

Table S4. Differential metabolites of mitochondria between control and model groups.

ID	Identification	Formula	MS Fragments	MS Fragments m/z	Retention time(min)	MS/MS Fragments(m/z)	Error(ppm)
1	Glycerophosphocholine	C ₈ H ₂₀ NO ₆ P	[M+H]	258.1117	0.95	166.0607, 184.0748	6.3
2	Deoxyguanosine	C ₁₀ H ₁₃ N ₅ O ₄	[M+H]	268.1047	0.95	193.0609, 188.0928	2.59
3	Thymidine	C ₁₀ H ₁₄ N ₂ O ₅	[M+H-H ₂ O]	225.0889	0.98	162.0563, 164.0713, 165.0766, 170.0821, 180.0669, 183.0874, 208.0620	7.88
4	L-carnitine	C ₇ H ₁₅ NO ₃	[M+H-H ₂ O]	144.1029	2.16	128.0709, 130.0881, 142.0868,	6.03
5	Carnosine	C ₉ H ₁₄ N ₄ O ₃	[M+H]	227.1129	1.05	143.0589, 152.0579, 167.0830, 185.0934, 194.0915	-4.25
6	Guanine	C ₅ H ₅ N ₅ O	[M+H]	152.0559	1.07	136.0404, 136.0622, 138.0569,	4.76
7	Pantothenic acid	C ₈ H ₁₇ NO ₅	[M+H]	220.118	1.07	156.1022, 175.1197, 188.0915, 170.0832	3.92
8	Glycylleucine	C ₈ H ₁₆ N ₂ O ₃	[M+H]	189.1243	1.22	153.1038, 154.0867, 173.0934, 187.1087	4.73
9	GSSG	C ₂₀ H ₃₂ N ₆ O ₁₂ S ₂	[M+Na]	635.1421	1.09	169.0614, 187.0731, 201.0889, 266.0763	1.54
10	1-methylnicotinamide	C ₇ H ₉ N ₂ O	[M+Na]	160.0617	1.38	136.0626, 143.0583, 144, 0416	7.44
11	Hypoxanthine	C ₅ H ₄ N ₄ O	[M+H]	136.0394	1.46	119.0343, 137.0469, 159.0283	6.76
12	NADP	C ₂₁ H ₂₈ N ₇ O ₁₇ P ₃	[M+Na]	766.0589	14.61	186.0780, 290.0414,	-7.73
13	Coenzyme Q10	C ₅₉ H ₉₀ O ₄	[M+Na]	885.6699	14.61	613.4166, 751.5706	-3.8
14	Lysine	C ₆ H ₁₄ N ₂ O ₂	[M+H]	146.1063	2.14	132.1027, 130.0879, 129.1035, 128.0711, 127.0855	5.27
15	Phenylalanine	C ₉ H ₁₁ NO ₂	[M+H]	166.0868	2.14	164.0727, 150.0926, 146.0615	3.59
16	Guanosine	C ₁₀ H ₁₃ N ₅ O ₅	[M+H]	284.1008	2.17	202.0721, 220.0831, 152.0576	6.39
17	Adenosine	C ₁₀ H ₁₃ N ₅ O ₄	[M+H]	268.1056	2.22	235.0737, 180.0752, 165.0673	5.73
18	Gamma-linolenyl carnitine	C ₂₅ H ₄₃ NO ₄	[M+H-H ₂ O]	404.315	6.7	349.2348, 333.2318, 277.2178	-2.26