	8.61
SAA3P	two_hydroxyacetaminophen_sulfate	0.23	2.31	0.42	6.30	8.61
VSIG4	X_04504	0.37	5.64	0.28	2.97	8.61
S100A8	X_03056	0.39	6.15	0.25	2.46	8.60
ORM1	SDMA	0.33	4.38	0.34	4.22	8.60
SAA3P	X_12611	0.34	4.59	0.33	4.01	8.59
AFM	glutamine	0.29	3.48	0.38	5.12	8.59
KNG1	citrulline	0.30	3.74	0.37	4.85	8.59
VTN	glycerate	-0.32	4.27	-0.35	4.32	8.59
LYZ	X_12688	0.45	7.95	0.11	0.64	8.59
ADIPOQ	citrate	0.35	4.97	0.32	3.61	8.59
DEFA1	phenylacetylglutamine	0.22	2.12	0.43	6.47	8.58
PTGDS	citrulline	0.21	2.04	0.43	6.54	8.58
GPX3	X_12217	-0.33	4.43	-0.34	4.15	8.58
ORM1	X_04629	0.34	4.80	0.32	3.79	8.58
VASN	X_04498	0.33	4.39	0.34	4.19	8.58
LCN2	X_10359	0.33	4.49	0.34	4.09	8.58
LBP	citrate	-0.36	5.29	-0.30	3.28	8.58
APOE	X_10744	0.40	6.41	0.24	2.16	8.57
PON1	X_12802	-0.30	3.63	-0.37	4.95	8.57
SERPINF1	pseudouridine	0.33	4.51	0.34	4.05	8.57
LCN2	three_indoxyl_sulfate	0.26	2.81	0.40	5.75	8.56
SERPINC1	X_11538	-0.31	3.97	-0.36	4.58	8.56
APOA2	one_stearoyl_GPC	0.26	2.97	0.40	5.59	8.56
SHBG	X_11443	-0.28	3.30	-0.39	5.26	8.56
LCN2	hexanoylcarnitine	0.32	4.23	0.35	4.33	8.56
DEFA1	X_12855	0.32	4.30	0.34	4.26	8.55
HRG	N_acetylalanine	-0.31	4.06	-0.35	4.50	8.55
ORM1	glutamine	-0.33	4.46	-0.34	4.10	8.55
APOA1	two_methylbutyroylcarnitine	-0.34	4.74	-0.32	3.82	8.55
ORM2	creatine	0.31	3.92	0.36	4.63	8.55
GPX3	X_01327	0.40	6.27	0.24	2.27	8.54
SAA1	X_11593	0.37	5.57	0.28	2.97	8.54
COL11A2	mannose	-0.25	2.76	-0.40	5.78	8.54
ICAM2	proline	0.33	4.53	0.33	4.01	8.54
CES1	N_acetylneuraminate	0.07	0.44	0.48	8.10	8.54
TTR	three_methylhistidine	0.27	3.10	0.39	5.44	8.54
C1QB	pipecolate	0.34	4.60	0.33	3.93	8.54

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
ADIPOQ	allantoin	0.36	5.12	0.31	3.41	8.54
AHSG	X_12510	0.37	5.49	0.29	3.04	8.53
TTR	octadecanedioate	-0.38	5.91	-0.26	2.62	8.53
S100A8	phenylacetylglutamine	0.30	3.78	0.37	4.75	8.53
APOH	X_11315	-0.37	5.55	-0.28	2.97	8.52
FBLN1	X_11687	0.29	3.46	0.38	5.06	8.52
ORM2	prolylhydroxyproline	0.32	4.25	0.35	4.27	8.52
VASN	one_methylimidazoleacetate	0.33	4.39	0.34	4.14	8.52
LUM	X_11334	0.33	4.35	0.34	4.17	8.52
AFM	N_acetylthreonine	-0.39	6.00	-0.26	2.52	8.52
ORM2	X_12099	0.38	5.86	0.27	2.66	8.52
RANBP2	mannose	-0.14	1.10	-0.46	7.42	8.52
LYZ	arabinose	0.44	7.77	0.12	0.74	8.51
PLG	X_11687	-0.08	0.51	-0.47	8.00	8.51
CST3	X_11175	0.35	5.03	0.31	3.48	8.50
S100A8	SDMA	0.38	5.68	0.27	2.82	8.50
B2M	citrulline	0.20	1.91	0.43	6.59	8.50
LCP1	butyrylcarnitine	0.35	5.07	0.31	3.43	8.50
PON1	one_palmitoyl_GPC	0.34	4.56	0.33	3.94	8.50
LBP	X_12802	0.36	5.12	0.30	3.38	8.50
SPINK1	erythronate	0.35	4.94	0.31	3.56	8.49
APOC3	erythronate	0.34	4.73	0.32	3.77	8.49
MB	acetylcarnitine	0.25	2.61	0.41	5.88	8.49
AZGP1	quinate	0.36	5.32	0.29	3.17	8.49
B2M	scyllo_inositol	0.36	5.28	0.30	3.21	8.49
LGALS3BP	lactate	0.40	6.46	0.23	2.03	8.49
APOB	X_12038	0.27	3.03	0.39	5.46	8.49
VTN	X_12749	-0.33	4.45	-0.33	4.04	8.48
PTGDS	tryptophan	-0.43	7.45	-0.15	1.03	8.48
GPX3	X_12844	-0.39	5.96	-0.26	2.52	8.48
ORM1	X_11826	0.30	3.81	0.36	4.67	8.48
ORM2	erythritol	0.32	4.11	0.35	4.37	8.48
AZGP1	X_04595	0.34	4.79	0.32	3.69	8.47
GC	acetylcarnitine	-0.31	3.97	-0.36	4.50	8.47
SAA3P	citrate	-0.36	5.29	-0.29	3.18	8.47
AMBP	X_08889	0.21	1.99	0.43	6.48	8.47
AFM	isobutyrylcarnitine	-0.39	6.00	-0.25	2.47	8.47
FCGBP	X_05522	0.25	2.60	0.41	5.86	8.46
APOA1	one_linoleoyl_GPC	0.27	3.12	0.39	5.33	8.45
LCN2	X_04629	0.31	3.93	0.36	4.52	8.45
REG1A	deoxycarnitine	0.31	3.91	0.36	4.54	8.45
APOC1	alpha_tocopherol	0.32	4.16	0.35	4.29	8.45
CD14	erythronate	0.28	3.24	0.38	5.20	8.45
AFM	one_eicosatrienoyl_GPC	0.34	4.78	0.32	3.66	8.44
IGFBP4	mannitol	0.41	6.63	0.21	1.81	8.44
APOE	X_12850	0.34	4.69	0.32	3.74	8.44
B2M	X_09789	0.34	4.73	0.32	3.71	8.44
VASN	arabinose	0.32	4.28	0.34	4.16	8.44
AHSG	three_hydroxy_2_ethylpropionate	-0.39	6.19	-0.24	2.24	8.43
FN1	tyrosine	0.29	3.59	0.37	4.84	8.43
ITIH1	beta_hydroxyisovalerate	-0.31	4.05	-0.35	4.38	8.43
ABCA13	mannose	-0.31	4.04	-0.35	4.39	8.43
LUM	X_12695	0.32	4.22	0.34	4.21	8.43
PGLYRP2	X_10395	0.33	4.51	0.33	3.92	8.43
DEFA1	urea	0.31	3.94	0.35	4.48	8.42
RBMX	X_11538	0.27	3.15	0.39	5.27	8.42

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
KNG1	hexanoylcarnitine	-0.33	4.50	-0.33	3.92	8.42
DEFA1	X_04499	0.30	3.63	0.37	4.78	8.41
REG1A	phenol_sulfate	0.27	3.18	0.38	5.24	8.41
GPX3	X_11444	-0.41	6.57	-0.21	1.85	8.41
CFHR2	X_12695	0.33	4.42	0.33	3.99	8.41
SERPINA6	X_12794	0.33	4.37	0.34	4.04	8.41
FCGBP	N_acetylthreonine	0.33	4.37	0.34	4.04	8.41
SPINK1	N_acetylthreonine	0.39	6.13	0.24	2.28	8.41
CFD	X_12092	0.28	3.23	0.38	5.18	8.41
CFD	X_11315	-0.28	3.34	-0.38	5.07	8.41
ACTBL2	AMP	0.38	5.87	0.26	2.53	8.41
FCGBP	octadecanedioate	0.38	5.71	0.27	2.69	8.41
HPX	pipecolate	-0.36	5.24	-0.29	3.16	8.41
RBP4	cysteine	0.21	2.06	0.42	6.34	8.41
CFD	quinate	0.32	4.26	0.34	4.14	8.40
SAA3P	X_11302	0.28	3.37	0.38	5.03	8.40
KLKB1	X_13553	-0.32	4.12	-0.35	4.29	8.40
LYZ	quinate	0.41	6.64	0.21	1.76	8.40
C1QA	deoxycarnitine	0.33	4.51	0.33	3.89	8.40
S100A8	one_stearoyl_GPC	-0.23	2.41	-0.41	5.99	8.40
SAA1	two_hydroxyacetaminophen_sulfate	0.22	2.15	0.42	6.25	8.40
LYZ	glutaroylcarnitine	0.41	6.83	0.19	1.56	8.39
CD14	X_12802	0.27	3.16	0.38	5.23	8.39
SAA3P	one_arachidoyl_GPC	-0.38	5.66	-0.27	2.73	8.39
AHSG	one_eicosatrienoyl_GPC	0.29	3.55	0.37	4.84	8.39
VSIG4	tiglyl_carnitine	0.36	5.22	0.29	3.17	8.39
ICAM2	HPLA	0.34	4.81	0.31	3.57	8.39
CES1	pipecolate	0.20	1.84	0.43	6.54	8.38
FCGBP	tryptophan	-0.30	3.75	-0.36	4.64	8.38
SPINK1	X_11826	0.30	3.69	0.36	4.69	8.38
CD14	N6_carbamoylthreonyladenosine	0.25	2.72	0.40	5.66	8.38
VASN	X_12092	0.36	5.20	0.29	3.17	8.37
CFHR2	X_04498	0.36	5.30	0.29	3.07	8.37
C1QB	X_12850	0.41	6.81	0.19	1.57	8.37
APOC3	pantothenate	0.34	4.71	0.32	3.66	8.37
SAA3P	tryptophan	-0.31	3.90	-0.35	4.47	8.37
S100A8	X_12855	0.41	6.82	0.19	1.55	8.37
APOD	alpha_tocopherol	0.32	4.24	0.34	4.13	8.37
APOC3	X_11423	0.31	3.98	0.35	4.39	8.37
C7	X_11491	0.29	3.44	0.37	4.93	8.37
APOL1	X_05907	0.43	7.30	0.15	1.07	8.37
GPX3	caffeine	0.36	5.10	0.30	3.27	8.37
REG1A	X_12611	0.32	4.10	0.34	4.26	8.37
MB	X_11538	0.10	0.67	0.47	7.69	8.36
FCGBP	X_04495	0.31	3.95	0.35	4.41	8.36
PTGDS	X_04595	0.30	3.78	0.36	4.58	8.36
APOA4	xylonate	0.34	4.60	0.32	3.76	8.36
SERPINF1	three_cystein_S_yl_acetaminophen	0.24	2.55	0.41	5.80	8.36
FBLN1	X_11593	0.28	3.34	0.38	5.02	8.36
AZGP1	indolelactate	0.43	7.39	0.14	0.96	8.35
S100A8	X_12695	0.35	4.91	0.31	3.44	8.35
APOA4	carnitine	-0.36	5.11	-0.30	3.24	8.35
LBP	X_12611	0.30	3.74	0.36	4.61	8.35
LUM	X_12860	0.30	3.68	0.36	4.67	8.35
APOH	three_indoxyl_sulfate	0.39	5.96	0.25	2.38	8.35
C8A	mannose	0.03	0.17	0.48	8.18	8.34

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
PLG	four_acetamidobutanoate	-0.10	0.64	-0.47	7.69	8.34
LCN2	tryptophan	-0.36	5.27	-0.29	3.06	8.33
SERPINA3	one_eicosatrienoyl_GPC	-0.35	5.02	-0.30	3.32	8.33
PLG	creatine	-0.31	4.05	-0.35	4.28	8.33
RNASE1	kynurenine	0.32	4.10	0.34	4.23	8.33
TF	X_12611	-0.30	3.77	-0.36	4.56	8.33
APCS	glycocholate	-0.37	5.60	-0.27	2.73	8.33
C1QB	alpha_hydroxyisovalerate	0.35	5.02	0.30	3.30	8.32
SERPINF1	X_12794	0.19	1.65	0.43	6.67	8.32
REG1A	sucrose	0.25	2.64	0.40	5.68	8.32
RBMX	seven_HOCA	0.34	4.57	0.32	3.75	8.32
S100A9	creatine	0.34	4.72	0.31	3.61	8.32
ORM2	X_01327	-0.37	5.47	-0.28	2.85	8.32
LRG1	tryptophan	-0.26	2.93	-0.39	5.39	8.32
A1BG	X_12794	-0.36	5.36	-0.28	2.96	8.32
RNASE1	X_13619	-0.25	2.63	-0.40	5.68	8.32
GPX3	X_11593	-0.40	6.27	-0.23	2.05	8.31
ORM2	X_11593	0.32	4.20	0.34	4.11	8.31
C1QA	X_12860	0.31	4.02	0.35	4.29	8.31
ORM1	one_linoleoyl_GPC	-0.35	4.86	-0.31	3.45	8.31
LCN2	X_12855	0.31	4.03	0.35	4.28	8.31
IGFBP4	SDMA	0.40	6.45	0.21	1.85	8.30
AFM	X_11421	-0.36	5.24	-0.29	3.06	8.30
GPX3	hippurate	-0.29	3.58	-0.36	4.72	8.30
CD5L	methionine	0.37	5.53	0.27	2.77	8.30
CFD	X_12802	0.19	1.74	0.43	6.55	8.30
RNASE1	one_eicosatrienoyl_GPC	-0.23	2.27	-0.41	6.02	8.29
CAT	methionine	0.29	3.51	0.37	4.78	8.29
FCGBP	one_eicosatrienoyl_GPC	-0.27	3.03	-0.38	5.25	8.28
FCGBP	one_five_anhydroglucitol	-0.27	3.07	-0.38	5.21	8.28
SAA1	DHEA_S	0.36	5.22	0.29	3.06	8.27
TTR	alpha_hydroxyisovalerate	-0.39	6.17	-0.23	2.10	8.27
AFM	one_linoleoyl_GPC	0.35	4.91	0.30	3.37	8.27
APOD	X_05907	0.34	4.64	0.32	3.63	8.27
FGA	citrulline	-0.38	5.76	-0.26	2.51	8.27
SPINK1	X_12695	0.35	4.90	0.30	3.37	8.26
PLG	pseudouridine	-0.19	1.65	-0.43	6.61	8.26
CFHR2	quinate	0.38	5.77	0.26	2.49	8.26
SERPINF1	X_11838	0.24	2.46	0.41	5.80	8.26
APOA4	threitol	0.34	4.61	0.32	3.65	8.26
APOL1	X_12802	-0.39	6.04	-0.24	2.22	8.25
ORM1	alanine	-0.16	1.31	-0.44	6.94	8.25
LBP	X_12510	-0.34	4.71	-0.31	3.54	8.25
ITIH1	X_05907	0.22	2.15	0.42	6.10	8.25
FCGBP	HPLA	0.43	7.32	0.14	0.92	8.25
C9	X_10395	-0.24	2.57	-0.40	5.67	8.25
IGFBP4	N_acetylthreonine	0.43	7.40	0.13	0.85	8.25
VWF	xanthine	0.35	4.87	0.30	3.38	8.25
LRG1	alanine	-0.19	1.65	-0.43	6.59	8.24
APOA4	X_10359	0.32	4.21	0.33	4.03	8.24
B2M	four_methyl_2_oxopentanoate	-0.34	4.60	-0.32	3.64	8.24
APCS	X_12850	-0.39	6.06	-0.24	2.17	8.23
AHSG	N_acetylalanine	-0.32	4.12	-0.34	4.11	8.23
RBP4	X_11437	0.29	3.57	0.36	4.65	8.23
PLG	one_methyladenosine	-0.23	2.40	-0.41	5.83	8.23
ORM2	N_acetylthreonine	0.39	5.97	0.24	2.26	8.22

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
LCN2	pyridoxate	0.30	3.61	0.36	4.61	8.22
F12	X_11445	-0.36	5.35	-0.28	2.87	8.22
ORM2	three_cystein_S_yl_acetaminophen	0.37	5.58	0.26	2.64	8.21
LUM	SDMA	0.30	3.61	0.36	4.60	8.21
CD14	X_12688	0.26	2.83	0.39	5.38	8.21
SEPP1	alpha_hydroxyisovalerate	-0.32	4.25	-0.33	3.96	8.21
LUM	X_12217	0.34	4.77	0.31	3.44	8.21
RBP4	X_05522	0.16	1.29	0.44	6.91	8.21
TF	mannose	-0.26	2.97	-0.38	5.23	8.20
AFM	histidine	0.31	3.87	0.35	4.33	8.20
AFM	X_10483	-0.37	5.60	-0.26	2.60	8.20
ITIH2	X_10395	0.35	4.99	0.30	3.21	8.20
VASN	X_04504	0.30	3.71	0.35	4.49	8.20
APOL1	N_acetylalanine	-0.40	6.54	-0.20	1.66	8.20
CFD	threonate	0.33	4.43	0.32	3.77	8.20
PGLYRP2	one_oleoyl_GPC	0.34	4.66	0.31	3.54	8.20
REG1A	X_04595	0.26	2.79	0.39	5.41	8.20
CAT	HPLA	0.17	1.39	0.44	6.81	8.20
AHSG	one_arachidoyl_GPC	0.29	3.48	0.36	4.71	8.19
SERPINA6	X_11786	-0.31	3.88	-0.35	4.31	8.19
S100A9	mannitol	0.27	3.06	0.38	5.13	8.19
IGFBP4	X_04629	0.40	6.28	0.22	1.91	8.19
APOA4	creatinine	0.38	5.67	0.26	2.51	8.19
VSIG4	erythronate	0.36	5.30	0.28	2.88	8.18
DEFA1	butyrylcarnitine	0.26	2.86	0.39	5.32	8.18
CFHR2	allantoin	0.37	5.62	0.26	2.56	8.18
GC	X_11538	-0.23	2.35	-0.41	5.82	8.17
CES1	ornithine	0.32	4.27	0.33	3.90	8.17
IGFBP4	X_02249	0.33	4.39	0.32	3.78	8.17
VASN	hippurate	0.29	3.51	0.36	4.66	8.17
CFHR2	sucrose	0.30	3.65	0.36	4.52	8.17
ORM2	X_04629	0.35	4.91	0.30	3.26	8.17
S100A8	acetylcarnitine	0.38	5.83	0.25	2.34	8.17
ORM1	X_01327	-0.36	5.31	-0.28	2.86	8.17
REG1A	X_12860	0.29	3.46	0.36	4.71	8.17
C1QC	methionine	0.31	3.89	0.35	4.27	8.16
CFD	prolylhydroxyproline	0.21	2.01	0.42	6.15	8.16
APOC3	erythritol	0.34	4.60	0.31	3.56	8.16
F12	epiandrosterone_sulfate	-0.33	4.39	-0.32	3.77	8.16
CFD	X_13553	0.29	3.43	0.36	4.73	8.16
DEFA1	erythronate	0.24	2.45	0.40	5.71	8.16
SPINK1	phenylacetylglutamine	0.28	3.23	0.37	4.93	8.16
BAI2	one_stearoyl_GPC	-0.26	2.95	-0.38	5.20	8.15
AZGP1	X_12794	0.32	4.25	0.33	3.91	8.15
FCGBP	four_acetamidobutanoate	0.28	3.21	0.37	4.94	8.15
PLG	X_04499	-0.23	2.28	-0.41	5.87	8.15
GPX3	X_12206	-0.34	4.80	-0.30	3.35	8.15
ORM2	mannose	0.35	5.07	0.29	3.07	8.15
LCP1	alpha_ketobutyrate	0.25	2.66	0.39	5.49	8.15
LUM	X_05426	0.37	5.63	0.26	2.51	8.14
B2M	X_11175	0.32	4.26	0.33	3.88	8.14
AZGP1	X_06126	0.35	4.92	0.30	3.22	8.14
VASN	X_05522	0.34	4.60	0.31	3.54	8.13
C1QB	X_12100	0.41	6.66	0.19	1.48	8.13
SAA4	cholesterol	0.21	1.94	0.42	6.19	8.13
CST3	X_11850	0.26	2.96	0.38	5.17	8.13

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
CES1	X_11175	0.26	2.98	0.38	5.15	8.13
VASN	tryptophan	-0.43	7.36	-0.12	0.77	8.13
FCGBP	tiglyl_carnitine	0.30	3.79	0.35	4.34	8.13
PTGDS	X_11470	0.20	1.89	0.42	6.23	8.13
FABP1	taurochenodeoxycholate	0.13	0.97	0.45	7.16	8.13
APOC3	urate	0.31	3.85	0.35	4.27	8.12
FBLN1	arabitol	0.30	3.71	0.35	4.41	8.12
REG1A	X_14658	0.35	4.88	0.30	3.24	8.12
CFHR2	SDMA	0.36	5.22	0.28	2.89	8.11
SERPINC1	one_linoleoyl_GPC	0.24	2.59	0.40	5.52	8.11
SAA1	X_11444	0.34	4.72	0.30	3.39	8.11
SPINK1	X_04504	0.40	6.41	0.20	1.69	8.11
AHSG	beta_hydroxyisovalerate	-0.34	4.71	-0.31	3.40	8.11
PON1	X_11538	-0.34	4.80	-0.30	3.31	8.11
LUM	X_04504	0.34	4.58	0.31	3.53	8.11
GPX3	arabitol	-0.33	4.32	-0.32	3.78	8.10
SERPINF1	X_04499	0.39	6.02	0.23	2.08	8.10
SERPINF1	X_11429	0.30	3.63	0.35	4.46	8.10
C1QB	one_arachidoyl_GPE	-0.31	4.00	-0.34	4.10	8.10
APOH	CMPF	0.34	4.72	0.30	3.38	8.10
PTGDS	two_hydroxyacetaminophen_sulfate	0.22	2.22	0.41	5.88	8.10
SPINK1	X_11593	0.25	2.68	0.39	5.41	8.10
LGALS3BP	tyrosine	0.35	4.98	0.29	3.11	8.09
ICAM2	glycocholate	0.32	4.08	0.33	4.02	8.09
C1QA	one_methylimidazoleacetate	0.32	4.25	0.33	3.84	8.09
PLG	X_12794	-0.13	1.00	-0.45	7.09	8.09
CFD	X_12099	0.33	4.52	0.31	3.57	8.09
AFP	pipecolate	0.38	5.78	0.24	2.30	8.08
GPX3	pseudouridine	-0.36	5.28	-0.27	2.80	8.08
ORM2	gulono_1_4_lactone	0.36	5.19	0.28	2.89	8.08
FBLN1	X_10359	0.32	4.19	0.33	3.89	8.08
FBLN1	xylonate	0.30	3.77	0.35	4.31	8.08
LUM	taurocholate	0.29	3.43	0.36	4.65	8.07
TTR	catechol_sulfate	0.31	3.87	0.34	4.20	8.07
ORM1	two_palmitoyl_GPC	-0.39	6.19	-0.22	1.88	8.07
GPX3	hexadecanedioate	0.36	5.31	0.27	2.75	8.06
FBLN1	gulono_1_4_lactone	0.30	3.62	0.35	4.44	8.06
COL3A1	pipecolate	0.26	2.86	0.38	5.20	8.06
SHBG	X_12794	-0.32	4.12	-0.33	3.93	8.06
PON1	one_arachidoyl_GPE	0.35	4.84	0.30	3.21	8.06
CRP	tryptophan	-0.34	4.63	-0.31	3.43	8.06
S100A8	X_04507	0.37	5.49	0.26	2.56	8.05
GPX3	X_12742	-0.30	3.66	-0.35	4.40	8.05
SERPIND1	X_14658	-0.37	5.62	-0.25	2.43	8.05
C1QB	glycocholate	0.41	6.73	0.17	1.32	8.05
AFM	X_05907	0.31	3.93	0.34	4.11	8.05
AZGP1	N_acetylthreonine	0.37	5.41	0.26	2.63	8.04
PON1	HPLA	-0.36	5.09	-0.28	2.94	8.04
SPINK1	X_04499	0.39	6.11	0.22	1.93	8.03
APOA1	one_arachidoyl_GPC	0.22	2.11	0.41	5.93	8.03
VWF	one_oleoyl_GPC	-0.29	3.58	-0.35	4.45	8.03
APOL1	X_13553	-0.42	7.21	-0.13	0.82	8.03
IGFBP4	X_05426	0.40	6.36	0.20	1.66	8.03
LCN2	urea	0.33	4.51	0.31	3.52	8.03
GPX3	X_11429	-0.29	3.58	-0.35	4.45	8.03
B2M	X_06126	0.34	4.75	0.30	3.28	8.03

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
VASN	X_12688	0.25	2.74	0.39	5.29	8.02
APCS	hexadecanedioate	-0.37	5.39	-0.26	2.63	8.02
SERPINF1	N_acetylalanine	0.30	3.78	0.34	4.24	8.02
APOL1	X_06346	0.37	5.40	0.26	2.62	8.02
LUM	four_acetamidobutanoate	0.31	3.97	0.34	4.05	8.02
PON1	octanoylcarnitine	-0.29	3.53	-0.35	4.49	8.02
APOA4	X_12695	0.36	5.09	0.28	2.92	8.02
DEFA1	pseudouridine	0.24	2.44	0.40	5.58	8.02
VWF	X_12644	-0.24	2.48	-0.40	5.53	8.01
REG1A	tiglyl_carnitine	0.26	2.86	0.38	5.15	8.01
CLU	one_arachidoyl_GPE	0.26	2.98	0.38	5.03	8.01
S100A9	X_11429	0.37	5.43	0.26	2.58	8.01
LUM	hippurate	0.36	5.24	0.27	2.77	8.01
AZGP1	X_13553	0.36	5.15	0.28	2.86	8.01
C1QB	X_04499	0.43	7.38	0.10	0.63	8.01
REG1A	isobutyrylcarnitine	0.26	2.93	0.38	5.07	8.00
FABP1	proline	0.30	3.63	0.35	4.37	8.00
ECM1	tyrosine	0.35	4.92	0.29	3.08	8.00
SAA3P	proline	-0.27	3.06	-0.37	4.94	8.00
SERPINC1	hexanoylcarnitine	-0.32	4.29	-0.32	3.71	8.00
SERPING1	X_12855	0.34	4.81	0.29	3.19	8.00
ORM2	X_11687	0.26	2.94	0.38	5.06	8.00
CRP	three_cystein_S_yl_acetaminophen	0.31	3.95	0.34	4.04	7.99
TF	threonine	0.18	1.63	0.42	6.36	7.99
SERPIND1	one_arachidoyl_GPE	0.41	6.72	0.17	1.27	7.99
APOC3	xylonate	0.33	4.43	0.31	3.56	7.99
VTN	X_12217	-0.28	3.37	-0.36	4.62	7.99
APOL1	X_14658	-0.44	7.84	-0.03	0.15	7.99
CST3	decanoylcarnitine	0.36	5.15	0.28	2.83	7.99
A1BG	beta_hydroxyisovalerate	-0.28	3.22	-0.37	4.77	7.99
VSIG4	three_hydroxy_2_ethylpropionate	0.37	5.43	0.26	2.56	7.99
APOC4	X_06346	0.40	6.32	0.20	1.66	7.99
GC	X_11421	-0.30	3.67	-0.35	4.31	7.98
AHSG	two_methylbutyroylcarnitine	-0.35	4.95	-0.29	3.03	7.98
ORM2	citrate	-0.38	5.93	-0.23	2.05	7.98
FGA	androsterone_sulfate	0.35	4.98	0.28	3.00	7.98
PGLYRP2	one_linoleoyl_GPC	0.33	4.54	0.31	3.44	7.98
ECM1	citrate	0.33	4.31	0.32	3.67	7.98
ADIPOQ	arabitol	0.36	5.28	0.27	2.70	7.98
S100A8	pseudouridine	0.38	5.93	0.23	2.04	7.98
COL11A2	one_palmitoleoyl_GPC	0.27	3.03	0.37	4.94	7.98
VSIG4	one_arachidoyl_GPC	-0.28	3.36	-0.36	4.61	7.97
AHSG	isobutyrylcarnitine	-0.35	4.89	-0.29	3.08	7.97
LUM	arabitol	0.32	4.20	0.32	3.77	7.97
LYZ	N_acetylalanine	0.44	7.92	0.01	0.05	7.97
VTN	X_12100	-0.28	3.22	-0.37	4.75	7.96
APOE	X_14663	0.30	3.69	0.35	4.27	7.96
C7	hexadecanedioate	0.32	4.07	0.33	3.89	7.96
LRG1	one_eicosatrienoyl_GPC	-0.36	5.32	-0.26	2.64	7.96
REG1A	indolelactate	0.24	2.45	0.39	5.51	7.96
IGFBP4	X_12217	0.36	5.22	0.27	2.74	7.96
SPINK1	X_04629	0.29	3.51	0.35	4.45	7.96
CST3	X_11521	0.28	3.39	0.36	4.57	7.95
KNG1	two_palmitoyl_GPC	0.32	4.09	0.33	3.86	7.95
C1QA	glycochenodeoxycholate	0.38	5.80	0.23	2.15	7.94
SPINK1	X_05522	0.28	3.23	0.36	4.72	7.94

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
ITIH2	tiglyl_carnitine	-0.29	3.46	-0.35	4.48	7.94
SERPINA1	mannose	0.25	2.72	0.38	5.22	7.94
HRG	one_stearoyl_GPC	0.32	4.14	0.32	3.80	7.94
PGLYRP2	two_methylbutyroylcarnitine	-0.27	3.14	-0.37	4.79	7.94
FBLN1	X_12695	0.28	3.23	0.36	4.71	7.94
HRG	X_12802	-0.36	5.25	-0.27	2.68	7.93
FN1	X_12510	0.29	3.61	0.35	4.32	7.93
REG1A	N_acetylneuraminate	0.27	3.16	0.37	4.76	7.92
APOA2	X_11538	-0.35	4.85	-0.29	3.07	7.92
CD14	one_palmitoleoyl_GPC	-0.28	3.34	-0.36	4.58	7.92
COL3A1	X_10395	-0.24	2.47	-0.39	5.45	7.92
RNASE1	CMPF	0.33	4.51	0.31	3.41	7.92
SAA4	X_05907	0.35	5.06	0.28	2.86	7.92
C7	X_10395	-0.41	6.74	-0.16	1.18	7.92
SERPINC1	taurochenodeoxycholate	-0.35	4.83	-0.29	3.09	7.92
LCN2	hydroxyisovaleroylcarnitine	0.29	3.59	0.35	4.33	7.92
APOC3	gluconate	0.37	5.38	0.26	2.53	7.91
CES1	gamma_glutamylphenylalanine	0.11	0.70	0.45	7.21	7.91
APOC3	X_03951	0.28	3.29	0.36	4.62	7.91
PLG	tryptophan	0.34	4.62	0.30	3.29	7.91
SERPINF1	X_12742	0.25	2.63	0.39	5.28	7.91
VASN	X_12104	0.37	5.39	0.26	2.52	7.91
AFM	X_12802	-0.37	5.46	-0.25	2.45	7.91
LUM	X_10359	0.30	3.75	0.34	4.16	7.91
VWF	lactate	0.37	5.45	0.25	2.46	7.91
FCGBP	erythritol	0.29	3.46	0.35	4.44	7.90
HPX	seven_HOCA	-0.27	3.14	-0.37	4.76	7.90
APOE	X_03094	0.34	4.59	0.30	3.31	7.90
ITIH2	one_palmitoyl_GPC	0.34	4.67	0.30	3.23	7.90
PLG	X_12860	-0.08	0.51	-0.46	7.39	7.90
APOD	X_03094	0.34	4.72	0.29	3.18	7.90
APOA4	X_04507	0.35	5.02	0.28	2.88	7.90
APOA2	two_methylbutyroylcarnitine	-0.38	5.65	-0.24	2.24	7.90
ORM1	X_11687	0.28	3.34	0.36	4.55	7.89
FN1	X_04357	0.15	1.22	0.43	6.67	7.89
LBP	X_11786	-0.29	3.52	-0.35	4.37	7.89
ITIH1	HPLA	-0.33	4.51	-0.30	3.38	7.89
CFH	X_12510	0.29	3.44	0.35	4.45	7.89
AHSG	two_palmitoyl_GPC	0.30	3.78	0.34	4.11	7.89
FBLN1	erythronate	0.27	3.17	0.36	4.72	7.89
AFP	tyrosine	0.38	5.67	0.24	2.22	7.88
REG1A	X_11593	0.26	2.94	0.37	4.94	7.88
PGLYRP2	N_acetylalanine	-0.28	3.35	-0.36	4.54	7.88
ORM2	X_11334	0.25	2.67	0.38	5.21	7.88
REG1A	N_acetylthreonine	0.32	4.11	0.32	3.77	7.88
RNASE1	tryptophan	-0.34	4.59	-0.30	3.28	7.87
ICAM2	betaine	0.35	5.05	0.27	2.82	7.87
CFD	X_04595	0.19	1.64	0.42	6.22	7.87
LBP	N_acetylneuraminate	0.37	5.36	0.26	2.50	7.87
GPX3	erythronate	-0.34	4.63	-0.30	3.24	7.86
IGFBP4	X_12099	0.38	5.93	0.22	1.94	7.86
RBP4	one_stearoylglycerol	0.35	4.84	0.29	3.02	7.86
CP	laurylcarnitine	0.34	4.64	0.30	3.21	7.86
LCN2	one_palmitoleoyl_GPC	-0.17	1.41	-0.43	6.45	7.86
APOC3	X_11315	-0.30	3.75	-0.34	4.10	7.86
APOC1	one_palmitoyl_GPC	0.29	3.42	0.35	4.44	7.86

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
C1QB	deoxycarnitine	0.39	6.05	0.21	1.81	7.85
LUM	phosphate	0.32	4.16	0.32	3.70	7.85
APOA4	X_10395	0.29	3.51	0.35	4.34	7.85
CPN2	X_11510	-0.34	4.71	-0.29	3.13	7.85
VASN	X_04629	0.32	4.20	0.32	3.64	7.85
SAA3P	N_acetylalanine	0.37	5.44	0.25	2.40	7.84
AZGP1	prolylhydroxyproline	0.29	3.42	0.35	4.42	7.84
AZGP1	gluconate	0.41	6.83	0.15	1.01	7.84
APOA2	acetylcarnitine	-0.34	4.62	-0.30	3.21	7.83
VASN	X_04499	0.34	4.79	0.29	3.04	7.83
PON1	X_11510	-0.26	2.79	-0.38	5.04	7.83
RBMX	hexadecanedioate	0.23	2.38	0.39	5.45	7.83
IGFBP4	X_12794	0.39	6.20	0.20	1.63	7.83
KNG1	one_linoleoyl_GPC	0.29	3.52	0.35	4.31	7.83
LCN2	three_hydroxy_2_ethylpropionate	0.30	3.63	0.34	4.20	7.83
F12	X_11440	-0.35	5.01	-0.27	2.82	7.83
CD14	four_acetamidobutanoate	0.30	3.67	0.34	4.16	7.83
C1QC	taurochenodeoxycholate	0.36	5.24	0.26	2.58	7.83
CFHR2	X_11444	0.30	3.82	0.33	4.01	7.82
TTR	piperine	0.27	3.05	0.37	4.77	7.82
C4BPB	taurochenodeoxycholate	-0.35	4.83	-0.28	3.00	7.82
COL1A1	allantoin	0.38	5.70	0.23	2.12	7.82
VSIG4	X_12688	0.29	3.59	0.34	4.22	7.81
CST3	scyllo_inositol	0.33	4.33	0.31	3.49	7.81
ACTA2	mannose	-0.22	2.10	-0.40	5.72	7.81
RBP4	arabinose	0.23	2.36	0.39	5.45	7.81
AHSG	X_10483	-0.33	4.48	-0.30	3.33	7.81
ECM1	alpha_hydroxyisovalerate	0.28	3.37	0.35	4.44	7.81
SPINK1	X_12099	0.36	5.14	0.27	2.67	7.81
HRG	butyrylcarnitine	-0.31	4.01	-0.32	3.80	7.81
S100A8	N6_carbamoylthreonyladenosine	0.34	4.65	0.29	3.16	7.81
VWF	X_12442	0.30	3.63	0.34	4.17	7.81
LUM	N2_N2_dimethylguanosine	0.31	3.93	0.33	3.88	7.80
ULK4	glycocholate	-0.42	6.92	-0.13	0.88	7.80
SPINK1	one_five_anhydroglucitol	-0.24	2.50	-0.39	5.30	7.80
CFD	X_11444	0.25	2.63	0.38	5.17	7.80
APOC4	X_03094	0.38	5.78	0.23	2.02	7.80
APOC3	X_12405	0.33	4.41	0.30	3.39	7.80
S100A8	erythronate	0.36	5.21	0.26	2.58	7.80
ITIH2	N_acetylneuraminate	-0.33	4.32	-0.31	3.47	7.79
CD14	phenylacetylglutamine	0.25	2.78	0.38	5.01	7.79
COPB1	taurochenodeoxycholate	0.29	3.59	0.34	4.20	7.79
VSIG4	X_12794	0.41	6.79	0.14	0.99	7.79
VSIG4	deoxycarnitine	0.34	4.67	0.29	3.11	7.78
APOA1	X_10500	0.32	4.28	0.31	3.51	7.78
COPB1	glycochenodeoxycholate	0.36	5.27	0.26	2.51	7.78
LRG1	tyrosine	-0.28	3.32	-0.35	4.46	7.78
APOL1	SDMA	-0.39	5.95	-0.21	1.83	7.78
KNG1	X_06346	0.34	4.61	0.29	3.17	7.78
F12	X_03056	-0.37	5.56	-0.24	2.22	7.78
ADIPOQ	pyridoxate	0.35	4.99	0.27	2.78	7.78
SPINK1	X_03056	0.28	3.28	0.35	4.49	7.78
REG1A	X_04629	0.27	3.10	0.36	4.68	7.78
F12	DHEA_S	-0.34	4.78	-0.28	2.99	7.78
ORM1	one_methyladenosine	0.30	3.73	0.34	4.05	7.77
SPINK1	X_12405	0.26	2.85	0.37	4.92	7.77

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
C7	X_04498	0.32	4.14	0.32	3.63	7.77
APOA4	X_11423	0.35	4.83	0.28	2.94	7.77
ITIH3	tryptophan	-0.28	3.27	-0.35	4.49	7.77
SERPINF1	X_12101	0.31	3.86	0.33	3.91	7.76
LYZ	X_11261	0.43	7.27	0.09	0.49	7.76
LRG1	one_arachidoyl_GPE	-0.35	4.85	-0.28	2.91	7.76
TTR	one_palmitoleoyl_GPC	0.34	4.63	0.29	3.12	7.76
ORM2	caffeine	-0.25	2.68	-0.38	5.07	7.75
CAT	aspartate	0.11	0.73	0.45	7.02	7.75
SAA1	tyrosine	-0.29	3.39	-0.35	4.36	7.75
APOA1	X_04499	-0.29	3.49	-0.34	4.26	7.75
CST3	X_10395	-0.43	7.26	-0.09	0.49	7.75
COL11A2	one_oleoyl_GPC	0.28	3.20	0.36	4.54	7.74
APOD	palmitoylcarnitine	0.35	4.84	0.28	2.90	7.74
LUM	threitol	0.33	4.31	0.31	3.43	7.74
ORM1	X_12742	0.26	2.85	0.37	4.89	7.74
APOC3	X_12100	0.29	3.41	0.35	4.33	7.74
A1BG	hydroxyisovaleroylcarnitine	-0.29	3.59	-0.34	4.15	7.74
TF	X_11786	0.16	1.28	0.43	6.46	7.74
S100A8	X_04504	0.37	5.45	0.24	2.29	7.74
LCN2	two_methylbutyroylcarnitine	0.32	4.14	0.31	3.59	7.74
SERPINA6	X_14626	0.33	4.49	0.30	3.24	7.73
ICAM2	caffeine	0.33	4.45	0.30	3.28	7.73
VWF	one_eicosatrienoyl_GPC	-0.23	2.37	-0.39	5.36	7.73
SAA3P	one_arachidoyl_GPE	-0.39	6.12	-0.20	1.61	7.73
VTN	X_11510	-0.31	4.01	-0.32	3.72	7.73
LUM	proline	0.25	2.71	0.38	5.02	7.72
SERPINA6	one_palmitoleoyl_GPC	-0.36	5.30	-0.25	2.42	7.72
AFM	prolylhydroxyproline	-0.33	4.38	-0.30	3.34	7.72
CFHR2	X_12802	0.31	3.85	0.33	3.87	7.72
PGLYRP2	N_acetylthreonine	-0.35	4.94	-0.27	2.78	7.72
FCGBP	three_cystein_S_yl_acetaminophen	0.05	0.25	0.46	7.47	7.72
SPINK1	X_11334	0.31	3.87	0.33	3.85	7.72
PLG	N6_carbamoylthreonyladenosine	-0.05	0.30	-0.46	7.42	7.71
FBLN1	threitol	0.31	3.92	0.32	3.79	7.71
VASN	X_12860	0.28	3.35	0.35	4.36	7.71
TIMP1	hexanoylcarnitine	0.24	2.54	0.38	5.16	7.71
VSIG4	one_methylimidazoleacetate	0.34	4.63	0.29	3.08	7.71
AFM	X_11445	-0.33	4.45	-0.30	3.25	7.70
TTR	HPLA	-0.40	6.49	-0.16	1.22	7.70
AHSG	urea	-0.33	4.41	-0.30	3.29	7.70
FBLN1	glutaroylcarnitine	0.32	4.18	0.31	3.52	7.70
A1BG	tiglyl_carnitine	-0.33	4.38	-0.30	3.32	7.70
SHBG	gulono_1_4_lactone	-0.36	5.28	-0.25	2.42	7.70
FCGBP	X_04498	0.35	5.03	0.27	2.67	7.70
LCP1	xanthine	0.30	3.68	0.33	4.01	7.69
LBP	N_acetylalanine	0.30	3.77	0.33	3.92	7.69
PLG	tiglyl_carnitine	-0.18	1.54	-0.42	6.15	7.69
LYZ	sucrose	0.37	5.49	0.24	2.20	7.69
APOA4	four_acetamidobutanoate	0.33	4.37	0.30	3.31	7.68
AFM	bilirubin	0.34	4.56	0.29	3.13	7.68
COPB1	myristoleate	0.23	2.42	0.39	5.26	7.68
SPINK1	X_11423	0.30	3.74	0.33	3.94	7.68
RBP4	pseudouridine	0.22	2.12	0.40	5.55	7.68
LYZ	SDMA	0.41	6.77	0.14	0.91	7.68
SHBG	gluconate	-0.39	6.04	-0.20	1.63	7.67

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
SERPINF1	p_acetamidophenylglucuronide	0.20	1.85	0.41	5.83	7.67
APOD	one_stearoylglycerol	0.39	6.03	0.20	1.64	7.67
LCP1	three_hydroxy_2_ethylpropionate	0.32	4.12	0.31	3.55	7.67
CST3	one_linoleoyl_GPC	-0.28	3.31	-0.35	4.35	7.67
LBP	four_acetaminophen_sulfate	0.24	2.56	0.38	5.10	7.66
ORM1	X_12510	-0.31	3.95	-0.32	3.71	7.66
CLU	two_palmitoyl_GPC	0.32	4.25	0.31	3.41	7.66
MB	tiglyl_carnitine	0.35	4.98	0.27	2.68	7.66
SPINK1	X_12092	0.35	5.07	0.26	2.58	7.65
APOA2	X_12802	-0.33	4.40	-0.30	3.25	7.65
ORM1	seven_HOCA	-0.34	4.71	-0.28	2.94	7.65
AHSG	X_13553	-0.35	5.03	-0.26	2.63	7.65
IGFBP4	phenol_sulfate	0.32	4.10	0.31	3.55	7.65
APOA1	X_08402	0.37	5.40	0.24	2.25	7.65
VASN	X_12101	0.25	2.65	0.38	5.00	7.65
RNASE1	gamma_glutamylleucine	0.29	3.50	0.34	4.14	7.65
APOA4	X_10266	0.37	5.57	0.23	2.08	7.65
ACTB	tyrosine	0.22	2.16	0.39	5.49	7.65
APOC3	X_12742	0.33	4.46	0.29	3.18	7.64
AFM	X_11795	0.26	2.83	0.37	4.82	7.64
VTN	gulono_1_4_lactone	-0.25	2.74	-0.37	4.90	7.64
APOA4	X_12405	0.38	5.75	0.22	1.89	7.64
ADIPOQ	X_08889	0.28	3.19	0.35	4.45	7.64
C1QB	gamma_glutamyltyrosine	0.36	5.34	0.24	2.30	7.64
GC	butyrylcarnitine	-0.31	4.00	-0.32	3.64	7.64
TIMP1	N_acetylalanine	0.20	1.78	0.41	5.86	7.64
APOA4	X_12217	0.35	4.83	0.27	2.80	7.63
RNASE1	urate	0.33	4.53	0.29	3.10	7.63
FGA	mannose	0.29	3.43	0.34	4.20	7.63
ECM1	HPLA	0.32	4.16	0.31	3.47	7.63
C1QA	taurochenodeoxycholate	0.38	5.68	0.22	1.95	7.63
APOA2	X_10500	0.27	3.04	0.36	4.59	7.63
SERPINC1	one_arachidoyl_GPC	0.25	2.71	0.37	4.91	7.63
S100A8	mannitol	0.31	4.02	0.31	3.60	7.63
SERPINF1	X_12802	0.30	3.78	0.33	3.85	7.62
FN1	threonine	0.25	2.76	0.37	4.86	7.62
APOC3	X_02249	0.23	2.35	0.39	5.27	7.62
COPB1	alpha_hydroxyisovalerate	0.35	5.00	0.26	2.62	7.62
VTN	X_10483	-0.25	2.68	-0.37	4.94	7.62
VSIG4	erythritol	0.34	4.77	0.28	2.84	7.62
SPINK1	X_12100	0.35	4.96	0.27	2.66	7.62
HRG	one_arachidoyl_GPE	0.27	3.13	0.35	4.49	7.61
AMBP	three_methyl_2_oxobutyrate	-0.30	3.81	-0.32	3.80	7.61
S100A9	X_12860	0.37	5.39	0.24	2.22	7.61
ICAM2	X_14658	0.27	3.13	0.35	4.48	7.61
SERPINA6	one_linoleoyl_GPC	-0.31	3.98	-0.32	3.63	7.61
AMBP	one_stearoylglycerol	0.34	4.69	0.28	2.92	7.61
RBP4	glycerol_3_phosphate	0.32	4.16	0.31	3.44	7.59
PTGDS	X_11175	0.33	4.32	0.30	3.27	7.59
PLG	X_11429	-0.18	1.56	-0.41	6.03	7.59
LUM	myo_inositol	0.33	4.40	0.29	3.19	7.59
APOH	taurocholate	-0.31	3.96	-0.32	3.63	7.59
APOC3	erythrose	0.34	4.63	0.28	2.96	7.59
AZGP1	CMPF	0.32	4.22	0.30	3.37	7.59
TTR	one_eicosatrienoyl_GPC	0.30	3.70	0.33	3.89	7.59
ADIPOQ	glycerate	0.29	3.50	0.34	4.09	7.59

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
SAA3P	glutamate	-0.34	4.71	-0.28	2.88	7.59
GPX3	octadecanedioate	0.36	5.14	0.25	2.45	7.59
SERPINA6	three_hydroxy_2_ethylpropionate	0.38	5.90	0.20	1.68	7.59
FGA	X_11445	0.35	4.83	0.27	2.76	7.59
SERPIND1	X_11491	-0.30	3.77	-0.32	3.81	7.58
S100A9	X_12465	0.34	4.80	0.27	2.79	7.58
TF	N_acetylalanine	-0.32	4.21	-0.30	3.37	7.58
SHBG	creatinine	-0.33	4.53	-0.29	3.05	7.58
APOA2	X_11317	0.34	4.59	0.28	3.00	7.58
LBP	uridine	-0.42	7.20	-0.07	0.39	7.58
LBP	glutamine	-0.30	3.82	-0.32	3.76	7.58
TLN1	AMP	0.37	5.46	0.23	2.11	7.58
ORM1	X_12405	0.25	2.66	0.37	4.92	7.58
RBMX	taurocholate	0.35	4.90	0.27	2.67	7.57
C1QB	one_palmitoyl_GPC	-0.33	4.37	-0.29	3.20	7.57
VASN	three_cystein_S_yl_acetaminophen	0.36	5.23	0.25	2.34	7.57
RNASE1	one_methyladenosine	0.41	6.62	0.14	0.95	7.57
VSIG4	X_12802	0.34	4.62	0.28	2.95	7.57
RBMX	X_14658	0.31	3.96	0.32	3.61	7.57
APOC3	three_indoxyl_sulfate	0.30	3.74	0.33	3.83	7.57
GC	X_10395	0.33	4.31	0.30	3.26	7.57
LGALS3BP	mannose	-0.33	4.52	-0.29	3.04	7.57
C1QB	X_12458	0.36	5.33	0.24	2.24	7.57
ORM1	X_06246	-0.21	1.94	-0.40	5.63	7.56
LYZ	X_11315	-0.42	7.02	-0.09	0.55	7.56
APOC3	X_12206	0.28	3.35	0.34	4.21	7.56
FABP1	malate	0.30	3.65	0.33	3.91	7.56
AFM	one_oleoyl_GPC	0.31	3.94	0.32	3.62	7.56
COL11A2	hexanoylcarnitine	-0.34	4.79	-0.27	2.77	7.56
C1QB	one_arachidoyl_GPC	-0.28	3.20	-0.35	4.36	7.55
ORM1	arabitol	0.31	4.01	0.31	3.53	7.55
SERPINC1	one_stearoyl_GPC	0.20	1.88	0.40	5.67	7.55
TTR	glutamate	0.31	3.88	0.32	3.67	7.55
AHSG	tiglyl_carnitine	-0.34	4.67	-0.28	2.87	7.55
ITIH2	one_stearoyl_GPC	0.31	3.84	0.32	3.71	7.54
PGLYRP2	X_10483	-0.31	3.88	-0.32	3.66	7.54
CLU	X_12644	0.17	1.38	0.42	6.17	7.54
LCP1	X_12786	0.41	6.61	0.14	0.93	7.54
AZGP1	X_10266	0.36	5.08	0.25	2.46	7.54
SERPIND1	one_arachidoyl_GPC	0.27	3.16	0.35	4.38	7.54
VTN	X_13553	-0.30	3.82	-0.32	3.71	7.53
DEFA1	erythritol	0.26	2.84	0.36	4.69	7.53
TTR	one_arachidoyl_GPC	0.27	3.06	0.35	4.47	7.53
AFM	N_acetylalanine	-0.37	5.41	-0.23	2.12	7.53
SAA1	X_06268	-0.15	1.16	-0.42	6.37	7.53
SPINK1	pyridoxate	0.27	3.12	0.35	4.40	7.53
APOH	one_palmitoyl_GPC	0.25	2.72	0.37	4.80	7.53
VWF	tyrosine	0.39	5.97	0.19	1.55	7.53
ITIH1	one_arachidoyl_GPC	0.27	3.02	0.36	4.51	7.53
GPX3	AHB	0.23	2.29	0.38	5.23	7.53
SERPINF1	pyridoxate	0.15	1.18	0.42	6.34	7.52
FBLN1	X_10266	0.29	3.54	0.33	3.99	7.52
SERPINF1	X_11261	0.30	3.82	0.32	3.70	7.52
APOC3	X_12092	0.31	3.97	0.31	3.56	7.52
AZGP1	carnitine	-0.26	2.82	-0.36	4.70	7.52
SAA3P	X_10483	0.38	5.76	0.21	1.76	7.52

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
ITIH2	X_04495	-0.31	3.88	-0.32	3.64	7.52
S100A9	deoxycarnitine	0.38	5.84	0.20	1.68	7.52
CD14	one_oleoyl_GPC	-0.24	2.48	-0.38	5.04	7.52
FGG	mannose	0.28	3.32	0.34	4.20	7.52
ORM1	piperine	-0.28	3.21	-0.35	4.31	7.52
SERPINC1	octadecanedioate	-0.29	3.44	-0.34	4.08	7.51
ORM2	arabinose	0.31	4.04	0.31	3.47	7.51
RBP4	sucrose	0.23	2.32	0.38	5.19	7.51
PON1	prolylhydroxyproline	-0.26	2.93	-0.36	4.58	7.51
VSIG4	X_04507	0.36	5.08	0.25	2.42	7.51
SAA1	X_12611	0.32	4.23	0.30	3.27	7.51
C1QA	X_04499	0.37	5.63	0.22	1.87	7.51
HPR	bilirubin	-0.27	3.15	-0.35	4.35	7.51
SERPING1	N_acetylglycine	0.25	2.63	0.37	4.87	7.50
ORM1	one_oleoyl_GPC	-0.33	4.41	-0.29	3.10	7.50
RNASE1	scyllo_inositol	0.30	3.71	0.32	3.79	7.50
APOL1	urea	-0.34	4.65	-0.28	2.85	7.50
IGFBP4	gluconate	0.38	5.68	0.21	1.82	7.50
ORM2	X_11838	0.29	3.51	0.33	3.99	7.50
SAA1	glutamate	-0.36	5.14	-0.25	2.36	7.50
HRG	X_10483	-0.33	4.40	-0.29	3.10	7.50
PRDX2	xanthine	0.31	3.96	0.31	3.54	7.50
S100A8	erythritol	0.36	5.18	0.25	2.32	7.50
DEFA1	acetylcarnitine	0.26	2.80	0.36	4.70	7.50
TF	X_10395	0.29	3.54	0.33	3.96	7.50
LCN2	X_11593	0.27	3.10	0.35	4.40	7.50
SERPINF1	N2_N2_dimethylguanosine	0.28	3.34	0.34	4.16	7.50
CST3	X_11838	0.21	1.97	0.40	5.52	7.50
AFP	methionine	0.40	6.35	0.16	1.14	7.50
SERPIND1	glycocholate	-0.35	5.07	-0.25	2.43	7.50
ITIH4	X_11795	-0.28	3.30	-0.34	4.20	7.50
ORM2	X_12749	0.23	2.34	0.38	5.16	7.49
CST3	X_11444	0.24	2.43	0.38	5.06	7.49
COL11A2	one_eicosatrienoyl_GPC	0.32	4.21	0.30	3.28	7.49
ITIH1	X_08402	0.20	1.89	0.40	5.59	7.49
B2M	three_methyl_2_oxovalerate	-0.29	3.47	-0.33	4.01	7.49
PLG	N2_N2_dimethylguanosine	-0.11	0.70	-0.44	6.79	7.48
DEFA1	SDMA	0.20	1.83	0.40	5.65	7.48
C1QB	N_acetylalanine	0.41	6.85	0.11	0.63	7.48
CAT	phenylalanine	0.13	0.99	0.43	6.49	7.48
C1QA	X_10395	-0.41	6.80	-0.11	0.67	7.47
LCN2	X_13619	-0.32	4.09	-0.30	3.38	7.47
AZGP1	catechol_sulfate	0.36	5.30	0.24	2.17	7.47
VWF	two_palmitoyl_GPC	-0.29	3.56	-0.33	3.91	7.47
APOA4	X_11452	0.35	4.84	0.26	2.63	7.47
TTR	beta_hydroxyisovalerate	-0.35	4.96	-0.26	2.51	7.47
APOC3	N6_carbamoylthreonyladenosine	0.31	3.83	0.32	3.63	7.47
RNASE1	X_11843	0.28	3.26	0.34	4.20	7.47
FGG	X_11445	0.34	4.71	0.27	2.75	7.46
APOL1	tiglyl_carnitine	-0.39	6.22	-0.17	1.24	7.46
FCGBP	glutaroylcarnitine	0.26	2.83	0.36	4.63	7.46
ITIH1	X_12644	0.22	2.20	0.39	5.26	7.46
VWF	X_12038	-0.32	4.13	-0.30	3.32	7.45
ADIPOQ	malate	0.25	2.76	0.36	4.70	7.45
ORM2	X_12742	0.25	2.62	0.37	4.83	7.45
APOL1	deoxycarnitine	-0.39	6.10	-0.18	1.35	7.45

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
PLG	X_12688	-0.08	0.46	-0.44	6.99	7.45
PLG	X_12611	-0.16	1.34	-0.42	6.10	7.45
FBLN1	X_04498	0.28	3.32	0.34	4.13	7.45
LYZ	indolelactate	0.40	6.44	0.15	1.01	7.45
CFB	X_11538	-0.27	3.02	-0.35	4.43	7.45
FCGBP	X_11687	0.25	2.76	0.36	4.68	7.45
IGFBP4	N_acetylneuraminate	0.32	4.09	0.30	3.35	7.44
SERPINF1	X_12860	0.32	4.07	0.30	3.37	7.44
FGG	androsterone_sulfate	0.34	4.59	0.28	2.85	7.44
SERPINA3	X_11273	0.34	4.60	0.28	2.84	7.44
HPR	proline	-0.25	2.72	-0.36	4.72	7.44
F12	X_14626	-0.31	3.93	-0.31	3.51	7.44
HP	malate	-0.21	1.96	-0.39	5.47	7.43
CFD	mannitol	0.33	4.38	0.29	3.06	7.43
APOA2	butyrylcarnitine	-0.32	4.17	-0.30	3.27	7.43
ITIH2	N_acetylthreonine	-0.32	4.24	-0.29	3.19	7.43
HPR	glutamine	-0.29	3.41	-0.33	4.02	7.43
ITIH3	piperine	-0.31	3.89	-0.31	3.54	7.43
FABP1	glycocholate	0.22	2.10	0.39	5.32	7.43
PGLYRP2	X_12802	-0.29	3.47	-0.33	3.96	7.42
VSIG4	X_12095	0.34	4.68	0.27	2.75	7.42
AFM	X_12104	-0.20	1.91	-0.39	5.52	7.42
LUM	X_04498	0.29	3.60	0.33	3.82	7.42
B2M	one_eicosatrienoyl_GPC	-0.23	2.36	-0.38	5.07	7.42
C4BPA	caffeine	-0.36	5.24	-0.24	2.18	7.42
LBP	X_05522	0.33	4.41	0.28	3.01	7.42
RBP4	alpha_ketoglutarate	0.33	4.43	0.28	2.99	7.42
SAA3P	X_11470	0.29	3.58	0.33	3.83	7.42
FBLN1	X_11334	0.31	3.97	0.31	3.44	7.41
SAA3P	X_12802	0.34	4.56	0.28	2.85	7.41
IGFBP4	threonate	0.39	6.00	0.18	1.41	7.41
ADIPOQ	pantothenate	0.37	5.43	0.22	1.98	7.41
APOC3	X_11444	0.27	3.17	0.34	4.24	7.41
C3	HPLA	-0.27	3.10	-0.35	4.31	7.41
ORM1	threitol	0.32	4.15	0.30	3.26	7.41
APOD	one_palmitoyl_GPC	0.35	5.01	0.25	2.40	7.41
APOH	glycochenodeoxycholate	-0.32	4.08	-0.30	3.33	7.41
F12	X_11273	-0.35	4.92	-0.26	2.49	7.41
C1QA	X_11521	0.26	2.90	0.36	4.51	7.41
AZGP1	threonine	-0.35	4.86	-0.26	2.55	7.41
CD5L	seven_HOCA	0.34	4.61	0.27	2.80	7.41
LYZ	X_12101	0.42	7.16	0.05	0.24	7.40
AHSG	X_11880	0.27	3.06	0.35	4.34	7.40
LRG1	three_cystein_S_yl_acetaminophen	0.31	3.91	0.31	3.48	7.40
RBP4	X_12688	0.27	3.11	0.35	4.28	7.40
FCGBP	one_oleoyl_GPC	-0.15	1.12	-0.42	6.28	7.40
FCGBP	cortisol	0.20	1.90	0.39	5.49	7.40
PLG	hexadecanedioate	-0.12	0.87	-0.43	6.52	7.40
ORM1	three_cystein_S_yl_acetaminophen	0.36	5.25	0.23	2.14	7.39
ITIH1	one_arachidoyl_GPE	0.34	4.56	0.28	2.84	7.39
ORM2	X_12510	-0.29	3.39	-0.33	4.00	7.39
CFHR2	X_03056	0.33	4.47	0.28	2.92	7.39
APOE	X_14658	0.31	4.04	0.30	3.35	7.39
ITIH2	X_12644	0.30	3.70	0.32	3.69	7.39
ITIH2	deoxycarnitine	-0.35	4.95	-0.25	2.44	7.39
VASN	mannitol	0.31	3.89	0.31	3.49	7.39

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
CFD	urea	0.21	2.03	0.39	5.35	7.39
VTN	phenylacetylglutamine	-0.29	3.39	-0.33	4.00	7.39
KLKB1	N_acetylalanine	-0.32	4.15	-0.30	3.23	7.39
C8G	allantoin	-0.31	3.89	-0.31	3.49	7.38
VSIG4	X_12855	0.31	3.85	0.31	3.53	7.38
CD14	X_12099	0.32	4.11	0.30	3.27	7.38
RBP4	X_11444	0.21	1.94	0.39	5.44	7.38
C1QA	N_acetylalanine	0.36	5.10	0.24	2.27	7.38
AHSG	piperine	0.28	3.28	0.34	4.10	7.38
F12	one_linoleoyl_GPC	0.35	4.98	0.25	2.40	7.38
ORM1	octanoylcarnitine	0.24	2.54	0.37	4.84	7.38
CST3	four_acetaminophen_sulfate	0.21	2.06	0.39	5.32	7.38
COL3A1	taurochenodeoxycholate	0.31	3.85	0.31	3.52	7.37
SERPINF1	tryptophan	-0.34	4.79	-0.26	2.58	7.37
VSIG4	two_methylbutyroylcarnitine	0.34	4.61	0.27	2.76	7.37
ACTA2	tyrosine	0.21	1.97	0.39	5.41	7.37
VASN	gulono_1_4_lactone	0.30	3.68	0.32	3.69	7.37
CD5L	glycochenodeoxycholate	0.33	4.39	0.28	2.98	7.37
LUM	X_14658	0.23	2.32	0.38	5.05	7.37
LCN2	creatinine	0.30	3.77	0.31	3.60	7.37
VTN	X_04629	-0.25	2.69	-0.36	4.68	7.36
RBMX	pipecolate	0.37	5.37	0.22	1.99	7.36
APOC3	X_05426	0.28	3.23	0.34	4.13	7.36
DEFA1	X_12749	0.26	2.93	0.35	4.43	7.36
DEFA1	one_methyladenosine	0.32	4.20	0.29	3.16	7.36
SERPIND1	X_10483	-0.33	4.53	-0.27	2.83	7.36
ORM1	caffeine	-0.24	2.48	-0.37	4.88	7.36
VTN	N_acetylthreonine	-0.18	1.59	-0.40	5.77	7.36
REG1A	kynurenine	0.24	2.56	0.37	4.80	7.35
SERPINA6	androsterone_sulfate	0.35	4.92	0.25	2.43	7.35
APOA4	pyridoxate	0.32	4.28	0.29	3.07	7.35
AZGP1	myo_inositol	0.35	5.01	0.25	2.34	7.35
S100A8	X_10395	-0.35	4.98	-0.25	2.37	7.35
LRG1	X_11440	0.30	3.75	0.31	3.59	7.34
LYZ	phosphate	0.37	5.47	0.22	1.88	7.34
PON1	X_11421	-0.32	4.08	-0.30	3.26	7.34
CLU	one_linoleoyl_GPC	0.27	3.02	0.35	4.32	7.34
LUM	catechol_sulfate	0.33	4.39	0.28	2.95	7.34
REG1A	X_11282	0.25	2.76	0.36	4.58	7.34
CFD	X_12844	0.26	2.96	0.35	4.38	7.34
TF	histidine	0.22	2.15	0.38	5.18	7.33
COL1A1	mannitol	0.36	5.14	0.24	2.19	7.33
F12	one_stearoyl_GPC	0.32	4.22	0.29	3.12	7.33
CD14	erythritol	0.26	2.87	0.35	4.47	7.33
CST3	three_methylhistidine	0.35	4.91	0.25	2.42	7.33
TTR	X_11452	0.25	2.73	0.36	4.60	7.33
CD14	one_methyladenosine	0.29	3.48	0.33	3.85	7.33
VSIG4	acetylcarnitine	0.30	3.72	0.32	3.61	7.33
LUM	erythronate	0.28	3.24	0.34	4.09	7.33
S100A8	X_11450	0.29	3.48	0.33	3.84	7.33
COL3A1	methionine	0.36	5.09	0.24	2.24	7.32
GPX3	X_04629	-0.36	5.20	-0.23	2.12	7.32
PLG	erythronate	-0.11	0.75	-0.43	6.58	7.32
SEPP1	taurocholate	-0.33	4.54	-0.27	2.78	7.32
LCP1	one_linoleoyl_GPC	-0.23	2.26	-0.38	5.06	7.32
COL11A2	X_05907	0.38	5.69	0.20	1.63	7.32

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
LCN2	acetylcarnitine	0.31	3.86	0.31	3.46	7.32
F12	citrate	0.28	3.24	0.34	4.08	7.32
KNG1	one_arachidoyl_GPE	0.29	3.40	0.33	3.91	7.31
AMBP	X_11510	0.31	3.92	0.30	3.40	7.31
MB	X_12860	0.33	4.34	0.28	2.97	7.31
VSIG4	N6_carbamoylthreonyladenosine	0.34	4.77	0.26	2.54	7.31
VTN	creatinine	-0.28	3.31	-0.33	4.00	7.31
REG1A	X_13619	-0.28	3.28	-0.33	4.03	7.31
ORM2	one_stearoyl_GPC	-0.34	4.60	-0.27	2.70	7.31
PGLYRP2	two_palmitoyl_GPC	0.31	3.87	0.31	3.44	7.31
C1QC	one_arachidoyl_GPC	-0.22	2.22	-0.38	5.08	7.31
CFHR2	phenol_sulfate	0.37	5.46	0.21	1.84	7.30
FABP1	seven_HOCA	0.11	0.77	0.43	6.53	7.30
KLKB1	SDMA	-0.34	4.57	-0.27	2.74	7.30
ORM2	threitol	0.31	3.91	0.30	3.39	7.30
FCGBP	erythronate	0.27	2.98	0.35	4.32	7.30
APOA4	three_indoxyl_sulfate	0.35	4.94	0.25	2.36	7.30
APOA4	X_04504	0.34	4.59	0.27	2.71	7.30
VSIG4	X_12100	0.37	5.62	0.20	1.67	7.30
ORM1	X_12749	0.22	2.09	0.38	5.21	7.30
PGLYRP2	X_12458	-0.33	4.35	-0.28	2.94	7.29
F12	one_oleoyl_GPC	0.35	4.95	0.25	2.34	7.29
KLKB1	X_04499	-0.38	5.75	-0.19	1.54	7.29
SPINK1	erythritol	0.33	4.45	0.28	2.85	7.29
PLG	X_11491	-0.15	1.19	-0.42	6.10	7.29
SAA3P	glycine	-0.14	1.10	-0.42	6.19	7.29
ORM1	gulono_1_4_lactone	0.35	4.95	0.25	2.34	7.29
VWF	glycocholate	0.29	3.56	0.32	3.72	7.28
PON1	one_methylimidazoleacetate	-0.26	2.89	-0.35	4.40	7.28
ORM2	X_11880	-0.35	4.91	-0.25	2.37	7.28
TTR	hexanoylcarnitine	-0.36	5.16	-0.23	2.12	7.28
PTGDS	X_11450	0.26	2.94	0.35	4.34	7.28
KNG1	one_oleoyl_GPC	0.26	2.81	0.35	4.47	7.28
HPR	alpha_ketoglutarate	-0.28	3.26	-0.33	4.02	7.28
F2	gluconate	-0.38	5.71	-0.19	1.57	7.27
SAA1	X_11838	0.19	1.70	0.40	5.57	7.27
AFM	X_01327	0.33	4.52	0.27	2.75	7.27
LRG1	seven_HOCA	-0.31	4.02	-0.30	3.25	7.27
SERPING1	X_14588	0.30	3.81	0.31	3.46	7.27
C7	X_04357	0.35	5.03	0.24	2.24	7.27
B2M	urate	0.37	5.56	0.20	1.71	7.27
RNASE1	two_hydroxyacetaminophen_sulfate	0.24	2.44	0.37	4.83	7.27
GPX3	pipecolate	0.37	5.36	0.22	1.91	7.27
A1BG	X_12101	-0.31	4.02	-0.30	3.24	7.26
CD14	carnitine	-0.25	2.70	-0.36	4.57	7.26
ADIPOQ	X_11334	0.37	5.40	0.22	1.87	7.26
C4BPA	glycochenodeoxycholate	-0.34	4.74	-0.26	2.52	7.26
SERPINA6	tiglyl_carnitine	0.34	4.60	0.27	2.66	7.26
APOC3	X_04629	0.33	4.41	0.28	2.85	7.26
PON1	decanoylcarnitine	-0.31	3.88	-0.30	3.38	7.26
F12	one_palmitoyl_GPC	0.36	5.08	0.24	2.18	7.26
PLG	erythritol	-0.15	1.17	-0.42	6.09	7.26
PON1	X_03056	-0.28	3.29	-0.33	3.97	7.26
AFM	three_hydroxy_2_ethylpropionate	-0.40	6.50	-0.12	0.75	7.26
PLG	X_12101	-0.05	0.29	-0.44	6.96	7.26
LUM	betaine	0.26	2.83	0.35	4.42	7.25

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
VTN	N_acetylalanine	-0.27	3.11	-0.34	4.14	7.25
SAA1	X_13429	0.25	2.73	0.36	4.52	7.25
AHSG	hydroxyisovaleroylcarnitine	-0.30	3.77	-0.31	3.48	7.25
LCN2	X_03056	0.27	2.98	0.35	4.27	7.25
LUM	mannitol	0.29	3.42	0.33	3.83	7.25
FCGBP	X_12860	0.26	2.81	0.35	4.44	7.25
LYZ	X_05522	0.40	6.48	0.12	0.77	7.25
FGA	X_11786	-0.32	4.30	-0.28	2.95	7.25
SERPINA1	creatine	0.31	4.01	0.30	3.23	7.25
S100A8	X_11687	0.33	4.45	0.27	2.80	7.25
HPX	allantoin	-0.30	3.81	-0.31	3.44	7.24
FCGBP	one_arachidoyl_GPE	-0.27	3.07	-0.34	4.17	7.24
VSIG4	allantoin	0.31	3.83	0.31	3.41	7.24
SPINK1	hippurate	0.34	4.59	0.26	2.65	7.24
FBLN1	X_13553	0.28	3.38	0.33	3.86	7.24
CFHR2	X_10266	0.29	3.57	0.32	3.66	7.24
SERPINC1	one_oleoyl_GPC	0.18	1.54	0.40	5.70	7.24
APOL1	X_12855	-0.36	5.27	-0.22	1.97	7.24
HRG	N_acetylthreonine	-0.31	3.90	-0.30	3.33	7.24
AFM	two_methylbutyroylcarnitine	-0.38	5.70	-0.19	1.54	7.23
VTN	four_acetamidobutanoate	-0.23	2.25	-0.37	4.98	7.23
C1QB	X_12688	0.36	5.09	0.23	2.14	7.23
SHBG	mannose	-0.36	5.30	-0.22	1.93	7.23
KLKB1	X_12458	-0.38	5.85	-0.18	1.38	7.23
C1QA	allantoin	0.35	4.92	0.24	2.31	7.23
LUM	X_12742	0.32	4.09	0.29	3.14	7.22
ITIH3	X_10395	-0.40	6.40	-0.13	0.82	7.22
ITIH2	X_13553	-0.27	3.13	-0.34	4.09	7.22
LCN2	beta_hydroxyisovalerate	0.34	4.68	0.26	2.54	7.22
SPINK1	three_cystein_S_yl_acetaminophen	0.22	2.09	0.38	5.13	7.21
ICAM2	X_12850	0.25	2.65	0.36	4.56	7.21
LBP	threonine	-0.27	3.13	-0.34	4.08	7.21
SERPINA3	one_oleoyl_GPE	-0.23	2.28	-0.37	4.93	7.21
S100A9	X_03056	0.33	4.40	0.27	2.81	7.21
A1BG	X_11450	-0.30	3.65	-0.31	3.56	7.21
SERPINA6	three_cystein_S_yl_acetaminophen	0.31	4.03	0.29	3.18	7.21
SERPINF1	X_03951	0.26	2.93	0.35	4.28	7.20
SPINK1	five_oxoproline	0.41	6.76	0.08	0.44	7.20
C1QC	one_arachidoyl_GPE	-0.20	1.84	-0.39	5.36	7.20
VSIG4	X_12860	0.29	3.59	0.31	3.61	7.19
LUM	X_12688	0.28	3.25	0.33	3.94	7.19
VTN	X_11593	-0.26	2.95	-0.34	4.24	7.19
CFD	p_cresol_sulfate	0.28	3.38	0.32	3.81	7.19
APOA4	arabitol	0.33	4.41	0.27	2.78	7.19
LUM	X_04507	0.32	4.14	0.29	3.04	7.19
RNASE1	X_11443	0.23	2.36	0.37	4.83	7.19
VSIG4	alpha_hydroxyisovalerate	0.14	1.02	0.42	6.17	7.19
LCN2	one_oleoyl_GPE	-0.16	1.29	-0.41	5.89	7.18
FCGBP	N2_N2_dimethylguanosine	0.23	2.42	0.37	4.77	7.18
F12	X_11795	0.26	2.80	0.35	4.38	7.18
IGFBP4	urea	0.37	5.46	0.20	1.72	7.18
VSIG4	octanoylcarnitine	0.30	3.73	0.31	3.44	7.17
SAA3P	X_11838	0.20	1.88	0.39	5.30	7.17
C4BPA	biliverdin	-0.29	3.54	-0.32	3.63	7.17
LYZ	carnitine	-0.39	5.96	-0.16	1.21	7.17
FCGBP	acetylcarnitine	0.33	4.45	0.27	2.71	7.17

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
TTR	X_02249	0.34	4.76	0.25	2.41	7.17
SERPINF1	erythritol	0.31	3.83	0.30	3.33	7.17
CD14	four_acetaminophen_sulfate	0.25	2.77	0.35	4.40	7.16
MB	N_acetylneuraminate	0.25	2.71	0.35	4.46	7.16
APOH	creatinine	0.33	4.43	0.27	2.73	7.16
CFHR2	glutamylvaline	0.31	3.87	0.30	3.29	7.16
CD14	xylonate	0.25	2.70	0.35	4.46	7.16
APOH	X_11470	0.34	4.60	0.26	2.56	7.16
KNG1	X_11786	0.20	1.91	0.38	5.24	7.15
TF	X_11452	0.11	0.79	0.42	6.37	7.15
CD14	X_12742	0.22	2.24	0.37	4.91	7.15
VTN	three_indoxyl_sulfate	-0.25	2.78	-0.35	4.37	7.15
VASN	X_05426	0.31	3.86	0.30	3.28	7.15
TIMP1	X_14658	0.35	4.82	0.25	2.32	7.14
IGFBP4	p_cresol_sulfate	0.34	4.66	0.26	2.49	7.14
CFD	X_11437	0.33	4.36	0.27	2.79	7.14
KNG1	one_palmitoleoyl_GPC	0.31	4.02	0.29	3.12	7.14
AFM	X_11273	-0.32	4.17	-0.28	2.97	7.14
FN1	malate	0.19	1.66	0.39	5.48	7.14
SAA4	one_palmitoylglycerol	0.35	4.88	0.24	2.26	7.14
SERPINA3	X_14626	0.33	4.46	0.27	2.68	7.14
CST3	X_10439	0.38	5.67	0.18	1.46	7.13
FABP1	HPLA	0.23	2.31	0.37	4.82	7.13
HRG	beta_hydroxyisovalerate	-0.34	4.66	-0.25	2.47	7.13
CD14	N_acetylthreonine	0.33	4.47	0.27	2.66	7.13
ORM2	one_palmitoleoyl_GPC	-0.34	4.75	-0.25	2.38	7.13
VSIG4	X_12101	0.33	4.38	0.27	2.75	7.13
SERPINA6	X_11445	0.30	3.79	0.30	3.34	7.13
APOL1	X_12860	-0.36	5.08	-0.23	2.04	7.13
CD14	SDMA	0.19	1.65	0.39	5.48	7.12
IGFBP4	X_03056	0.38	5.92	0.16	1.20	7.12
LUM	N_acetylalanine	0.24	2.50	0.36	4.62	7.12
APOH	pyridoxate	0.33	4.53	0.26	2.59	7.12
SERPINA1	X_09789	-0.30	3.65	-0.31	3.47	7.12
FN1	citrate	0.25	2.76	0.35	4.37	7.12
SAA3P	DHEA_S	0.34	4.78	0.25	2.33	7.12
S100A9	pelargonate	-0.35	4.85	-0.24	2.26	7.12
DEFA1	X_11429	0.20	1.90	0.38	5.22	7.11
CST3	phenylalanine	0.39	6.23	0.13	0.89	7.11
A1BG	X_11244	-0.31	4.04	-0.29	3.07	7.11
F12	two_palmitoyl_GPC	0.31	4.01	0.29	3.10	7.11
LCN2	octanoylcarnitine	0.30	3.77	0.30	3.35	7.11
FN1	bilirubin	0.23	2.27	0.37	4.84	7.11
ORM2	SDMA	0.28	3.37	0.32	3.74	7.11
AHSG	butyrylcarnitine	-0.35	4.90	-0.24	2.21	7.11
RBP4	X_08889	0.27	3.10	0.33	4.01	7.11
TF	X_10483	-0.33	4.36	-0.27	2.74	7.11
C6	four_acetamidobutanoate	-0.29	3.52	-0.31	3.59	7.11
SERPINF1	X_05522	0.27	2.99	0.34	4.11	7.11
C1QA	seven_HOCA	0.30	3.80	0.30	3.31	7.10
CD5L	tyrosine	0.36	5.29	0.21	1.81	7.10
KLKB1	one_arachidoyl_GPE	0.39	6.06	0.15	1.04	7.10
SERPINF1	N6_carbamoylthreonyladenosine	0.25	2.75	0.35	4.35	7.10
VTN	sucrose	-0.22	2.21	-0.37	4.89	7.10
HRG	X_13553	-0.34	4.67	-0.25	2.43	7.10
CST3	hydroxyisovaleroylcarnitine	0.30	3.77	0.30	3.33	7.10

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
VASN	X_12095	0.25	2.74	0.35	4.35	7.10
S100A8	X_03951	0.38	5.83	0.17	1.27	7.10
AMBP	X_11255	-0.24	2.50	-0.36	4.60	7.10
VASN	X_13553	0.23	2.28	0.37	4.81	7.10
ITIH2	HPLA	-0.33	4.51	-0.26	2.59	7.10
TF	X_06246	0.18	1.52	0.40	5.57	7.10
F12	X_11245	-0.37	5.49	-0.20	1.60	7.10
CST3	X_06126	0.26	2.85	0.34	4.24	7.10
SERPINA1	one_palmitoyl_GPC	-0.27	3.07	-0.33	4.03	7.10
CRP	one_eicosatrienoyl_GPC	-0.33	4.36	-0.27	2.73	7.09
APOC2	X_11317	0.16	1.29	0.41	5.80	7.09
APOC3	four_acetamidobutanoate	0.27	3.07	0.33	4.01	7.09
C1QB	allantoin	0.39	6.22	0.13	0.86	7.09
COL1A1	SDMA	0.33	4.37	0.27	2.71	7.08
C1QA	one_eicosatrienoyl_GPC	-0.31	3.94	-0.29	3.15	7.08
ADIPOQ	X_11687	0.35	5.07	0.22	2.01	7.08
APOL1	X_10500	0.33	4.53	0.26	2.55	7.08
SERPINA3	X_03094	-0.40	6.29	-0.12	0.79	7.08
LBP	phenylalanine	0.33	4.45	0.26	2.63	7.08
FABP1	mannose	-0.17	1.43	-0.40	5.64	7.08
COPB1	hexadecanedioate	0.23	2.32	0.37	4.76	7.08
SPINK1	one_palmitoyl_GPC	-0.22	2.09	-0.37	4.99	7.08
ECM1	X_12510	0.21	2.01	0.38	5.07	7.08
PIGR	X_11795	0.26	2.91	0.34	4.17	7.08
LCN2	taurochenodeoxycholate	0.31	3.87	0.30	3.21	7.08
APOH	phenylalanine	-0.26	2.87	-0.34	4.21	7.07
VTN	phosphate	-0.24	2.50	-0.36	4.57	7.07
CFD	X_07765	0.39	6.05	0.15	1.02	7.07
APOL1	N_acetylthreonine	-0.38	5.78	-0.17	1.28	7.07
SERPIND1	octadecanedioate	-0.31	3.85	-0.30	3.21	7.07
HP	X_01327	-0.27	3.17	-0.33	3.89	7.07
VWF	gamma_glutamylphenylalanine	0.37	5.48	0.19	1.59	7.07
ORM1	X_11334	0.25	2.62	0.35	4.45	7.07
APOA2	X_12855	-0.35	4.93	-0.23	2.14	7.06
LCN2	gamma_glutamylphenylalanine	0.27	3.16	0.33	3.90	7.06
APOA4	X_07765	0.32	4.23	0.28	2.83	7.06
GPX3	three_methylhistidine	-0.20	1.84	-0.38	5.21	7.06
A1BG	isobutyrylcarnitine	-0.33	4.46	-0.26	2.60	7.06
A1BG	X_10483	-0.34	4.62	-0.25	2.44	7.06
LYZ	alpha_ketoglutarate	0.30	3.67	0.30	3.38	7.06
CST3	X_13619	-0.28	3.32	-0.32	3.74	7.06
PGLYRP2	prolylhydroxyproline	-0.31	3.88	-0.29	3.18	7.06
SERPINA6	one_oleoyl_GPC	-0.32	4.14	-0.28	2.91	7.05
CFHR2	mannitol	0.37	5.50	0.19	1.55	7.05
CFI	HPLA	-0.37	5.39	-0.20	1.66	7.05
ECM1	methionine	0.26	2.90	0.34	4.16	7.05
SAA3P	X_04629	0.35	4.97	0.23	2.09	7.05
APOA2	octanoylcarnitine	-0.34	4.78	-0.24	2.27	7.05
RBP4	X_11315	-0.25	2.65	-0.35	4.40	7.05
APOH	p_cresol_sulfate	0.35	5.06	0.22	1.99	7.05
SHBG	X_12104	-0.28	3.33	-0.32	3.72	7.05
AZGP1	xylose	0.27	3.00	0.34	4.05	7.05
HBD	aspartate	0.08	0.51	0.43	6.54	7.05
APOH	catechol_sulfate	0.35	5.04	0.22	2.00	7.05
RNASE1	X_10439	0.37	5.41	0.20	1.64	7.05
CES1	stearidonate	0.24	2.53	0.36	4.51	7.05

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
LCN2	X_10395	-0.33	4.31	-0.27	2.73	7.04
AZGP1	phosphate	0.34	4.76	0.24	2.29	7.04
APCS	palmitoleate	-0.32	4.17	-0.28	2.87	7.04
RBP4	X_11261	0.22	2.24	0.37	4.80	7.04
AZGP1	three_methylhistidine	0.35	4.87	0.24	2.17	7.04
SAA3P	seven_HOCA	-0.29	3.50	-0.31	3.54	7.04
PLG	one_linoleoyl_GPC	0.22	2.10	0.37	4.94	7.04
ORM2	three_indoxyl_sulfate	0.21	1.97	0.38	5.07	7.04
GC	HPLA	-0.27	3.07	-0.33	3.97	7.04
S100A9	one_arachidoyl_GPE	-0.21	1.95	-0.38	5.08	7.04
SAA3P	X_04495	0.38	5.69	0.18	1.35	7.04
VSIG4	X_12117	0.37	5.58	0.18	1.45	7.03
AMBP	X_12855	0.36	5.33	0.20	1.70	7.03
AHSG	X_11273	-0.27	3.13	-0.33	3.90	7.03
APOC3	X_11437	0.18	1.62	0.39	5.40	7.03
GPX3	two_hydroxypalmitate	0.34	4.73	0.24	2.30	7.03
REG1A	X_12749	0.24	2.47	0.36	4.55	7.03
FCGBP	pseudouridine	0.27	3.15	0.33	3.87	7.02
DEFA1	one_oleoyl_GPE	-0.18	1.60	-0.39	5.42	7.02
S100A8	one_methylimidazoleacetate	0.30	3.76	0.30	3.27	7.02
VWF	X_12458	0.16	1.34	0.40	5.68	7.02
VASN	X_14658	0.31	3.88	0.29	3.14	7.02
ORM2	pyridoxate	0.25	2.64	0.35	4.38	7.02
APOC3	X_10266	0.35	4.90	0.23	2.12	7.02
AFM	X_11429	-0.34	4.57	-0.25	2.44	7.02
LGALS3BP	caffeine	0.32	4.26	0.27	2.76	7.02
SERPIND1	malate	-0.23	2.38	-0.36	4.63	7.02
GPX3	X_07765	-0.28	3.32	-0.32	3.70	7.01
LYZ	X_07765	0.35	4.86	0.23	2.15	7.01
COL11A2	alpha_ketoglutarate	0.32	4.24	0.27	2.77	7.01
ACTA2	X_04357	0.19	1.77	0.38	5.24	7.01
COPB1	octadecanedioate	0.22	2.13	0.37	4.88	7.01
VASN	pyridoxate	0.27	3.04	0.33	3.97	7.01
APOA2	X_08402	0.33	4.31	0.27	2.69	7.01
CRP	X_12802	0.34	4.59	0.25	2.42	7.01
TF	prolylhydroxyproline	-0.30	3.62	-0.30	3.38	7.00
TIMP1	one_oleoyl_GPE	-0.17	1.44	-0.40	5.56	7.00
KLKB1	X_03056	-0.37	5.45	-0.19	1.55	7.00
CFD	pantothenate	0.30	3.68	0.30	3.32	7.00
S100A9	two_palmitoyl_GPC	-0.14	1.10	-0.41	5.90	7.00
LYZ	citrulline	0.26	2.92	0.34	4.08	7.00
IGFBP4	X_11593	0.37	5.62	0.18	1.38	7.00
ORM1	xylonate	0.30	3.68	0.30	3.32	7.00
SHBG	X_04629	-0.35	5.06	-0.22	1.94	7.00
HRG	two_palmitoyl_GPC	0.26	2.98	0.33	4.02	6.99
COL1A1	hippurate	0.36	5.21	0.21	1.78	6.99
S100A9	X_04498	0.31	3.89	0.29	3.11	6.99
ADIPOQ	X_04507	0.32	4.22	0.27	2.77	6.99
AHSG	X_12611	-0.26	2.84	-0.34	4.16	6.99
PIGR	X_03056	-0.41	6.57	-0.08	0.41	6.99
KNG1	one_arachidoyl_GPC	0.27	3.12	0.33	3.87	6.99
VWF	betaine	0.34	4.72	0.24	2.27	6.99
GSN	catechol_sulfate	0.21	2.03	0.37	4.96	6.99
RNASE1	hexanoylcarnitine	0.16	1.29	0.40	5.69	6.99
SERPINC1	one_palmitoleoyl_GPC	0.25	2.68	0.35	4.30	6.99
VASN	X_11826	0.28	3.24	0.32	3.74	6.98

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
S100A9	X_04495	0.33	4.45	0.26	2.53	6.98
TTR	two_palmitoyl_GPC	0.29	3.56	0.31	3.42	6.98
VSIG4	hexanoylcarnitine	0.32	4.07	0.28	2.91	6.98
APOH	HPLA	-0.31	3.88	-0.29	3.10	6.98
SPINK1	X_11838	0.20	1.86	0.38	5.12	6.98
C1QA	one_arachidoyl_GPC	-0.30	3.70	-0.30	3.27	6.97
CST3	X_12844	0.19	1.71	0.39	5.26	6.97
AFM	X_11452	0.30	3.70	0.30	3.27	6.97
C8G	SDMA	-0.27	3.05	-0.33	3.92	6.97
ORM1	X_04498	0.32	4.17	0.27	2.80	6.97
LYZ	X_04498	0.41	6.65	0.06	0.32	6.96
ITIH2	one_arachidoyl_GPC	0.29	3.45	0.31	3.52	6.96
SERPINF1	erythronate	0.28	3.25	0.32	3.72	6.96
LCN2	X_11510	0.30	3.76	0.30	3.21	6.96
SERPIND1	seven_HOCA	-0.28	3.34	-0.32	3.63	6.96
ORM2	arabitol	0.29	3.51	0.31	3.45	6.96
HBA1	aspartate	0.07	0.39	0.43	6.57	6.96
DEFA1	cortisol	0.19	1.67	0.39	5.29	6.96
CFI	X_14658	-0.33	4.51	-0.25	2.45	6.96
APOH	X_09789	0.30	3.73	0.30	3.23	6.96
ITIH3	X_11452	-0.36	5.10	-0.21	1.85	6.96
ITIH1	one_stearoyl_GPC	0.24	2.52	0.35	4.44	6.96
CD14	X_12695	0.27	3.13	0.33	3.82	6.96
VSIG4	X_10395	-0.20	1.90	-0.38	5.05	6.95
FCGBP	X_12855	0.31	3.99	0.28	2.96	6.95
LYZ	four_vinylphenol_sulfate	0.34	4.65	0.24	2.30	6.95
FBLN1	N_acetylalanine	0.23	2.41	0.36	4.54	6.95
SAA3P	N_acetylthreonine	0.41	6.82	0.03	0.13	6.95
APOC3	X_12611	0.31	3.91	0.29	3.03	6.95
C1QB	X_12095	0.39	6.13	0.13	0.81	6.94
KNG1	X_07765	0.33	4.37	0.26	2.57	6.94
LUM	hydroxyproline	0.23	2.38	0.36	4.55	6.94
ADIPOQ	X_12217	0.32	4.28	0.27	2.66	6.94
RNASE1	pelargonate	-0.23	2.31	-0.36	4.62	6.94
PLG	X_12458	-0.24	2.58	-0.35	4.35	6.93
APOA1	tiglyl_carnitine	-0.26	2.91	-0.33	4.02	6.93
GPX3	X_11437	-0.30	3.78	-0.29	3.16	6.93
LRG1	X_06246	-0.21	2.00	-0.37	4.94	6.93
ADIPOQ	phosphate	0.36	5.15	0.21	1.78	6.93
DEFA1	two_palmitoyl_GPC	-0.07	0.38	-0.43	6.55	6.93
AMBP	X_11175	0.29	3.58	0.30	3.35	6.93
A1BG	X_12100	-0.34	4.57	-0.25	2.36	6.93
GPX3	X_12749	-0.27	3.17	-0.32	3.76	6.93
VSIG4	arabitol	0.34	4.56	0.25	2.36	6.93
PGLYRP2	N6_carbamoylthreonyladenosine	-0.25	2.72	-0.34	4.21	6.93
DEFA1	X_12099	0.25	2.67	0.34	4.25	6.92
SPINK1	one_stearoyl_GPC	-0.13	0.90	-0.41	6.02	6.92
APOH	X_10359	0.33	4.52	0.25	2.40	6.92
ORM1	X_13553	0.24	2.50	0.35	4.42	6.92
VASN	X_12749	0.29	3.59	0.30	3.33	6.92
C1QA	X_12458	0.34	4.61	0.24	2.31	6.92
APOL1	taurochenodeoxycholate	-0.41	6.82	-0.02	0.10	6.91
LYZ	X_05907	0.24	2.54	0.35	4.37	6.91
APOC3	phenylacetylglutamine	0.30	3.66	0.30	3.25	6.91
SPINK1	X_04507	0.34	4.77	0.23	2.14	6.91
TF	one_methylimidazoleacetate	-0.25	2.77	-0.34	4.14	6.91

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
COL1A1	X_12688	0.36	5.09	0.21	1.82	6.91
A2M	X_12510	0.23	2.33	0.36	4.58	6.91
AFM	X_12611	-0.33	4.44	-0.25	2.47	6.91
GPX3	X_12092	-0.33	4.51	-0.25	2.39	6.91
LCP1	X_04357	0.40	6.44	0.08	0.47	6.91
COL3A1	gamma_glutamyltyrosine	0.40	6.35	0.10	0.56	6.91
CES1	lactate	0.34	4.57	0.25	2.34	6.91
TF	tyrosine	0.15	1.22	0.40	5.68	6.91
TF	pseudouridine	-0.32	4.13	-0.27	2.77	6.90
SERPINF1	X_12855	0.35	5.01	0.22	1.89	6.90
RNASE1	X_11521	0.21	1.97	0.37	4.92	6.90
FBLN1	N2_N2_dimethylguanosine	0.26	2.97	0.33	3.93	6.90
ULK4	malate	-0.28	3.31	-0.31	3.58	6.90
S100A9	one_palmitoleoyl_GPC	-0.22	2.24	-0.36	4.65	6.90
SERPINA3	X_11245	0.28	3.37	0.31	3.53	6.90
FN1	alpha_hydroxyisovalerate	0.02	0.11	0.44	6.78	6.89
AMBP	three_methyl_2_oxovalerate	-0.31	3.94	-0.28	2.95	6.89
DEFA1	tryptophan	-0.14	1.07	-0.41	5.82	6.89
FABP1	taurocholate	0.19	1.76	0.38	5.13	6.89
SAA4	taurochenodeoxycholate	-0.34	4.66	-0.24	2.23	6.89
GPX3	X_12611	-0.36	5.22	-0.20	1.67	6.88
A1BG	X_12458	-0.33	4.44	-0.25	2.45	6.88
APCS	X_12442	-0.29	3.60	-0.30	3.29	6.88
PGLYRP2	one_arachidoyl_GPC	0.29	3.42	0.31	3.47	6.88
VASN	creatinine	0.28	3.23	0.32	3.65	6.88
CAT	tyrosine	0.28	3.29	0.31	3.59	6.88
SERPIND1	one_palmitoyl_GPC	0.31	4.05	0.28	2.83	6.88
HPX	methionine	-0.29	3.51	-0.30	3.37	6.88
APOL1	allantoin	-0.40	6.45	-0.08	0.43	6.88
APOC3	p_acetamidophenylglucuronide	0.26	2.93	0.33	3.95	6.88
SERPINC1	glycochenodeoxycholate	-0.35	4.88	-0.22	2.00	6.88
APOA4	hippurate	0.37	5.39	0.19	1.49	6.88
LUM	N6_carbamoylthreonyladenosine	0.29	3.56	0.30	3.32	6.88
LCN2	phenylalanine	0.29	3.49	0.30	3.39	6.88
COPB1	X_12442	0.22	2.17	0.36	4.71	6.88
MB	one_linoleoyl_GPC	-0.22	2.09	-0.37	4.79	6.88
TTR	X_08402	0.32	4.28	0.26	2.60	6.87
CFHR2	threonine	-0.33	4.48	-0.25	2.39	6.87
HBB	aspartate	0.12	0.82	0.41	6.05	6.87
SHBG	N6_carbamoylthreonyladenosine	-0.28	3.27	-0.31	3.60	6.87
GPX3	xylonate	-0.32	4.17	-0.27	2.70	6.87
PLG	octadecanedioate	-0.26	2.81	-0.34	4.06	6.87
KLKB1	beta_hydroxyisovalerate	-0.40	6.30	-0.10	0.56	6.87
VASN	phenylacetylglutamine	0.31	3.90	0.28	2.97	6.87
SERPINA1	X_12794	0.28	3.37	0.31	3.49	6.86
VSIG4	X_11538	0.20	1.87	0.37	4.99	6.86
DEFA1	X_12695	0.17	1.48	0.39	5.37	6.86
ECM1	X_11538	0.28	3.22	0.32	3.64	6.86
LUM	mannose	-0.25	2.77	-0.34	4.08	6.85
S100A8	X_12217	0.29	3.54	0.30	3.32	6.85
MB	decanoylcarnitine	0.30	3.75	0.29	3.11	6.85
RNASE1	three_methyl_2_oxovalerate	-0.22	2.23	-0.36	4.62	6.85
APOH	X_11261	0.34	4.59	0.24	2.26	6.85
VTN	urea	-0.28	3.29	-0.31	3.56	6.85
REG1A	gamma_glutamylphenylalanine	0.27	3.07	0.32	3.78	6.85
KNG1	X_11245	-0.29	3.54	-0.30	3.31	6.85

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
AMBP	X_11843	0.28	3.30	0.31	3.55	6.85
APOA4	piperine	0.32	4.25	0.26	2.60	6.85
C4BPA	laurate	-0.29	3.44	-0.31	3.41	6.85
A1BG	X_12802	-0.34	4.76	-0.23	2.09	6.85
ORM1	X_12095	0.22	2.11	0.36	4.74	6.85
ECM1	hydroxyproline	0.21	1.98	0.37	4.87	6.85
ADIPOQ	four_acetamidobutanoate	0.32	4.23	0.26	2.61	6.85
RBMX	X_11510	0.30	3.82	0.29	3.02	6.84
SERPINC1	HPLA	-0.33	4.36	-0.25	2.48	6.84
LGALS3BP	hexadecanedioate	0.26	2.97	0.33	3.88	6.84
FCGBP	X_11843	0.21	2.04	0.37	4.80	6.84
APOL1	X_12458	-0.36	5.08	-0.21	1.76	6.84
LBP	X_03056	0.36	5.17	0.20	1.67	6.84
FABP1	lysine	0.31	3.98	0.28	2.85	6.84
APOH	X_12405	0.34	4.63	0.24	2.21	6.84
SERPINA1	one_palmitoleoyl_GPC	-0.32	4.20	-0.26	2.64	6.84
RBP4	X_02973	0.25	2.74	0.34	4.10	6.84
TTR	one_linoleoyl_GPC	0.25	2.74	0.34	4.10	6.84
S100A8	X_11421	0.33	4.46	0.25	2.38	6.84
SAA4	seven_HOCA	-0.36	5.13	-0.20	1.70	6.83
APOA4	phenol_sulfate	0.36	5.09	0.21	1.74	6.83
ITIH2	X_12100	-0.30	3.72	-0.29	3.11	6.83
C4BPA	two_hydroxypalmitate	-0.37	5.63	-0.16	1.21	6.83
LUM	X_11423	0.28	3.33	0.31	3.51	6.83
TF	alanine	0.17	1.41	0.39	5.42	6.83
COPB1	pipecolate	0.33	4.39	0.25	2.44	6.83
SHBG	epiandrosterone_sulfate	-0.34	4.62	-0.24	2.21	6.83
S100A8	X_12117	0.35	4.98	0.21	1.84	6.83
HRG	X_05907	0.24	2.55	0.35	4.27	6.83
SERPINC1	pipecolate	-0.35	4.84	-0.22	1.99	6.83
CLU	one_oleoyl_GPC	0.26	2.80	0.33	4.03	6.83
FBLN1	X_12855	0.21	1.97	0.37	4.86	6.83
SAA3P	one_five_anhydroglucitol	-0.24	2.48	-0.35	4.35	6.82
CLU	X_11445	-0.31	3.92	-0.28	2.90	6.82
PON1	pseudouridine	-0.27	3.14	-0.32	3.68	6.82
C4BPB	glycochenodeoxycholate	-0.29	3.57	-0.30	3.25	6.82
TIMP1	butyrylcarnitine	0.23	2.37	0.35	4.45	6.82
RBP4	myo_inositol	0.22	2.12	0.36	4.70	6.82
SPINK1	arabinose	0.31	3.93	0.28	2.89	6.82
MB	one_palmitoyl_GPC	-0.20	1.80	-0.38	5.02	6.82
SPINK1	xylonate	0.34	4.56	0.24	2.25	6.82
PTGDS	X_11787	-0.31	3.88	-0.28	2.93	6.81
LBP	X_11444	0.28	3.20	0.32	3.61	6.81
VWF	X_13553	0.32	4.16	0.26	2.64	6.81
AHSG	one_oleoyl_GPE	0.26	2.94	0.33	3.87	6.81
HPR	myristoleate	-0.31	3.86	-0.28	2.94	6.81
KNG1	creatine	-0.27	3.16	-0.32	3.64	6.80
AZGP1	X_12860	0.32	4.28	0.26	2.52	6.80
AZGP1	cysteine	0.33	4.40	0.25	2.41	6.80
PON1	X_12850	-0.37	5.53	-0.17	1.27	6.80
ADIPOQ	X_05426	0.33	4.50	0.24	2.30	6.80
FCGBP	butyrylcarnitine	0.29	3.49	0.30	3.31	6.80
KLKB1	N_acetylthreonine	-0.35	4.94	-0.21	1.85	6.80
C8G	X_13553	-0.21	2.07	-0.36	4.73	6.80
ORM1	urea	0.33	4.50	0.24	2.30	6.80
SAA3P	gluconate	0.34	4.61	0.24	2.19	6.80

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
AZGP1	N_acetylneuraminate	0.30	3.73	0.29	3.06	6.80
LCN2	pipecolate	0.33	4.47	0.25	2.32	6.79
APOH	one_arachidoyl_GPE	0.30	3.65	0.29	3.14	6.79
C1QA	X_12688	0.29	3.50	0.30	3.29	6.79
VWF	one_palmitoleoyl_GPC	-0.28	3.22	-0.31	3.57	6.79
B2M	X_11843	0.28	3.37	0.31	3.41	6.79
SAA1	X_11470	0.28	3.33	0.31	3.45	6.79
PLG	urea	-0.18	1.62	-0.38	5.17	6.79
APOA4	indolelactate	0.33	4.52	0.24	2.26	6.79
SAA1	one_arachidoyl_GPE	-0.35	4.97	-0.21	1.81	6.78
FN1	caffeine	0.13	0.96	0.41	5.82	6.78
HRG	X_14658	-0.34	4.56	-0.24	2.22	6.78
COL3A1	X_11538	0.34	4.78	0.22	2.00	6.78
APOD	alpha_ketoglutarate	0.32	4.22	0.26	2.55	6.78
SHBG	X_11440	-0.36	5.33	-0.18	1.44	6.78
PON1	X_11687	-0.21	2.00	-0.37	4.77	6.77
TIMP1	octanoylcarnitine	0.23	2.34	0.35	4.43	6.77
SERPIND1	X_11510	-0.29	3.54	-0.30	3.24	6.77
SAA1	X_01327	-0.31	4.01	-0.27	2.76	6.77
FBLN1	X_12206	0.29	3.54	0.30	3.23	6.77
SERPINA6	deoxycarnitine	0.33	4.40	0.25	2.38	6.77
ITIH2	phenylalanine	-0.34	4.67	-0.23	2.10	6.77
GPX3	myristoleate	0.34	4.72	0.23	2.04	6.77
ORM1	citrate	-0.34	4.70	-0.23	2.07	6.77
PON1	X_05907	0.28	3.25	0.31	3.52	6.77
TF	X_03951	-0.29	3.47	-0.30	3.29	6.77
RBMX	octadecanedioate	0.24	2.60	0.34	4.17	6.77
PON1	one_arachidoyl_GPC	0.30	3.68	0.29	3.08	6.77
VTN	X_12405	-0.25	2.66	-0.34	4.11	6.77
HRG	X_11538	-0.32	4.13	-0.26	2.64	6.76
APOE	X_14662	0.28	3.25	0.31	3.52	6.76
LCN2	X_12850	0.34	4.70	0.23	2.07	6.76
CST3	X_08889	0.16	1.28	0.39	5.48	6.76
VASN	X_10266	0.22	2.16	0.36	4.60	6.76
COL1A1	N2_N2_dimethylguanosine	0.35	4.92	0.21	1.84	6.76
AFM	dihomolinolenate	0.38	5.72	0.15	1.03	6.76
GPX3	X_11850	-0.29	3.54	-0.30	3.22	6.76
SERPINA1	piperine	-0.24	2.54	-0.34	4.21	6.76
CFH	creatine	-0.29	3.46	-0.30	3.30	6.76
SERPINF1	phenylacetylglutamine	0.21	2.03	0.36	4.72	6.75
SERPINC1	X_14658	-0.32	4.17	-0.26	2.58	6.75
S100A9	X_11421	0.26	2.88	0.33	3.87	6.75
FCGBP	arabinose	0.27	3.04	0.32	3.70	6.75
RBMX	X_10395	-0.32	4.28	-0.25	2.46	6.74
PON1	X_14658	-0.37	5.54	-0.16	1.20	6.74
FBLN1	X_04629	0.26	2.93	0.32	3.81	6.74
VASN	X_11593	0.29	3.56	0.29	3.18	6.74
LRG1	glutamate	-0.31	3.94	-0.27	2.80	6.74
SERPIND1	methionine	-0.29	3.57	-0.29	3.16	6.74
PON1	N6_carbamoylthreonyladenosine	-0.23	2.26	-0.35	4.47	6.74
LCN2	X_12095	0.30	3.69	0.29	3.04	6.73
AHSG	alpha_ketobutyrate	-0.28	3.21	-0.31	3.52	6.73
REG1A	two_methylbutyroylcarnitine	0.20	1.80	0.37	4.94	6.73
APOA2	octadecanedioate	-0.32	4.23	-0.26	2.51	6.73
AZGP1	X_12802	0.28	3.29	0.31	3.44	6.73
C1QC	seven_HOCA	0.25	2.77	0.33	3.97	6.73

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
IGFBP4	prolylhydroxyproline	0.40	6.37	0.07	0.36	6.73
REG1A	cysteine	0.25	2.77	0.33	3.96	6.73
KNG1	X_03056	-0.31	3.89	-0.28	2.84	6.73
CFD	N_acetylthreonine	0.23	2.34	0.35	4.39	6.73
VSIG4	mannitol	0.28	3.36	0.30	3.37	6.73
APOH	X_14658	-0.28	3.31	-0.31	3.42	6.73
APOA4	X_12117	0.32	4.22	0.26	2.51	6.73
ABCA13	tryptophan	0.23	2.32	0.35	4.41	6.73
SHBG	X_11444	-0.37	5.51	-0.16	1.22	6.73
LRG1	glutamine	-0.29	3.45	-0.30	3.27	6.73
REG1A	X_12101	0.27	3.16	0.31	3.56	6.73
VSIG4	X_14658	0.19	1.71	0.38	5.01	6.72
APOD	glycerol_3_phosphate	0.31	4.06	0.27	2.66	6.72
LRG1	glycine	-0.16	1.29	-0.39	5.43	6.72
C1QC	taurocholate	0.33	4.42	0.24	2.31	6.72
REG1A	prolylhydroxyproline	0.23	2.38	0.35	4.33	6.72
AMBP	X_11421	0.32	4.17	0.26	2.54	6.72
CFHR2	urea	0.30	3.75	0.28	2.96	6.71
S100A9	four_acetamidobutanoate	0.29	3.42	0.30	3.29	6.71
C4BPB	alpha_hydroxyisovalerate	-0.32	4.19	-0.26	2.53	6.71
KLKB1	X_11786	0.32	4.13	0.26	2.58	6.71
ITIH1	X_14658	-0.34	4.77	-0.22	1.95	6.71
AFM	X_05522	-0.33	4.33	-0.25	2.38	6.71
FCGBP	X_11429	0.27	3.09	0.32	3.62	6.71
S100A9	propionylcarnitine	0.33	4.54	0.24	2.17	6.71
VASN	X_12217	0.22	2.23	0.35	4.48	6.71
KLKB1	X_10483	-0.34	4.70	-0.22	2.01	6.71
PLG	one_arachidoyl_GPE	0.14	1.01	0.40	5.69	6.70
ORM2	X_12688	0.23	2.34	0.35	4.37	6.70
SERPIND1	deoxycarnitine	-0.35	4.99	-0.20	1.71	6.70
KNG1	butyrylcarnitine	-0.29	3.58	-0.29	3.12	6.70
SERPINF1	X_12749	0.29	3.49	0.30	3.21	6.70
HRG	X_12794	-0.29	3.48	-0.30	3.22	6.70
SHBG	tyrosine	0.40	6.42	0.06	0.27	6.70
SERPIND1	X_12850	-0.32	4.12	-0.26	2.58	6.70
TF	three_cystein_S_yl_acetaminophen	-0.23	2.41	-0.35	4.28	6.70
BAI2	one_arachidoyl_GPE	-0.28	3.22	-0.31	3.47	6.69
VSIG4	xylonate	0.32	4.11	0.26	2.58	6.69
APOA2	deoxycarnitine	-0.32	4.08	-0.26	2.61	6.69
LUM	X_12510	0.27	3.18	0.31	3.51	6.69
COL3A1	octadecanedioate	0.35	5.06	0.20	1.63	6.69
ITIH2	X_12802	-0.30	3.74	-0.28	2.95	6.69
APOH	threitol	0.31	3.89	0.27	2.80	6.69
DEFA1	isobutyrylcarnitine	0.28	3.21	0.31	3.48	6.69
LCP1	one_palmitoyl_GPC	-0.25	2.63	-0.34	4.06	6.68
S100A8	X_14662	0.18	1.52	0.38	5.17	6.68
SAA1	X_12802	0.33	4.44	0.24	2.24	6.68
MB	one_stearoyl_GPC	-0.15	1.14	-0.40	5.54	6.68
VSIG4	X_12850	0.24	2.45	0.34	4.24	6.68
COL11A2	two_palmitoyl_GPC	0.20	1.80	0.37	4.88	6.68
APOC3	X_12101	0.33	4.36	0.25	2.32	6.68
PLEK	citrulline	0.38	5.75	0.14	0.93	6.68
DEFA1	glutaroylcarnitine	0.29	3.41	0.30	3.27	6.68
ADIPOQ	X_11423	0.32	4.29	0.25	2.38	6.68
B2M	two_methylbutyroylcarnitine	0.28	3.21	0.31	3.47	6.68
C1QC	X_12100	0.23	2.41	0.35	4.26	6.68

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
ECM1	caffeine	0.20	1.92	0.37	4.76	6.68
C1QA	urea	0.26	2.97	0.32	3.70	6.68
TTR	citrulline	0.32	4.23	0.25	2.45	6.67
APOA2	one_linoleoyl_GPC	0.27	3.14	0.31	3.53	6.67
DEFA1	X_13619	-0.25	2.63	-0.34	4.05	6.67
RNASE1	hydroxyisovaleroylcarnitine	0.25	2.63	0.34	4.04	6.67
CD14	X_04499	0.27	3.12	0.31	3.55	6.67
A1BG	urea	-0.35	4.94	-0.21	1.73	6.67
COL1A1	prolylhydroxyproline	0.34	4.73	0.22	1.94	6.67
ORM1	biliverdin	-0.34	4.77	-0.22	1.89	6.67
PLG	one_oleoyl_GPC	0.18	1.55	0.38	5.11	6.67
SERPINC1	two_palmitoyl_GPC	0.26	2.79	0.33	3.88	6.67
ACTBL2	pipecolate	0.33	4.42	0.24	2.24	6.67
RNASE1	cholesterol	0.39	5.96	0.11	0.70	6.66
LUM	X_12095	0.32	4.21	0.25	2.45	6.66
SAA1	N_acetylalanine	0.34	4.60	0.23	2.06	6.66
SERPIND1	X_12688	-0.30	3.66	-0.28	3.01	6.66
S100A8	one_linoleoyl_GPC	-0.21	2.02	-0.36	4.64	6.66
ORM1	X_12688	0.26	2.79	0.33	3.87	6.66
VTN	X_12101	-0.27	3.10	-0.31	3.56	6.66
CRP	threonine	-0.27	3.08	-0.31	3.58	6.66
AZGP1	X_12099	0.35	4.91	0.21	1.74	6.66
ITIH2	urea	-0.30	3.78	-0.28	2.88	6.66
SAA1	gamma_glutamylglutamine	-0.22	2.15	-0.36	4.51	6.66
SHBG	X_12990	0.36	5.30	0.18	1.35	6.65
RBP4	X_11429	0.15	1.20	0.39	5.46	6.65
SAA3P	beta_hydroxyisovalerate	0.37	5.39	0.17	1.26	6.65
ULK4	X_10395	0.31	3.85	0.27	2.80	6.65
LCN2	pelargonate	-0.28	3.37	-0.30	3.29	6.65
PGLYRP2	one_palmitoleoyl_GPC	0.31	4.01	0.26	2.64	6.65
SERPINF1	one_methylimidazoleacetate	0.28	3.30	0.30	3.35	6.65
COL11A2	X_06246	0.24	2.51	0.34	4.14	6.65
S100A8	X_11423	0.34	4.75	0.22	1.90	6.65
VTN	glutaroylcarnitine	-0.22	2.14	-0.36	4.52	6.65
APOL1	one_methyladenosine	-0.34	4.81	-0.21	1.84	6.65
AZGP1	tiglyl_carnitine	0.31	3.84	0.27	2.81	6.65
SAA4	X_12850	-0.31	3.99	-0.27	2.66	6.65
CFD	cysteine	0.24	2.50	0.34	4.15	6.65
VSIG4	X_10266	0.32	4.29	0.25	2.36	6.65
PRDX2	aspartate	0.09	0.57	0.41	6.07	6.65
SHBG	X_11273	-0.31	3.93	-0.27	2.72	6.64
SERPINA3	two_methylbutyroylcarnitine	0.34	4.80	0.21	1.84	6.64
ORM2	biliverdin	-0.35	5.07	-0.19	1.57	6.64
DEFA1	X_04498	0.32	4.22	0.25	2.42	6.64
SAA1	beta_hydroxyisovalerate	0.37	5.40	0.17	1.24	6.64
LCN2	glycocholate	0.31	4.05	0.26	2.59	6.64
SERPINF1	X_12095	0.35	4.85	0.21	1.78	6.64
SERPINA6	two_methylbutyroylcarnitine	0.33	4.55	0.23	2.09	6.63
HRG	octanoylcarnitine	-0.31	3.88	-0.27	2.75	6.63
APOA2	four_methyl_2_oxopentanoate	0.30	3.75	0.28	2.88	6.63
TIMP1	pelargonate	-0.26	2.89	-0.32	3.74	6.63
LUM	glycocholate	0.30	3.62	0.28	3.00	6.63
AHSG	X_04495	-0.30	3.64	-0.28	2.99	6.63
COL1A1	X_11423	0.38	5.74	0.13	0.89	6.63
S100A9	X_12458	0.28	3.37	0.30	3.25	6.62
FN1	histidine	0.25	2.73	0.33	3.89	6.62

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
REG1A	taurocholate	0.31	3.96	0.27	2.66	6.62
AHSG	X_11843	-0.28	3.26	-0.30	3.35	6.61
VTN	four_acetamidophenol	0.34	4.78	0.21	1.83	6.61
MB	octadecanedioate	0.11	0.72	0.41	5.89	6.61
C7	citrate	0.29	3.45	0.29	3.16	6.61
BAI2	two_palmitoyl_GPC	-0.21	2.00	-0.36	4.62	6.61
MYO18B	alanine	0.08	0.50	0.42	6.11	6.61
APOD	malate	0.29	3.58	0.29	3.03	6.61
S100A9	X_12611	0.32	4.27	0.25	2.34	6.61
SEPP1	one_oleoyl_GPC	0.35	5.02	0.19	1.59	6.61
AHSG	X_05522	-0.27	3.03	-0.31	3.58	6.61
ORM2	two_methylbutyroylcarnitine	0.25	2.76	0.33	3.85	6.61
CFHR2	choline	0.32	4.22	0.25	2.39	6.60
AZGP1	X_10439	0.33	4.41	0.24	2.19	6.60
SERPIND1	X_04498	-0.26	2.88	-0.32	3.73	6.60
ORM2	X_06246	-0.20	1.84	-0.37	4.77	6.60
DEFA1	X_11423	0.21	2.02	0.36	4.59	6.60
LUM	X_12101	0.28	3.23	0.30	3.37	6.60
AMBP	scyllo_inositol	0.32	4.12	0.26	2.48	6.60
AZGP1	X_11421	0.29	3.44	0.29	3.16	6.60
RNASE1	X_09789	0.26	2.95	0.32	3.65	6.60
SERPIND1	N_acetylthreonine	-0.26	2.96	-0.32	3.64	6.60
AFM	octanoylcarnitine	-0.32	4.29	-0.24	2.31	6.60
HBB	X_14588	-0.15	1.16	-0.39	5.44	6.60
SERPINF1	arabinose	0.22	2.23	0.35	4.37	6.60
S100A8	glutaroylcarnitine	0.34	4.77	0.21	1.83	6.60
ABCA13	one_stearoyl_GPC	0.25	2.76	0.33	3.83	6.60
S100A9	X_05522	0.34	4.71	0.22	1.89	6.60
SPINK1	arabitol	0.33	4.52	0.23	2.08	6.59
FCGBP	mannose	0.10	0.65	0.41	5.94	6.59
LUM	arabinose	0.27	3.18	0.31	3.42	6.59
TIMP1	taurocholate	0.30	3.71	0.28	2.88	6.59
LGALS3BP	X_12510	0.27	3.05	0.31	3.54	6.59
ECM1	X_04357	0.34	4.60	0.22	1.99	6.59
CFD	choline	0.29	3.48	0.29	3.11	6.59
CD14	X_13619	-0.19	1.66	-0.37	4.93	6.59
FGA	seven_HOCA	-0.27	3.00	-0.31	3.59	6.59
GPX3	prolylhydroxyproline	-0.30	3.65	-0.28	2.94	6.59
PON1	four_acetamidobutanoate	-0.22	2.18	-0.35	4.41	6.59
CFD	carnitine	-0.28	3.34	-0.30	3.24	6.59
CST3	one_arachidoyl_GPE	-0.32	4.16	-0.25	2.43	6.58
APOH	X_12644	0.17	1.39	0.38	5.19	6.58
PLG	X_04595	-0.25	2.73	-0.33	3.85	6.58
TTR	glycerol_3_phosphate	0.28	3.38	0.29	3.19	6.58
CD14	HPLA	0.25	2.72	0.33	3.85	6.58
SPINK1	X_12101	0.29	3.55	0.29	3.03	6.58
APOA1	one_arachidoyl_GPE	0.19	1.67	0.37	4.90	6.58
ITIH2	octanoylcarnitine	-0.21	2.06	-0.36	4.51	6.57
COL1A1	N6_carbamoylthreonyladenosine	0.36	5.22	0.18	1.36	6.57
PTGDS	isobutyrylcarnitine	0.30	3.69	0.28	2.89	6.57
SAA3P	phenylalanine	0.37	5.59	0.14	0.98	6.57
LCP1	X_10395	-0.38	5.68	-0.13	0.89	6.57
DEFA1	X_11334	0.22	2.24	0.35	4.33	6.57
VTN	X_11491	-0.29	3.46	-0.29	3.11	6.57
SERPINF1	X_11423	0.24	2.47	0.34	4.10	6.57
BAI2	one_palmitoleoyl_GPC	-0.25	2.74	-0.33	3.83	6.57

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
APOD	one_palmitoylglycerol	0.33	4.48	0.23	2.09	6.57
SAA3P	X_06268	-0.14	1.07	-0.39	5.50	6.57
CLU	X_11538	-0.10	0.67	-0.41	5.90	6.57
LBP	gamma_glutamylphenylalanine	0.30	3.61	0.28	2.96	6.57
APOC1	one_stearoyl_GPC	0.26	2.86	0.32	3.71	6.57
FCGBP	hexadecanedioate	0.30	3.69	0.28	2.88	6.56
S100A9	phenylacetylglutamine	0.26	2.95	0.32	3.61	6.56
LUM	pseudouridine	0.28	3.26	0.30	3.31	6.56
C7	X_13553	0.35	4.90	0.20	1.67	6.56
HRG	alpha_ketobutyrate	-0.19	1.64	-0.37	4.92	6.56
PLG	X_12855	-0.19	1.73	-0.37	4.84	6.56
COL1A1	X_10510	-0.08	0.51	-0.41	6.05	6.56
LRG1	X_11786	-0.28	3.26	-0.30	3.30	6.56
C1QB	N_acetylthreonine	0.36	5.10	0.18	1.46	6.56
LYZ	alpha_ketobutyrate	-0.27	3.08	-0.31	3.48	6.56
SEPP1	one_linoleoyl_GPC	0.36	5.35	0.16	1.21	6.56
CST3	taurochenodeoxycholate	0.39	5.95	0.10	0.61	6.56
C4BPA	palmitoleate	-0.28	3.20	-0.30	3.36	6.56
DEFA1	X_12688	0.25	2.64	0.33	3.92	6.55
C1QB	X_05907	-0.34	4.75	-0.21	1.81	6.55
C1QA	one_palmitoyl_GPC	-0.34	4.76	-0.21	1.79	6.55
CRP	X_12794	0.30	3.82	0.27	2.74	6.55
AMBP	deoxycarnitine	0.33	4.34	0.24	2.21	6.55
GPX3	xanthine	0.32	4.16	0.25	2.39	6.55
KNG1	X_08402	0.27	3.03	0.31	3.53	6.55
BAI2	one_linoleoyl_GPC	-0.17	1.47	-0.38	5.08	6.55
ACTA2	bilirubin	0.05	0.25	0.42	6.30	6.55
SERPINA1	three_cystein_S_yl_acetaminophen	0.33	4.47	0.23	2.08	6.55
APOC3	N2_N2_dimethylguanosine	0.26	2.85	0.32	3.70	6.55
ADIPOQ	hippurate	0.34	4.70	0.21	1.85	6.55
AFM	X_11244	-0.22	2.13	-0.35	4.42	6.55
CD5L	gamma_glutamyltyrosine	0.36	5.20	0.18	1.34	6.54
FCGBP	N6_carbamoylthreonyladenosine	0.20	1.80	0.37	4.74	6.54
SERPINA1	beta_hydroxyisovalerate	0.34	4.64	0.22	1.90	6.54
APOC3	CMPF	0.29	3.45	0.29	3.09	6.54
IGFBP4	X_12855	0.38	5.89	0.11	0.65	6.54
S100A8	X_10266	0.27	3.14	0.30	3.40	6.54
SAA3P	gulono_1_4_lactone	0.31	4.06	0.25	2.48	6.54
SERPIND1	X_12458	-0.25	2.66	-0.33	3.88	6.53
FABP1	X_11538	0.08	0.44	0.42	6.09	6.53
APOA2	X_03056	-0.30	3.76	-0.27	2.77	6.53
HRG	tryptophan	0.33	4.53	0.22	2.00	6.53
ABCA13	X_11786	0.28	3.33	0.29	3.20	6.53
SAA1	X_04495	0.36	5.25	0.17	1.28	6.53
RNASE1	acetylcarnitine	0.20	1.82	0.36	4.71	6.53
SERPINC1	hexadecanedioate	-0.21	2.05	-0.35	4.47	6.52
APOA4	erythronate	0.32	4.07	0.25	2.45	6.52
FBLN1	X_05522	0.26	2.83	0.32	3.69	6.52
APOH	pipecolate	-0.27	3.16	-0.30	3.35	6.52
ECM1	taurocholate	0.26	2.82	0.32	3.70	6.52
PLG	X_11521	-0.18	1.57	-0.37	4.94	6.52
CFHR2	myo_inositol	0.28	3.22	0.30	3.30	6.52
CD14	X_11838	0.27	3.05	0.31	3.46	6.51
KLKB1	one_stearoyl_GPC	0.34	4.60	0.22	1.92	6.51
SAA3P	X_12644	-0.33	4.35	-0.24	2.16	6.51
C1QB	X_10483	0.39	5.99	0.09	0.52	6.51

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
APOA2	X_12458	-0.33	4.40	-0.23	2.12	6.51
AFM	threonine	0.24	2.60	0.33	3.92	6.51
C1QA	gamma_glutamyltyrosine	0.32	4.24	0.24	2.27	6.51
TF	hexanoylcarnitine	-0.31	4.04	-0.25	2.47	6.51
ITIH1	phenylalanine	-0.34	4.67	-0.21	1.84	6.51
SAA1	four_acetamidophenol	0.24	2.54	0.33	3.97	6.51
IGFBP4	tiglyl_carnitine	0.30	3.67	0.28	2.83	6.51
HPR	taurochenodeoxycholate	-0.25	2.71	-0.32	3.79	6.50
SAA1	X_04629	0.33	4.53	0.22	1.98	6.50
ORM2	creatinine	0.24	2.44	0.34	4.07	6.50
S100A8	propionylcarnitine	0.32	4.13	0.25	2.37	6.50
DEFA1	X_12611	0.19	1.76	0.36	4.74	6.50
PTGDS	scyllo_inositol	0.27	3.12	0.30	3.38	6.50
ECM1	gamma_glutamyltyrosine	0.27	3.02	0.31	3.48	6.50
IGFBP4	X_04595	0.32	4.14	0.25	2.36	6.50
LGALS3BP	X_11538	0.26	2.87	0.32	3.63	6.50
AHSG	X_12465	-0.27	3.05	-0.31	3.44	6.50
GPX3	quinate	-0.26	2.88	-0.32	3.62	6.50
SHBG	X_12099	-0.31	4.00	-0.26	2.50	6.49
APOC3	pseudouridine	0.27	3.02	0.31	3.48	6.49
PGLYRP2	one_arachidoyl_GPE	0.34	4.64	0.21	1.85	6.49
VSIG4	phenylalanine	0.29	3.46	0.29	3.03	6.49
C1QA	X_12855	0.27	3.04	0.31	3.44	6.49
VASN	malate	0.11	0.75	0.40	5.74	6.49
ORM2	xylonate	0.28	3.24	0.30	3.25	6.49
VWF	biliverdin	0.28	3.24	0.30	3.25	6.49
MB	butyrylcarnitine	0.31	4.00	0.26	2.49	6.49
C1RL	X_10395	-0.40	6.47	0.00	0.01	6.49
LCN2	threitol	0.29	3.52	0.28	2.96	6.48
CES1	X_14658	0.18	1.59	0.37	4.89	6.48
SERPINA3	X_11440	0.24	2.51	0.33	3.97	6.48
GSN	X_10395	0.26	2.82	0.32	3.66	6.48
DEFA1	hydroxyisovaleroylcarnitine	0.16	1.36	0.38	5.13	6.48
VASN	prolylhydroxyproline	0.28	3.32	0.29	3.16	6.48
CFD	X_11510	0.23	2.30	0.34	4.18	6.48
FCGBP	X_11786	-0.10	0.61	-0.41	5.87	6.48
ORM1	hexanoylcarnitine	0.27	3.18	0.30	3.30	6.48
COL1A1	X_05426	0.36	5.28	0.16	1.20	6.48
LUM	lysine	0.25	2.66	0.33	3.82	6.48
APOC3	glutaroylcarnitine	0.28	3.19	0.30	3.29	6.48
S100A8	one_arachidoyl_GPE	-0.24	2.56	-0.33	3.91	6.47
PON1	X_12688	-0.23	2.27	-0.34	4.20	6.47
LRG1	X_03056	0.33	4.45	0.23	2.03	6.47
COPB1	X_12786	0.17	1.39	0.38	5.09	6.47
LYZ	one_five_anhydroglucitol	-0.39	5.96	-0.09	0.52	6.47
CRP	three_hydroxy_2_ethylpropionate	0.36	5.30	0.16	1.17	6.47
TF	X_05522	-0.30	3.76	-0.27	2.71	6.47
SAA3P	epiandrosterone_sulfate	0.28	3.32	0.29	3.14	6.47
FN1	piperine	0.34	4.64	0.21	1.83	6.47
HPR	glycochenodeoxycholate	-0.23	2.27	-0.34	4.20	6.47
ITIH2	three_hydroxy_2_ethylpropionate	-0.32	4.22	-0.24	2.25	6.47
MB	one_eicosatrienoyl_GPC	-0.21	2.00	-0.35	4.46	6.46
SERPINA3	one_methyladenosine	0.23	2.34	0.34	4.13	6.46
LRG1	X_03094	-0.31	3.87	-0.26	2.60	6.46
C1QC	X_11510	0.20	1.79	0.36	4.68	6.46
SAA3P	N_acetylneuraminate	0.36	5.12	0.18	1.34	6.46

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
C1QC	four_methyl_2_oxopentanoate	-0.32	4.23	-0.24	2.24	6.46
SEPP1	two_palmitoyl_GPC	0.35	5.01	0.18	1.45	6.46
ORM2	X_11315	-0.20	1.87	-0.36	4.59	6.46
PTGDS	gamma_glutamylleucine	0.25	2.77	0.32	3.68	6.46
CES1	threonine	0.19	1.76	0.36	4.70	6.46
LCP1	X_14588	0.25	2.63	0.33	3.82	6.46
SERPINF1	one_five_anhydroglucitol	-0.18	1.59	-0.37	4.86	6.45
S100A8	arabinose	0.35	4.85	0.20	1.60	6.45
ITIH2	dihomolinolenate	0.34	4.78	0.20	1.67	6.45
IGFBP4	X_12802	0.35	4.94	0.19	1.51	6.45
AFP	X_04357	0.34	4.61	0.21	1.84	6.45
HRG	one_linoleoyl_GPC	0.25	2.61	0.33	3.84	6.45
AHSG	prolylhydroxyproline	-0.28	3.37	-0.29	3.08	6.45
BAI2	one_arachidoyl_GPC	-0.20	1.80	-0.36	4.65	6.45
SEPP1	one_arachidoyl_GPC	0.34	4.79	0.20	1.65	6.45
SERPINA1	citrulline	-0.32	4.24	-0.24	2.21	6.45
VSIG4	hexadecanedioate	0.21	2.03	0.35	4.42	6.44
FGG	malate	-0.24	2.48	-0.33	3.96	6.44
LGALS3BP	myristoleate	0.31	4.02	0.25	2.41	6.44
PON1	X_11429	-0.27	3.01	-0.31	3.43	6.44
AFM	X_11245	-0.31	3.84	-0.26	2.60	6.43
C1QB	X_12101	0.33	4.33	0.23	2.10	6.43
PLG	N_acetylthreonine	-0.20	1.84	-0.36	4.59	6.43
SAA3P	one_oleoyl_GPE	-0.29	3.43	-0.28	3.01	6.43
VSIG4	heptanoate	-0.29	3.56	-0.28	2.88	6.43
C1QC	N_acetylalanine	0.28	3.34	0.29	3.10	6.43
FBLN1	pyridoxate	0.27	3.00	0.31	3.43	6.43
VASN	myo_inositol	0.30	3.64	0.27	2.79	6.43
A1BG	X_11429	-0.32	4.28	-0.23	2.15	6.43
CFHR2	pantothenate	0.22	2.10	0.35	4.32	6.42
SAA3P	p_acetamidophenylglucuronide	0.19	1.71	0.36	4.71	6.42
CFD	N_acetylneuraminate	0.18	1.60	0.37	4.83	6.42
SPINK1	X_12104	0.20	1.91	0.36	4.51	6.42
VWF	X_11491	0.25	2.64	0.32	3.78	6.42
C8A	malate	-0.05	0.26	-0.42	6.17	6.42
BAI2	beta_hydroxyisovalerate	0.37	5.42	0.14	1.00	6.42
APOA2	X_13553	-0.34	4.70	-0.20	1.72	6.42
HPX	X_11490	-0.29	3.47	-0.28	2.94	6.42
LYZ	X_11452	0.29	3.57	0.28	2.85	6.42
LUM	X_10266	0.31	3.85	0.26	2.57	6.42
F12	beta_hydroxyisovalerate	-0.36	5.08	-0.17	1.33	6.42
AFM	one_arachidoyl_GPC	0.29	3.40	0.28	3.01	6.41
APOC3	X_12749	0.25	2.67	0.32	3.74	6.41
SAA1	N_acetylthreonine	0.39	6.23	0.04	0.18	6.41
ORM1	X_11244	0.26	2.82	0.31	3.59	6.41
DEFA1	X_10266	0.14	1.01	0.39	5.40	6.41
CFI	X_12688	-0.28	3.38	-0.29	3.03	6.41
LBP	tiglyl_carnitine	0.31	3.84	0.26	2.57	6.41
CP	palmitoylcarnitine	0.32	4.16	0.24	2.24	6.41
CD14	X_12101	0.19	1.70	0.36	4.71	6.41
PON1	X_12101	-0.27	3.11	-0.30	3.29	6.40
REG1A	X_11437	0.27	3.18	0.30	3.22	6.40
SERPINA1	citrate	-0.31	3.96	-0.25	2.44	6.40
FGG	seven_HOCA	-0.26	2.93	-0.31	3.48	6.40
SERPINA3	three_cystein_S_yl_acetaminophen	0.33	4.35	0.23	2.05	6.40
REG1A	malate	0.28	3.24	0.29	3.16	6.40

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
SERPINF1	glutaroylcarnitine	0.23	2.39	0.33	4.01	6.40
KNG1	one_eicosatrienoyl_GPC	0.27	3.00	0.30	3.40	6.40
ADIPOQ	catechol_sulfate	0.30	3.78	0.26	2.62	6.40
PON1	X_03951	-0.22	2.19	-0.34	4.21	6.40
FCGBP	taurolithocholate_3_sulfate	0.30	3.83	0.26	2.57	6.40
PON1	N2_N2_dimethylguanosine	-0.26	2.82	-0.31	3.58	6.40
VSIG4	methionine	0.15	1.21	0.38	5.18	6.39
FABP1	lactate	0.36	5.11	0.17	1.29	6.39
LCP1	one_stearoyl_GPC	-0.21	1.98	-0.35	4.41	6.39
ORM2	X_11437	0.19	1.77	0.36	4.62	6.39
LCN2	cysteine	0.28	3.31	0.29	3.08	6.39
LCP1	one_arachidoyl_GPC	-0.24	2.57	-0.33	3.82	6.39
VSIG4	taurochenodeoxycholate	0.13	1.00	0.39	5.39	6.39
ICAM2	threonine	0.32	4.19	0.24	2.20	6.39
A1BG	X_12611	-0.32	4.22	-0.24	2.16	6.38
ADIPOQ	X_04504	0.32	4.22	0.24	2.16	6.38
SERPIND1	betaine	-0.31	4.00	-0.25	2.38	6.38
TF	three_methyl_2_oxovalerate	0.23	2.30	0.34	4.08	6.38
FGB	malate	-0.27	3.02	-0.30	3.36	6.38
SERPINA3	octanoylcarnitine	0.27	3.12	0.30	3.26	6.38
C4BPA	five_dodecenoate	-0.28	3.38	-0.28	3.00	6.38
ADIPOQ	X_02249	0.35	4.97	0.18	1.40	6.38
VSIG4	phenol_sulfate	0.27	3.15	0.30	3.22	6.38
RBP4	X_08402	0.31	4.02	0.25	2.35	6.38
LGALS3BP	gamma_glutamyltyrosine	0.31	3.90	0.25	2.48	6.38
LRG1	X_12794	0.33	4.53	0.21	1.84	6.37
FCGBP	X_13429	0.15	1.22	0.38	5.15	6.37
TF	X_11795	0.17	1.40	0.37	4.98	6.37
CD14	X_11593	0.23	2.32	0.34	4.05	6.37
LCP1	one_arachidoyl_GPE	-0.22	2.16	-0.34	4.21	6.37
PLG	two_methylbutyroylcarnitine	-0.22	2.14	-0.34	4.22	6.36
FCGBP	four_acetaminophen_sulfate	0.02	0.10	0.42	6.27	6.36
ORM2	proline	-0.32	4.30	-0.23	2.07	6.36
LYZ	pantothenate	0.37	5.45	0.14	0.91	6.36
PLG	X_04498	-0.19	1.64	-0.36	4.72	6.36
AZGP1	X_09789	0.29	3.56	0.27	2.80	6.36
COL11A2	octanoylcarnitine	-0.30	3.80	-0.26	2.56	6.36
RNASE1	decanoylcarnitine	0.23	2.35	0.33	4.01	6.35
APOA2	one_arachidoyl_GPC	0.23	2.40	0.33	3.95	6.35
SERPINC1	one_eicosatrienoyl_GPC	0.23	2.28	0.34	4.07	6.35
RBMX	one_palmitoyl_GPC	-0.05	0.24	-0.42	6.11	6.35
ITIH3	X_12775	0.24	2.59	0.32	3.76	6.35
PON1	one_methyladenosine	-0.33	4.38	-0.22	1.98	6.35
CRP	X_12092	0.26	2.82	0.31	3.53	6.35
SAA1	X_10483	0.35	4.84	0.19	1.51	6.35
TIMP1	one_methyladenosine	0.26	2.83	0.31	3.51	6.35
SAA3P	phenylacetylglutamine	0.30	3.79	0.26	2.55	6.35
C7	myristoleate	0.31	3.98	0.25	2.37	6.35
A1BG	N_acetylthreonine	-0.30	3.62	-0.27	2.72	6.34
ADIPOQ	X_12206	0.35	5.06	0.17	1.28	6.34
SERPINA1	X_03056	0.31	3.89	0.25	2.46	6.34
APOL1	X_10483	-0.37	5.50	-0.13	0.85	6.34
TF	X_12104	-0.16	1.28	-0.38	5.06	6.34
RNASE1	X_11470	0.24	2.45	0.33	3.89	6.34
CAT	hexadecanedioate	0.18	1.58	0.37	4.76	6.34
SHBG	seven_HOCA	0.37	5.42	0.14	0.92	6.34

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
CD14	X_11334	0.20	1.85	0.35	4.49	6.34
AFM	hexanoylcarnitine	-0.35	4.88	-0.18	1.46	6.34
SAA4	X_10744	0.26	2.92	0.31	3.42	6.33
B2M	one_arachidoyl_GPC	-0.21	1.97	-0.35	4.36	6.33
ECM1	X_12442	0.35	5.02	0.17	1.31	6.33
CES1	aspartate	0.18	1.56	0.37	4.77	6.33
APOE	X_10510	0.32	4.11	0.24	2.22	6.33
A1BG	X_05522	-0.35	4.82	-0.19	1.51	6.33
ULK4	X_11538	-0.32	4.24	-0.23	2.09	6.33
C1QA	tiglyl_carnitine	0.28	3.32	0.28	3.01	6.33
VASN	X_12794	0.31	3.96	0.25	2.37	6.33
ORM1	three_hydroxy_2_ethylpropionate	0.35	4.94	0.18	1.39	6.33
AZGP1	glutamylvaline	0.36	5.24	0.15	1.09	6.33
RNASE1	three_hydroxy_2_ethylpropionate	0.29	3.56	0.27	2.77	6.33
FN1	glutamine	0.22	2.11	0.34	4.22	6.33
LBP	citrulline	-0.34	4.79	-0.19	1.53	6.33
MB	X_12786	0.23	2.32	0.33	4.00	6.33
LUM	erythritol	0.27	2.99	0.30	3.33	6.33
LRG1	palmitoylcarnitine	-0.34	4.59	-0.21	1.73	6.32
F12	glutamate	0.25	2.74	0.31	3.58	6.32
CST3	p_acetamidophenylglucuronide	0.18	1.53	0.37	4.80	6.32
C4BPA	X_01327	-0.27	3.07	-0.30	3.25	6.32
VASN	four_methyl_2_oxopentanoate	-0.33	4.42	-0.22	1.89	6.32
IGFBP4	kynurenine	0.15	1.21	0.38	5.11	6.32
S100A9	X_14662	0.26	2.81	0.31	3.50	6.31
AFM	X_04495	-0.35	5.06	-0.17	1.25	6.31
PON1	one_stearoyl_GPC	0.27	3.06	0.30	3.25	6.31
ADIPOQ	X_12749	0.35	5.00	0.17	1.31	6.31
CFI	taurochenodeoxycholate	-0.37	5.39	-0.14	0.92	6.31
B2M	three_methyl_2_oxobutyrate	-0.31	4.01	-0.24	2.29	6.31
ICAM2	X_04357	0.33	4.31	0.22	2.00	6.31
FGA	X_14626	0.36	5.31	0.14	0.99	6.30
CES1	malate	0.23	2.35	0.33	3.95	6.30
CFD	four_vinylphenol_sulfate	0.32	4.08	0.24	2.22	6.30
COL1A1	X_11687	0.32	4.28	0.23	2.02	6.30
S100A8	creatine	0.28	3.21	0.29	3.09	6.30
CD14	allantoin	0.24	2.51	0.32	3.79	6.30
BAI2	one_oleoyl_GPC	-0.17	1.46	-0.37	4.84	6.30
APOE	taurocholate	0.29	3.45	0.28	2.85	6.30
PLG	X_12104	-0.12	0.81	-0.39	5.48	6.30
C4B	HPLA	-0.26	2.84	-0.31	3.45	6.29
CST3	X_11490	0.35	5.07	0.16	1.22	6.29
SERPINF1	X_11334	0.22	2.18	0.34	4.12	6.29
SERPINF1	four_acetamidobutanoate	0.23	2.39	0.33	3.90	6.29
S100A9	X_11450	0.26	2.87	0.31	3.43	6.29
LUM	X_03951	0.27	3.17	0.29	3.13	6.29
SAA1	epiandrosterone_sulfate	0.29	3.50	0.27	2.80	6.29
HPR	pipecolate	-0.20	1.78	-0.36	4.52	6.29
C4B	methionine	-0.27	2.98	-0.30	3.31	6.29
AMBP	gamma_glutamylleucine	0.31	4.02	0.24	2.27	6.29
DEFA1	myo_inositol	0.21	2.07	0.34	4.21	6.29
APOL1	X_04498	-0.39	5.95	-0.07	0.34	6.29
LGALS3BP	X_11795	0.26	2.95	0.30	3.33	6.29
HP	X_12786	-0.16	1.28	-0.38	5.00	6.29
ORM1	two_methylbutyroylcarnitine	0.28	3.30	0.28	2.98	6.29
FBLN1	tiglyl_carnitine	0.23	2.26	0.33	4.02	6.28

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
SERPINC1	one_methyladenosine	-0.25	2.76	-0.31	3.53	6.28
PTGDS	X_11421	0.34	4.65	0.20	1.63	6.28
APOA2	one_stearoylglycerol	0.31	3.87	0.25	2.42	6.28
VSIG4	octadecanedioate	0.22	2.19	0.34	4.09	6.28
APOE	X_10500	0.25	2.64	0.32	3.64	6.28
SPINK1	X_12749	0.29	3.54	0.27	2.74	6.28
REG1A	arabinose	0.24	2.57	0.32	3.71	6.28
HP	gamma_glutamyltyrosine	-0.21	2.08	-0.34	4.20	6.28
HRG	X_12855	-0.33	4.45	-0.21	1.83	6.28
CFI	X_12850	-0.30	3.72	-0.26	2.56	6.28
ORM2	alanine	-0.15	1.20	-0.38	5.08	6.28
HAUS6	glycochenodeoxycholate	-0.10	0.67	-0.40	5.61	6.28
DEFA1	p_cresol_sulfate	0.30	3.82	0.25	2.45	6.28
SERPINA1	one_stearoyl_GPC	-0.26	2.91	-0.30	3.37	6.28
CD14	X_11826	0.24	2.47	0.32	3.80	6.28
APOH	threonate	0.29	3.50	0.27	2.77	6.28
F12	malate	0.20	1.89	0.35	4.39	6.27
RBP4	X_04498	0.22	2.18	0.34	4.10	6.27
VASN	phenol_sulfate	0.26	2.97	0.30	3.31	6.27
COL1A1	xylonate	0.34	4.81	0.19	1.47	6.27
B2M	X_10439	0.36	5.09	0.16	1.18	6.27
CLU	X_11302	-0.27	3.09	-0.29	3.18	6.27
LYZ	X_12099	0.39	6.21	0.01	0.06	6.27
F12	X_11786	0.31	3.96	0.24	2.31	6.27
APOL1	X_08402	0.32	4.17	0.23	2.10	6.27
APOA1	X_12802	-0.24	2.47	-0.32	3.80	6.27
F12	glycerate	0.25	2.76	0.31	3.51	6.27
APOA2	X_11421	-0.30	3.82	-0.25	2.44	6.27
A1BG	two_methylbutyroylcarnitine	-0.30	3.70	-0.26	2.57	6.26
HRG	X_04495	-0.29	3.53	-0.27	2.73	6.26
C4A	methionine	-0.27	3.01	-0.30	3.26	6.26
CST3	one_palmitoleoyl_GPC	-0.22	2.20	-0.34	4.07	6.26
CES1	serine	0.27	2.98	0.30	3.28	6.26
AHSG	N_acetylthreonine	-0.31	3.90	-0.25	2.36	6.26
AFM	citrulline	0.34	4.69	0.19	1.57	6.26
AFM	X_03951	-0.31	4.00	-0.24	2.26	6.26
APOC3	X_11826	0.25	2.61	0.32	3.65	6.26
CLU	X_11245	-0.31	4.05	-0.24	2.21	6.26
ORM2	methionine	-0.25	2.63	-0.32	3.63	6.26
TTR	one_stearoylglycerol	0.31	3.84	0.25	2.42	6.25
FGA	malate	-0.26	2.98	-0.30	3.28	6.25
APOA2	one_arachidoyl_GPE	0.24	2.43	0.32	3.82	6.25
ITIH1	two_palmitoyl_GPC	0.26	2.85	0.30	3.40	6.25
ITIH2	X_04499	-0.29	3.58	-0.27	2.67	6.25
ITIH1	X_12458	-0.27	3.11	-0.29	3.13	6.25
TF	X_11429	-0.28	3.39	-0.28	2.86	6.25
RBP4	phosphate	0.25	2.60	0.32	3.64	6.25
ADIPOQ	X_12117	0.31	4.02	0.24	2.23	6.25
ORM1	X_11838	0.28	3.20	0.29	3.04	6.25
B2M	one_palmitoyl_GPC	-0.19	1.76	-0.35	4.49	6.24
S100A8	one_oleoyl_GPC	-0.18	1.54	-0.36	4.71	6.24
APOC3	quinate	0.19	1.64	0.36	4.60	6.24
DEFA1	X_05522	0.19	1.71	0.36	4.53	6.24
A1BG	X_11786	0.34	4.71	0.19	1.53	6.24
ITIH2	one_palmitoleoyl_GPC	0.31	3.89	0.25	2.35	6.24
SAA1	X_11795	-0.26	2.93	-0.30	3.30	6.24

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
LBP	X_11470	0.26	2.80	0.31	3.44	6.24
LCP1	methionine	0.38	5.87	0.07	0.37	6.24
SAA3P	N2_N2_dimethylguanosine	0.30	3.70	0.26	2.54	6.24
ICAM2	hydroxyproline	0.14	1.01	0.38	5.22	6.23
C8G	X_12695	-0.28	3.25	-0.28	2.98	6.23
GC	one_stearoyl_GPC	0.21	1.93	0.35	4.30	6.23
ORM2	X_11244	0.27	3.07	0.29	3.16	6.23
APOH	X_11334	0.31	3.88	0.25	2.35	6.23
HP	glutamine	-0.24	2.58	-0.32	3.65	6.23
S100A9	SDMA	0.25	2.78	0.31	3.46	6.23
LGALS3BP	X_10395	-0.31	3.94	-0.24	2.29	6.23
DEFA1	X_12458	0.14	1.03	0.38	5.20	6.23
VTN	X_12742	-0.23	2.28	-0.33	3.95	6.23
C1QC	glycocholate	0.31	4.01	0.24	2.22	6.23
APOA4	N_acetylornithine	0.31	3.91	0.24	2.32	6.23
TF	X_11255	0.28	3.27	0.28	2.96	6.23
CST3	three_methyl_2_oxovalerate	-0.22	2.13	-0.34	4.10	6.23
GPX3	one_arachidoyl_GPE	-0.16	1.35	-0.37	4.88	6.23
HRG	one_arachidoyl_GPC	0.24	2.56	0.32	3.67	6.22
COL1A1	phenylacetylglutamine	0.36	5.18	0.15	1.04	6.22
C1QC	N_acetylthreonine	0.26	2.82	0.30	3.40	6.22
SERPIND1	allantoin	-0.26	2.96	-0.30	3.26	6.22
GPX3	X_12794	-0.27	3.06	-0.29	3.17	6.22
SHBG	X_11826	-0.26	2.89	-0.30	3.34	6.22
RBP4	X_12101	0.22	2.21	0.33	4.01	6.22
S100A8	isovalerylcarnitine	0.31	3.95	0.24	2.27	6.22
APOA1	one_palmitoleoyl_GPC	0.21	1.96	0.34	4.26	6.22
CD14	taurocholate	0.28	3.24	0.28	2.98	6.22
AMBP	one_methyladenosine	0.38	5.88	0.07	0.34	6.22
APOL1	X_04595	-0.35	5.00	-0.16	1.22	6.22
HPR	gamma_glutamyltyrosine	-0.19	1.64	-0.36	4.58	6.22
FBLN1	creatinine	0.28	3.34	0.28	2.88	6.22
S100A8	one_arachidoyl_GPC	-0.17	1.43	-0.37	4.79	6.22
SERPINA3	X_12802	0.31	3.85	0.25	2.37	6.22
SAA3P	X_11795	-0.27	3.17	-0.29	3.05	6.22
CD14	X_04504	0.26	2.82	0.30	3.39	6.22
CD14	X_11423	0.23	2.30	0.33	3.92	6.22
MB	X_11421	0.28	3.22	0.28	3.00	6.22
SERPINA1	alpha_ketobutyrate	0.21	2.04	0.34	4.17	6.22
AGT	X_12465	0.25	2.64	0.31	3.58	6.22
DEFA1	X_12117	0.20	1.82	0.35	4.39	6.22
SERPINA6	tryptophan	-0.27	3.13	-0.29	3.08	6.21
FCGBP	X_12101	0.18	1.55	0.36	4.66	6.21
AMBP	kynurenine	0.30	3.61	0.26	2.60	6.21
GSN	glutamate	0.30	3.82	0.25	2.39	6.21
SEPP1	taurochenodeoxycholate	-0.24	2.45	-0.32	3.76	6.21
IGFBP4	one_five_anhydroglucitol	-0.39	6.08	-0.03	0.13	6.21
VSIG4	pelargonate	-0.26	2.90	-0.30	3.31	6.21
VASN	HPLA	0.16	1.31	0.37	4.90	6.21
CST3	catechol_sulfate	0.29	3.43	0.27	2.77	6.21
SHBG	androsterone_sulfate	-0.31	3.99	-0.24	2.21	6.21
APOL1	X_11429	-0.37	5.46	-0.12	0.74	6.20
B2M	X_12458	0.34	4.72	0.19	1.49	6.20
COL1A1	arabitol	0.35	5.00	0.16	1.20	6.20
GPX3	p_acetamidophenylglucuronide	-0.29	3.59	-0.26	2.62	6.20
RNASE1	four_methyl_2_oxopentanoate	-0.29	3.54	-0.27	2.66	6.20

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
LCN2	one_methyladenosine	0.31	4.04	0.23	2.16	6.20
LYZ	X_12092	0.38	5.72	0.09	0.48	6.20
FCGBP	SDMA	0.28	3.36	0.28	2.84	6.20
C7	X_12786	0.32	4.14	0.23	2.06	6.20
FGA	glutamate	-0.29	3.51	-0.27	2.69	6.20
LBP	X_11593	0.30	3.68	0.26	2.52	6.20
RBMX	X_13553	0.15	1.19	0.38	5.00	6.20
GPX3	carnitine	0.26	2.91	0.30	3.28	6.19
C7	four_methyl_2_oxopentanoate	-0.28	3.32	-0.28	2.88	6.19
SHBG	X_12442	0.37	5.51	0.11	0.68	6.19
SAA1	one_eicosatrienoyl_GPC	-0.30	3.66	-0.26	2.53	6.19
C1QB	phenylalanine	0.32	4.29	0.22	1.90	6.19
HP	myristoleate	-0.31	3.94	-0.24	2.25	6.19
APOA4	gulono_1_4_lactone	0.31	4.05	0.23	2.13	6.18
CD5L	alpha_hydroxyisovalerate	0.28	3.37	0.27	2.81	6.18
SAA3P	serine	-0.23	2.36	-0.33	3.83	6.18
FCGBP	X_03951	0.24	2.59	0.31	3.59	6.18
APOA2	N_acetylthreonine	-0.28	3.38	-0.27	2.80	6.18
PTGDS	malate	0.26	2.90	0.30	3.28	6.18
PPBP	tryptophan	0.09	0.57	0.40	5.61	6.18
GPX3	one_five_anhydroglucitol	0.28	3.29	0.28	2.88	6.18
B2M	one_stearoyl_GPC	-0.15	1.22	-0.37	4.96	6.18
GC	octadecanedioate	-0.25	2.68	-0.31	3.49	6.18
APCS	citrate	-0.33	4.55	-0.20	1.62	6.17
C8G	X_04498	-0.30	3.72	-0.25	2.46	6.17
S100A9	X_11381	0.36	5.13	0.15	1.04	6.17
S100A8	X_12465	0.32	4.26	0.22	1.91	6.17
FGB	mannose	0.25	2.71	0.31	3.46	6.17
LRG1	serine	-0.18	1.55	-0.36	4.62	6.17
VWF	acetylcarnitine	0.22	2.20	0.33	3.97	6.17
APOC1	glutamate	0.35	4.98	0.16	1.19	6.17
S100A8	one_palmitoleoyl_GPC	-0.25	2.68	-0.31	3.49	6.17
KNG1	X_11273	-0.29	3.40	-0.27	2.77	6.17
SHBG	pyridoxate	-0.32	4.07	-0.23	2.09	6.17
HP	HPLA	-0.22	2.19	-0.33	3.97	6.16
VSIG4	gamma_glutamylphenylalanine	0.28	3.36	0.27	2.81	6.16
S100A8	X_14663	0.20	1.81	0.35	4.35	6.16
SAA1	p_acetamidophenylglucuronide	0.18	1.53	0.36	4.63	6.16
CD14	X_12117	0.22	2.14	0.33	4.02	6.16
ECM1	X_11510	0.23	2.35	0.32	3.81	6.16
SAA3P	X_12742	0.24	2.53	0.32	3.62	6.16
CFD	glutamate	0.38	5.75	0.07	0.40	6.16
ITIH1	two_methylbutyroylcarnitine	-0.20	1.91	-0.34	4.24	6.16
C7	gamma_glutamyltyrosine	0.30	3.79	0.25	2.36	6.15
TTR	one_oleoyl_GPC	0.24	2.49	0.32	3.66	6.15
VWF	uridine	-0.27	3.02	-0.29	3.13	6.15
RBMX	betaine	0.37	5.60	0.09	0.55	6.15
APOA4	hydroxyproline	0.18	1.62	0.36	4.53	6.15
S100A9	erythritol	0.30	3.63	0.26	2.52	6.15
PLG	X_03951	-0.17	1.45	-0.36	4.69	6.15
FN1	two_hydroxypalmitate	0.20	1.79	0.35	4.36	6.15
LRG1	X_11880	-0.27	3.07	-0.29	3.07	6.15
C1QC	one_stearoyl_GPC	-0.15	1.20	-0.37	4.95	6.14
LYZ	X_12749	0.38	5.68	0.08	0.46	6.14
B2M	X_12850	0.30	3.78	0.25	2.37	6.14
CD14	X_03951	0.22	2.11	0.33	4.03	6.14

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
HBA1	X_14588	-0.12	0.82	-0.39	5.32	6.14
C4A	HPLA	-0.26	2.81	-0.30	3.33	6.14
FN1	taurochenodeoxycholate	0.09	0.57	0.40	5.57	6.14
TIMP1	heptanoate	-0.23	2.29	-0.33	3.85	6.14
ORM1	pyridoxate	0.23	2.32	0.32	3.81	6.13
VSIG4	arabinose	0.33	4.31	0.21	1.83	6.13
VASN	X_12850	0.28	3.32	0.27	2.81	6.13
CAT	lysine	0.14	1.08	0.38	5.05	6.13
LUM	gamma_glutamyltyrosine	0.22	2.18	0.33	3.95	6.13
DEFA1	X_12095	0.32	4.09	0.23	2.04	6.13
LBP	X_12990	-0.30	3.82	-0.24	2.31	6.13
AZGP1	alpha_hydroxyisovalerate	-0.30	3.76	-0.25	2.37	6.13
C3	X_13553	-0.13	0.91	-0.38	5.22	6.13
VSIG4	X_04495	0.34	4.71	0.18	1.42	6.13
ITIH2	hexanoylcarnitine	-0.26	2.83	-0.30	3.30	6.12
SERPINC1	beta_hydroxyisovalerate	-0.29	3.40	-0.27	2.72	6.12
C1QC	X_11538	0.26	2.91	0.30	3.21	6.12
SPINK1	one_linoleoyl_GPC	-0.16	1.28	-0.37	4.84	6.12
REG1A	choline	0.16	1.33	0.37	4.79	6.12
SPINK1	three_indoxyl_sulfate	0.19	1.70	0.35	4.42	6.12
TIMP1	N_acetylthreonine	0.19	1.74	0.35	4.38	6.12
CD14	one_eicosatrienoyl_GPC	-0.19	1.64	-0.35	4.48	6.12
FABP1	X_12786	0.26	2.88	0.30	3.24	6.12
VSIG4	X_04595	0.30	3.74	0.25	2.38	6.12
AFP	phenylalanine	0.39	5.96	0.03	0.16	6.12
ABCA13	one_palmitoyl_GPC	0.20	1.81	0.35	4.31	6.12
APOH	X_12206	0.28	3.35	0.27	2.77	6.12
REG1A	X_12855	0.24	2.48	0.32	3.64	6.12
GPX3	erythritol	-0.30	3.71	-0.25	2.41	6.11
PTGDS	X_02973	0.14	1.09	0.38	5.02	6.11
VSIG4	X_12786	0.18	1.52	0.36	4.59	6.11
ADIPOQ	three_indoxyl_sulfate	0.35	5.00	0.15	1.11	6.11
SPINK1	myo_inositol	0.29	3.48	0.26	2.63	6.11
C1QB	octadecanedioate	0.30	3.68	0.25	2.44	6.11
C1QB	X_12644	-0.18	1.53	-0.36	4.58	6.11
SAA4	X_11317	0.08	0.52	0.40	5.59	6.11
IGFBP4	X_12092	0.38	5.92	0.04	0.20	6.11
FN1	X_11880	0.33	4.45	0.20	1.66	6.11
FCGBP	X_11593	0.13	0.96	0.38	5.15	6.11
SAA3P	deoxycarnitine	0.36	5.15	0.14	0.96	6.11
ITIH2	isobutyrylcarnitine	-0.25	2.63	-0.31	3.48	6.11
F2	gulono_1_4_lactone	-0.36	5.09	-0.15	1.02	6.11
LUM	N_acetylthreonine	0.17	1.40	0.36	4.71	6.11
VTN	malate	-0.20	1.82	-0.35	4.29	6.11
LCN2	isobutyrylcarnitine	0.29	3.50	0.26	2.60	6.11
SERPIND1	hexadecanedioate	-0.23	2.29	-0.32	3.81	6.10
APOA4	sucrose	0.28	3.37	0.27	2.73	6.10
SHBG	threitol	-0.32	4.30	-0.21	1.80	6.10
CD14	X_04507	0.24	2.44	0.32	3.66	6.10
MB	one_arachidoyl_GPE	-0.12	0.86	-0.38	5.24	6.10
APOA4	X_12742	0.30	3.75	0.25	2.35	6.10
PIGR	seven_HOCA	0.09	0.54	0.40	5.56	6.10
LBP	hexanoylcarnitine	0.26	2.94	0.29	3.16	6.10
C4B	phenylalanine	-0.32	4.20	-0.22	1.90	6.10
C1QC	X_12095	0.22	2.21	0.33	3.89	6.10
AMBP	X_11787	-0.25	2.69	-0.31	3.41	6.10

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
ABCA13	bilirubin	0.26	2.80	0.30	3.29	6.10
ORM1	bilirubin	-0.33	4.53	-0.19	1.56	6.09
C1QC	one_eicosatrienoyl_GPC	-0.19	1.64	-0.35	4.45	6.09
VTN	X_11437	-0.24	2.56	-0.31	3.53	6.09
ORM2	X_12206	0.18	1.56	0.36	4.53	6.09
VTN	X_12850	-0.27	3.13	-0.28	2.96	6.09
CD14	glycocholate	0.29	3.54	0.26	2.56	6.09
B2M	pelargonate	-0.23	2.29	-0.32	3.80	6.09
B2M	two_methoxyacetaminophen_sulfate	0.14	1.03	0.38	5.06	6.09
ABCA13	glutamate	0.26	2.84	0.30	3.25	6.09
DEFA1	X_03951	0.21	2.00	0.34	4.09	6.09
APOH	X_06126	0.33	4.46	0.20	1.63	6.09
SEPP1	one_stearoyl_GPC	0.35	5.01	0.15	1.07	6.08
SERPIND1	X_04499	-0.30	3.71	-0.25	2.38	6.08
LGALS3BP	bilirubin	0.24	2.55	0.31	3.53	6.08
SPINK1	X_12688	0.28	3.22	0.28	2.86	6.08
HP	proline	-0.18	1.61	-0.35	4.47	6.08
ORM1	X_12695	0.24	2.54	0.31	3.54	6.08
ABCA13	one_palmitoleoyl_GPC	0.26	2.96	0.29	3.12	6.08
KNG1	beta_hydroxyisovalerate	-0.29	3.45	-0.26	2.63	6.08
COL11A2	X_11786	0.17	1.39	0.36	4.69	6.08
C1QA	pseudouridine	0.29	3.52	0.26	2.56	6.08
TIMP1	two_methylbutyroylcarnitine	0.24	2.45	0.32	3.63	6.08
S100A9	one_eicosatrienoyl_GPC	-0.13	0.97	-0.38	5.10	6.08
SERPINF1	X_03056	0.27	3.13	0.28	2.95	6.07
SAA1	X_12644	-0.28	3.32	-0.27	2.76	6.07
CD14	X_11429	0.23	2.34	0.32	3.73	6.07
AGT	tryptophan	-0.24	2.46	-0.32	3.61	6.07
CST3	pelargonate	-0.24	2.52	-0.31	3.55	6.07
SPINK1	X_12217	0.25	2.68	0.30	3.39	6.07
LUM	X_12117	0.28	3.24	0.28	2.83	6.07
APCS	octadecanedioate	-0.34	4.57	-0.19	1.50	6.07
ITIH2	one_arachidoyl_GPE	0.32	4.30	0.21	1.77	6.07
AFM	urea	-0.36	5.21	-0.13	0.86	6.07
CES1	propionylcarnitine	0.32	4.21	0.21	1.86	6.07
A1BG	X_12688	-0.30	3.65	-0.25	2.42	6.07
ECM1	glutamine	0.26	2.90	0.29	3.17	6.07
CRP	X_11273	0.32	4.24	0.21	1.83	6.07
HPR	X_12786	-0.14	1.06	-0.38	5.00	6.07
GSN	citrulline	0.29	3.39	0.27	2.67	6.06
KLKB1	HPLA	-0.34	4.64	-0.18	1.42	6.06
COL1A1	four_acetamidobutanoate	0.33	4.45	0.20	1.61	6.06
ORM1	proline	-0.29	3.59	-0.25	2.47	6.06
APOC3	glutamylvaline	0.35	4.86	0.16	1.20	6.06
LGALS3BP	malate	0.29	3.58	0.26	2.48	6.06
GC	two_methylbutyroylcarnitine	-0.31	4.00	-0.23	2.06	6.06
VSIG4	one_palmitoyl_GPC	-0.20	1.81	-0.34	4.25	6.06
CFHR2	mannose	0.27	3.07	0.28	2.99	6.06
APOA4	X_11826	0.30	3.64	0.25	2.41	6.06
FCGBP	X_12458	0.33	4.53	0.19	1.52	6.05
C7	tyrosine	0.31	4.04	0.23	2.02	6.05
APOA2	tiglyl_carnitine	-0.30	3.71	-0.25	2.35	6.05
SAA3P	X_13429	0.25	2.62	0.31	3.43	6.05
HP	citrulline	-0.18	1.55	-0.36	4.50	6.05
CES1	X_12850	0.16	1.36	0.36	4.69	6.05

gene symbol	metabolite	t0 Pearson Correlation	t0 NegLog10 p-value	t24 Pearson Correlation	t24 NegLog10 p-value	Sum of NegLog10 p-value
GPX3	alpha_ketobutyrate	0.28	3.23	0.27	2.82	6.05
ITIH3	tyrosine	-0.12	0.89	-0.38	5.16	6.05
CST3	one_oleoyl_GPC	-0.23	2.39	-0.32	3.66	6.05
LRG1	mannose	0.22	2.20	0.33	3.85	6.05
GPX3	N2_N2_dimethylguanosine	-0.29	3.58	-0.25	2.46	6.05
SAA3P	X_12117	0.31	3.94	0.23	2.10	6.04
C1QB	gamma_glutamylphenylalanine	0.36	5.17	0.13	0.88	6.04
SAA3P	X_11826	0.28	3.20	0.28	2.85	6.04
APOE	HPLA	0.29	3.43	0.26	2.61	6.04
SHBG	hippurate	-0.23	2.25	-0.32	3.79	6.04
LYZ	X_10483	0.38	5.80	0.05	0.24	6.04
SERPINF1	N_acetylthreonine	0.25	2.71	0.30	3.33	6.04
SERPINF1	X_11687	0.25	2.69	0.30	3.35	6.04
FN1	pipecolate	0.11	0.77	0.39	5.27	6.04
LCP1	acetylcarnitine	0.29	3.60	0.25	2.44	6.04
SERPINF1	X_12405	0.11	0.77	0.39	5.27	6.04
SERPIND1	N_acetylalanine	-0.27	3.00	-0.29	3.04	6.04
APOH	gluconate	0.35	4.88	0.16	1.16	6.04
PLG	one_methylimidazoleacetate	-0.09	0.53	-0.39	5.51	6.04
LUM	X_12206	0.32	4.23	0.21	1.81	6.04
CES1	seven_HOCA	0.11	0.73	0.39	5.31	6.04
COL1A1	hydroxyproline	0.26	2.87	0.29	3.17	6.04
PON1	alpha_hydroxyisovalerate	-0.29	3.59	-0.25	2.45	6.03
AFM	X_12100	-0.29	3.56	-0.25	2.47	6.03
CFD	malate	0.33	4.51	0.19	1.52	6.03
GSN	creatine	-0.26	2.81	-0.30	3.22	6.03
RBP4	one_methylimidazoleacetate	0.22	2.24	0.32	3.79	6.03
LBP	X_11838	0.22	2.13	0.33	3.89	6.03

Table S11. Protein-metabolite correlations of potential novel enzymatic pathways. Pearson Correlation of t_0 metabolites with t_0 proteins

Variable	With	Pearson Correlation	-LOG10 pValue
ACSM6	1- arachidoyl GPC	-0.31	3.95
ACSM6	1- arachidoyl GPE	-0.35	4.82
ACSM6	1- eicosatrienoyl GPC	-0.33	4.55
ACSM6	1- linoleoyl GPC	-0.38	5.83
ACSM6	1- oleoyl GPC	-0.38	5.78
ACSM6	1- oleoyl GPE	-0.22	2.25
ACSM6	1- palmitoleoyl GPC	-0.47	8.74
ACSM6	1- palmitoyl GPC	-0.44	7.83
ACSM6	1- stearoyl GPC	-0.44	7.81
ACSM6	2-methylbutyroylcarnitine	0.32	4.17
ACSM6	2-palmitoyl GPC	-0.36	5.17
ACSM6	4-cis-decenoylcarnitine	0.22	2.24
ACSM6	acetylcarnitine	0.18	1.61
ACSM6	arachidonate	-0.22	2.21
ACSM6	butyrylcarnitine	0.31	3.99
ACSM6	decanoylcarnitine	0.17	1.37
ACSM6	deoxycarnitine	0.25	2.62
ACSM6	eicostrienoate	-0.25	2.62
ACSM6	hydroxyisovaleroylcarnitine	0.28	3.34
ACSM6	isobutyrylcarnitine	0.28	3.26
ACSM6	isovalerylcarnitine	0.18	1.50
ACSM6	octanoylcarnitine	0.23	2.32
ACSM6	palmitoylcarnitine	-0.15	1.15
ACSM6	tiglyl carnitine	0.32	4.24
FABP4	10-heptadecenoate	0.18	1.58
FABP4	2-hydroxypalmitate	0.33	4.50
FABP4	4-cis-decenoylcarntine	0.20	1.83
FABP4	acetylcarnitine	0.23	2.33
FABP4	decanoylcarnitine	0.25	2.72
FABP4	docosahexaenoate	0.19	1.69
FABP4	docosapentaenoate	0.19	1.64
FABP4	eicosenoate	0.19	1.72
FABP4	hexadecanedioate	0.32	4.28
FABP4	hexanoylcarnitine	0.25	2.76
FABP4	laurylcarnitine	0.32	4.15
FABP4	myristate	0.19	1.64
FABP4	myristoleate	0.26	2.89
FABP4	octadecanedioate	0.42	7.06
FABP4	octanoylcarnitine	0.22	2.10
FABP4	palmitoleate	0.21	2.00
FABP4	palmitoylcarnitine	0.35	4.86
FABP4	propionylcarnitine	0.27	3.11
SDHD	acetylcarnitine	0.22	2.14
SDHD	alpha-ketoglutarate	0.14	1.01
SDHD	citrate	0.28	3.38
SDHD	decanoylcarnitine	0.17	1.49
SDHD	lactate	0.24	2.46
SDHD	malate	0.21	1.99
SDHD	oxaloacetate	0.19	1.67
SDHD	pyruvate	0.19	1.74