

Table 2S Top 10 pathways involved in distinguishing nonsaponification Asta (N-Asta) and saponification Asta (S-Asta) pretreated groups

Pathway	Total	Hits	-LOG(p)	Impact	compounds	pathway	links
D-Glutamine and D-glutamate metabolism	5	1	1.367	1	C00025	rno00471	http://www.kegg.jp/pathway/rno00471+C00025
alpha-Linolenic acid metabolism	9	1	0.88771	1	C06427	rno00592	http://www.kegg.jp/pathway/rno00592+C06427
Synthesis and degradation of ketone bodies	5	2	3.5496	0.6	C01089; C00164	rno00072	http://www.kegg.jp/pathway/rno00072+C01089+C00164
Phenylalanine, tyrosine and tryptophan biosynthesis	4	1	1.5623	0.5	C00082	rno00400	http://www.kegg.jp/pathway/rno00400+C00082
Retinol metabolism	17	2	1.376	0.47938	C00473; C00777	rno00830	http://www.kegg.jp/pathway/rno00830+C00473+C00777
beta-Alanine metabolism	19	2	1.2172	0.44444	C00099; C00106	rno00410	http://www.kegg.jp/pathway/rno00410+C00099+C00106
Glutathione metabolism	26	4	2.8767	0.43034	C00051; C00025; C01879; C00077	rno00480	http://www.kegg.jp/pathway/rno00480+C00051+C00025+C01879+C00077
Taurine and hypotaurine metabolism	8	2	2.6315	0.42857	C00245; C05122	rno00430	http://www.kegg.jp/pathway/rno00430+C00245+C05122
Thiamine metabolism	7	1	1.0853	0.4	C00378	rno00730	http://www.kegg.jp/pathway/rno00730+C00378
Histidine metabolism	15	3	3.0053	0.25269	C00025; C03680; C00785	rno00340	http://www.kegg.jp/pathway/rno00340+C00025+C03680+C00785