

Supporting Information

Synovial fluid metabolites differentiate between septic and non-septic joint pathologies

James R Anderson¹, Marie M Phelan^{2,3}, Peter D Clegg¹, Mandy J Peffers^{1*} and Luis M Rubio-Martinez^{4*}

¹Institute of Ageing and Chronic Disease, University of Liverpool, Liverpool, UK

²Institute of Integrative Biology, University of Liverpool, Liverpool, UK

³HLS Technology Directorate, University of Liverpool, Liverpool, UK

⁴Institute of Veterinary Science, University of Liverpool, Leahurst Campus, UK

*corresponding authors

Corresponding authors email addresses

Mandy J Peffers	peffs@liverpool.ac.uk	Tel: 07872692102
Luis M Rubio-Martinez	luis.rubiomartinez@hotmail.com	Tel: 07903389609
	lrubio@liverpool.ac.uk	

Contents

Table S1. Statistically significant differentially abundant peaks between septic and non-septic equine synovial fluid.

Table S1. Statistically significant differentially abundant peaks between septic and non-septic equine synovial fluid. T-test, $p < 0.05$.

Metabolite	Pattern File PEAK Number	PEAK Number	p value	Fold Change	Mean Fold Change	Median Fold Change
2-HYDROXYGLUTARATE	207	1	4.09E-06	0.61	0.61	0.61
3-HYDROXY-3-METHYLGLUTARATE	183	1	0.00723	1.56	1.56	1.56
3-HYDROXYBUTYRATE	188	1	0.00207	1.42	1.42	1.42
ACETATE	236	1	0.01926	2.32	2.32	2.32
AGMATINE	148	1	0.00388	1.26	1.26	1.26
ALANINE	262	1	0.00510	1.74	1.74	1.74
ALANINE	263	2	0.00400	1.75		
BIOTIN	209	1	0.00005	0.57	0.71	0.73
BIOTIN	210	2	0.00390	0.77		
BIOTIN	211	3	0.02578	0.82		
BIOTIN	267	4	0.00244	0.70		
CITRATE	171	1	0.00051	1.88	3.75	4.13
CITRATE	172	2	0.00011	3.49		
CITRATE	175	3	0.00014	4.76		
CITRATE	176	4	0.00011	4.86		
CREATINE PHOSPHATE	60	1	0.02617	1.23	1.26	1.26
CREATINE PHOSPHATE	61	2	0.00196	1.29		
CREATININE	53	1	0.00598	1.35	1.60	1.60
CREATININE	149	2	5.75E-06	1.84		
GLUCOSE	39	1	0.00247	1.93	1.88	1.91
GLUCOSE	40	2	0.00109	2.04		
GLUCOSE	41	3	0.00313	1.97		
GLUCOSE	42	4	0.00800	1.93		
GLUCOSE	65	5	0.01642	1.69		
GLUCOSE	66	6	0.00436	1.82		
GLUCOSE	68	7	0.01392	1.69		
GLUCOSE	69	8	0.00466	1.84		
GLUCOSE	70	9	0.03247	1.49		
GLUCOSE	71	10	0.00210	1.70		
GLUCOSE	72	11	0.00173	1.64		
GLUCOSE	73	12	0.00149	1.89		
GLUCOSE	74	13	0.00303	1.80		
GLUCOSE	75	14	0.00509	1.75		

GLUCOSE	80	15	0.00055	1.85		
GLUCOSE	81	16	0.00009	1.84		
GLUCOSE	83	17	0.00012	1.76		
GLUCOSE	84	18	0.00014	1.71		
GLUCOSE	85	19	0.00104	1.85		
GLUCOSE	86	20	0.00127	1.91		
GLUCOSE	87	21	0.00209	1.85		
GLUCOSE	88	22	0.00183	1.93		
GLUCOSE	89	23	0.00208	1.81		
GLUCOSE	102	24	0.00173	1.87		
GLUCOSE	103	25	0.00115	1.94		
GLUCOSE	104	26	0.00254	1.87		
GLUCOSE	105	27	0.00129	1.91		
GLUCOSE	106	28	0.00234	1.88		
GLUCOSE	107	29	0.00168	1.95		
GLUCOSE	108	30	0.00163	1.98		
GLUCOSE	109	31	0.00133	2.00		
GLUCOSE	110	32	0.00153	2.00		
GLUCOSE	111	33	0.00128	2.05		
GLUCOSE	112	34	0.00137	2.02		
GLUCOSE	113	35	0.00135	2.05		
GLUCOSE	114	36	0.00115	1.95		
GLUCOSE	115	37	0.00150	1.95		
GLUCOSE	116	38	0.00056	2.06		
GLUCOSE	117	39	0.00110	2.00		
GLUCOSE	118	40	0.00037	2.02		
GLUCOSE	119	41	0.00097	1.98		
GLUCOSE	132	42	0.00010	1.98		
GLUCOSE	133	43	0.00101	1.93		
GLUCOSE	134	44	0.00255	1.69		
GLUCOSE-6-PHOSPHATE	58	1	0.00119	1.37		
GLUCOSE-6-PHOSPHATE	129	2	0.00784	1.36	1.38	1.37
GLUCOSE-6-PHOSPHATE	130	3	0.00227	1.41		
GLUTAMATE	197	1	0.01746	1.29	1.29	1.29
GLUTAMINE	180	1	0.00037	1.66		
GLUTAMINE	181	2	0.00018	1.69	1.34	1.5
GLUTAMINE	182	3	0.04998	1.33		
GLUTAMINE	219	4	0.00001	0.66		
GLYCINE	101	1	0.00091	1.53	1.53	1.53

GLYCYLPROLINE	232	1	0.00017	0.77	0.66	0.66
GLYCYLPROLINE	233	2	7.46E-06	0.54		
HISTIDINE	143	1	0.00353	1.31	1.28	1.28
HISTIDINE	144	2	0.00079	1.25		
LEUCINE	244	1	0.00824	1.27	1.25	1.25
LEUCINE	246	2	0.04653	1.23		
N-ACETYLCYSTEINE	222	1	0.00011	0.65	0.65	0.65
N-ISOVALEROYLGLYCINE	304	1	0.00224	0.80	0.80	0.80
N-PHENYLACETYLGLYCINE	10	1	0.00180	0.55	0.55	0.55
PHENYLALANINE	4	1	0.00291	1.42	1.46	1.49
PHENYLALANINE	5	2	0.00344	1.49		
PHENYLALANINE	6	3	0.00413	1.49		
PI-METHYLHISTIDINE	137	1	0.02448	0.74	0.72	0.74
PI-METHYLHISTIDINE	139	2	0.02026	0.77		
PI-METHYLHISTIDINE	140	3	0.02210	0.66		
PYRUVATE	189	1	0.01229	1.53	1.53	1.53
TYROSINE	21	1	0.01954	1.23	1.45	1.49
TYROSINE	22	2	0.00066	1.41		
TYROSINE	28	3	0.00001	1.58		
TYROSINE	29	4	0.00003	1.57		
VALINE	203	1	0.01526	0.83	1.14	1.21
VALINE	204	2	0.00804	0.82		
VALINE	295	3	0.00179	1.40		
VALINE	296	4	0.00143	1.40		
VALINE	299	5	0.03166	1.19		
VALINE	300	6	0.01854	1.23		