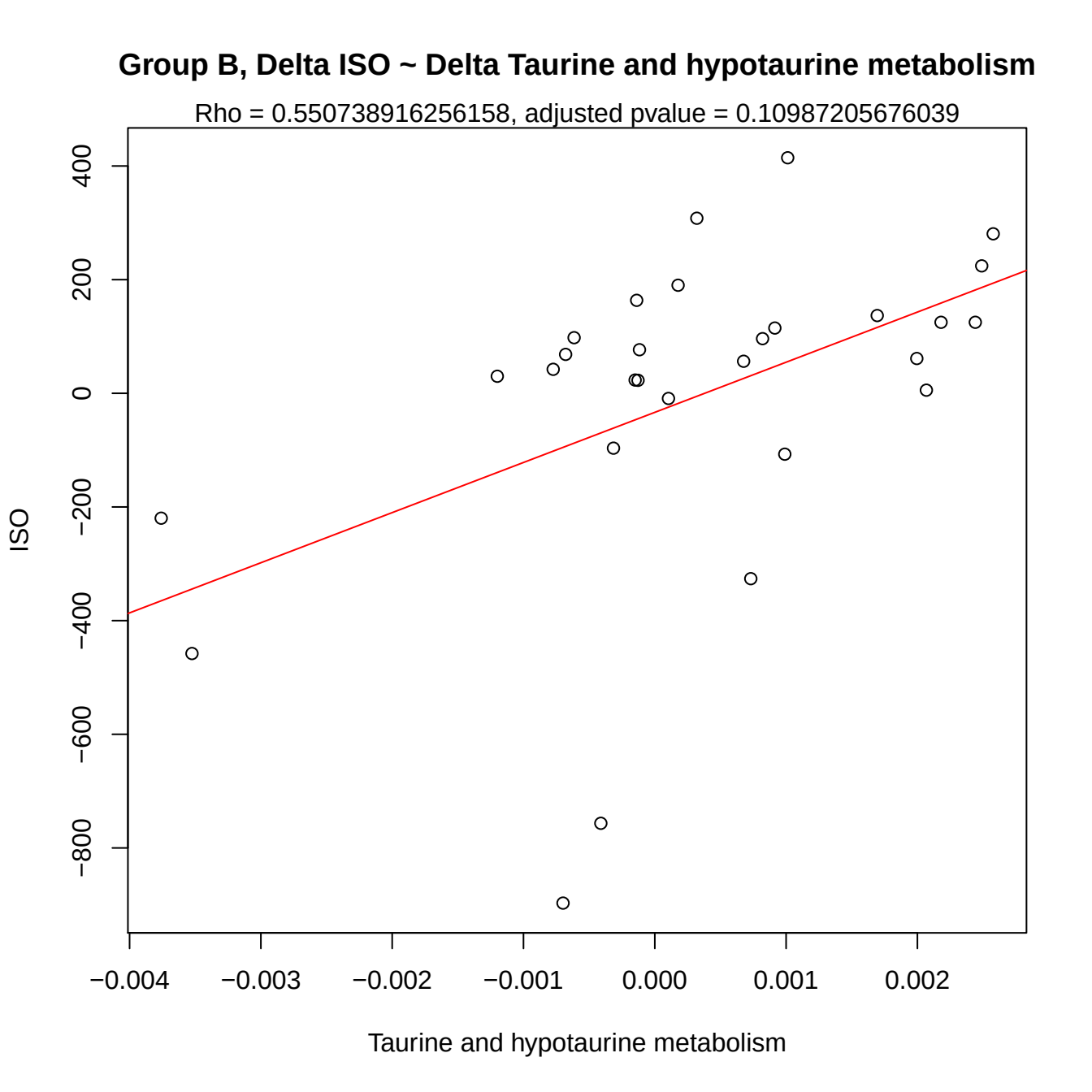
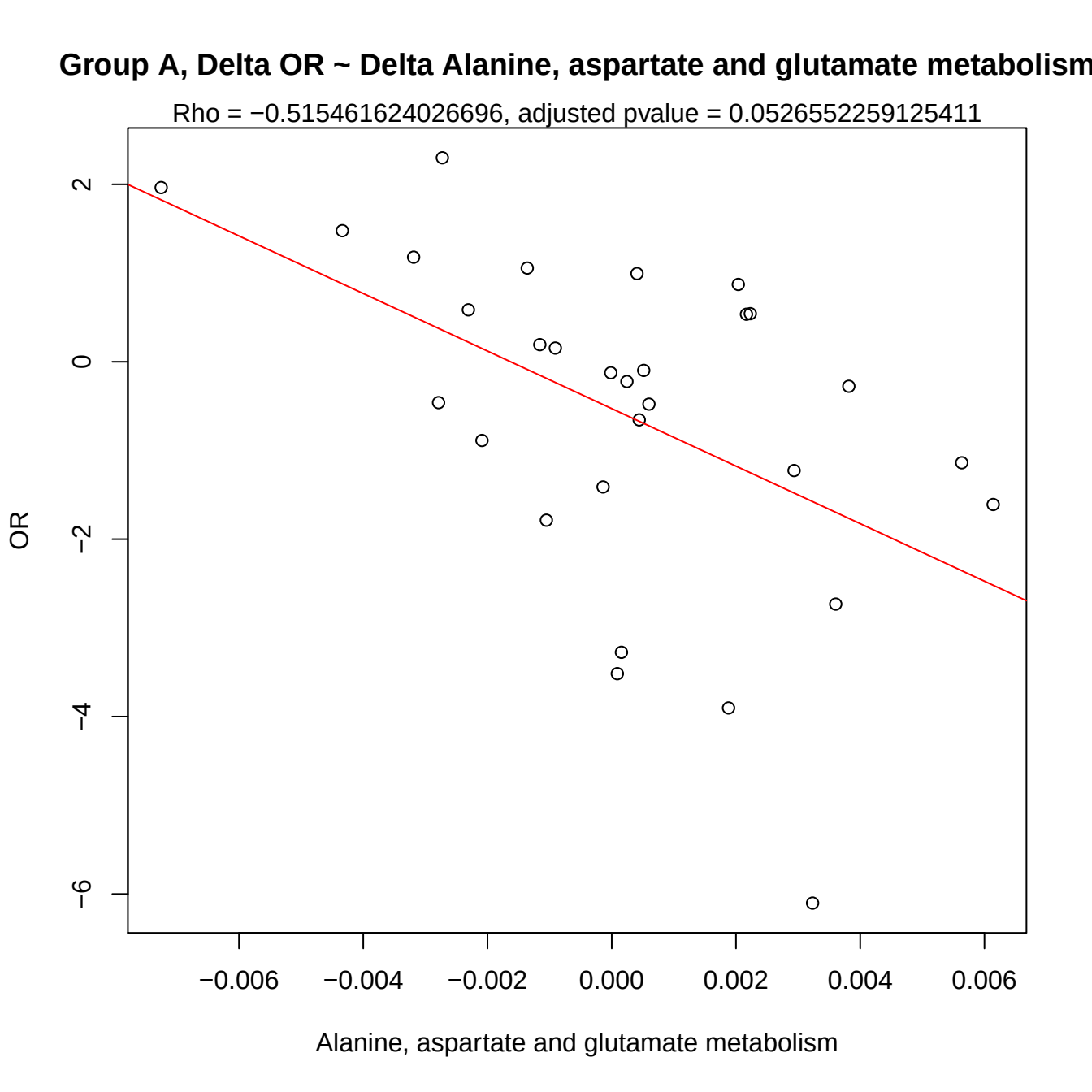
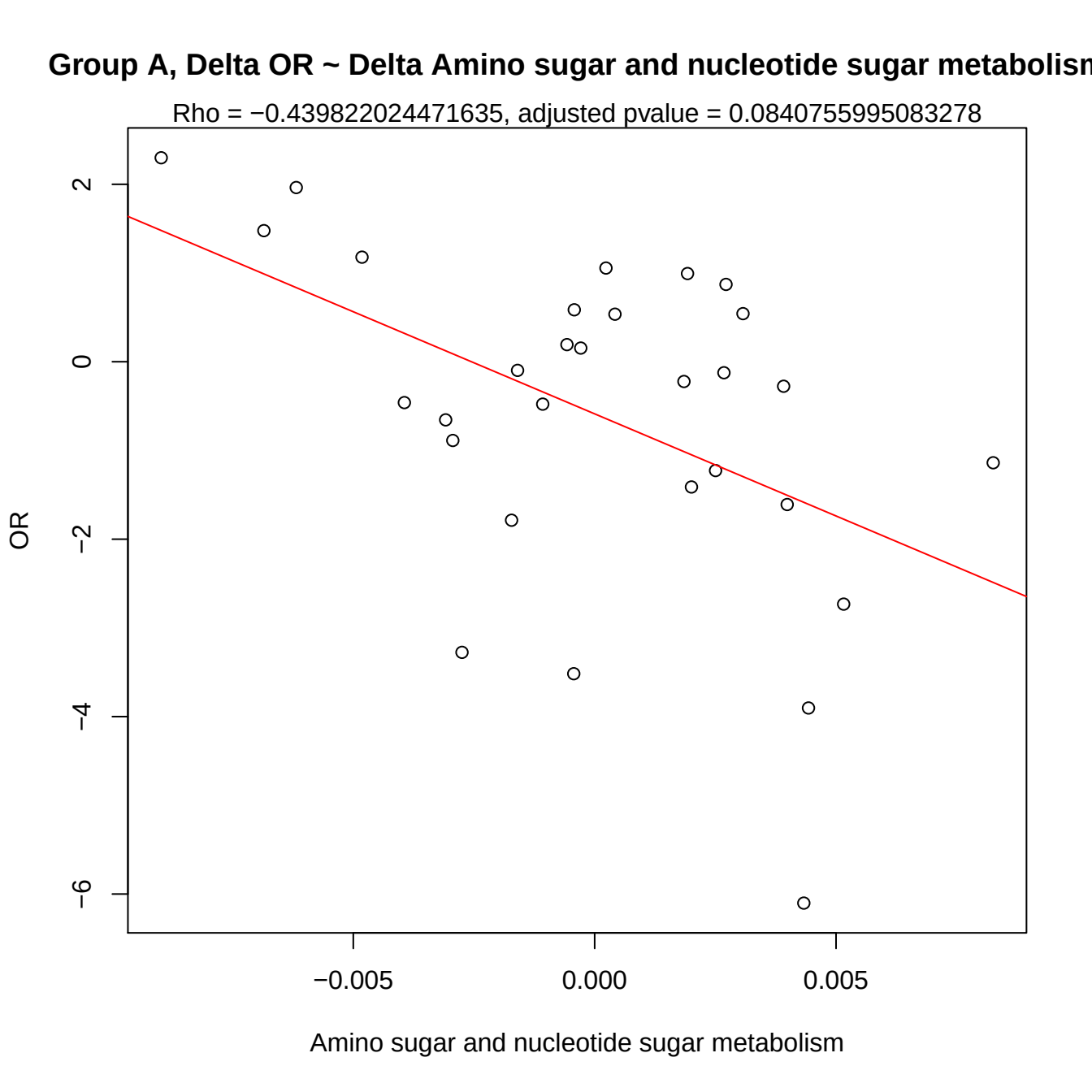
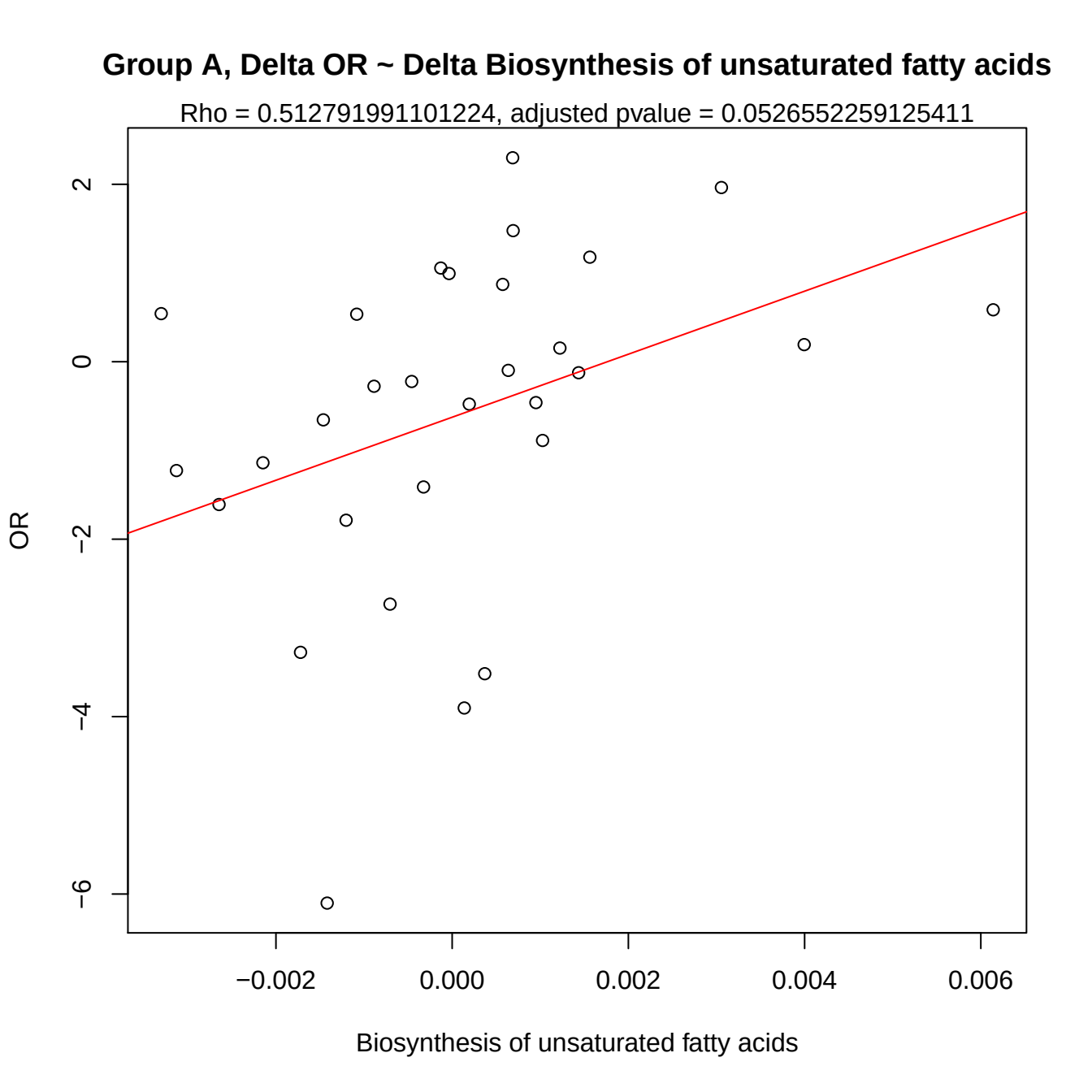
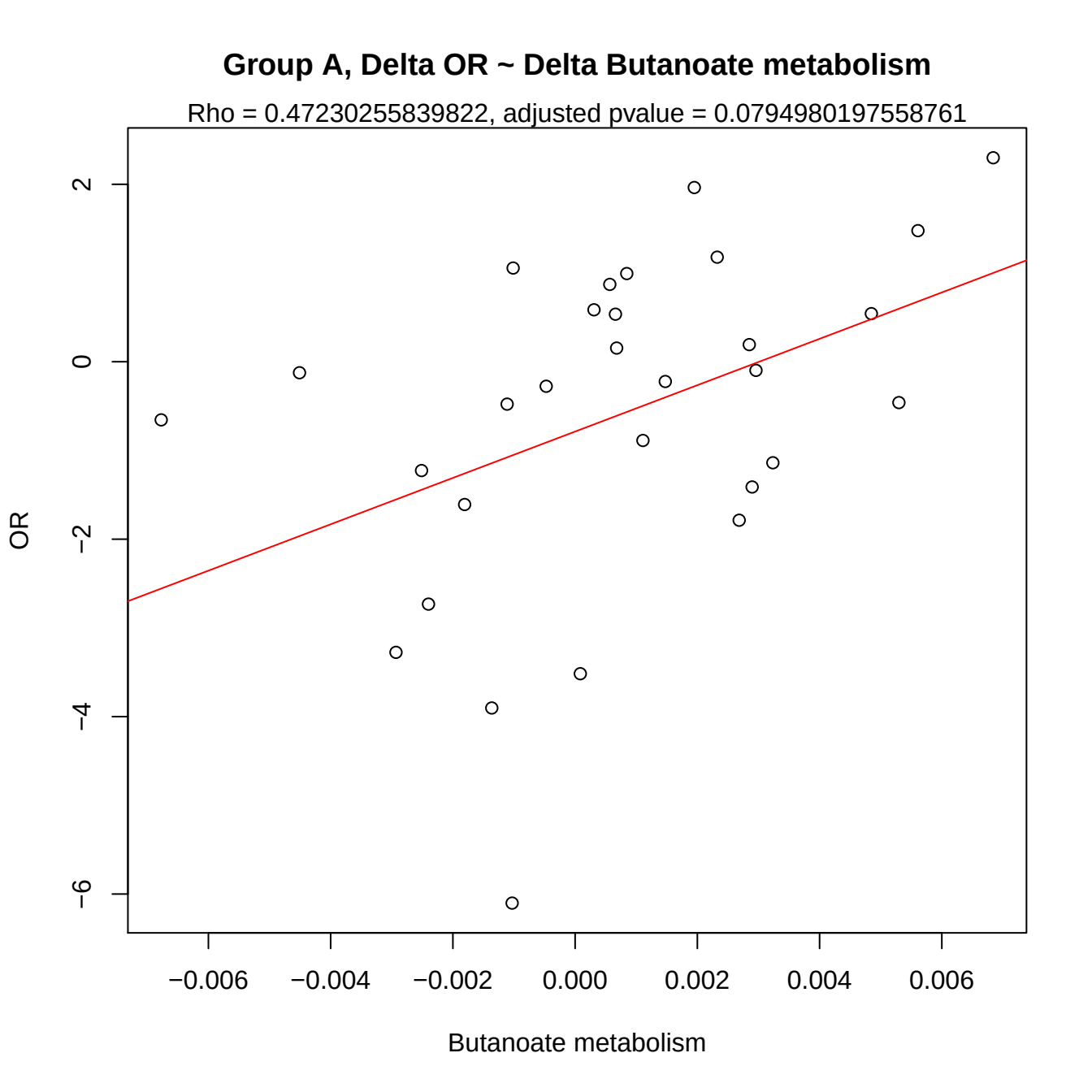
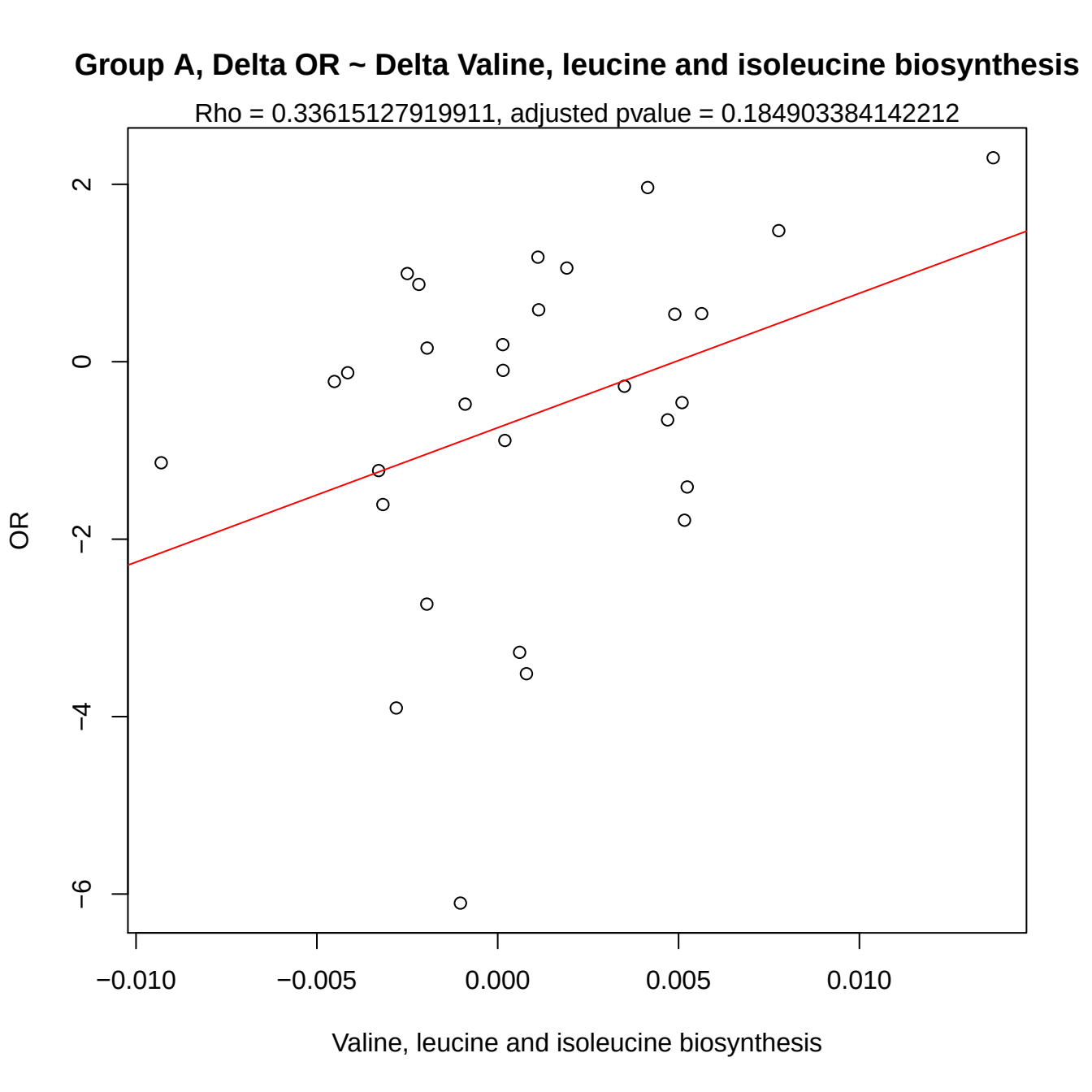

Group B, Delta ISO ~ Delta Taurine and hypotaurine metabolism
Rho = 0.550738916256158, adjusted pvalue = 0.10987205676039
ISO
400
200
0
−200
−400
−600
−800
−0.004
−0.003
−0.002
−0.001
0.000
0.001
0.002
Taurine and hypotaurine metabolism

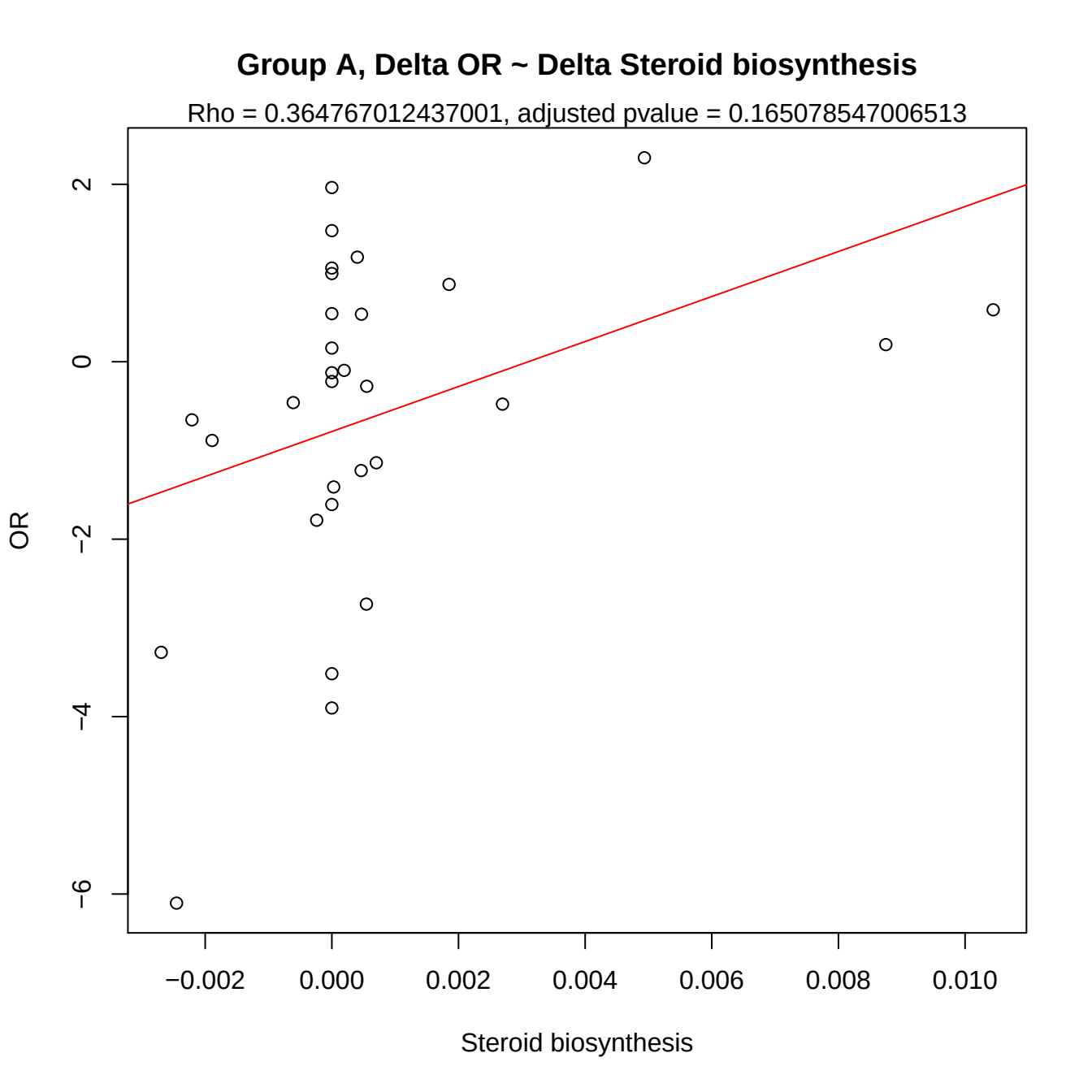

Group A, Delta OR ~ Delta Alanine, aspartate and glutamate metabolism
Rho = −0.515461624026696, adjusted pvalue = 0.0526552259125411
OR
2
0
−2
−4
−6
−0.006
−0.004
−0.002
0.000
0.002
0.004
0.006
Alanine, aspartate and glutamate metabolism

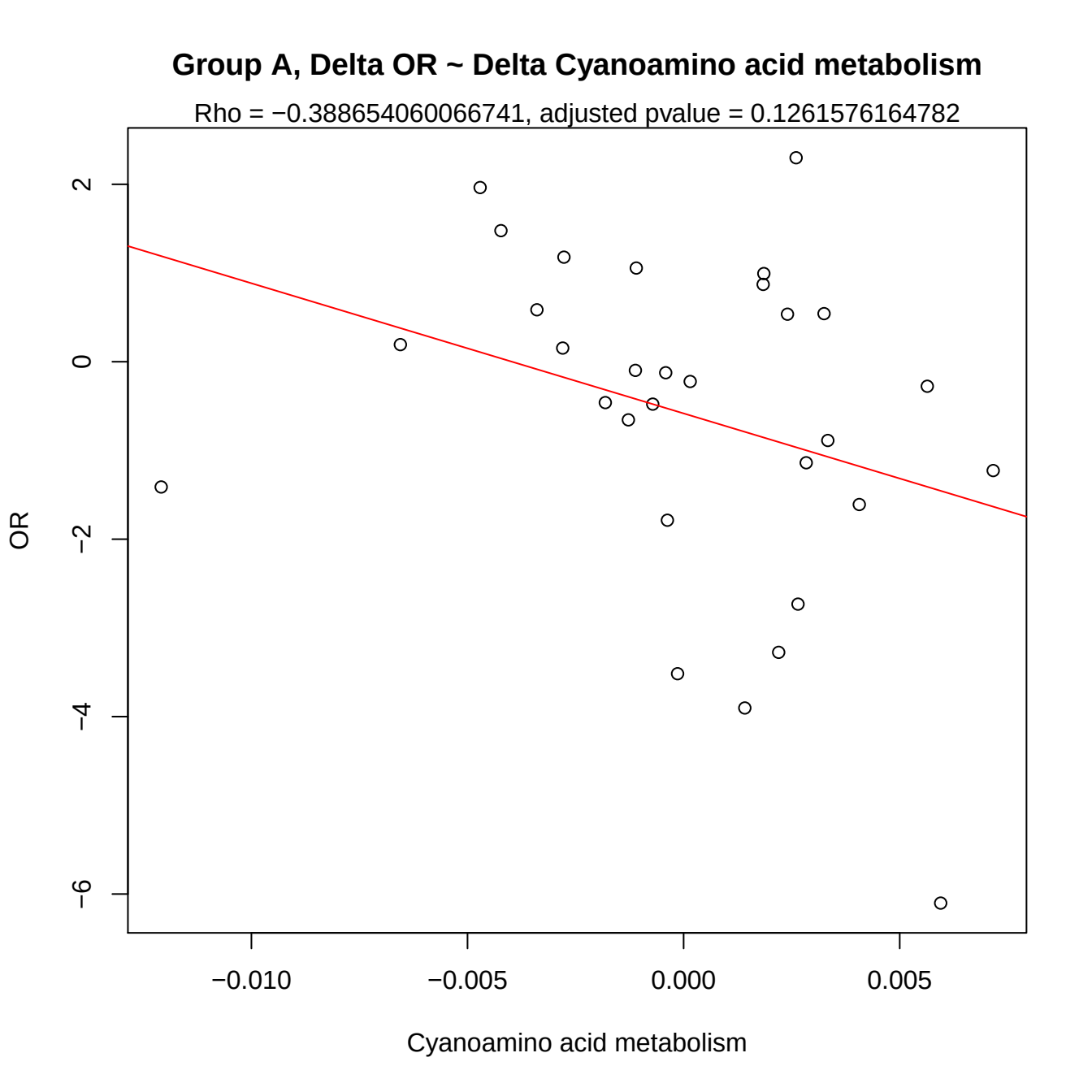

Group A, Delta OR ~ Delta Amino sugar and nucleotide sugar metabolism
Rho = −0.439822024471635, adjusted pvalue = 0.0840755995083278
OR
2
0
−2
−4
−6
−0.005
0.000
0.005
Amino sugar and nucleotide sugar metabolism

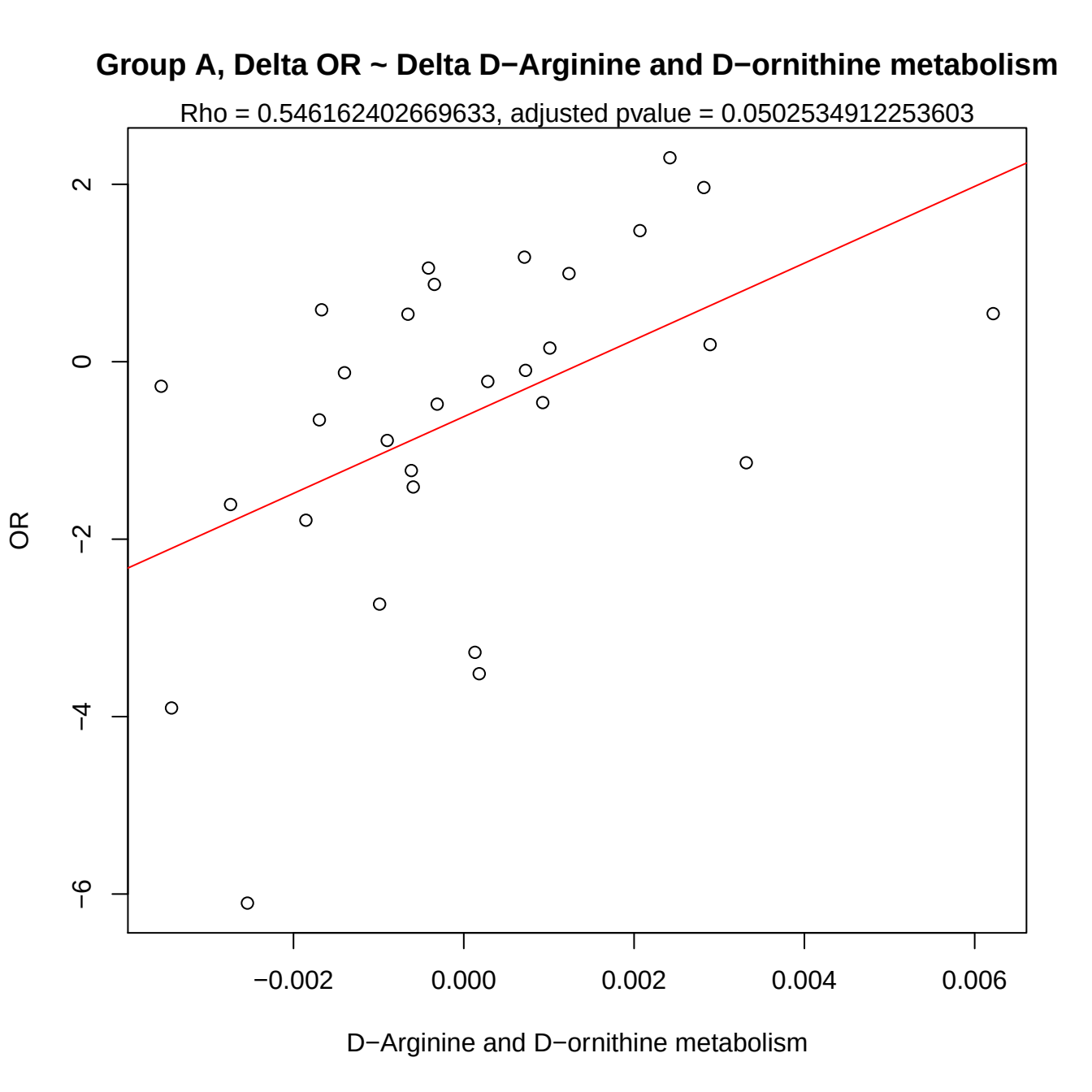

Group A, Delta OR ~ Delta Biosynthesis of unsaturated fatty acids
Rho = 0.512791991101224, adjusted pvalue = 0.0526552259125411
OR
2
0
−2
−4
−6
−0.002
0.000
0.002
0.004
0.006
Biosynthesis of unsaturated fatty acids

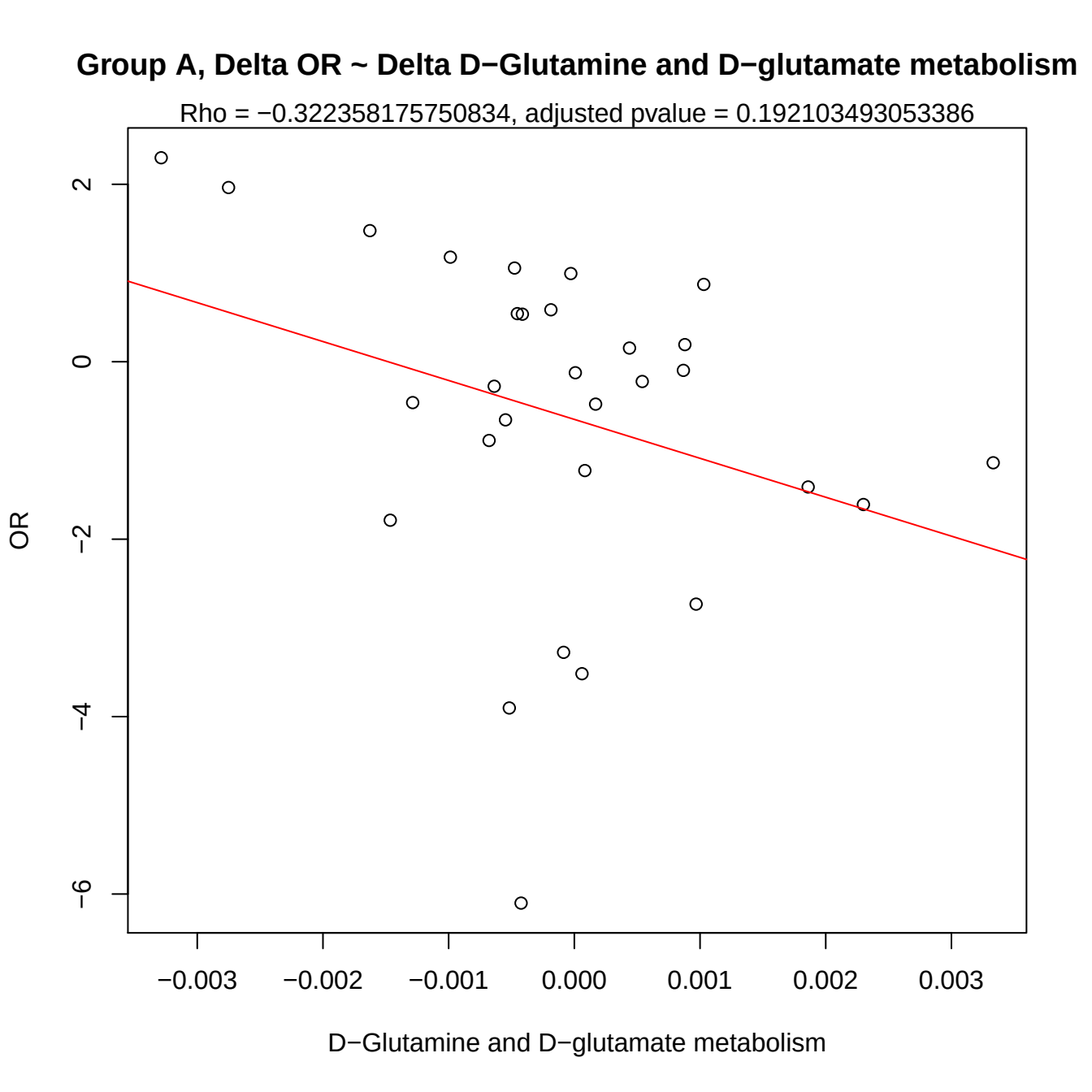

Group A, Delta OR ~ Delta Butanoate metabolism
Rho = 0.47230255839822, adjusted pvalue = 0.0794980197558761
OR
2
0
−2
−4
−6
−0.006
−0.004
−0.002
0.000
0.002
0.004
0.006
Butanoate metabolism

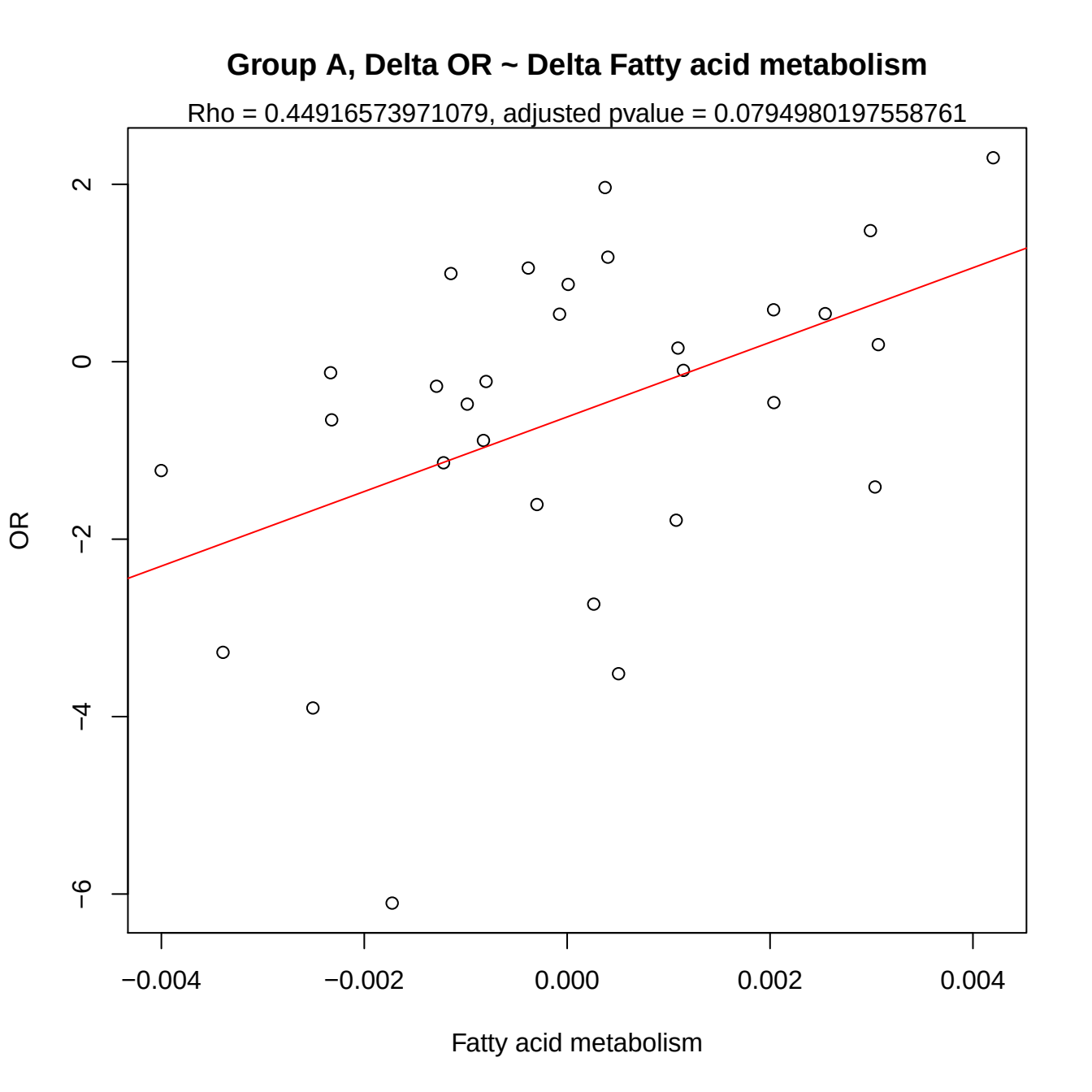

Group A, Delta OR ~ Delta Valine, leucine and isoleucine biosynthesis
Rho = 0.33615127919911, adjusted pvalue = 0.184903384142212
OR
2
0
−2
−4
−6
−0.010
−0.005
0.000
0.005
0.010
Valine, leucine and isoleucine biosynthesis

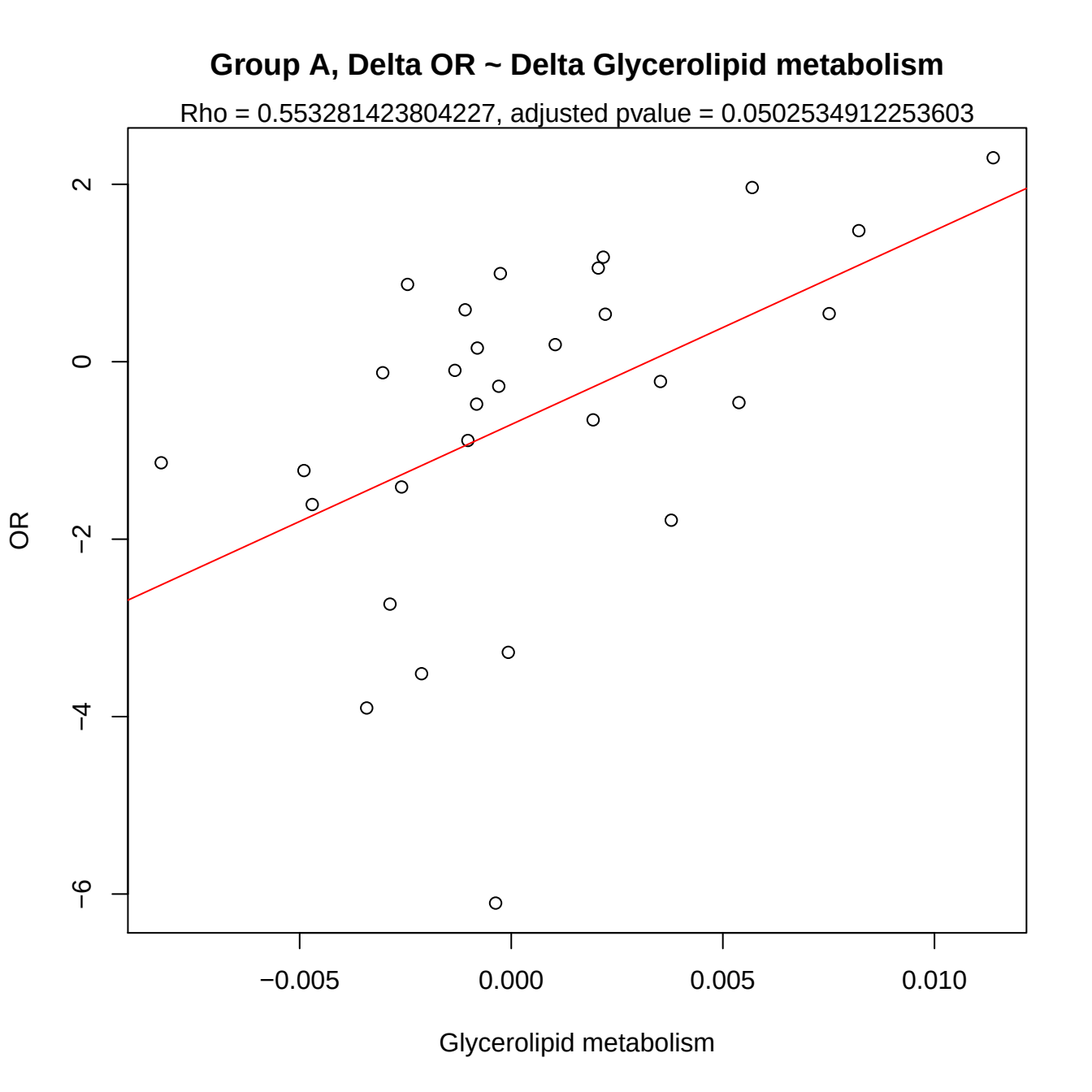

Group A, Delta OR ~ Delta Steroid biosynthesis
Rho = 0.364767012437001, adjusted pvalue = 0.165078547006513
OR
2
0
−2
−4
−6
−0.002
0.000
0.002
0.004
0.006
0.008
0.010
Steroid biosynthesis

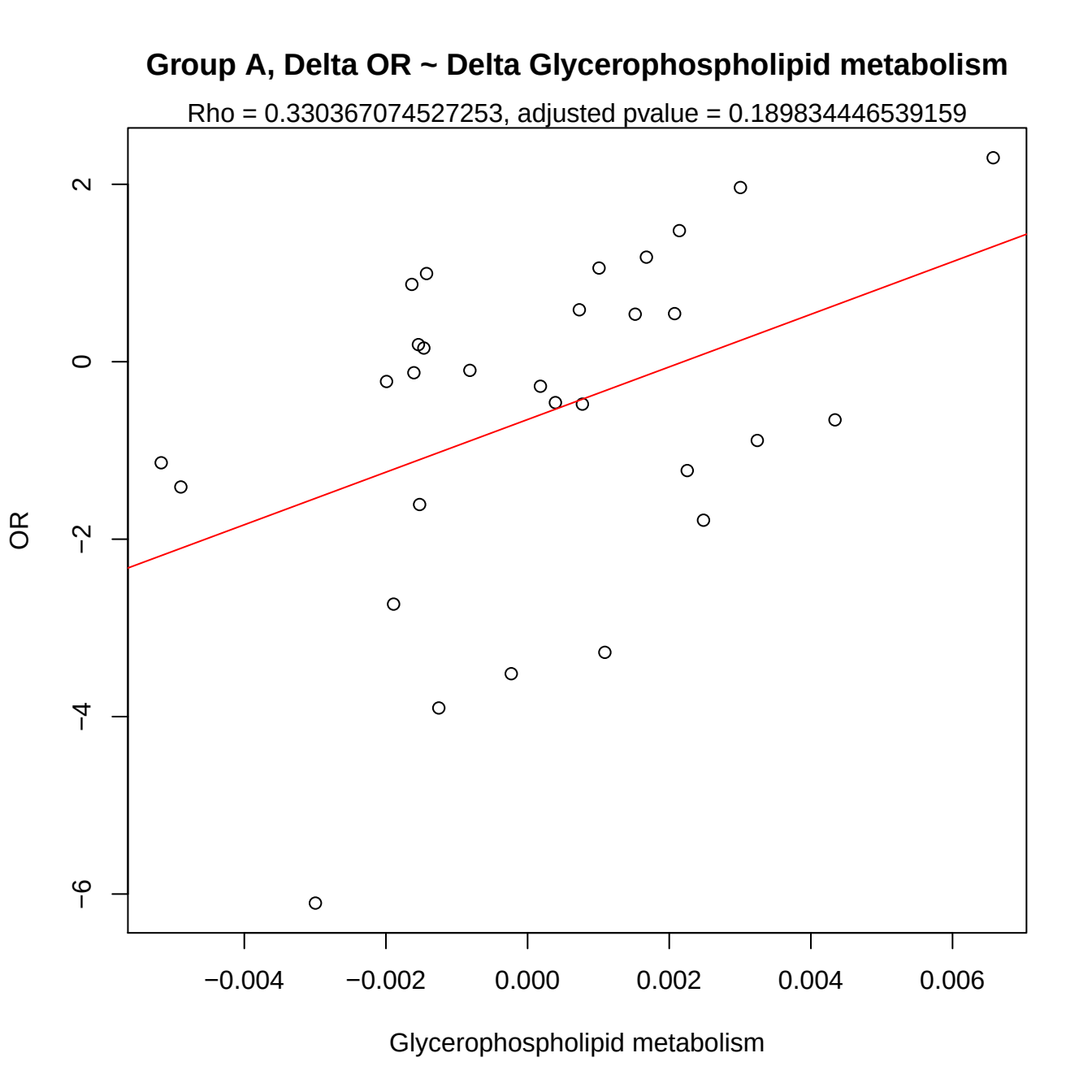

Group A, Delta OR ~ Delta Cyanoamino acid metabolism
Rho = −0.388654060066741, adjusted pvalue = 0.1261576164782
OR
2
0
−2
−4
−6
−0.010
−0.005
0.000
0.005
Cyanoamino acid metabolism

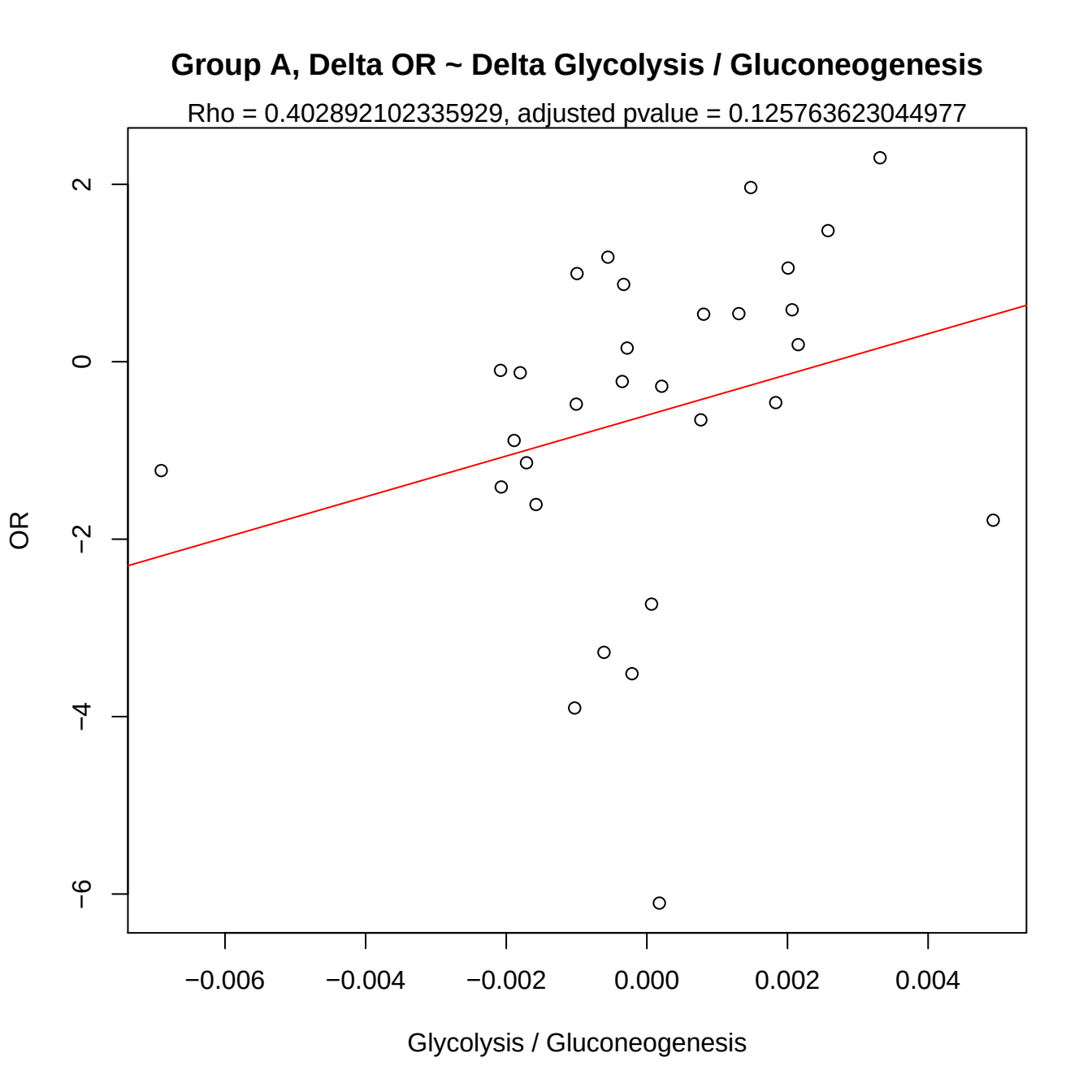

Group A, Delta OR ~ Delta D−Arginine and D−ornithine metabolism
Rho = 0.546162402669633, adjusted pvalue = 0.0502534912253603
OR
2
0
−2
−4
−6
−0.002
0.000
0.002
0.004
0.006
D−Arginine and D−ornithine metabolism

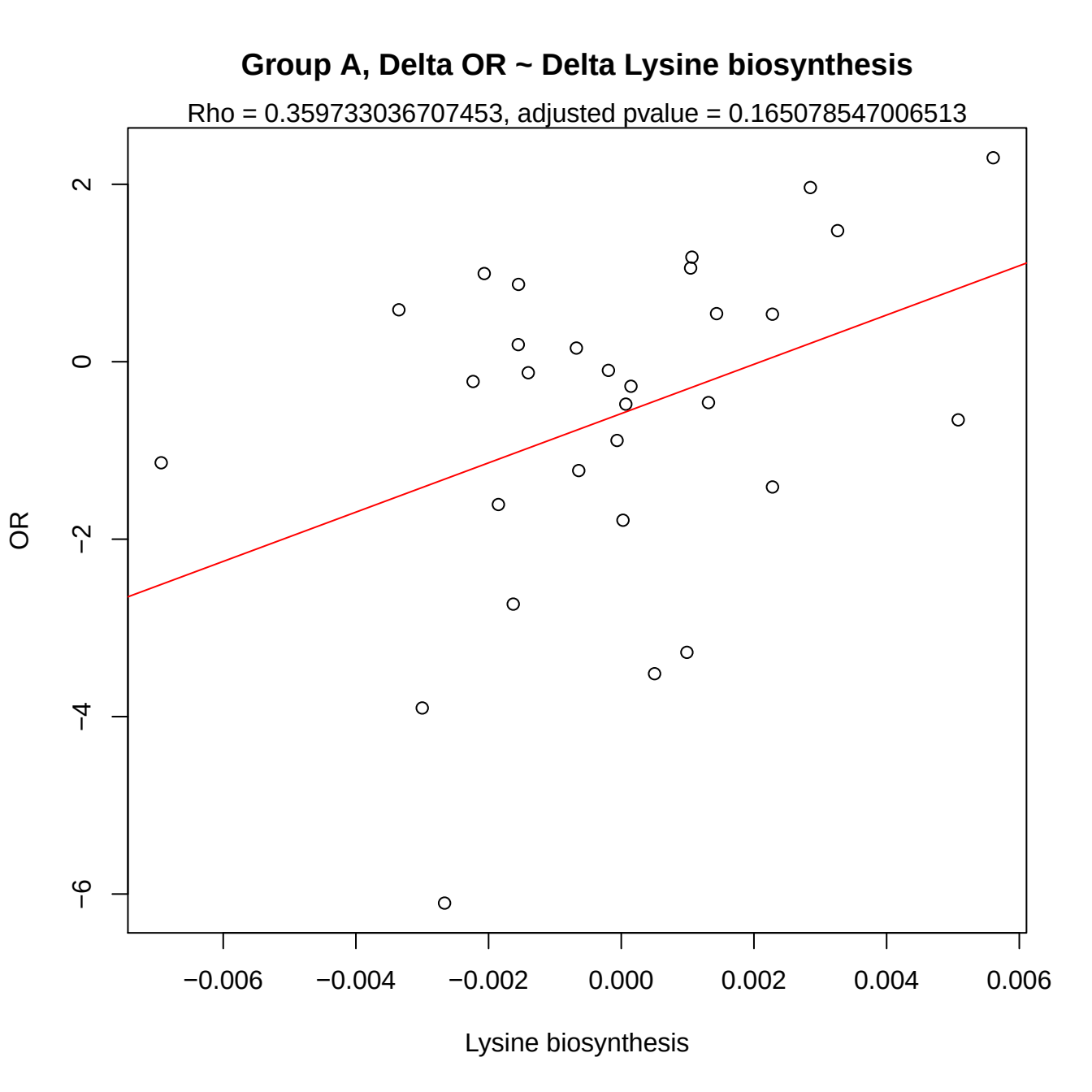

Group A, Delta OR ~ Delta D−Glutamine and D−glutamate metabolism
Rho = −0.322358175750834, adjusted pvalue = 0.192103493053386
OR
2
0
−2
−4
−6
−0.003
−0.002
−0.001
0.000
0.001
0.002
0.003
D−Glutamine and D−glutamate metabolism

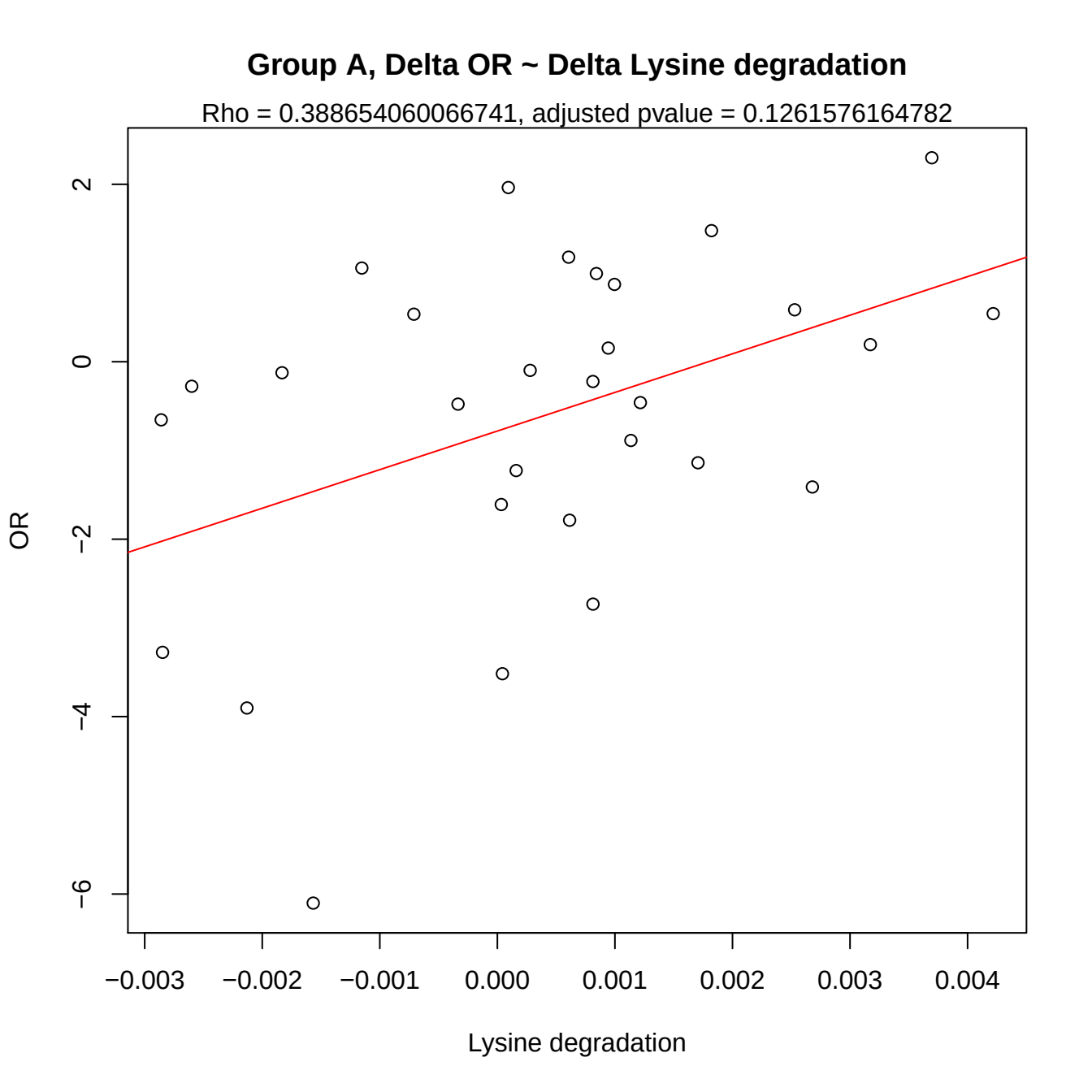

Group A, Delta OR ~ Delta Fatty acid metabolism
Rho = 0.44916573971079, adjusted pvalue = 0.0794980197558761
OR
2
0
−2
−4
−6
−0.004
−0.002
0.000
0.002
0.004
Fatty acid metabolism

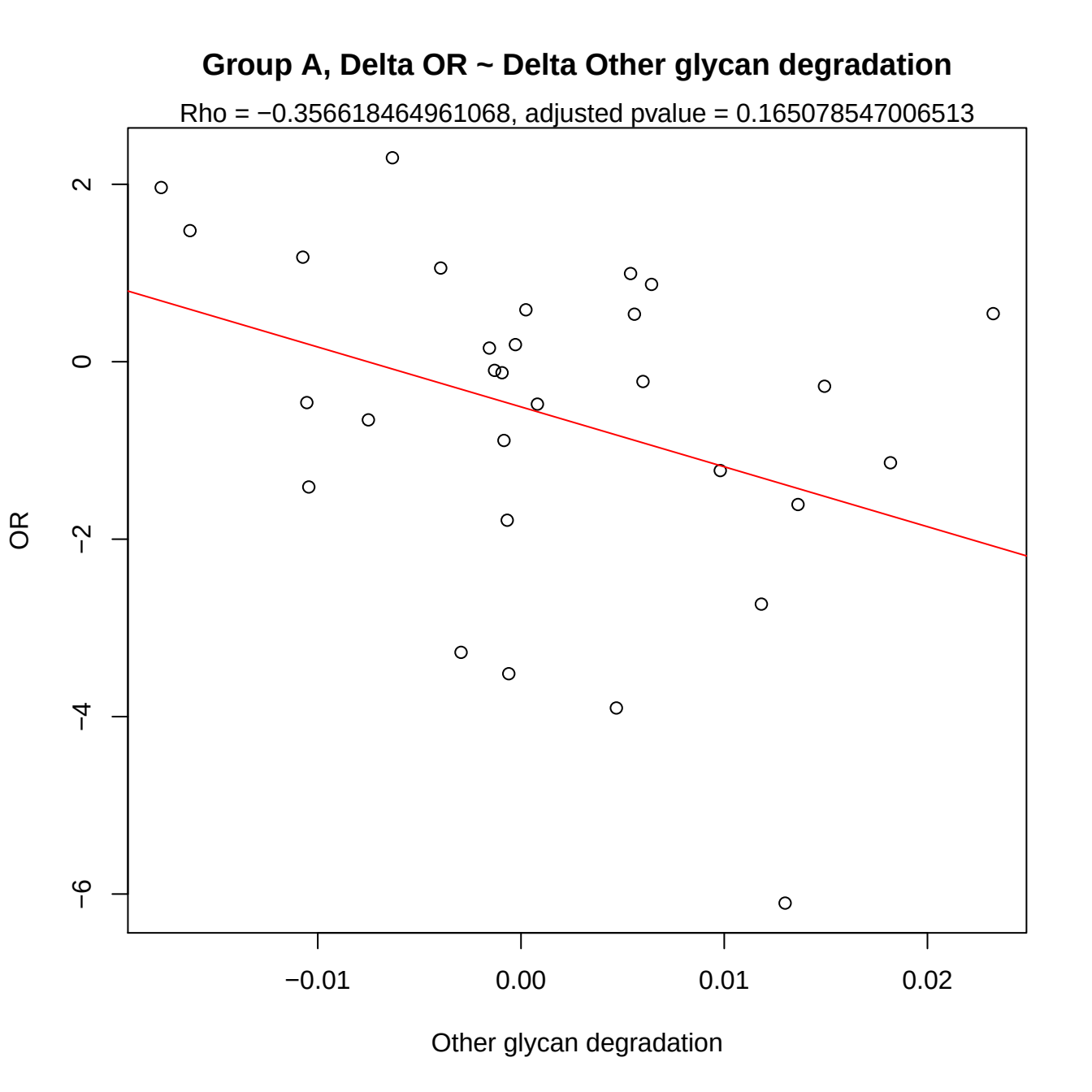

Group A, Delta OR ~ Delta Glycerolipid metabolism
Rho = 0.553281423804227, adjusted pvalue = 0.0502534912253603
OR
2
0
−2
−4
−6
−0.005
0.000
0.005
0.010
Glycerolipid metabolism

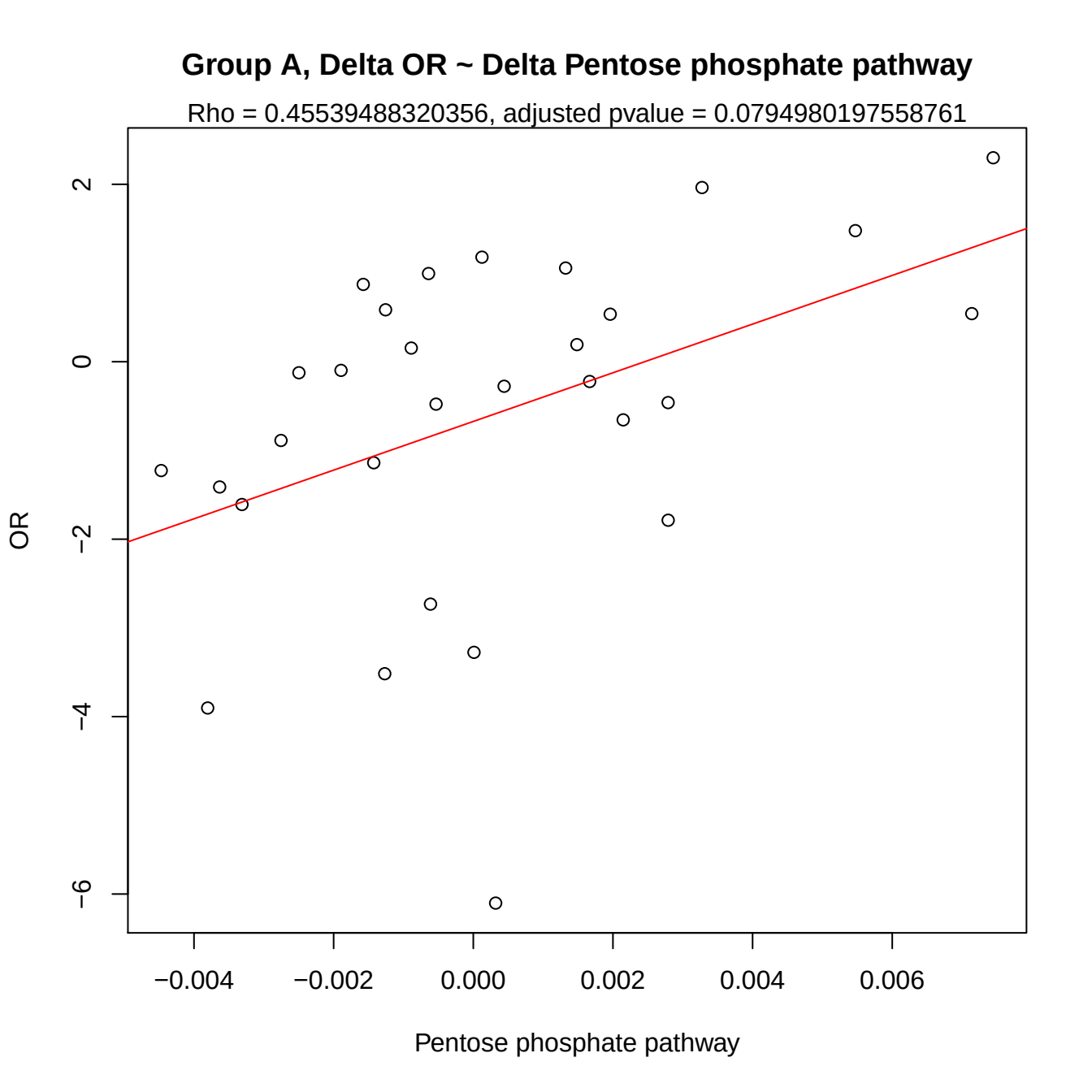

Group A, Delta OR ~ Delta Glycerophospholipid metabolism
Rho = 0.330367074527253, adjusted pvalue = 0.189834446539159
OR
2
0
−2
−4
−6
−0.004
−0.002
0.000
0.002
0.004
0.006
Glycerophospholipid metabolism

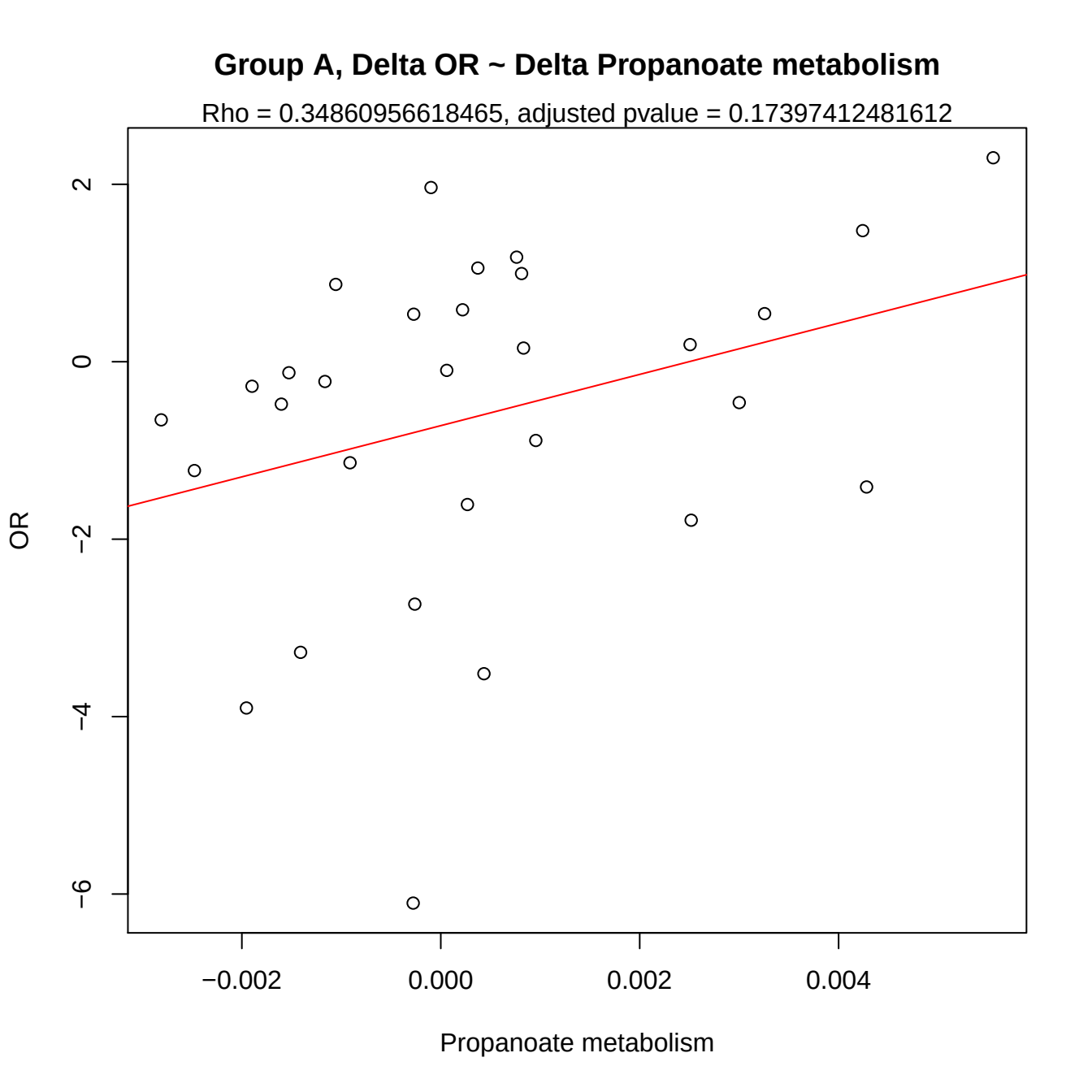

Group A, Delta OR ~ Delta Glycolysis / Gluconeogenesis
Rho = 0.402892102335929, adjusted pvalue = 0.125763623044977
OR
2
0
−2
−4
−6
−0.006
−0.004
−0.002
0.000
0.002
0.004
Glycolysis / Gluconeogenesis

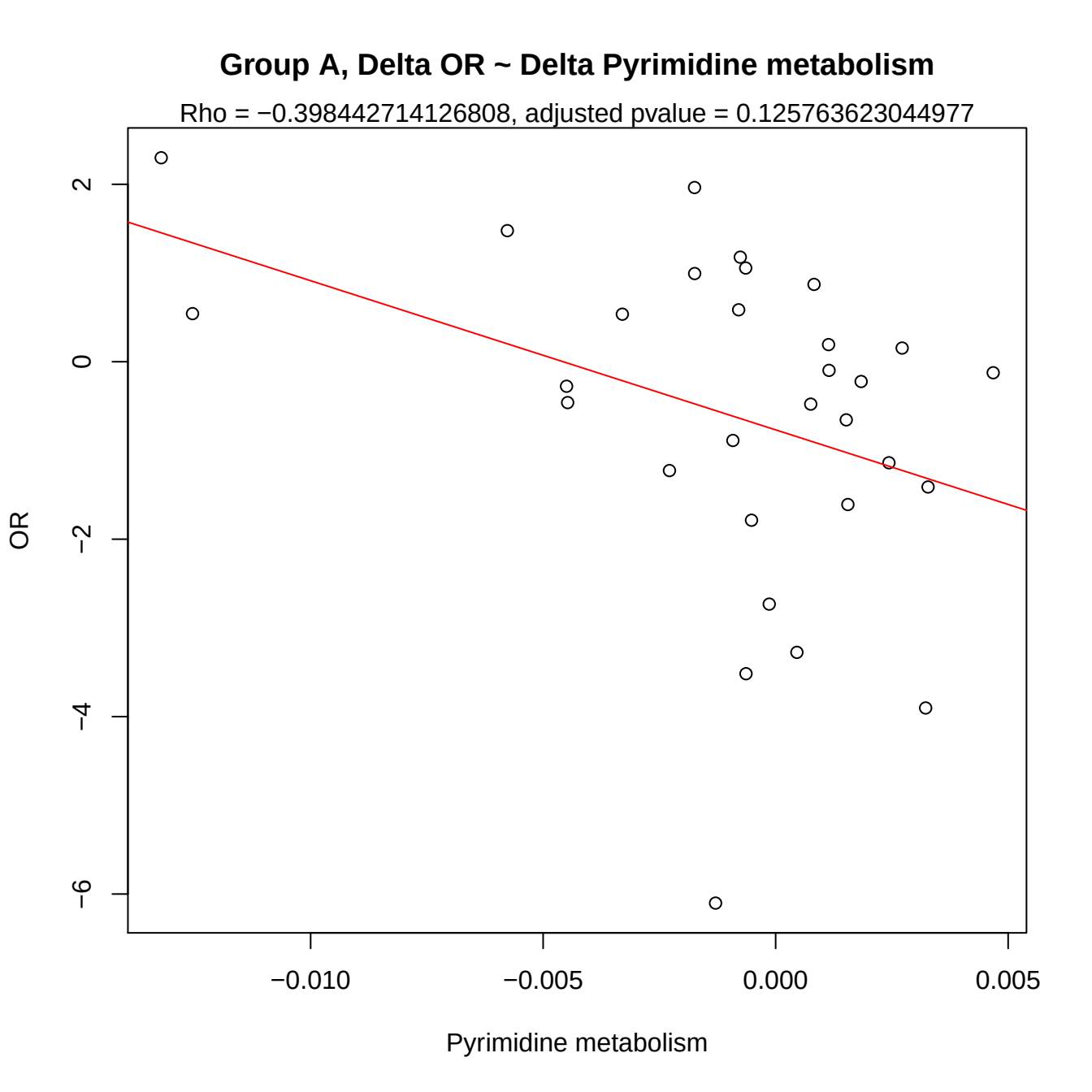

Group A, Delta OR ~ Delta Lysine biosynthesis
Rho = 0.359733036707453, adjusted pvalue = 0.165078547006513
OR
2
0
−2
−4
−6
−0.006
−0.004
−0.002
0.000
0.002
0.004
0.006
Lysine biosynthesis

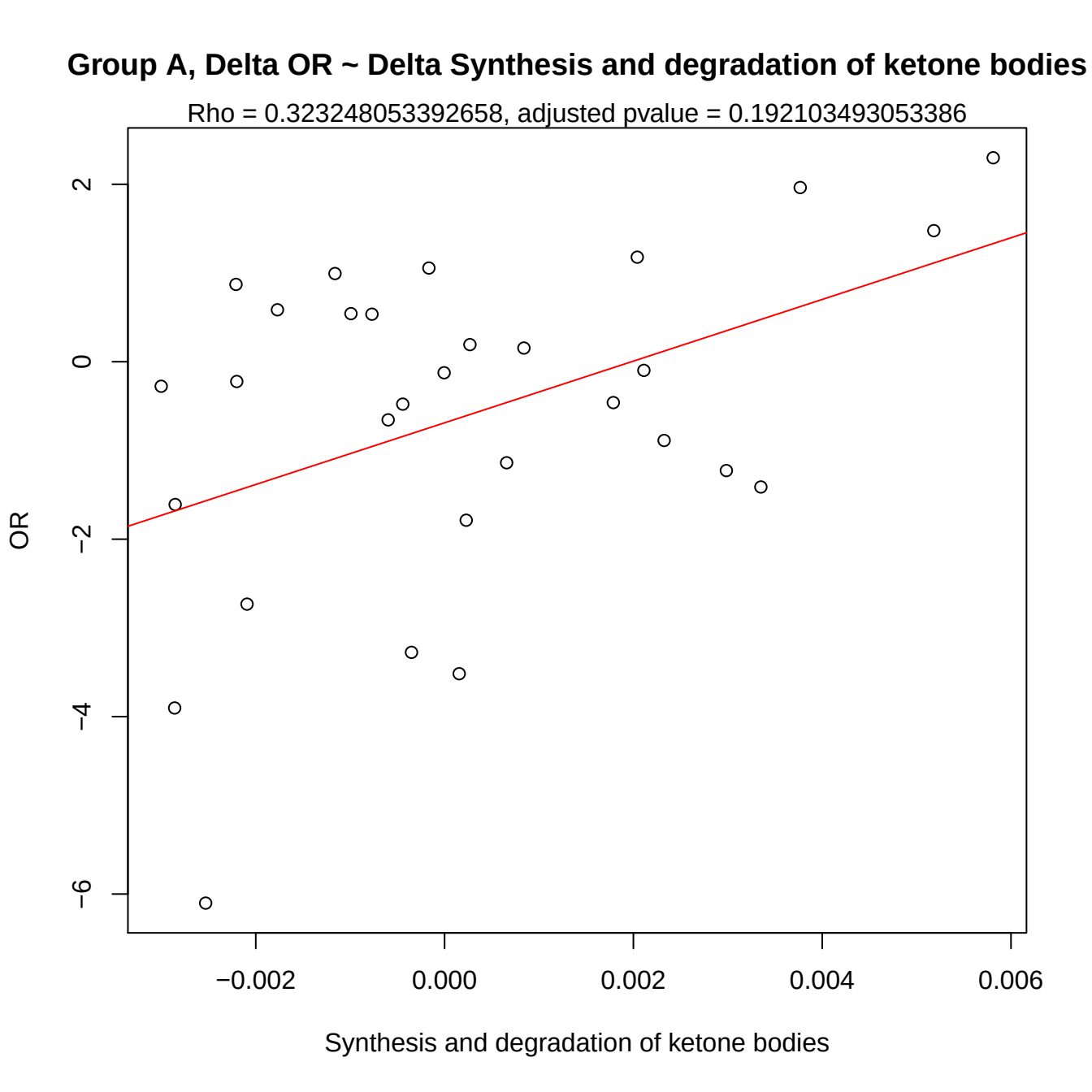

Group A, Delta OR ~ Delta Lysine degradation
Rho = 0.388654060066741, adjusted pvalue = 0.1261576164782
OR
2
0
−2
−4
−6
−0.003
−0.002
−0.001
0.000
0.001
0.002
0.003
0.004
Lysine degradation

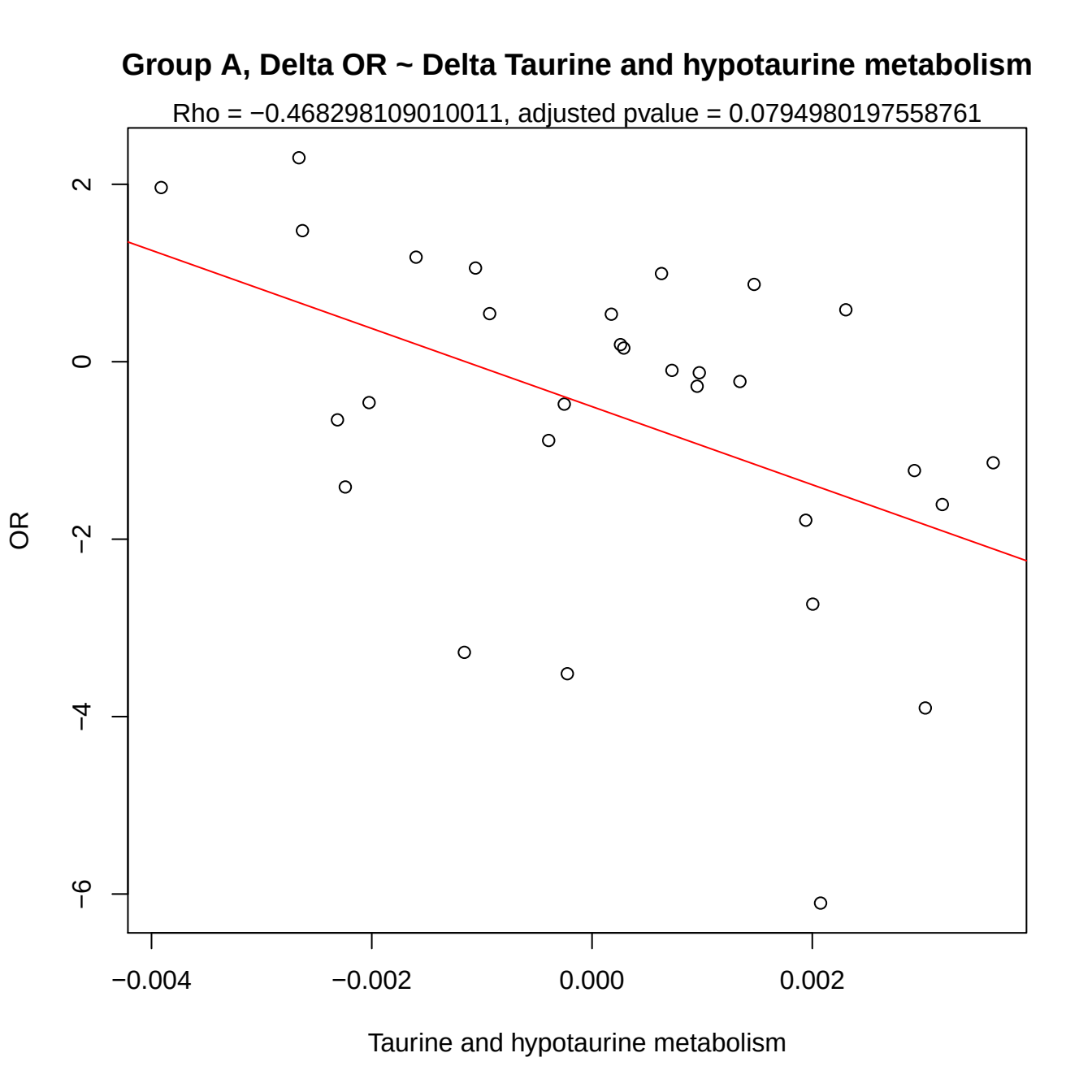

Group A, Delta OR ~ Delta Other glycan degradation
Rho = −0.356618464961068, adjusted pvalue = 0.165078547006513
OR
2
0
−2
−4
−6
−0.01
0.00
0.01
0.02
Other glycan degradation

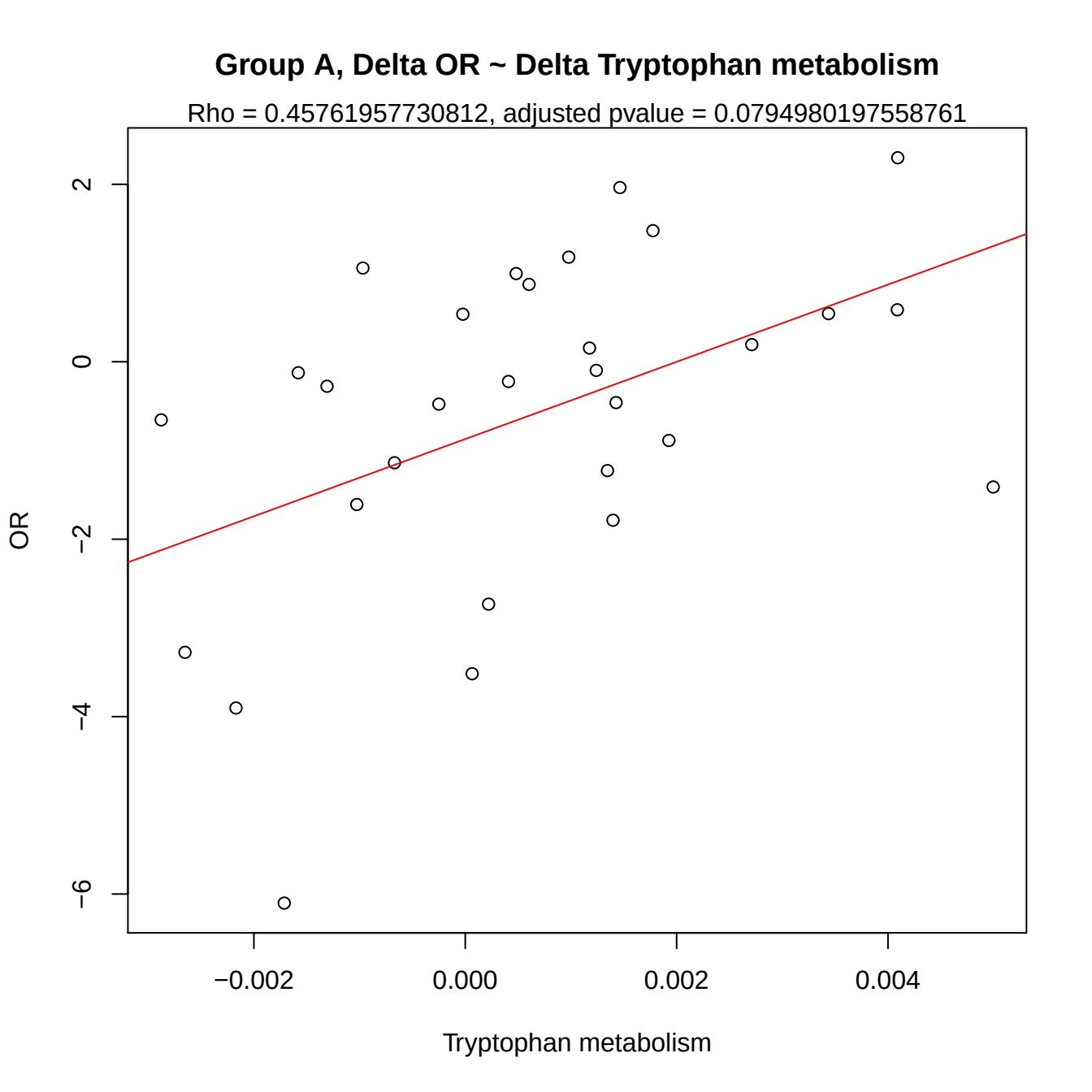

Group A, Delta OR ~ Delta Pentose phosphate pathway
Rho = 0.45539488320356, adjusted pvalue = 0.0794980197558761
OR
2
0
−2
−4
−6
−0.004
−0.002
0.000
0.002
0.004
0.006
Pentose phosphate pathway

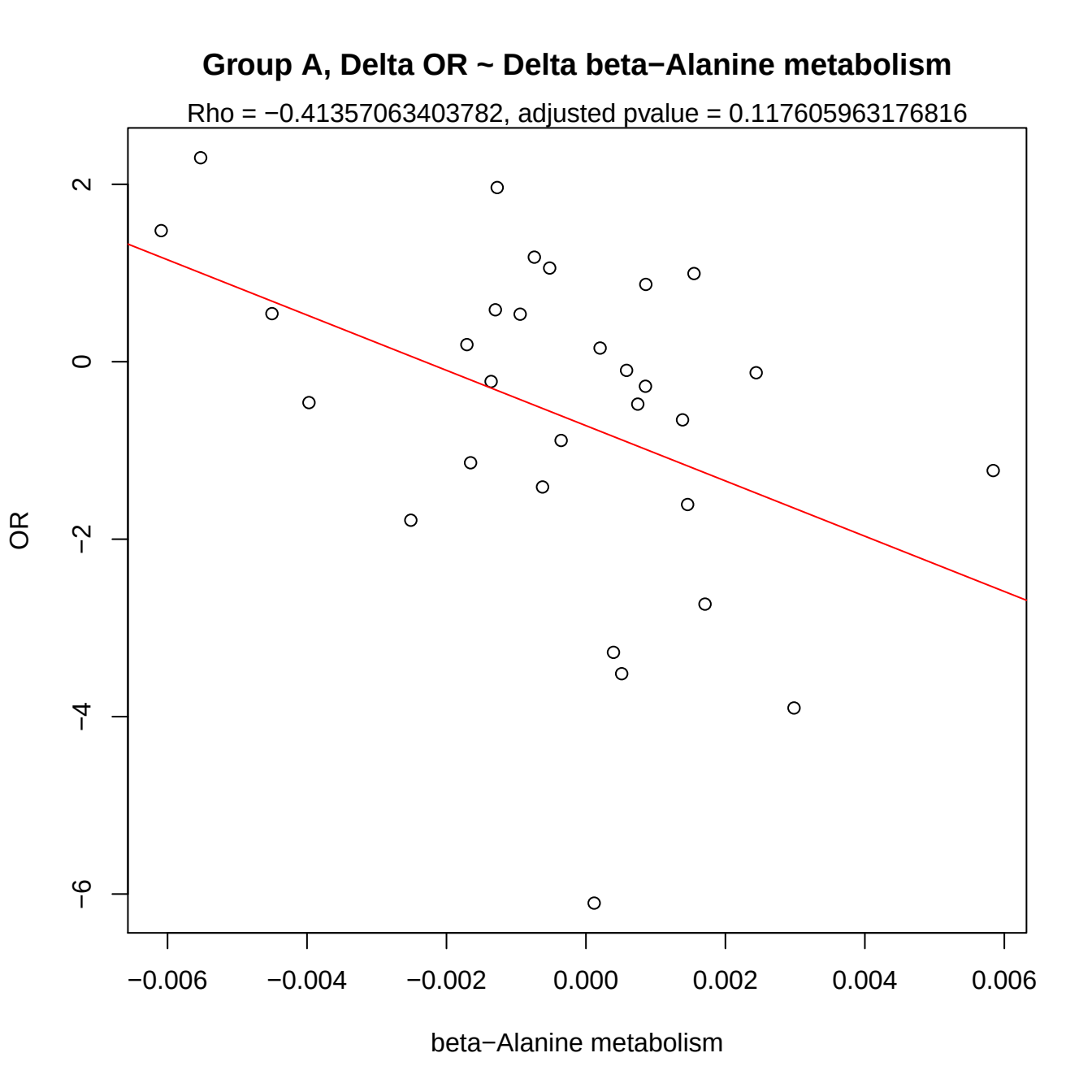

Group A, Delta OR ~ Delta Propanoate metabolism
Rho = 0.34860956618465, adjusted pvalue = 0.17397412481612
OR
2
0
−2
−4
−6
−0.002
0.000
0.002
0.004
Propanoate metabolism

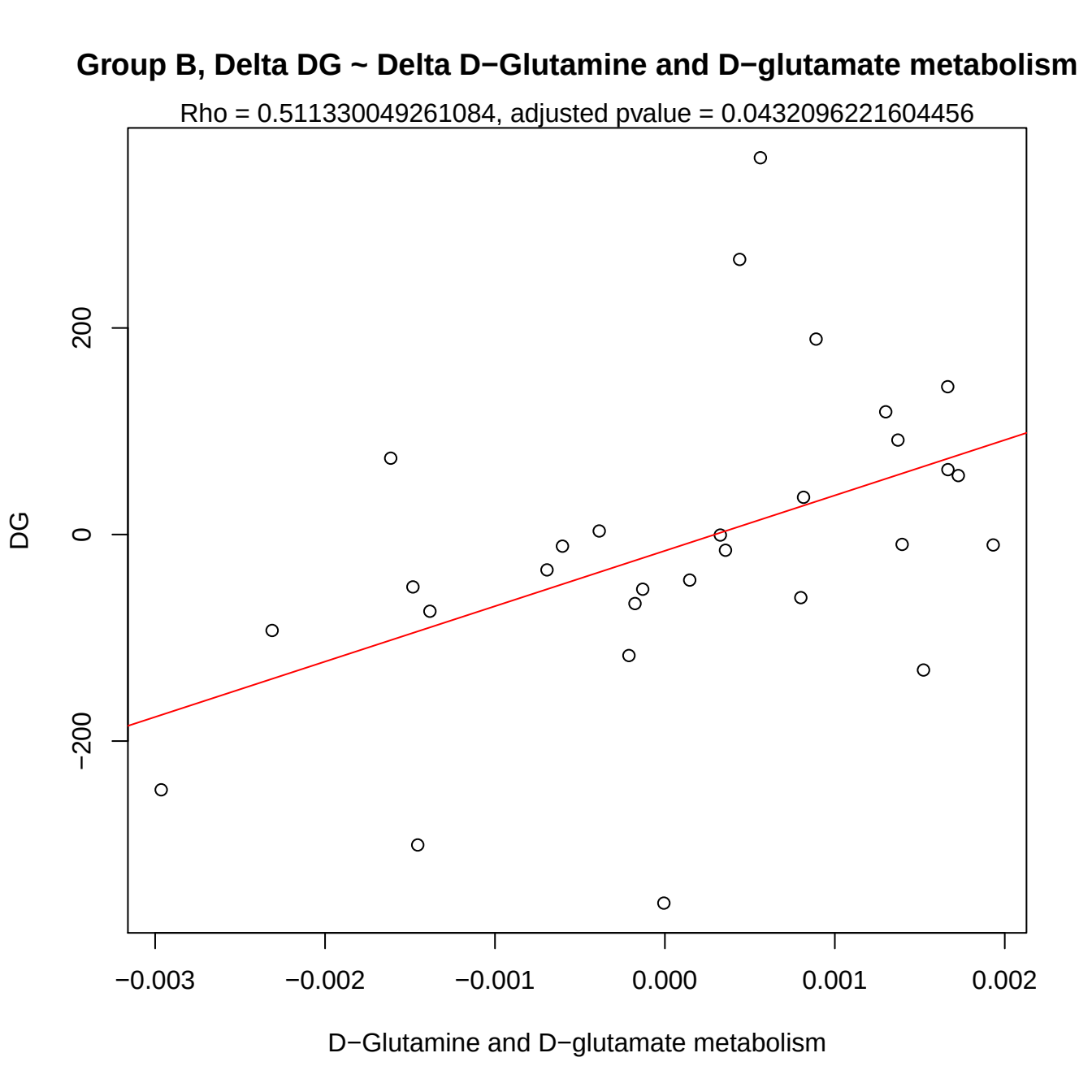

Group A, Delta OR ~ Delta Pyrimidine metabolism
Rho = −0.398442714126808, adjusted pvalue = 0.125763623044977
OR
2
0
−2
−4
−6
−0.010
−0.005
0.000
0.005
Pyrimidine metabolism

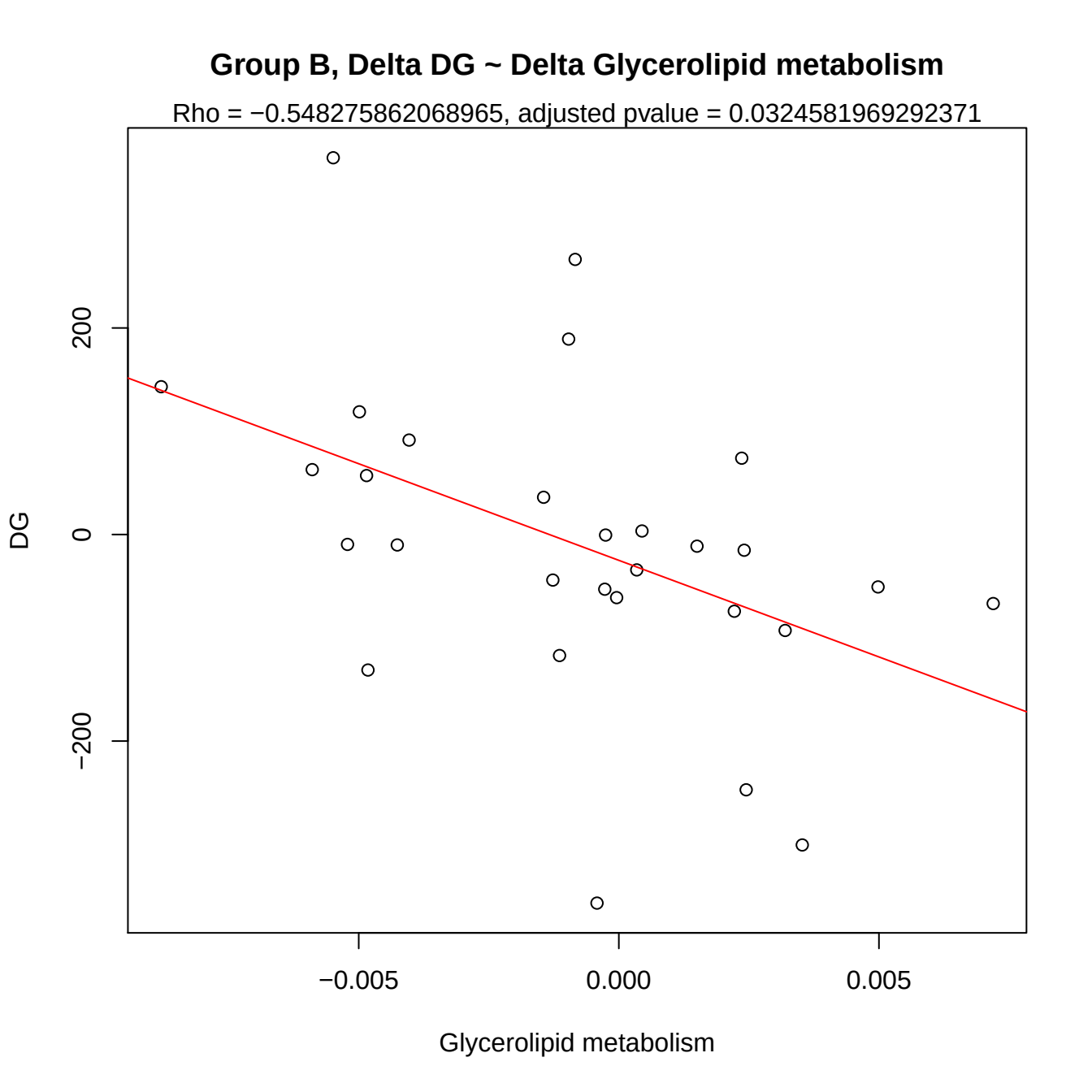

Group A, Delta OR ~ Delta Synthesis and degradation of ketone bodies
Rho = 0.323248053392658, adjusted pvalue = 0.192103493053386
OR
2
0
−2
−4
−6
−0.002
0.000
0.002
0.004
0.006
Synthesis and degradation of ketone bodies

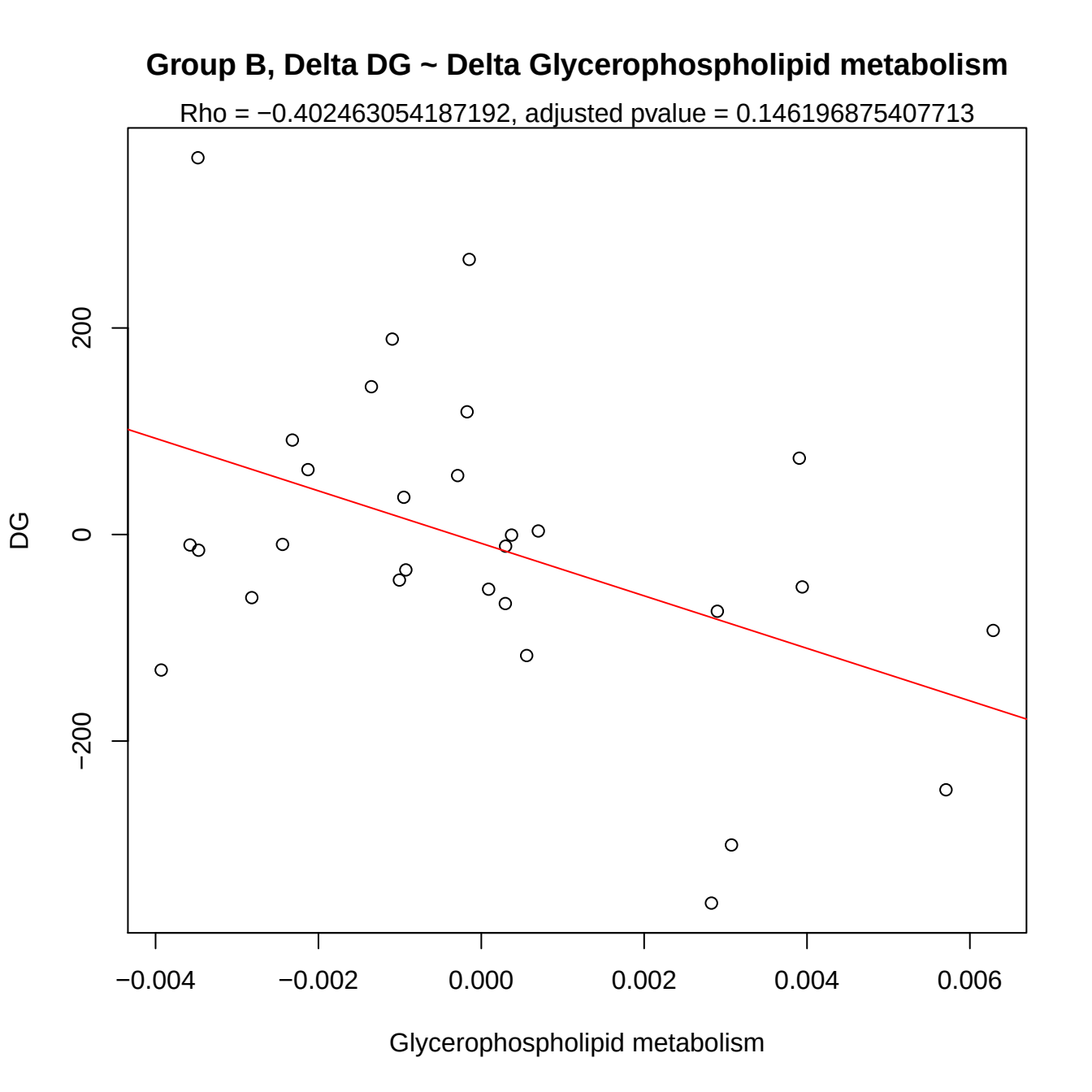

Group A, Delta OR ~ Delta Taurine and hypotaurine metabolism
Rho = −0.468298109010011, adjusted pvalue = 0.0794980197558761
OR
2
0
−2
−4
−6
−0.004
−0.002
0.000
0.002
Taurine and hypotaurine metabolism

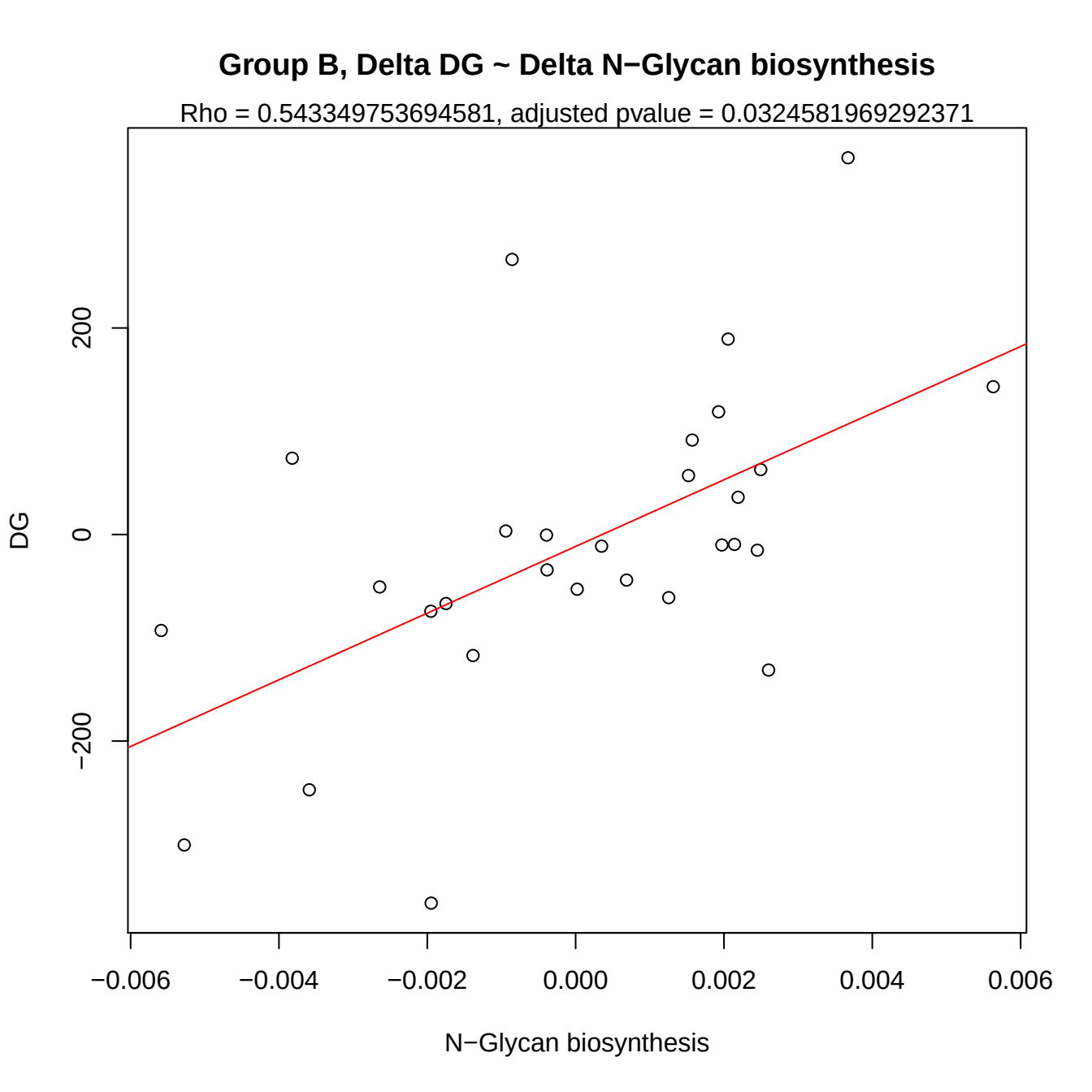

Group A, Delta OR ~ Delta Tryptophan metabolism
Rho = 0.45761957730812, adjusted pvalue = 0.0794980197558761
OR
2
0
−2
−4
−6
−0.002
0.000
0.002
0.004
Tryptophan metabolism

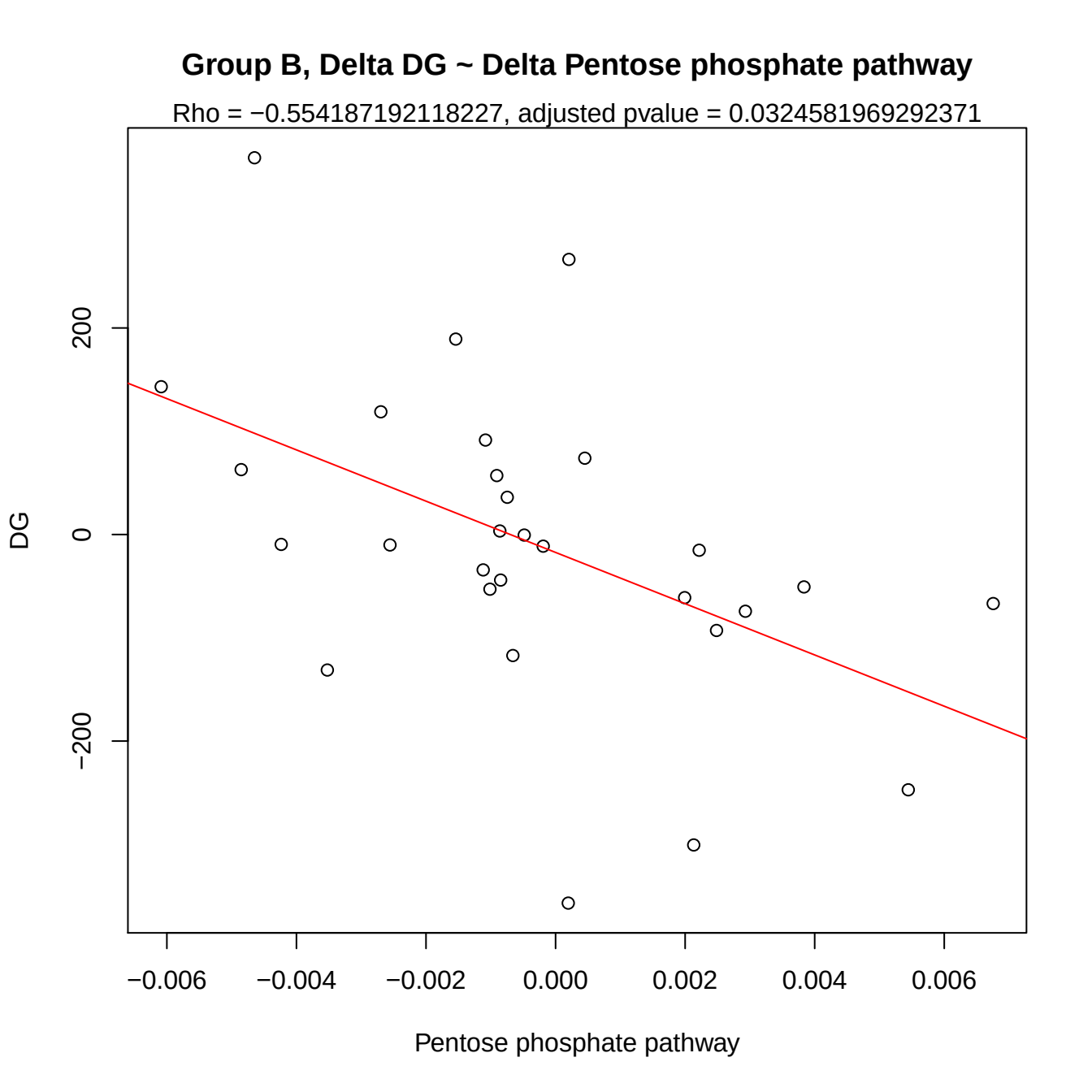

Group A, Delta OR ~ Delta beta−Alanine metabolism
Rho = −0.41357063403782, adjusted pvalue = 0.117605963176816
OR
2
0
−2
−4
−6
−0.006
−0.004
−0.002
0.000
0.002
0.004
0.006
beta−Alanine metabolism

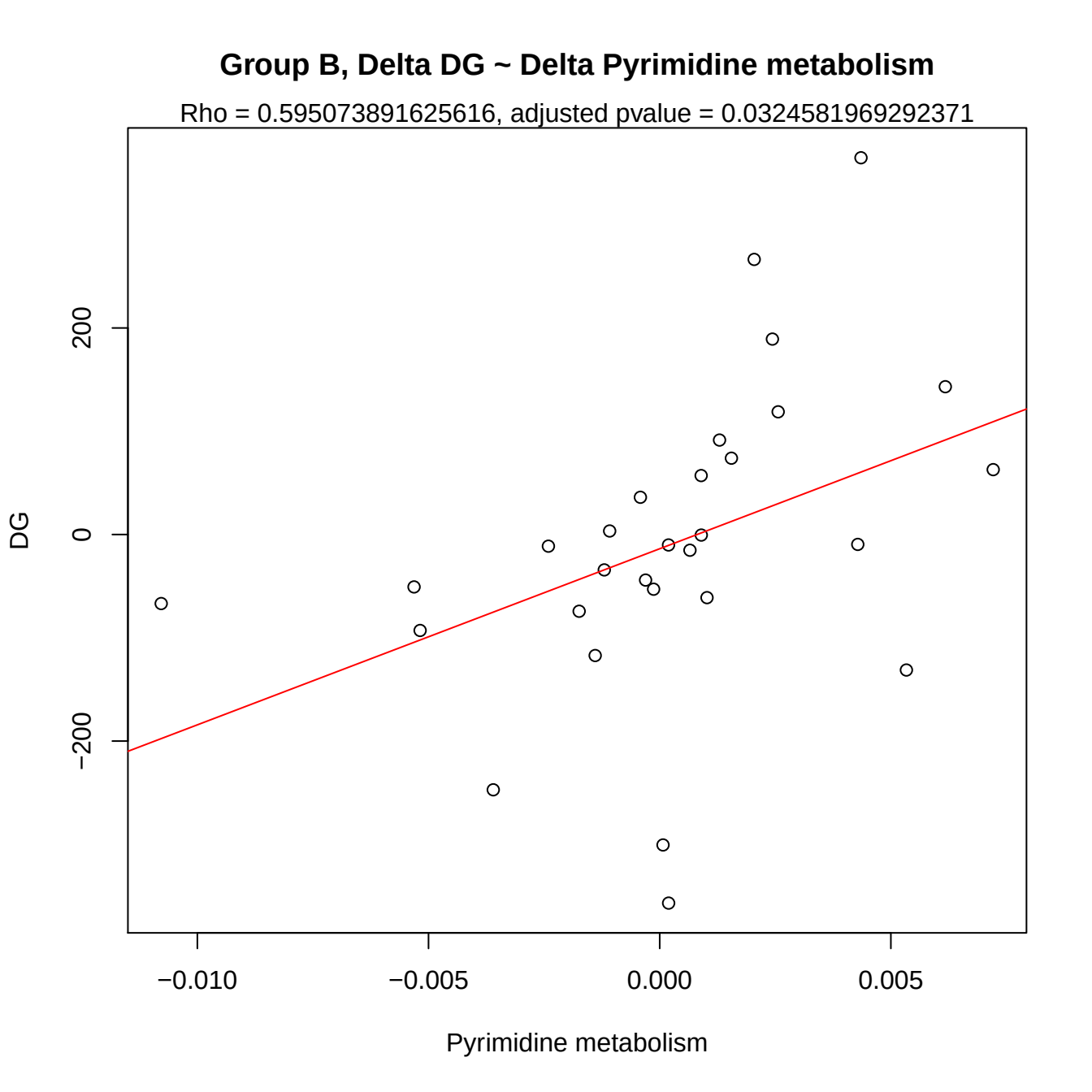

Group B, Delta DG ~ Delta D−Glutamine and D−glutamate metabolism
Rho = 0.511330049261084, adjusted pvalue = 0.0432096221604456
DG
200
0
−200
−0.003
−0.002
−0.001
0.000
0.001
0.002
D−Glutamine and D−glutamate metabolism

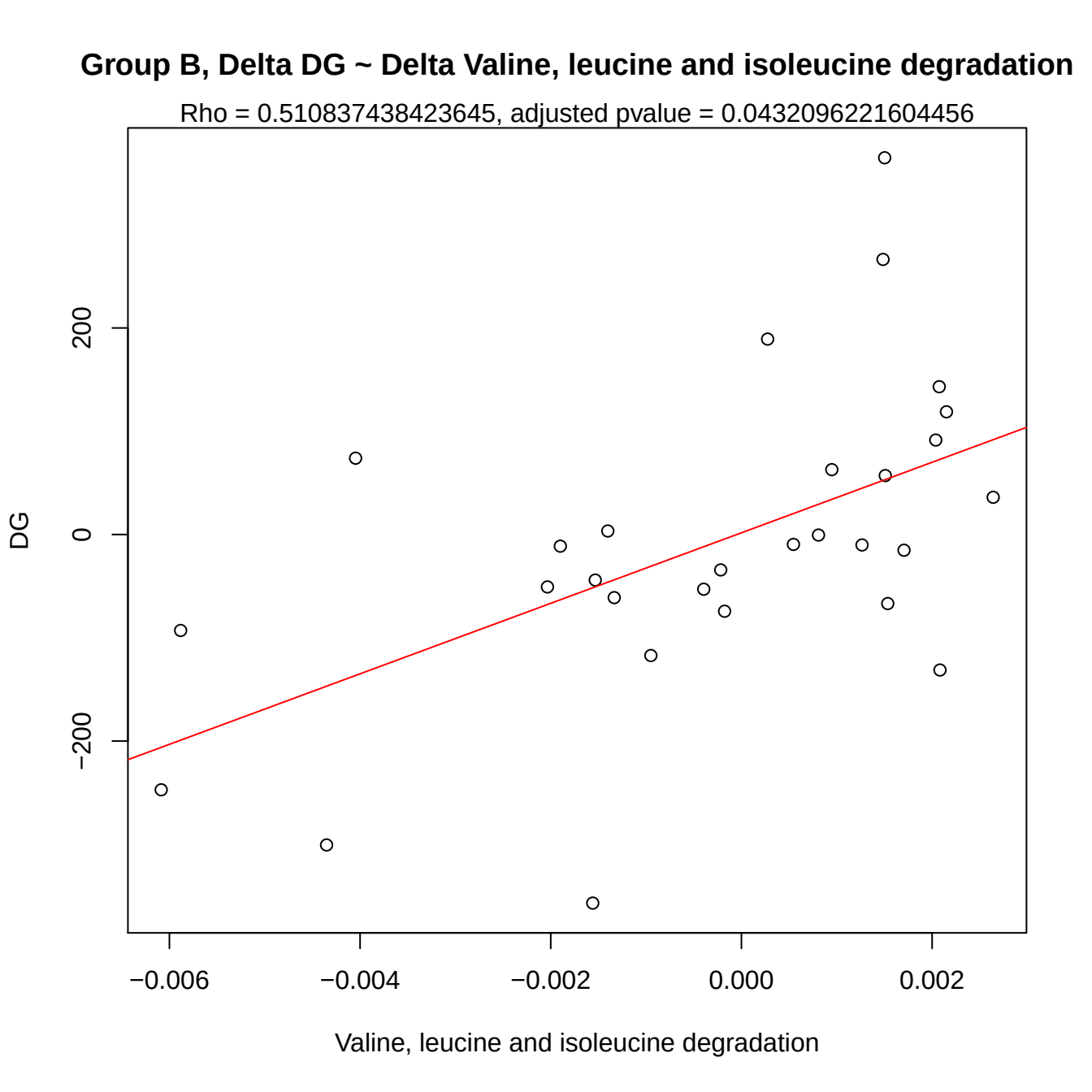

Group B, Delta DG ~ Delta Glycerolipid metabolism
Rho = −0.548275862068965, adjusted pvalue = 0.0324581969292371
DG
200
0
−200
−0.005
0.000
0.005
Glycerolipid metabolism

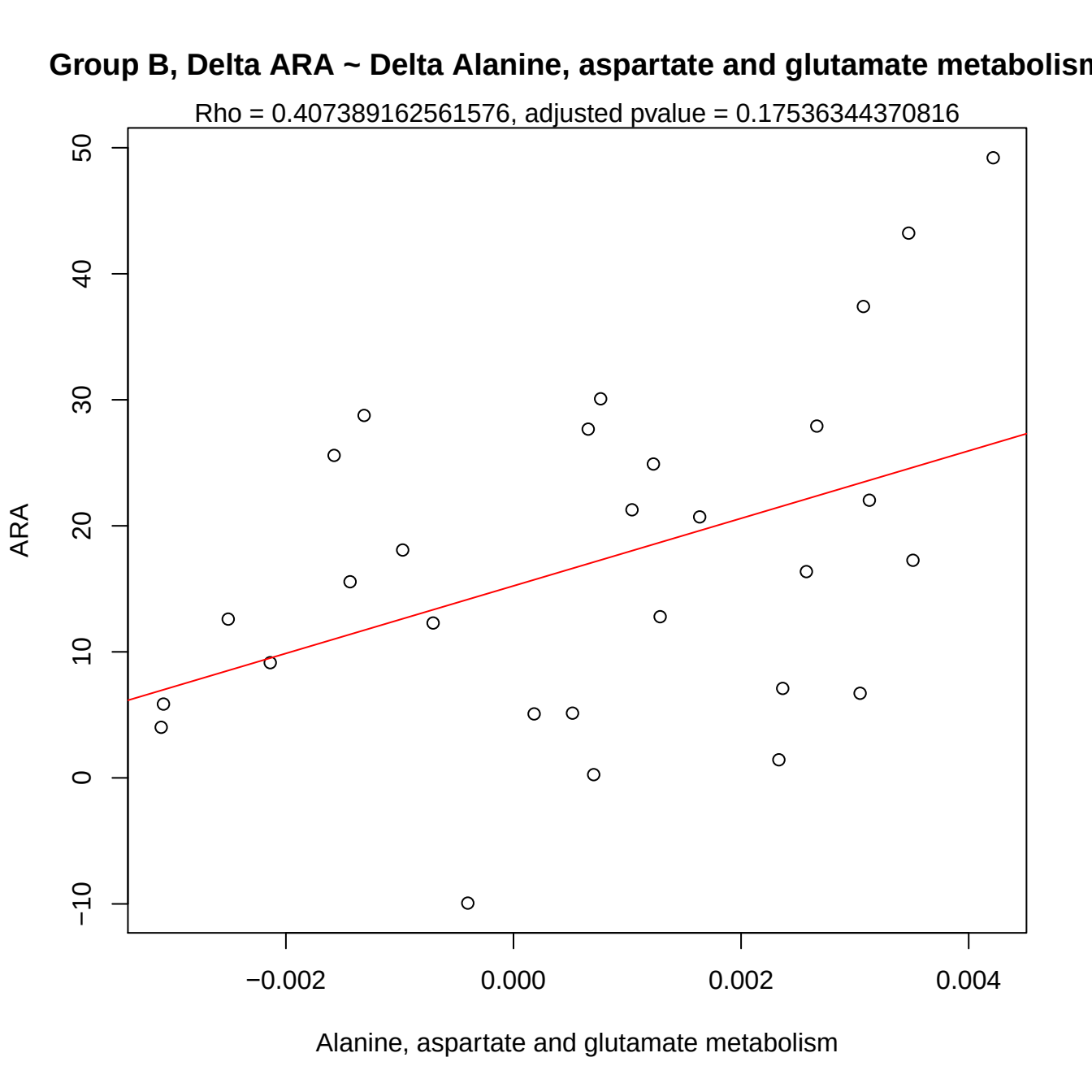

Group B, Delta DG ~ Delta Glycerophospholipid metabolism
Rho = −0.402463054187192, adjusted pvalue = 0.146196875407713
DG
200
0
−200
−0.004
−0.002
0.000
0.002
0.004
0.006
Glycerophospholipid metabolism

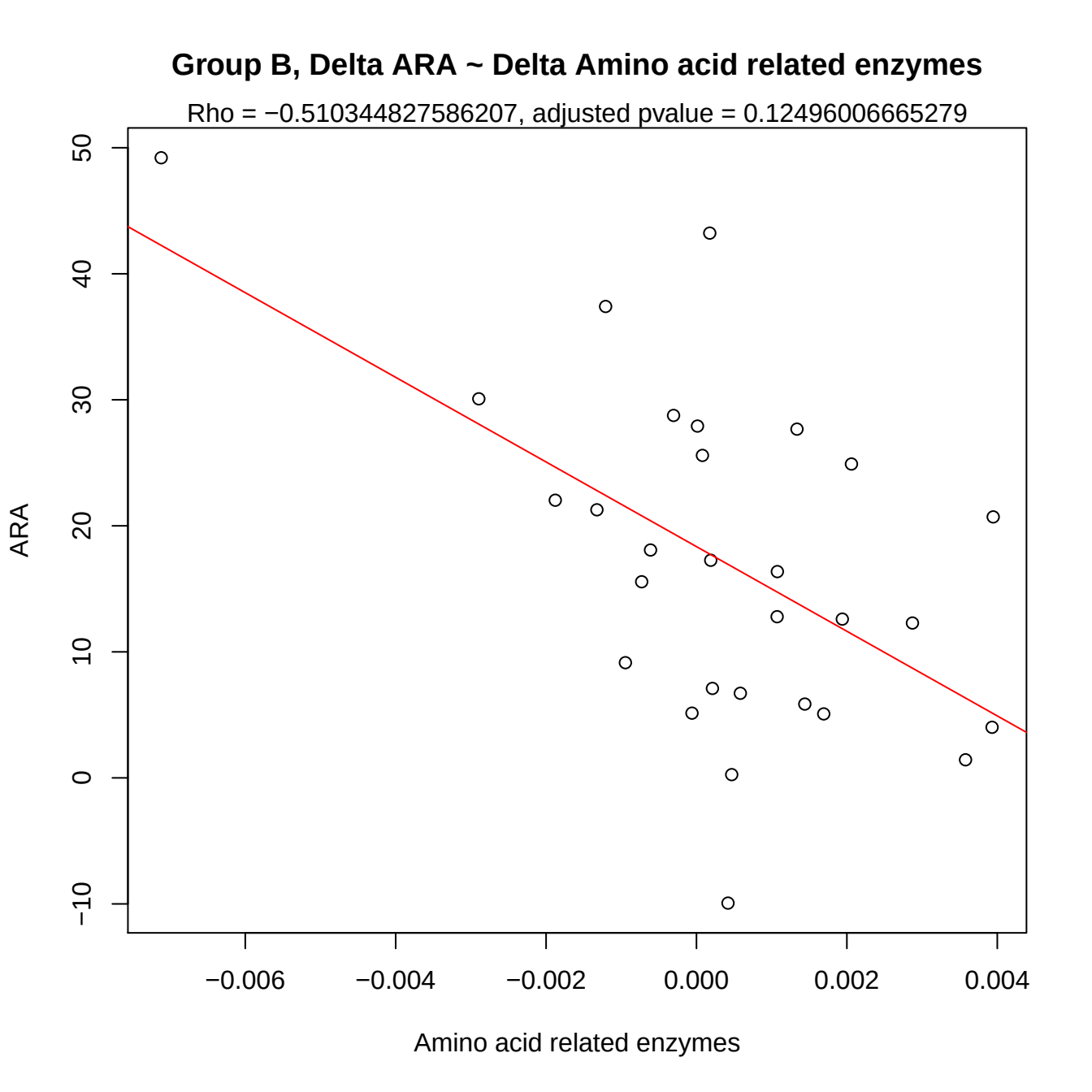

Group B, Delta DG ~ Delta N−Glycan biosynthesis
Rho = 0.543349753694581, adjusted pvalue = 0.0324581969292371
DG
200
0
−200
−0.006
−0.004
−0.002
0.000
0.002
0.004
0.006
N−Glycan biosynthesis

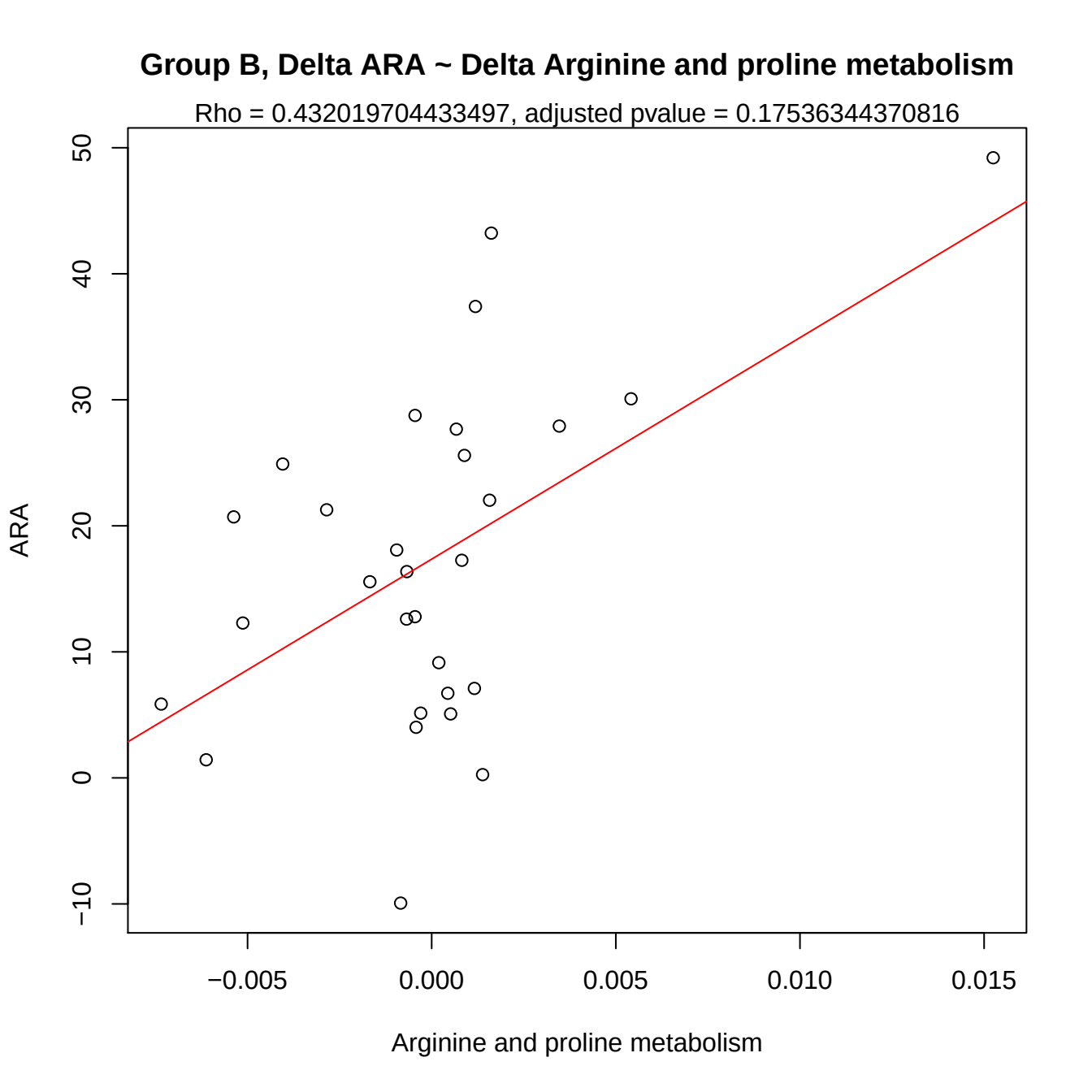

Group B, Delta DG ~ Delta Pentose phosphate pathway
Rho = −0.554187192118227, adjusted pvalue = 0.0324581969292371
DG
200
0
−200
−0.006
−0.004
−0.002
0.000
0.002
0.004
0.006
Pentose phosphate pathway

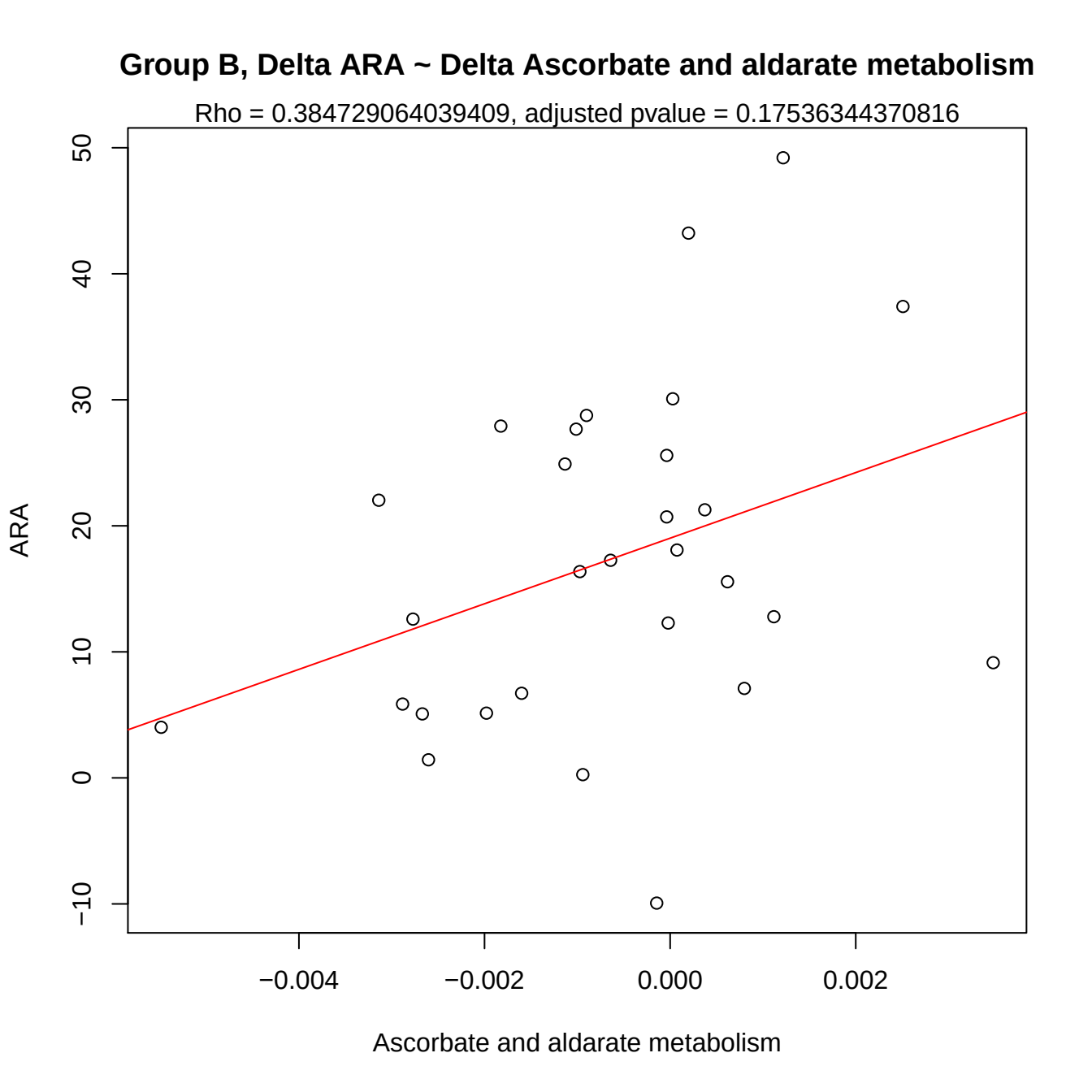

Group B, Delta DG ~ Delta Pyrimidine metabolism
Rho = 0.595073891625616, adjusted pvalue = 0.0324581969292371
DG
200
0
−200
−0.010
−0.005
0.000
0.005
Pyrimidine metabolism

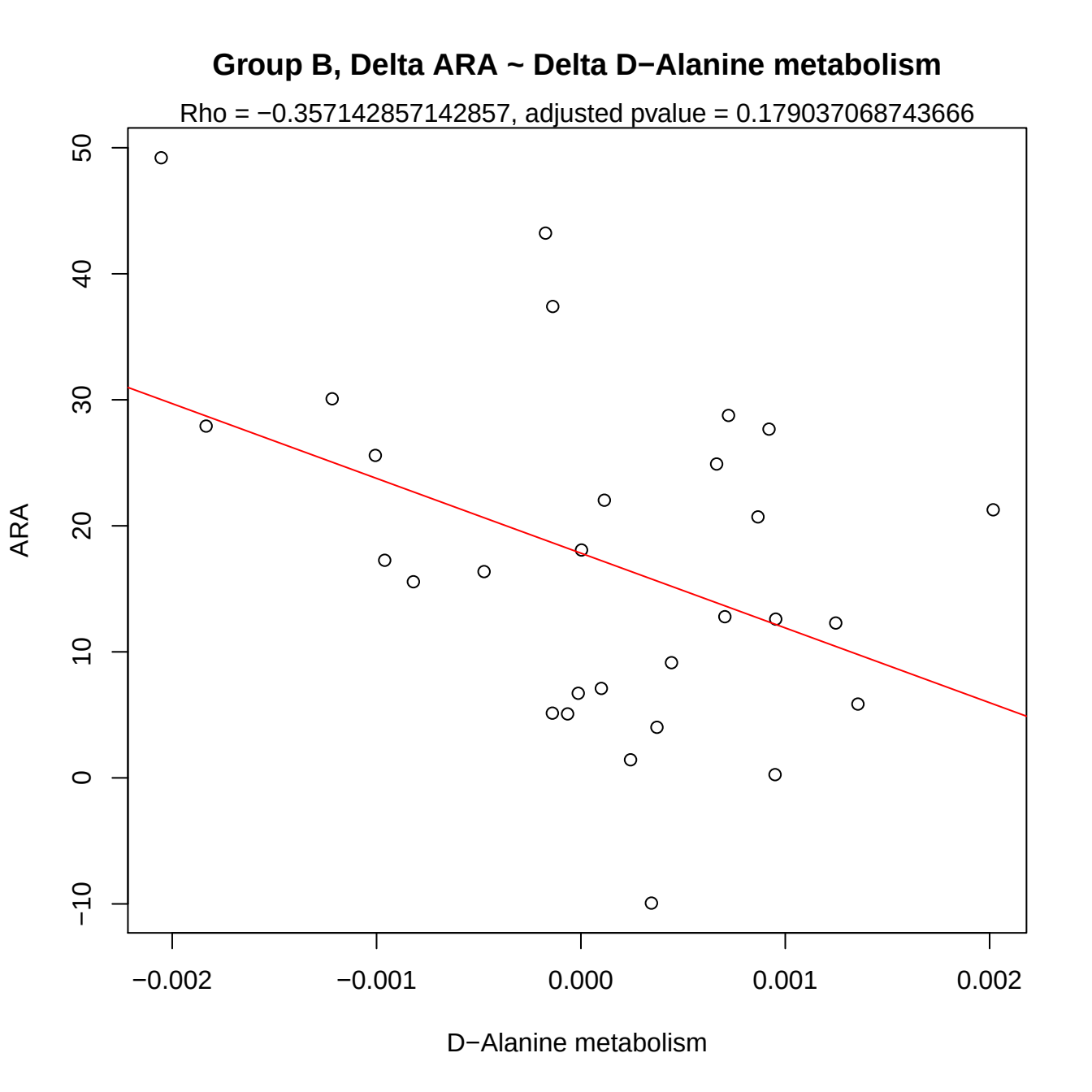

Group B, Delta DG ~ Delta Valine, leucine and isoleucine degradation
Rho = 0.510837438423645, adjusted pvalue = 0.0432096221604456
DG
200
0
−200
−0.006
−0.004
−0.002
0.000
0.002
Valine, leucine and isoleucine degradation

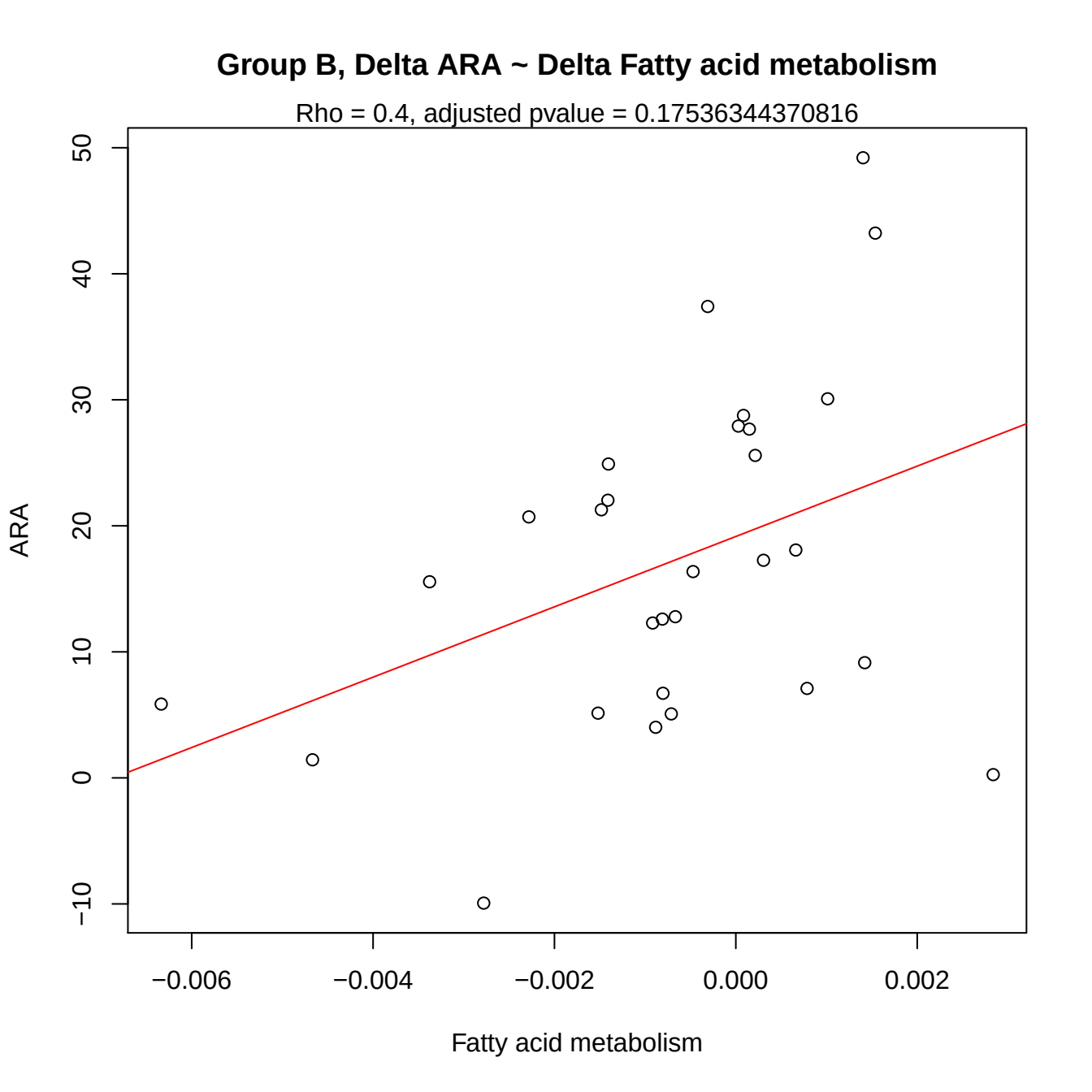

Group B, Delta ARA ~ Delta Alanine, aspartate and glutamate metabolism
Rho = 0.407389162561576, adjusted pvalue = 0.17536344370816
ARA
50
40
30
20
10
0
−10
−0.002
0.000
0.002
0.004
Alanine, aspartate and glutamate metabolism

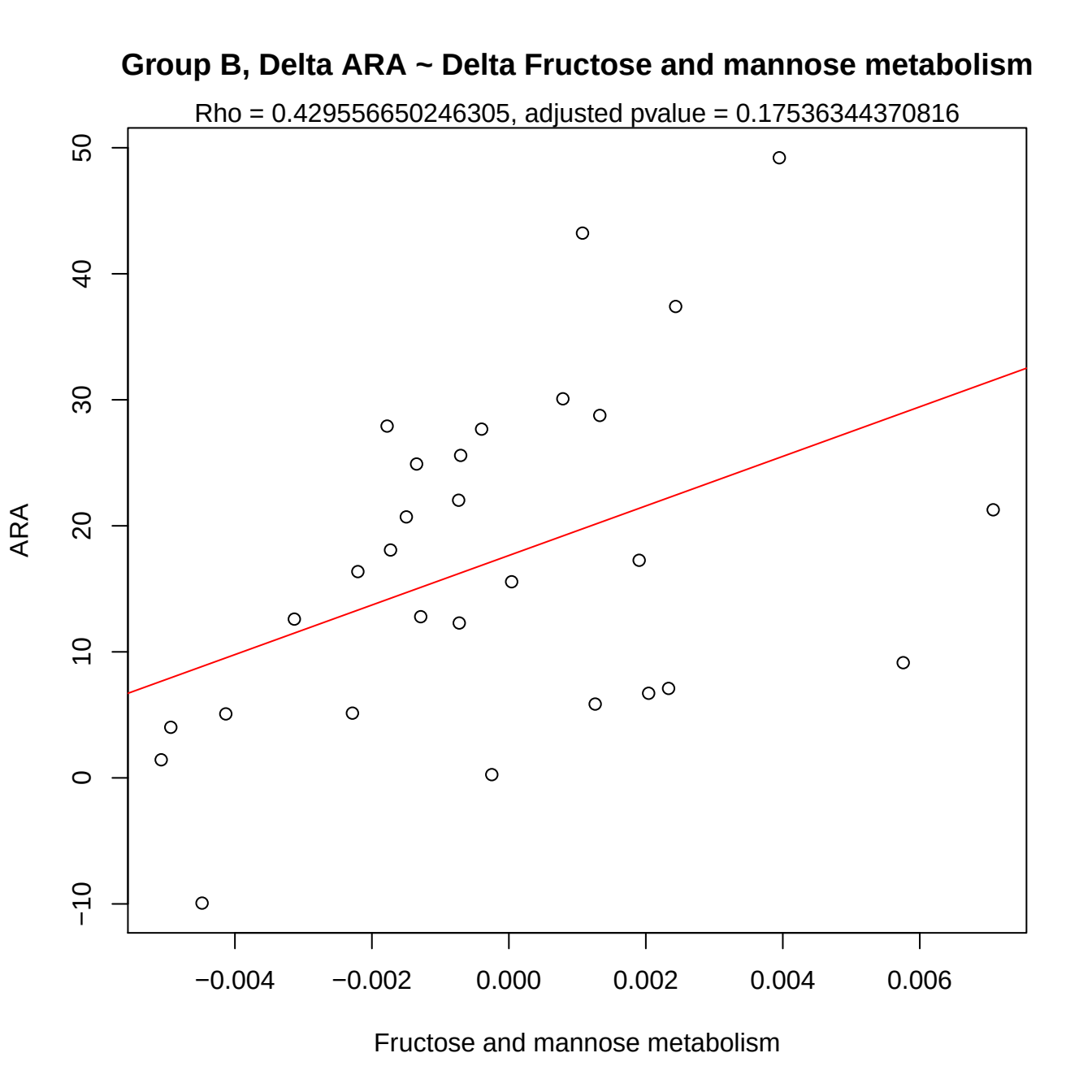

Group B, Delta ARA ~ Delta Amino acid related enzymes
Rho = −0.510344827586207, adjusted pvalue = 0.12496006665279
ARA
50
40
30
20
10
0
−10
−0.006
−0.004
−0.002
0.000
0.002
0.004
Amino acid related enzymes

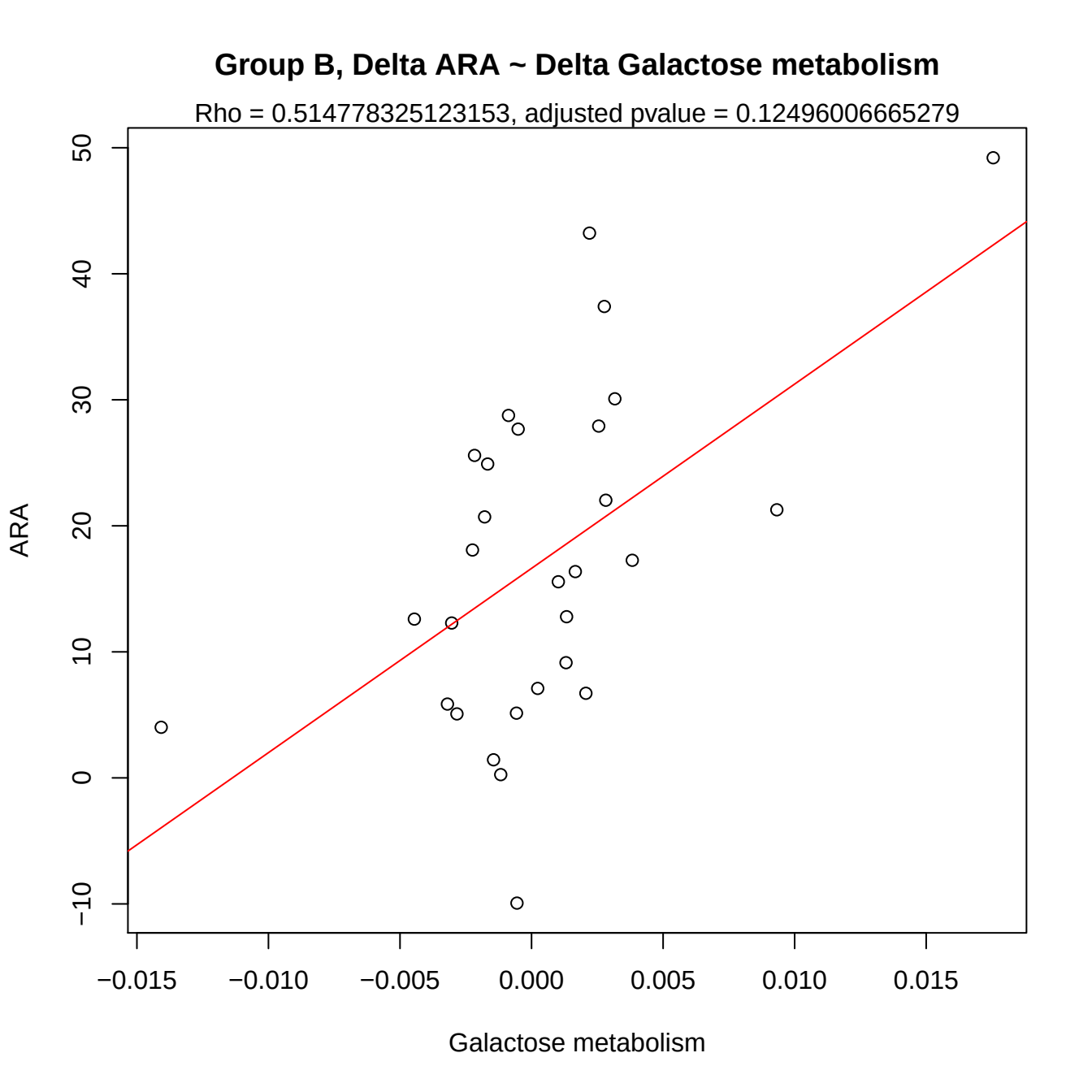

Group B, Delta ARA ~ Delta Arginine and proline metabolism
Rho = 0.432019704433497, adjusted pvalue = 0.17536344370816
ARA
50
40
30
20
10
0
−10
−0.005
0.000
0.005
0.010
0.015
Arginine and proline metabolism

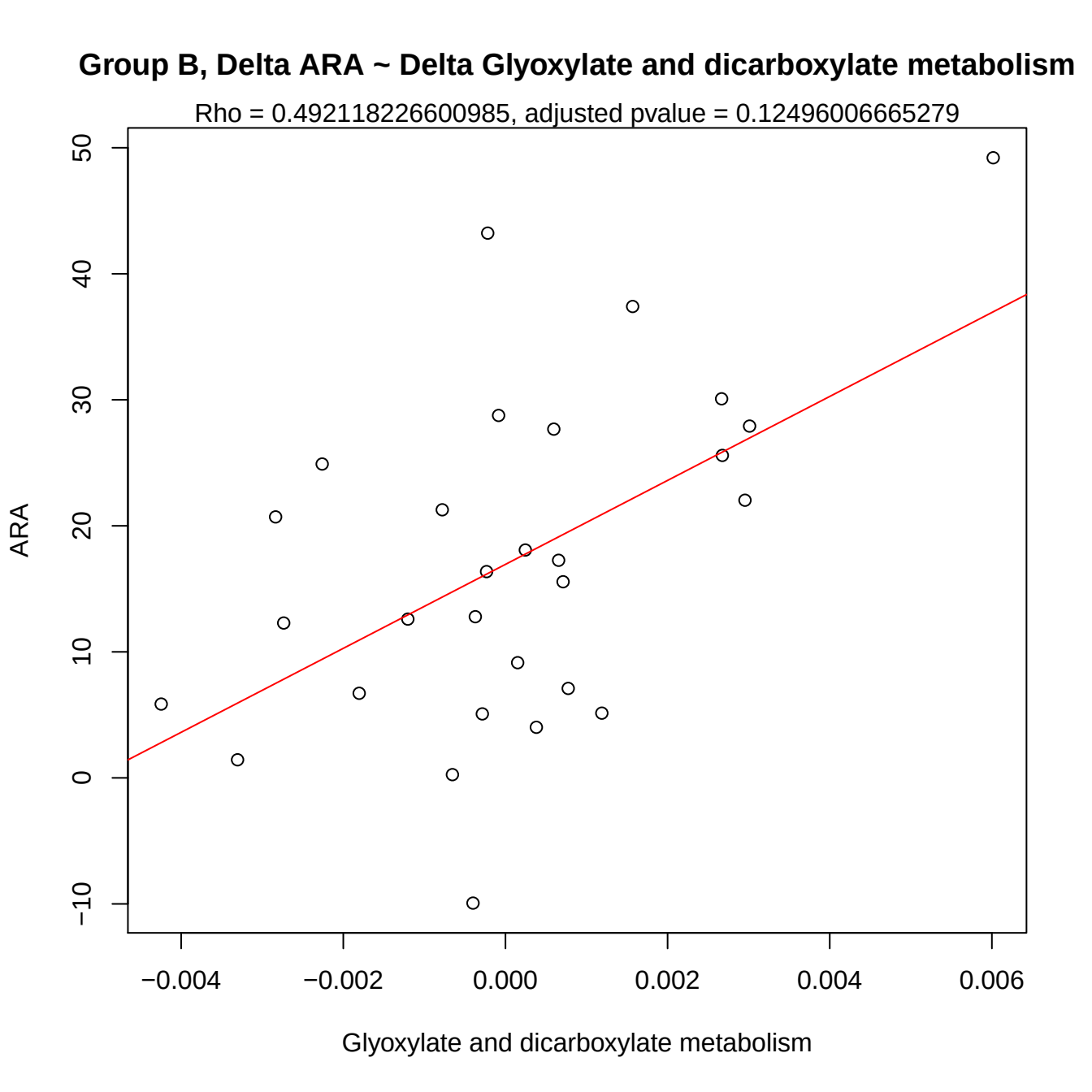

Group B, Delta ARA ~ Delta Ascorbate and aldarate metabolism
Rho = 0.384729064039409, adjusted pvalue = 0.17536344370816
ARA
50
40
30
20
10
0
−10
−0.004
−0.002
0.000
0.002
Ascorbate and aldarate metabolism

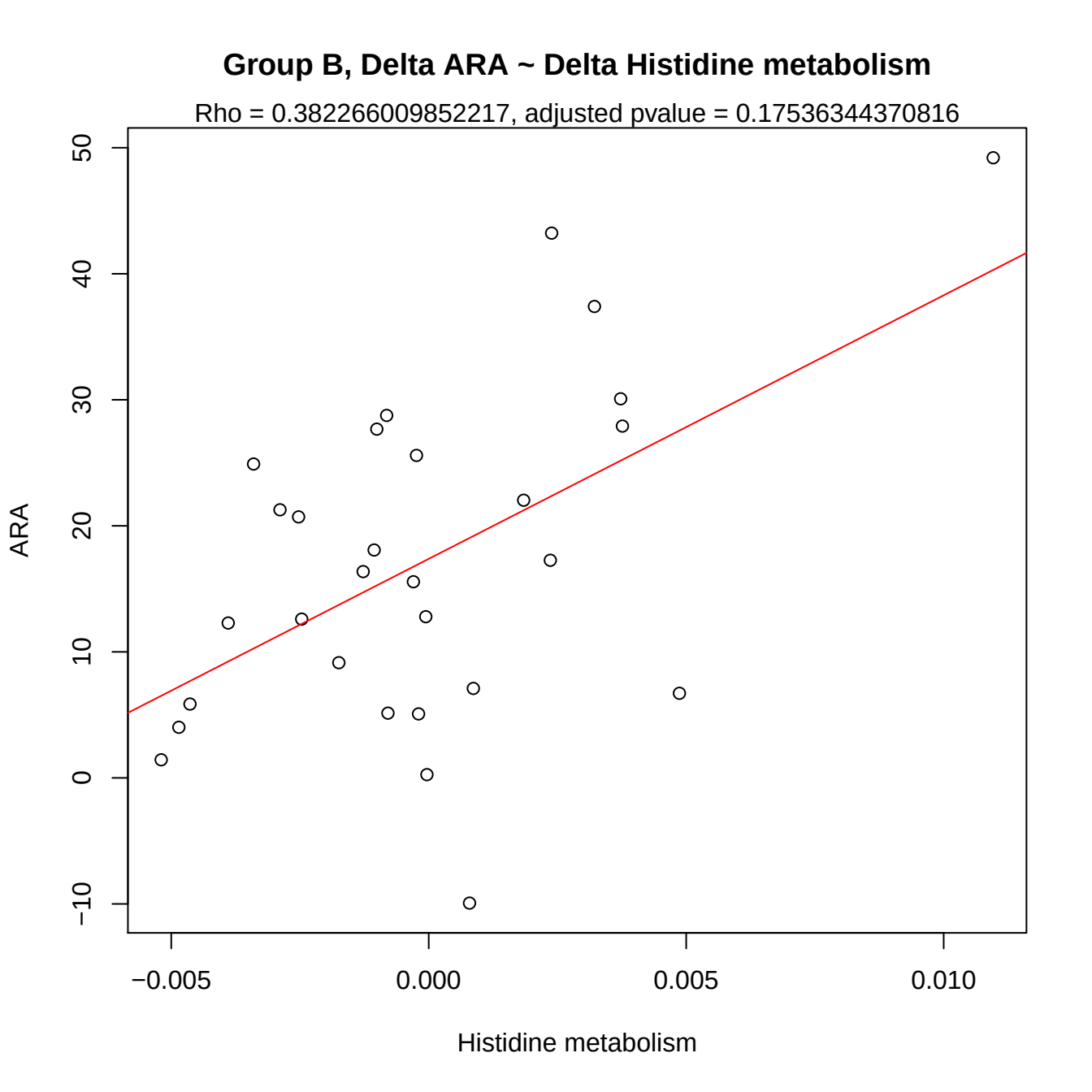

Group B, Delta ARA ~ Delta D−Alanine metabolism
Rho = −0.357142857142857, adjusted pvalue = 0.179037068743666
ARA
50
40
30
20
10
0
−10
−0.002
−0.001
0.000
0.001
0.002
D−Alanine metabolism

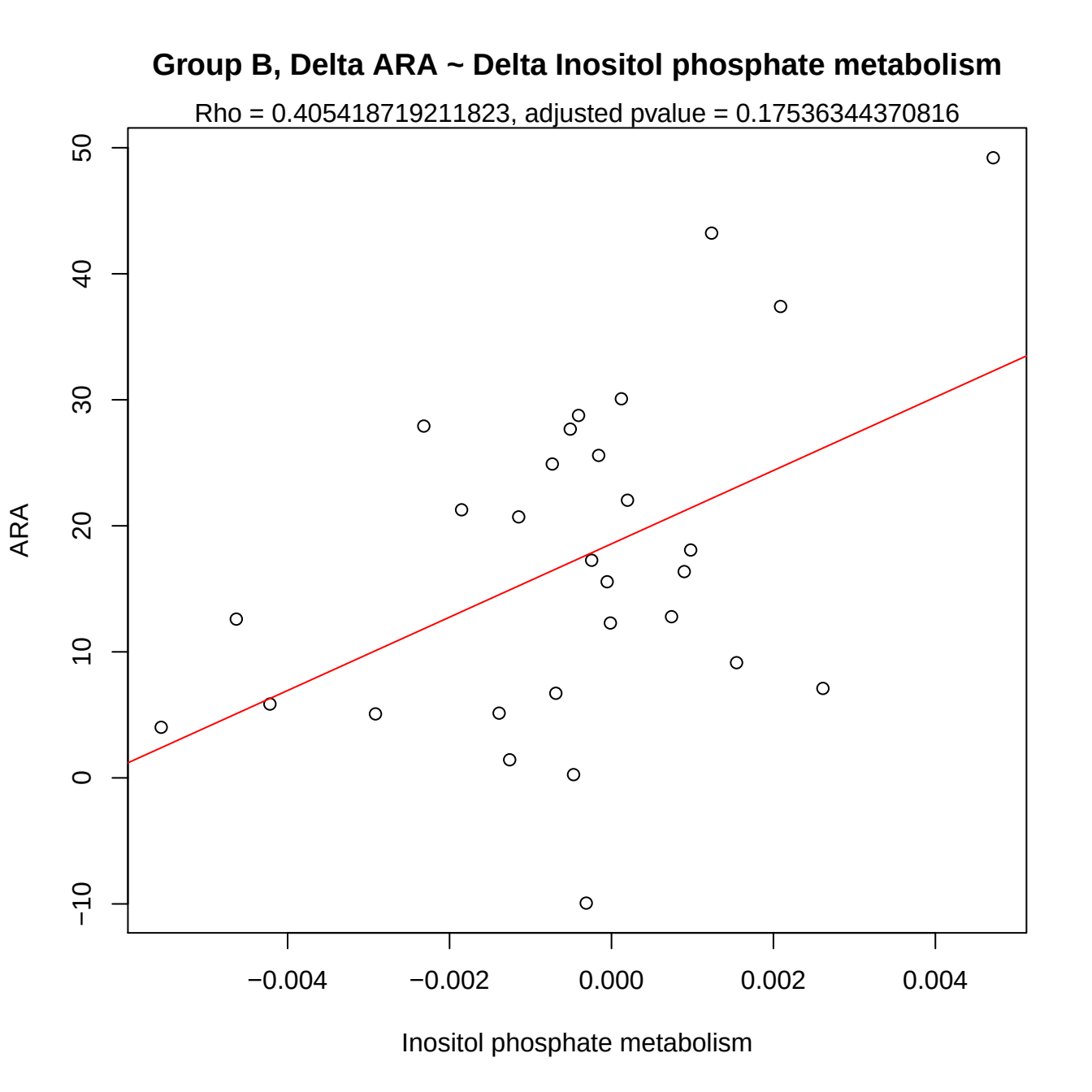

Group B, Delta ARA ~ Delta Fatty acid metabolism
Rho = 0.4, adjusted pvalue = 0.17536344370816
ARA
50
40
30
20
10
0
−10
−0.006
−0.004
−0.002
0.000
0.002
Fatty acid metabolism

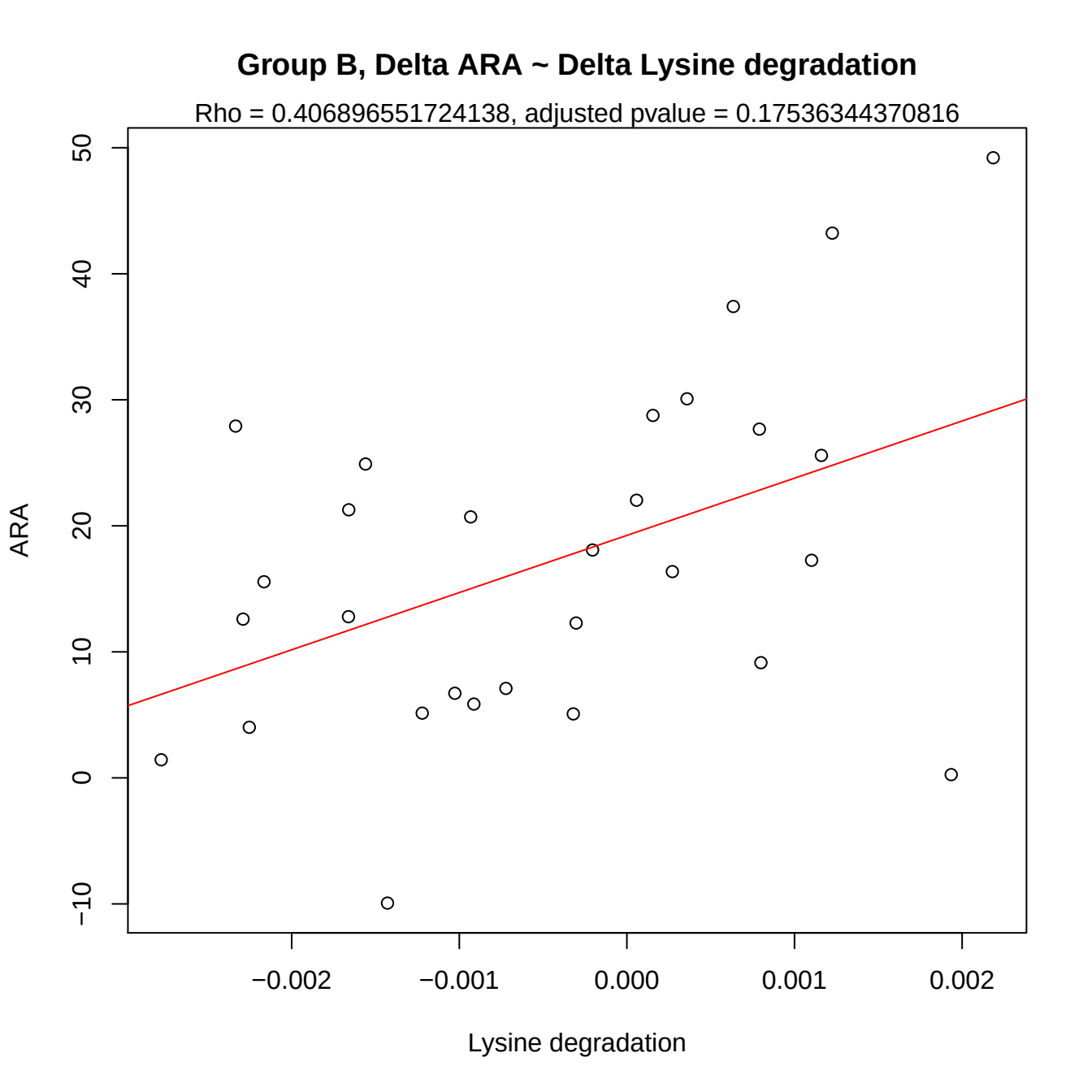

Group B, Delta ARA ~ Delta Fructose and mannose metabolism
Rho = 0.429556650246305, adjusted pvalue = 0.17536344370816
ARA
50
40
30
20
10
0
−10
−0.004
−0.002
0.000
0.002
0.004
0.006
Fructose and mannose metabolism

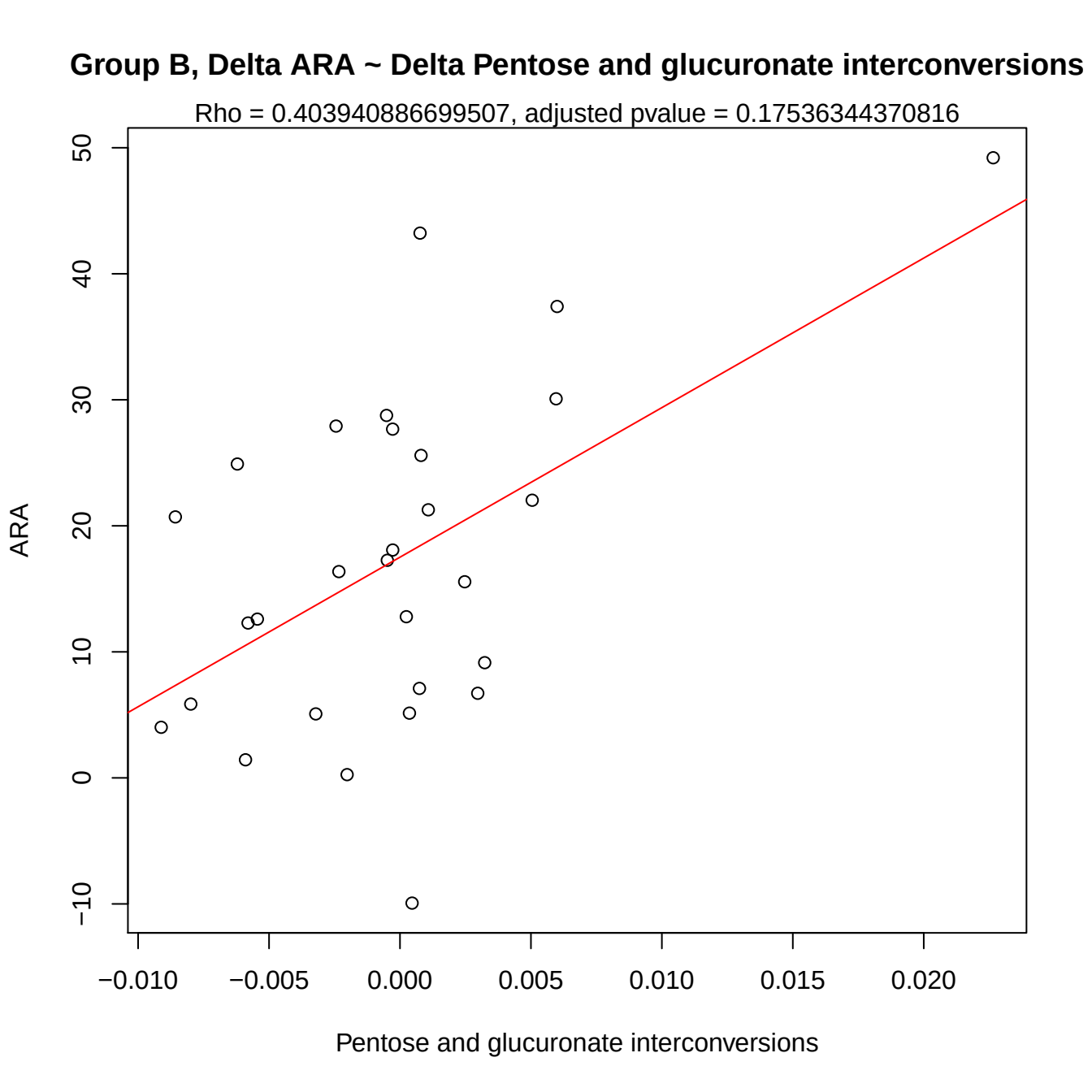

Group B, Delta ARA ~ Delta Galactose metabolism
Rho = 0.514778325123153, adjusted pvalue = 0.12496006665279
ARA
50
40
30
20
10
0
−10
−0.015
−0.010
−0.005
0.000
0.005
0.010
0.015
Galactose metabolism

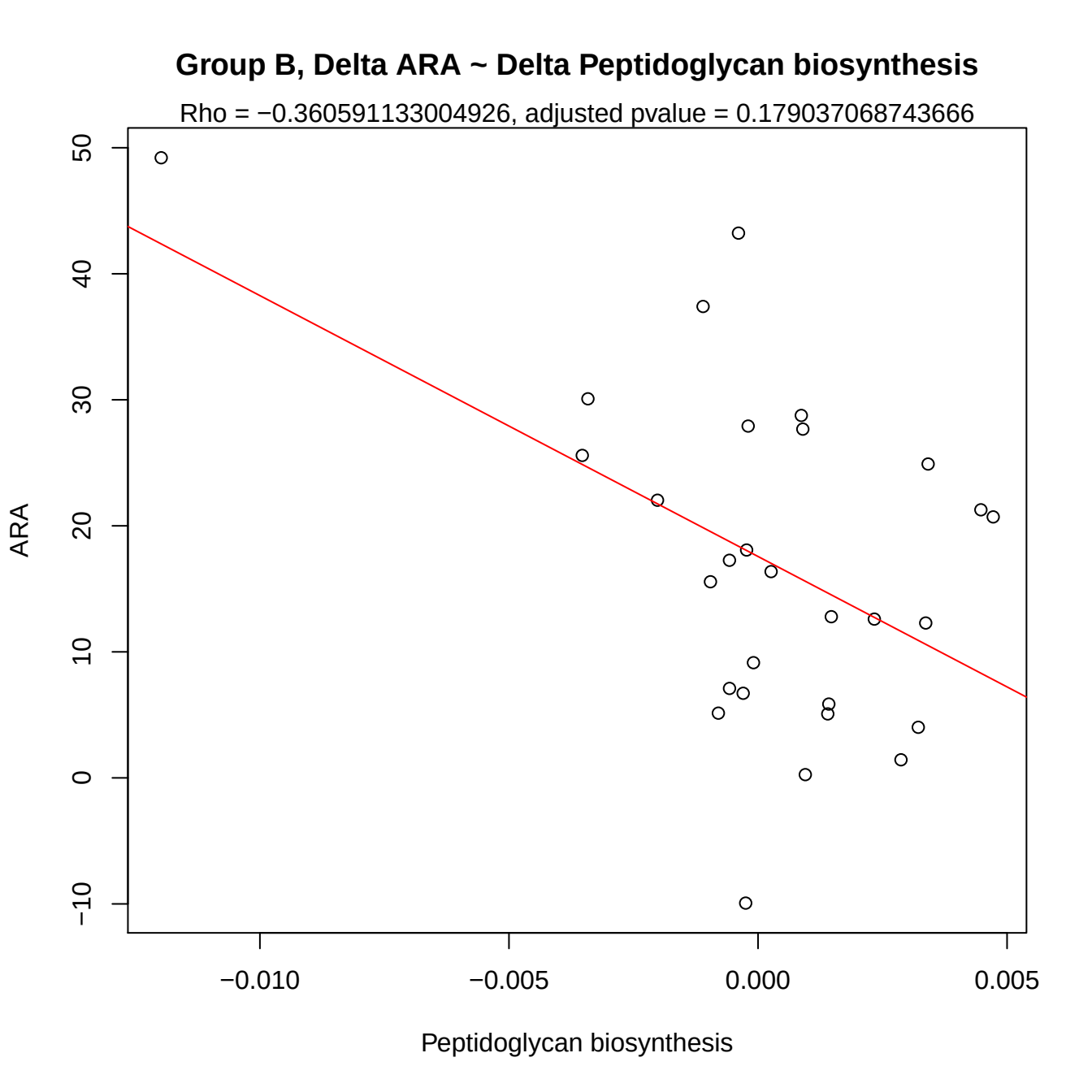

Group B, Delta ARA ~ Delta Glyoxylate and dicarboxylate metabolism
Rho = 0.492118226600985, adjusted pvalue = 0.12496006665279
ARA
50
40
30
20
10
0
−10
−0.004
−0.002
0.000
0.002
0.004
0.006
Glyoxylate and dicarboxylate metabolism

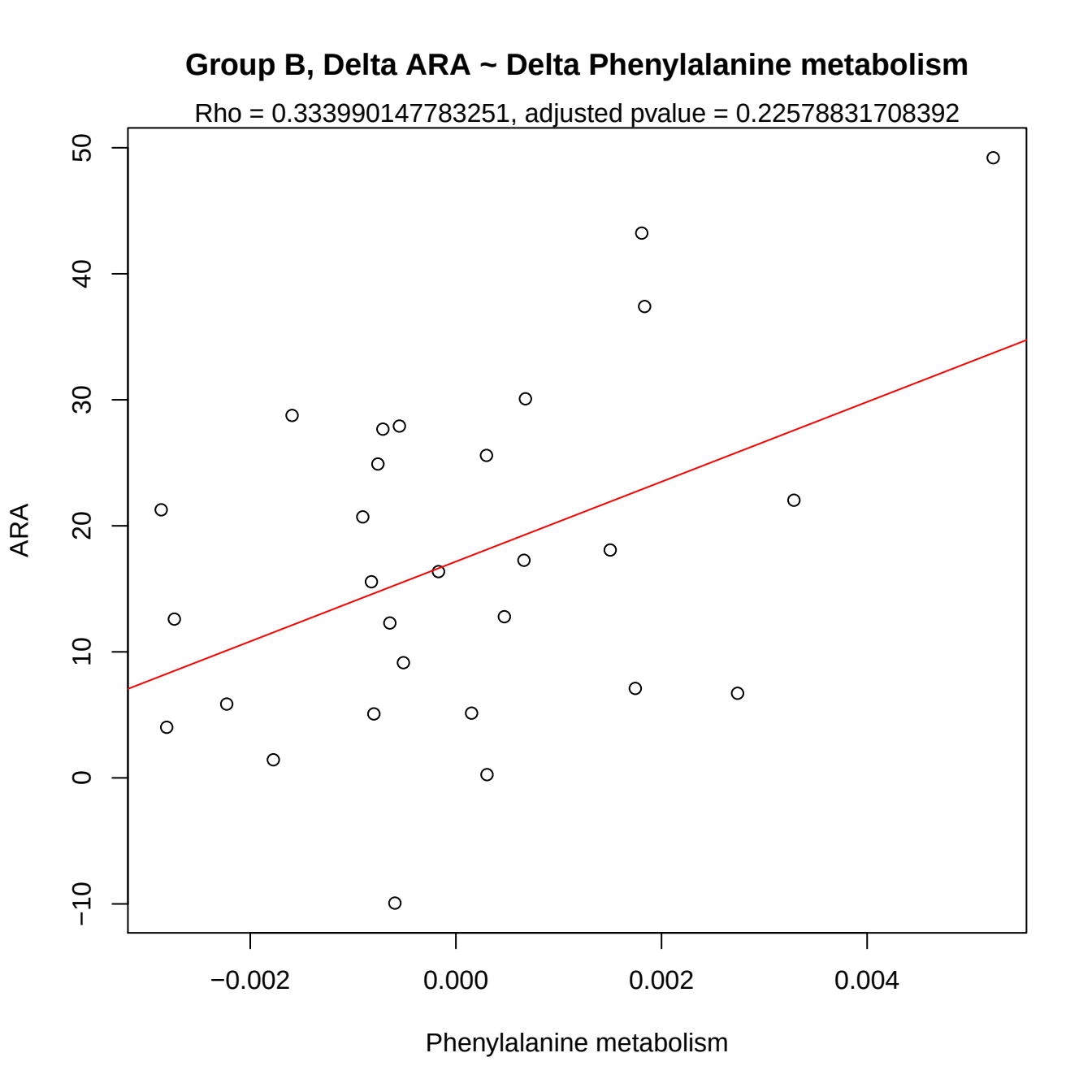

Group B, Delta ARA ~ Delta Histidine metabolism
Rho = 0.382266009852217, adjusted pvalue = 0.17536344370816
ARA
50
40
30
20
10
0
−10
−0.005
0.000
0.005
0.010
Histidine metabolism

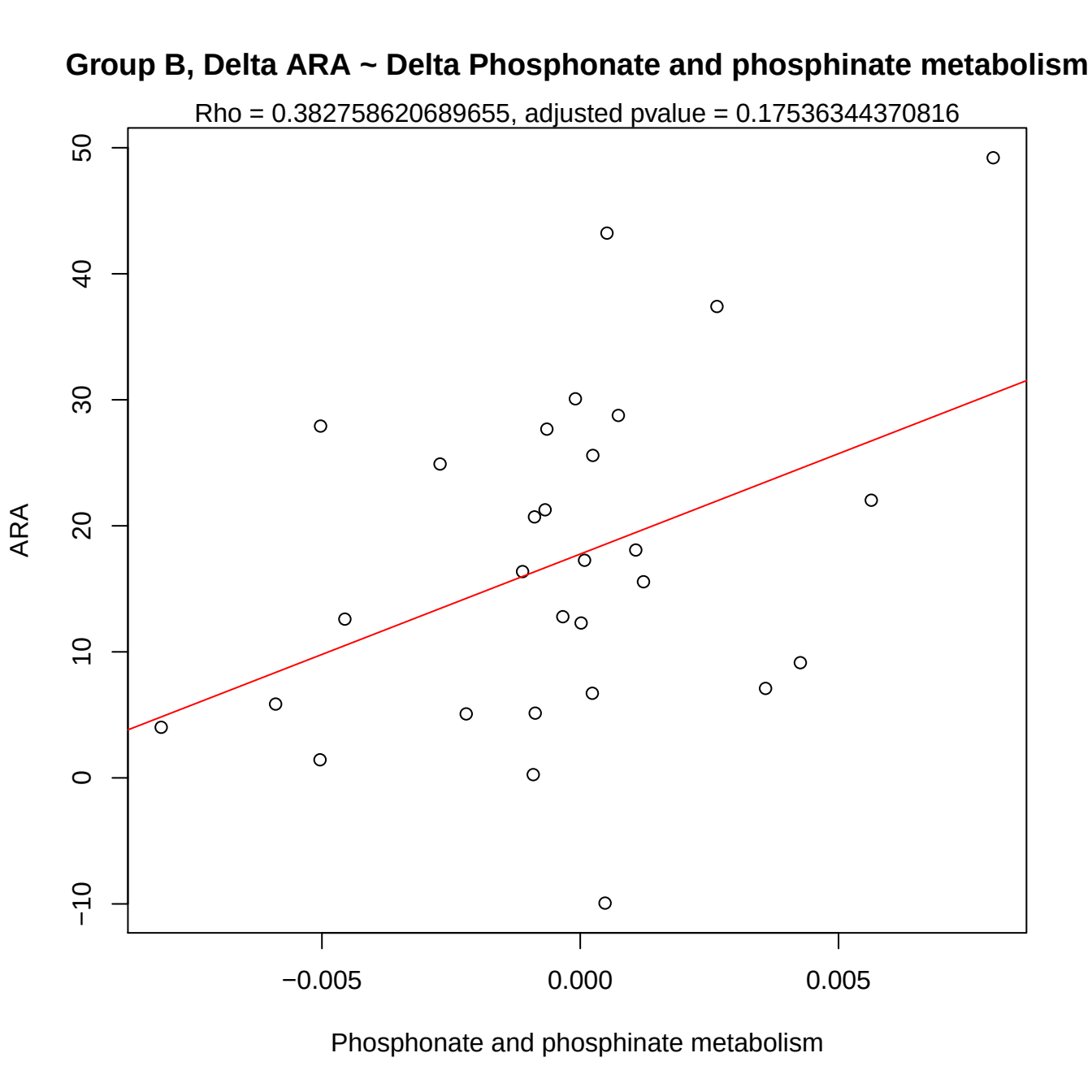

Group B, Delta ARA ~ Delta Inositol phosphate metabolism
Rho = 0.405418719211823, adjusted pvalue = 0.17536344370816
ARA
50
40
30
20
10
0
−10
−0.004
−0.002
0.000
0.002
0.004
Inositol phosphate metabolism

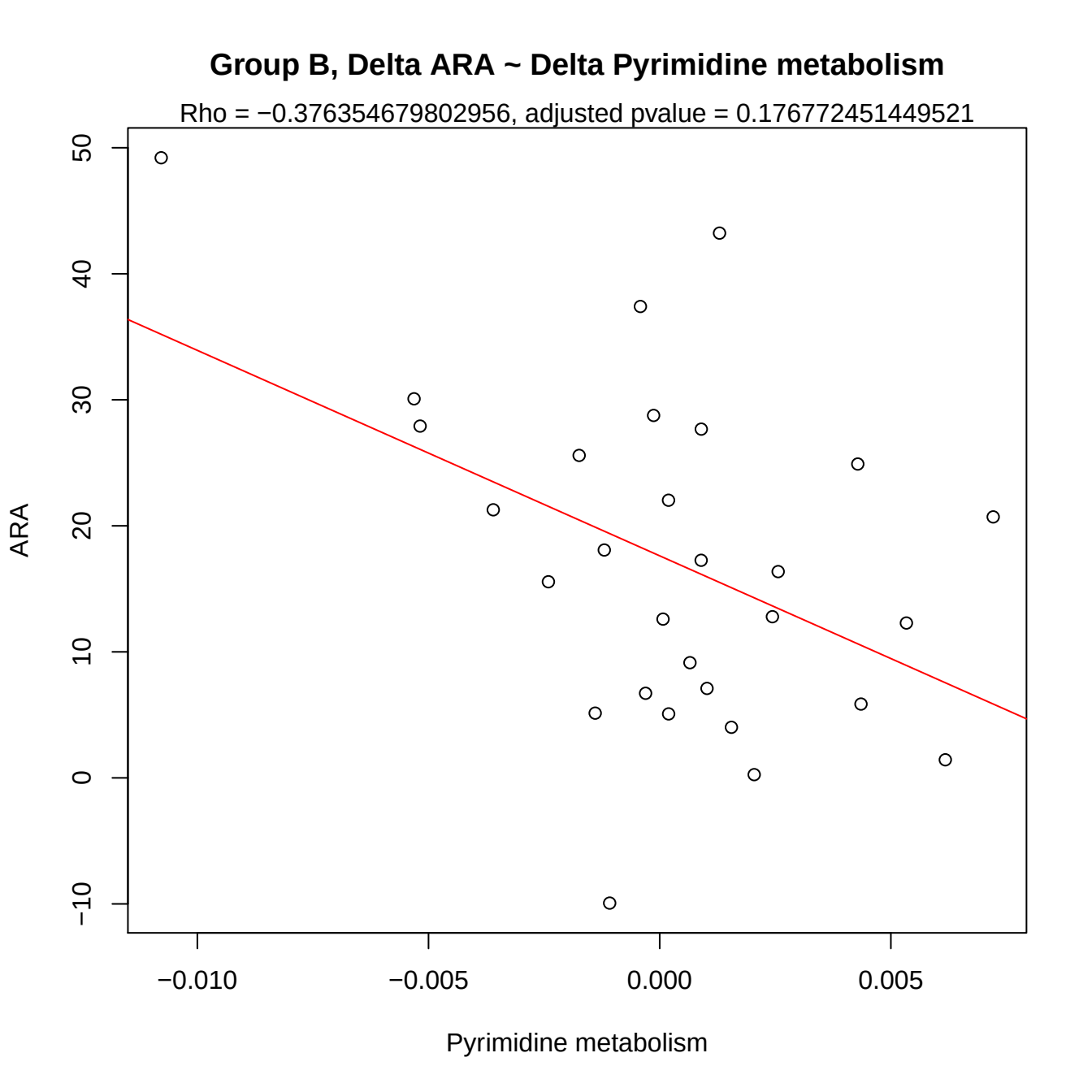

Group B, Delta ARA ~ Delta Lysine degradation
Rho = 0.406896551724138, adjusted pvalue = 0.17536344370816
ARA
50
40
30
20
10
0
−10
−0.002
−0.001
0.000
0.001
0.002
Lysine degradation

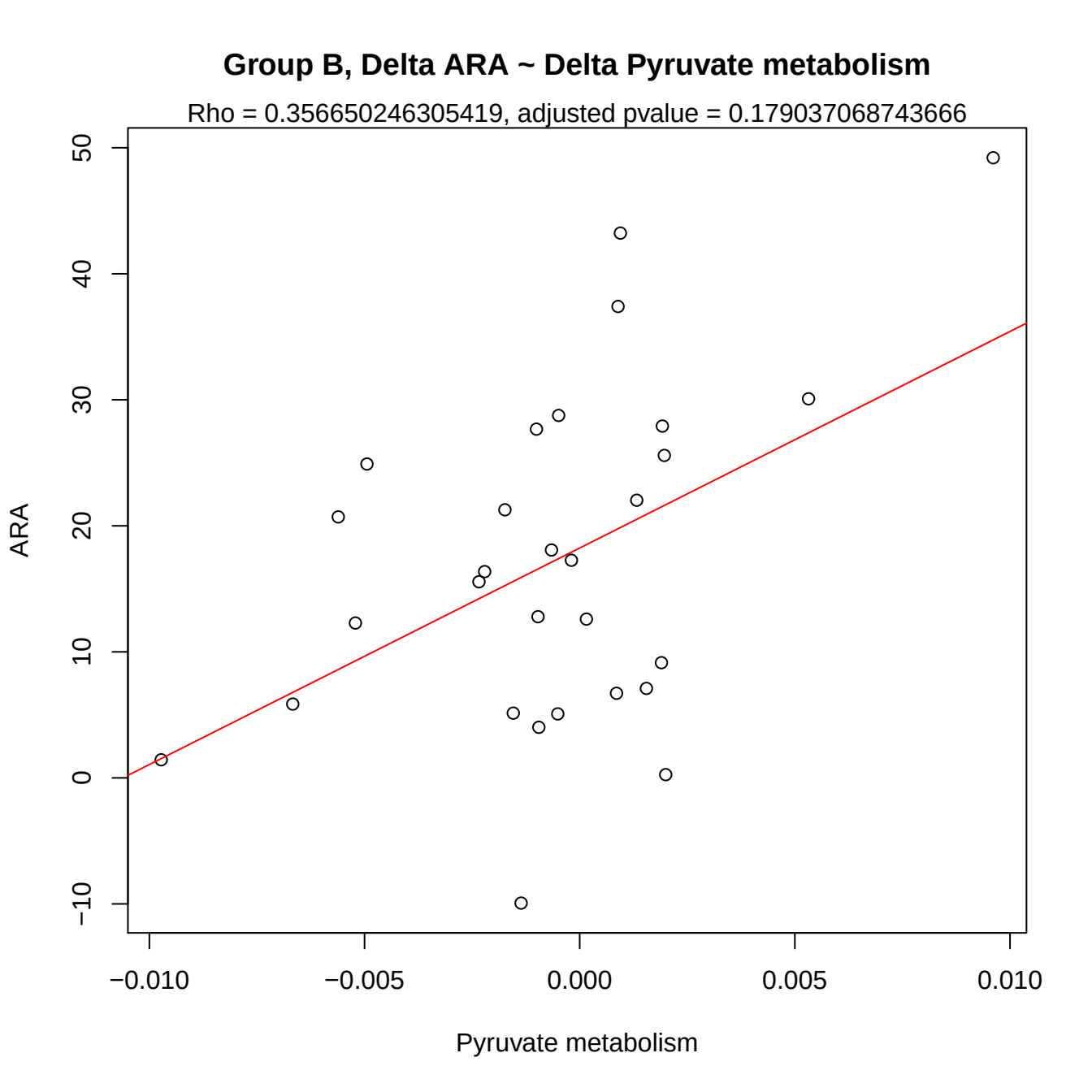

Group B, Delta ARA ~ Delta Pentose and glucuronate interconversions
Rho = 0.403940886699507, adjusted pvalue = 0.17536344370816
ARA
50
40
30
20
10
0
−10
−0.010
−0.005
0.000
0.005
0.010
0.015
0.020
Pentose and glucuronate interconversions

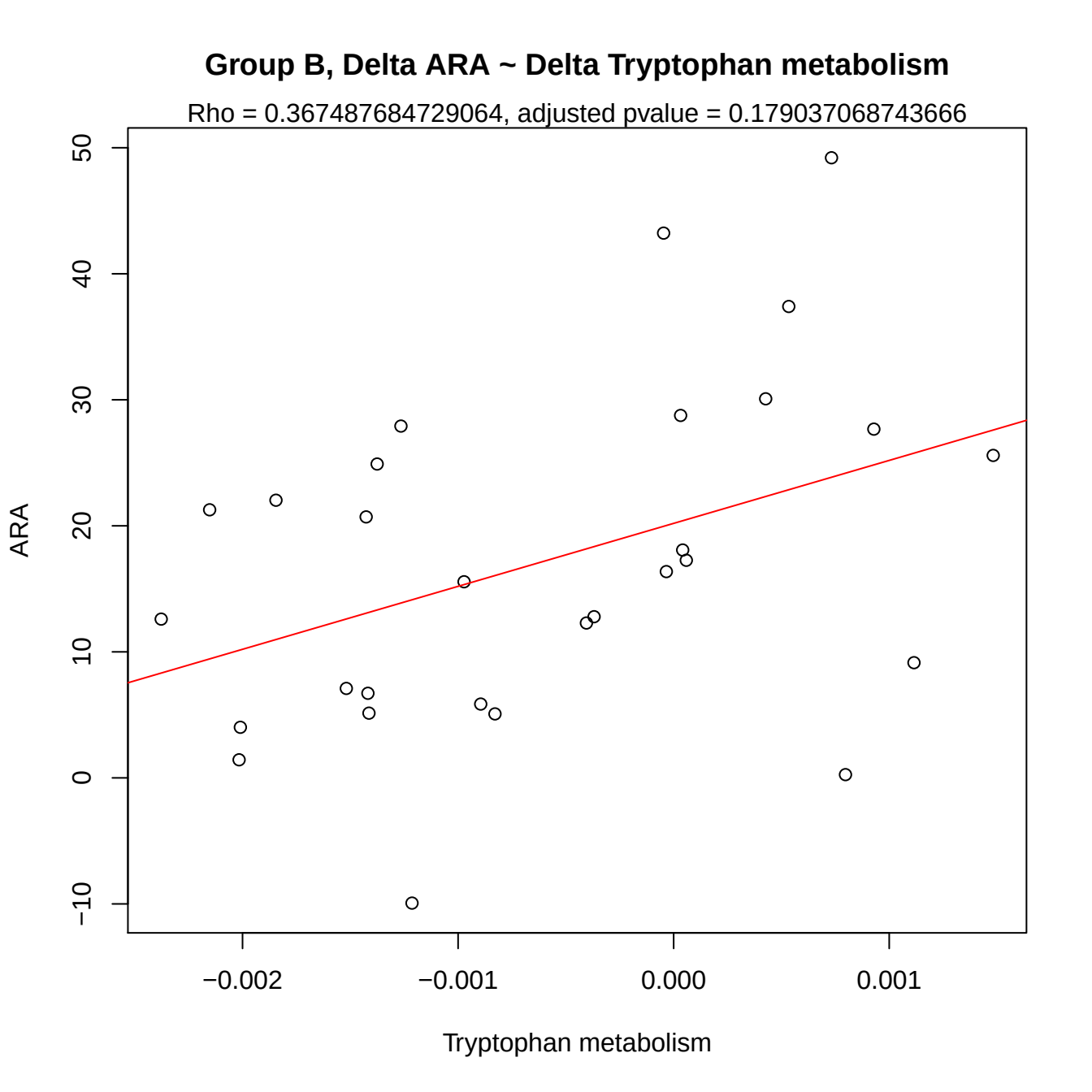

Group B, Delta ARA ~ Delta Peptidoglycan biosynthesis
Rho = −0.360591133004926, adjusted pvalue = 0.179037068743666
ARA
50
40
30
20
10
0
−10
−0.010
−0.005
0.000
0.005
Peptidoglycan biosynthesis

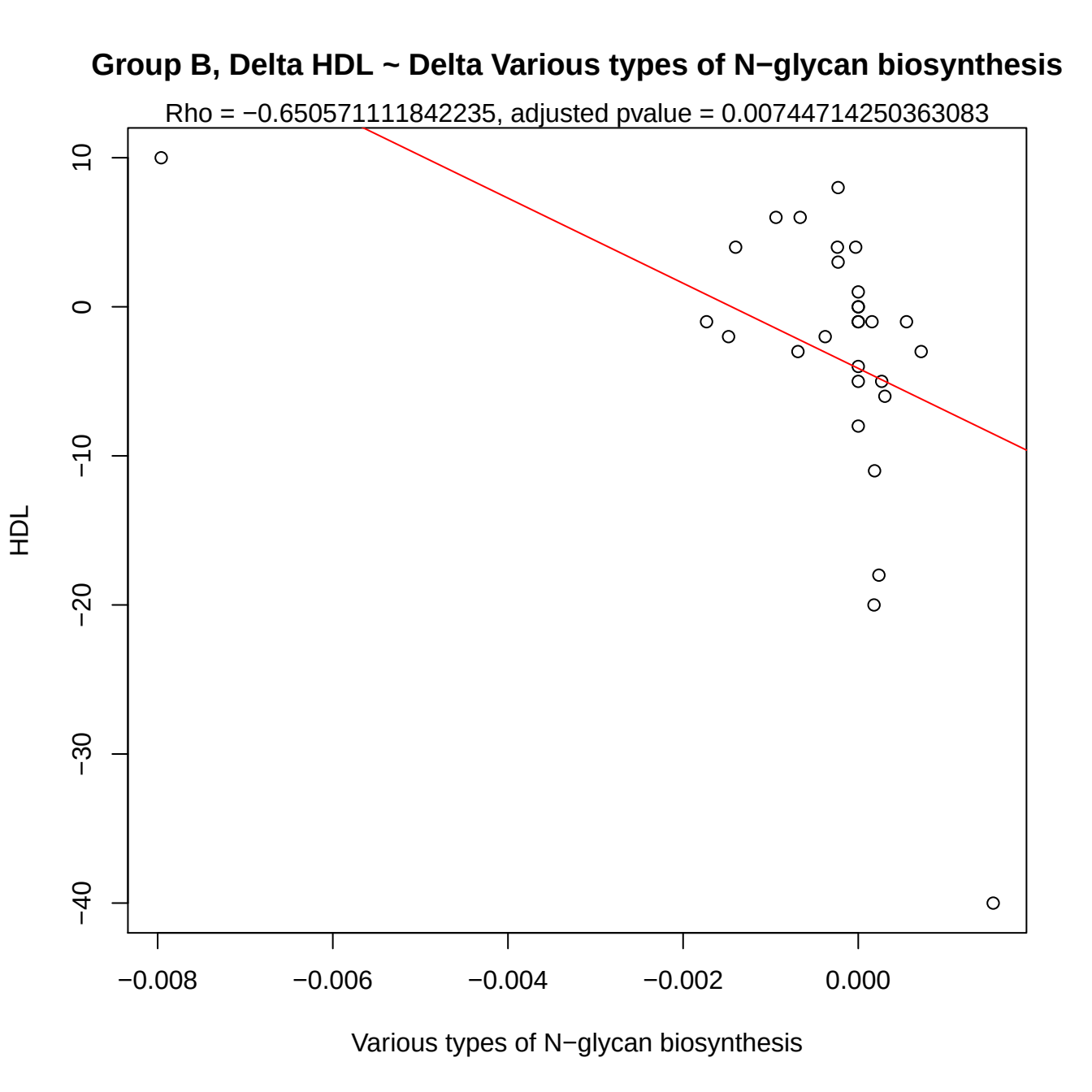

Group B, Delta ARA ~ Delta Phenylalanine metabolism
Rho = 0.333990147783251, adjusted pvalue = 0.22578831708392
ARA
50
40
30
20
10
0
−10
−0.002
0.000
0.002
0.004
Phenylalanine metabolism


Group B, Delta ARA ~ Delta Phosphonate and phosphinate metabolism
Rho = 0.382758620689655, adjusted pvalue = 0.17536344370816
ARA
50
40
30
20
10
0
−10
−0.005
0.000
0.005
Phosphonate and phosphinate metabolism


Group B, Delta ARA ~ Delta Pyrimidine metabolism
Rho = −0.376354679802956, adjusted pvalue = 0.176772451449521
ARA
50
40
30
20
10
0
−10
−0.010
−0.005
0.000
0.005
Pyrimidine metabolism


Group B, Delta ARA ~ Delta Pyruvate metabolism
Rho = 0.356650246305419, adjusted pvalue = 0.179037068743666
ARA
50
40
30
20
10
0
−10
−0.010
−0.005
0.000
0.005
0.010
Pyruvate metabolism


Group B, Delta ARA ~ Delta Tryptophan metabolism
Rho = 0.367487684729064, adjusted pvalue = 0.179037068743666
ARA
50
40
30
20
10
0
−10
−0.002
−0.001
0.000
0.001
Tryptophan metabolism


Group B, Delta HDL ~ Delta Various types of N−glycan biosynthesis
Rho = −0.650571111842235, adjusted pvalue = 0.00744714250363083
HDL
10
0
−10
−20
−30
−40
−0.008
−0.006
−0.004
−0.002
0.000
Various types of N−glycan biosynthesis