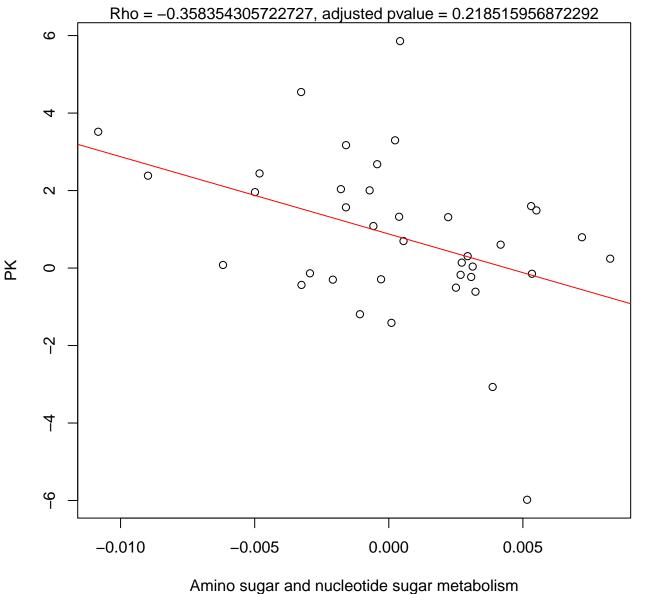
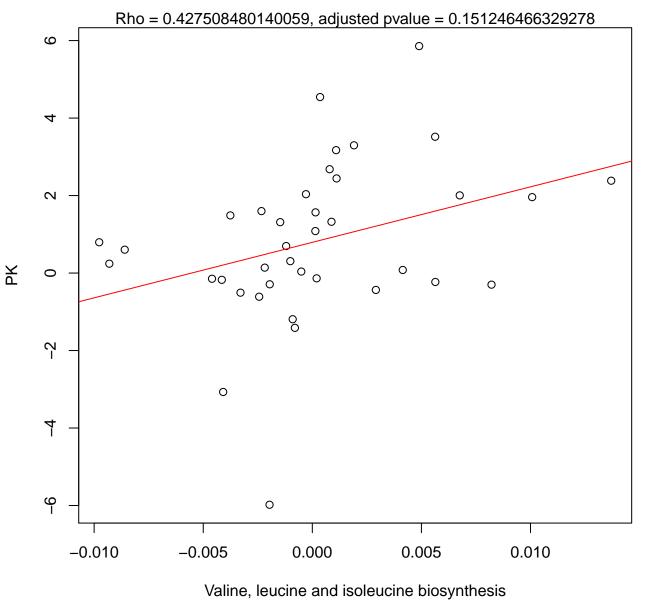
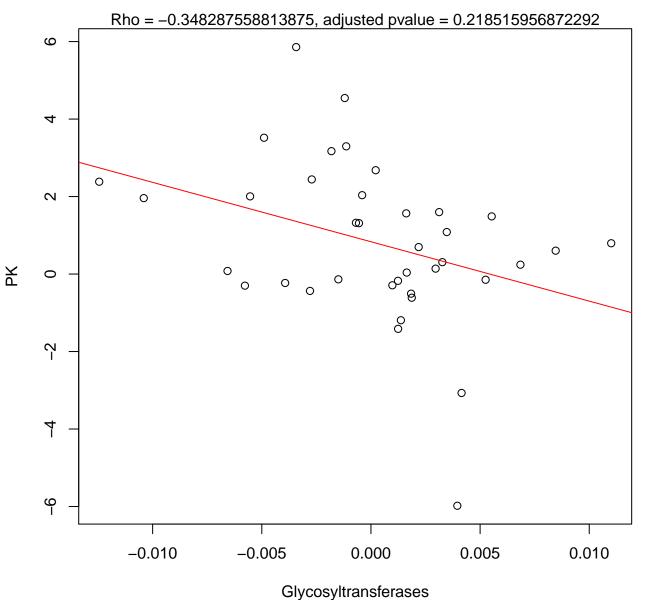
# Group B, Delta PK ~ Delta Amino sugar and nucleotide sugar metabolism



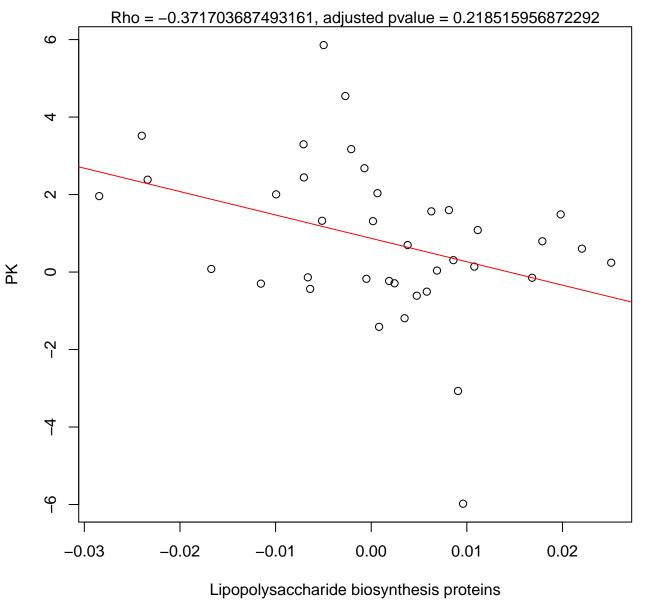
## **Group B, Delta PK ~ Delta Valine, leucine and isoleucine biosynthesis**



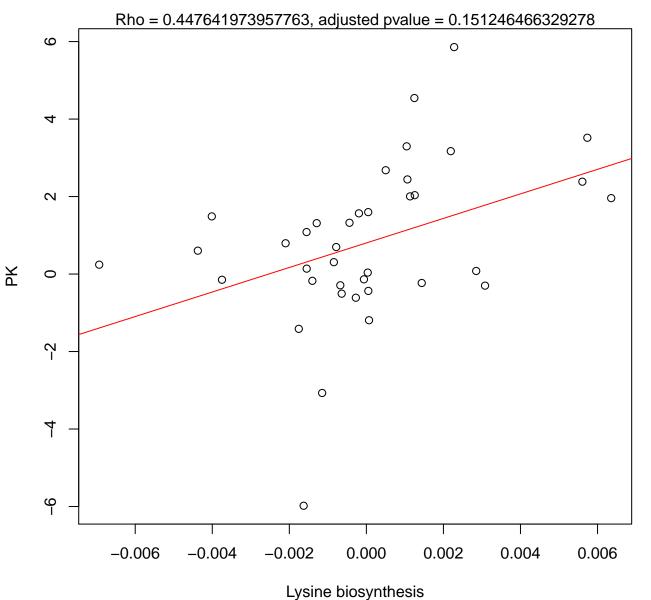
#### **Group B, Delta PK ~ Delta Glycosyltransferases**



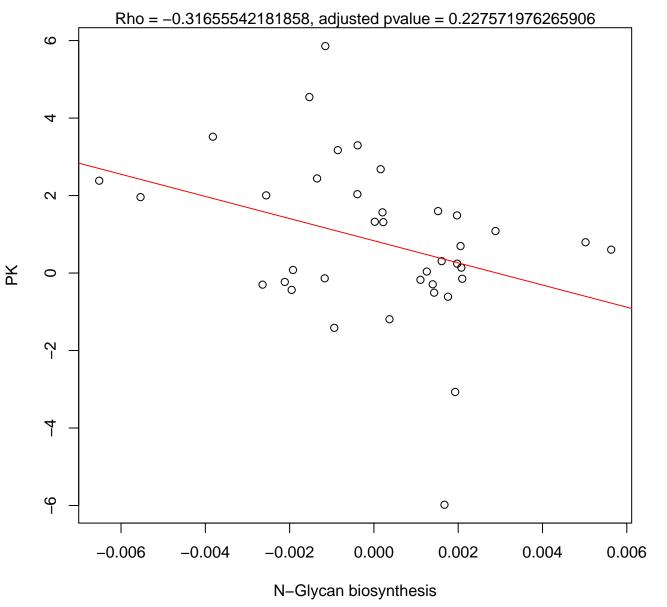
## **Group B, Delta PK ~ Delta Lipopolysaccharide biosynthesis proteins**



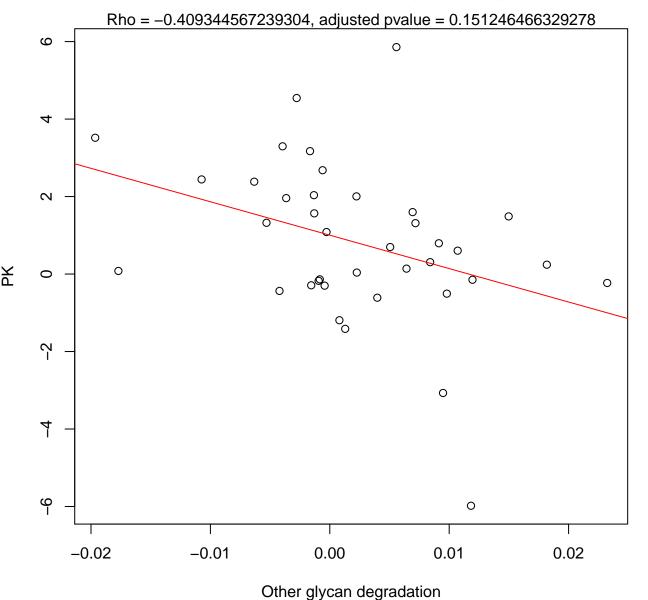
#### **Group B, Delta PK ~ Delta Lysine biosynthesis**



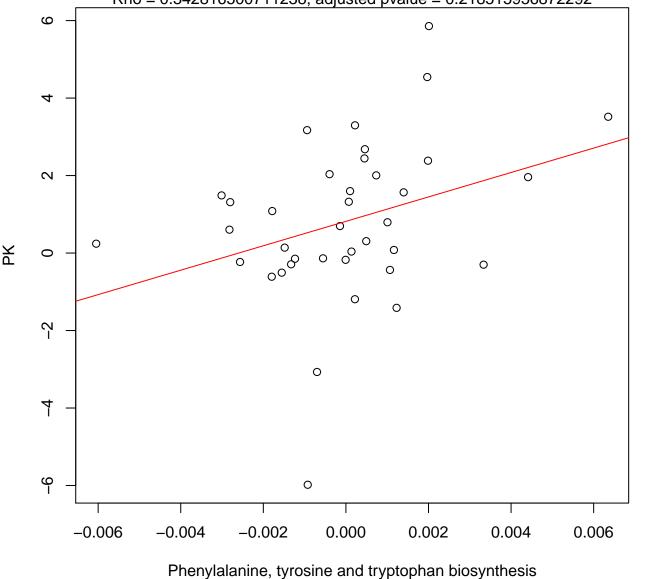
## **Group B, Delta PK ~ Delta N-Glycan biosynthesis**



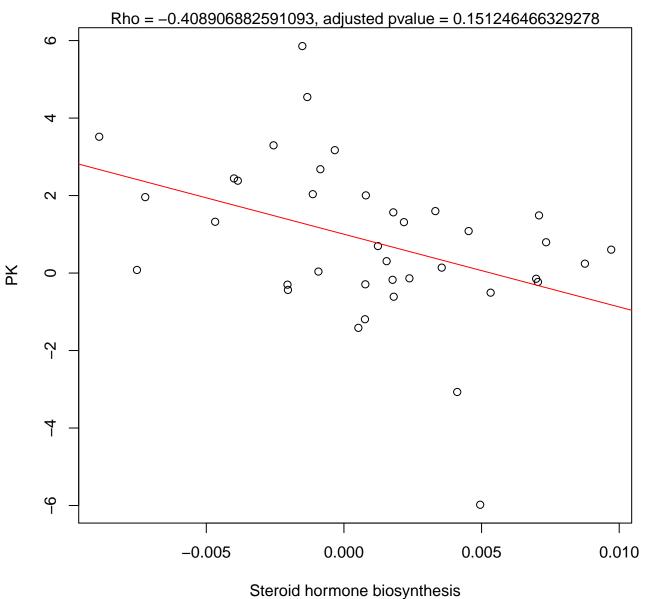
#### **Group B, Delta PK ~ Delta Other glycan degradation**



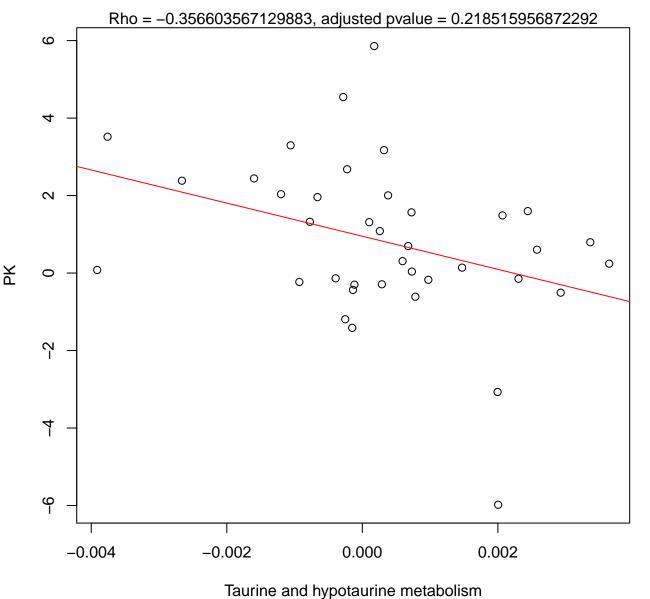
Group B, Delta PK ~ Delta Phenylalanine, tyrosine and tryptophan biosynthe Rho = 0.342816500711238, adjusted pvalue = 0.218515956872292



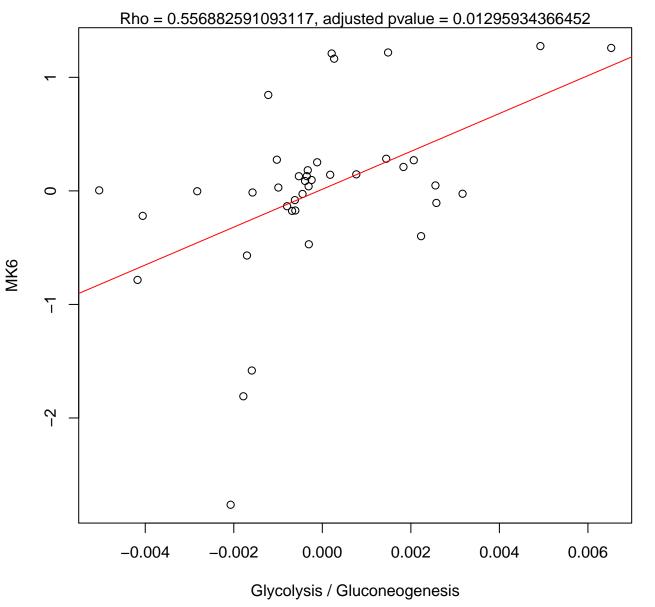
## **Group B, Delta PK ~ Delta Steroid hormone biosynthesis**



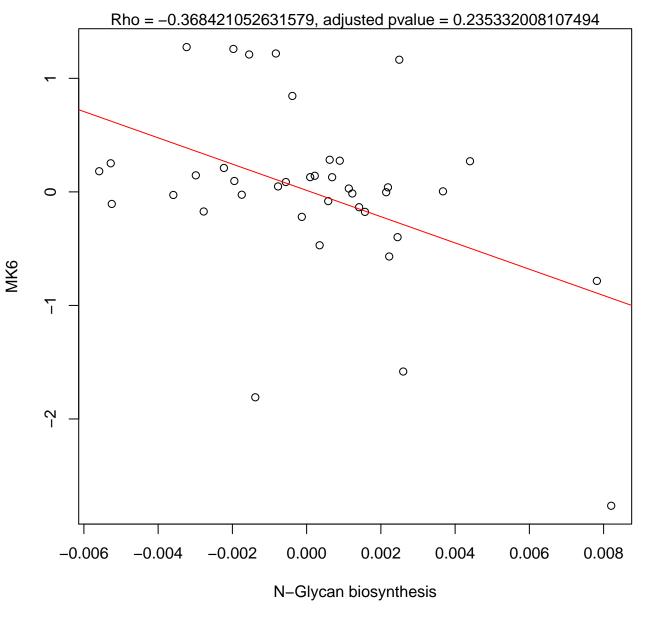
## Group B, Delta PK ~ Delta Taurine and hypotaurine metabolism



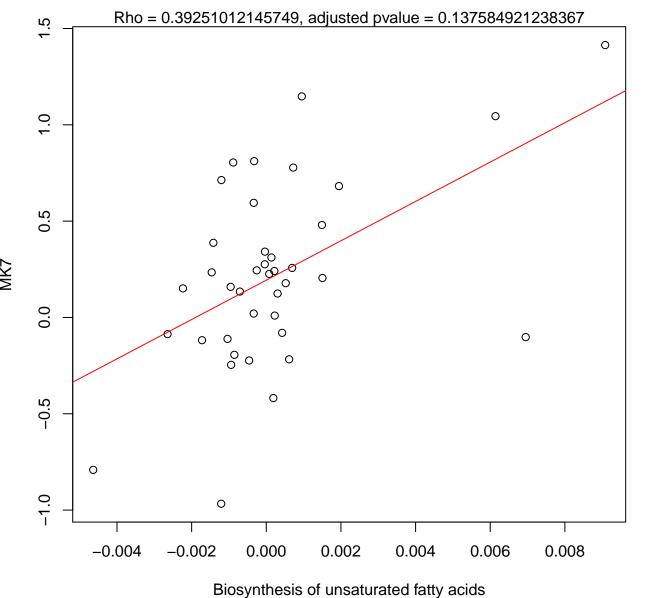
## **Group A, Delta MK6 ~ Delta Glycolysis / Gluconeogenesis**



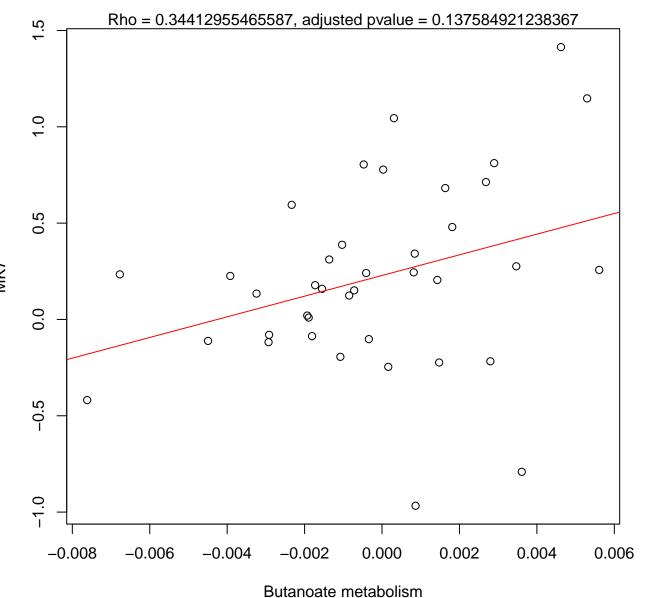
#### **Group A, Delta MK6 ~ Delta N-Glycan biosynthesis**



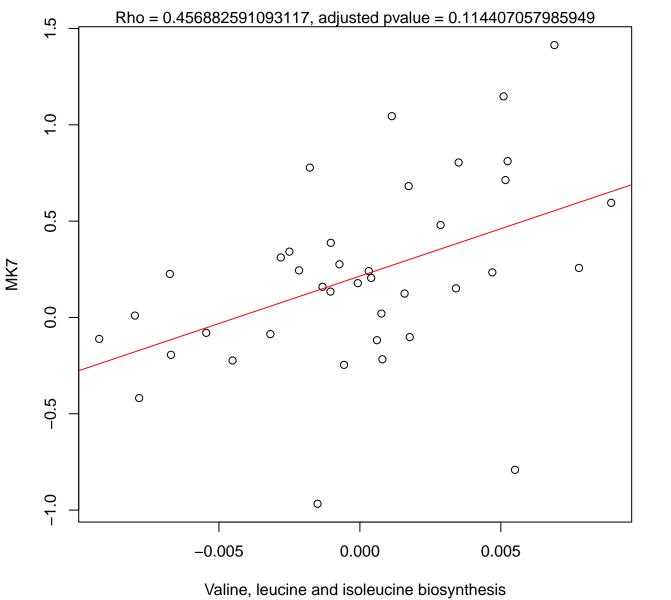
## Group A, Delta MK7 ~ Delta Biosynthesis of unsaturated fatty acids



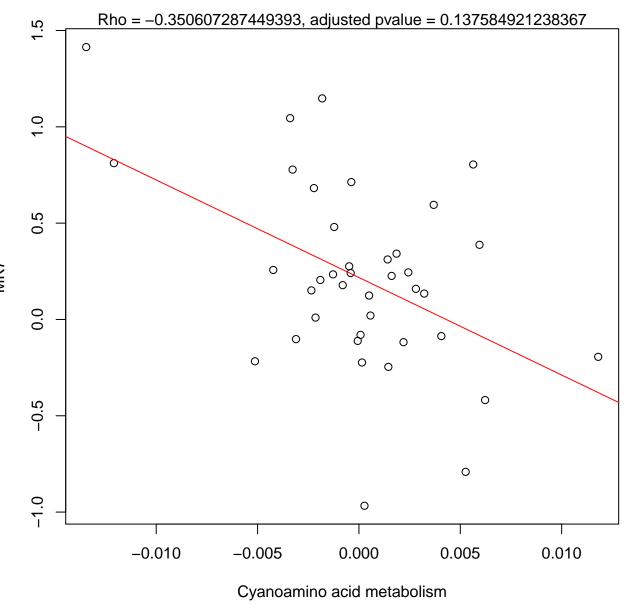
#### Group A, Delta MK7 ~ Delta Butanoate metabolism



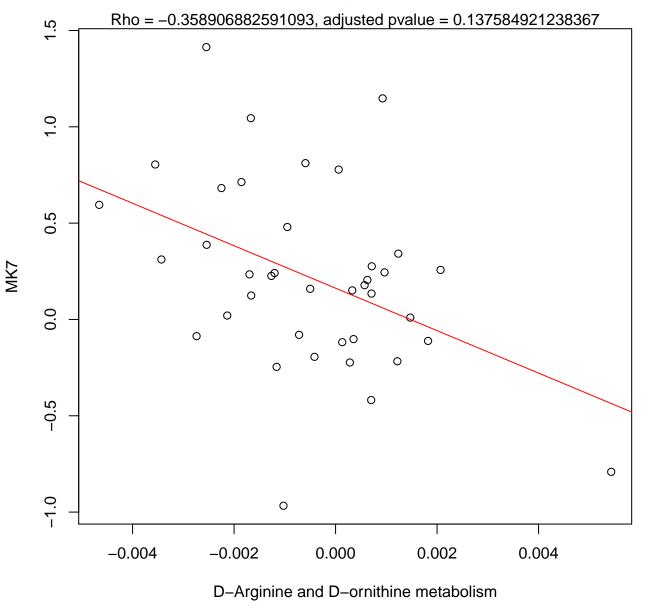
## Group A, Delta MK7 ~ Delta Valine, leucine and isoleucine biosynthesis



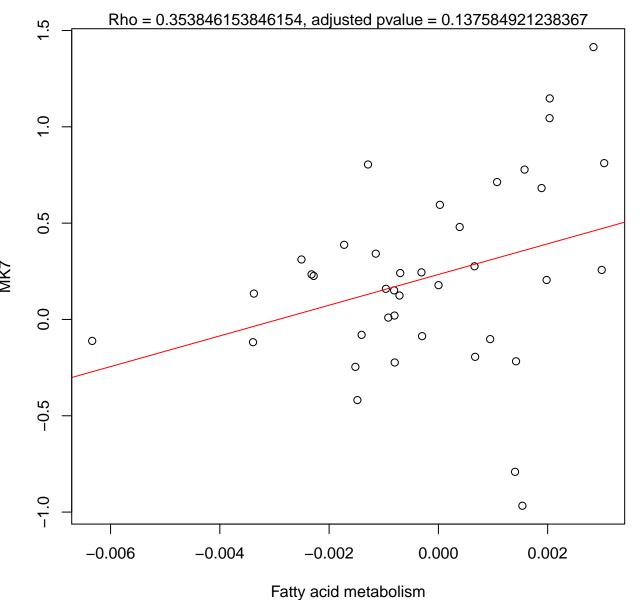
#### Group A, Delta MK7 ~ Delta Cyanoamino acid metabolism



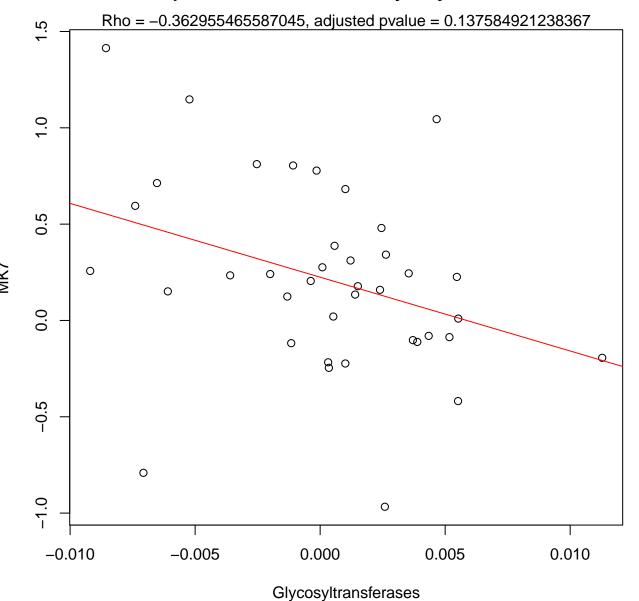
## Group A, Delta MK7 ~ Delta D-Arginine and D-ornithine metabolism



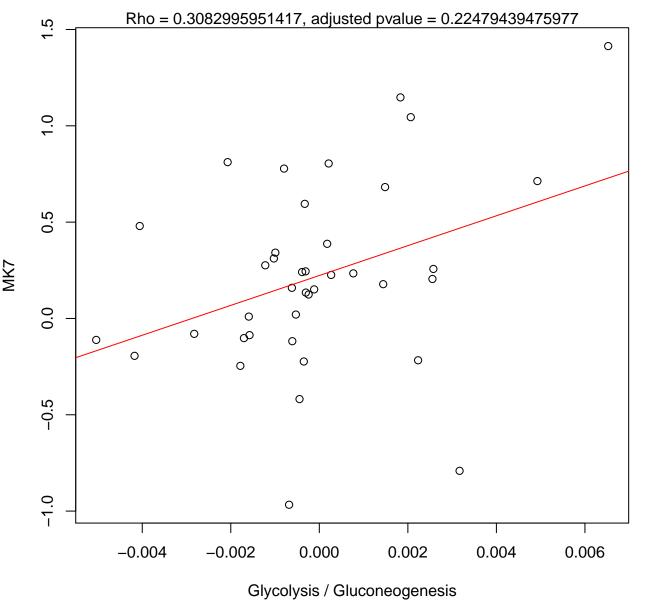
#### Group A, Delta MK7 ~ Delta Fatty acid metabolism



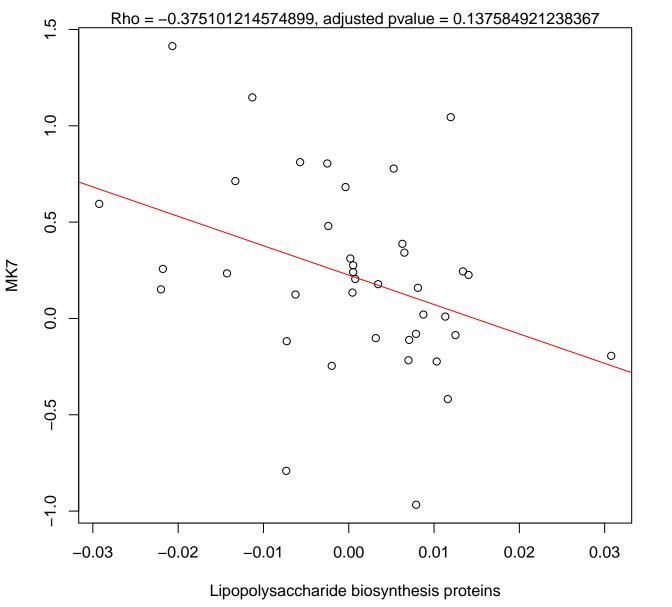
#### **Group A, Delta MK7 ~ Delta Glycosyltransferases**



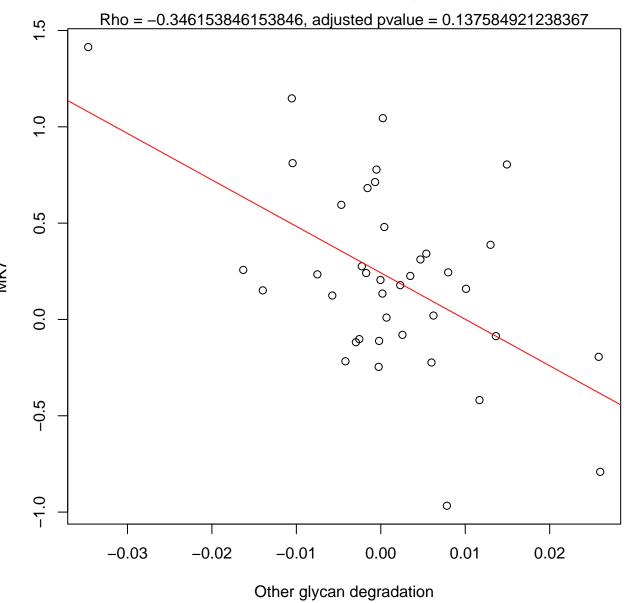
## **Group A, Delta MK7 ~ Delta Glycolysis / Gluconeogenesis**



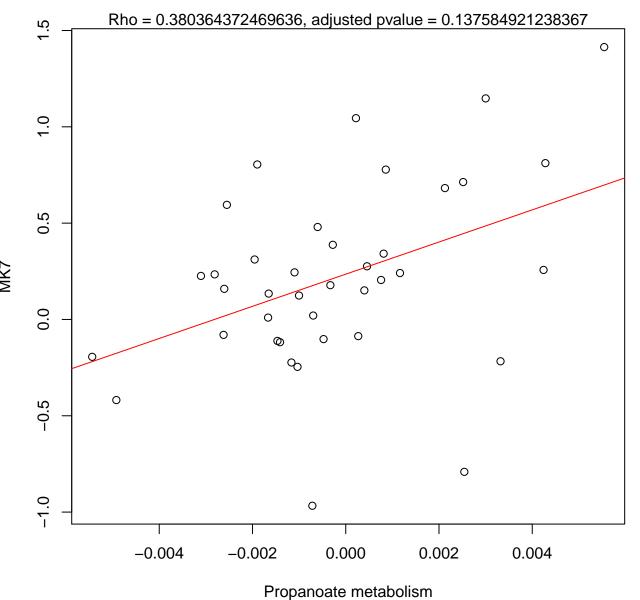
## **Group A, Delta MK7 ~ Delta Lipopolysaccharide biosynthesis proteins**



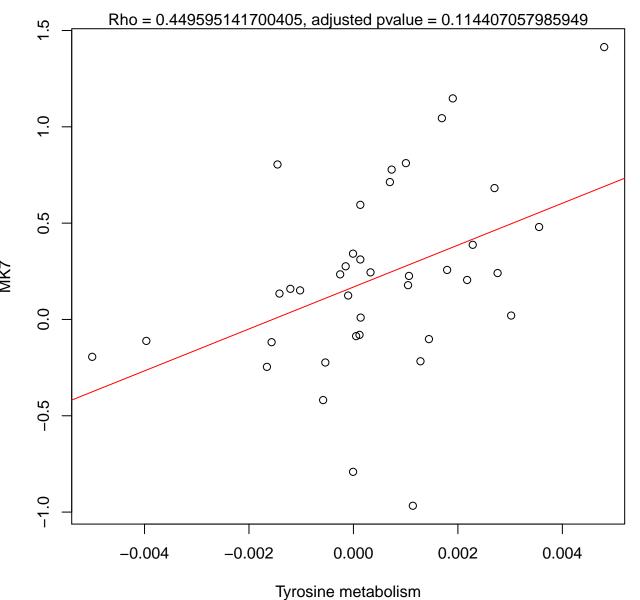
#### **Group A, Delta MK7 ~ Delta Other glycan degradation**



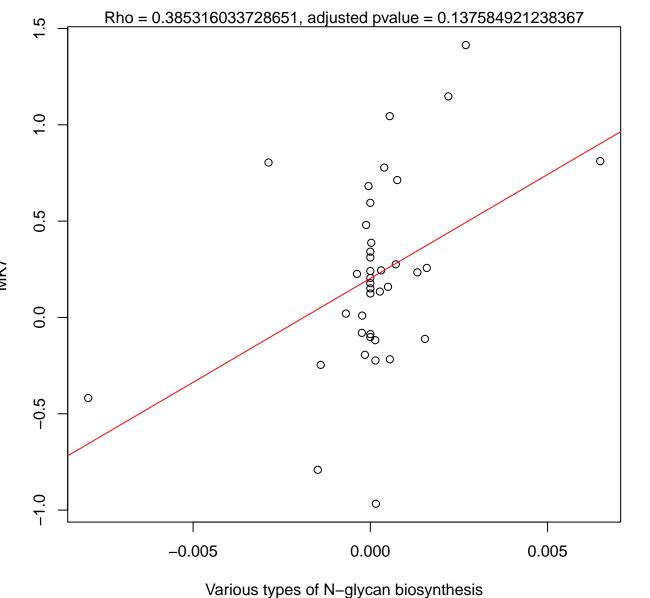
#### Group A, Delta MK7 ~ Delta Propanoate metabolism



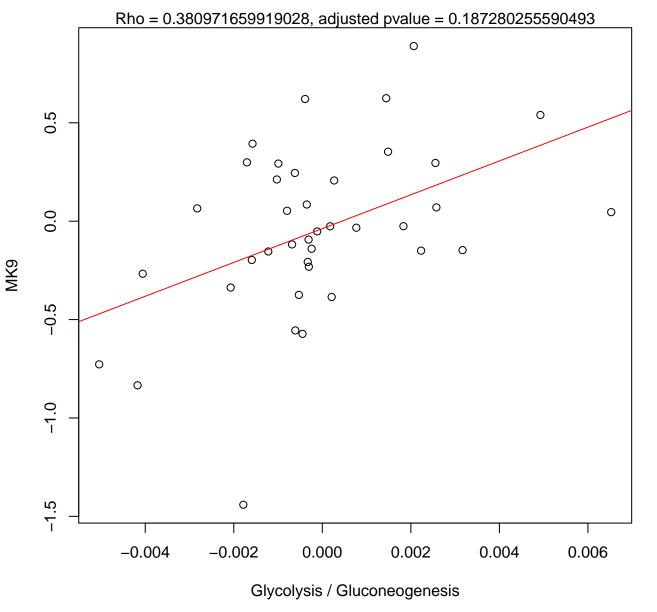
#### **Group A, Delta MK7 ~ Delta Tyrosine metabolism**



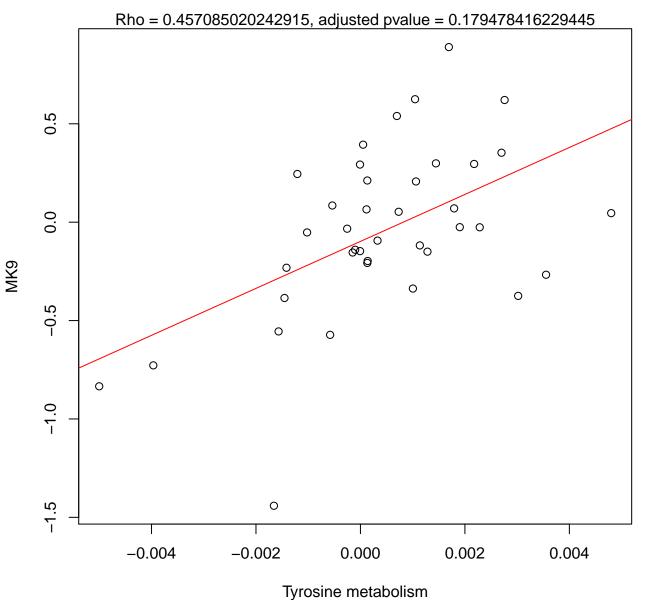
## **Group A, Delta MK7 ~ Delta Various types of N-glycan biosynthesis**



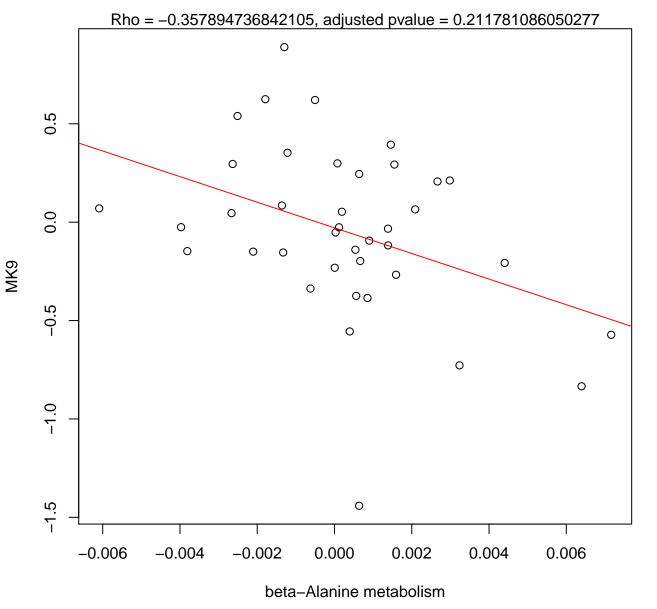
#### **Group A, Delta MK9 ~ Delta Glycolysis / Gluconeogenesis**



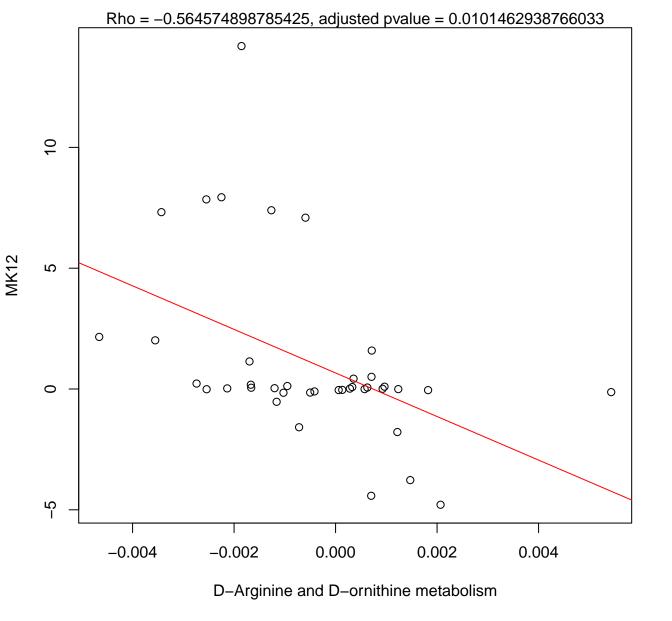
#### **Group A, Delta MK9 ~ Delta Tyrosine metabolism**



## Group A, Delta MK9 ~ Delta beta-Alanine metabolism



## **Group A, Delta MK12 ~ Delta D-Arginine and D-ornithine metabolism**



## **Group A, Delta MK13 ~ Delta D-Arginine and D-ornithine metabolism**

