

Table S1. Chemicals and enzymes in each metabolic pathway type.

1. Carbohydrate metabolism

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2. Energy metabolism

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3. Lipid metabolism

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4. Nucleotide metabolism

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5. Amino acid metabolism

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6. Metabolism of other amino acids

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CID000000239	CID000000186	CID000011128	CID056928068	CID000162204

CID000092753	CID000001123	CID000006406	CID000105024	CID006337958
CID000001174	CID000072886	CID000440104	CID000001090	CID014647097
CID000006274	CID000107812	CID000161355	CID000025076	CID000007405
CID000000868	CID000160226	CID000656516	CID000147004	CID000449517
CID000001102	CID001549097	CID000441467	CID049787000	CID000115098
CID000000119	CID000006058	CID000008794	CID000001089	CID000440667
CID000000867	CID000068340	CID000005961	CID000441455	CID000065523
CID000000649	CID053297338	CID000023327	CID000440764	CID024892797
CID000000118	CID000007866	CID000449538	CID053297413	CID011020241
CID000001103	CID000068759	CID000145815	CID000091580	CID000065359
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CID000076406	CID000439167	CID000071082	CID000006267	CID004369587
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ENSP00000367893	ENSP00000301522	ENSP00000225740	ENSP00000338964	ENSP00000233714
ENSP00000254663	ENSP00000298510	ENSP00000293217	ENSP00000292823	ENSP00000010404
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ENSP00000282276	ENSP00000265462	ENSP00000242592	ENSP00000260585	ENSP00000226299
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ENSP00000377192				

7. Glycan biosynthesis and metabolism

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CID024892715	CID000165007	CID024892739	CID000151104	CID005280700

CID024892719	CID000449538	CID000445070	CID000010214	CID000644109
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CID000445675	CID000000175			
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ENSP00000417764	ENSP00000169298	ENSP00000355632	ENSP00000322300	ENSP00000266031
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ENSP00000307423	ENSP00000376472	ENSP00000259056	ENSP00000364902	ENSP00000223026
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ENSP00000420037	ENSP00000294064	ENSP00000225276	ENSP00000302728	ENSP00000362207
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8. Metabolism of cofactors and vitamins

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CID000447277	CID000092094	CID000005960	CID057339263	CID000065074
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CID005280413	CID005462210	CID000165490	CID000439251	CID000446357
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CID005280516	CID046942369	CID000440474	CID000196427	CID015775275
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CID000119412	CID000643975	CID000006912	CID005280816	CID046174034
CID000439833	CID000006830	CID014080393	CID005280817	CID023657843
CID000000321	CID000643976	CID000446013	CID000026818	CID053297369
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CID000129297	CID000114935	CID000000711	CID005280819	CID011953882
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ENSP00000295453	ENSP00000302108	ENSP00000362525	ENSP00000318631	ENSP00000288014
ENSP00000363965	ENSP00000313377	ENSP00000362549	ENSP00000306606	ENSP00000370718
ENSP00000327557	ENSP00000218758	ENSP00000272065	ENSP00000256997	ENSP00000323036

9. Metabolism of terpenoids and polyketides

CID000644066	CID000010582	CID000441005	CID016667385	CID000189062
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CID009549320	CID000173183	CID000073145	CID009855795	CID023724518
CID009549326	CID000115196	CID000259846	CID005460659	CID000443709
CID000643820	CID011988279	CID000092097	CID011241545	CID000443710
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CID000010402	CID023724581	CID005281517	CID056928117	CID006436726
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CID005280651	CID000449093	CID000092155	CID005459948	CID000439250
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ENSP00000261296				

10. Biosynthesis of other secondary metabolites

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11. Xenobiotics biodegradation and metabolism

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