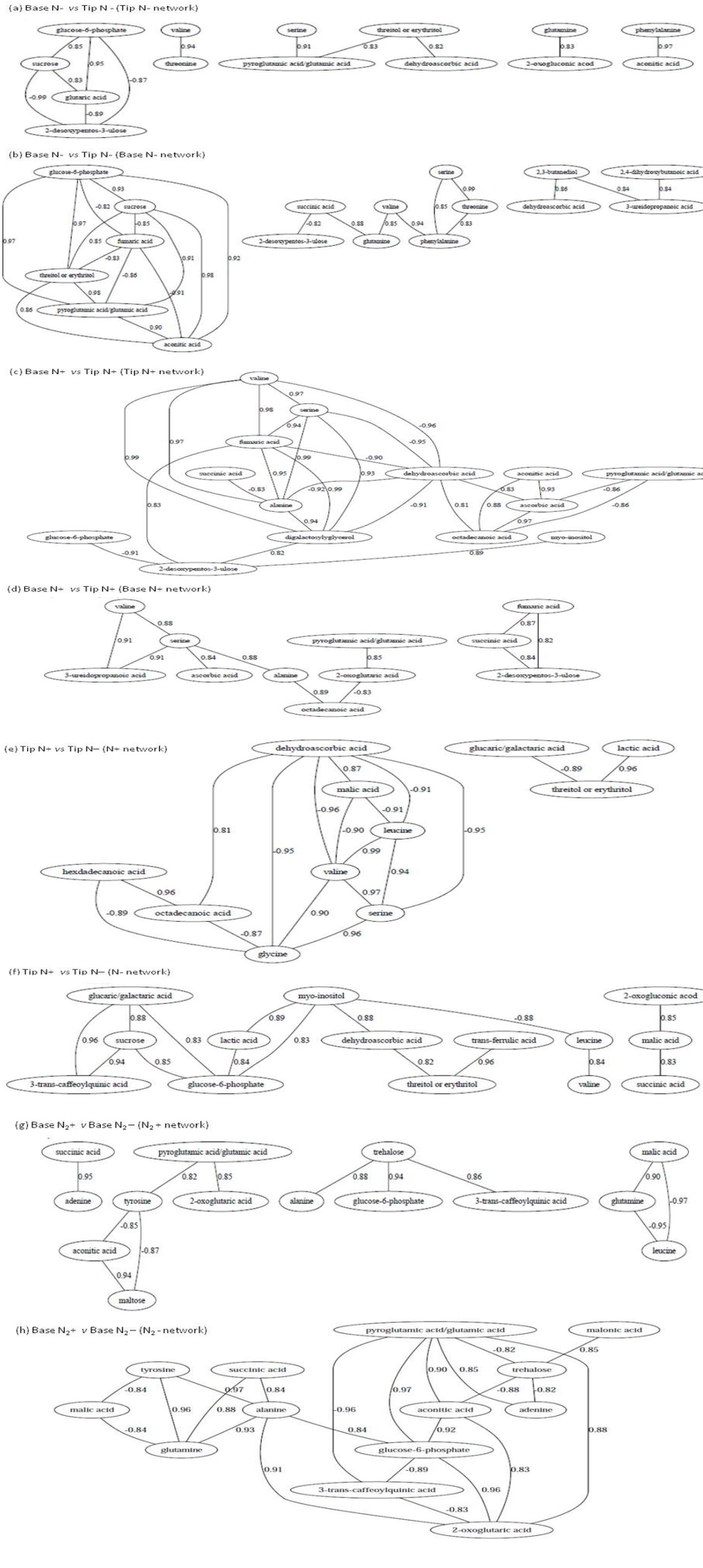
Figure S2


(a) Base N- vs Tip N - (Tip N- network)
glucose-6-phosphate
valine
serine
threitol or erythritol
glutamine
phenylalanine
sucrose
threonine
pyroglutamic acid/glutamic acid
dehydroascorbic acid
2-oxogluconic acod
aconitic acid
glutaric acid
2-desoxypentos-3-ulose
(b) Base N- vs Tip N- (Base N- network)
glucose-6-phosphate
serine
2,3-butanediol
2,4-dihydroxybutanoic acid
sucrose
succinic acid
valine
threonine
dehydroascorbic acid
3-ureidopropanoic acid
fumaric acid
2-desoxypentos-3-ulose
glutamine
phenylalanine
threitol or erythritol
pyroglutamic acid/glutamic acid
aconitic acid
(c) Base N+ vs Tip N+ (Tip N+ network)
valine
serine
fumaric acid
succinic acid
dehydroascorbic acid
aconitic acid
pyroglutamic acid/glutamic acid
alanine
ascorbic acid
glucose-6-phosphate
digalactosylglycerol
octadecanoic acid
myo-inositol
2-desoxypentos-3-ulose
(d) Base N+ vs Tip N+ (Base N+ network)
valine
fumaric acid
serine
pyroglutamic acid/glutamic acid
succinic acid
3-ureidopropanoic acid
ascorbic acid
alanine
2-oxoglutaric acid
2-desoxypentos-3-ulose
octadecanoic acid
(e) Tip N+ vs Tip N– (N+ network)
dehydroascorbic acid
glucaric/galactaric acid
lactic acid
malic acid
threitol or erythritol
leucine
hexadecanoic acid
valine
octadecanoic acid
serine
glycine
(f) Tip N+ vs Tip N– (N- network)
glucaric/galactaric acid
myo-inositol
2-oxogluconic acod
sucrose
lactic acid
dehydroascorbic acid
trans-ferrulic acid
leucine
malic acid
3-trans-caffeoylquinic acid
glucose-6-phosphate
threitol or erythritol
valine
succinic acid
(g) Base N2+ v Base N2– (N2 + network)
succinic acid
pyroglutamic acid/glutamic acid
trehalose
malic acid
adenine
tyrosine
2-oxoglutaric acid
alanine
glucose-6-phosphate
3-trans-caffeoylquinic acid
glutamine
aconitic acid
leucine
maltose
(h) Base N2+ v Base N2– (N2 - network)
pyroglutamic acid/glutamic acid
malonic acid
tyrosine
succinic acid
trehalose
malic acid
alanine
aconitic acid
adenine
glutamine
glucose-6-phosphate
3-trans-caffeoylquinic acid
2-oxoglutaric acid