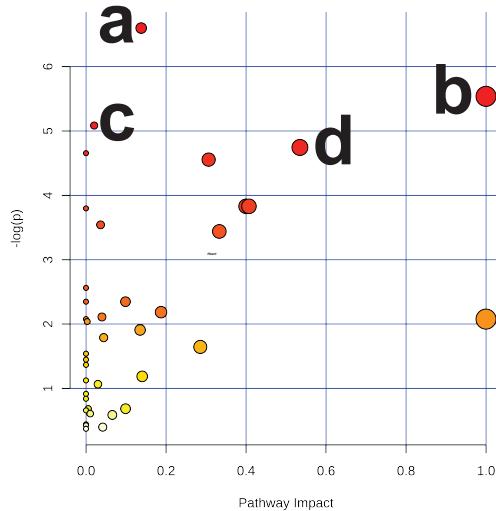
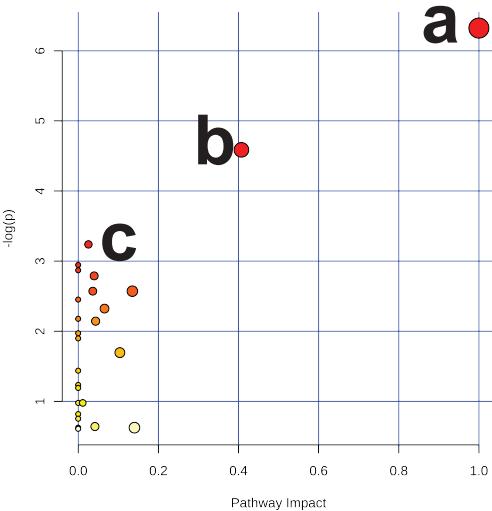


A Heart



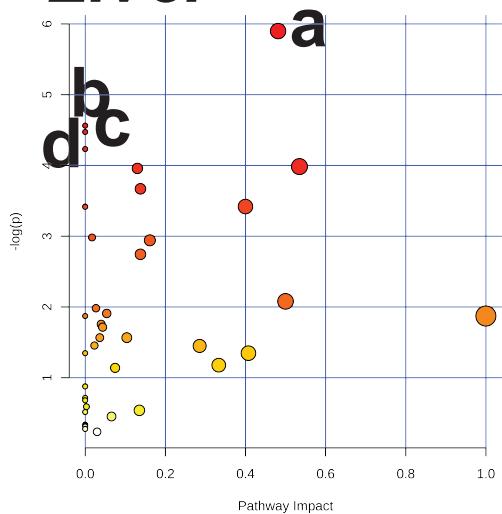
- a.** Aminoacyl-tRNA biosynthesis (Threonine, Tyrosine, Phenylalanine, Serine, Glycine, Lysine, Valine)
- b.** Phenylalanine, tyrosine and tryptophan biosynthesis (Phenylalanine, Tyrosine)
- c.** Pantothenate and CoA biosynthesis (Valine, Uracil, Pantothenic acid)
- d.** Glycine, serine and threonine metabolism (Serine, Glycine, Threonine, Pyruvate)

B Brain



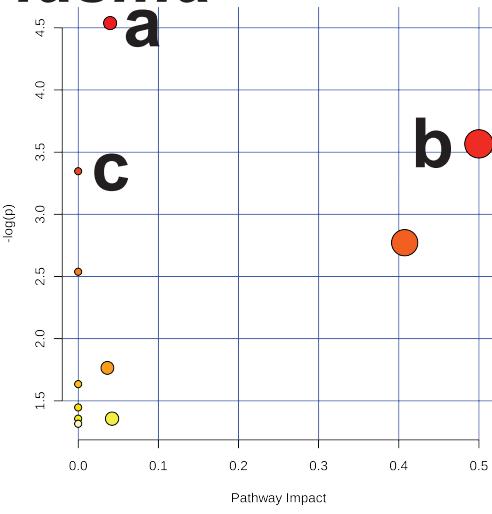
- a.** Phenylalanine, tyrosine and tryptophan biosynthesis (phenylalanine, tyrosine)
- b.** Phenylalanine metabolism (Phenylalanine, Tyrosine)
- c.** Glycerolipid metabolism (Propylene Glycol, Glycerol 3 phosphate)

C Liver



- a.** Beta-Alanine metabolism (Beta alanine, Uracil, Spermidine, Acrylyl co A)
- b.** Biosynthesis of unsaturated fatty acids (Linoleic acid, Arachidonic acid, palmitic acid, Stearic acid, Docosahexaenoic acid)
- c.** Pantothenate and CoA biosynthesis (Valine, uracil, Beta Alanine)

D Plasma



- a.** Starch and sucrose metabolism (Glucose, Fructose)
 - b.** Phenylalanine, tyrosine and tryptophan biosynthesis (Phenylalanine)
 - c.** Biotin metabolism (Lysine)
- (Other pathways involved have a p value > 0.05)

Supplemental Figure 5.