

Supplementary materials

Table S1. Identified metabolite average values (Avg.) and standard deviations (St. dev.) in maternal hair samples of Fetal Growth Restriction (FGR) case and control groups. Values given as relative abundance normalized by internal standard. Only metabolites generating statistically significant scores ($p < 0.01$) are presented.

Metabolite	FGR Case		Control		Class
	Avg.	St. dev.	Avg.	St. dev.	
NADP_NADPH	0.56	1.09	0.04	0.02	Cofactors
Palmitate (C16_0)	12.39	6.66	4.53	3.94	Saturated fatty acids
2-Methyloctadecanoate	5.08	3.66	1.86	0.94	
Myristate (C14_0)	2.72	1.32	1.05	0.78	
Margarate (C17_0)	0.76	0.39	0.34	0.21	
Stearate (C18_0)	23.17	15.63	12.22	9.93	
Dodecanoate (C12_0)	2.28	1.54	1.21	0.93	
Octanoate (C8_0)	1.63	1.03	0.94	0.65	
Heptadecane	6.97	6.23	2.25	1.84	Others
Nicotinamide	7.47	6.47	2.51	1.84	
3-Hydroxybenzoate	0.84	0.30	1.10	0.40	
Levulinic acid	0.53	0.29	0.70	0.25	
1-Aminocyclopropane-1-carboxylate	5.09	2.50	6.75	2.19	
Citraconate	10.03	3.97	18.32	6.17	
Lactate	2.32	1.27	4.65	2.05	
Glycine	705.66	126.35	836.14	185.05	Amino acids
Proline	490.94	127.65	644.87	178.90	
Isoleucine	15.08	1.94	20.71	4.78	
Serine	14.99	5.13	22.86	12.74	
Leucine	94.08	11.90	144.74	36.69	
Glutamate	51.02	10.11	79.46	24.06	
Phenylalanine	47.23	6.25	74.94	19.57	
Alanine	207.36	34.75	329.71	94.81	
Valine	84.55	11.46	140.65	43.98	
Aspartic acid	88.72	13.73	149.53	35.03	
Threonine	38.49	22.30	72.19	29.08	
Tyrosine	5.56	4.09	11.69	10.16	
Methionine	0.39	0.08	1.14	1.58	
Lysine	0.85	0.72	3.10	3.15	
Pyroglutamate	14.90	10.35	23.93	14.28	Amino acid derivatives
Ornithine	11.77	9.00	34.30	23.76	Amino acid derivatives
Glutathione	3.33	1.58	7.37	3.28	Antioxidants