

**Electronic Supplementary Material**

**New markers for sepsis caused by *Pseudomonas aeruginosa* during burn infection**

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**Online Resource 2 Metabolites identified by their mass spectra (148 out of 532 primary metabolites detected among all groups of sera tested)**

Metabolite	Groups of Mice (n = 3)												P-value	Fisher's LSD test P <0.05							
	Thermally Injured / Infected (B-I)			Thermally Injured / Not Infected (B-NI)			Not Injured / Infected (NB-I)			Sham (NB-NI)				B-I vs B-NI	B-I vs NB-I	B-I vs NB-NI	B-NI vs NB-I	B-NI vs NB-NI	NB-I vs NB-NI		
	B-I 1	B-I 2	B-I 3	B-NI 1	B-NI 2	B-NI 3	NB-I 1	NB-I 2	NB-I 3	NB-NI 1	NB-NI 2	NB-NI 3									
1,3,5-Trimethylcyanuric acid	63789.55	80354.82	71067.53	88730.69	79464.21	75905.37	74746.18	86820.19	48631.03	89338.78	73762.75	95901.18	≥ 0.05								
1-Methylinosine	80088.41	53361.48	23144.61	48635.75	47737.88	29221.47	95072.26	49741.07	36399.83	98060.53	38599.61	13107.35	≥ 0.05								
1-Monoolein	6274.58	6706.64	12758.14	12530.94	7309.34	13433.33	18934.96	21689.17	12819.75	20068.37	2898.37	14255.19	≥ 0.05								
2-Deoxy-D-ribitol	1756.13	1791.75	2075.46	1863.49	2394.83	1041.70	2640.00	2180.84	1708.50	1925.95	1803.63	1476.90	≥ 0.05								
2-Hydroxybutyric acid	33628.65	30610.99	180316.85	31767.01	25414.83	37666.81	35803.92	41278.60	26613.06	33281.06	37221.93	27830.14	≥ 0.05								
2-Hydroxyglutaric acid	1540.45	1554.74	1847.46	1643.12	1221.98	1110.55	1800.69	2068.47	885.33	2436.40	1145.15	1639.50	≥ 0.05								
3,4-Dihydroxybutyric acid	2963.16	2931.96	2343.17	3947.34	2919.85	2364.78	3201.89	4053.89	2621.90	2385.35	2870.59	3365.60	≥ 0.05								
<b>3,6-Anhydro-D-galactose<sup>a</sup></b>	696.52	1017.31	1073.87	1981.16	1802.26	1507.67	2224.38	1345.44	1790.71	1949.51	1796.43	1743.41	0.0016	***	***	***					
3-Aminoisobutyric acid	27604.38	19655.64	2906.05	15652.44	13807.09	23954.10	25819.94	25775.31	23848.79	38959.76	13860.10	17288.84	≥ 0.05								
3-Hydroxybutyric acid	93644.75	32849.46	88176.10	43185.42	56269.19	261041.50	63524.42	82187.86	69494.96	68634.32	43791.36	41628.31	≥ 0.05								
<b>3-Phosphoglycerate</b>	2843.45	4609.60	6710.90	1669.86	1073.58	314.31	1281.16	349.79	824.17	457.44	451.68	411.80	0.0028	***	***	***			†	†	
3-Ureidopropionate	3279.76	3569.85	5057.86	786.26	1718.34	2922.55	2809.48	1886.74	853.25	1195.62	2627.77	1309.48	≥ 0.05								
4-Hydroxybutyric acid	10321.10	10925.11	8165.45	8536.53	8420.78	7311.85	13825.45	8986.18	11746.93	8888.63	9352.55	7991.60	≥ 0.05								
<b>4-Methylbenzenesulfonamide</b>	3722.01	2615.94	2336.04	1509.40	2011.04	1654.35	1994.37	2184.75	2319.11	1671.71	1751.16	1746.30	0.0221	†	†	†	†			†	
5-Methoxytryptamine	15594.43	31281.07	9595.58	22324.41	33857.10	45025.56	95137.83	38534.96	58024.76	61952.39	32592.98	71135.48	≥ 0.05								
<b>5-Oxoproline</b>	1234375.10	1368105.65	1537910.37	996585.19	1083531.75	680929.21	630935.62	964068.80	705864.33	896723.42	1064958.64	910062.51	0.0102	†	†	†	†			†	
Alanine	1627042.71	1523757.04	2274044.95	2378012.73	2163086.45	1531809.52	2117831.25	2228189.26	2154259.53	2490158.99	2008341.26	1539426.87	≥ 0.05								
Allantoic acid	30642.73	64991.78	39370.67	5795.47	38752.17	38920.05	28536.61	42219.62	21159.71	42271.77	43014.55	53957.28	≥ 0.05								
α-Aminoadipic acid	1756.13	2437.45	1106.44	2255.01	1357.07	774.29	2222.36	1396.24	1142.01	2307.80	421.84	1642.39	≥ 0.05								
α-Ketoglutarate	8746.02	11885.85	3359.01	5990.55	368.43	835.16	3933.27	2657.65	2615.89	3459.25	4742.13	2099.41	≥ 0.05								
<b>α-Tocopherol<sup>b</sup></b>	3450.92	4293.58	2243.41	2118.09	2361.05	7170.17	12931.66	9808.88	7226.02	15531.29	6002.51	9151.96	0.0380		†	†	†		†		
Altrose	3373650.47	3421104.90	3259423.31	3832180.48	4294798.63	4176549.32	1559239.88	4206973.74	5167129.54	2225878.71	3777378.54	4693674.57	≥ 0.05								
Aminomalate	7439.06	11670.29	8725.29	11670.29	12053.96	7131.25	5345.57	12828.05	9714.58	10369.90	1077.24	9608.98	≥ 0.05								
Arabitol	7402.46	5529.37	4190.62	13426.31	14587.97	3955.27	10713.33	9919.29	6666.55	10046.94	7226.88	8693.01	≥ 0.05								
Arachidic acid	5468.24	7963.89	3410.92	8286.21	7330.83	9100.90	13077.93	8793.70	7843.65	7807.86	5214.38	6865.89	≥ 0.05								
Arachidonic acid	71683.73	60474.85	46344.19	117389.04	62931.72	201118.84	211089.99	155744.22	69578.18	158382.45	130788.64	173567.72	≥ 0.05								
Asparagine	9298.09	8518.88	12733.71	14521.50	14521.50	11713.13	14253.33	14096.30	12820.75	6340.32	11558.48	12253.92	≥ 0.05								
Aspartate (aspartic acid)	137703.32	102453.77	28145.47	85780.35	106517.55	58105.68	41595.37	75759.91	40304.11	54114.11	47481.96	50658.08	≥ 0.05								
Benzoate (benzoic acid)	38273.73	35751.19	32242.44	77709.16	101418.82	54194.31	41114.18	15073.38	29052.49	71549.75	49000.60	7970.44	≥ 0.05								
β-Alanine	100598.03	105217.96	64645.71	101030.57	99454.86	84285.86	89404.88	95246.50	65757.12	98794.79	82834.41	110750.98	≥ 0.05								
β-Glutamic acid	8543.20	8467.18	9272.91	7975.98	8746.23	5417.04	6317.03	8668.63	6181.27	6613.22	8142.59	9908.20	≥ 0.05								
β-Glycerolphosphate	727.19	948.06	364.40	1034.44	1032.64	940.92	4716.09	1090.42	2111.56	871.68	1730.58	1352.78	≥ 0.05								
β-Sitosterol	7226.35	7343.56	7710.46	5260.98	10618.08	4525.01	5793.47	5561.53	11310.78	6495.42	4967.45	4245.00	≥ 0.05								
Butane-2,3-diol NIST	31881.42	32653.41	22356.77	18139.31	34155.95	20662.37	20685.21	31427.70	16097.38	33017.00	26916.63	33032.48	≥ 0.05								
Capric acid	4846.92	5612.27	4188.59	4898.34	4694.47	6025.69	4447.75	4735.90	3590.45	5017.09	4311.02	5446.72	≥ 0.05								
<b>Cholesterol</b>	790575.91	875427.11	822959.95	464204.25	639882.09	363877.40	360934.41	331040.73	590957.82	642072.88	348764.89	290661.19	0.0267	†	†	†			†		
cis-Aconitate (cis-aconitic acid)	2236.96	1467.93	1177.69	1869.91	2913.70	1775.08	3635.67	1926.80	3281.64	1759.07	1672.97	2141.74	≥ 0.05								
cis-Gondoic acid	640.12	453.55	647.37	983.09	548.58	1613.44	1528.31	993.69	985.59	756.83	856.03	1202.69	≥ 0.05								
Citrate (citric acid)	50354.91	50961.10	25590.58	64049.64	23319.87	59791.95	55586.26	37430.87	34528.90	63562.26	30282.11	27944.64	≥ 0.05								
Citramalate (citramalic acid)	1696.77	3757.12	2416.45	2167.19	1941.45	2205.13	2615.79	2503.27	1994.25	4236.70	1717.21	4043.91	≥ 0.05								
Citrate (citric acid)	407931.60	308266.23	249750.68	331761.82	339414.36	206875.13	519894.25	380377.29	335815.10	425426.99	413552.69	427153.48	≥ 0.05								
Citrulline	20378.03	21457.15	23435.72	13933.37	29772.60	19325.32	22787.52	23762.53	23080.76	33075.90	19747.37	32750.90	≥ 0.05								
<b>Conductril-β-epoxide<sup>b</sup></b>	2115.27	1546.94	1073.87	3173.92	3128.62	2132.29	2115.43	1587.75	1336.52	3413.11	2644.23	2664.19	0.0214	†	†	†	†			†	
<b>Creatinine</b>	133923.93	109158.46	94295.61	67029.94	49951.56	49666.31	25412.39	43008.03	19770.05	39409.35	61717.60	32960.32	0.0019	†	†	†	†	†	†	†	†
Cysteine	3860.52	3848.81	6697.67	5771.25	5404.73	1247.25	3269.48	2948.82	1671.40	6171.48	6505.63	4216.13	≥ 0.05								
Dodecanol	2002.48	2235.55	1779.26	1897.72	1928.14	1748.14	2536.09	2239.46	1903.01	1813.06	1681.20	1956.05	≥ 0.05								
ε-Caprolactam	6898.87	7272.35	4974.39	8021.98	5608.40	5998.75	4338.80	5811.66	3521.27	10004.73	5445.88	6389.63	≥ 0.05								
Ethanolamine	119940.19	121894.83	125178.16	172456.07	145088.57	122710.00	179325.26	137133.82	95208.66	145556.09	194609.28	153974.53	≥ 0.05								

