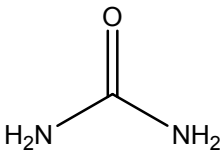
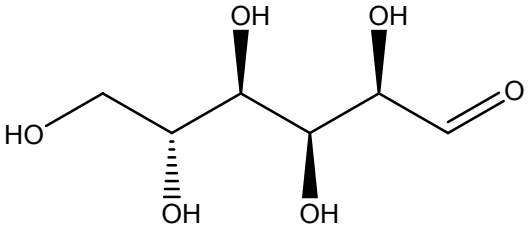
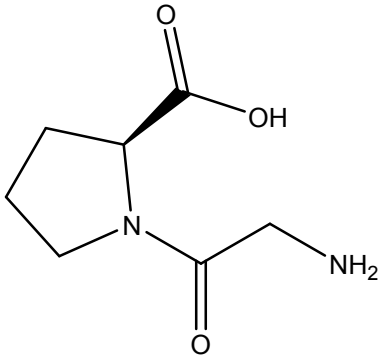
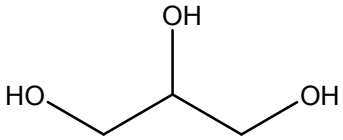
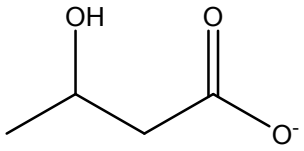
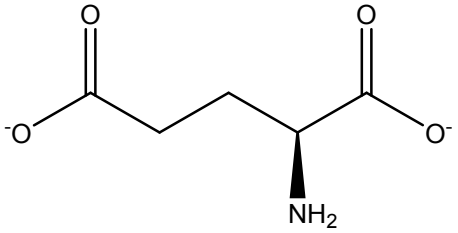
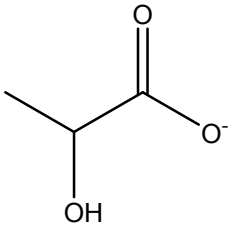
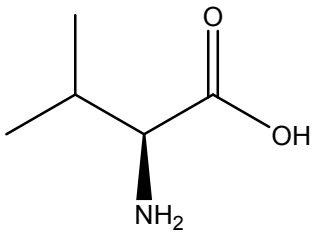
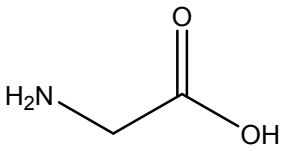
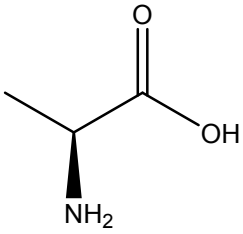
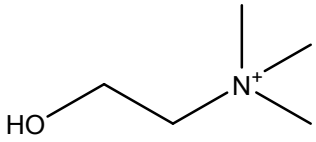
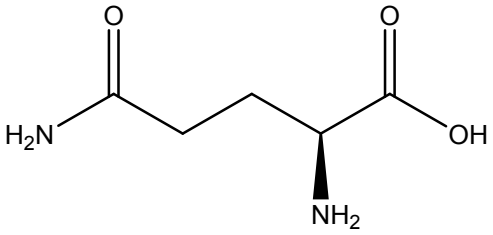
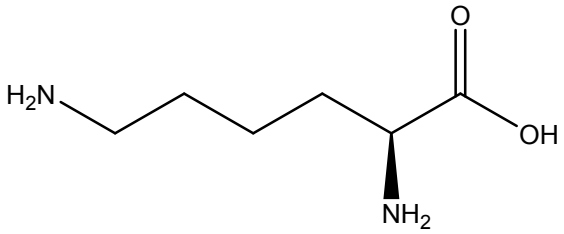
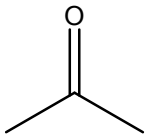
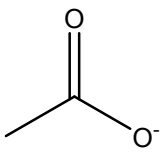
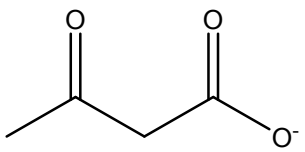
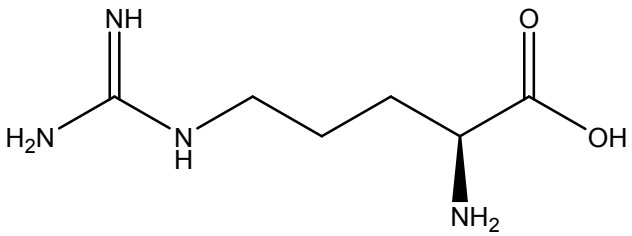
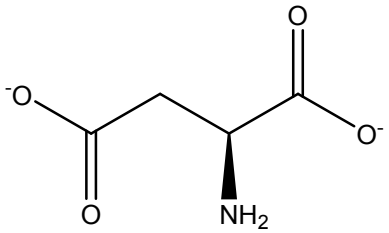
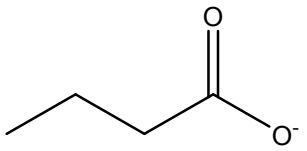
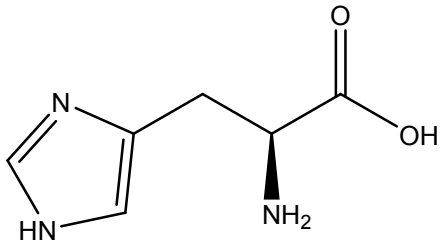
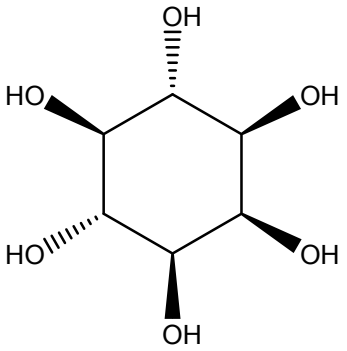
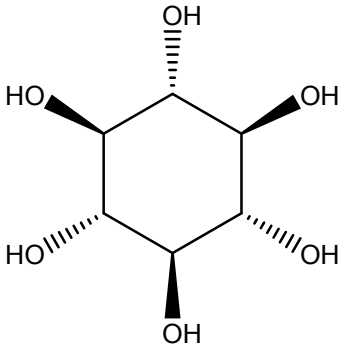
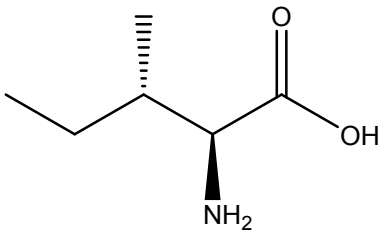
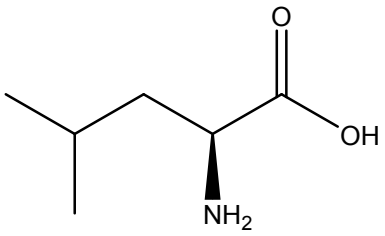
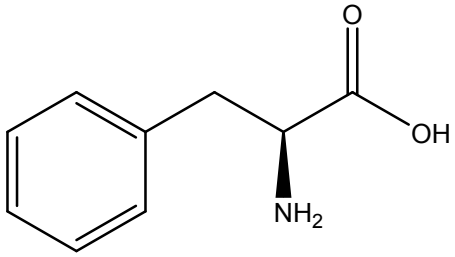
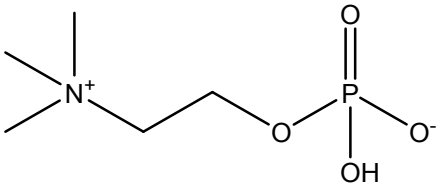
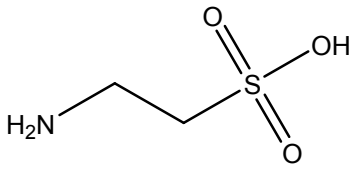
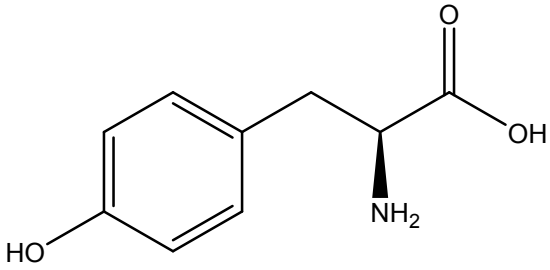
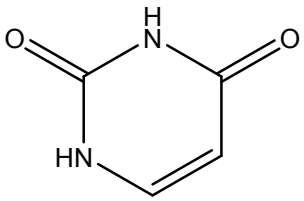
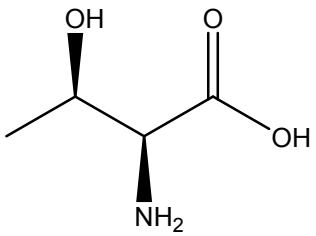
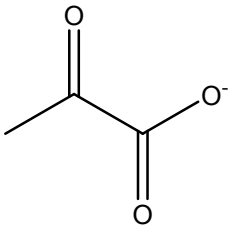
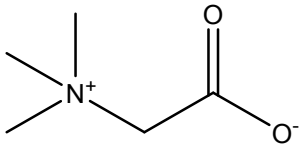
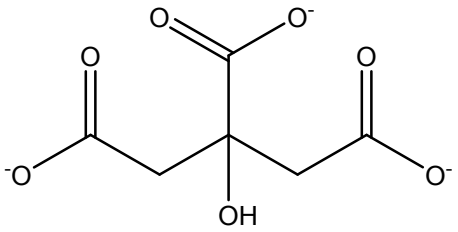
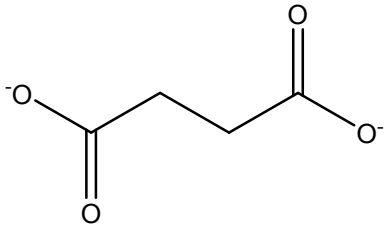
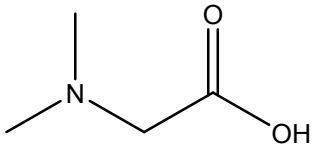
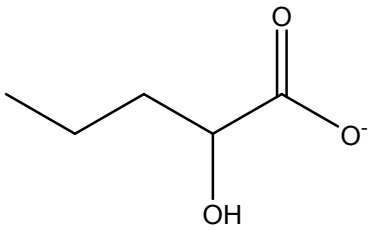
Supplementary Table 1 Signal Identification of differentially significant metabolites

Metabolites	1H chemical shift (multiplicity)	structure
urea	5.77(s)	
glucose	3.44(m),3.48(m),3.76(m),3.88(dd), 3.69(m),5.21(d),3.71(dd)	
glycylproline	3.91(s),3.88(s)	
glycerol	3.63(q),3.78(m),3.55(q)	
3-Hydroxybutyrate	2.38(ddq),1.20(d)	
glutamate	3.75(m),2.08(m),2.34(m)	
lactate	4.10(q),1.31(d)	

valine	3.63(d),1.02(d), 2.27(m), 0.99(d),1.05(d),0.97(d)	
glycine	3.573(s)	
alanine	1.48(d),3.78(q)	
choline	3.21(s),4.05(t)	
glutamine	2.44(m),2.14(m),3.77(m)	
lysine	3.71(t), 1.72(m),1.92(m), 3.03(t),3.76(t),1.48(m)	
acetone	2.23(s)	
acetate	1.90(s)	
acetoacetate	2.27(s)	

arginine	1.68(m),1.92(m),3.23(t),3.78(t)	
aspartate	2.68(dd),2.79(dd),3.89(dd)	
butyrate	0.90(t),1.55(m),2.18(t)	
glycerophosphorylcholine	3.22(s),3.68(t),4.32(t)	
glycogen	3.4-3.9(m),5.38-5.45(m)	
histidine	7.07(s),7.78(s),3.25(dd),3.20(dd),4.00(dd)	
myo-inositol	4.06(t),3.53(dd),3.29(t)	
scyllo-inositol	3.35(s)	

isoleucine	0.94(t),1.01(d),3.67(d),1.98(m)	
leucine	0.95(d),0.97(d),1.72(m),3.75(t)	
phenylalanine	3.98(dd),3.26(dd),3.13(dd),7.41(m),7.38(m),7.31(m)	
phosphorylcholine	3.22(s),3.61(t),4.19(t)	
triglycerides	0.87(t),1.29(m)	
taurine	3.27(t),3.43(t)	
tyrosine	6.87(d),7.17(d),3.05(dd),3.15(dd) 3.93(dd)	
uracil	5.81(d),7.54(d)	

threonine	1.32(d),3.58(d),4.25(m)	
pyruvate	2.36(s)	
betaine	3.27(s),3.89(s)	
citrate	2.54(d),2.56(d),2.67(d),2.69(d)	
succinate	2.41(s)	
dimethylglycine	2.93(s),3.72(s)	
2-hydroxyvalerate	0.90(t),1.73(m),3.99(q)	

Key: s, singlet; d, doublet; t, triplet; q, quartet; m, multiplet; dd, doublet of doublet.