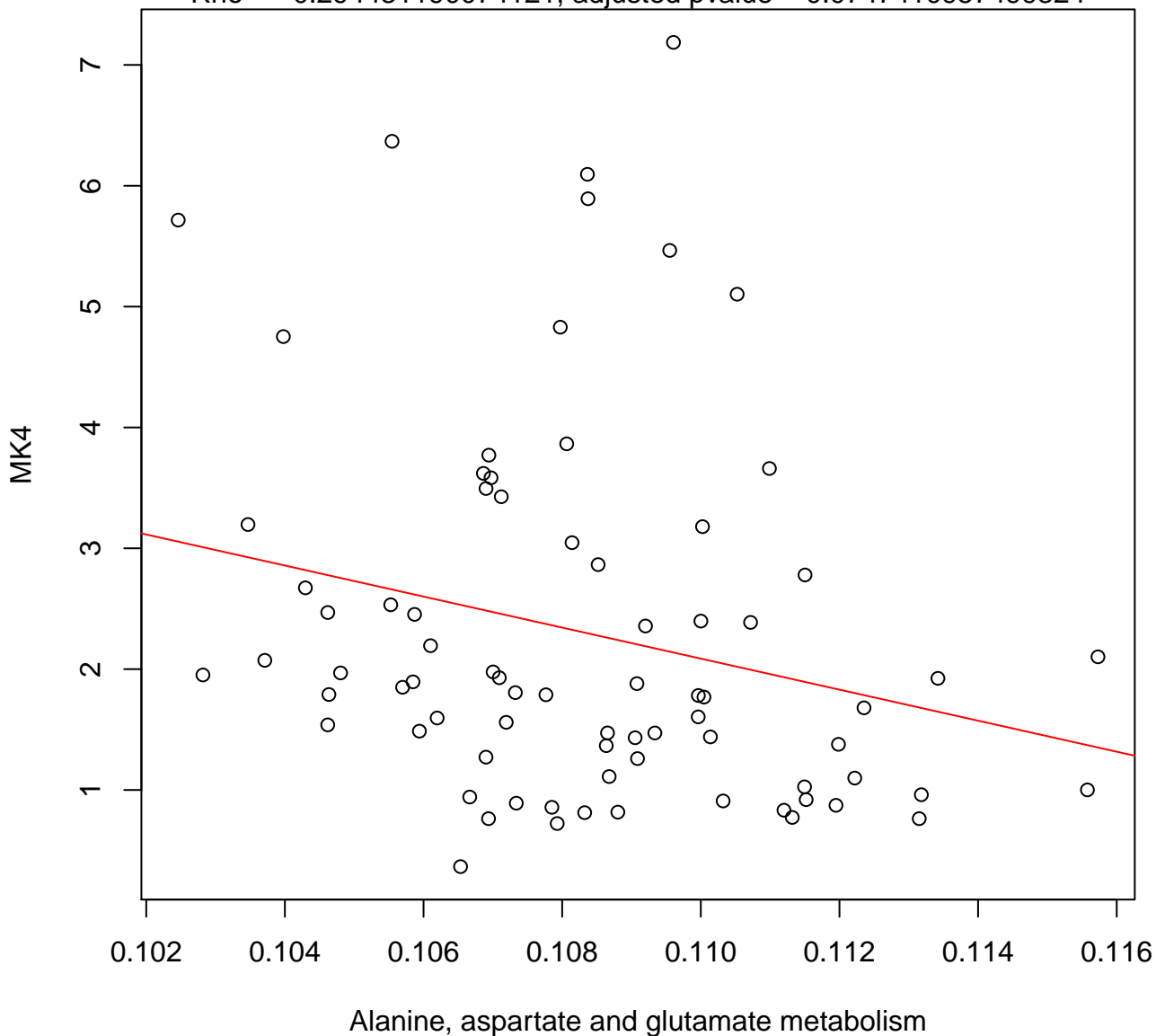


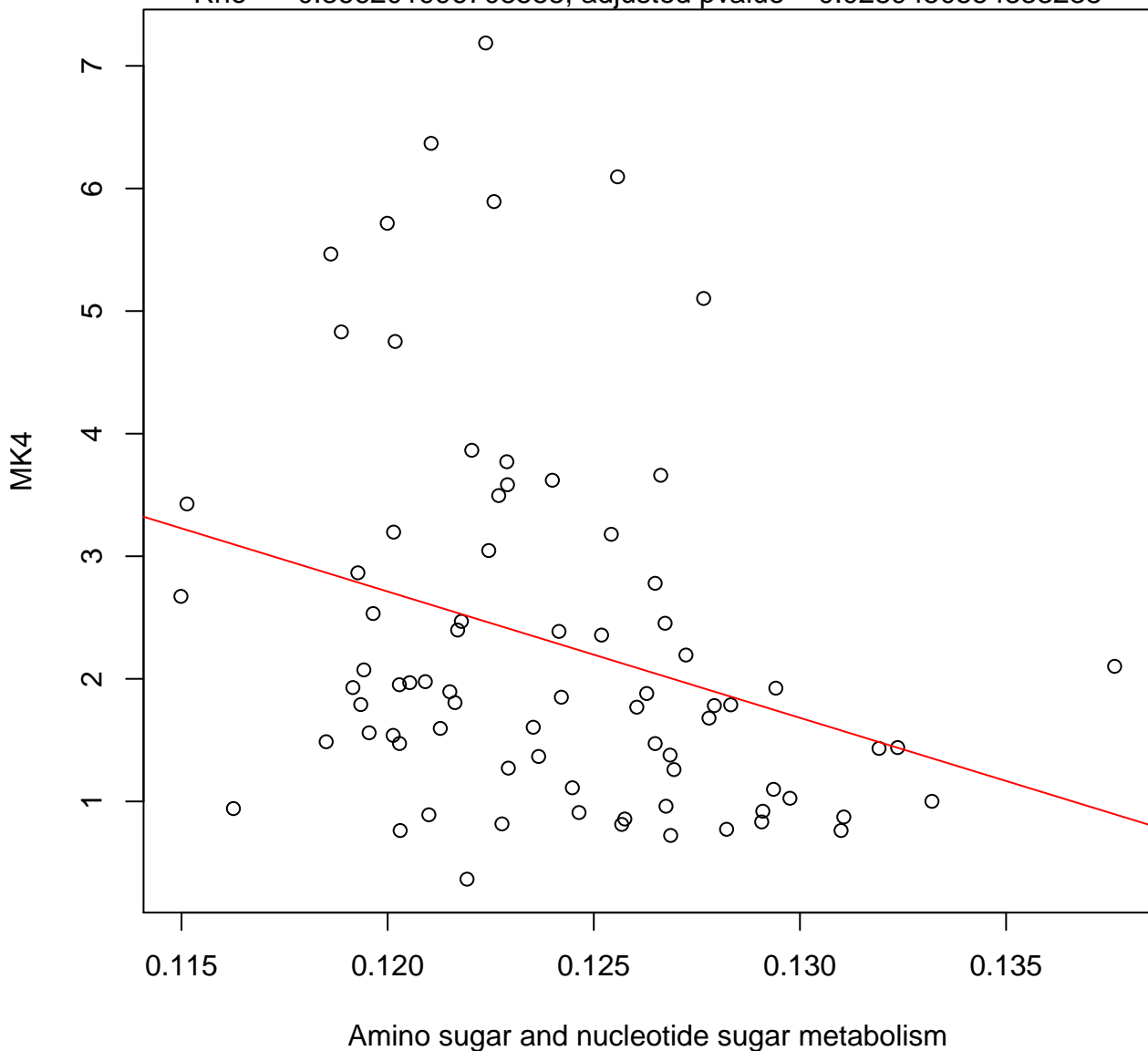
Timepoint 2 , MK4 ~ Alanine, aspartate and glutamate metabolism

Rho = -0.294431190074121 , adjusted pvalue = 0.0747410957499324



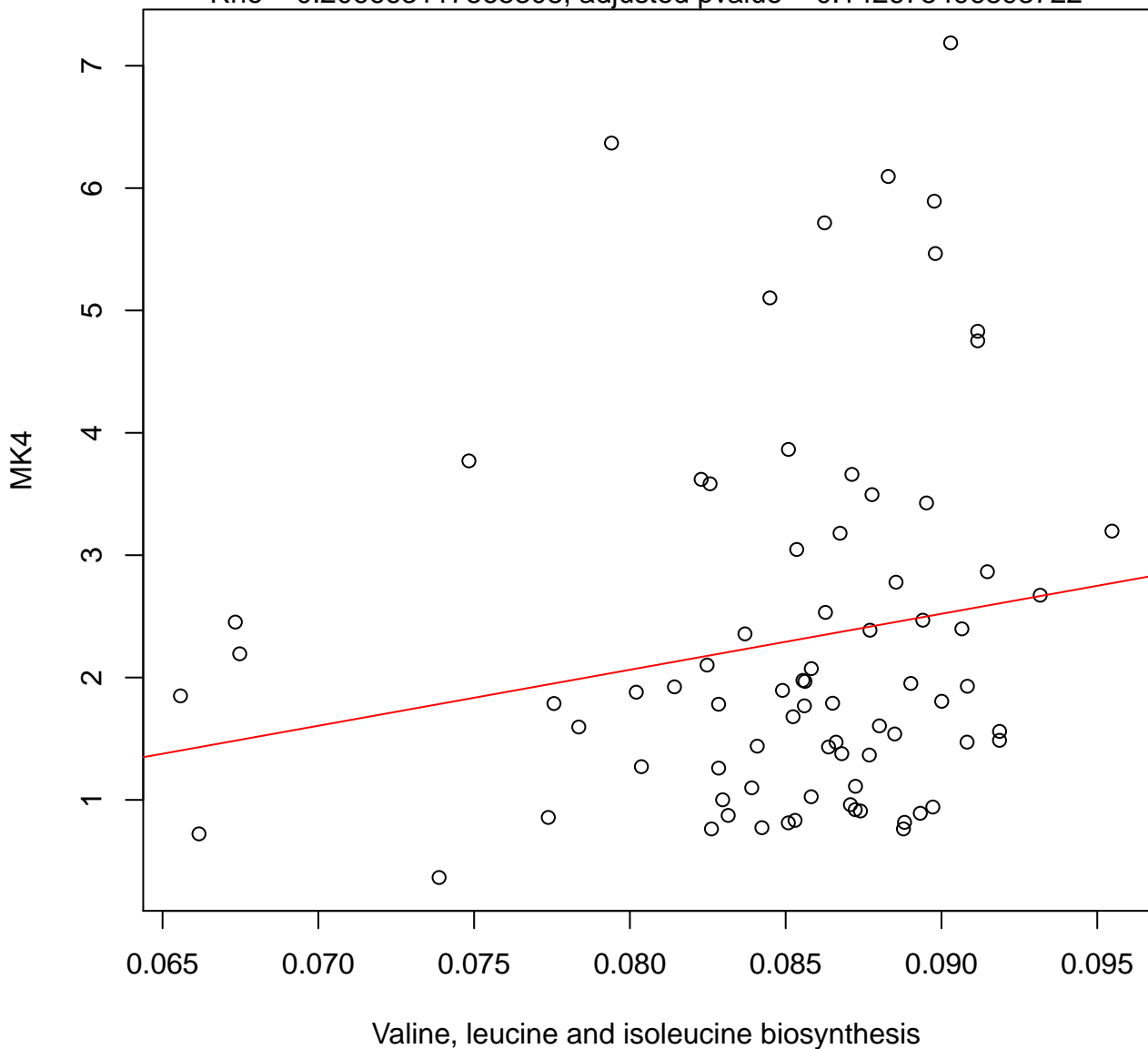
Timepoint 2 , MK4 ~ Amino sugar and nucleotide sugar metabolism

Rho = -0.366201996708555 , adjusted pvalue = 0.0289450554833238



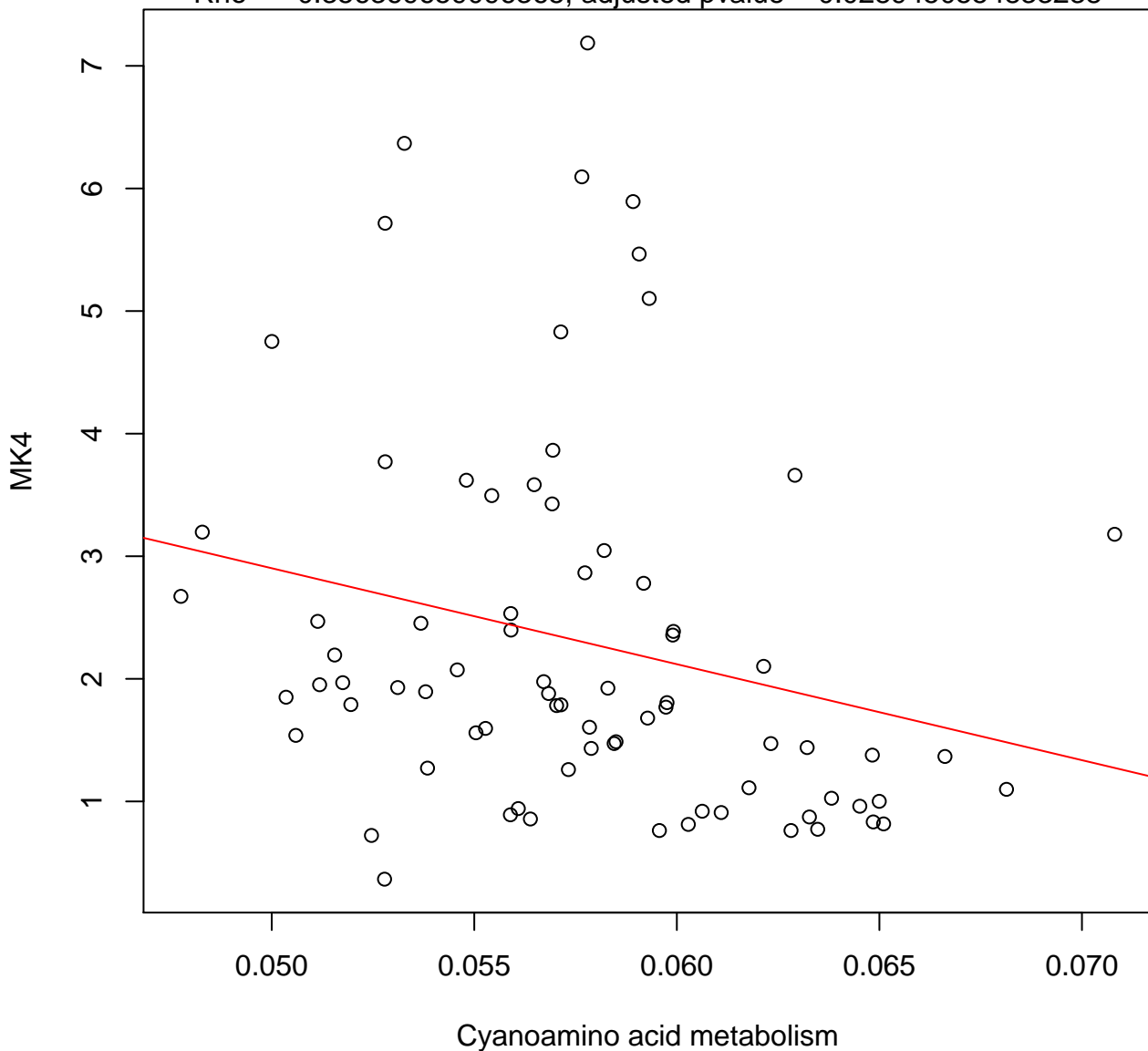
Timepoint 2 , MK4 ~ Valine, leucine and isoleucine biosynthesis

Rho = 0.206663117565308, adjusted pvalue = 0.142675496893722



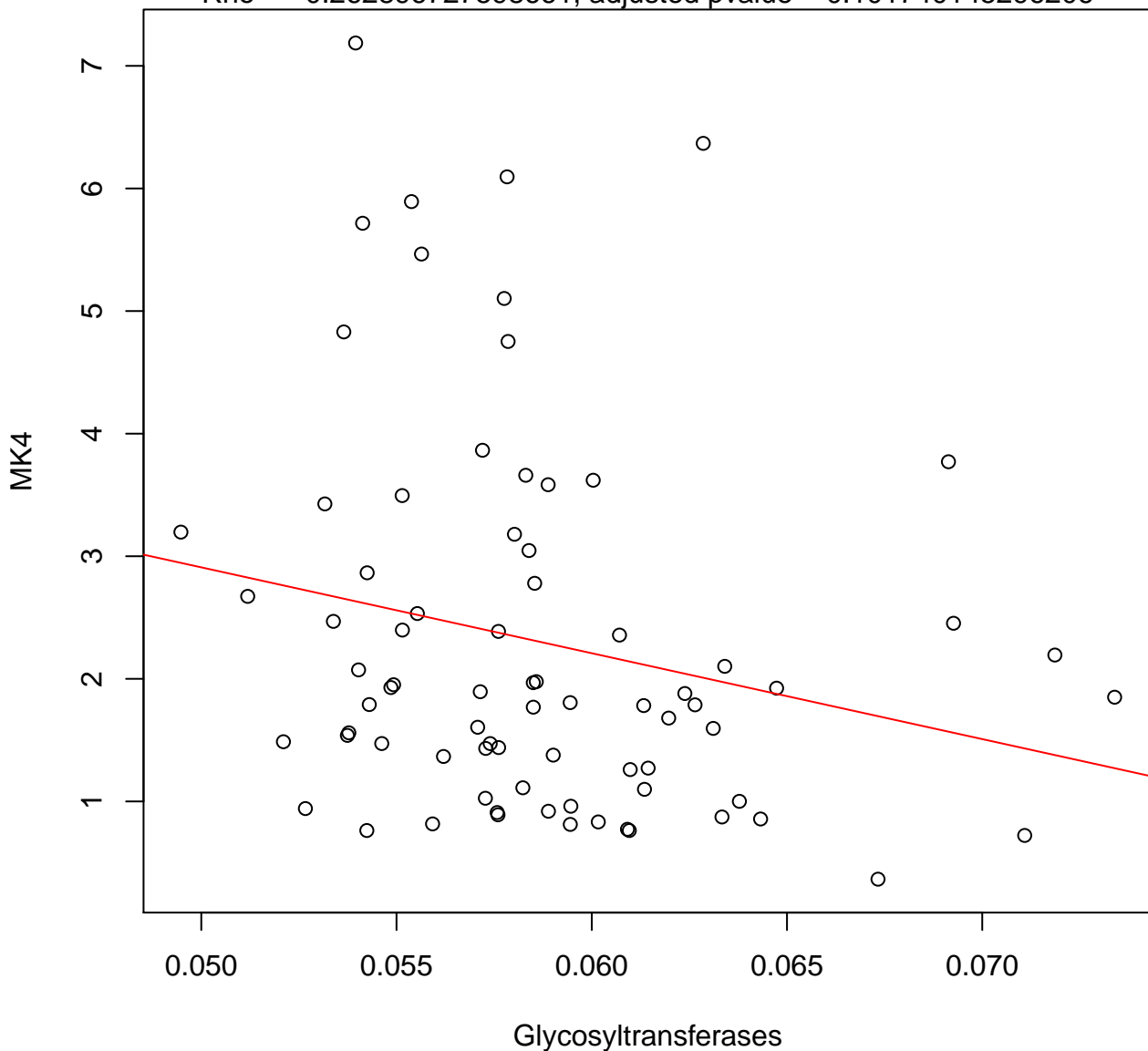
Timepoint 2 , MK4 ~ Cyanoamino acid metabolism

Rho = -0.356369659096365 , adjusted pvalue = 0.0289450554833238



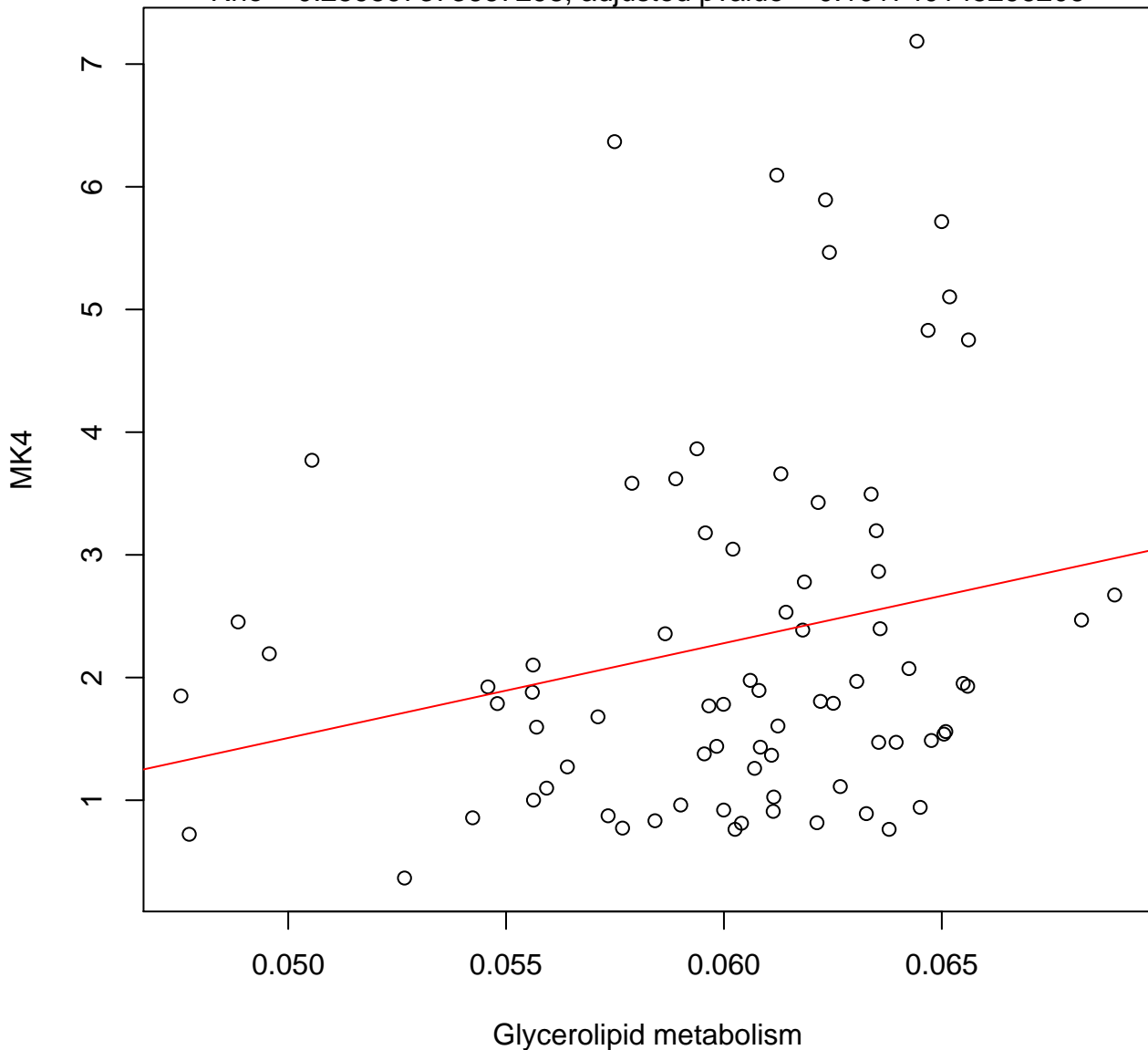
Timepoint 2 , MK4 ~ Glycosyltransferases

Rho = -0.262896727598661 , adjusted pvalue = 0.101740145296206



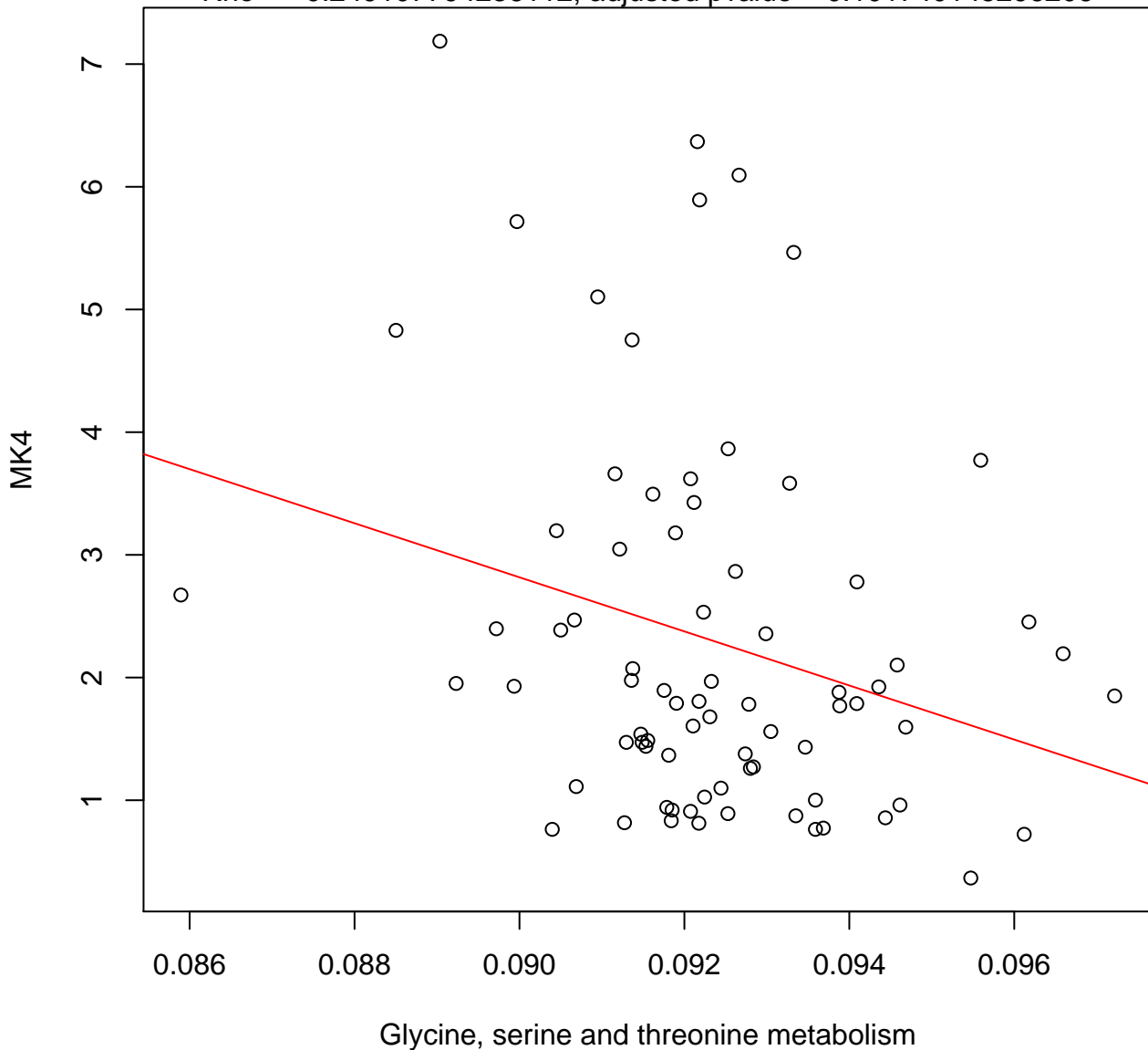
Timepoint 2 , MK4 ~ Glycerolipid metabolism

Rho = 0.259597373667298, adjusted pvalue = 0.101740145296206



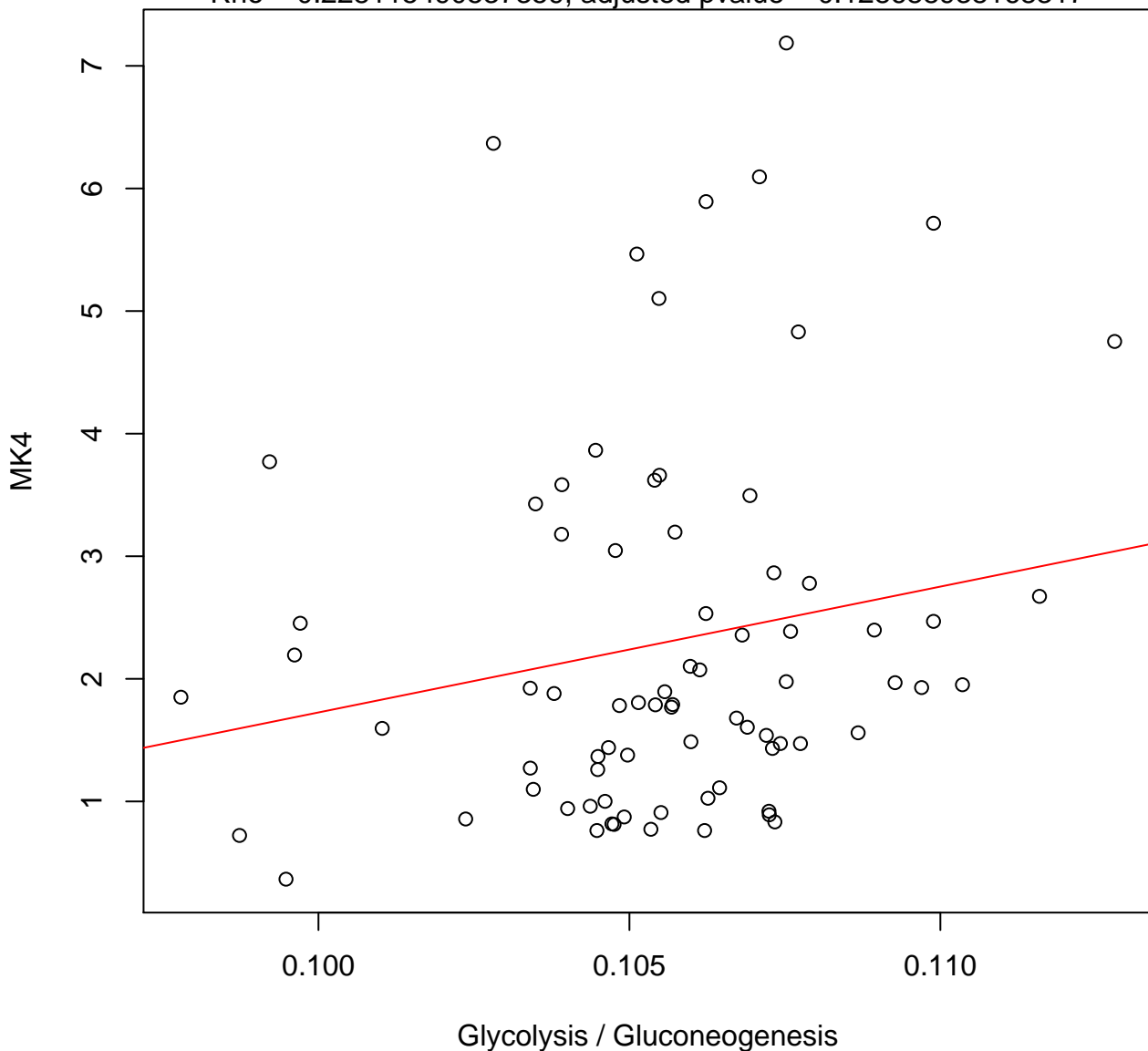
Timepoint 2 , MK4 ~ Glycine, serine and threonine metabolism

Rho = -0.249107794236112, adjusted pvalue = 0.101740145296206



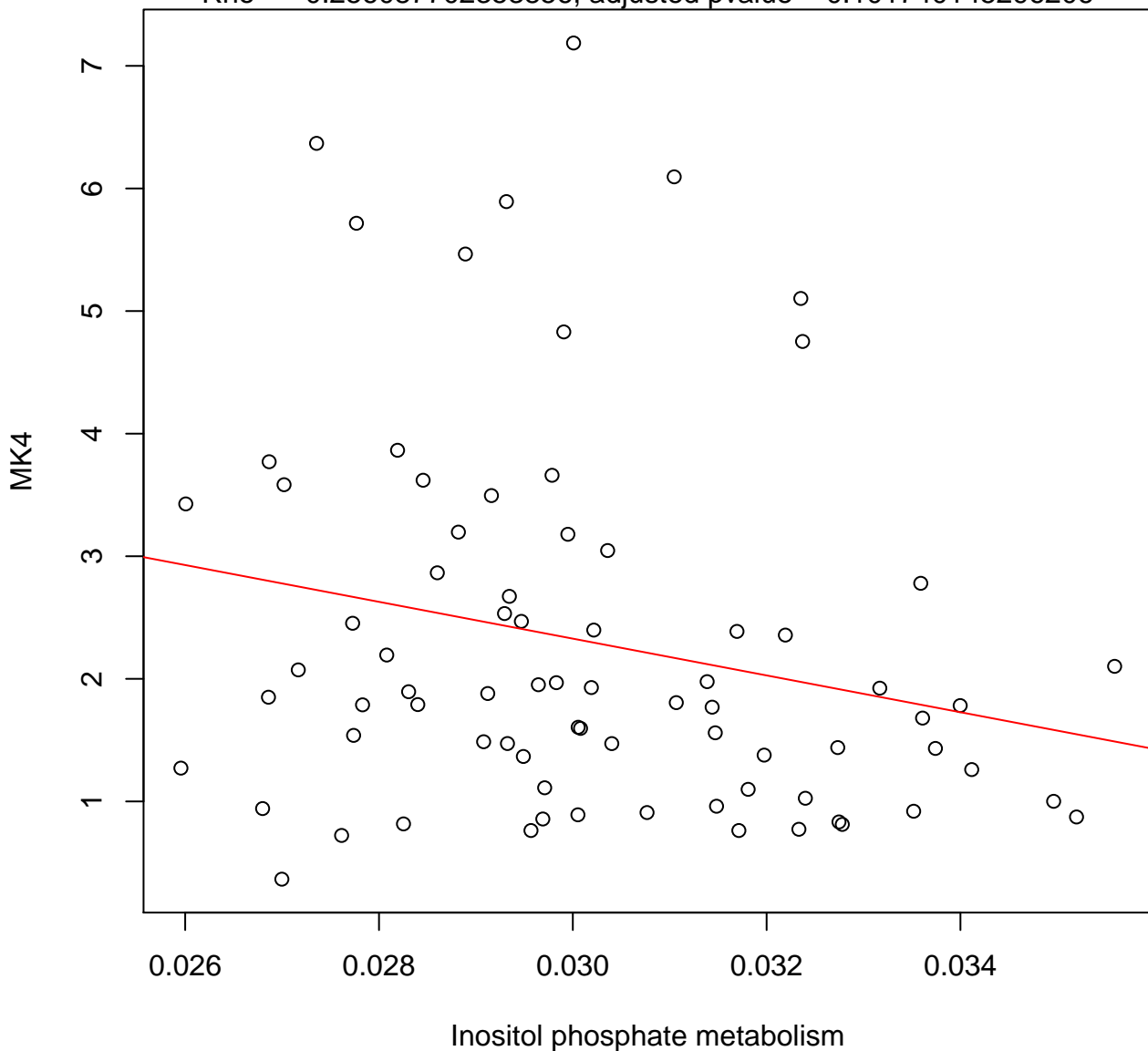
Timepoint 2 , MK4 ~ Glycolysis / Gluconeogenesis

Rho = 0.228115490537359, adjusted pvalue = 0.128688938168317



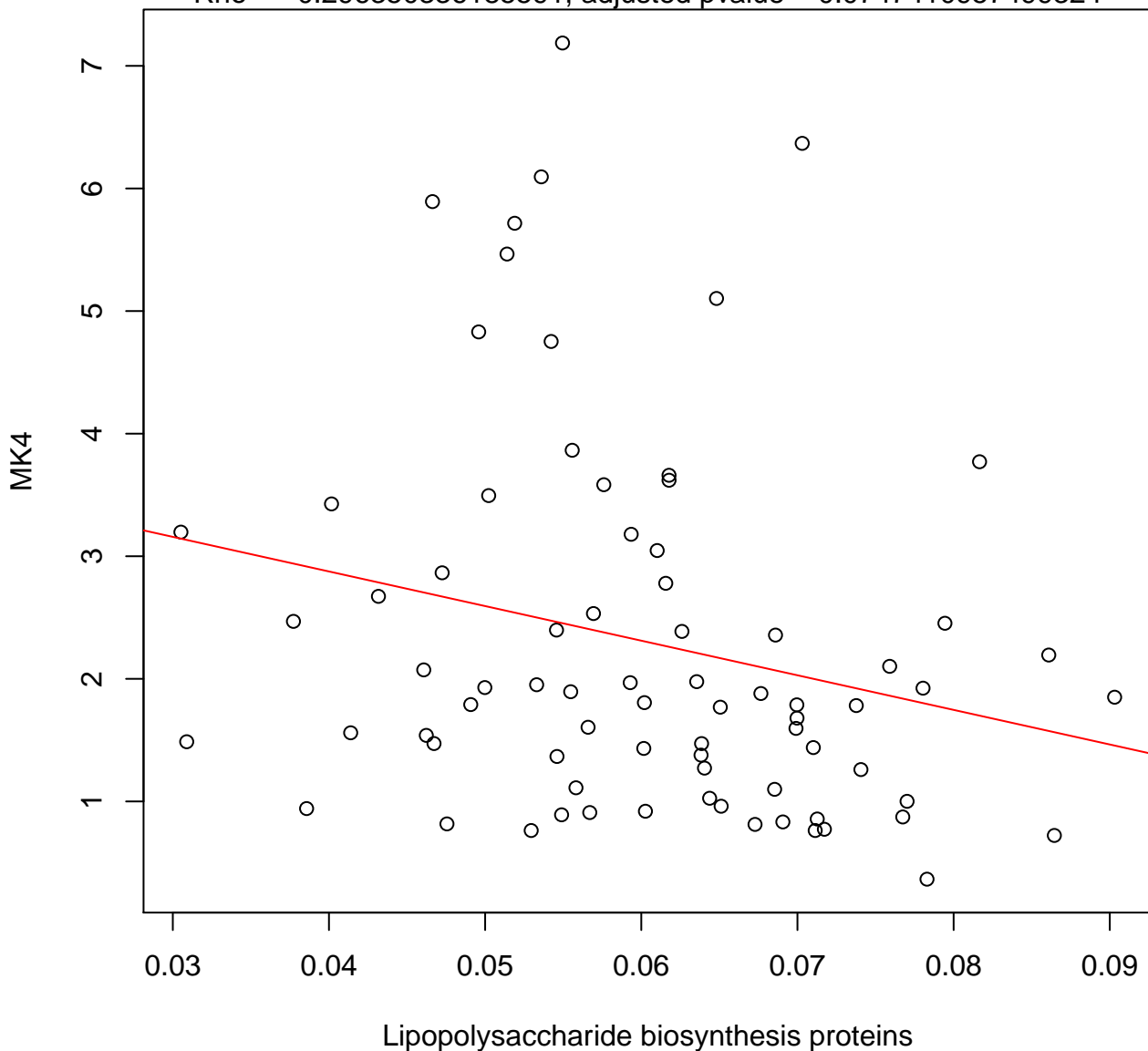
Timepoint 2 , MK4 ~ Inositol phosphate metabolism

Rho = -0.256087702353856 , adjusted pvalue = 0.101740145296206



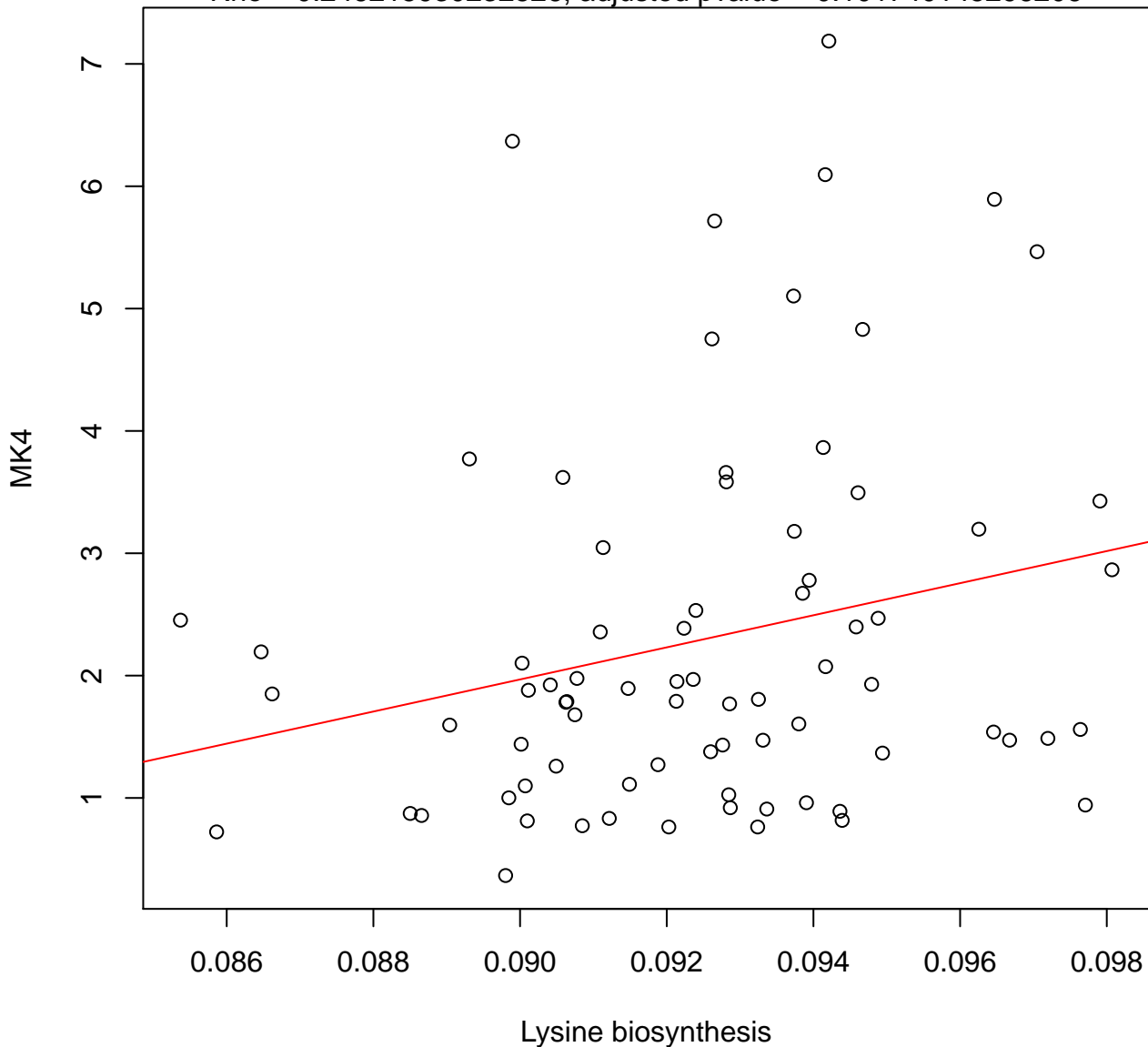
Timepoint 2 , MK4 ~ Lipopolysaccharide biosynthesis proteins

Rho = -0.296350336185591 , adjusted pvalue = 0.0747410957499324



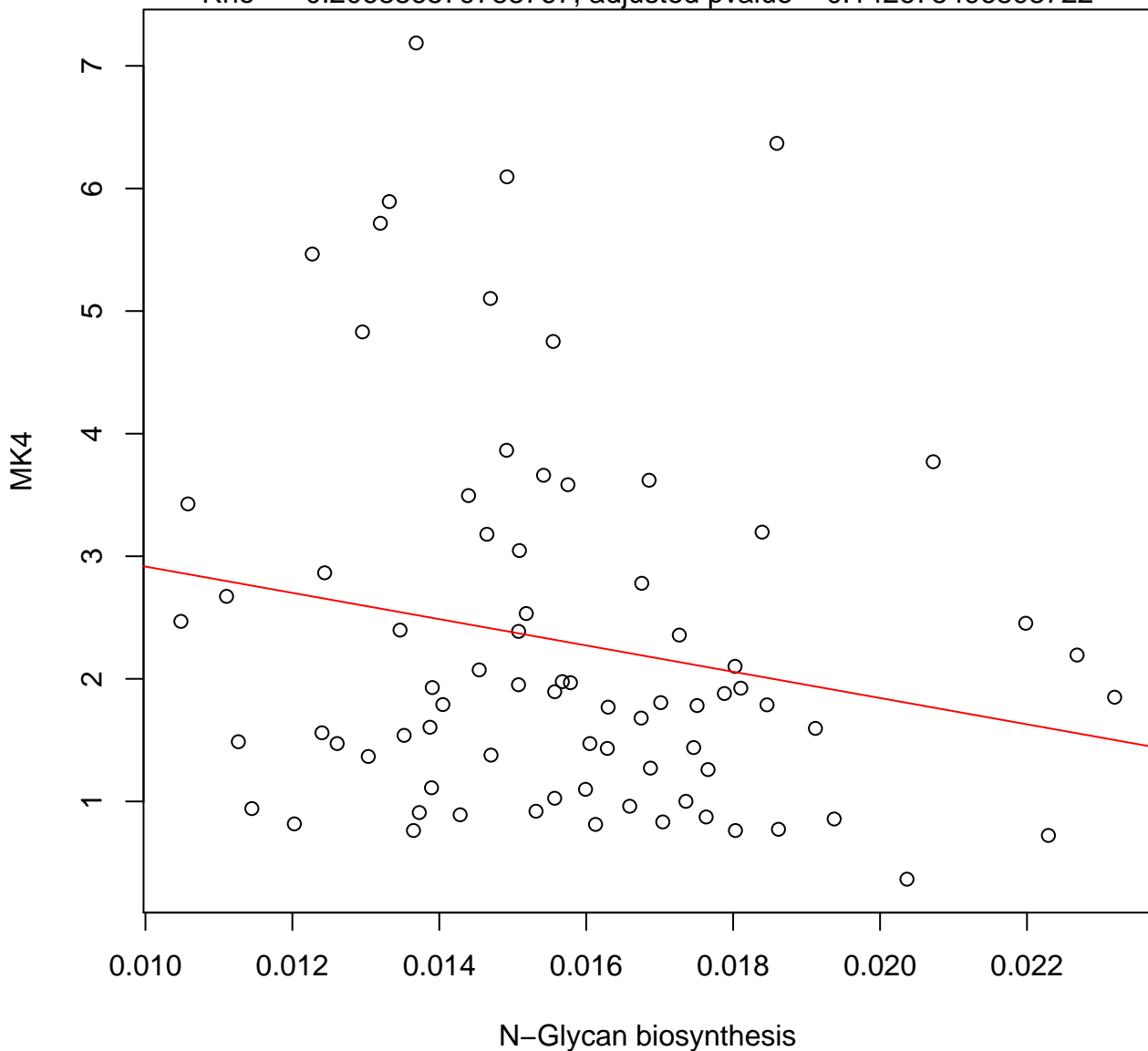
Timepoint 2 , MK4 ~ Lysine biosynthesis

Rho = 0.246215930232526, adjusted pvalue = 0.101740145296206



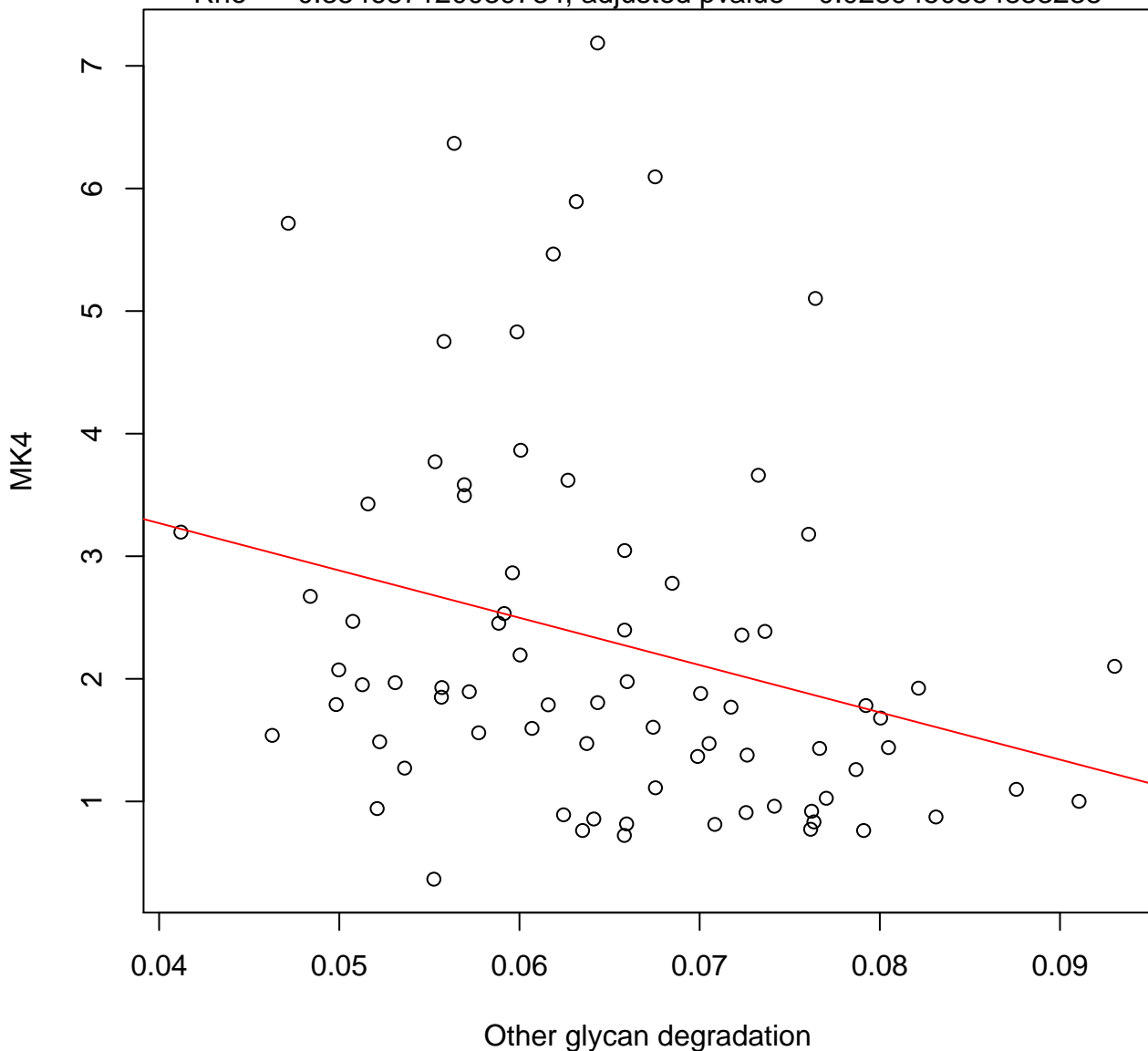
Timepoint 2 , MK4 ~ N-Glycan biosynthesis

Rho = -0.206886579783767 , adjusted pvalue = 0.142675496893722



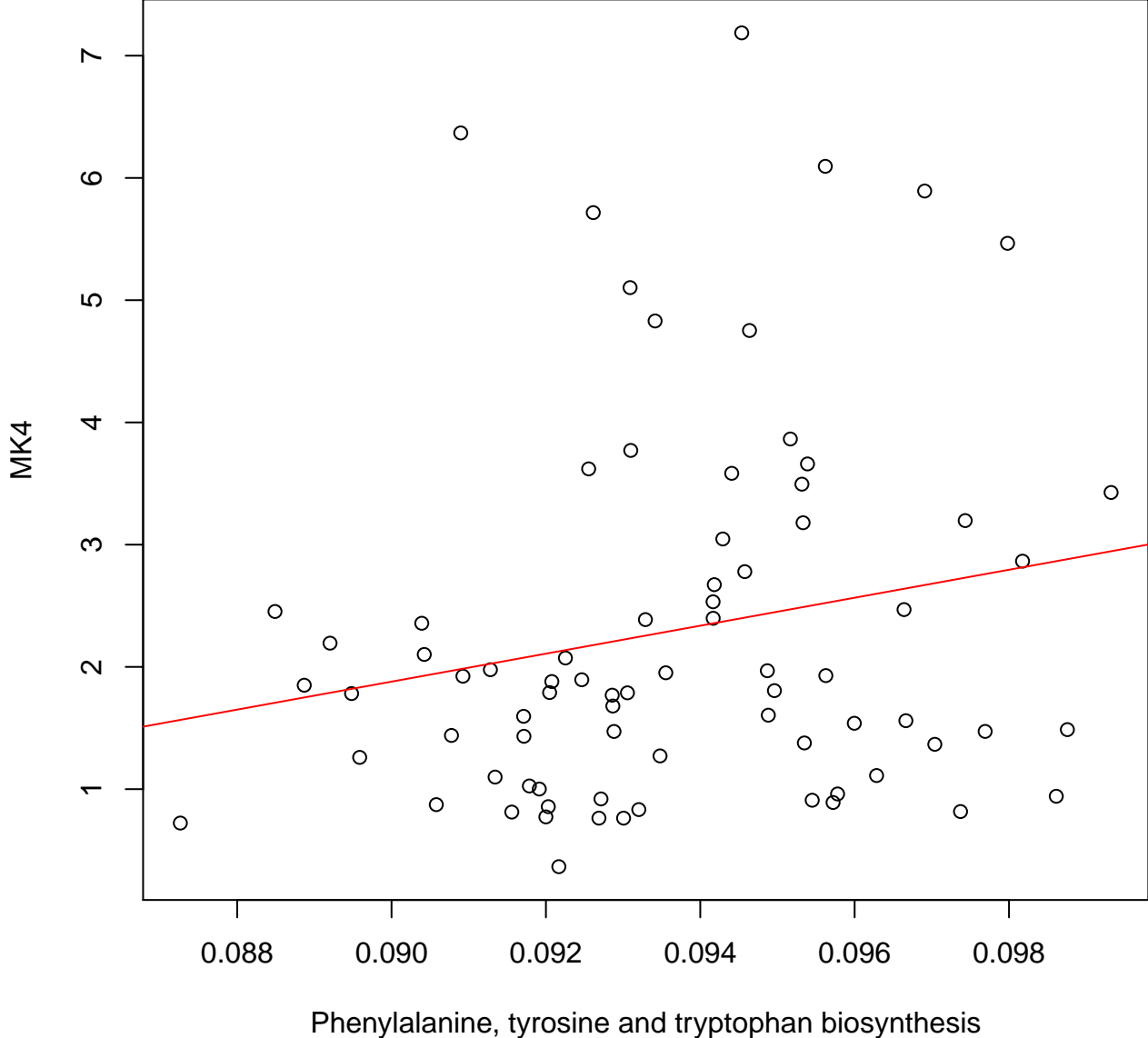
Timepoint 2 , MK4 ~ Other glycan degradation

Rho = -0.354687120039734 , adjusted pvalue = 0.0289450554833238



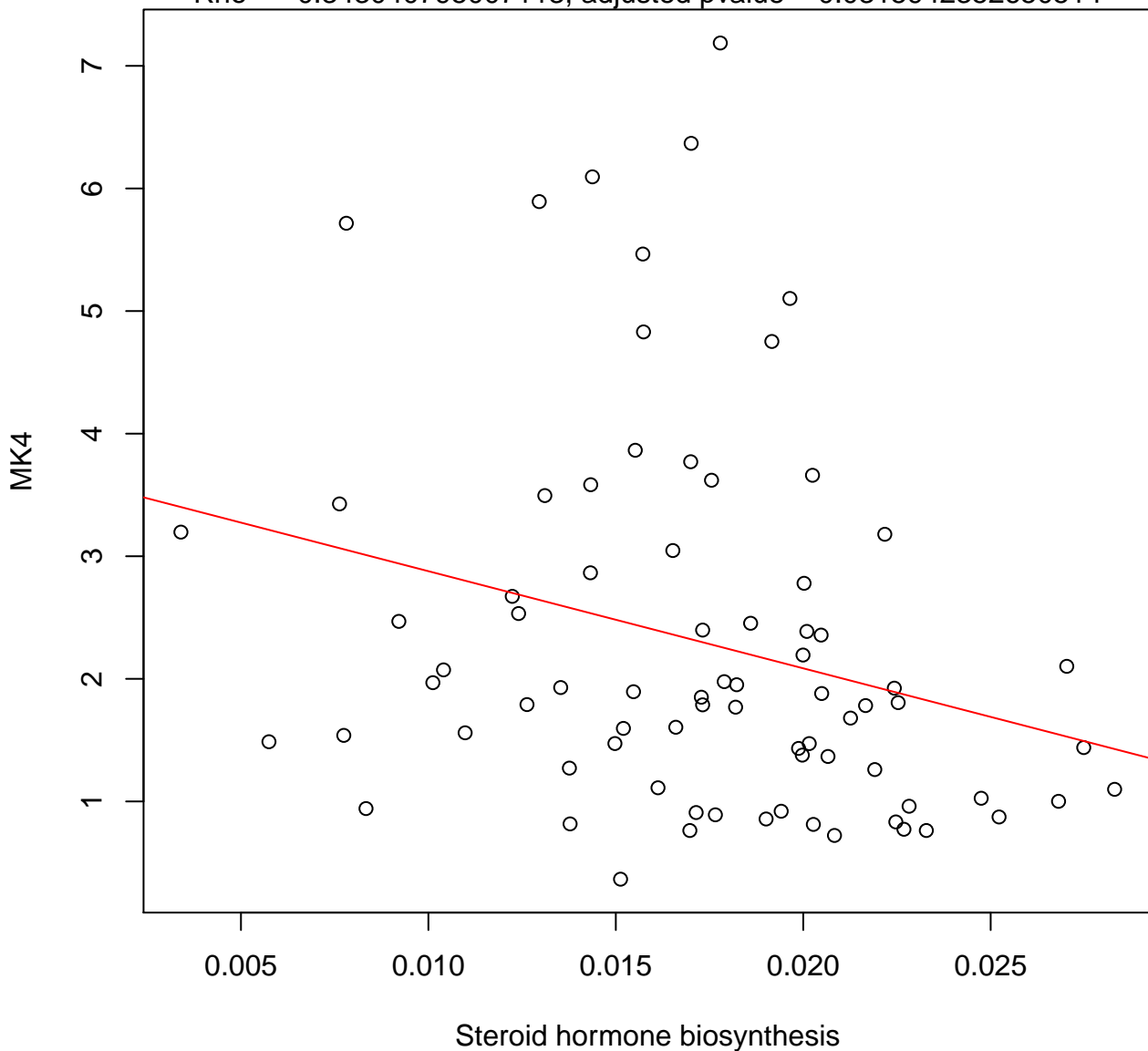
Timepoint 2 , MK4 ~ Phenylalanine, tyrosine and tryptophan biosynthesis

Rho = 0.200077554538961, adjusted pvalue = 0.156504091050844



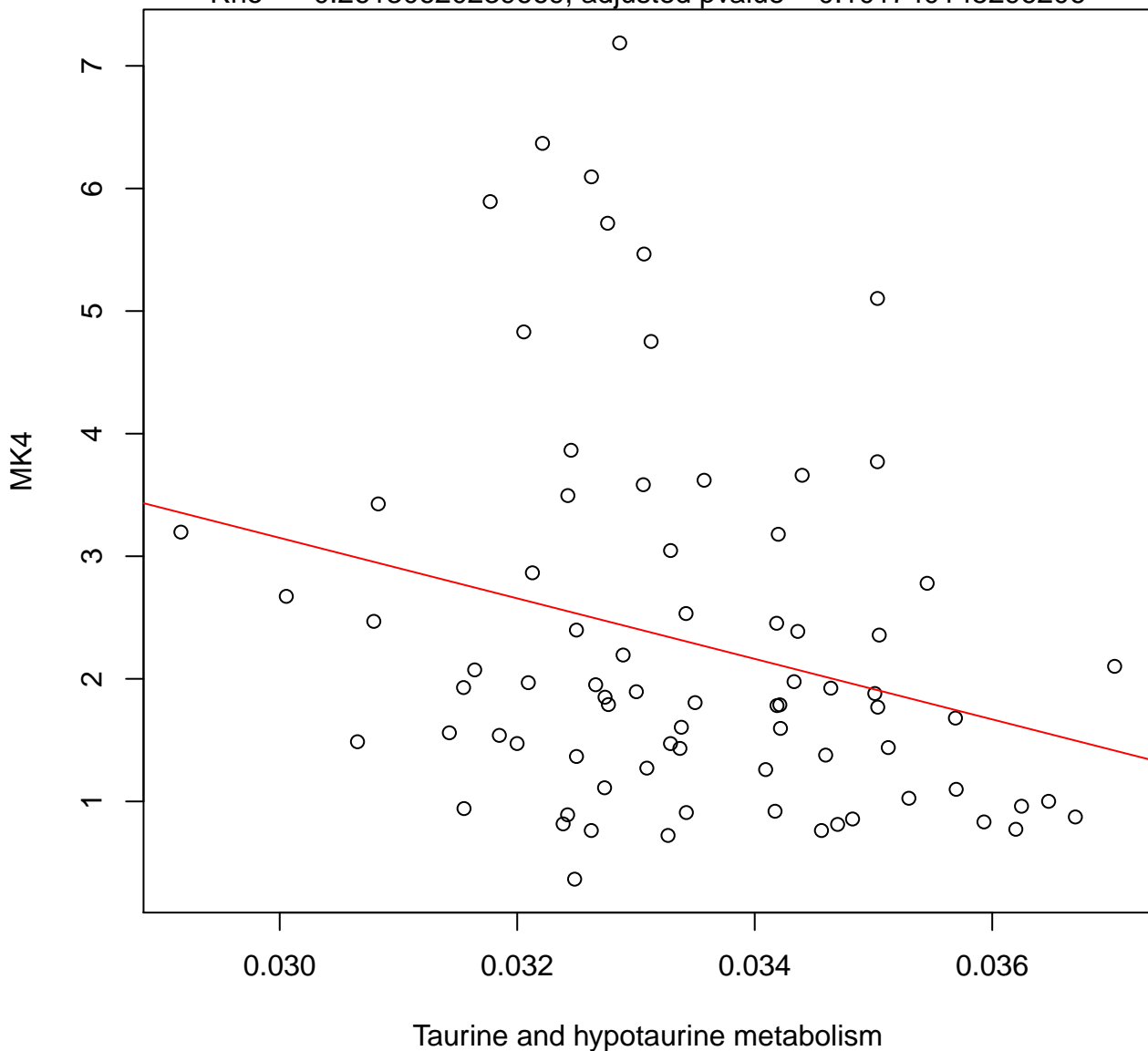
Timepoint 2 , MK4 ~ Steroid hormone biosynthesis

Rho = -0.343040795007113 , adjusted pvalue = 0.0315942352650514



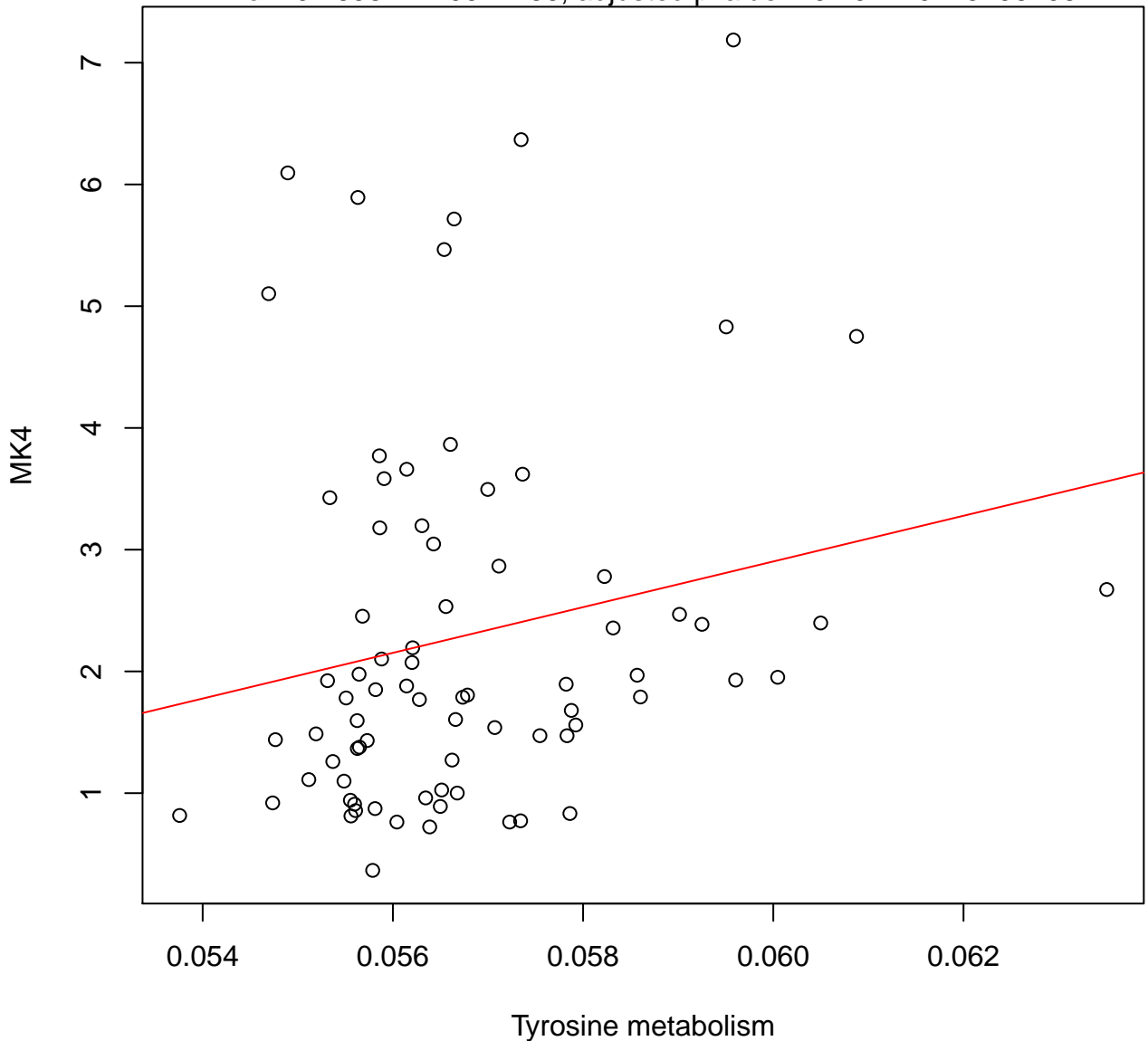
Timepoint 2 , MK4 ~ Taurine and hypotaurine metabolism

Rho = -0.26130620239669 , adjusted pvalue = 0.101740145296206



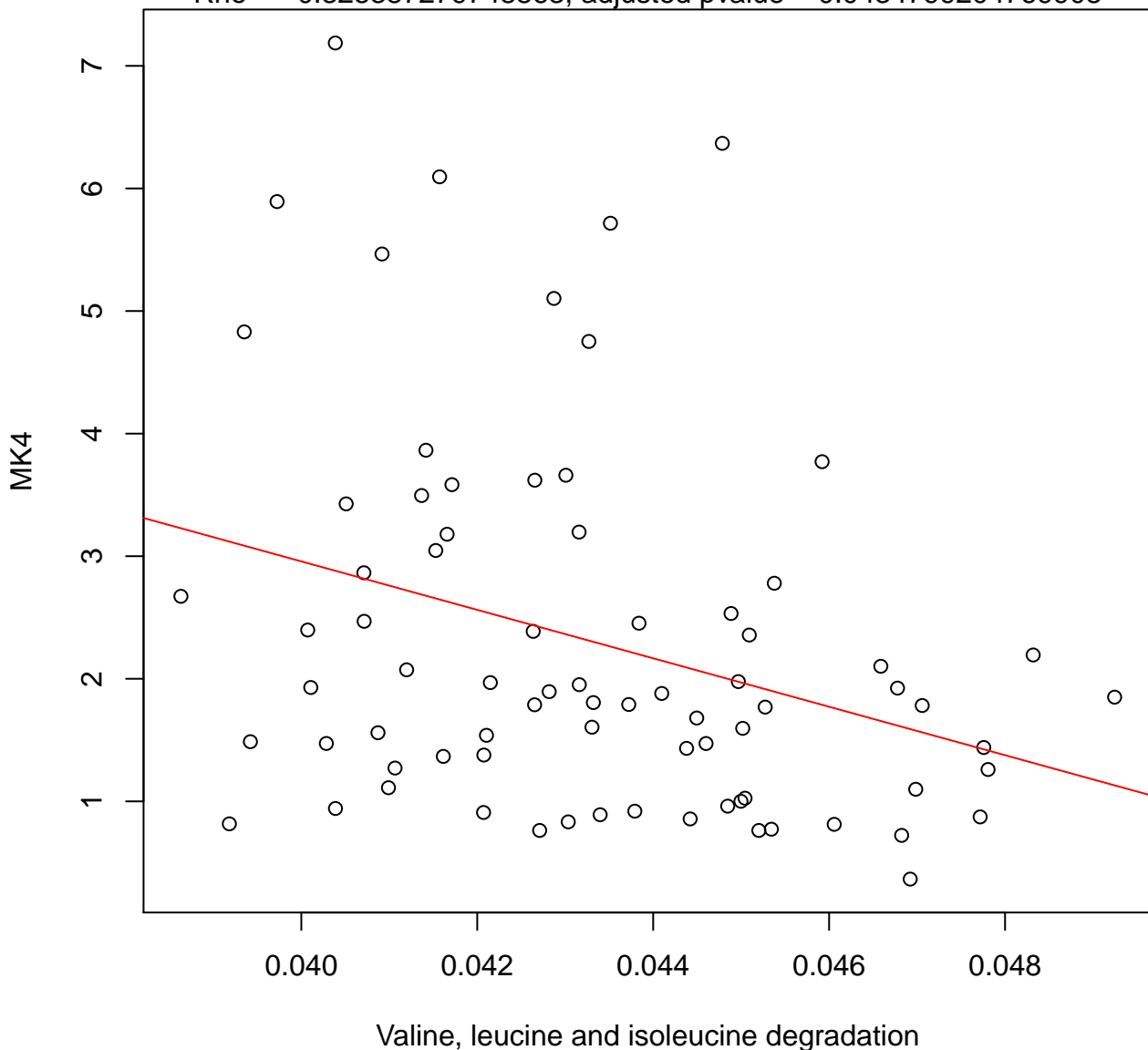
Timepoint 2 , MK4 ~ Tyrosine metabolism

Rho = 0.265841170947766, adjusted pvalue = 0.101740145296206



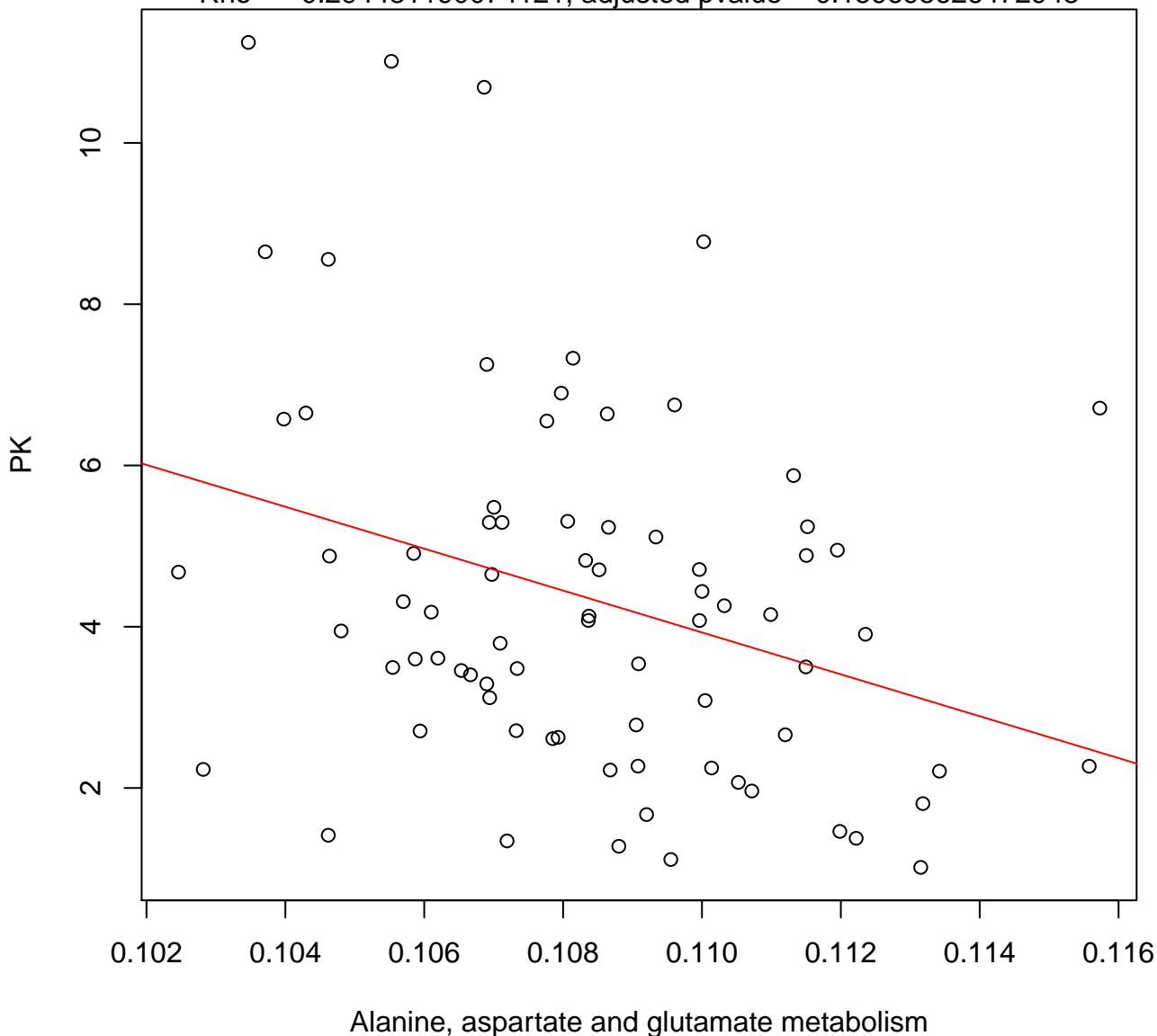
Timepoint 2 , MK4 ~ Valine, leucine and isoleucine degradation

Rho = -0.325387279748863 , adjusted pvalue = 0.0434799204769908



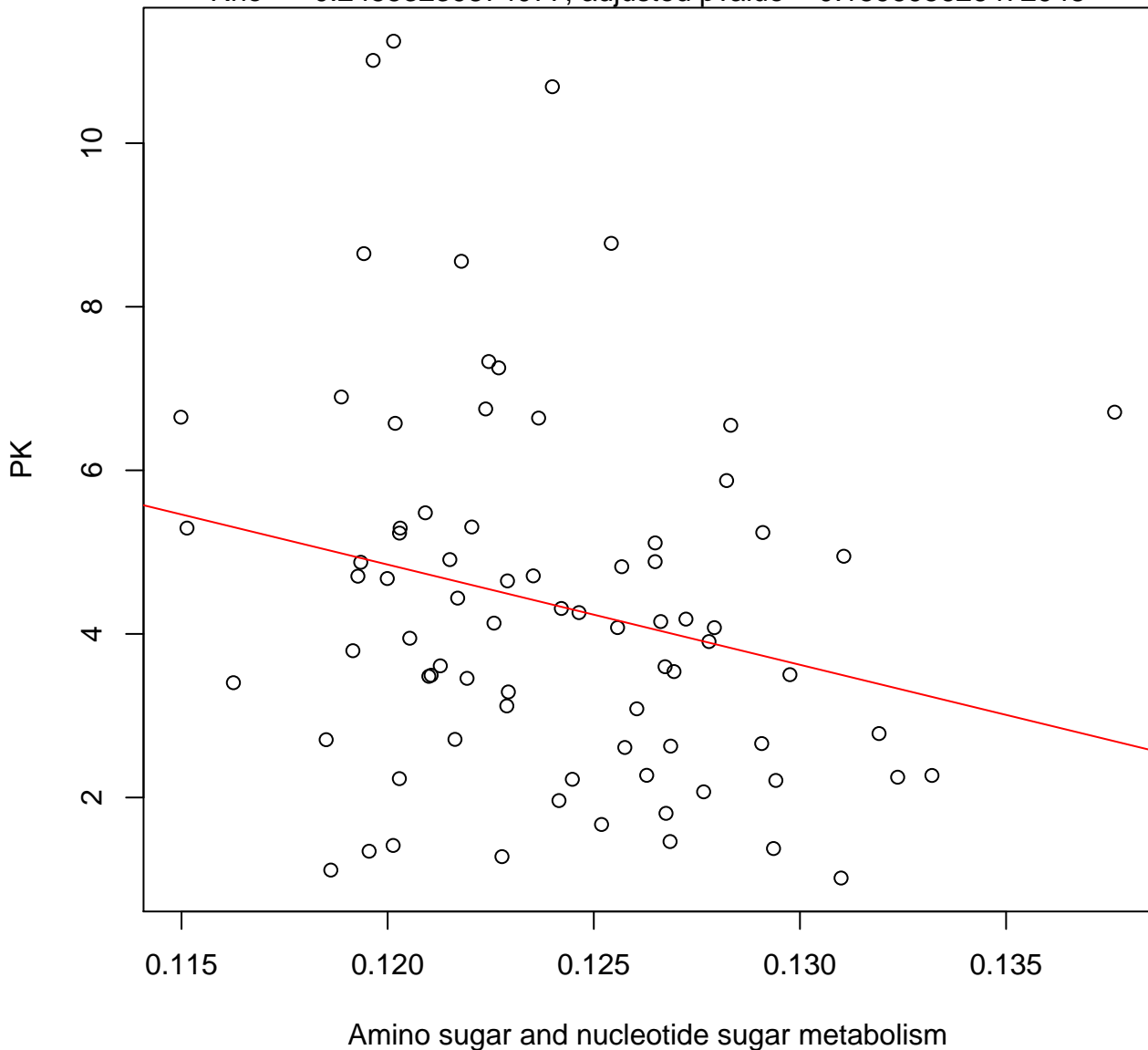
Timepoint 2 , PK ~ Alanine, aspartate and glutamate metabolism

Rho = -0.294431190074121, adjusted pvalue = 0.159695626472948



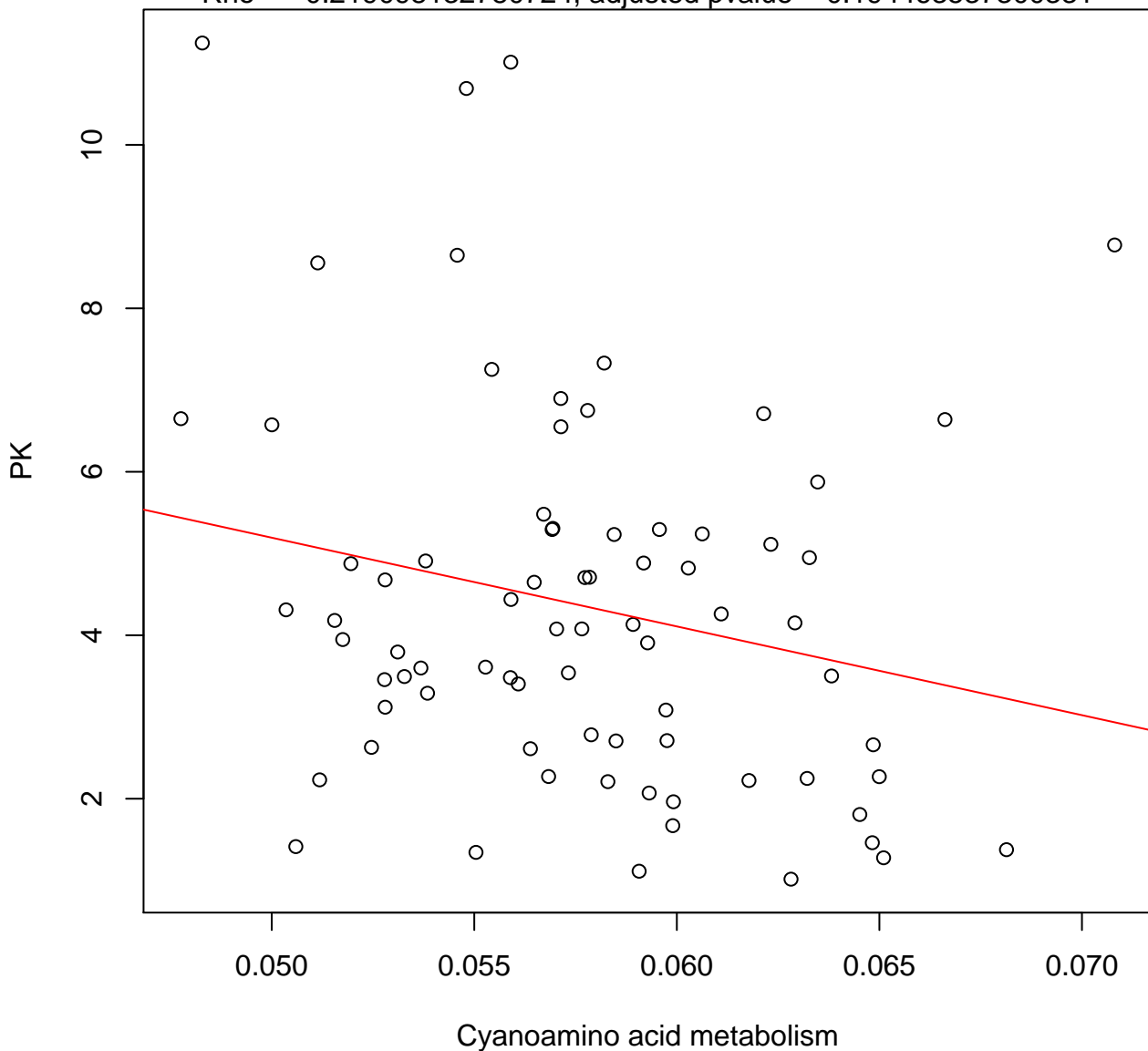
Timepoint 2 , PK ~ Amino sugar and nucleotide sugar metabolism

Rho = -0.24553239874077, adjusted pvalue = 0.159695626472948



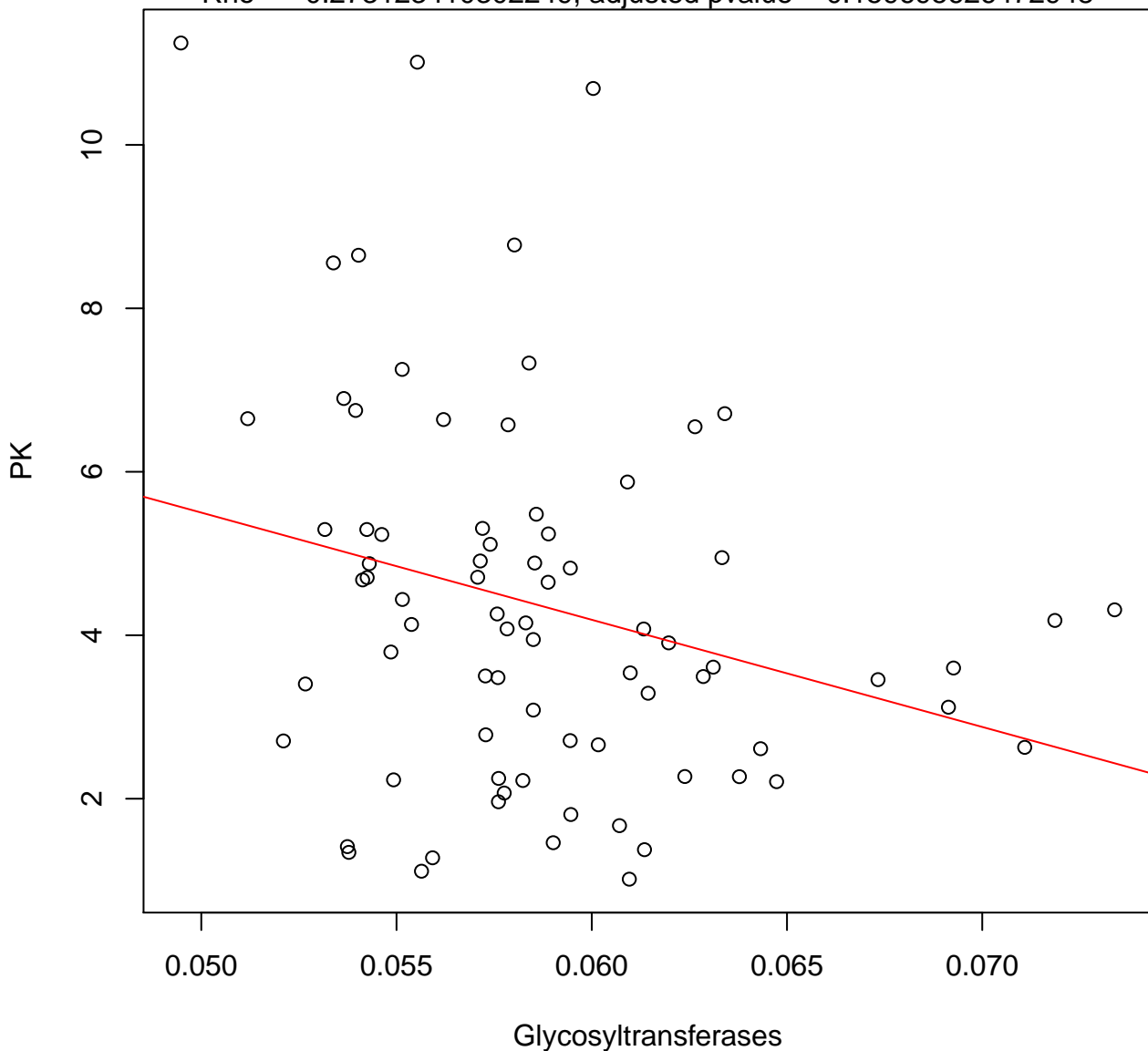
Timepoint 2 , PK ~ Cyanoamino acid metabolism

Rho = -0.219098132780724 , adjusted pvalue = 0.194463537300331



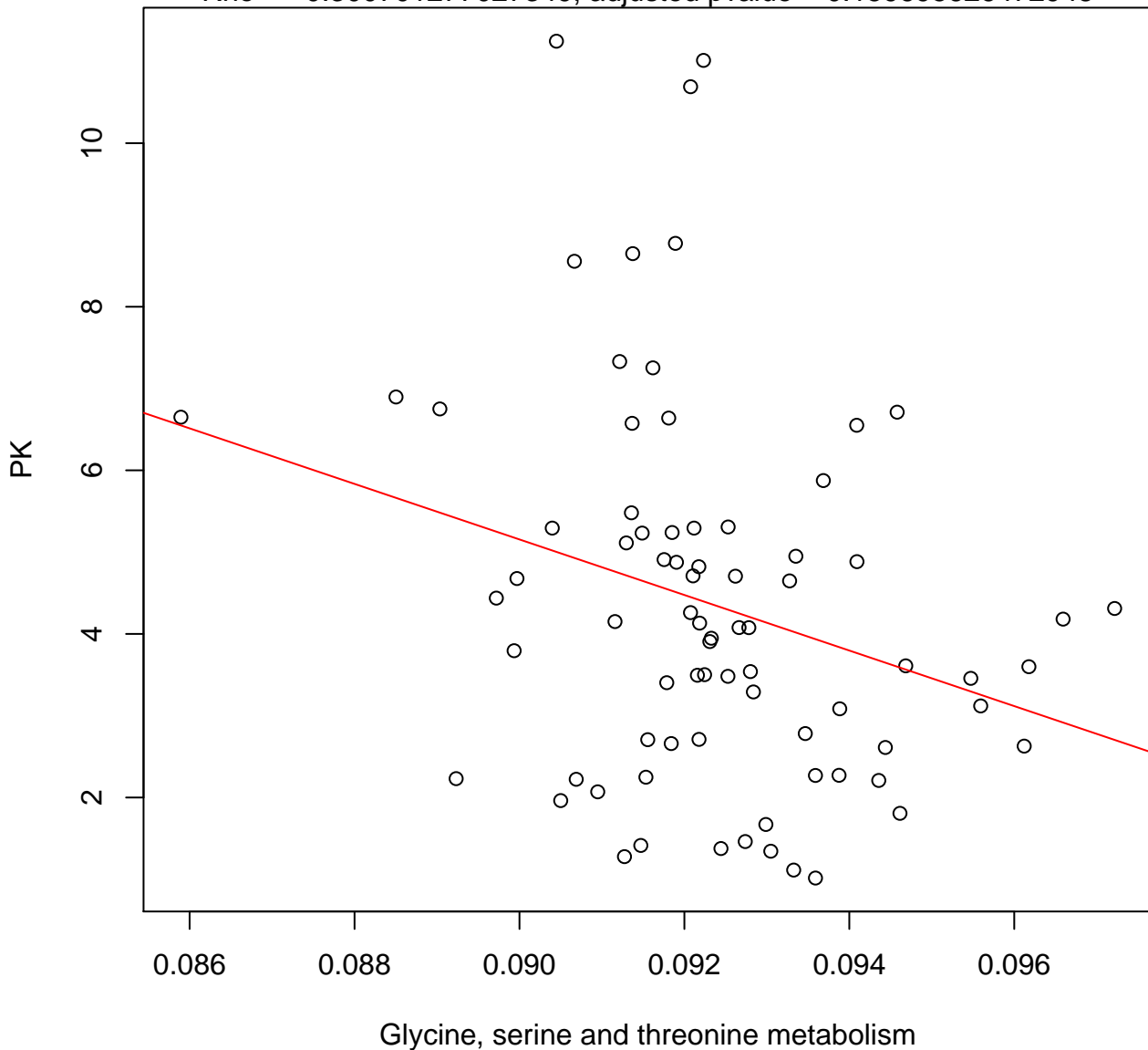
Timepoint 2 , PK ~ Glycosyltransferases

Rho = -0.273123410302249 , adjusted pvalue = 0.159695626472948



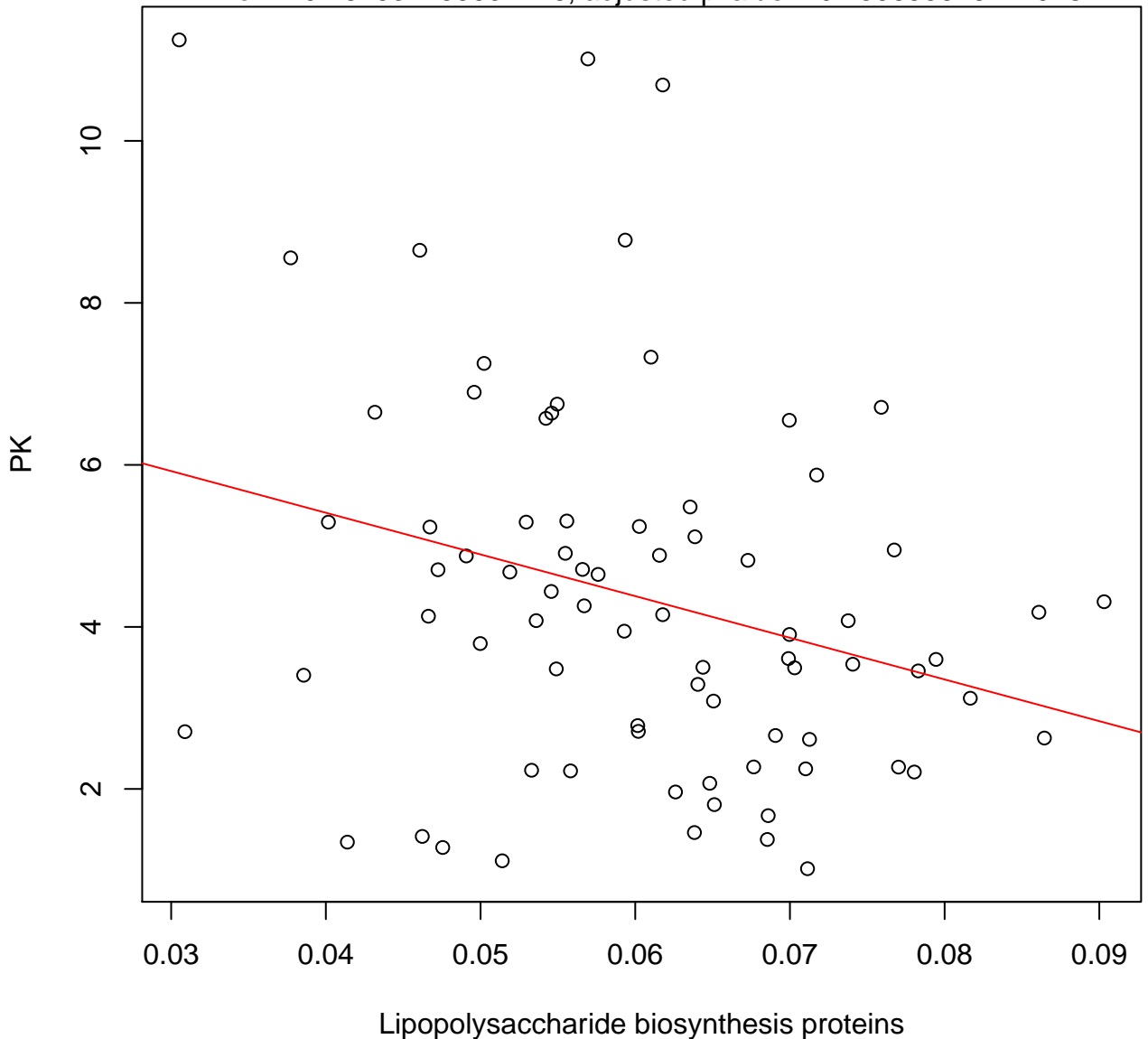
Timepoint 2 , PK ~ Glycine, serine and threonine metabolism

Rho = -0.300701277027349, adjusted pvalue = 0.159695626472948



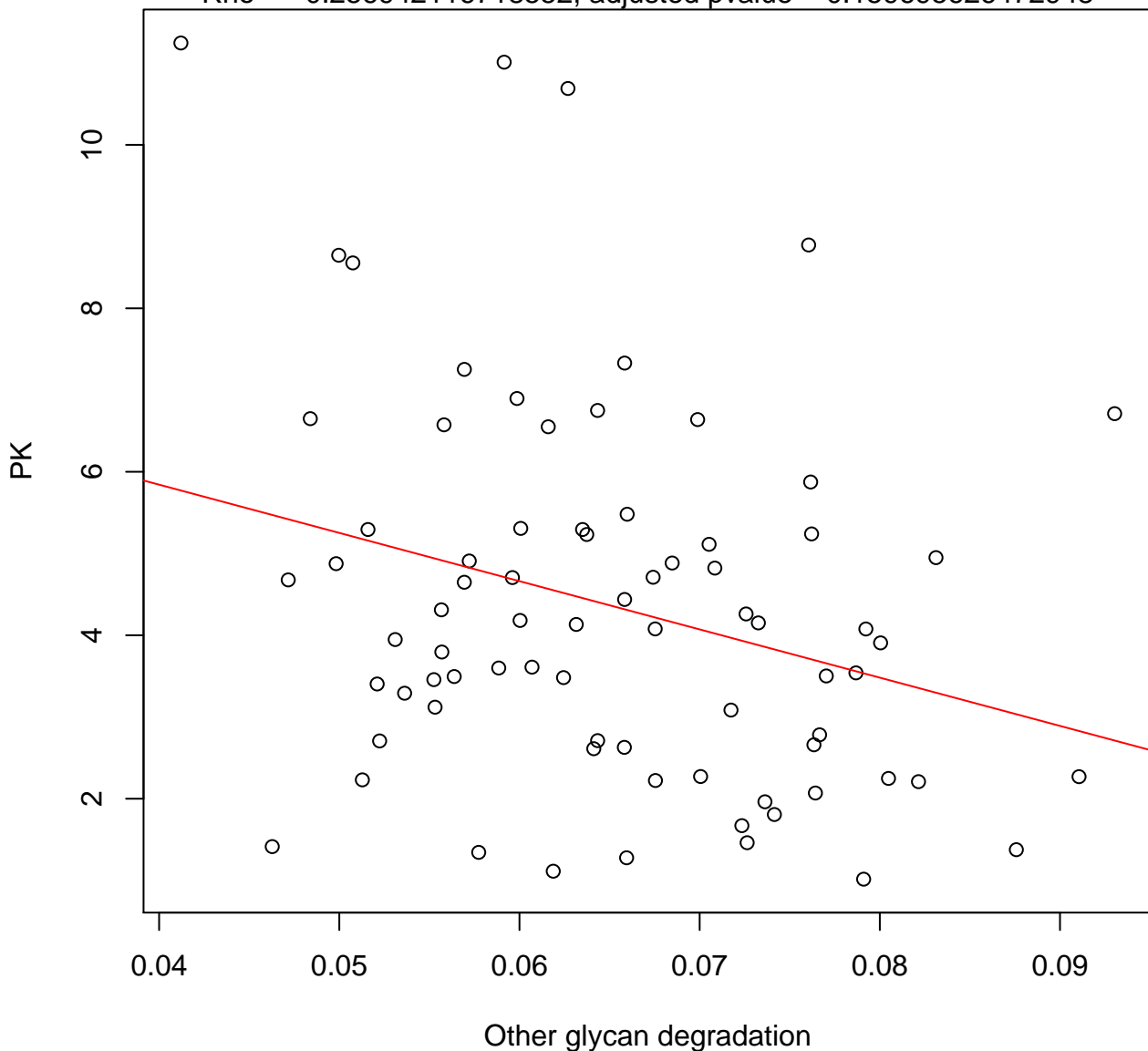
Timepoint 2 , PK ~ Lipopolysaccharide biosynthesis proteins

Rho = -0.267931199932176 , adjusted pvalue = 0.159695626472948



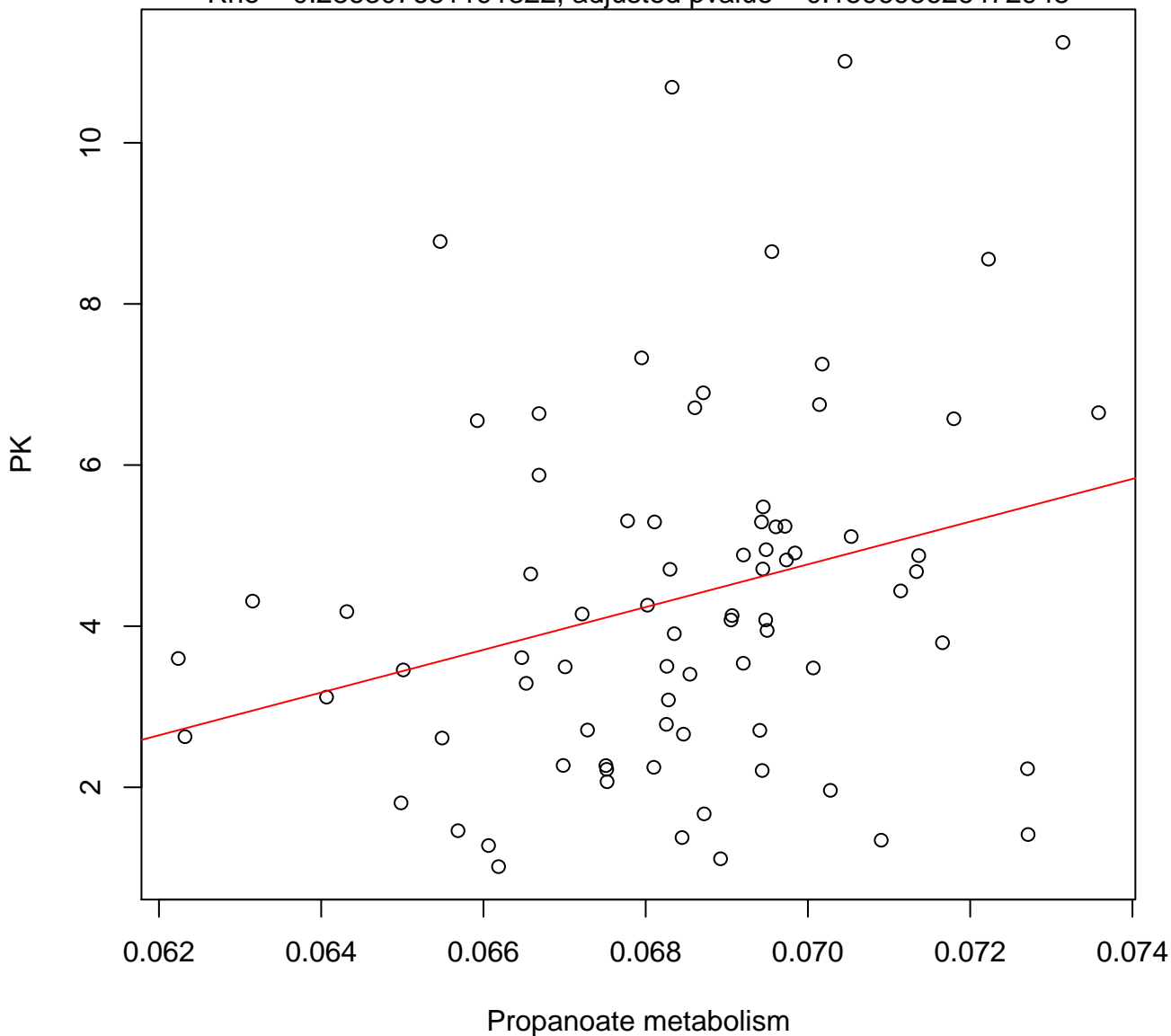
Timepoint 2 , PK ~ Other glycan degradation

Rho = -0.256942116718552 , adjusted pvalue = 0.159695626472948



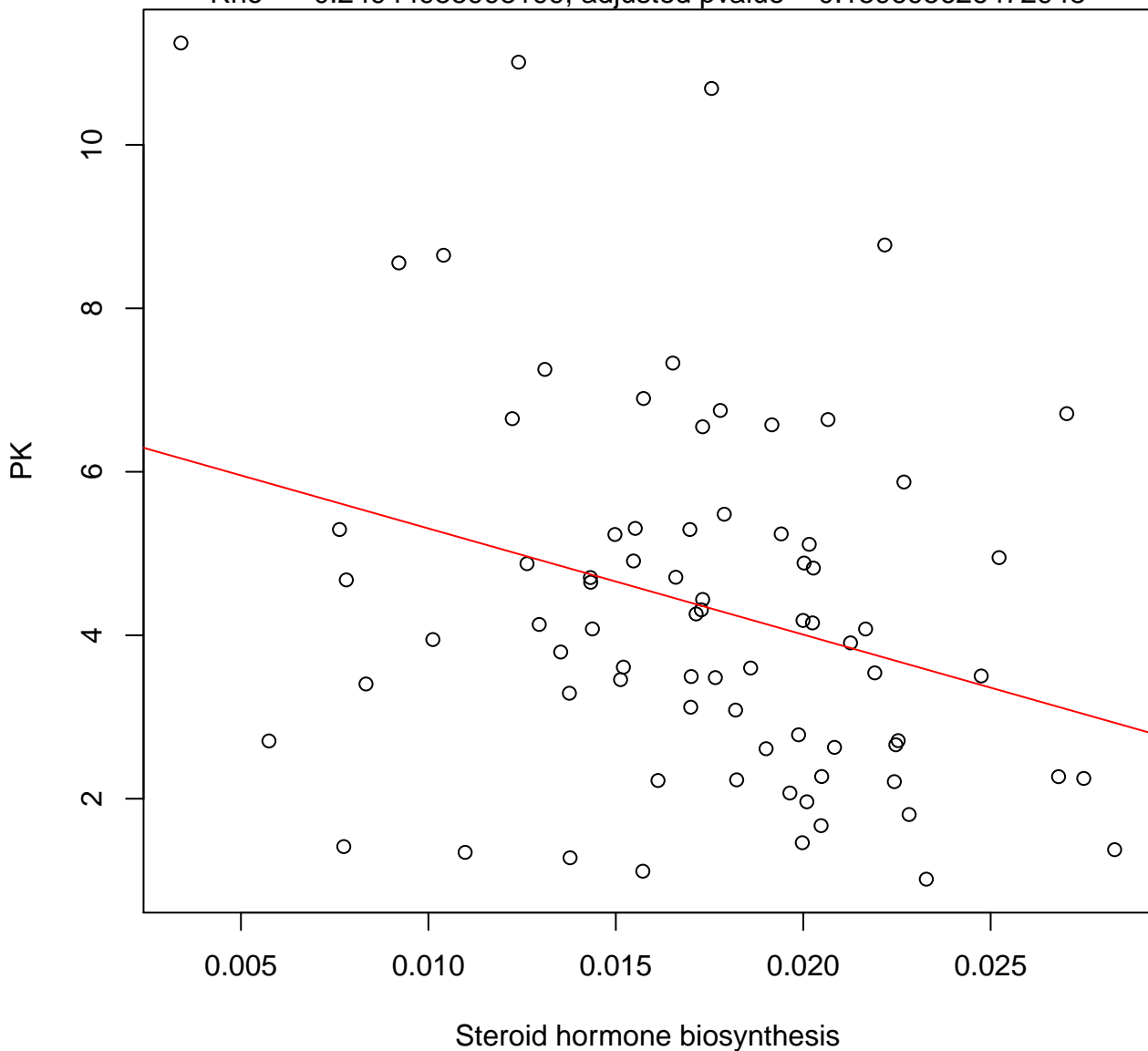
Timepoint 2 , PK ~ Propanoate metabolism

Rho = 0.286307681191322, adjusted pvalue = 0.159695626472948



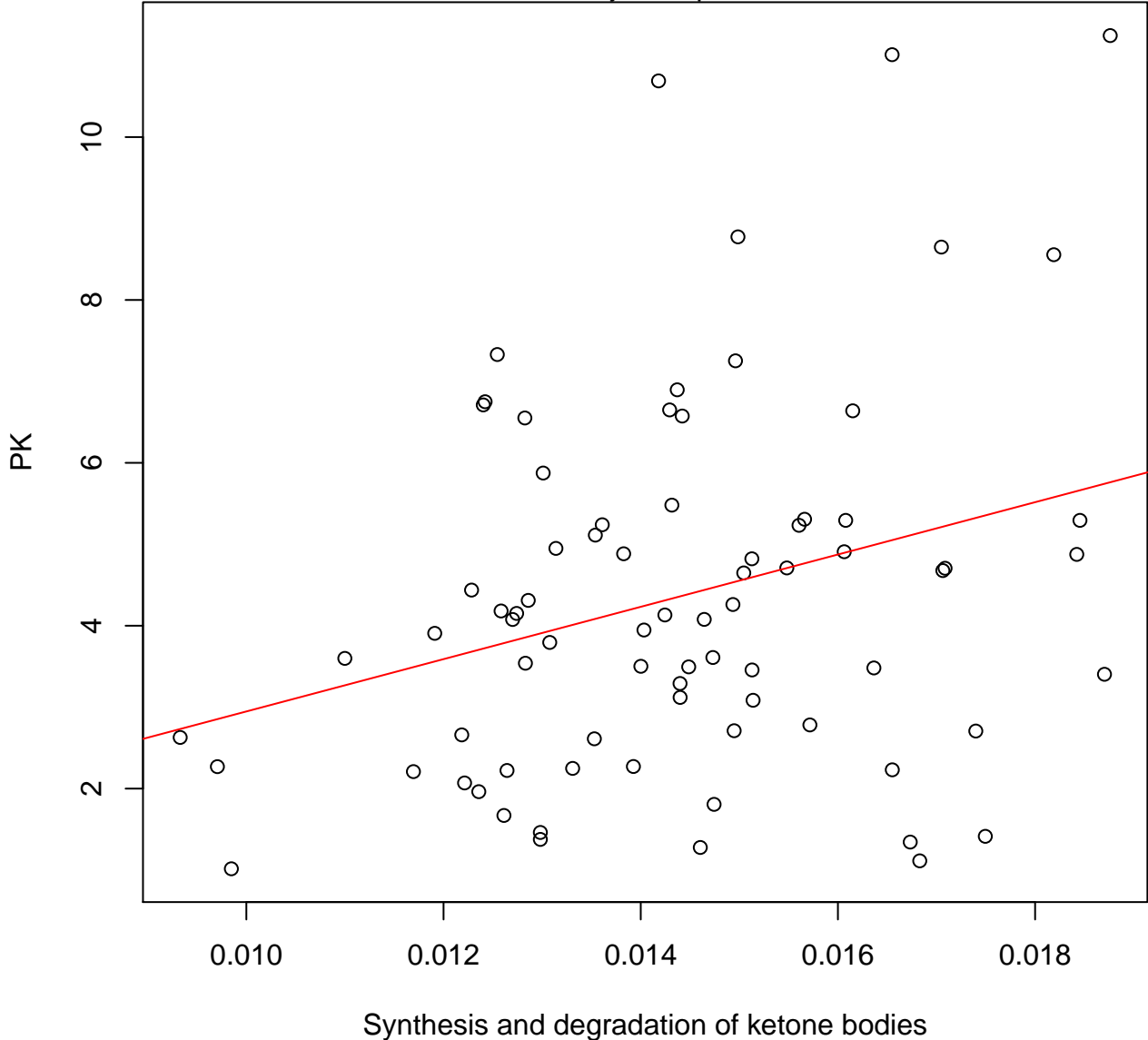
Timepoint 2 , PK ~ Steroid hormone biosynthesis

Rho = -0.24944955998199 , adjusted pvalue = 0.159695626472948



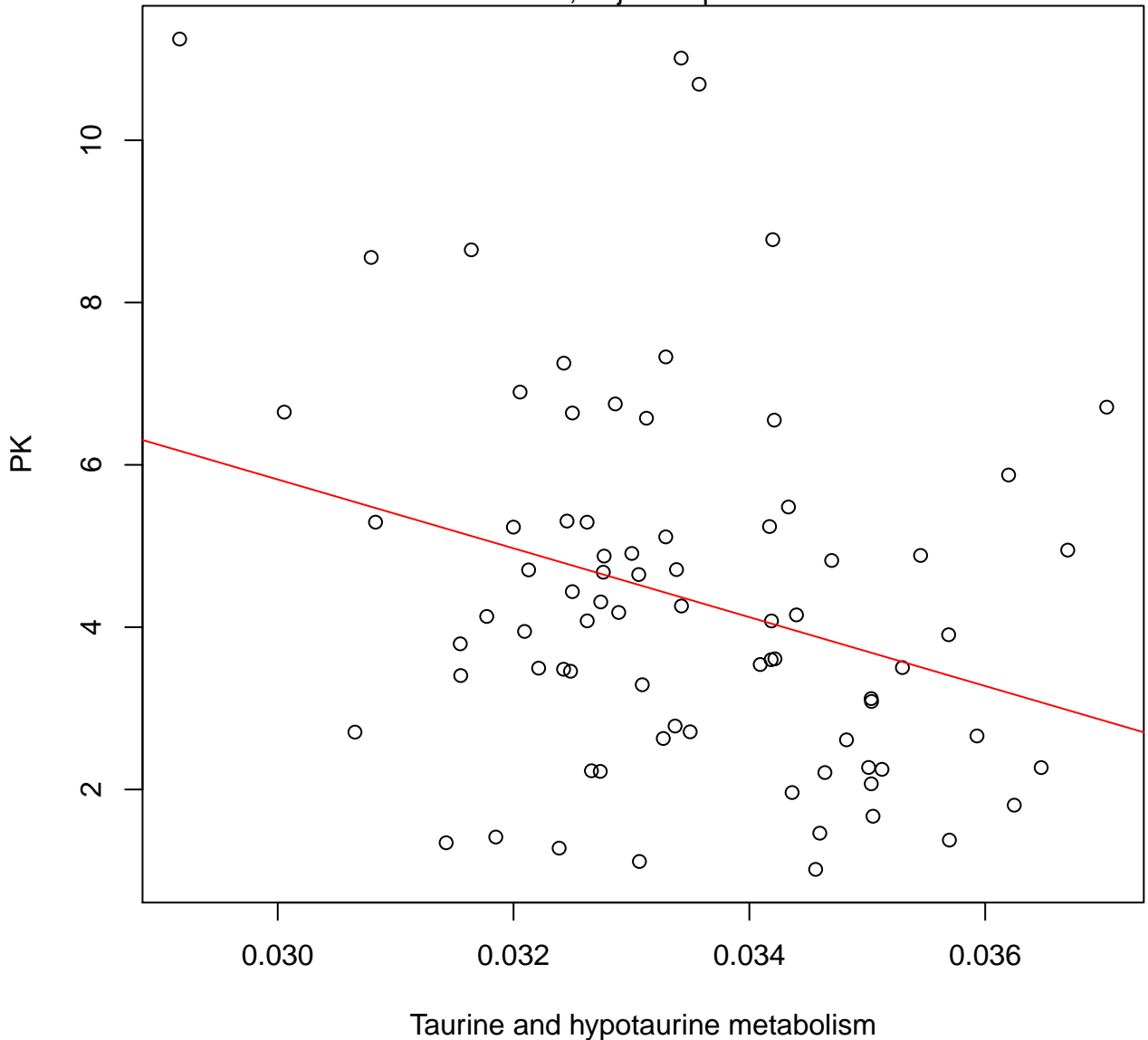
Timepoint 2 , PK ~ Synthesis and degradation of ketone bodies

Rho = 0.222568369585027, adjusted pvalue = 0.194463537300331



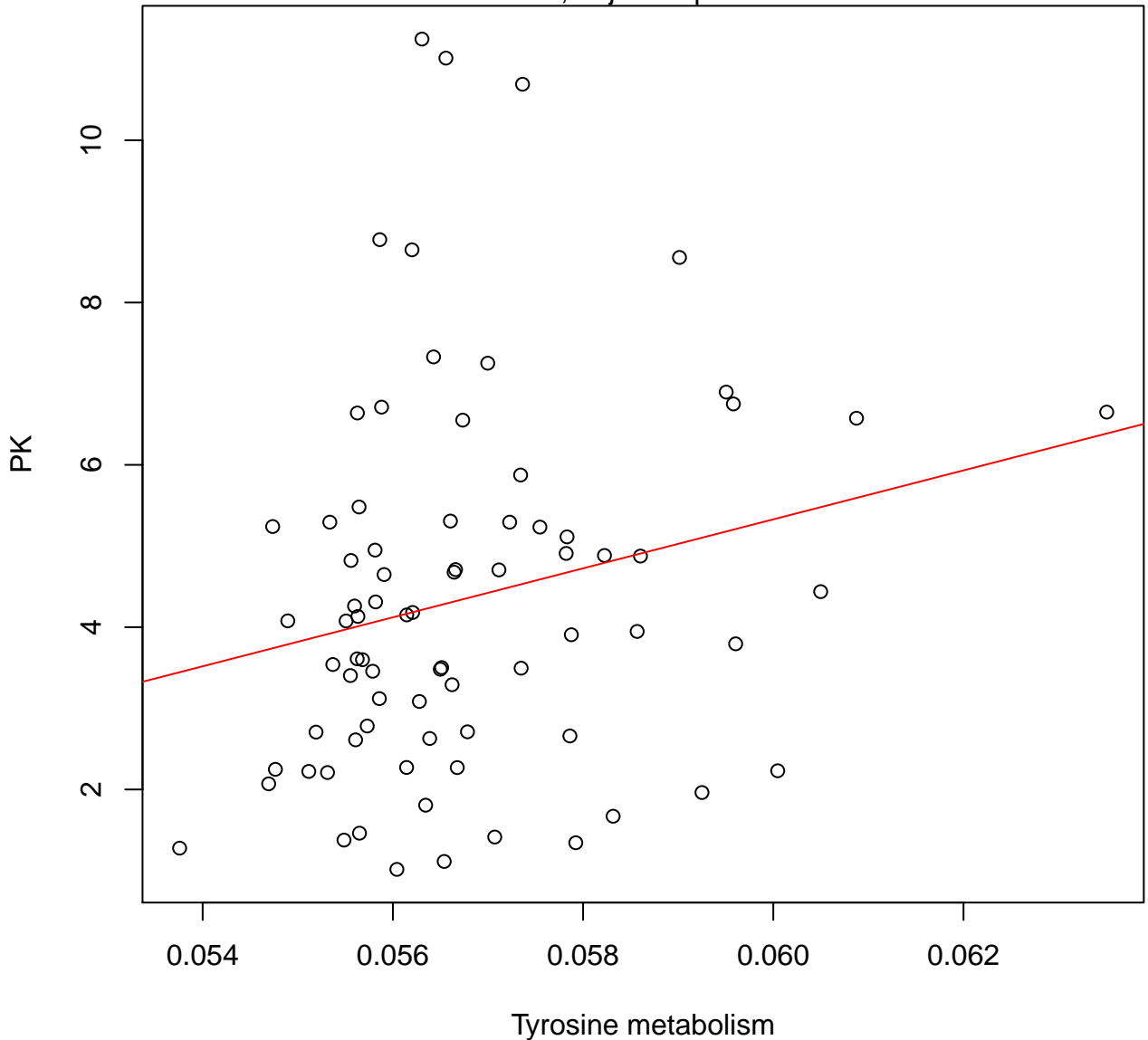
Timepoint 2 , PK ~ Taurine and hypotaurine metabolism

Rho = -0.247582993216039 , adjusted pvalue = 0.159695626472948



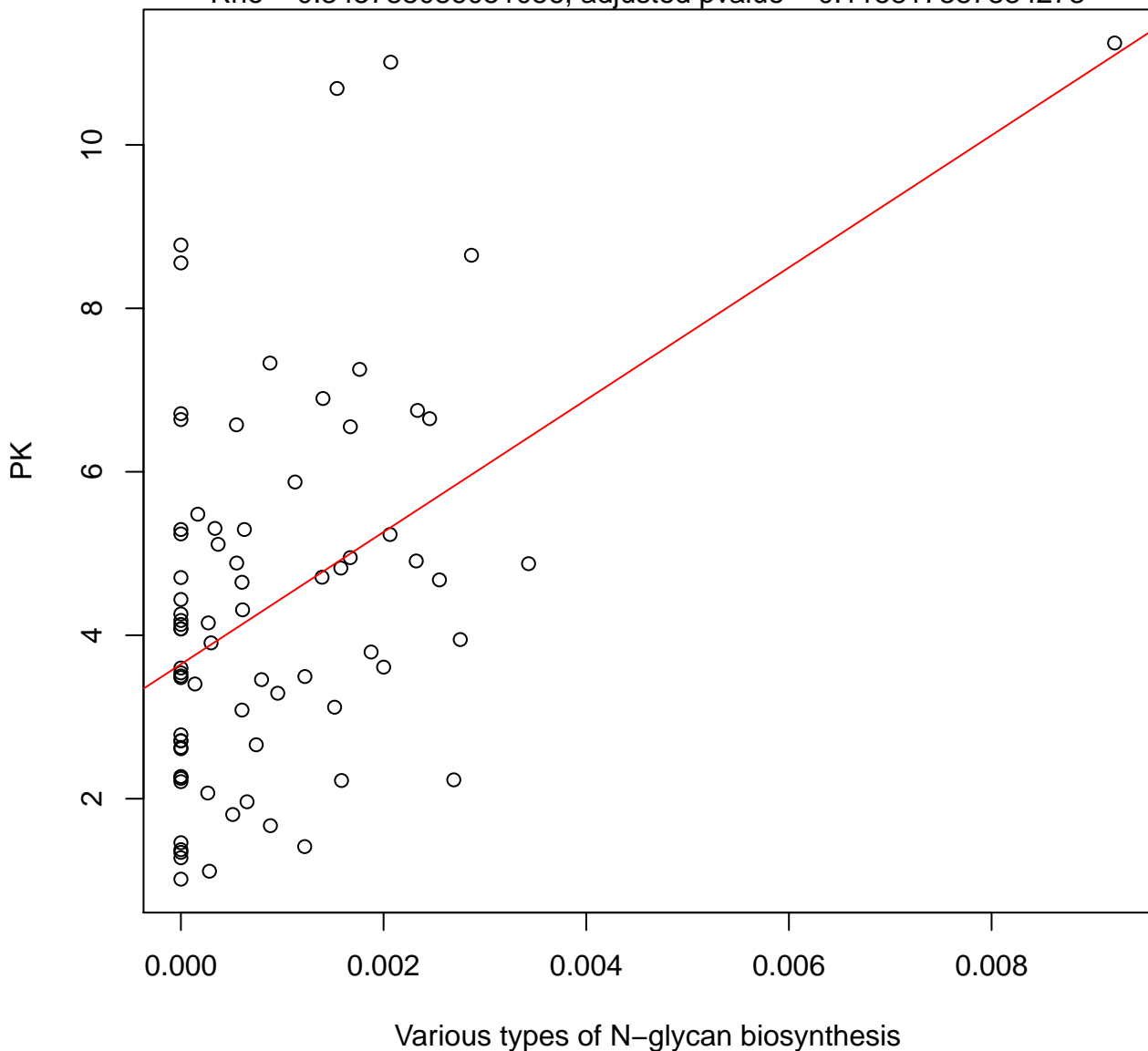
Timepoint 2 , PK ~ Tyrosine metabolism

Rho = 0.248305959216936, adjusted pvalue = 0.159695626472948



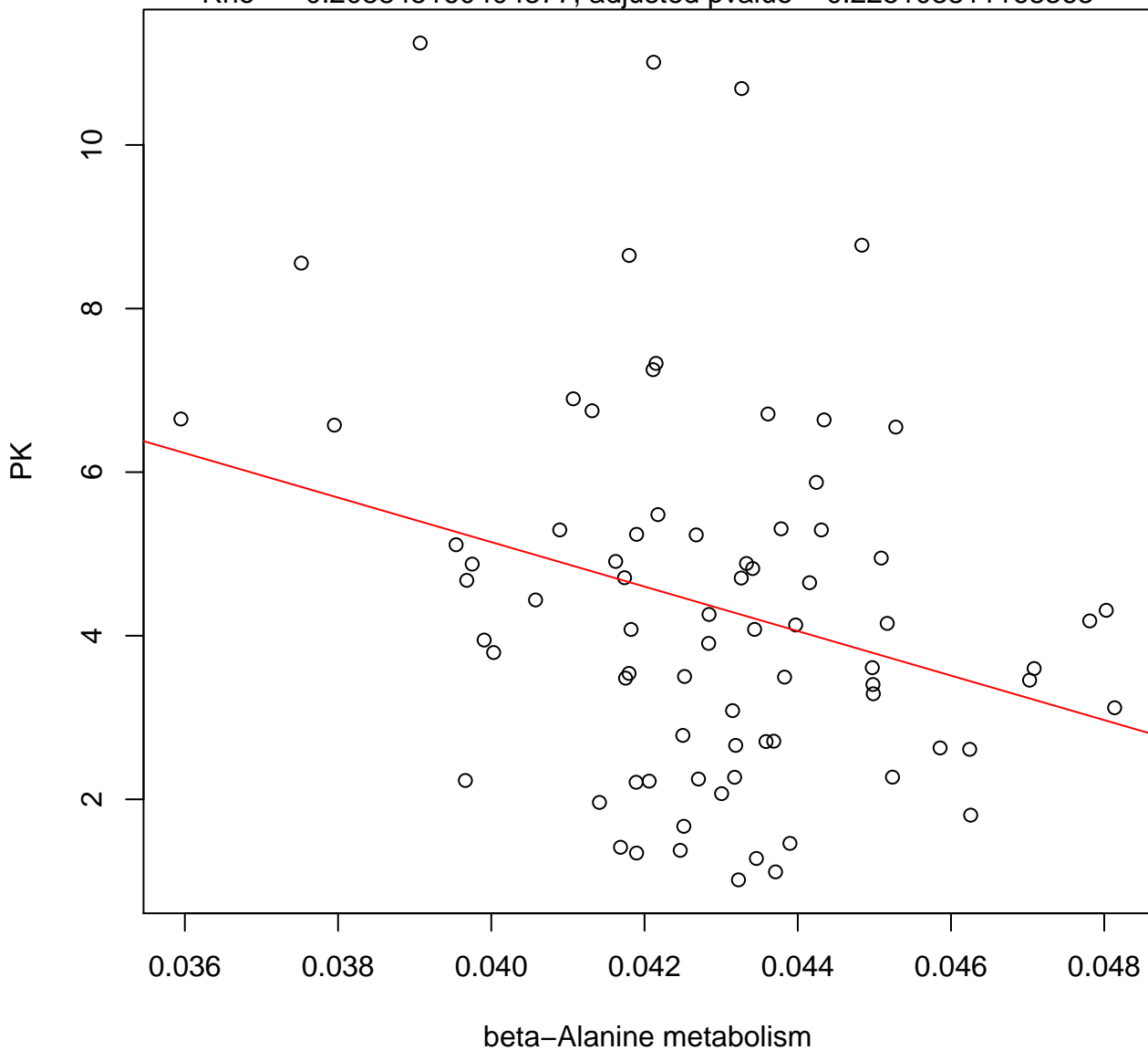
Timepoint 2 , PK ~ Various types of N-glycan biosynthesis

Rho = 0.345788086051056, adjusted pvalue = 0.115817387884273



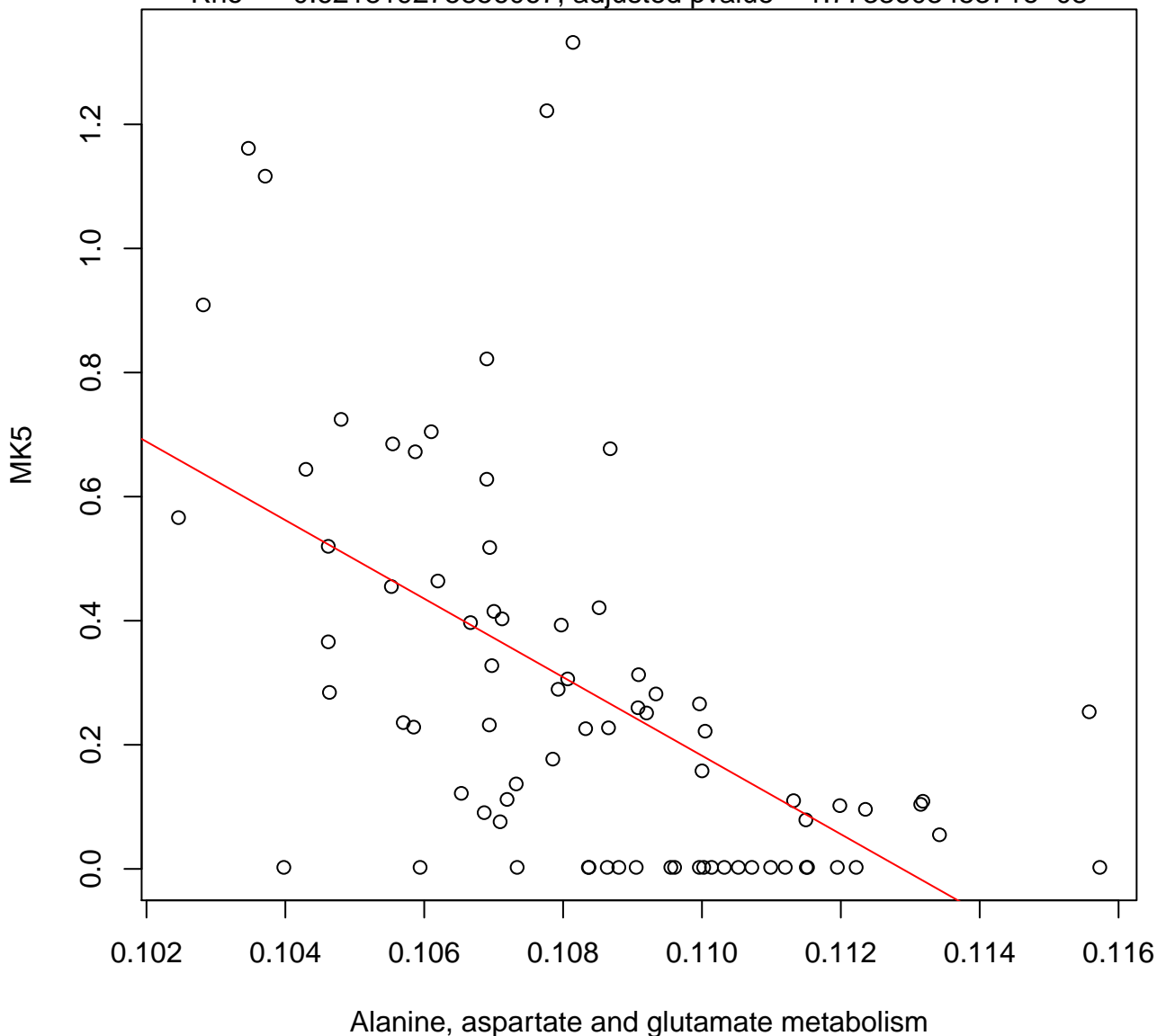
Timepoint 2 , PK ~ beta-Alanine metabolism

Rho = -0.208845160404377 , adjusted pvalue = 0.225103811168363

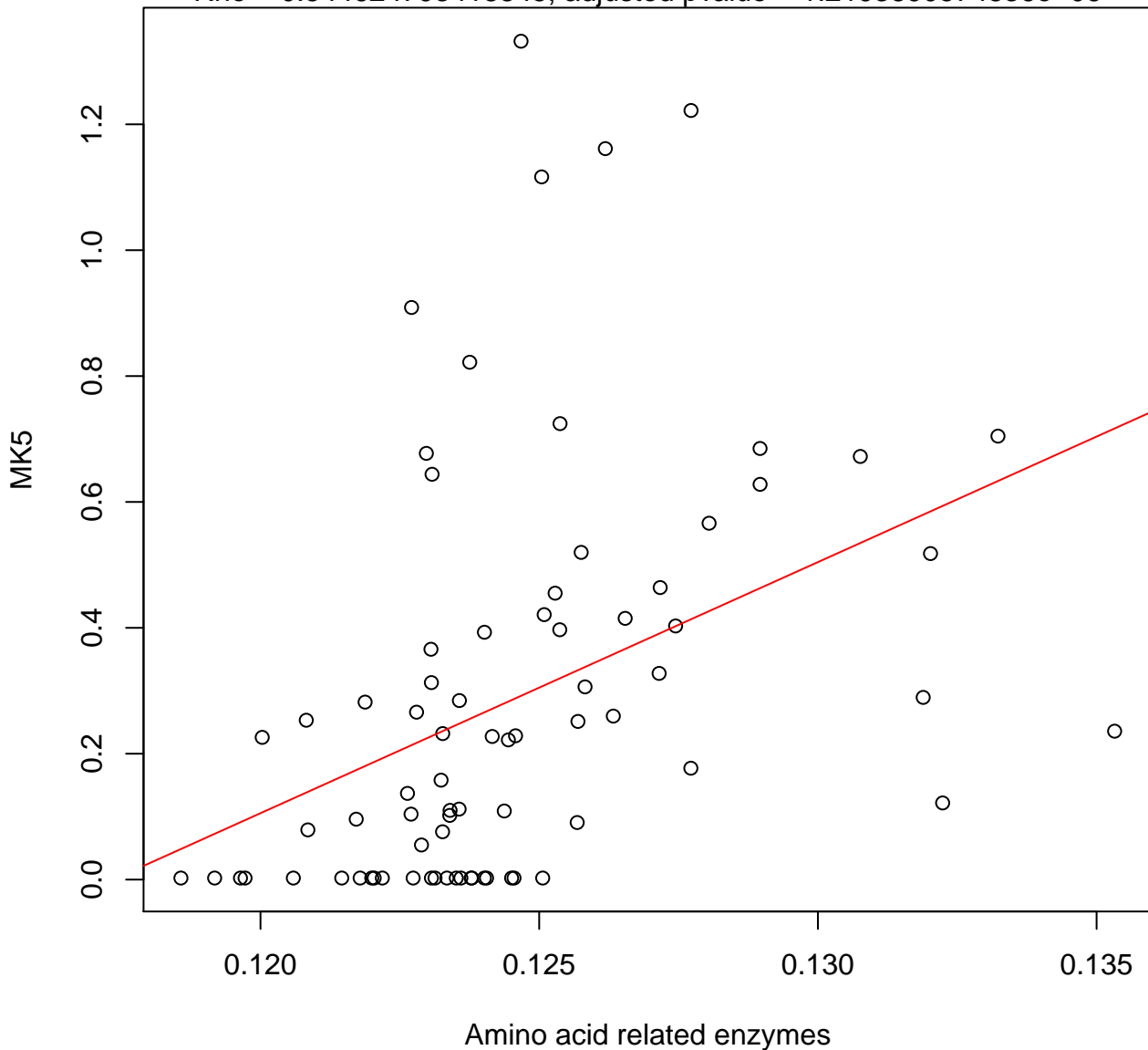


Timepoint 2 , MK5 ~ Alanine, aspartate and glutamate metabolism

Rho = -0.621819275856067 , adjusted pvalue = $1.773360345371e-08$

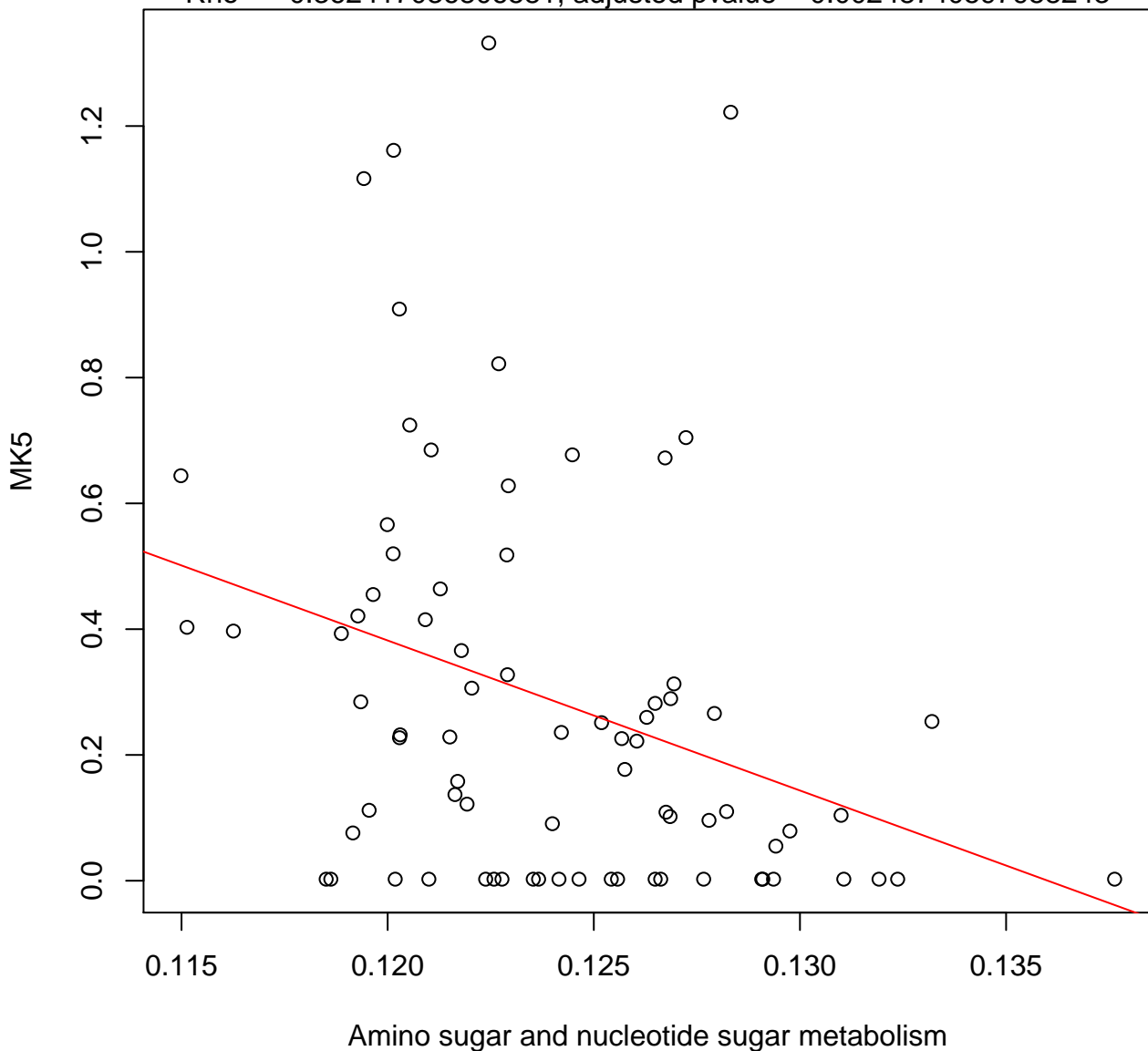


Rho = 0.544624793418845, adjusted pvalue = 1.2193890574836e-06



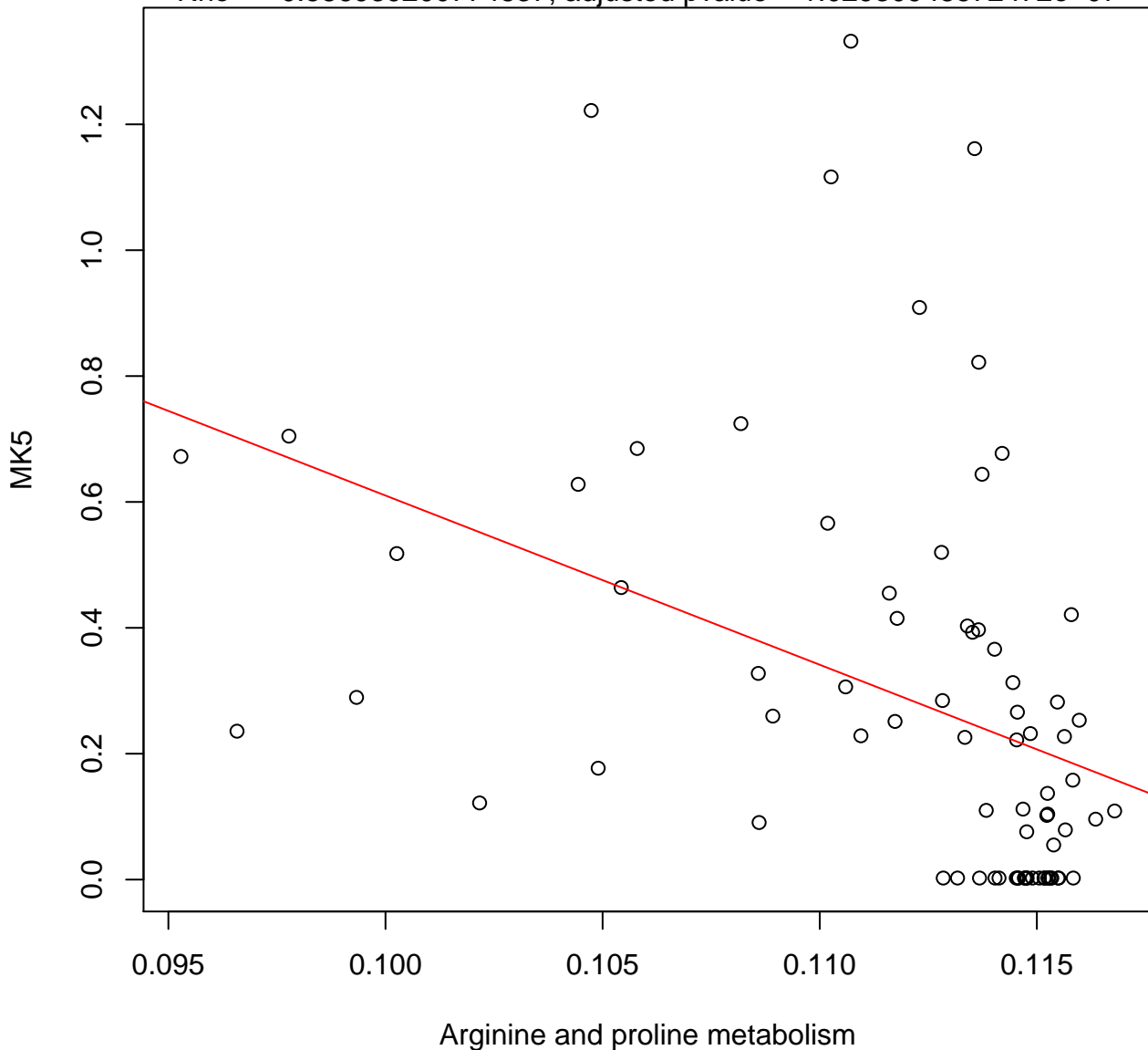
Timepoint 2 , MK5 ~ Amino sugar and nucleotide sugar metabolism

Rho = -0.362417036806581 , adjusted pvalue = 0.00248740597958243



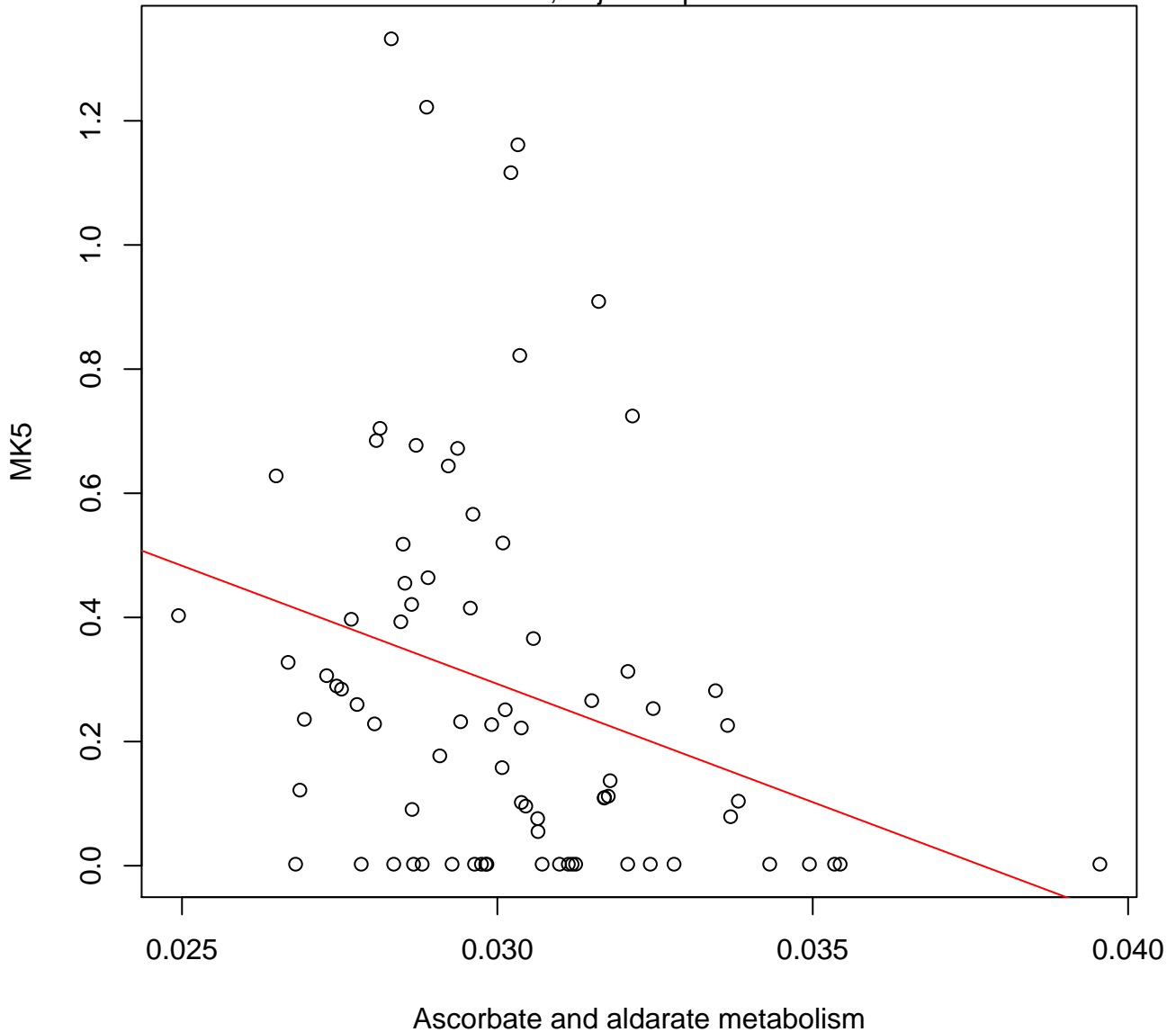
Timepoint 2, MK5 ~ Arginine and proline metabolism

Rho = -0.586939200774837, adjusted pvalue = 1.02930948572472e-07



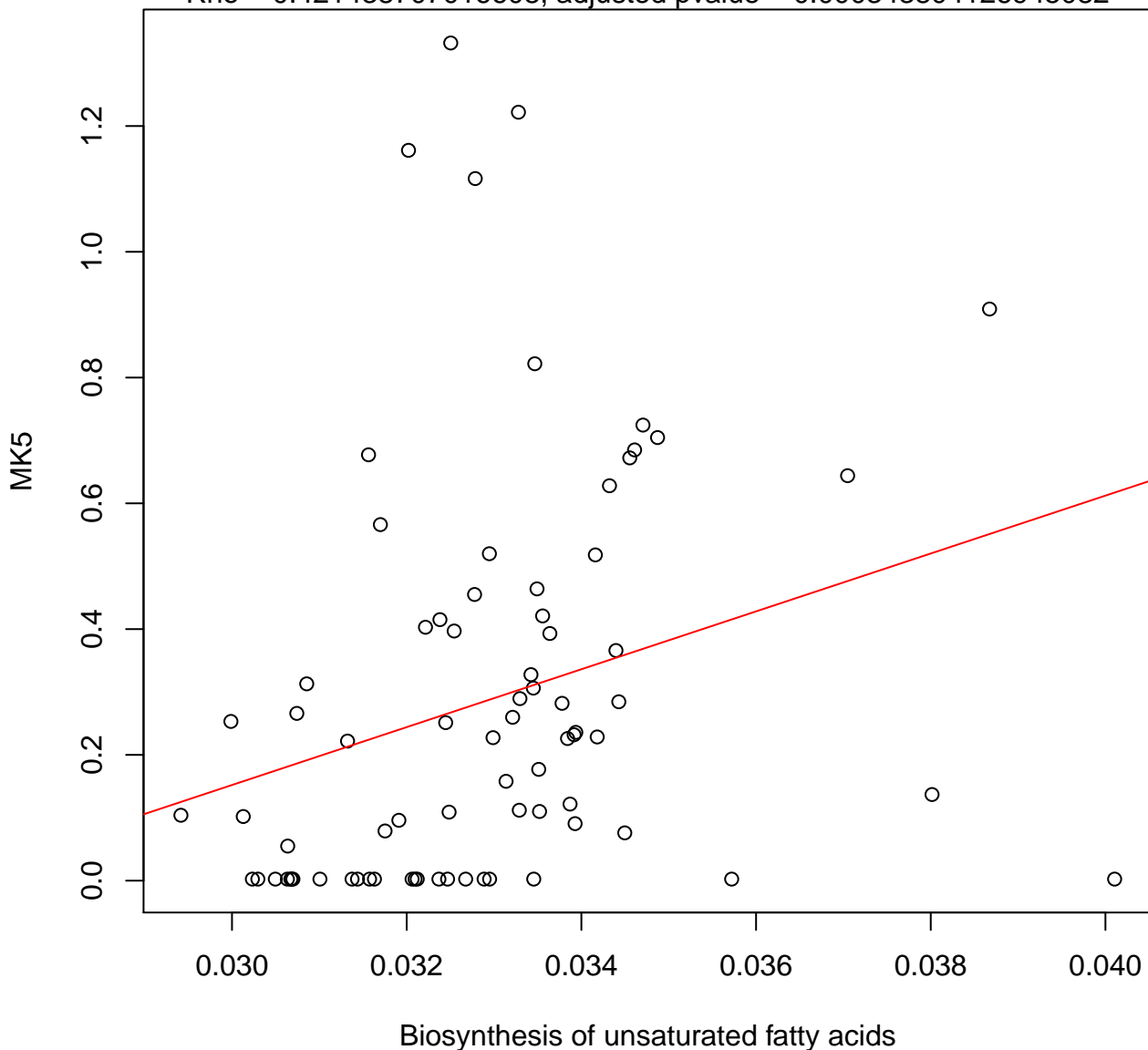
Timepoint 2 , MK5 ~ Ascorbate and aldarate metabolism

Rho = -0.362763439385692, adjusted pvalue = 0.00248740597958243



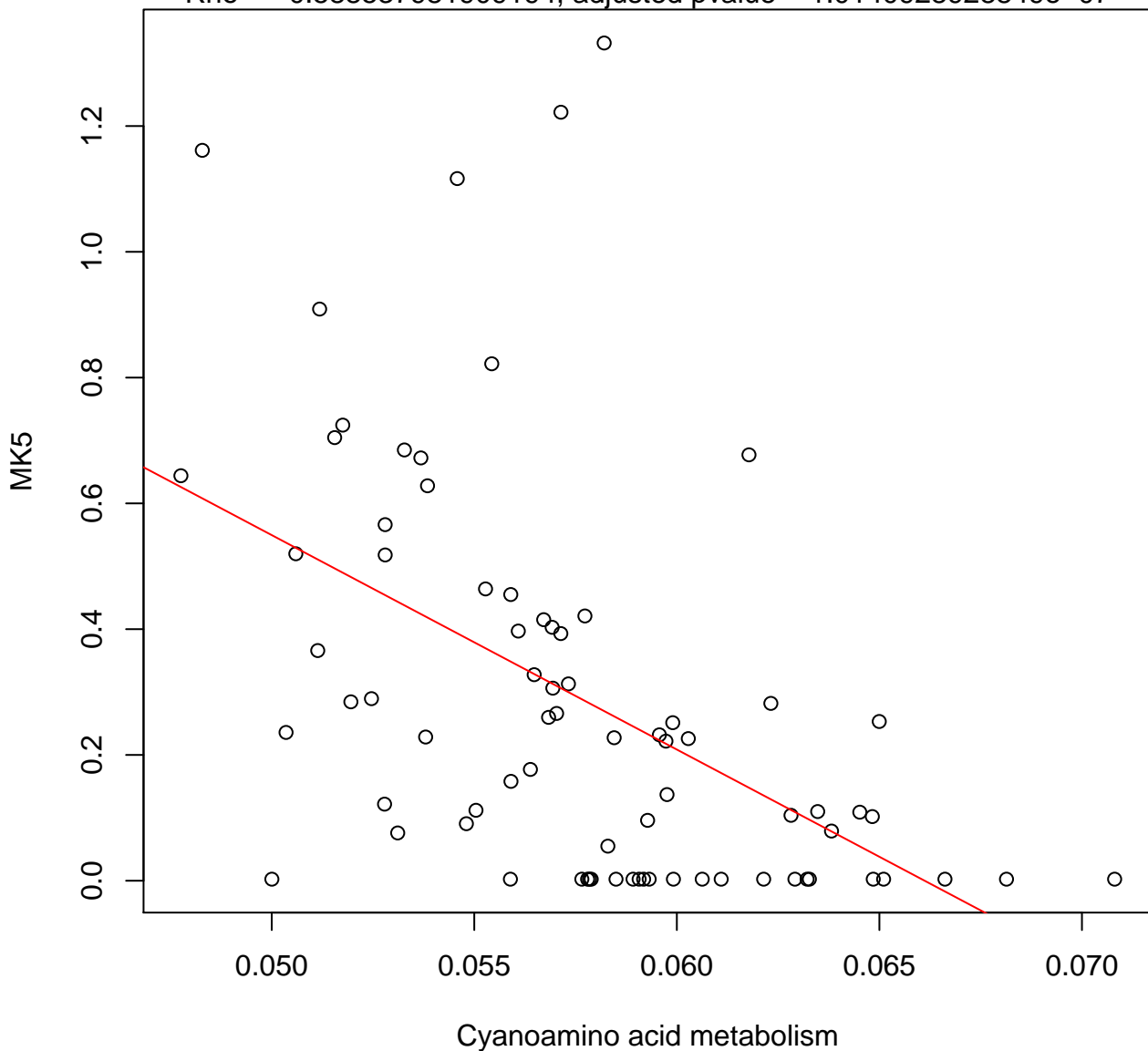
Timepoint 2 , MK5 ~ Biosynthesis of unsaturated fatty acids

Rho = 0.421438707016608, adjusted pvalue = 0.000343804126945082



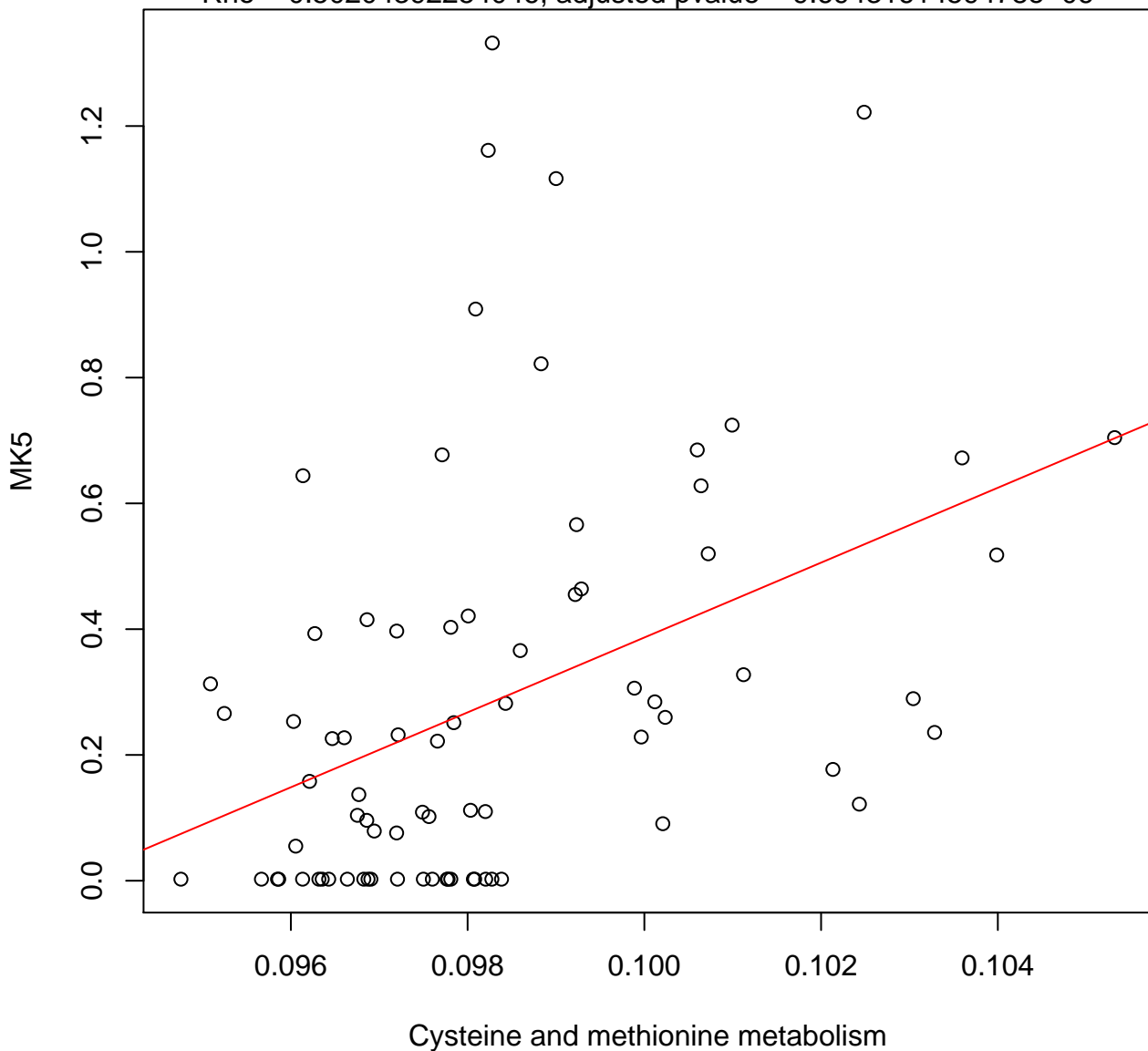
Timepoint 2 , MK5 ~ Cyanoamino acid metabolism

Rho = -0.588537981909194 , adjusted pvalue = $1.0140928928849e-07$



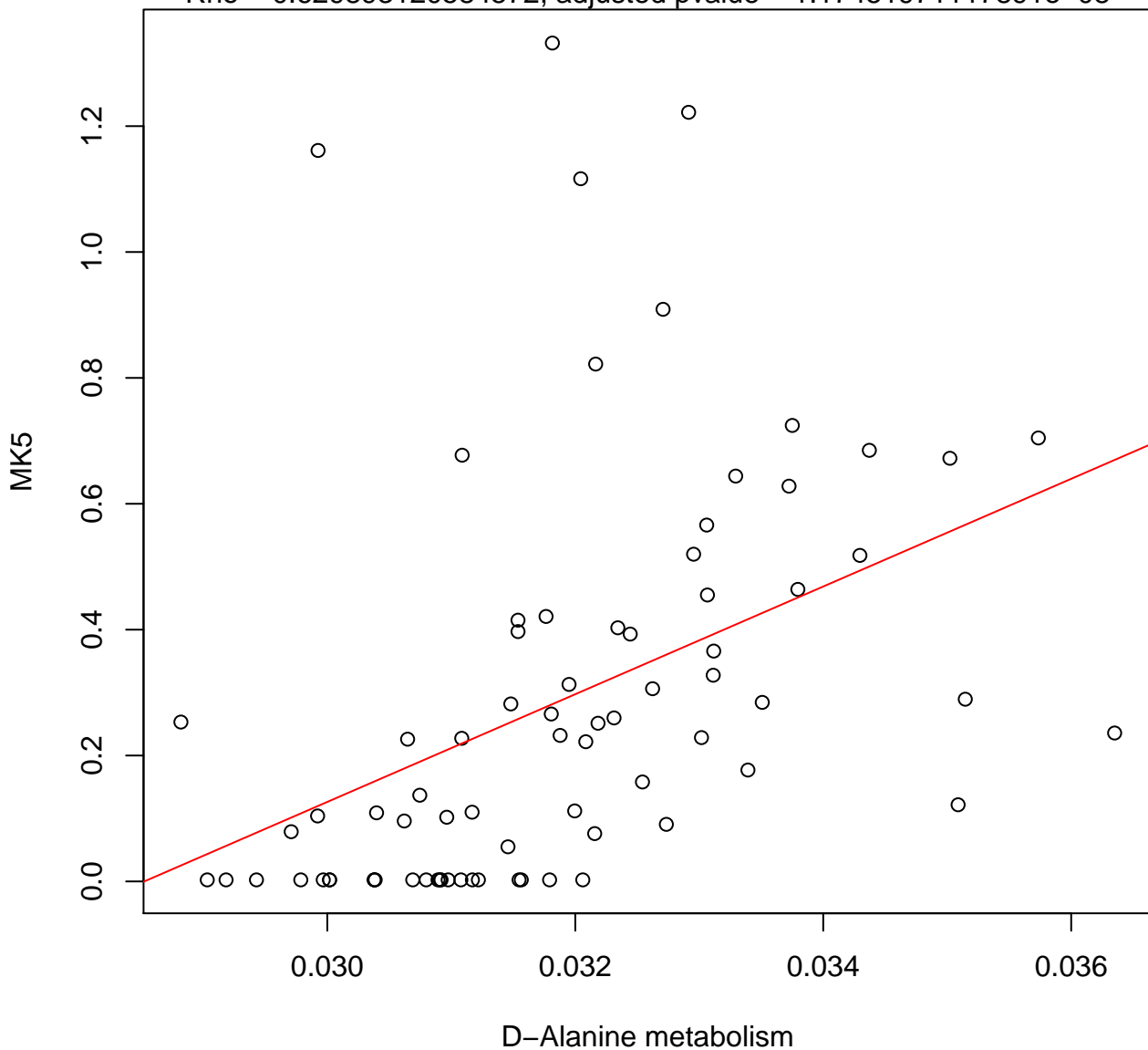
Timepoint 2 , MK5 ~ Cysteine and methionine metabolism

Rho = 0.50204392254046, adjusted pvalue = 9.6943161459478e-06



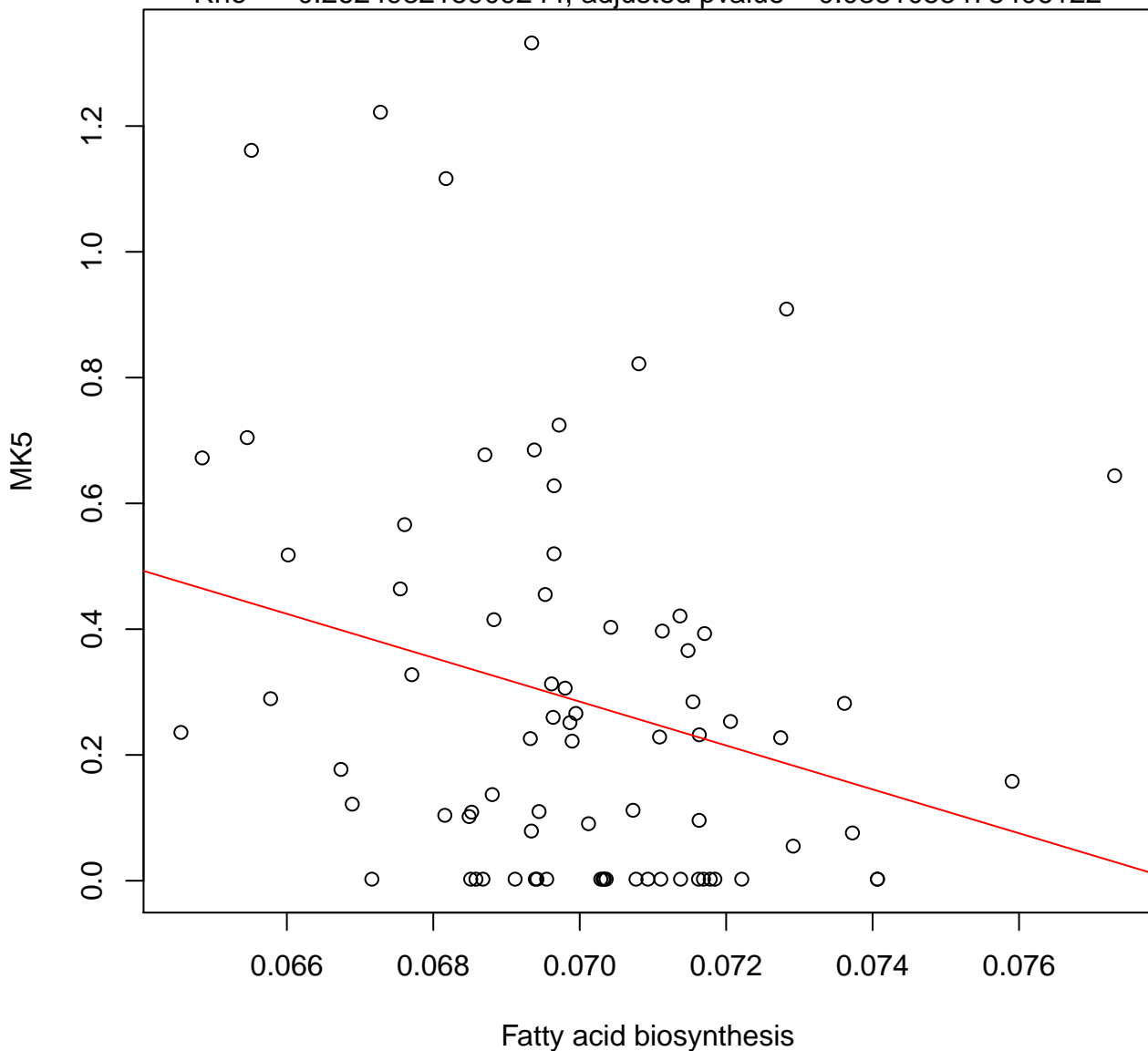
Timepoint 2 , MK5 ~ D-Alanine metabolism

Rho = 0.629893120584572, adjusted pvalue = 1.17451971117891e-08



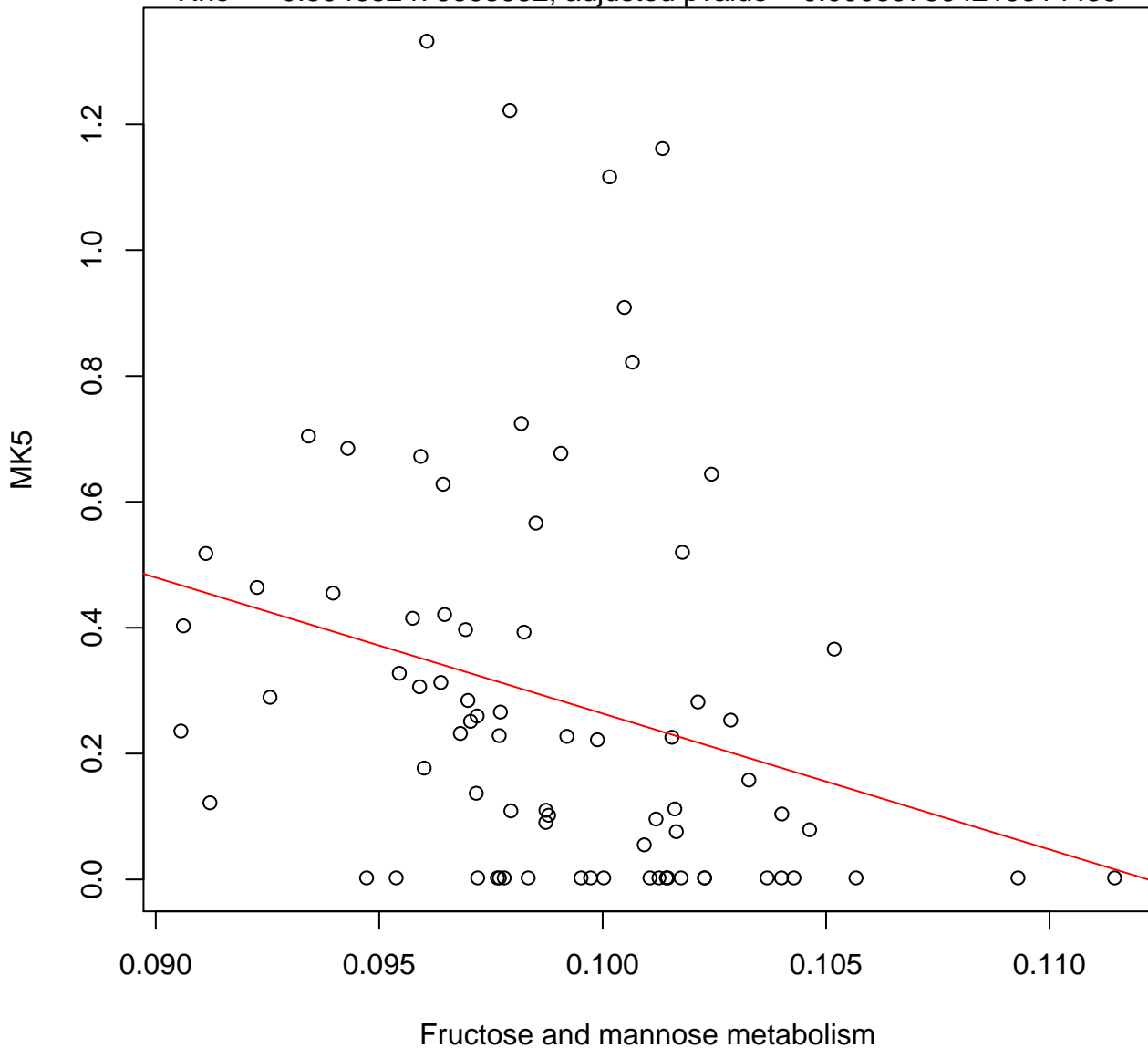
Timepoint 2 , MK5 ~ Fatty acid biosynthesis

Rho = -0.262493215909244 , adjusted pvalue = 0.0381055475406122



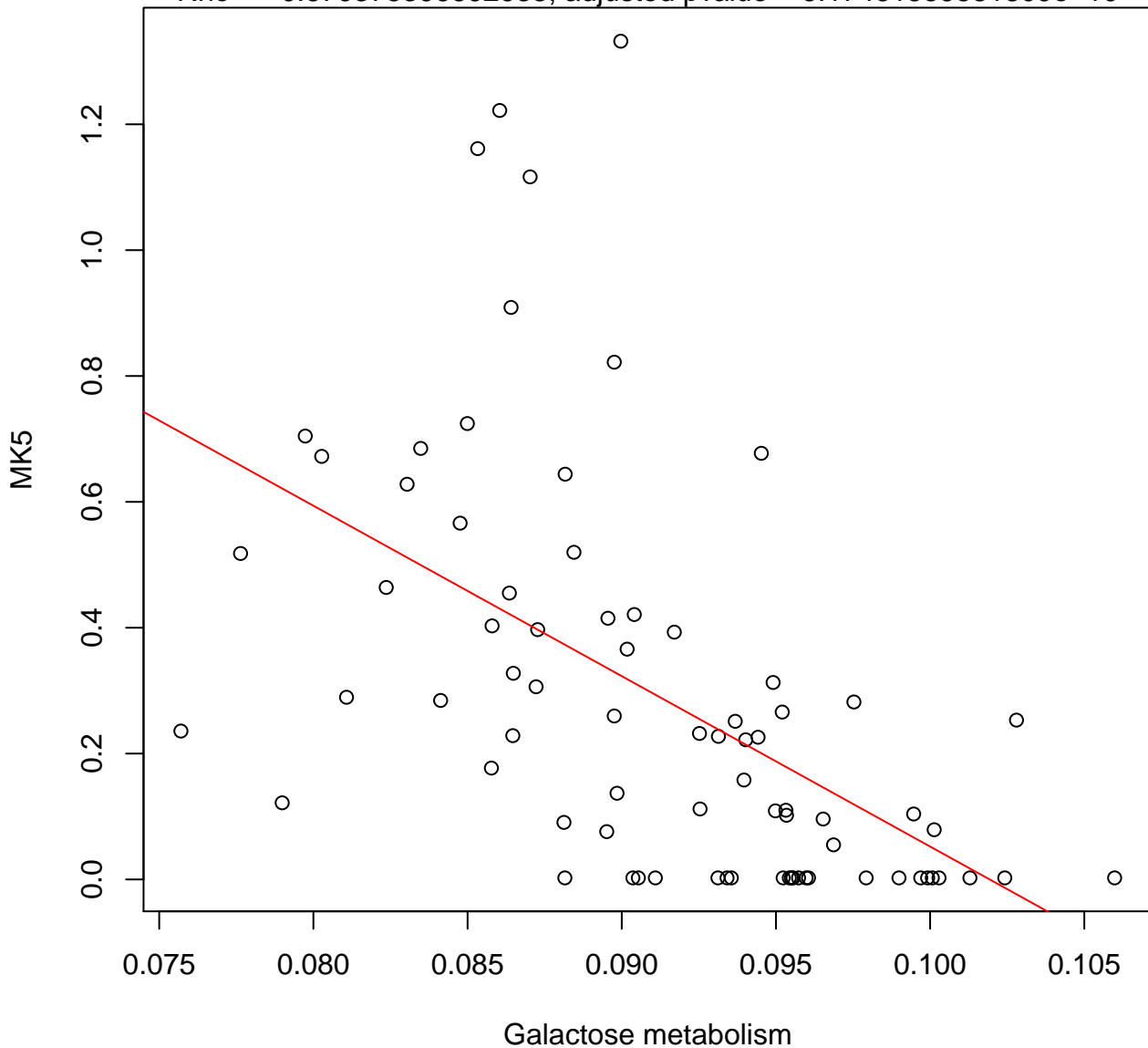
Timepoint 2 , MK5 ~ Fructose and mannose metabolism

Rho = -0.394632476663882 , adjusted pvalue = 0.000857864219314439



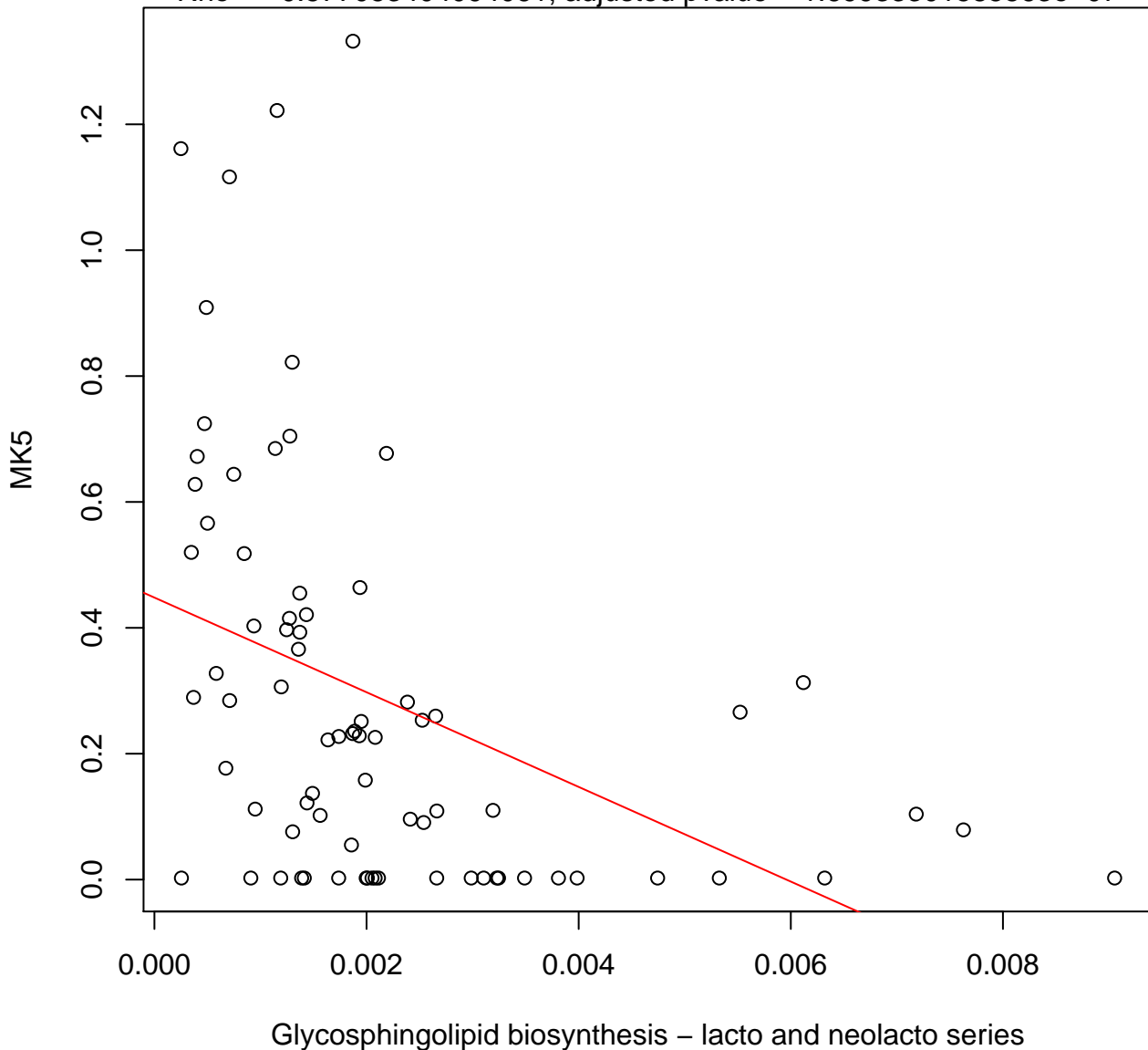
Timepoint 2 , MK5 ~ Galactose metabolism

Rho = -0.679375396692933 , adjusted pvalue = $6.17461559581809e-10$



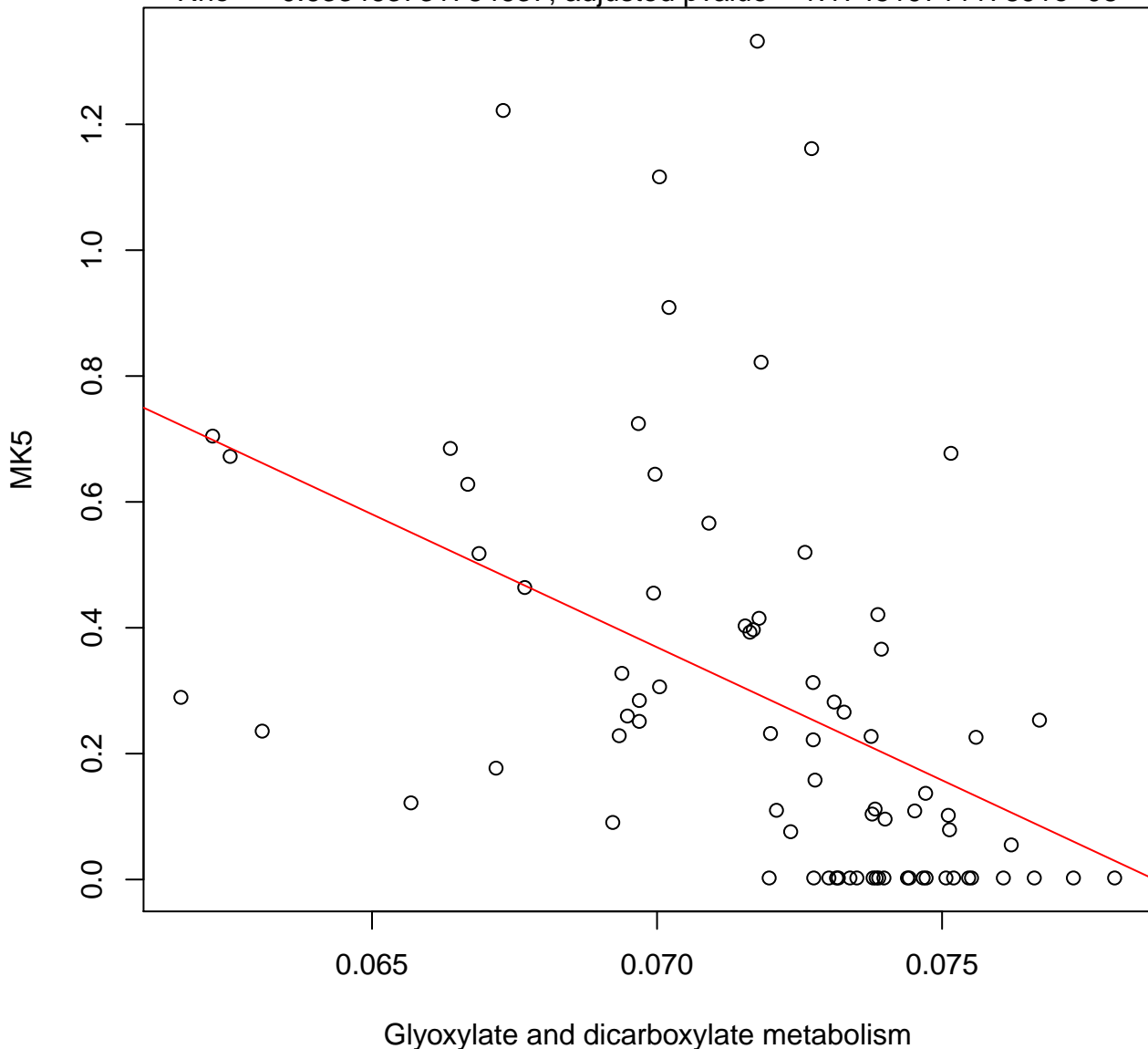
Timepoint 2 , MK5 ~ Glycosphingolipid biosynthesis – lacto and neolacto s

Rho = -0.577053404094061 , adjusted pvalue = $1.69933301585563e-07$



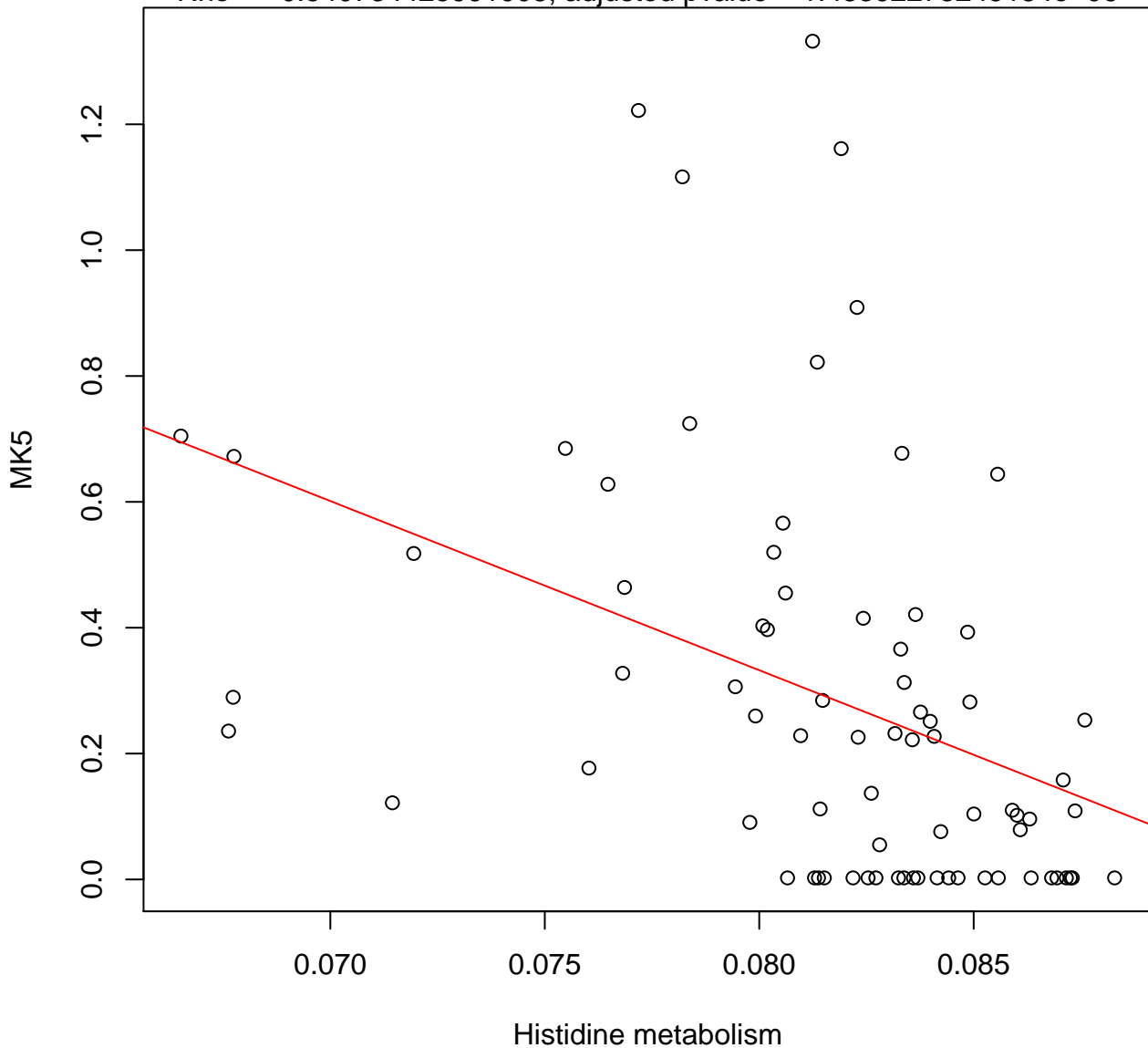
Timepoint 2 , MK5 ~ Glyoxylate and dicarboxylate metabolism

Rho = -0.633463731784637 , adjusted pvalue = $1.17451971117891e-08$



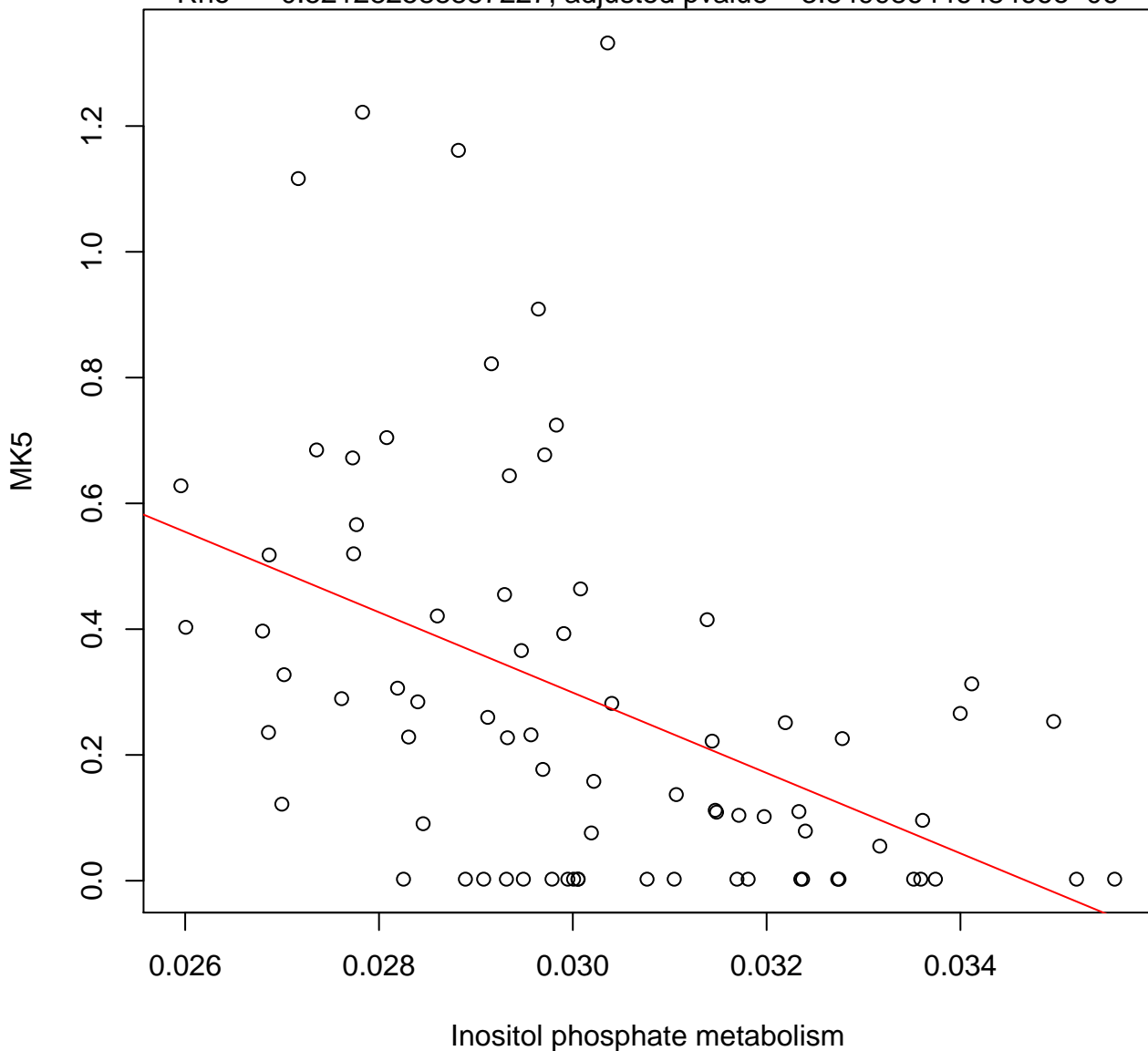
Timepoint 2 , MK5 ~ Histidine metabolism

Rho = -0.540734425991908 , adjusted pvalue = $1.43392273245184e-06$



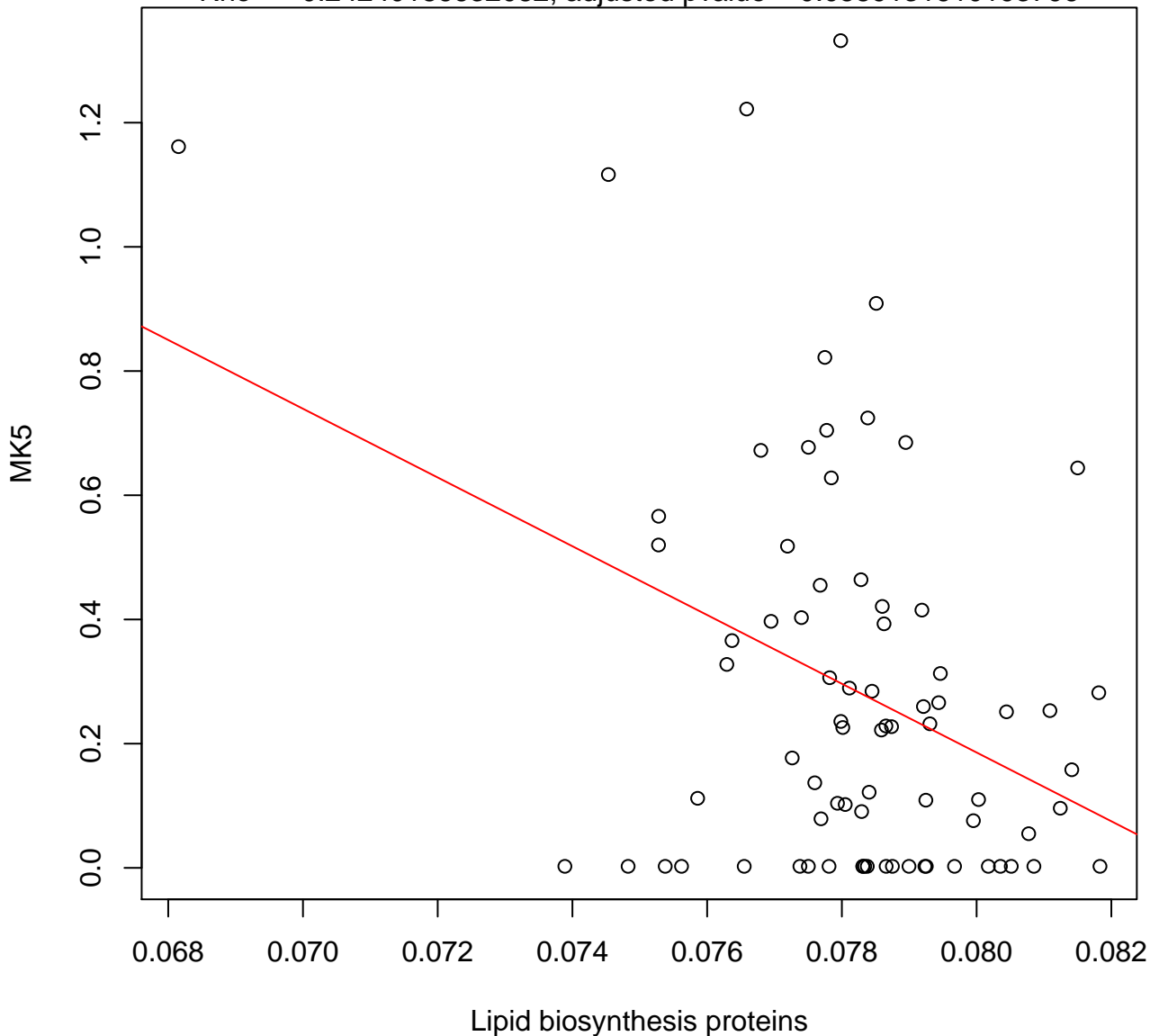
Timepoint 2 , MK5 ~ Inositol phosphate metabolism

Rho = -0.521282588857227 , adjusted pvalue = $3.84998644648466e-06$



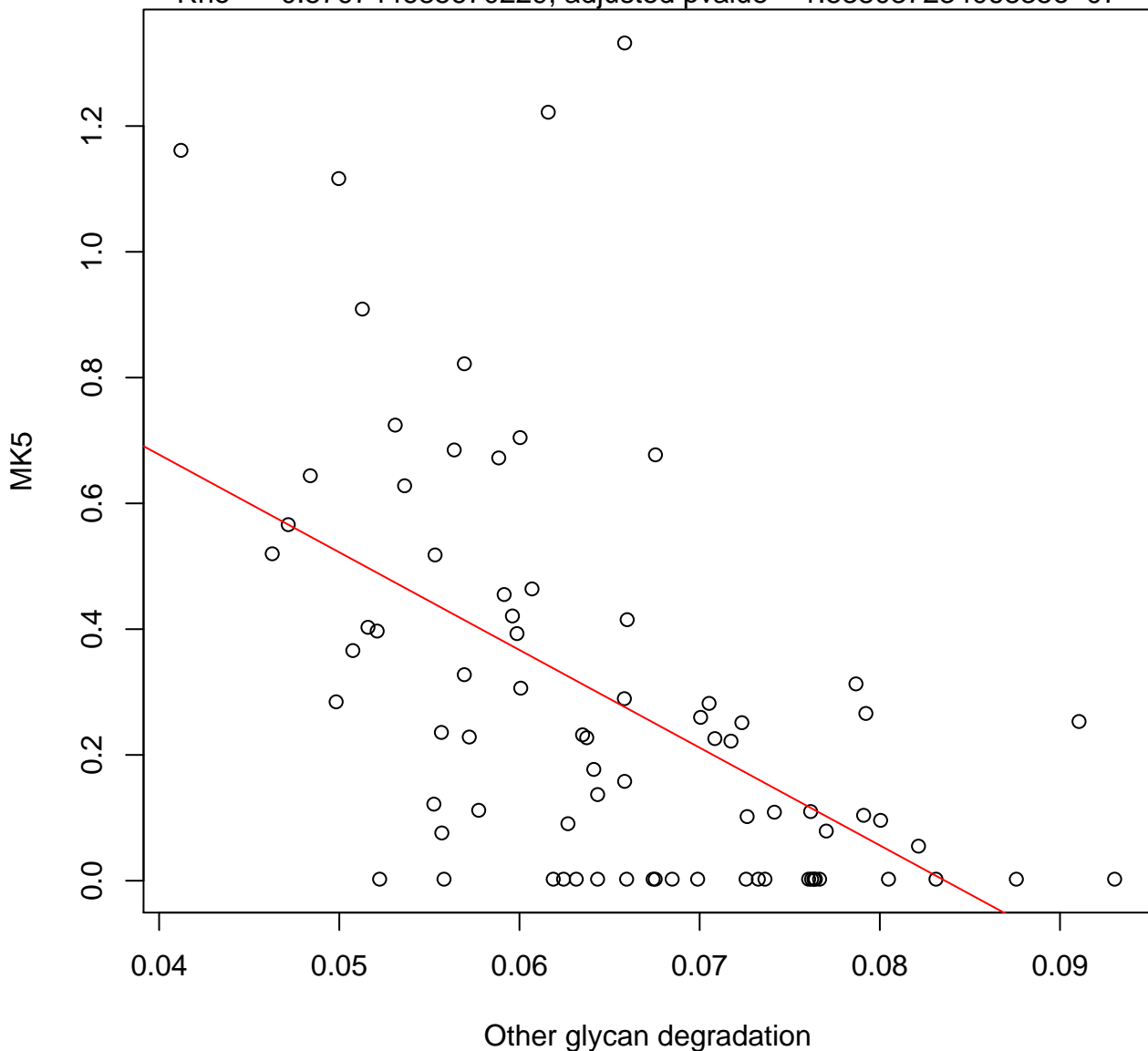
Timepoint 2 , MK5 ~ Lipid biosynthesis proteins

Rho = -0.24240186632082 , adjusted pvalue = 0.0589131610193796



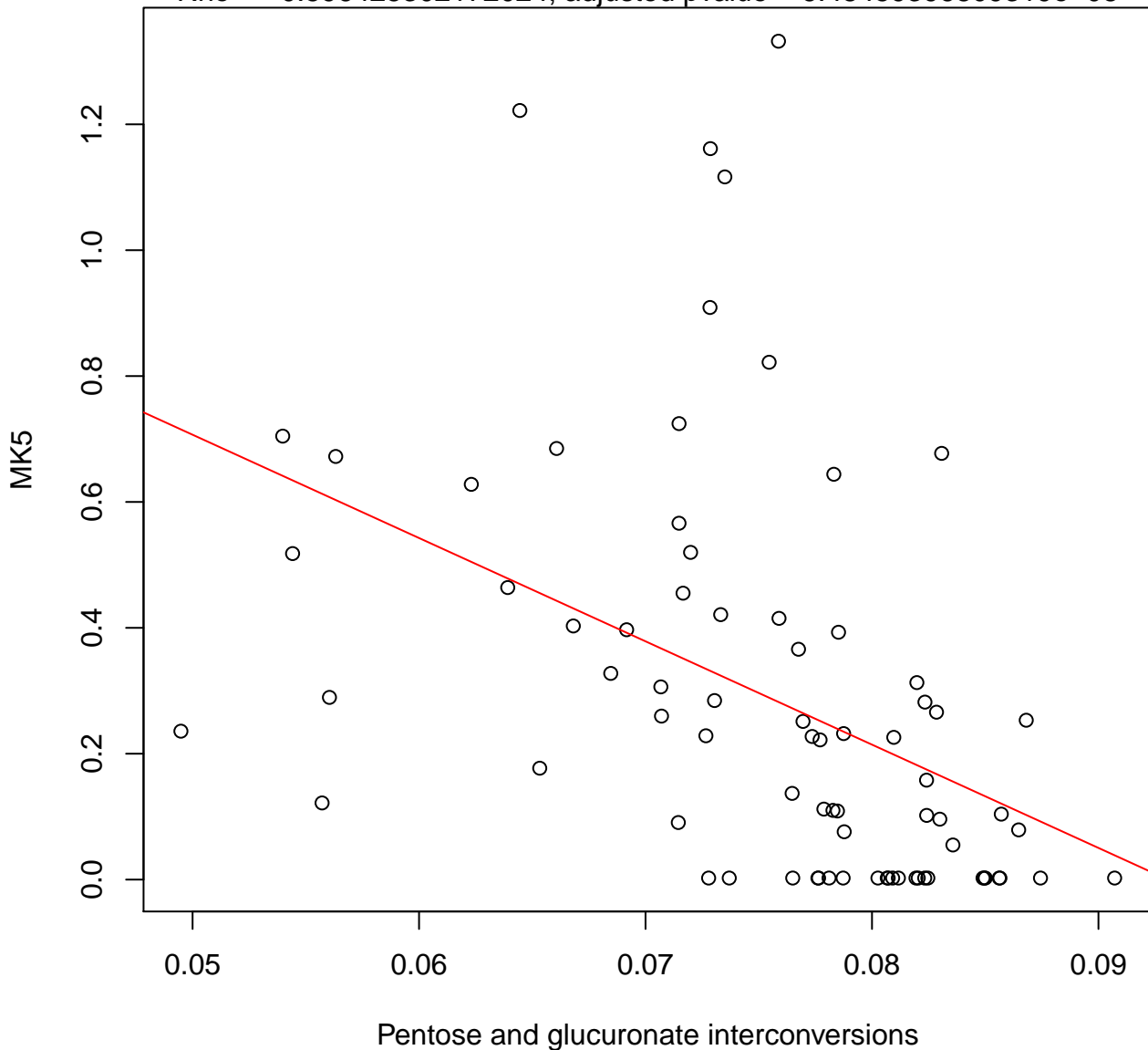
Timepoint 2 , MK5 ~ Other glycan degradation

Rho = -0.579744685670229 , adjusted pvalue = $1.53803723406835e-07$



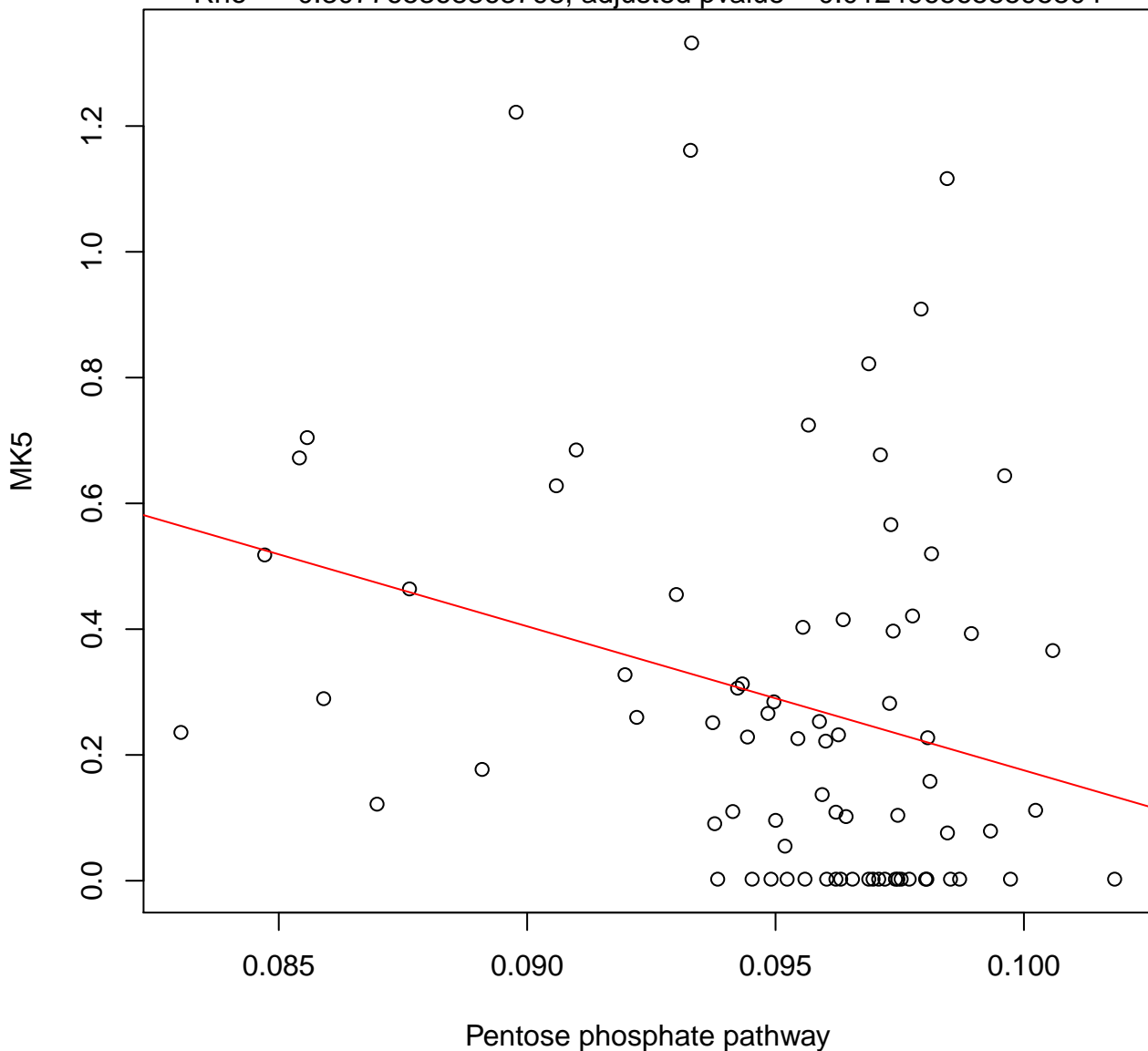
Timepoint 2, MK5 ~ Pentose and glucuronate interconversions

Rho = -0.596425302172024, adjusted pvalue = 6.48459396809319e-08

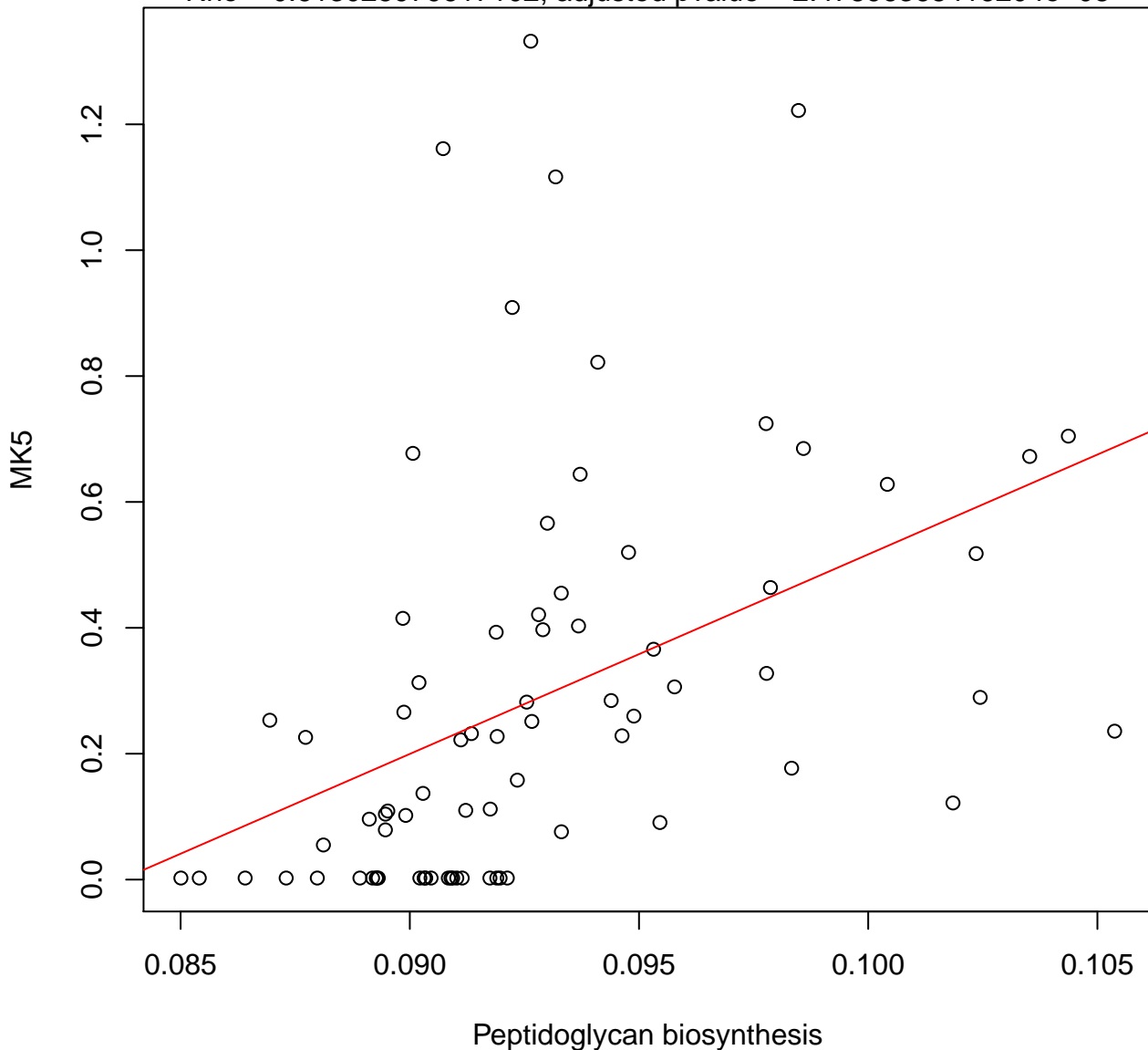


Timepoint 2 , MK5 ~ Pentose phosphate pathway

Rho = -0.307765368363798 , adjusted pvalue = 0.0124965655595804

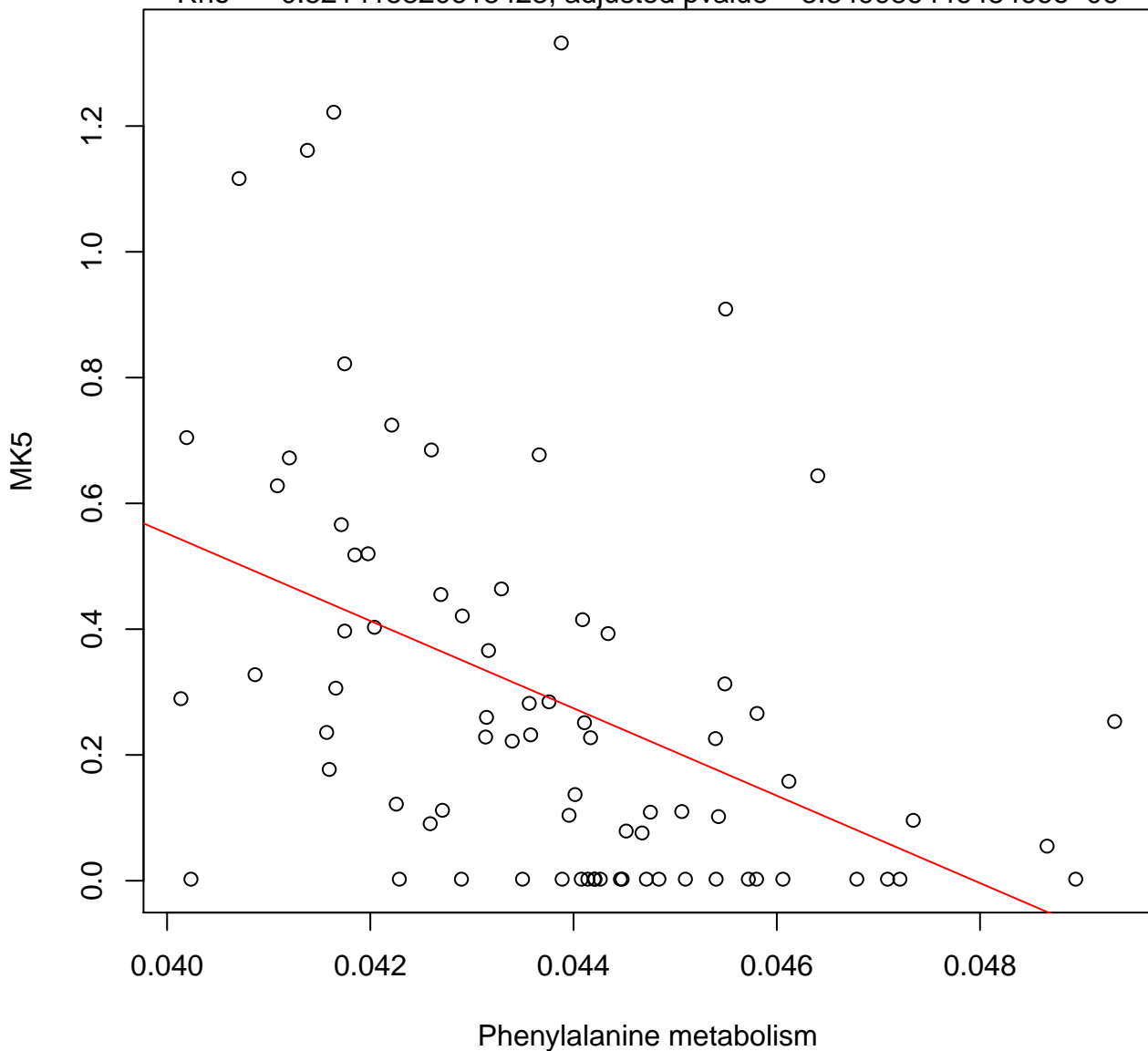


Rho = 0.613025979617102, adjusted pvalue = 2.47896368416204e-08



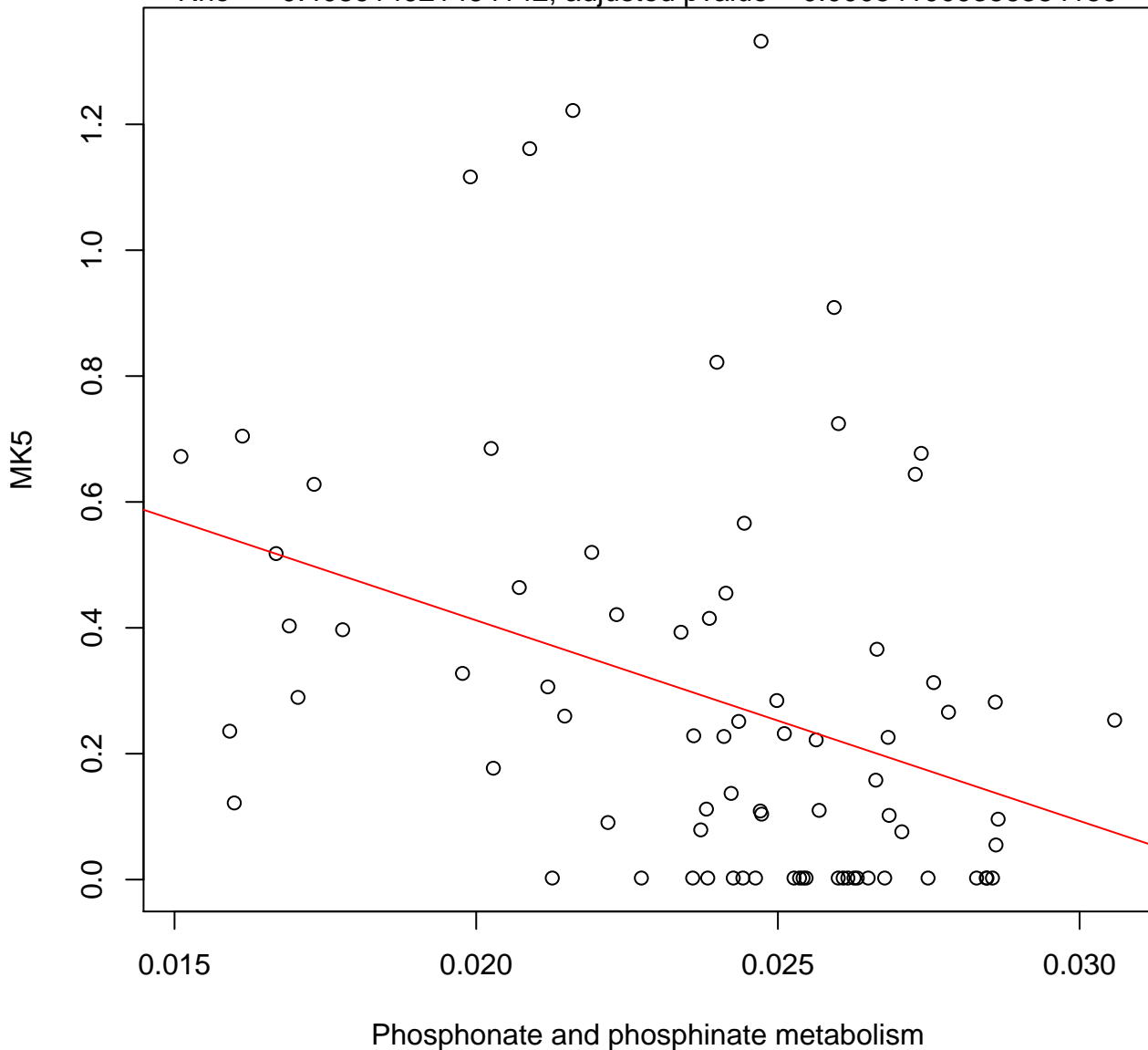
Timepoint 2 , MK5 ~ Phenylalanine metabolism

Rho = -0.521415820618423 , adjusted pvalue = $3.84998644648466e-06$



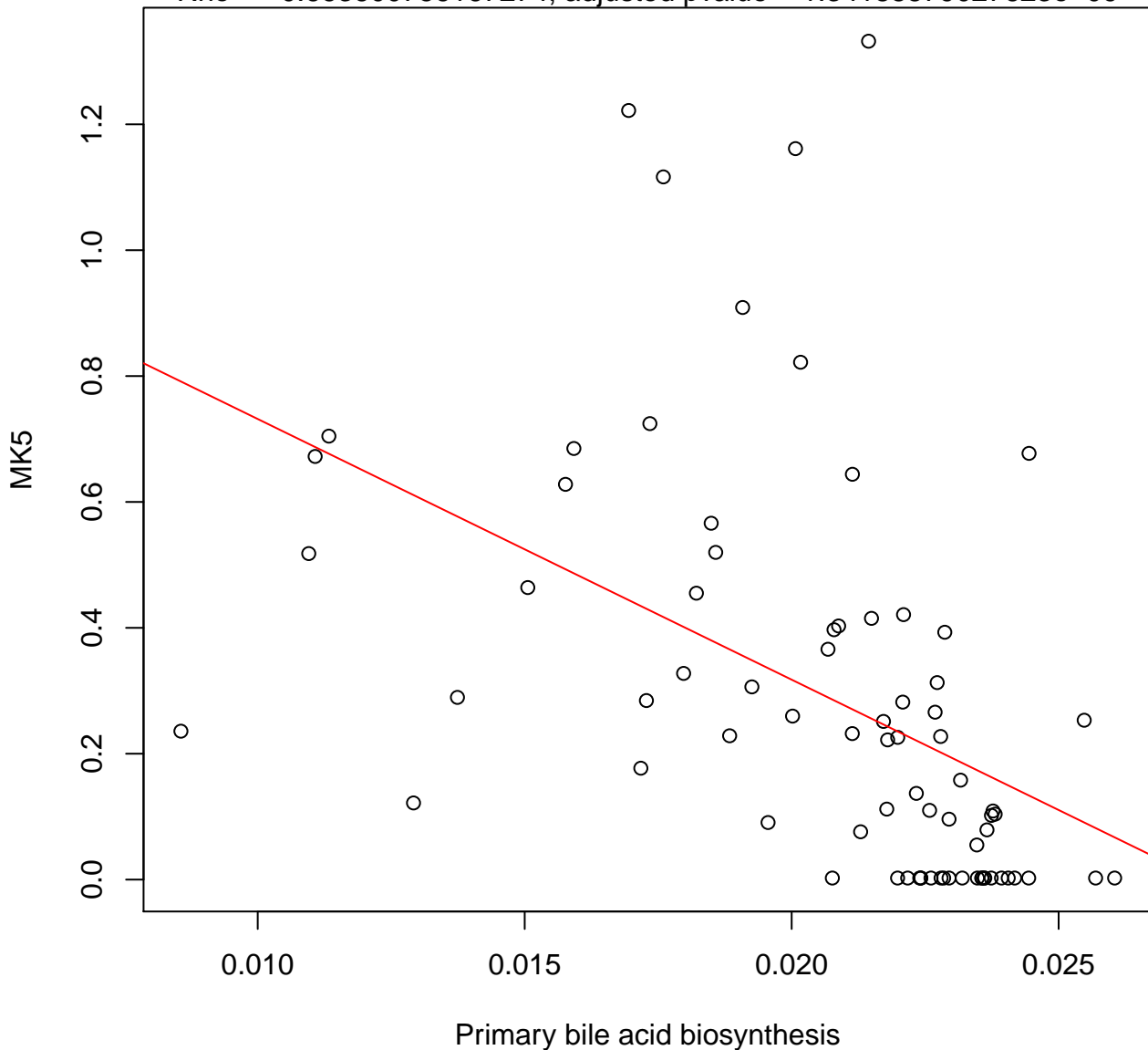
Timepoint 2 , MK5 ~ Phosphonate and phosphinate metabolism

Rho = -0.408914921464142 , adjusted pvalue = 0.000541009356384159



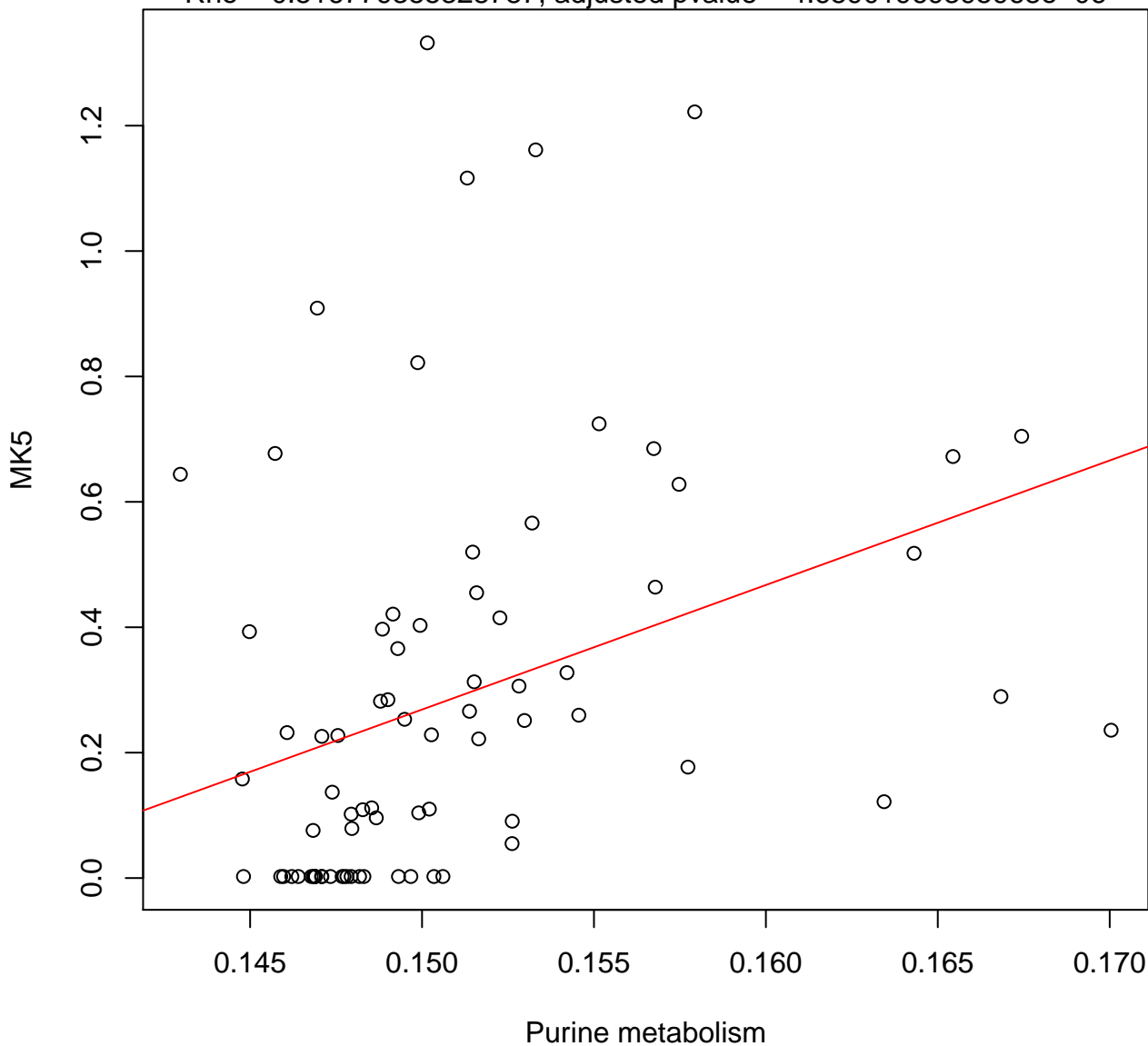
Timepoint 2 , MK5 ~ Primary bile acid biosynthesis

Rho = -0.663600756167274 , adjusted pvalue = $1.34188879027623e-09$



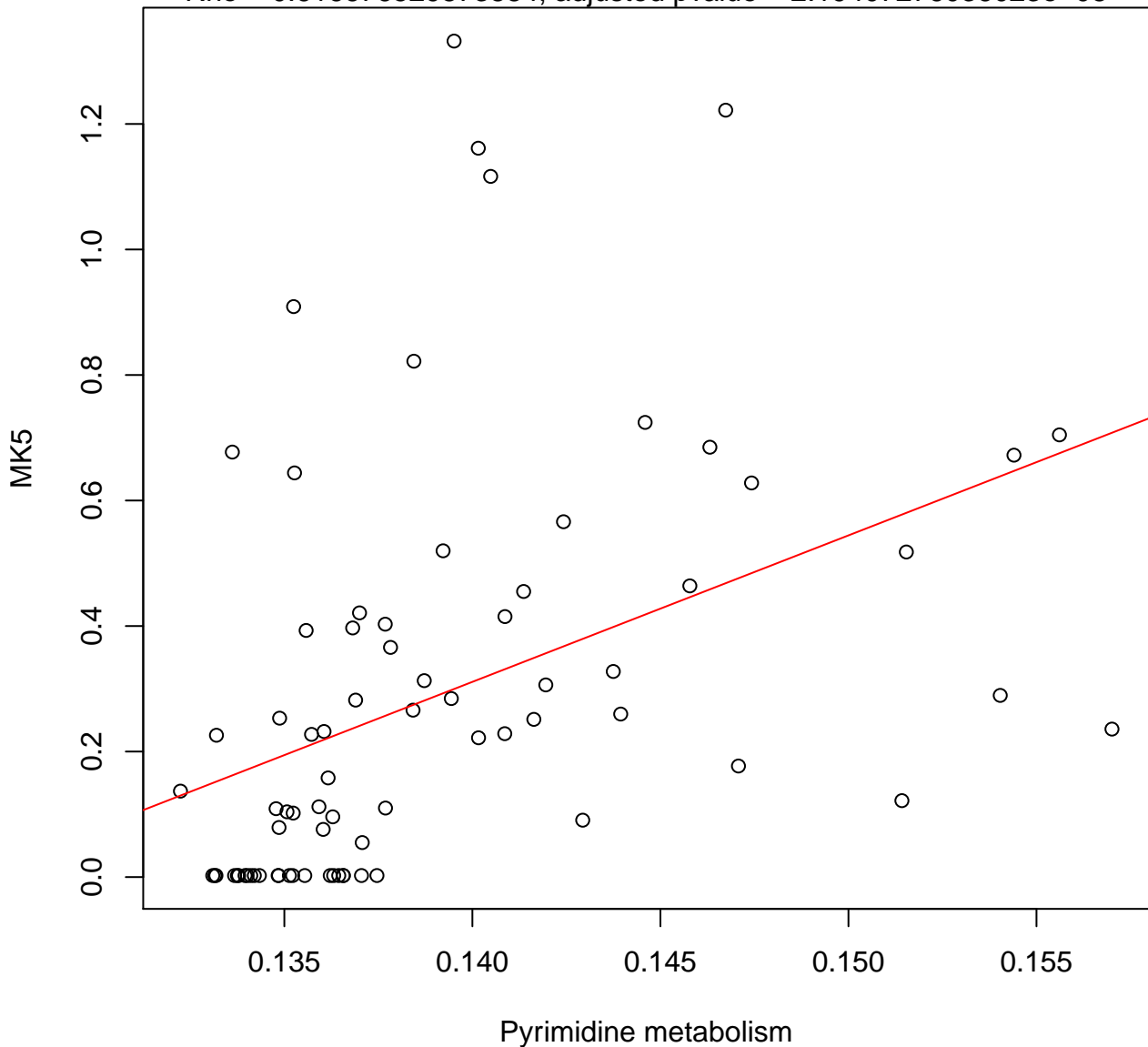
Timepoint 2 , MK5 ~ Purine metabolism

Rho = 0.516779355328787, adjusted pvalue = 4.65901969395968e-06



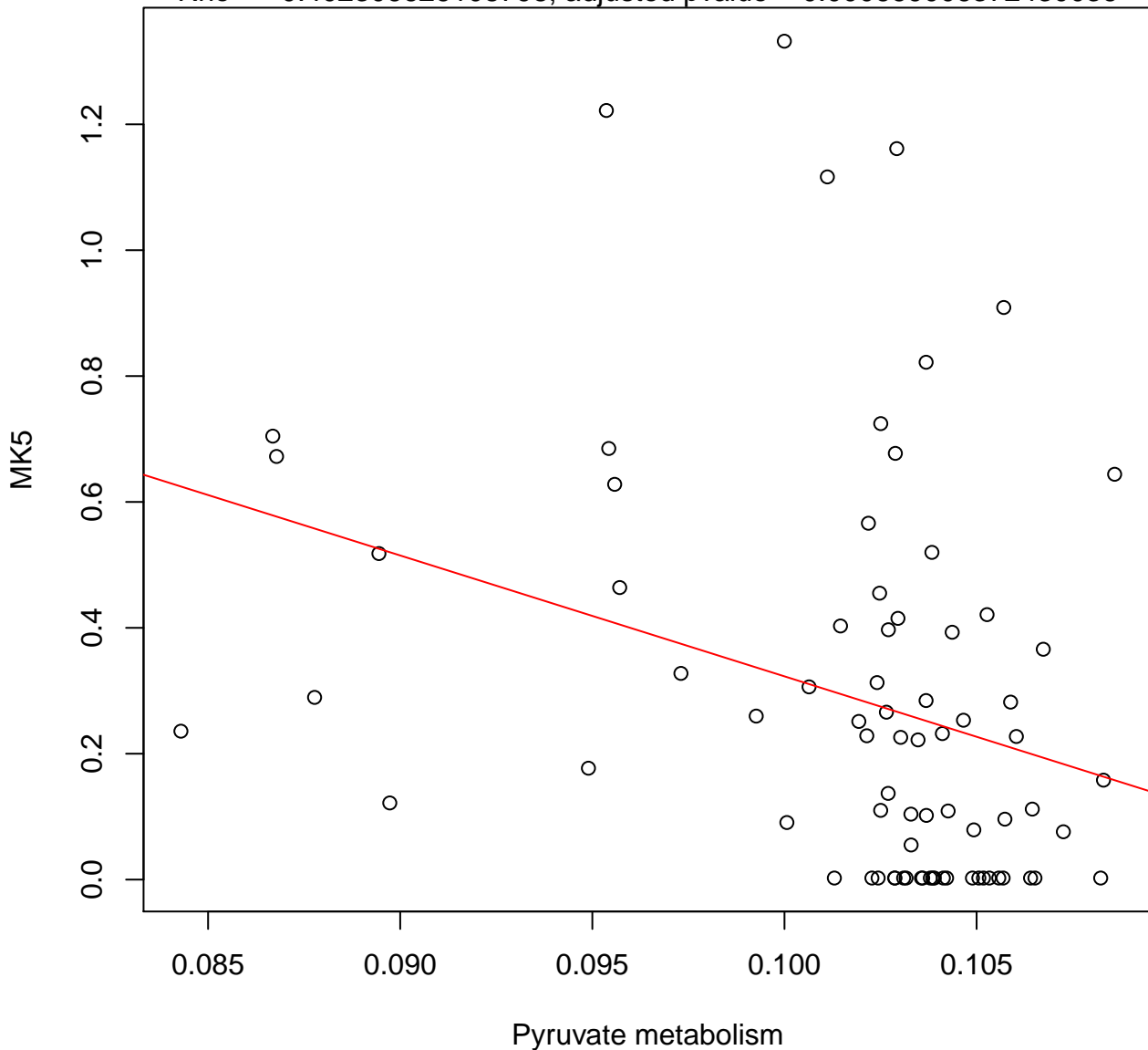
Timepoint 2 , MK5 ~ Pyrimidine metabolism

Rho = 0.616676529873884, adjusted pvalue = 2.19407276036023e-08



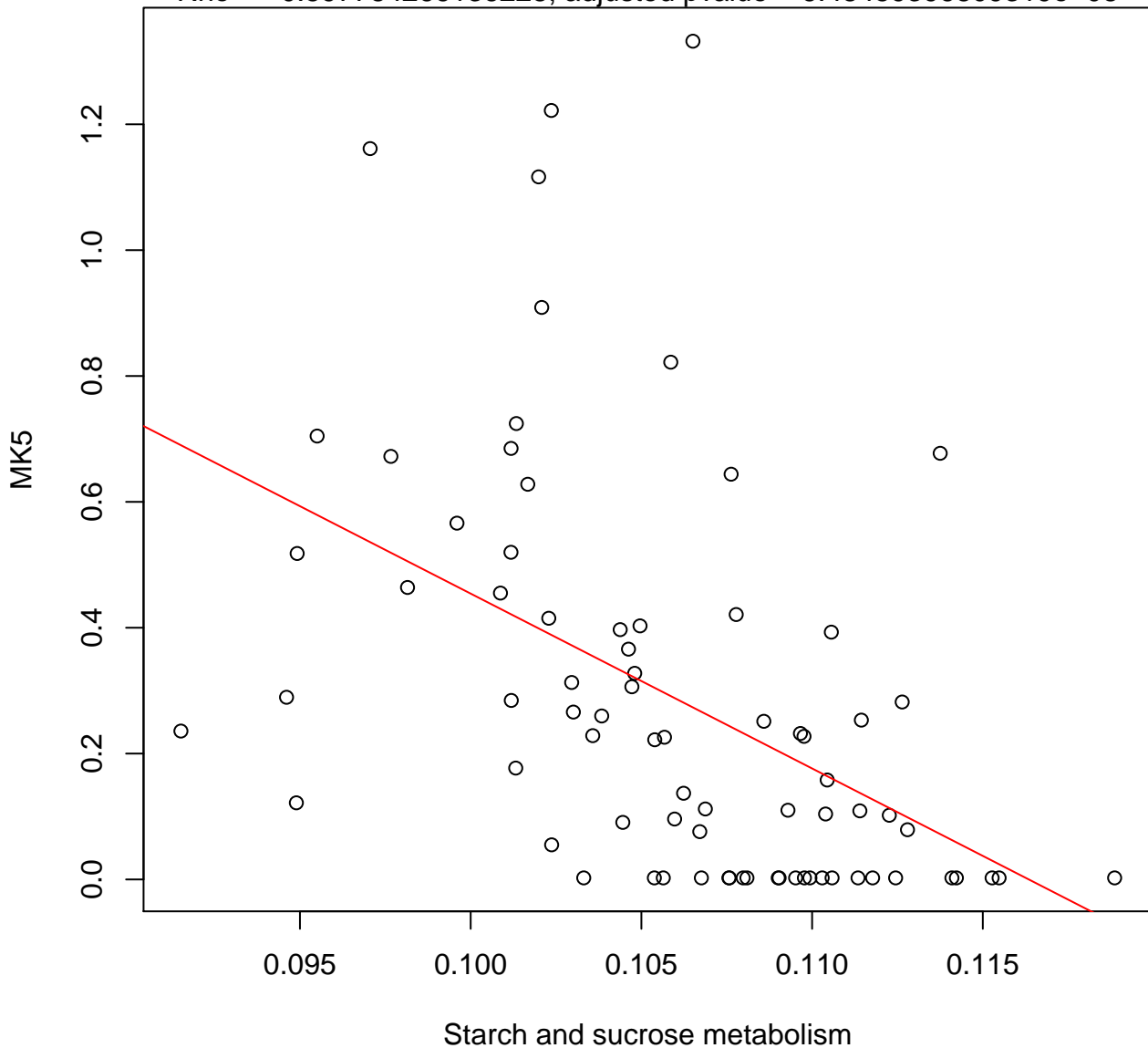
Timepoint 2 , MK5 ~ Pyruvate metabolism

Rho = -0.402306626108798 , adjusted pvalue = 0.000669006372430036



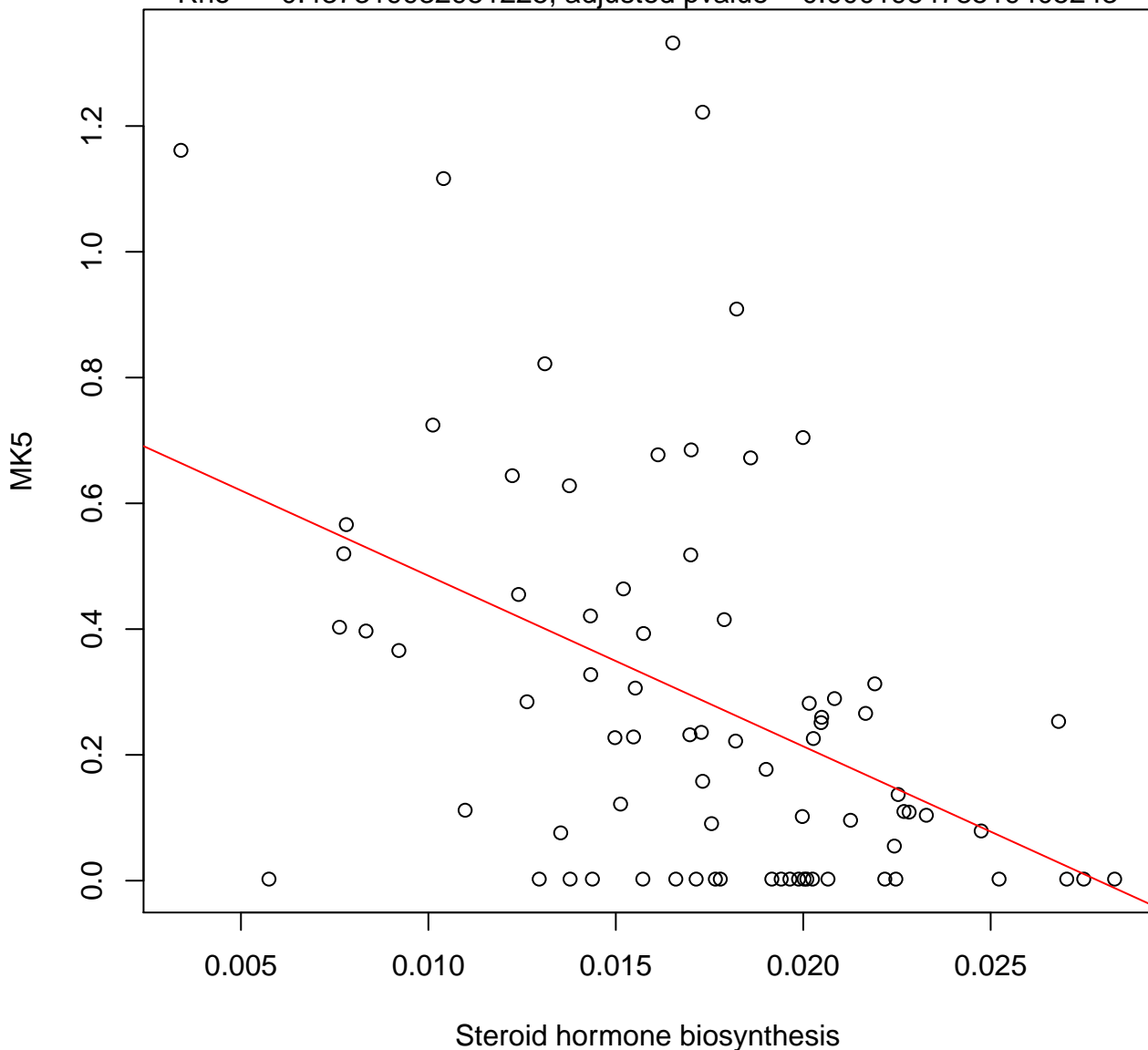
Timepoint 2 , MK5 ~ Starch and sucrose metabolism

Rho = -0.597784266136228 , adjusted pvalue = $6.48459396809319e-08$



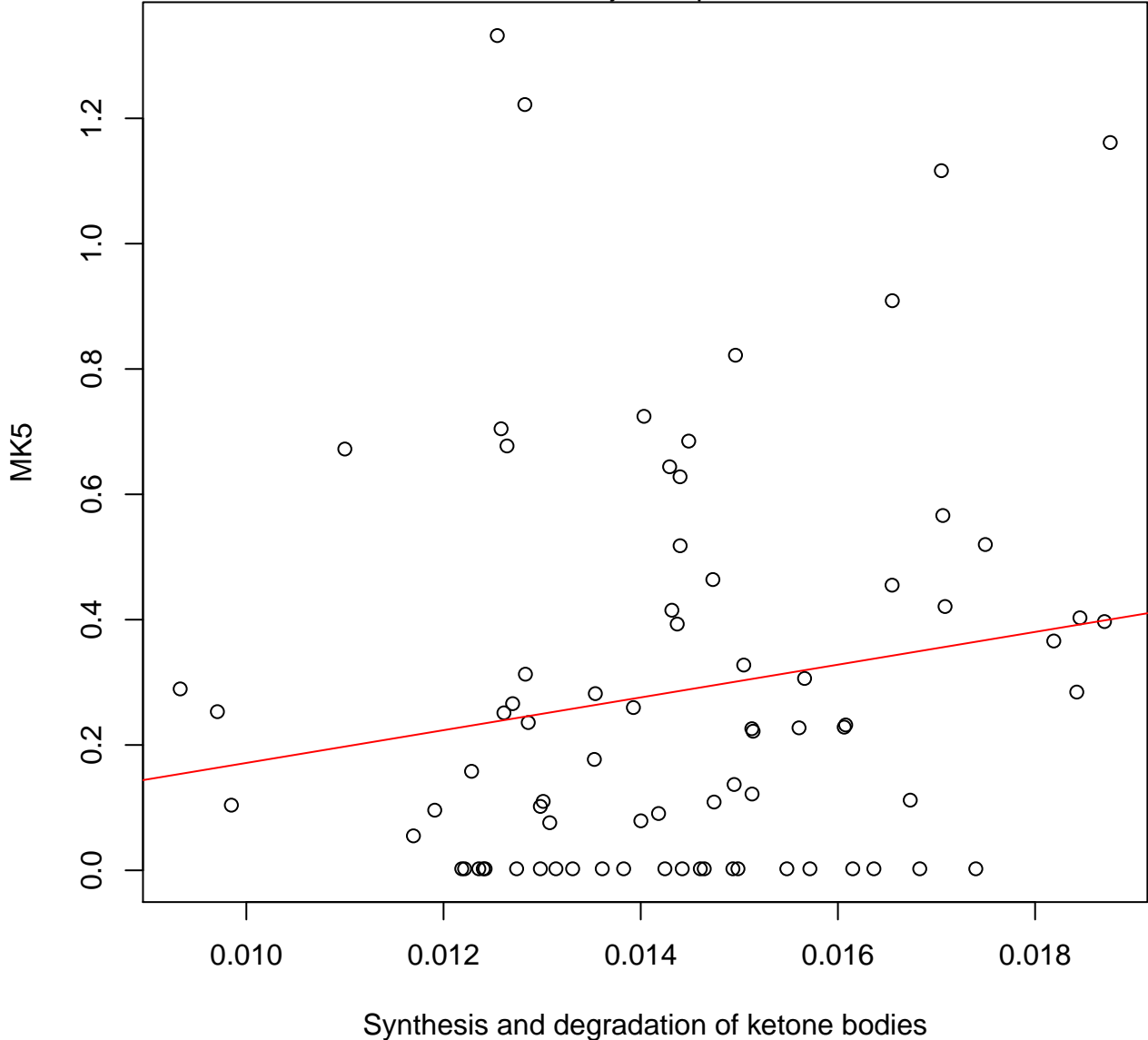
Timepoint 2 , MK5 ~ Steroid hormone biosynthesis

Rho = -0.437319932951225 , adjusted pvalue = 0.000195478519405243



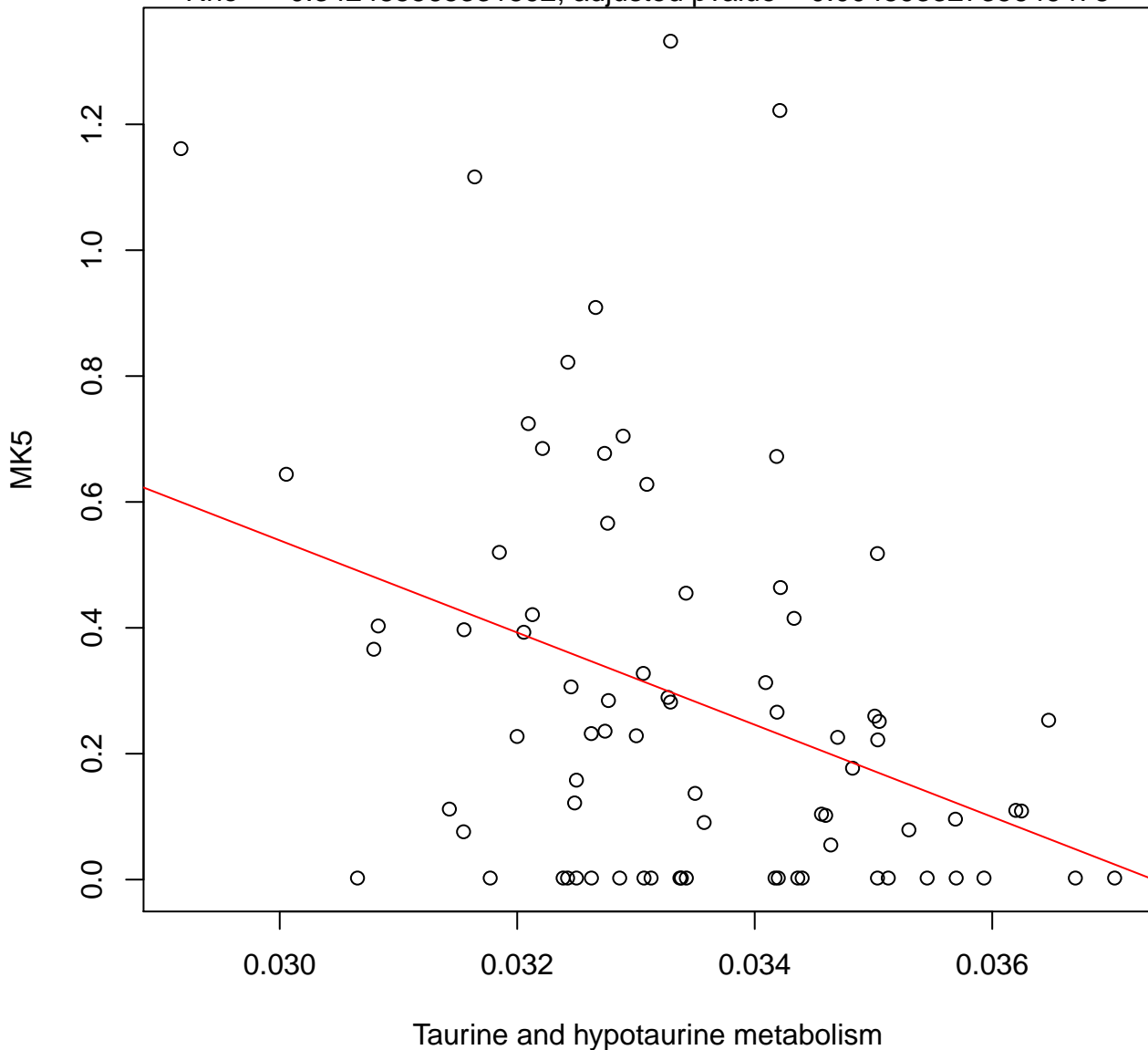
Timepoint 2 , MK5 ~ Synthesis and degradation of ketone bodies

Rho = 0.172535130749402, adjusted pvalue = 0.202029743658058



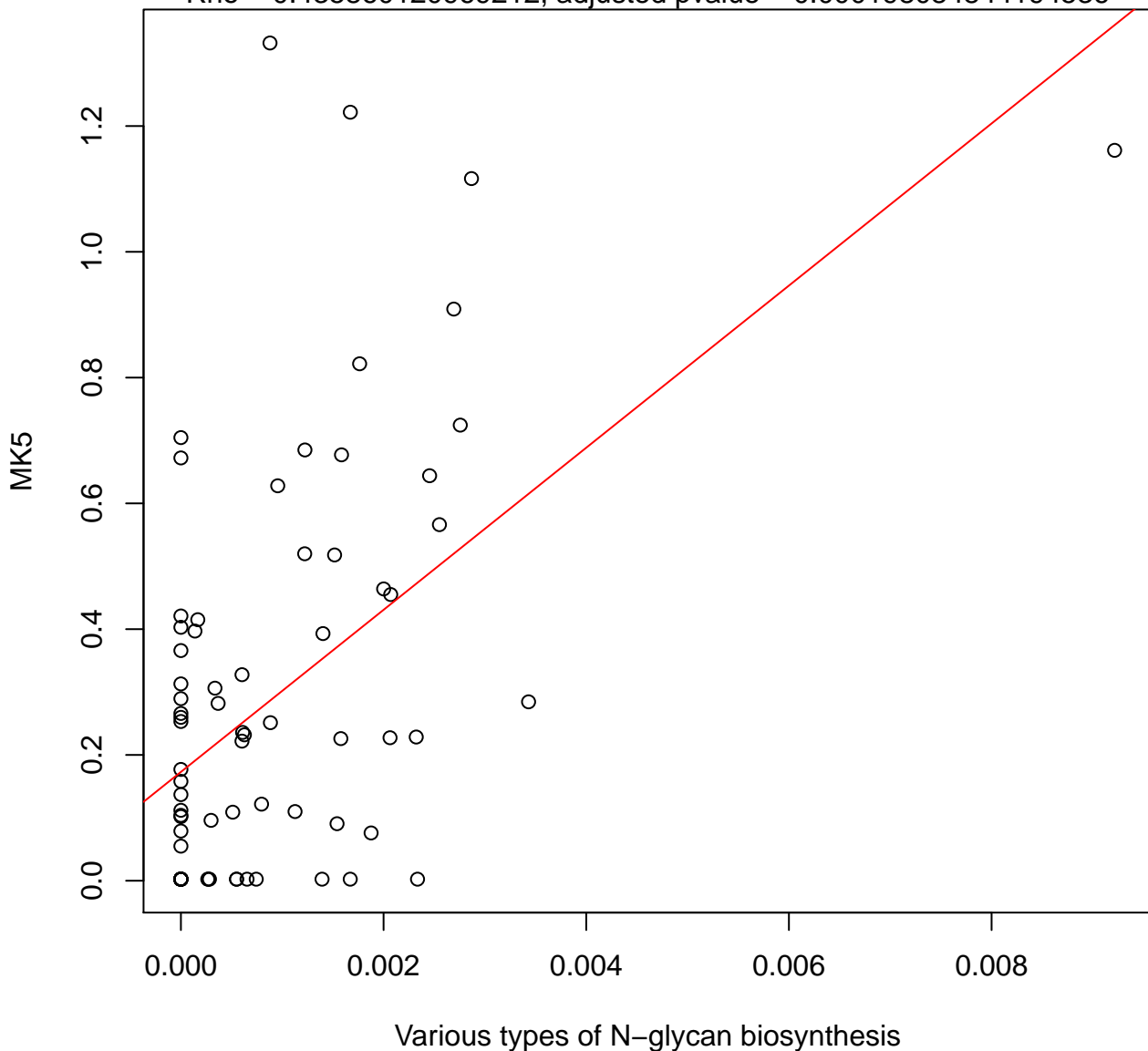
Timepoint 2 , MK5 ~ Taurine and hypotaurine metabolism

Rho = -0.342485565331592 , adjusted pvalue = 0.00459332735646478



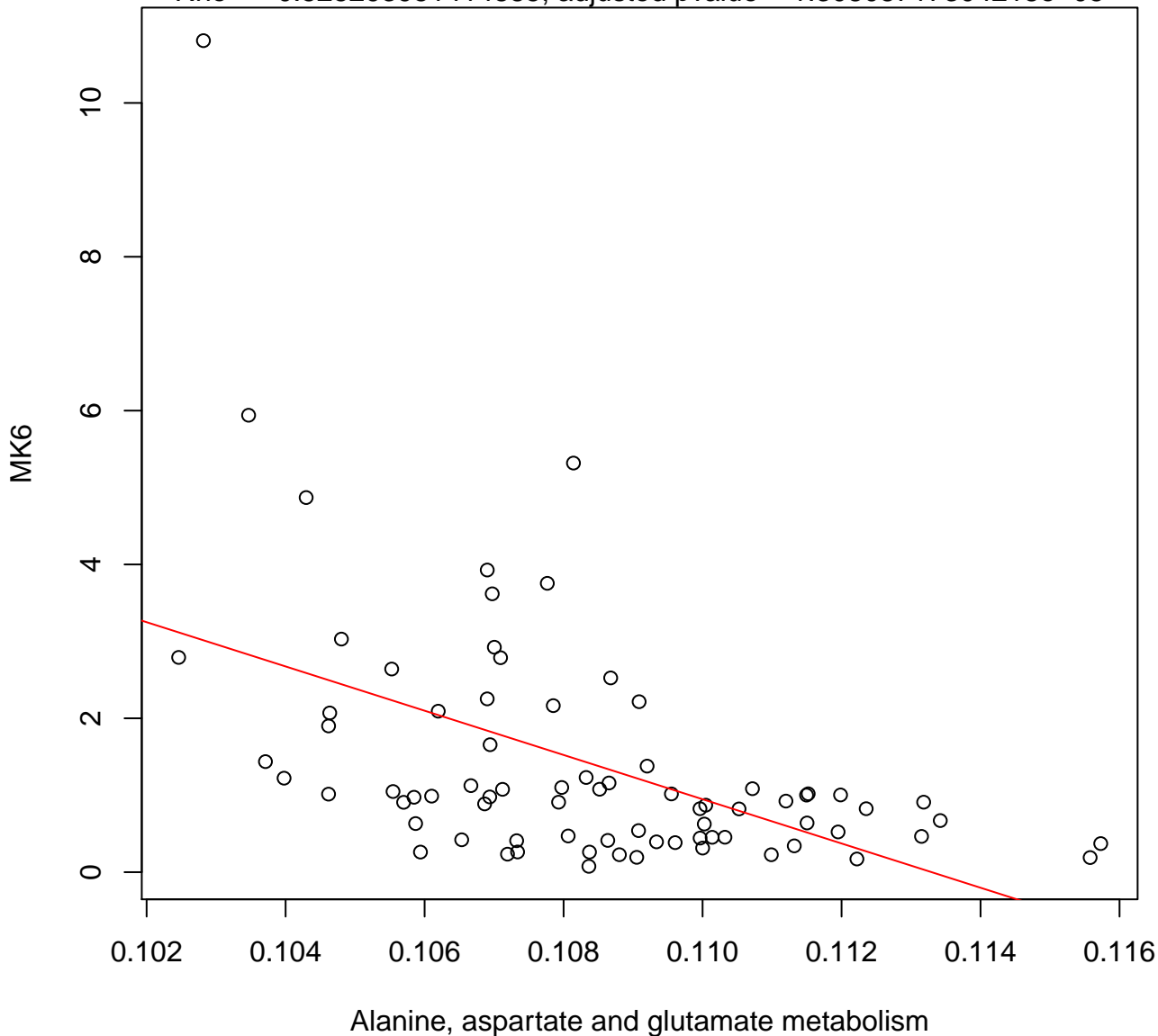
Timepoint 2 , MK5 ~ Various types of N-glycan biosynthesis

Rho = 0.435860120969212, adjusted pvalue = 0.000198084844194536



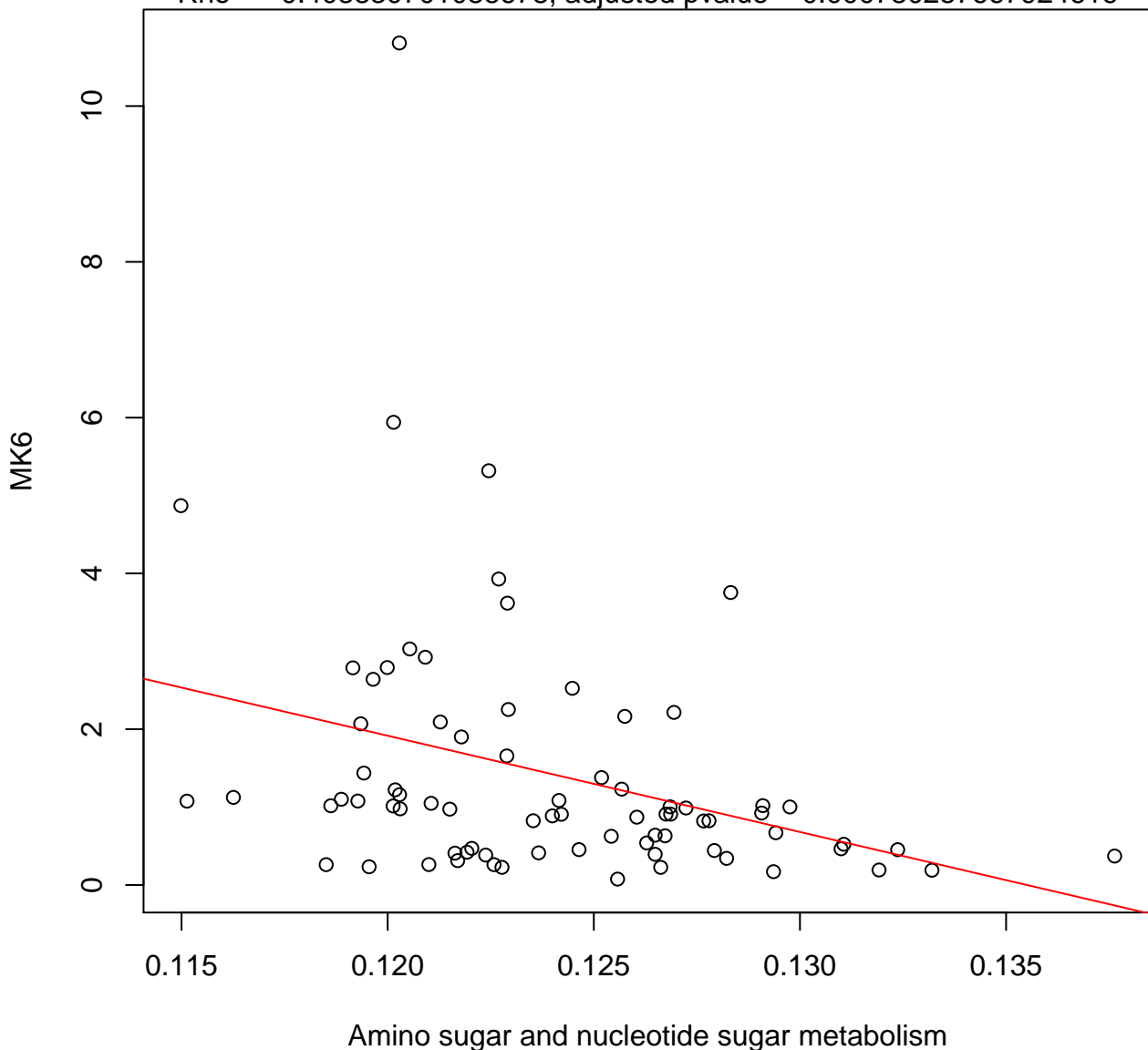
Timepoint 2 , MK6 ~ Alanine, aspartate and glutamate metabolism

Rho = -0.525293951414885 , adjusted pvalue = $1.30808717304218 \times 10^{-5}$



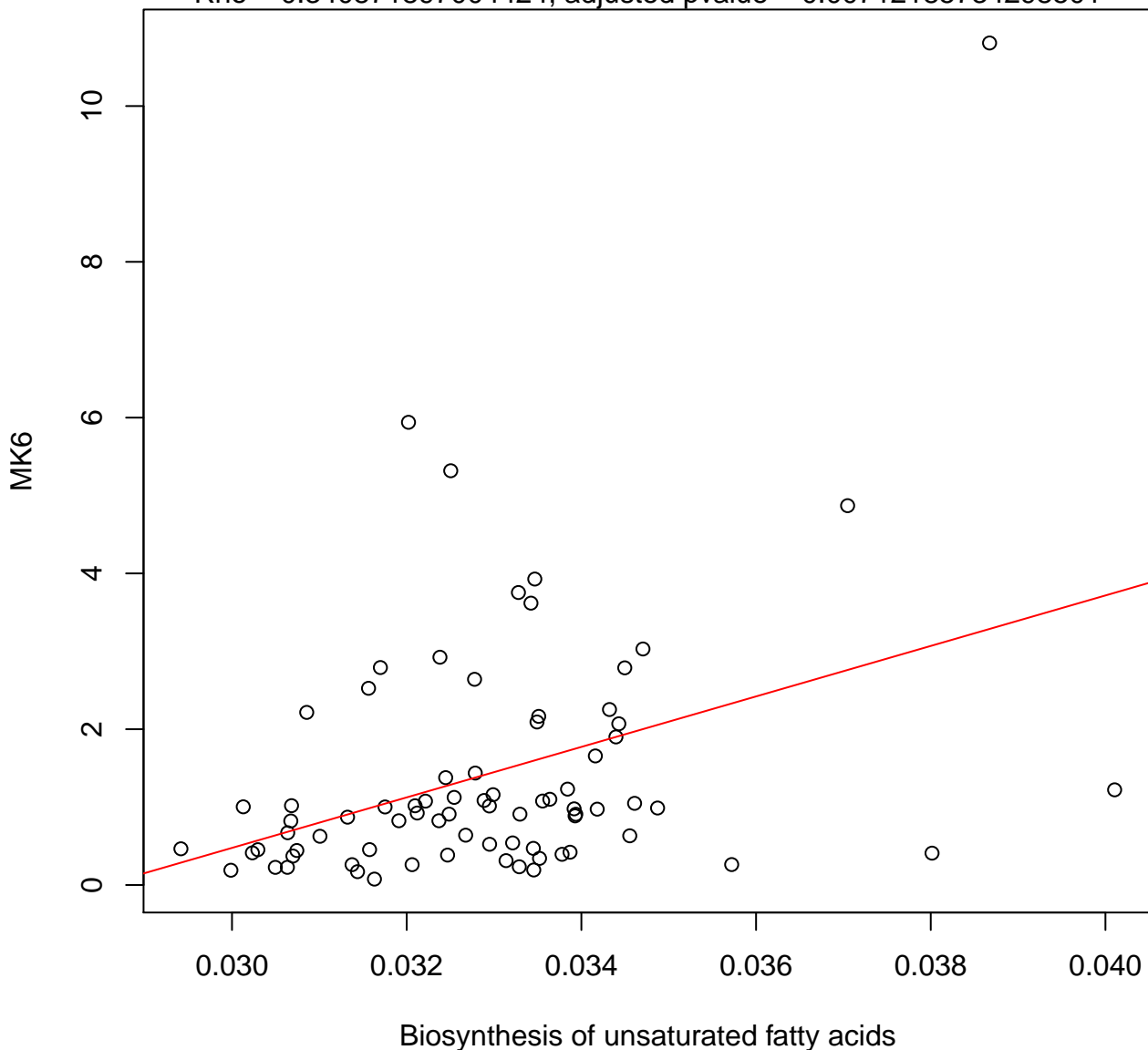
Timepoint 2 , MK6 ~ Amino sugar and nucleotide sugar metabolism

Rho = -0.408830701088678 , adjusted pvalue = 0.000780257667924616



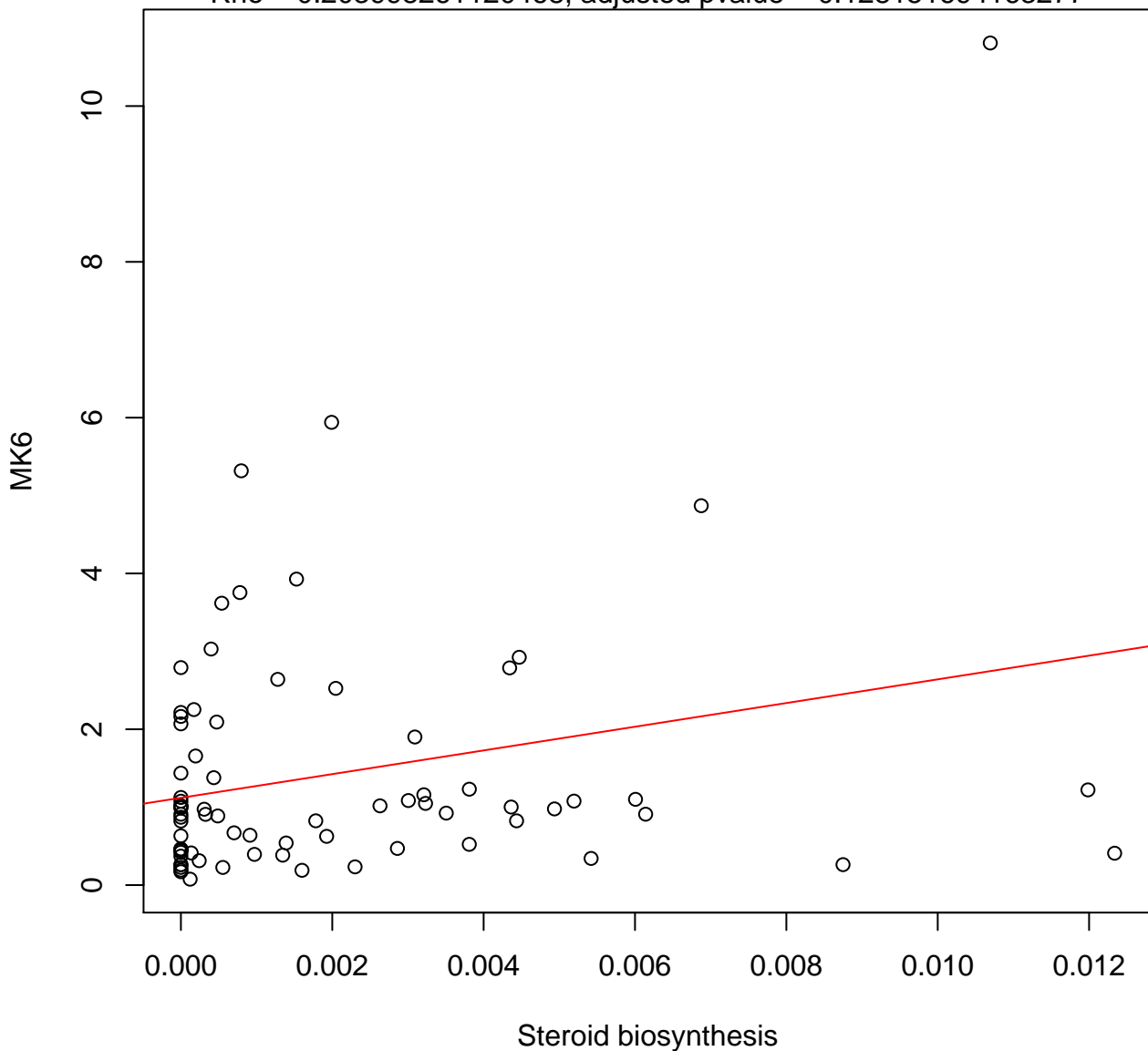
Timepoint 2 , MK6 ~ Biosynthesis of unsaturated fatty acids

Rho = 0.340871897004424, adjusted pvalue = 0.00712185734298501



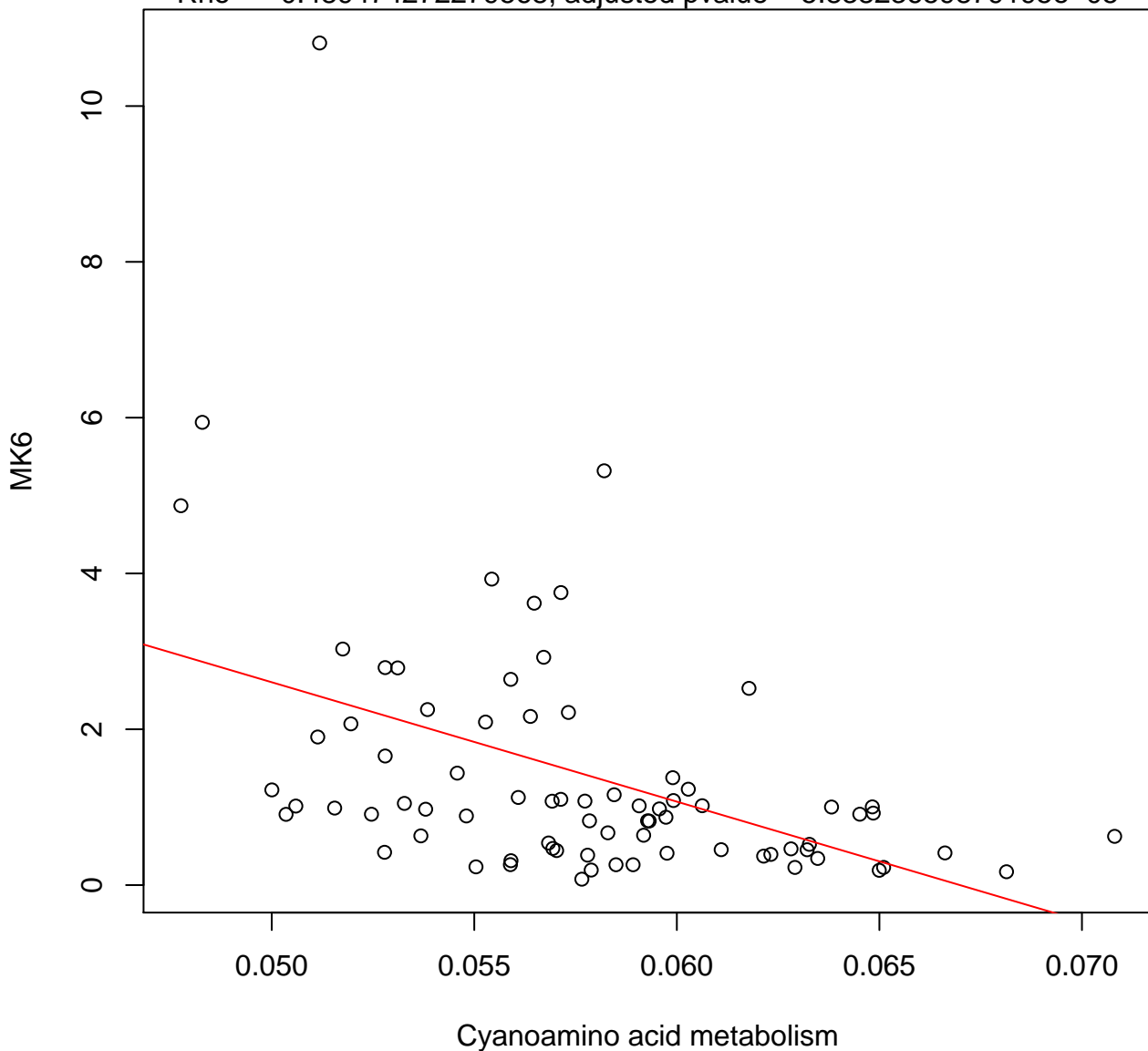
Timepoint 2 , MK6 ~ Steroid biosynthesis

Rho = 0.203998261120468, adjusted pvalue = 0.128151694163277



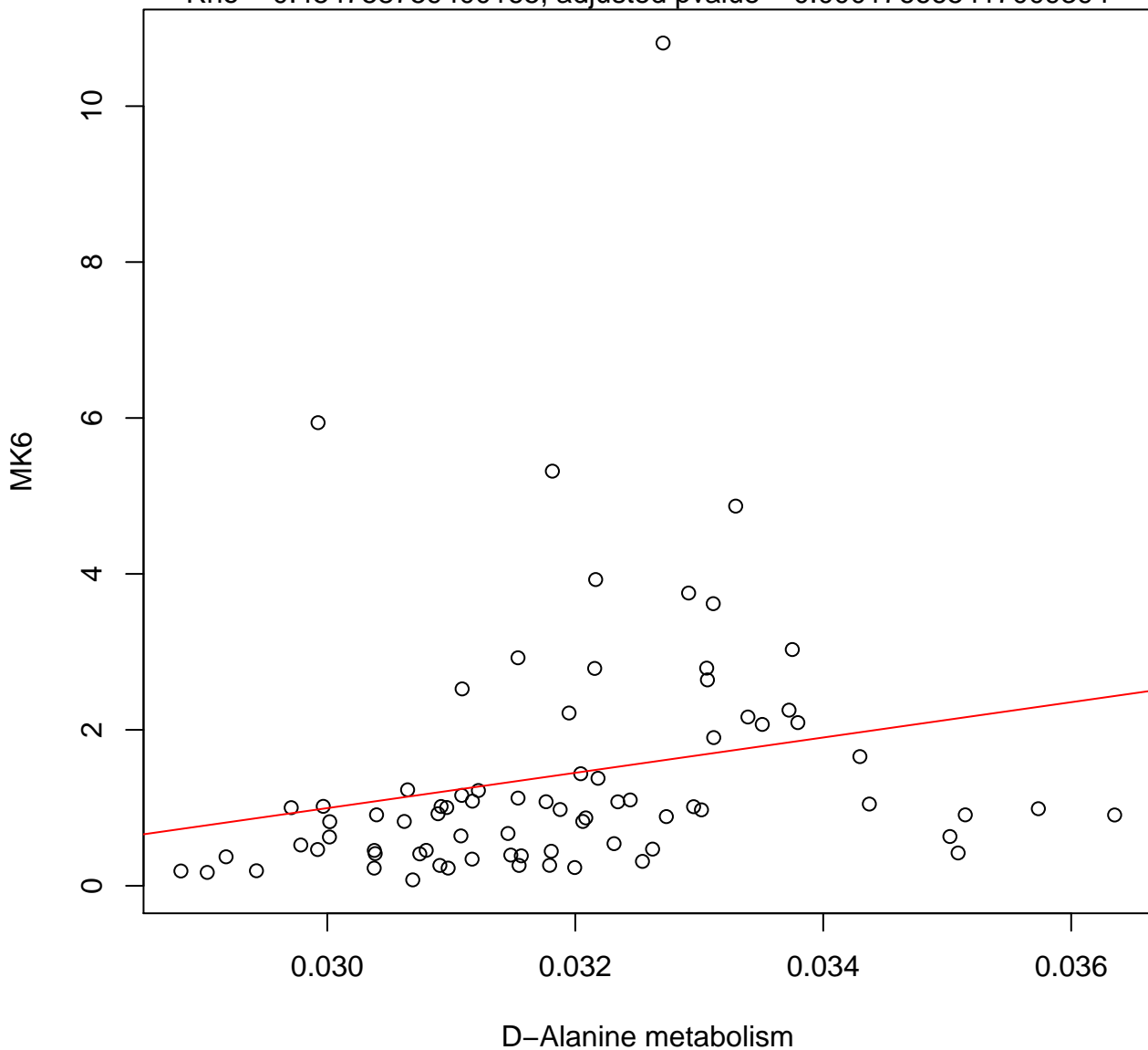
Timepoint 2 , MK6 ~ Cyanoamino acid metabolism

Rho = -0.489474272279568 , adjusted pvalue = $5.83823659879195e-05$



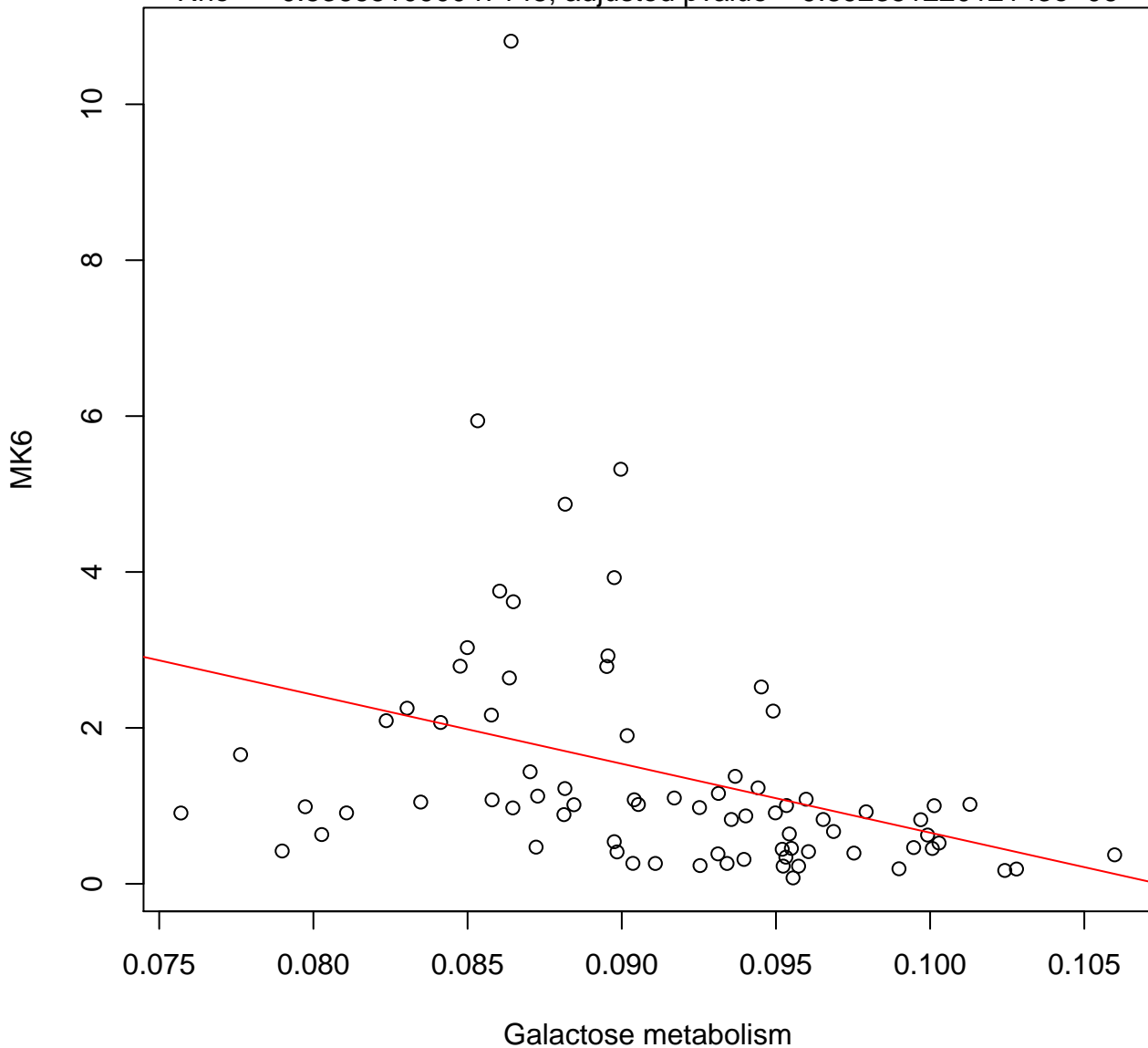
Timepoint 2 , MK6 ~ D-Alanine metabolism

Rho = 0.454758759400165, adjusted pvalue = 0.000176665417009394



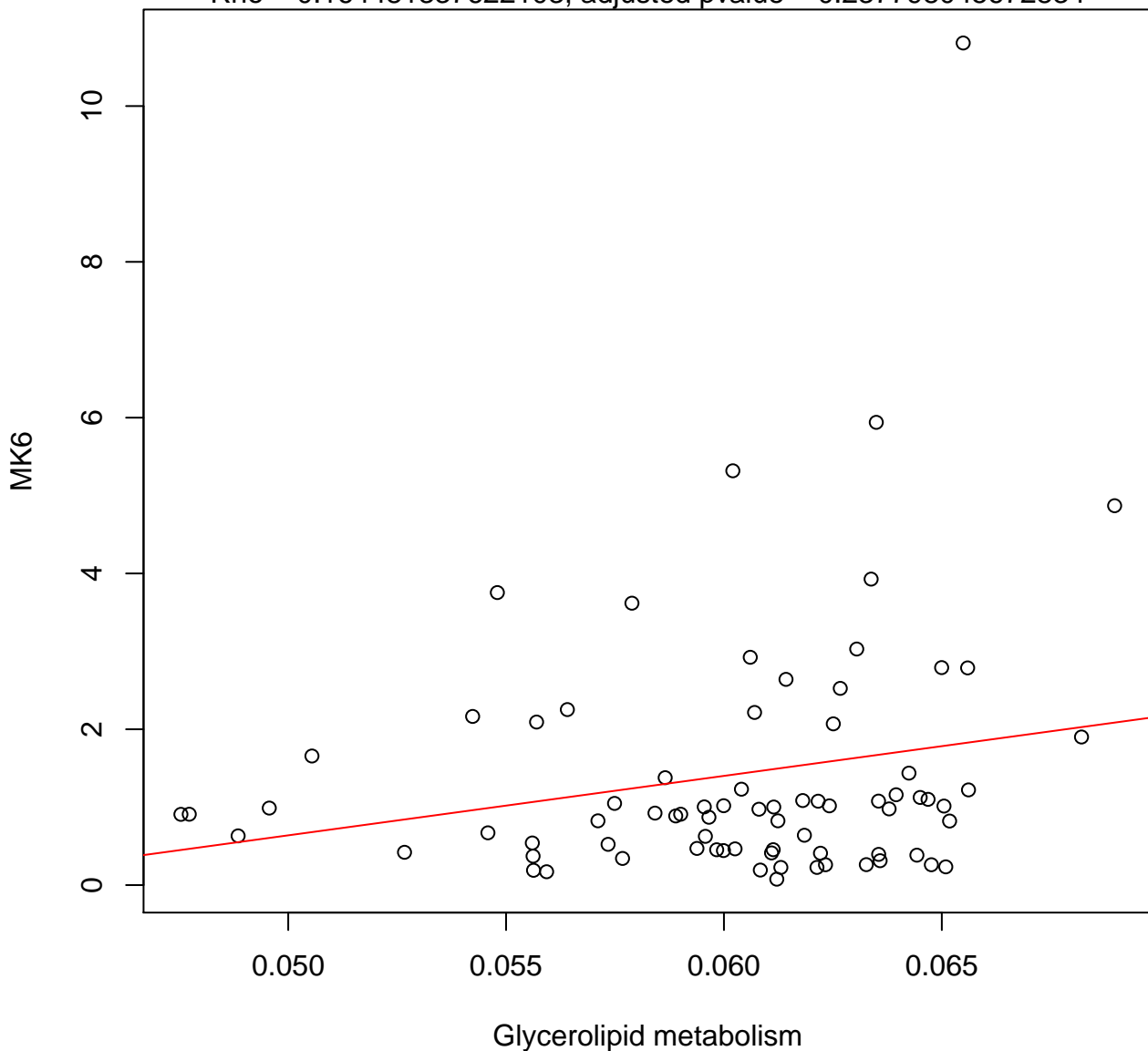
Timepoint 2 , MK6 ~ Galactose metabolism

Rho = -0.536651090047148 , adjusted pvalue = $9.89235122012143e-06$



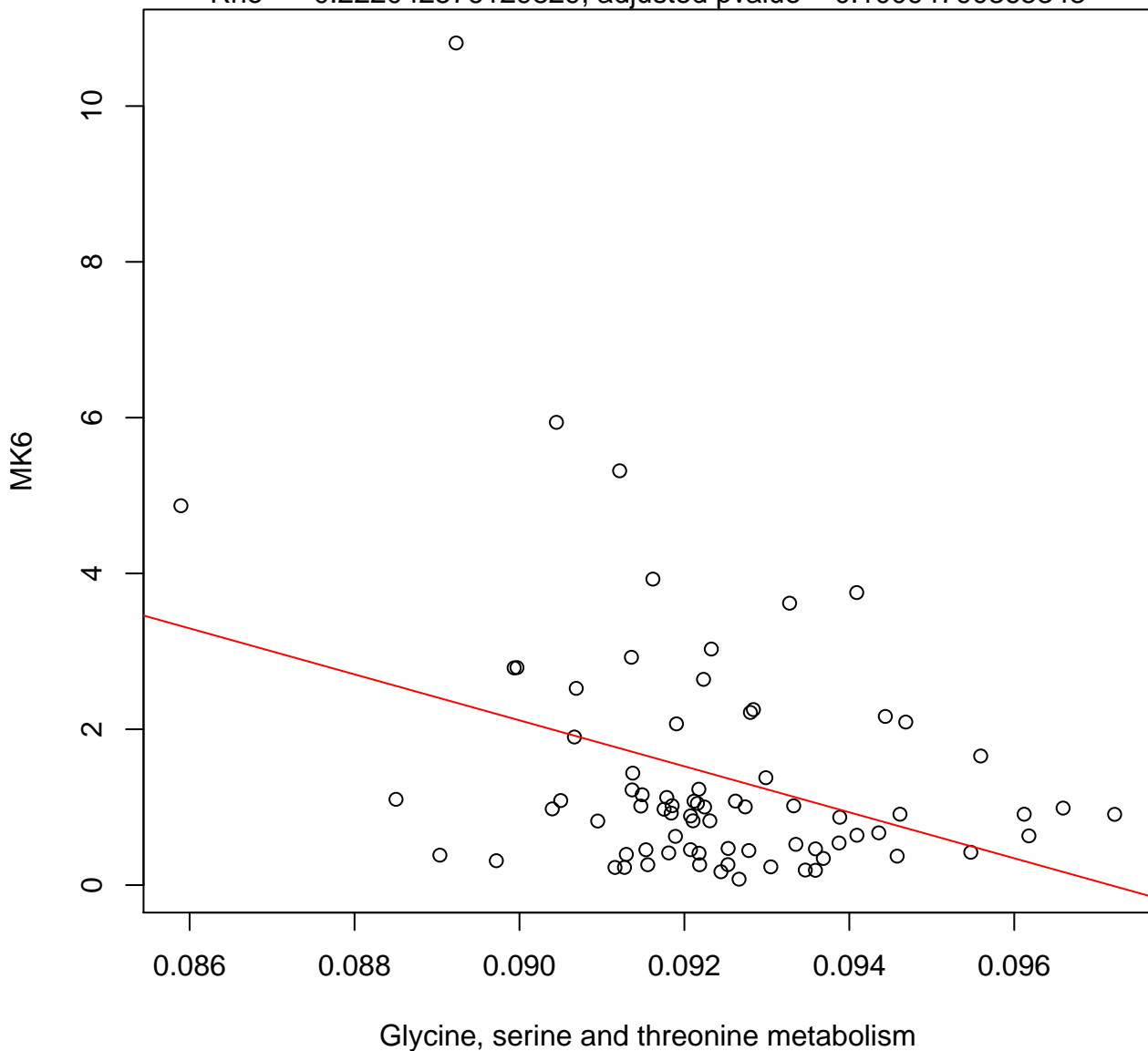
Timepoint 2 , MK6 ~ Glycerolipid metabolism

Rho = 0.164481337622103, adjusted pvalue = 0.237798045672834



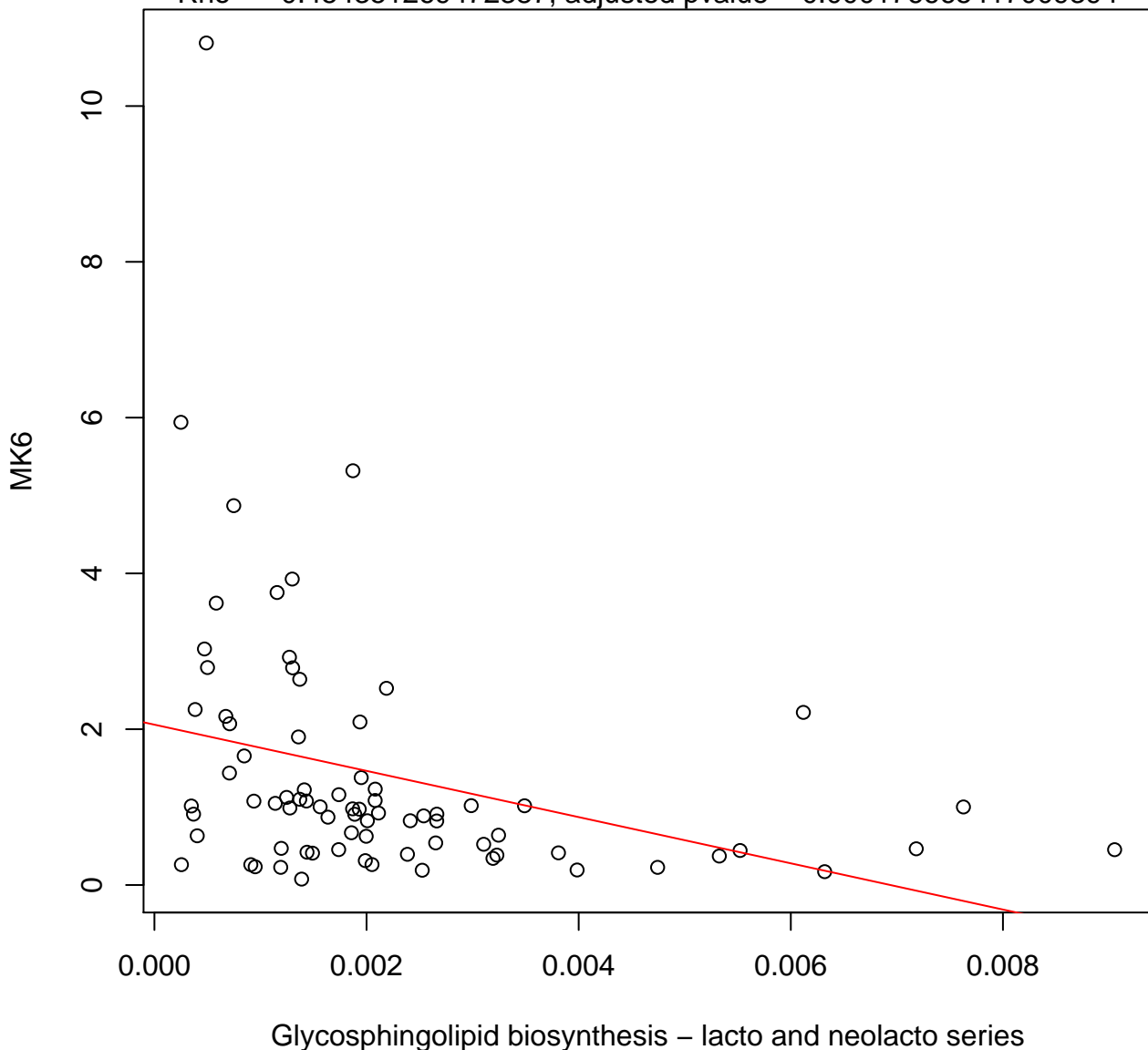
Timepoint 2 , MK6 ~ Glycine, serine and threonine metabolism

Rho = -0.222042576129829 , adjusted pvalue = 0.10094790365343



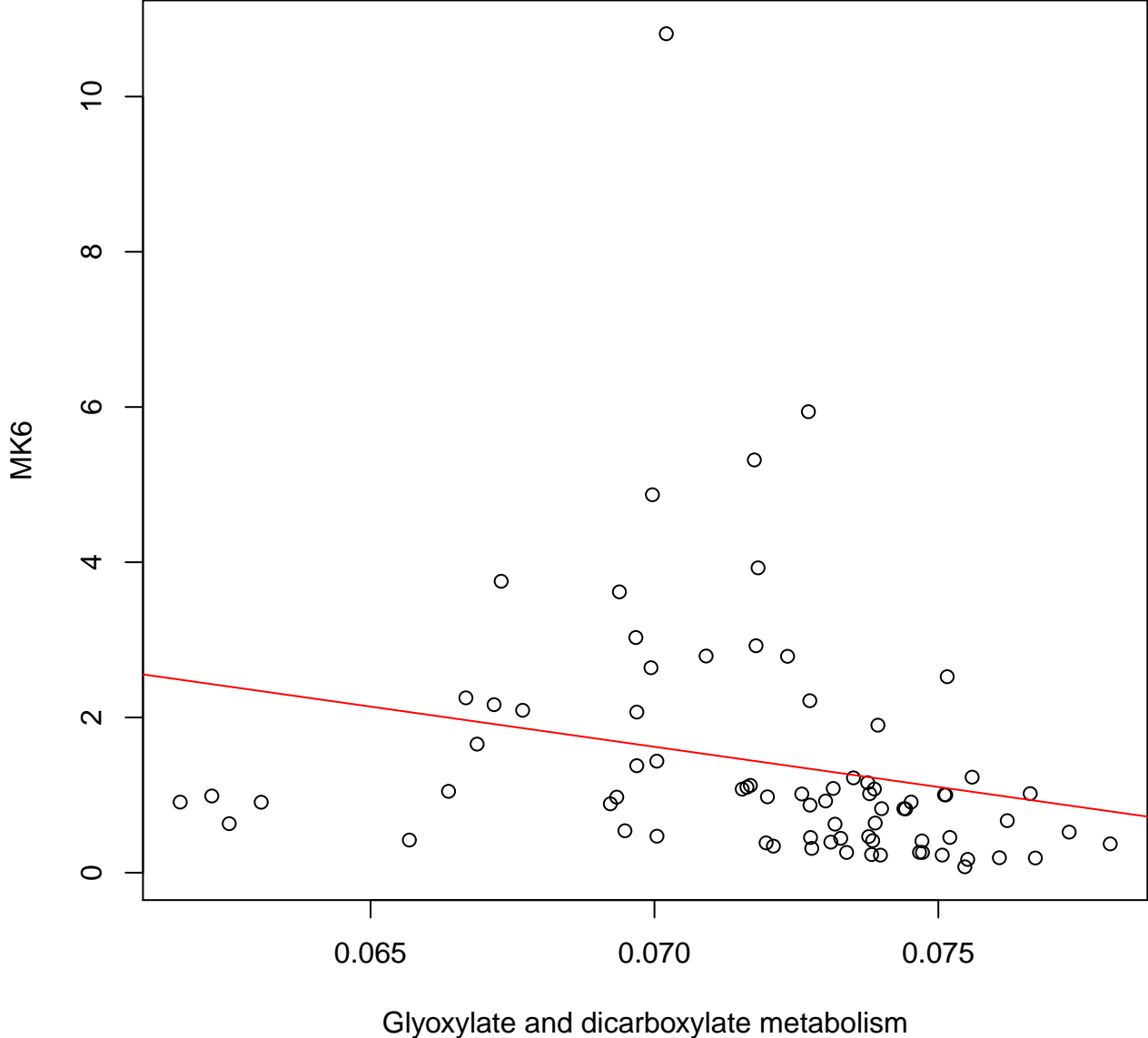
Timepoint 2 , MK6 ~ Glycosphingolipid biosynthesis – lacto and neolacto s

Rho = -0.454351269472387 , adjusted pvalue = 0.000176665417009394



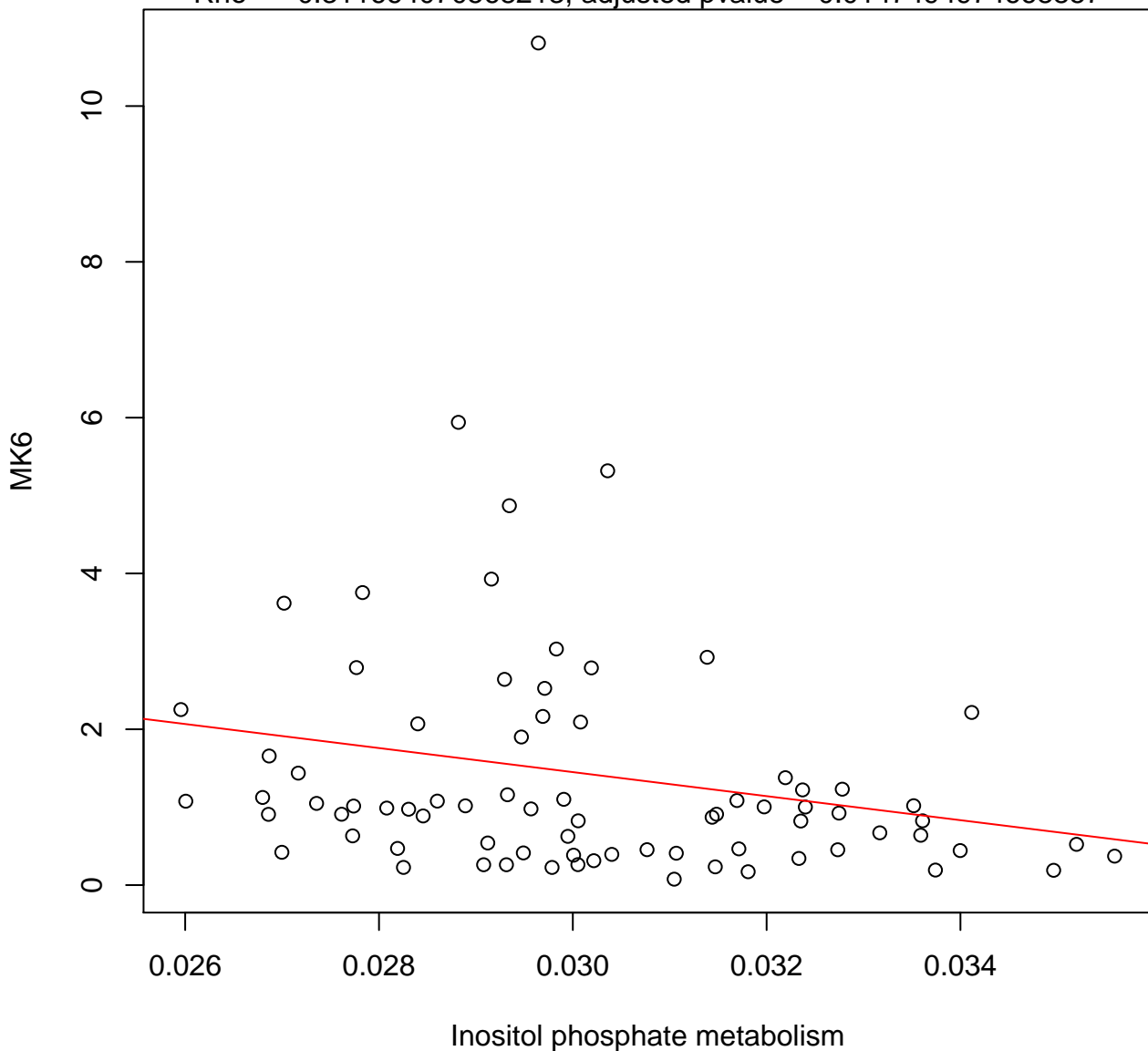
Timepoint 2 , MK6 ~ Glyoxylate and dicarboxylate metabolism

Rho = -0.476303146226875, adjusted pvalue = 9.55558523933725e-05



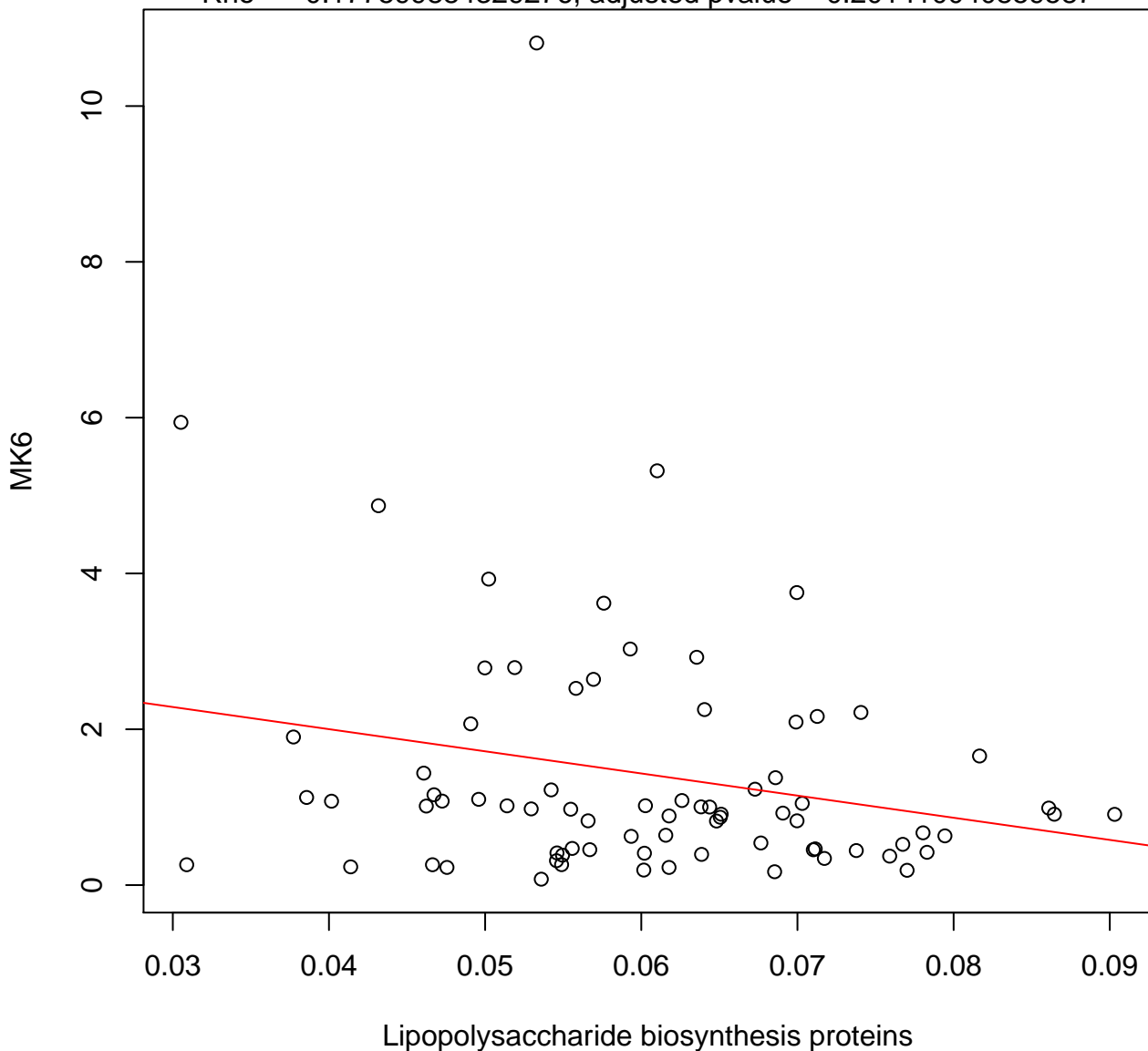
Timepoint 2 , MK6 ~ Inositol phosphate metabolism

Rho = -0.311664070568213 , adjusted pvalue = 0.0147494974668857



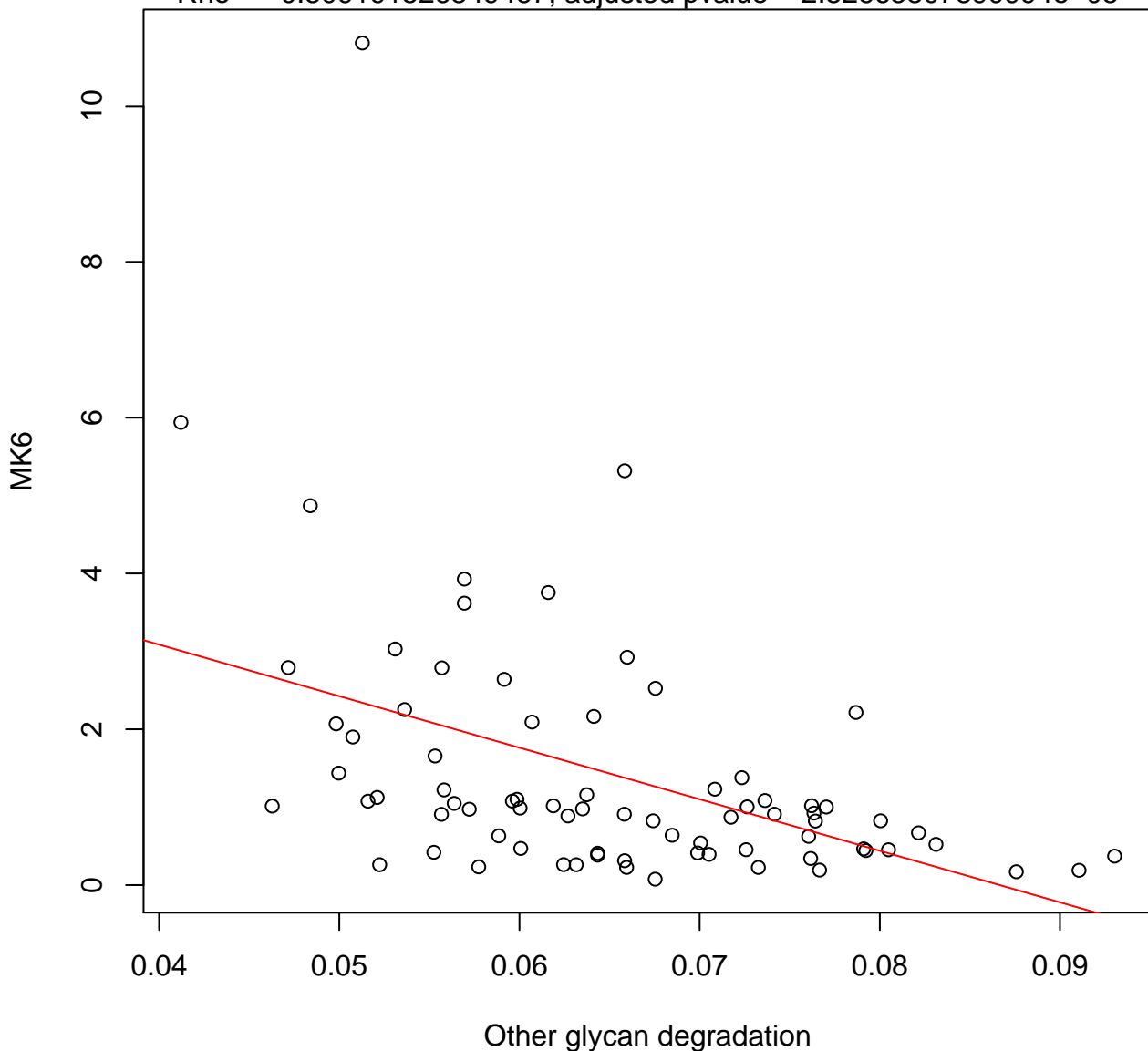
Timepoint 2 , MK6 ~ Lipopolysaccharide biosynthesis proteins

Rho = -0.177599884329276 , adjusted pvalue = 0.201410040859587



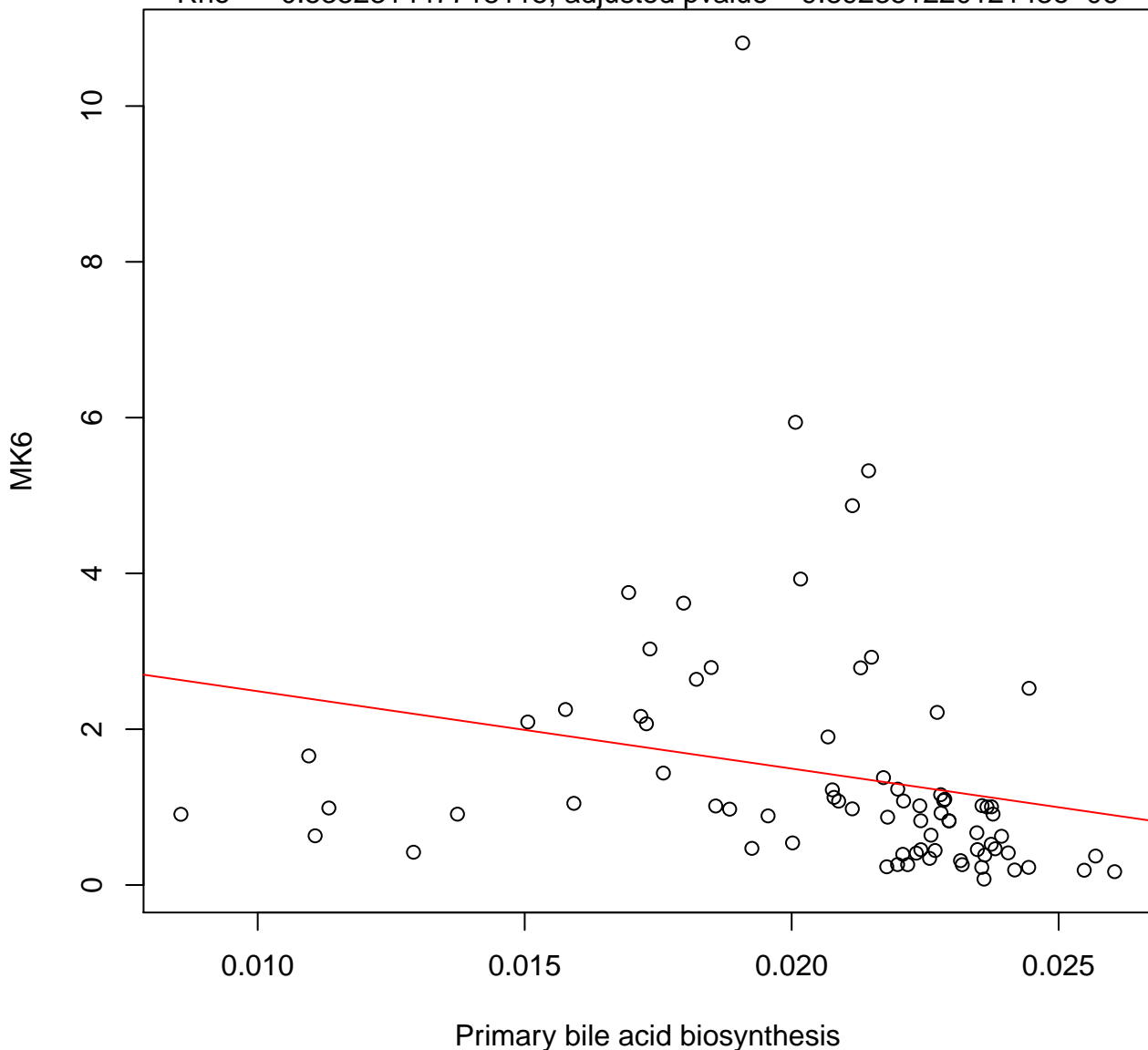
Timepoint 2 , MK6 ~ Other glycan degradation

Rho = -0.509191526849467 , adjusted pvalue = $2.52665807890994e-05$



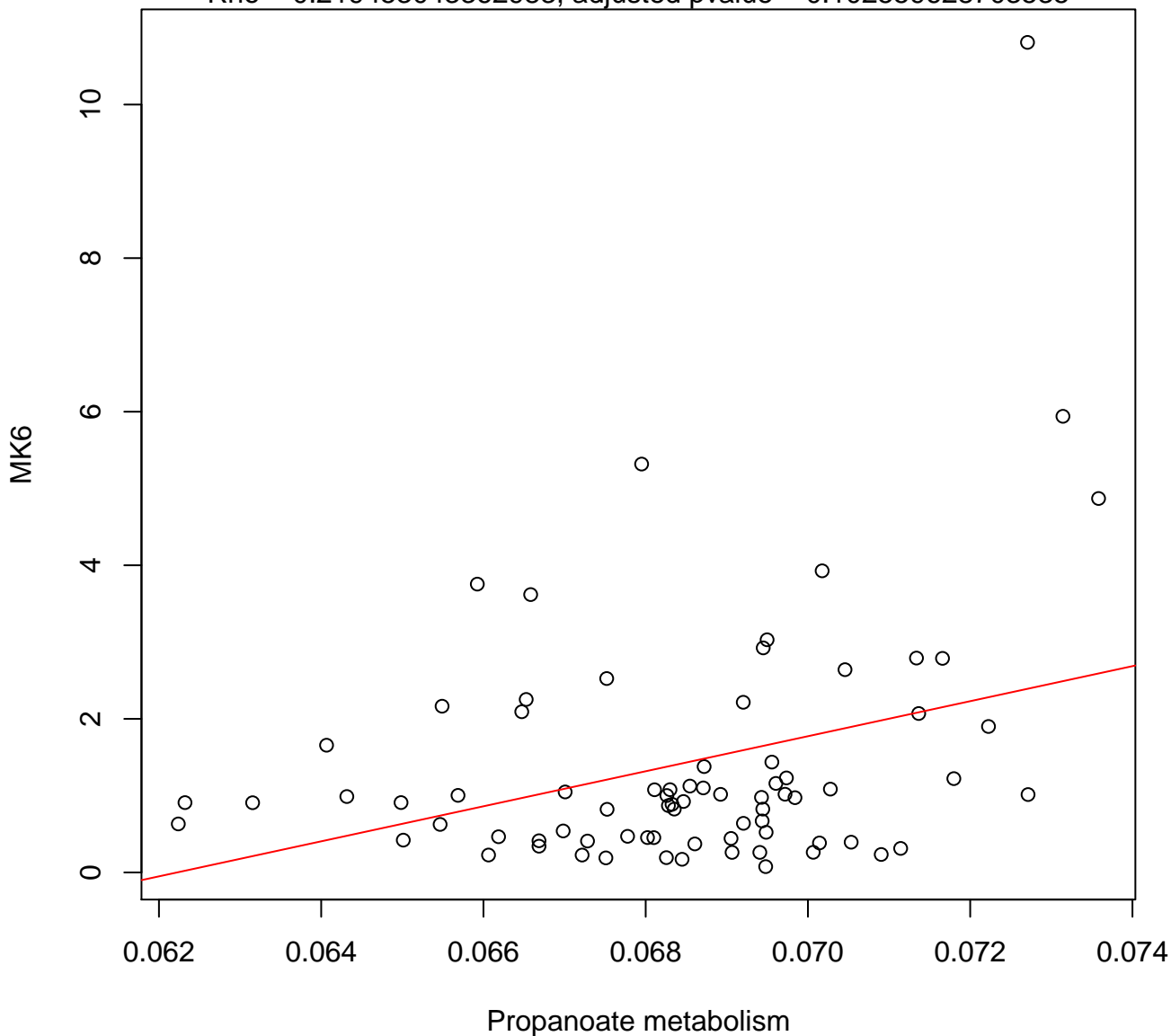
Timepoint 2 , MK6 ~ Primary bile acid biosynthesis

Rho = -0.535231447718115 , adjusted pvalue = $9.89235122012143e-06$



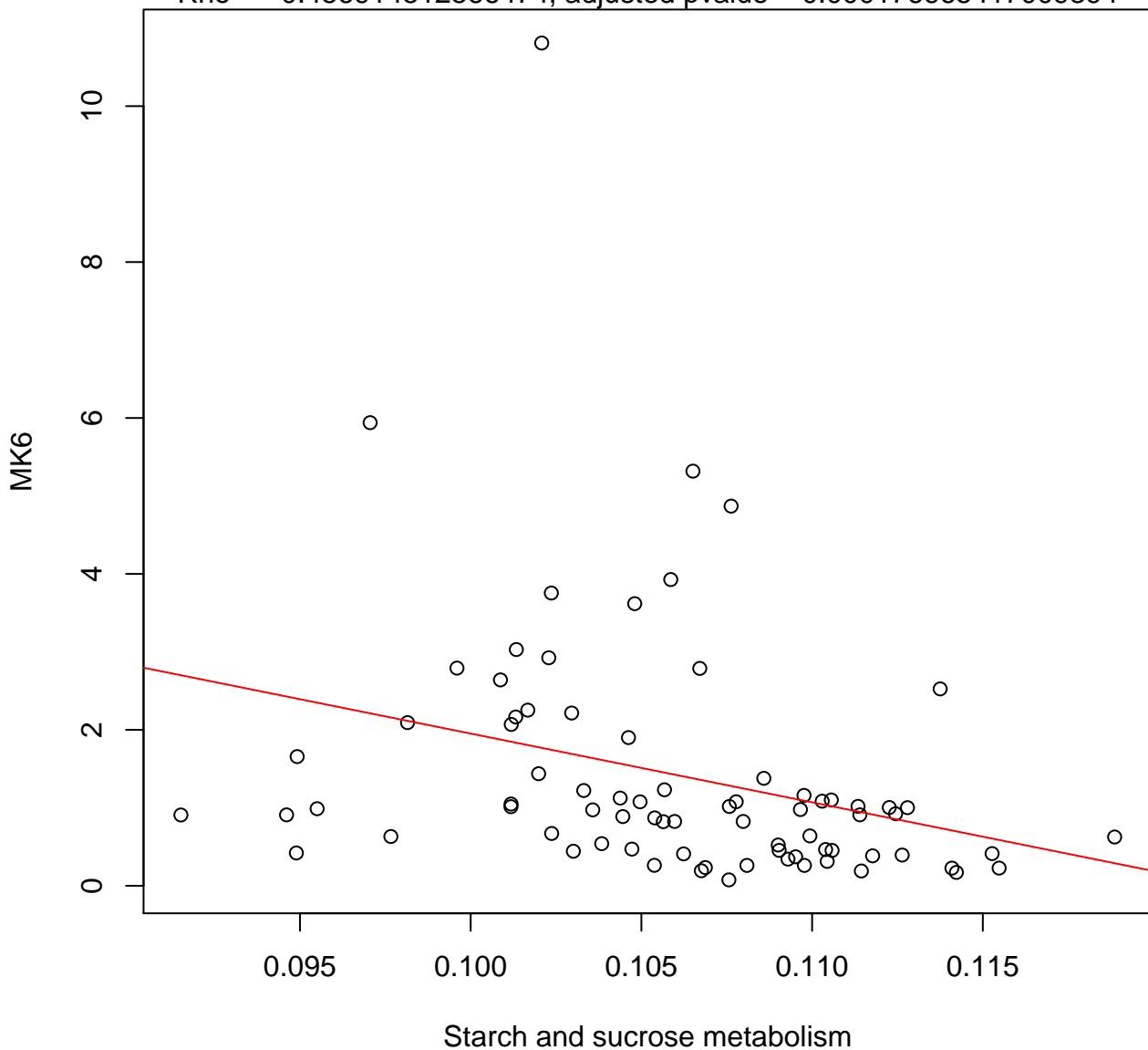
Timepoint 2 , MK6 ~ Propanoate metabolism

Rho = 0.219453043362983, adjusted pvalue = 0.102559628703535



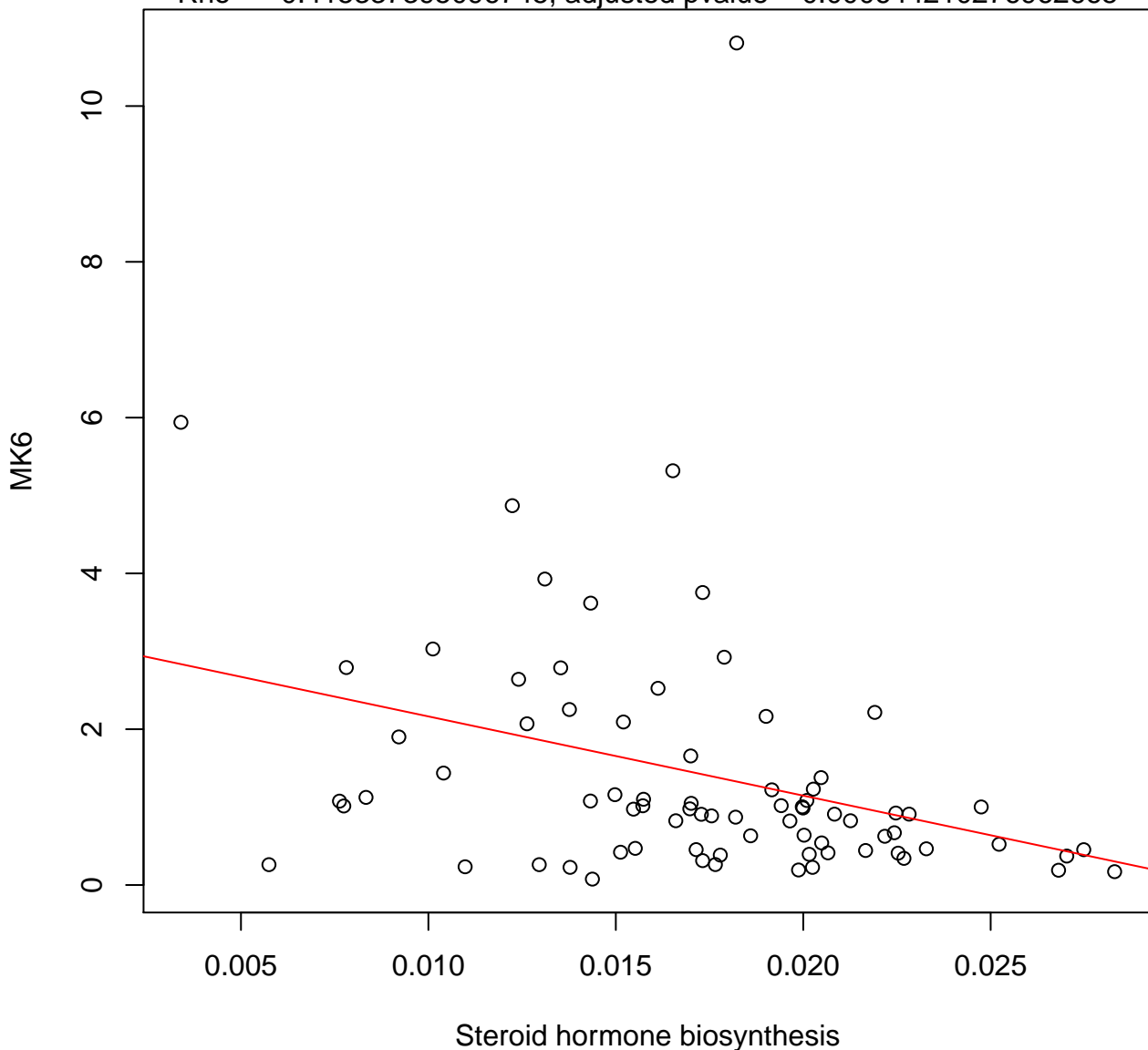
Timepoint 2 , MK6 ~ Starch and sucrose metabolism

Rho = -0.456914512566474 , adjusted pvalue = 0.000176665417009394



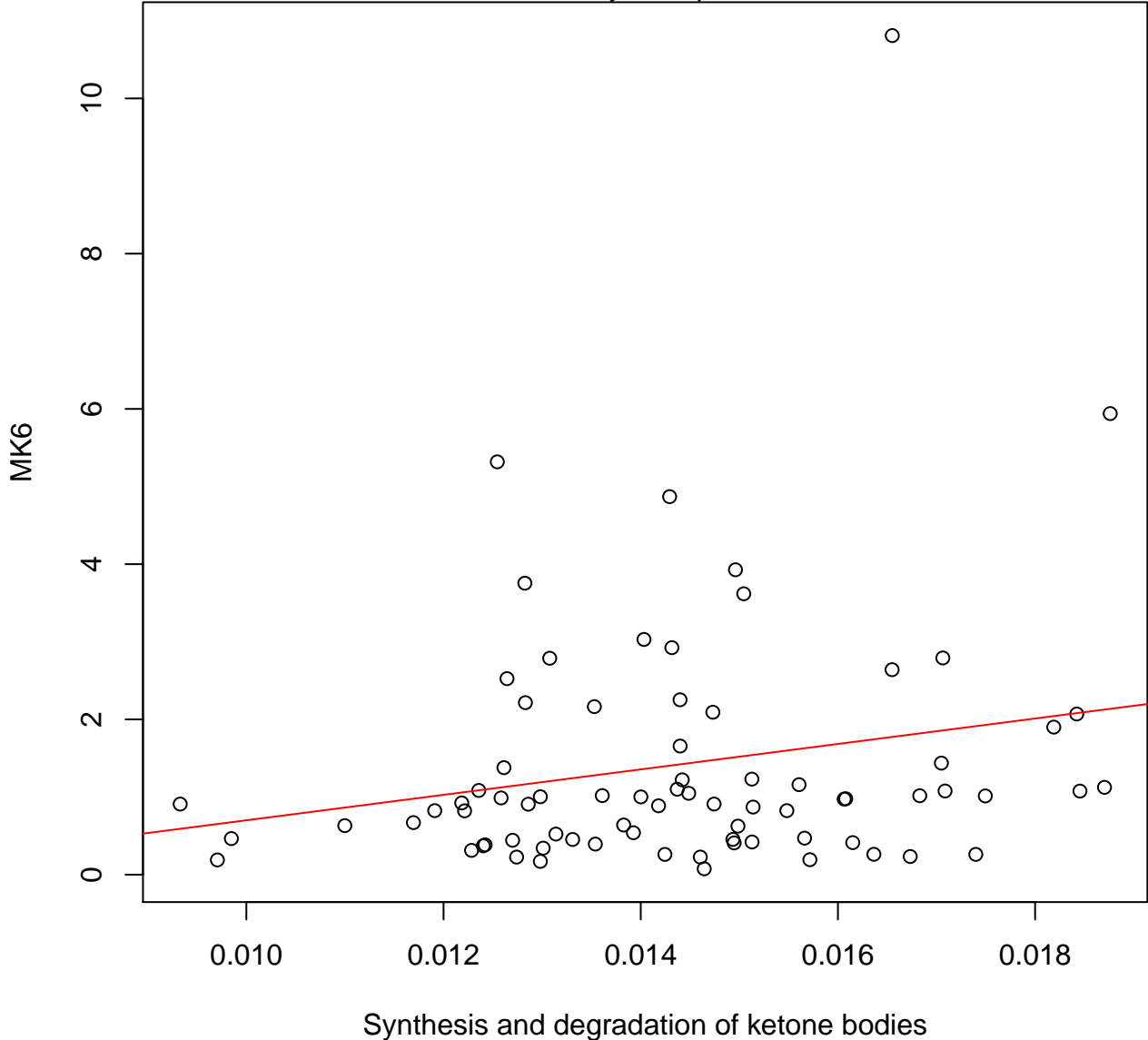
Timepoint 2 , MK6 ~ Steroid hormone biosynthesis

Rho = -0.415337395096745 , adjusted pvalue = 0.000644210276962665



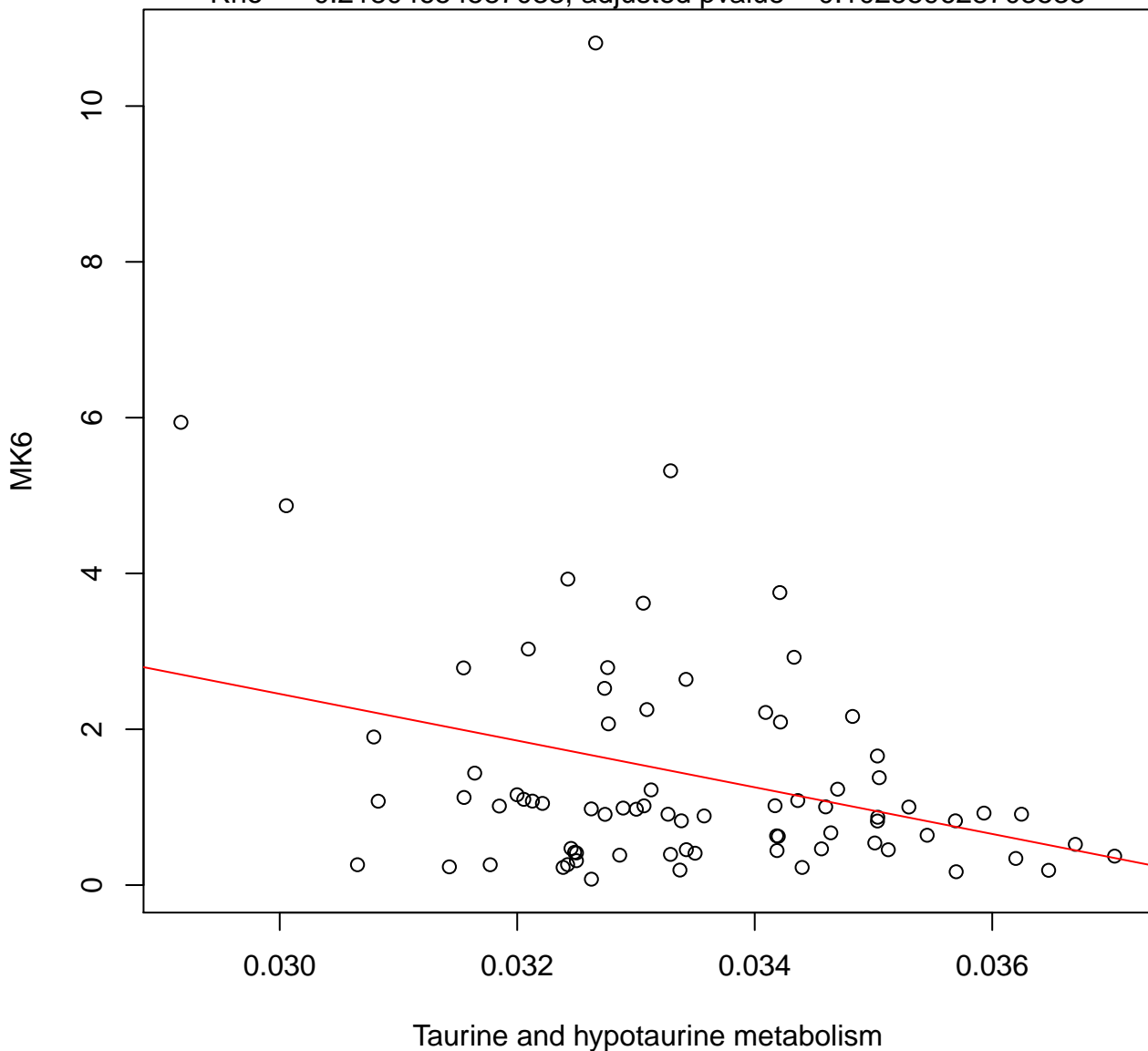
Timepoint 2 , MK6 ~ Synthesis and degradation of ketone bodies

Rho = 0.203744963888963, adjusted pvalue = 0.128151694163277



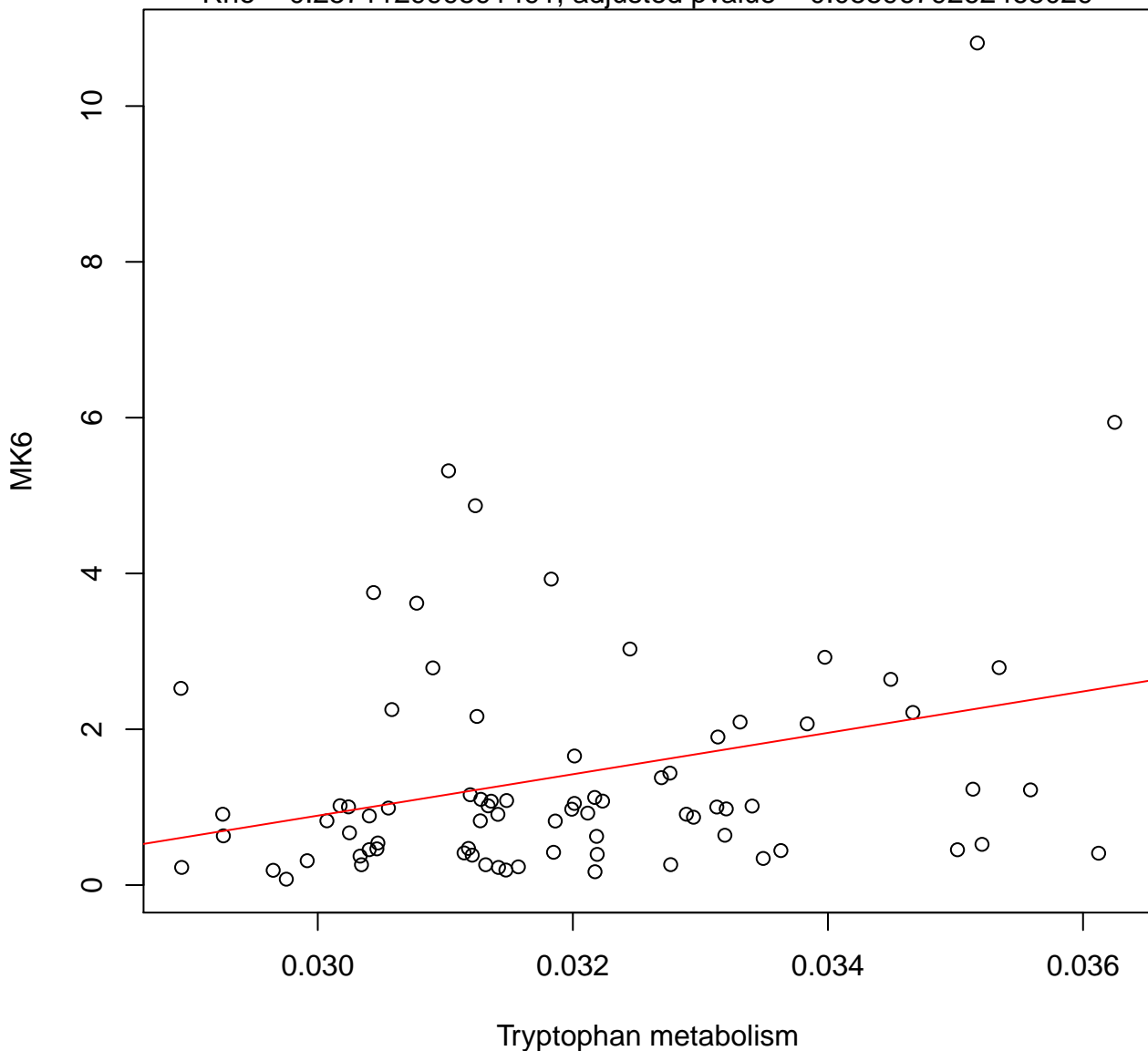
Timepoint 2 , MK6 ~ Taurine and hypotaurine metabolism

Rho = -0.21804654587033 , adjusted pvalue = 0.102559628703535



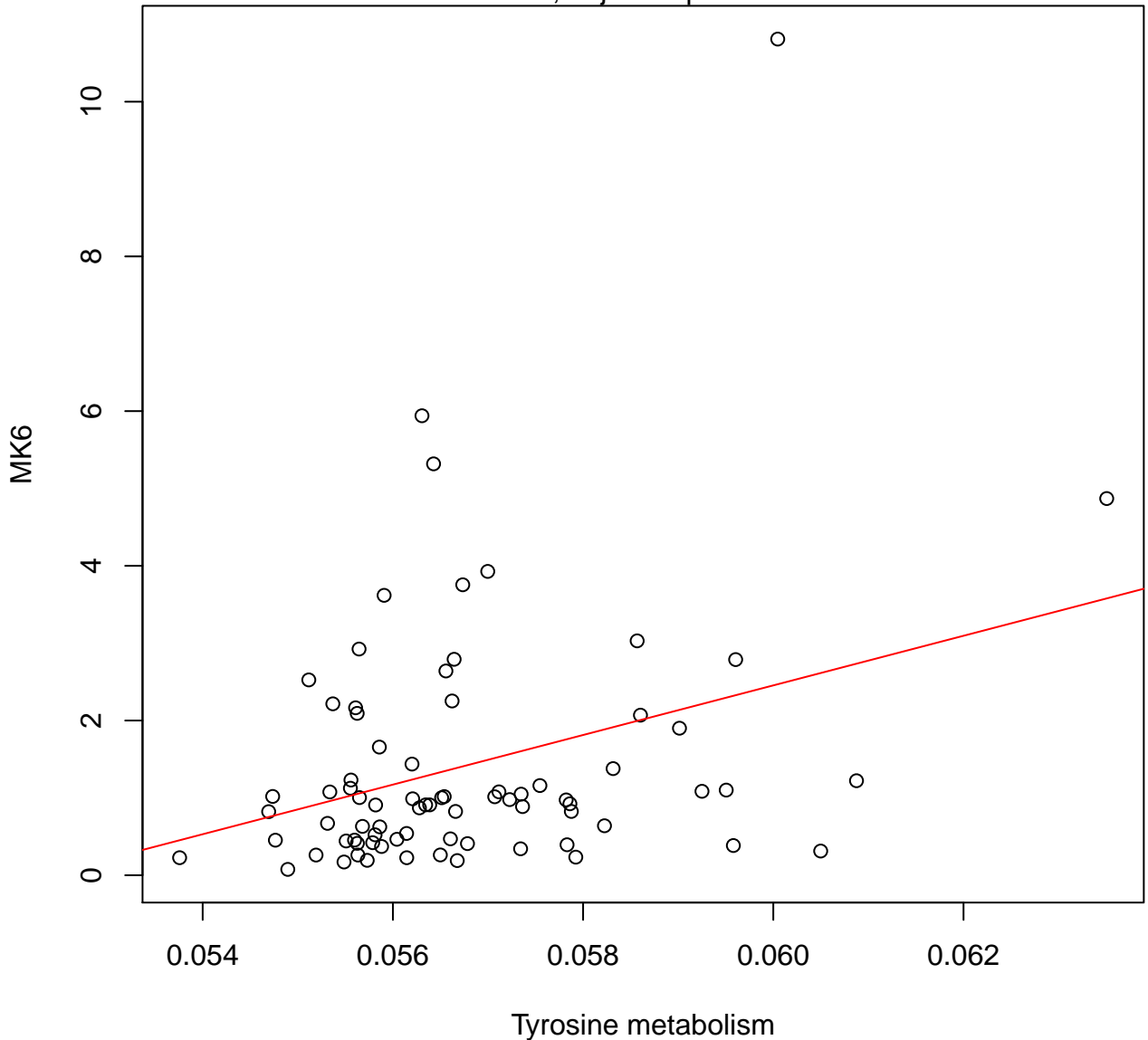
Timepoint 2 , MK6 ~ Tryptophan metabolism

Rho = 0.257112999591491, adjusted pvalue = 0.0559679262465029



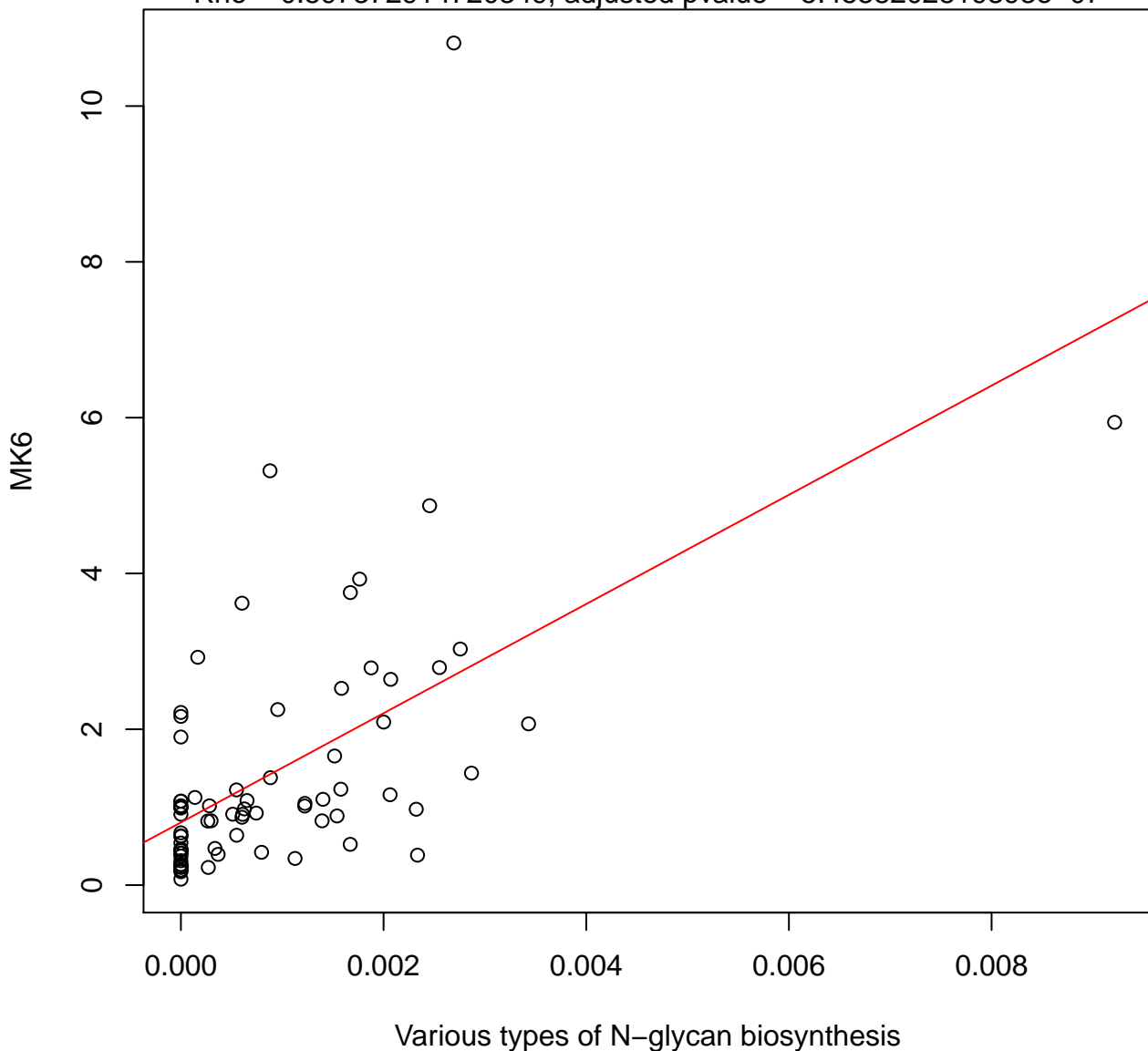
Timepoint 2 , MK6 ~ Tyrosine metabolism

Rho = 0.246899461724283, adjusted pvalue = 0.0681145907861653



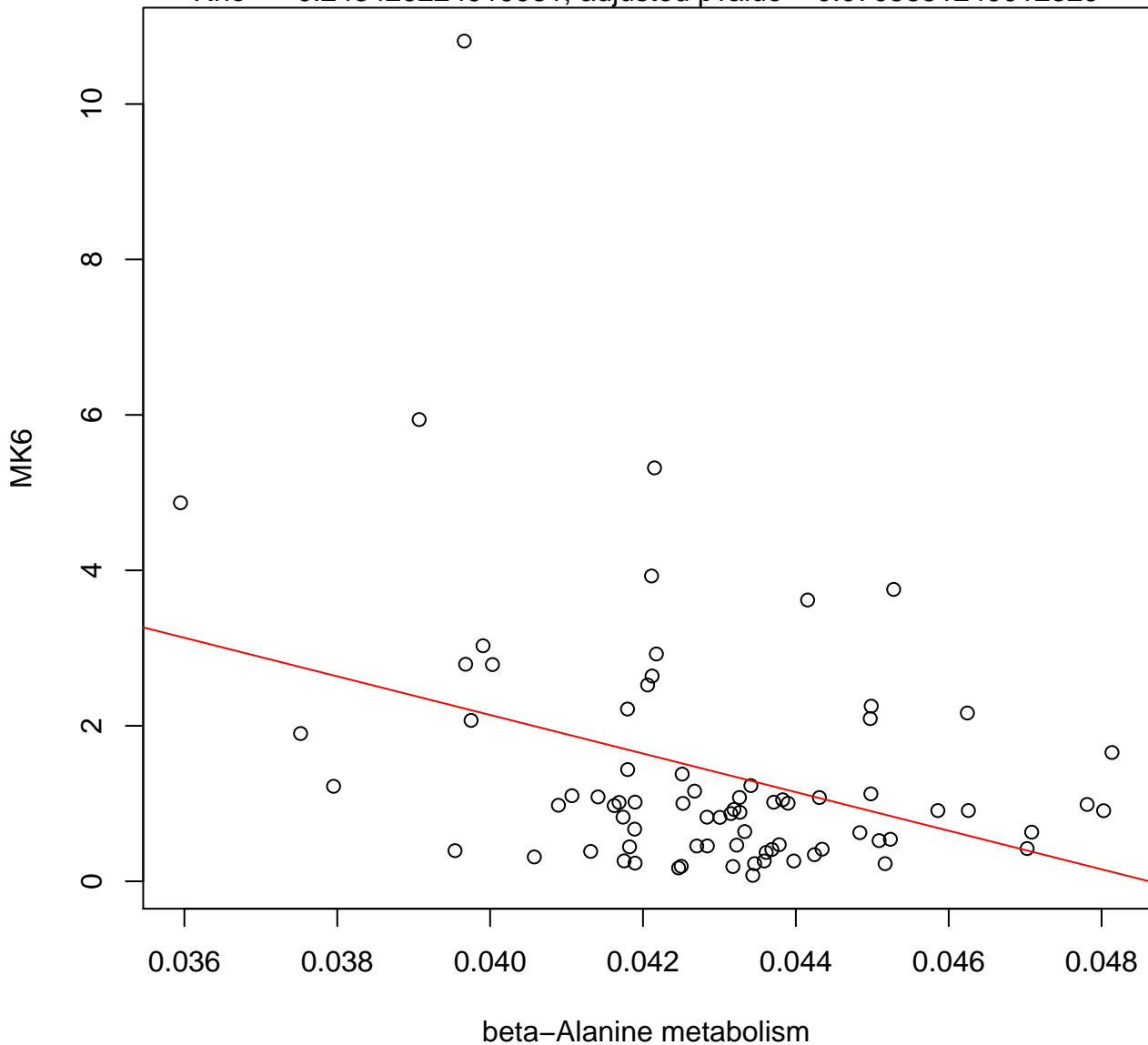
Timepoint 2 , MK6 ~ Various types of N-glycan biosynthesis

Rho = 0.597372914720349, adjusted pvalue = 5.4558202819393e-07



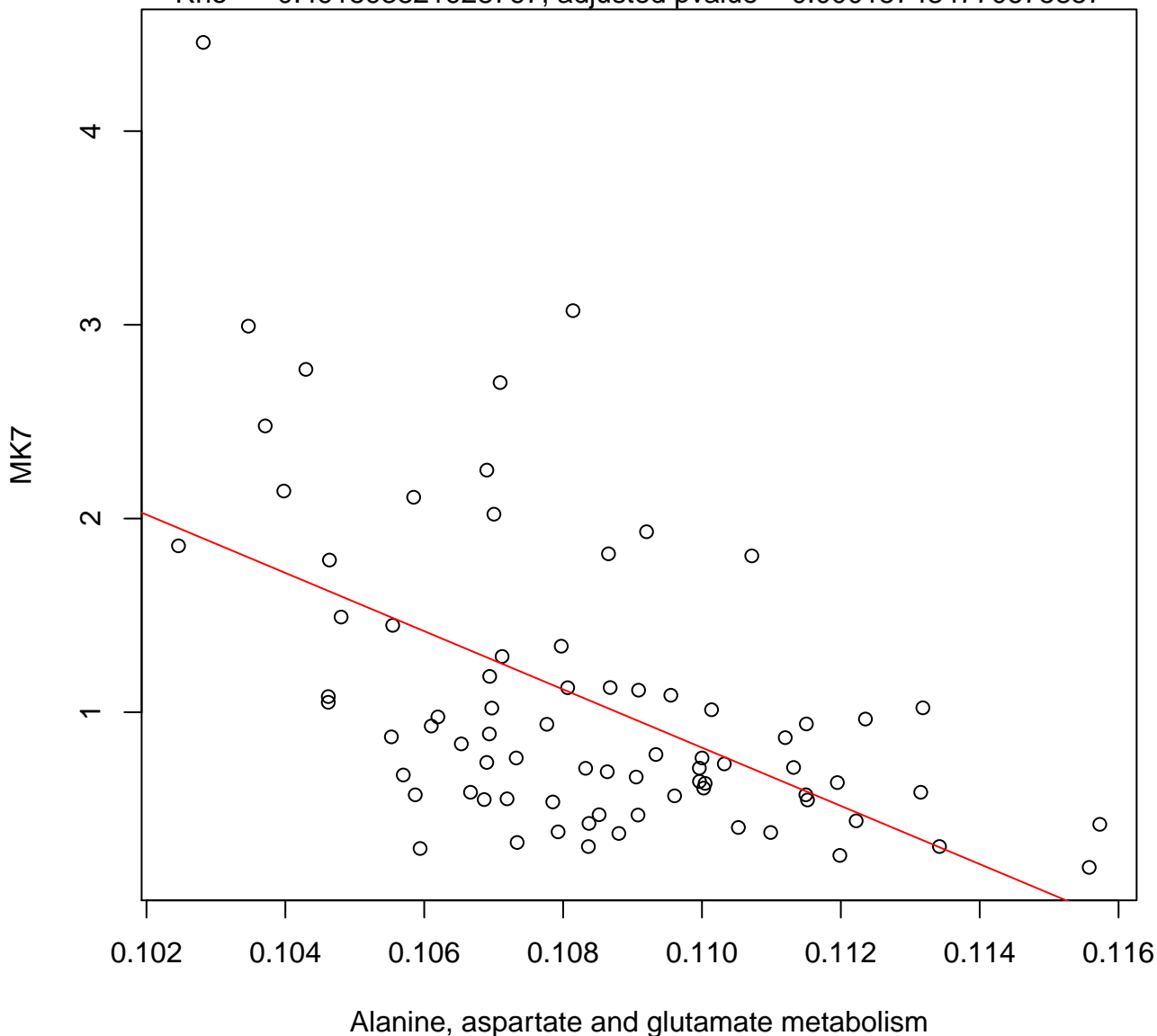
Timepoint 2 , MK6 ~ beta-Alanine metabolism

Rho = -0.243429224919981 , adjusted pvalue = 0.0705851249012329



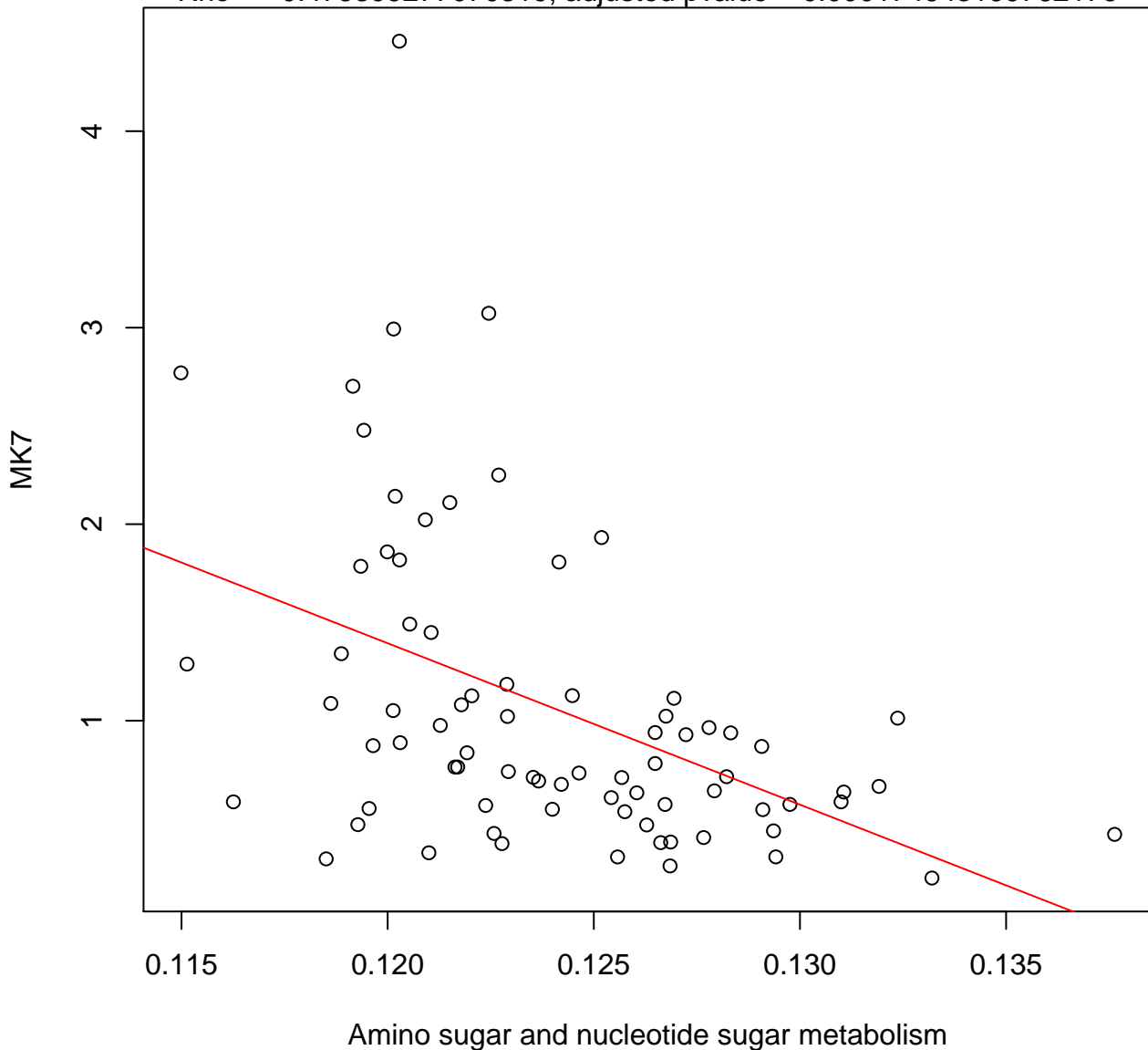
Timepoint 2 , MK7 ~ Alanine, aspartate and glutamate metabolism

Rho = -0.491593821928767 , adjusted pvalue = 0.000157434770675857



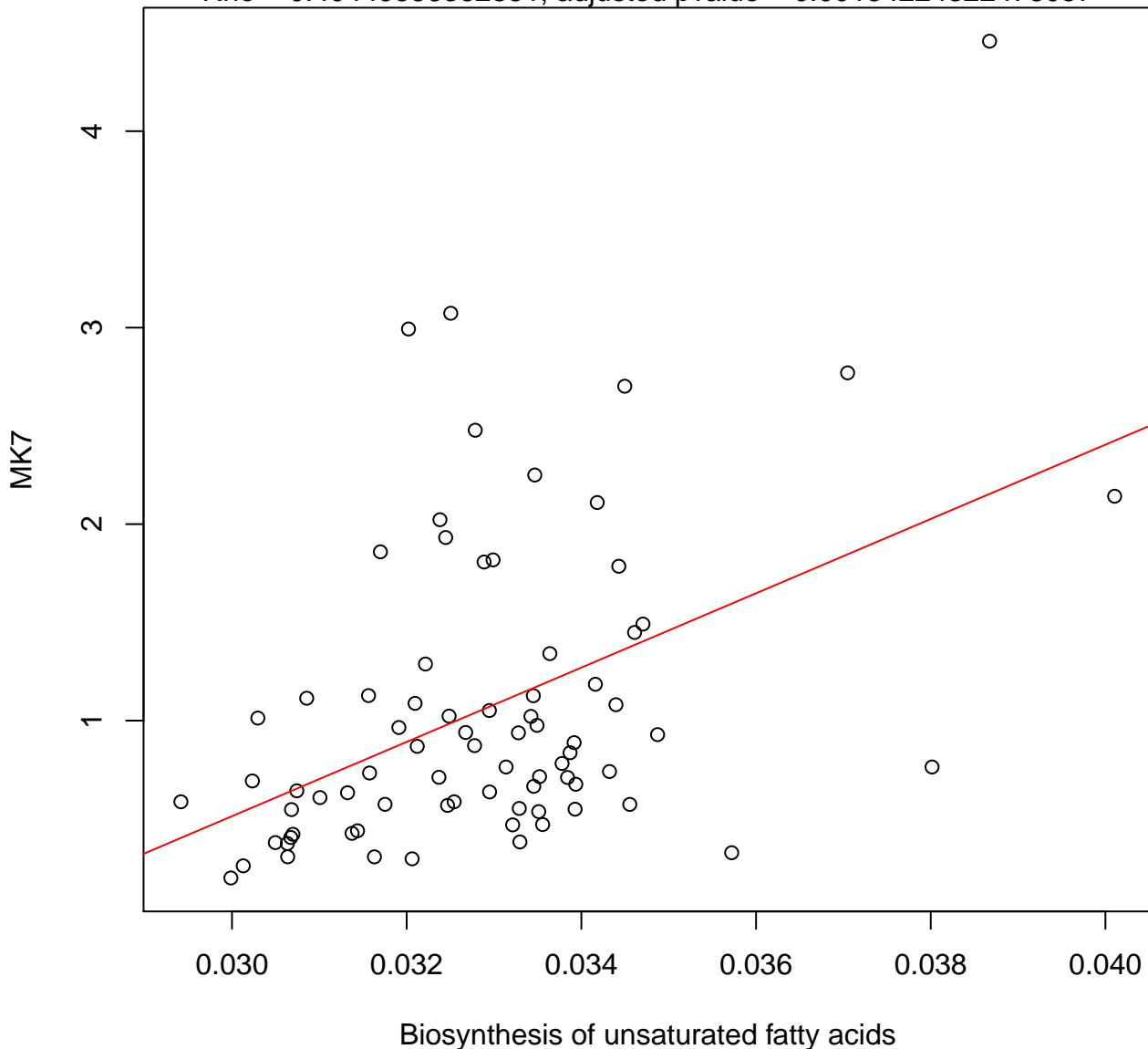
Timepoint 2 , MK7 ~ Amino sugar and nucleotide sugar metabolism

Rho = -0.475399277070319 , adjusted pvalue = 0.000174643199762176



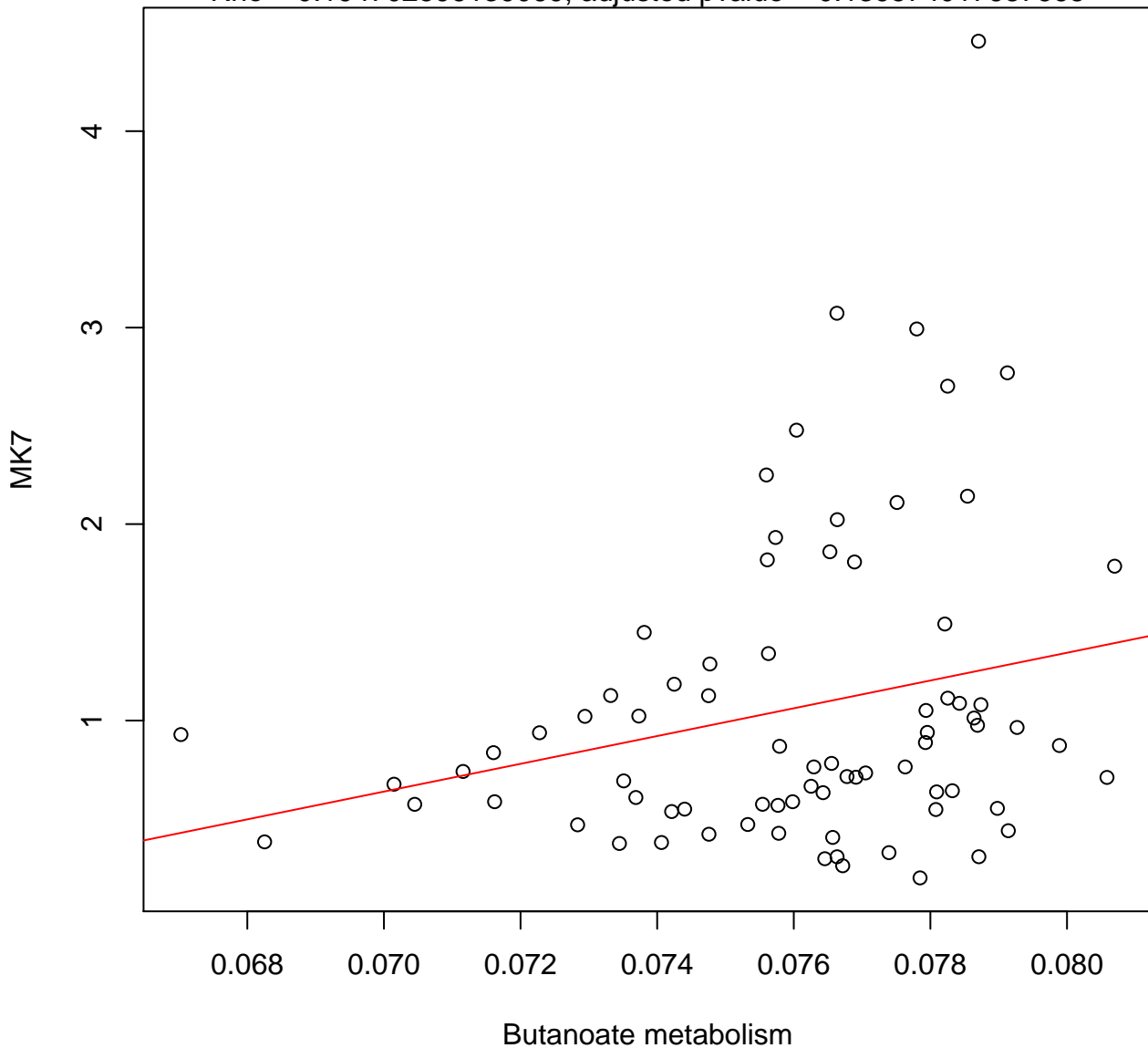
Timepoint 2 , MK7 ~ Biosynthesis of unsaturated fatty acids

Rho = 0.40449556362351, adjusted pvalue = 0.00134224322478057



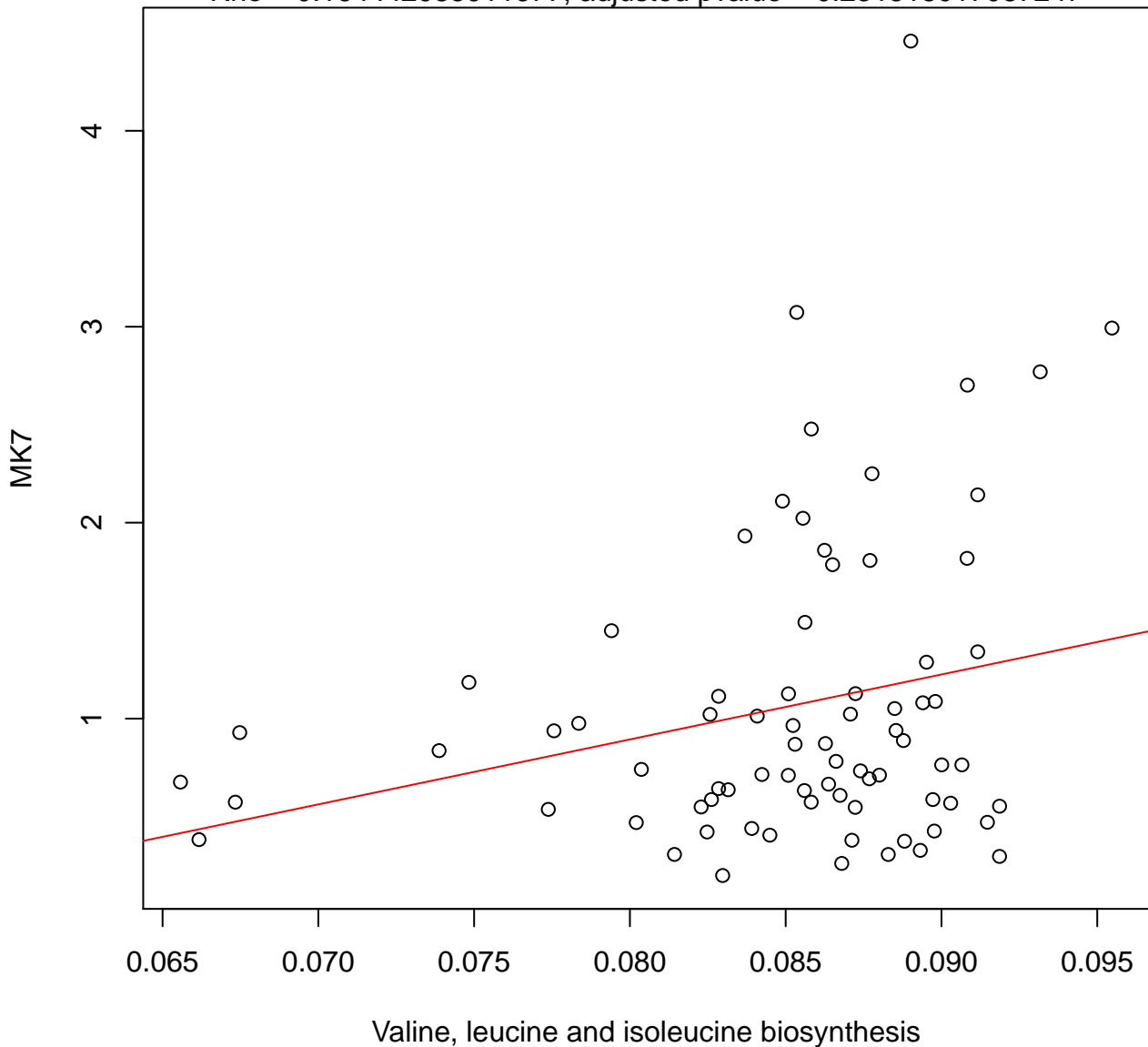
Timepoint 2 , MK7 ~ Butanoate metabolism

Rho = 0.194702596139069, adjusted pvalue = 0.139574017687668



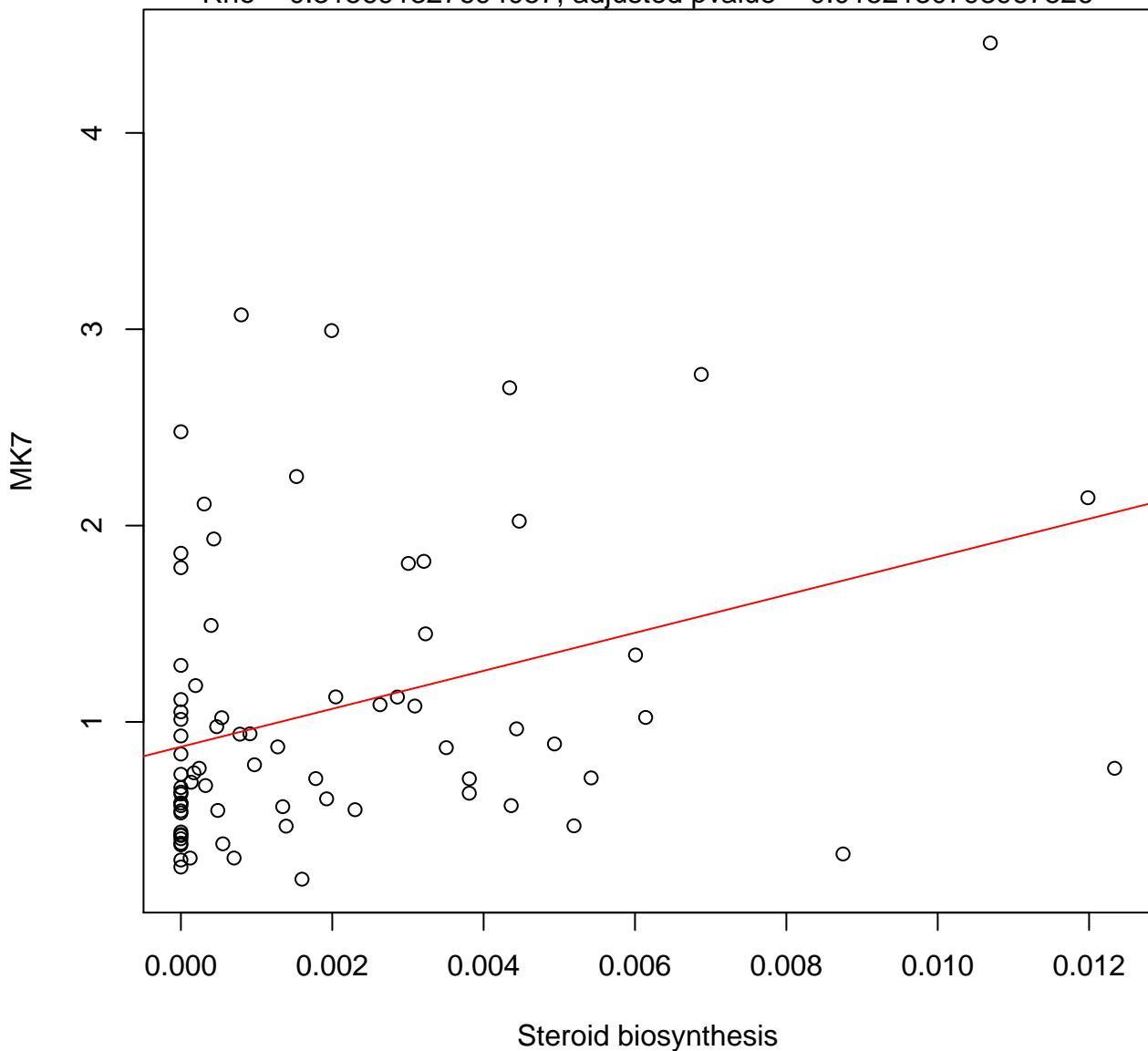
Timepoint 2 , MK7 ~ Valine, leucine and isoleucine biosynthesis

Rho = 0.164442983911677, adjusted pvalue = 0.231518017087247



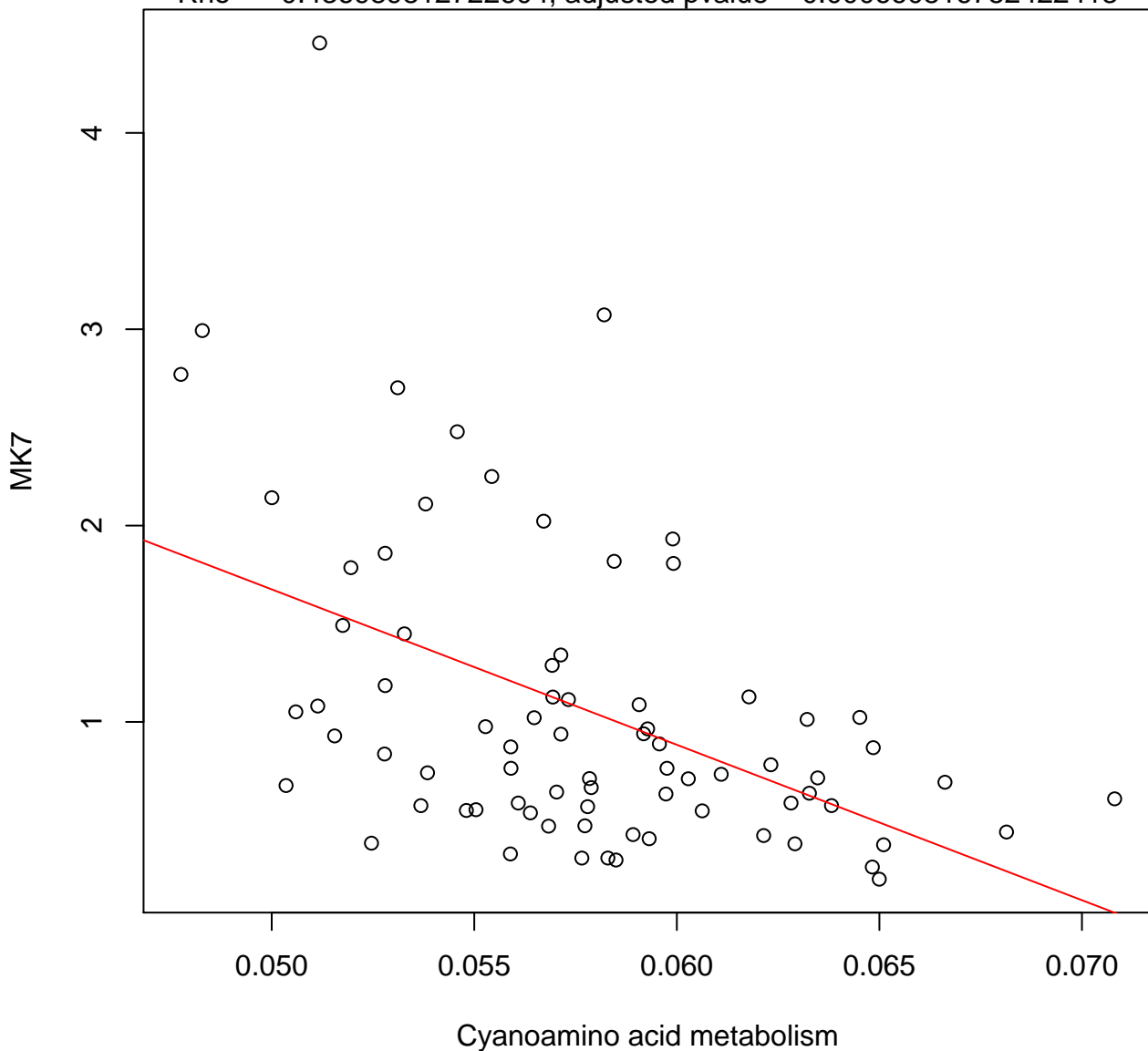
Timepoint 2 , MK7 ~ Steroid biosynthesis

Rho = 0.315691327694057, adjusted pvalue = 0.0152130793967526



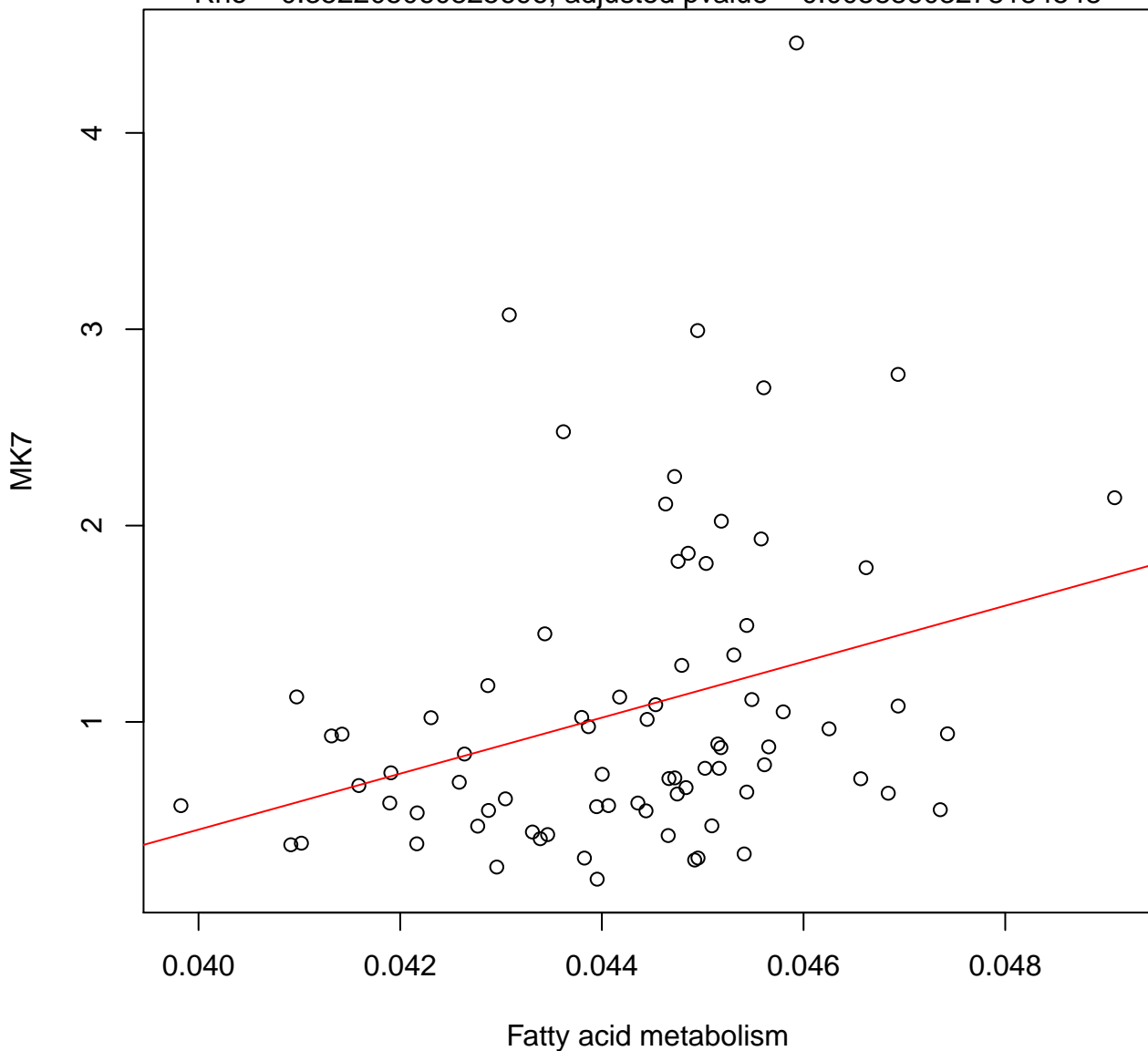
Timepoint 2 , MK7 ~ Cyanoamino acid metabolism

Rho = -0.436989812722604 , adjusted pvalue = 0.000660816752422413



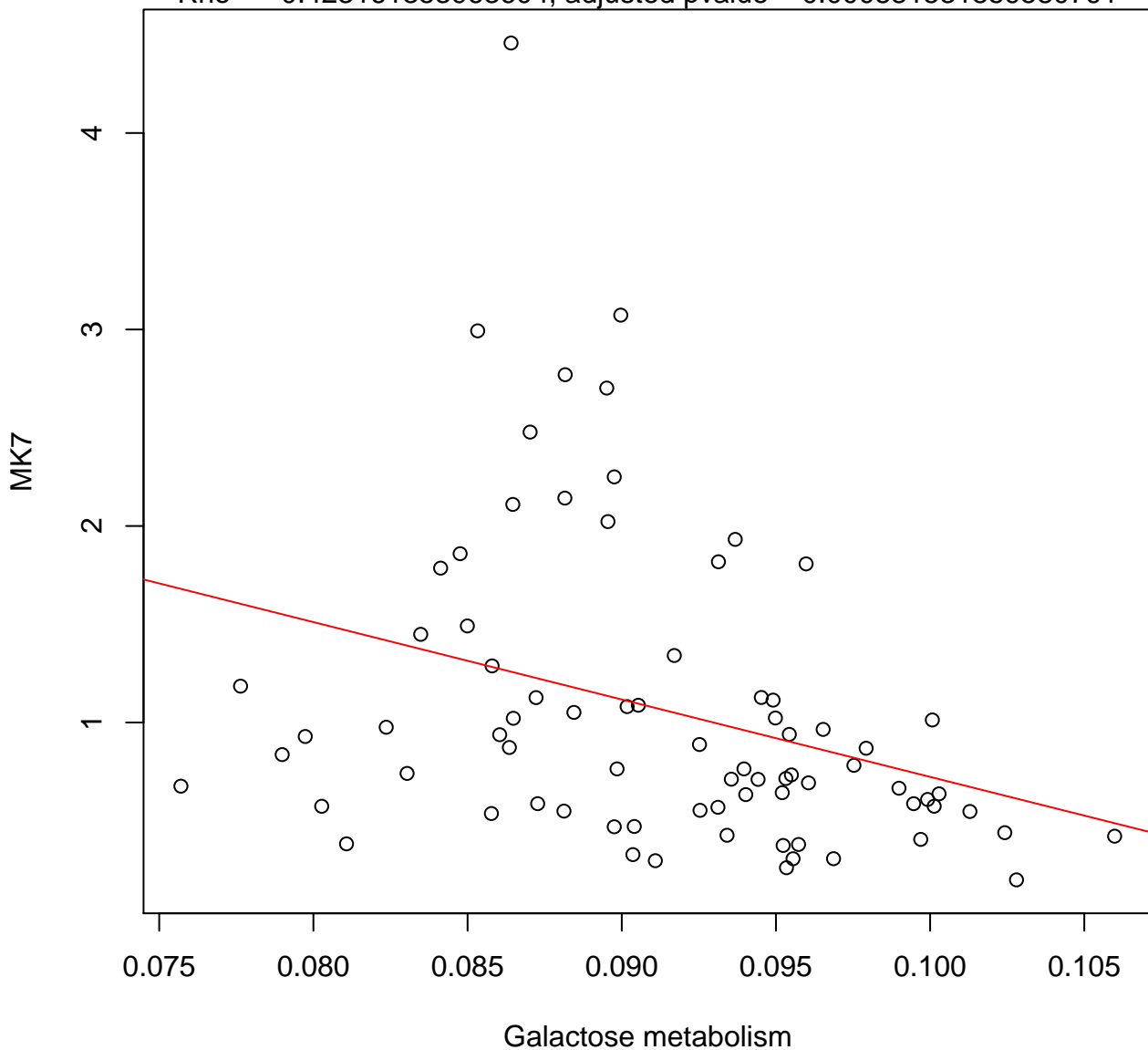
Timepoint 2 , MK7 ~ Fatty acid metabolism

Rho = 0.352205060825696, adjusted pvalue = 0.00588603278184548



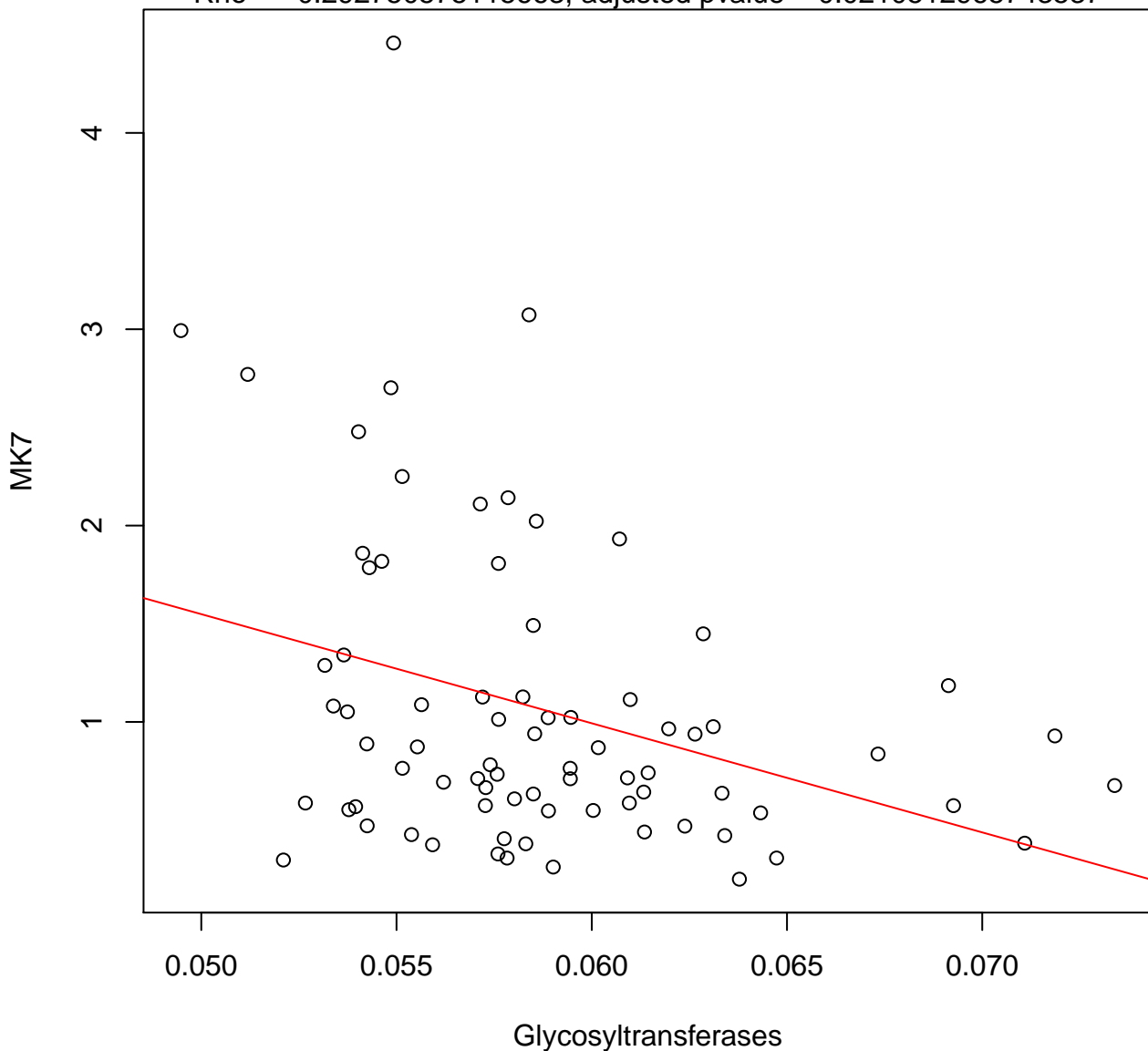
Timepoint 2 , MK7 ~ Galactose metabolism

Rho = -0.423161353963604 , adjusted pvalue = 0.000881531859580791



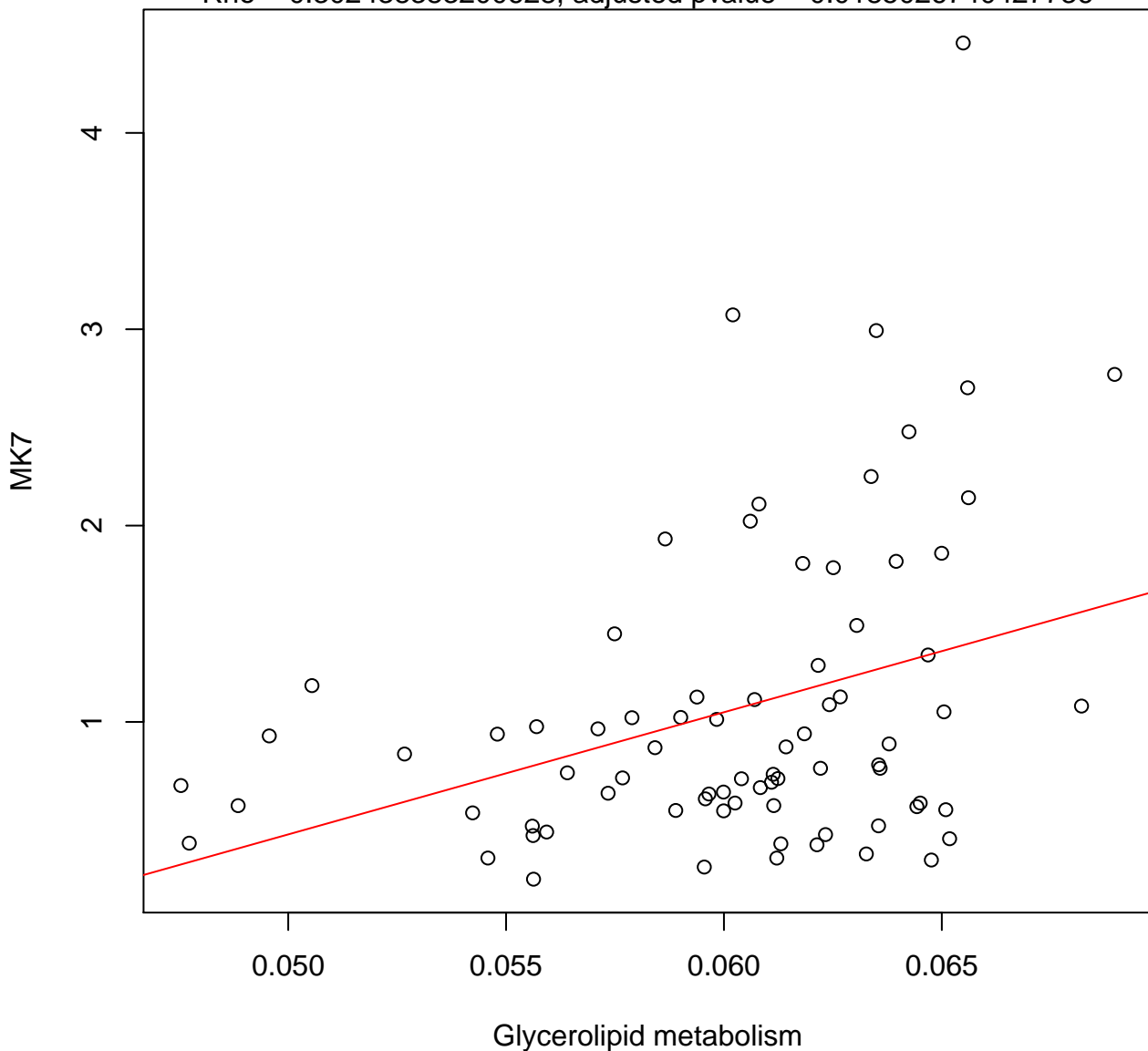
Timepoint 2 , MK7 ~ Glycosyltransferases

Rho = -0.292750575115663 , adjusted pvalue = 0.0210512965743537



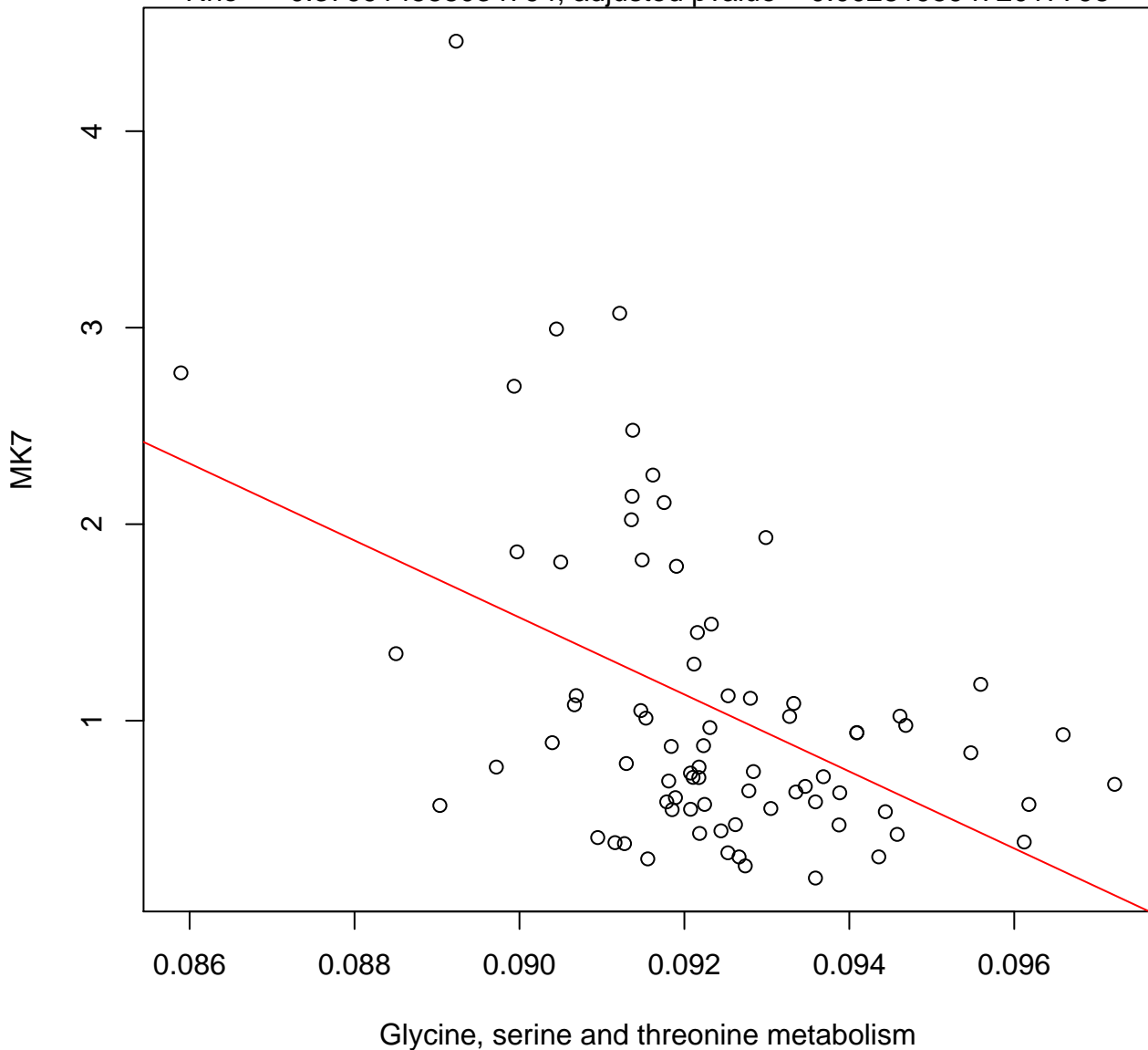
Timepoint 2 , MK7 ~ Glycerolipid metabolism

Rho = 0.302438383200628, adjusted pvalue = 0.0185026740427736



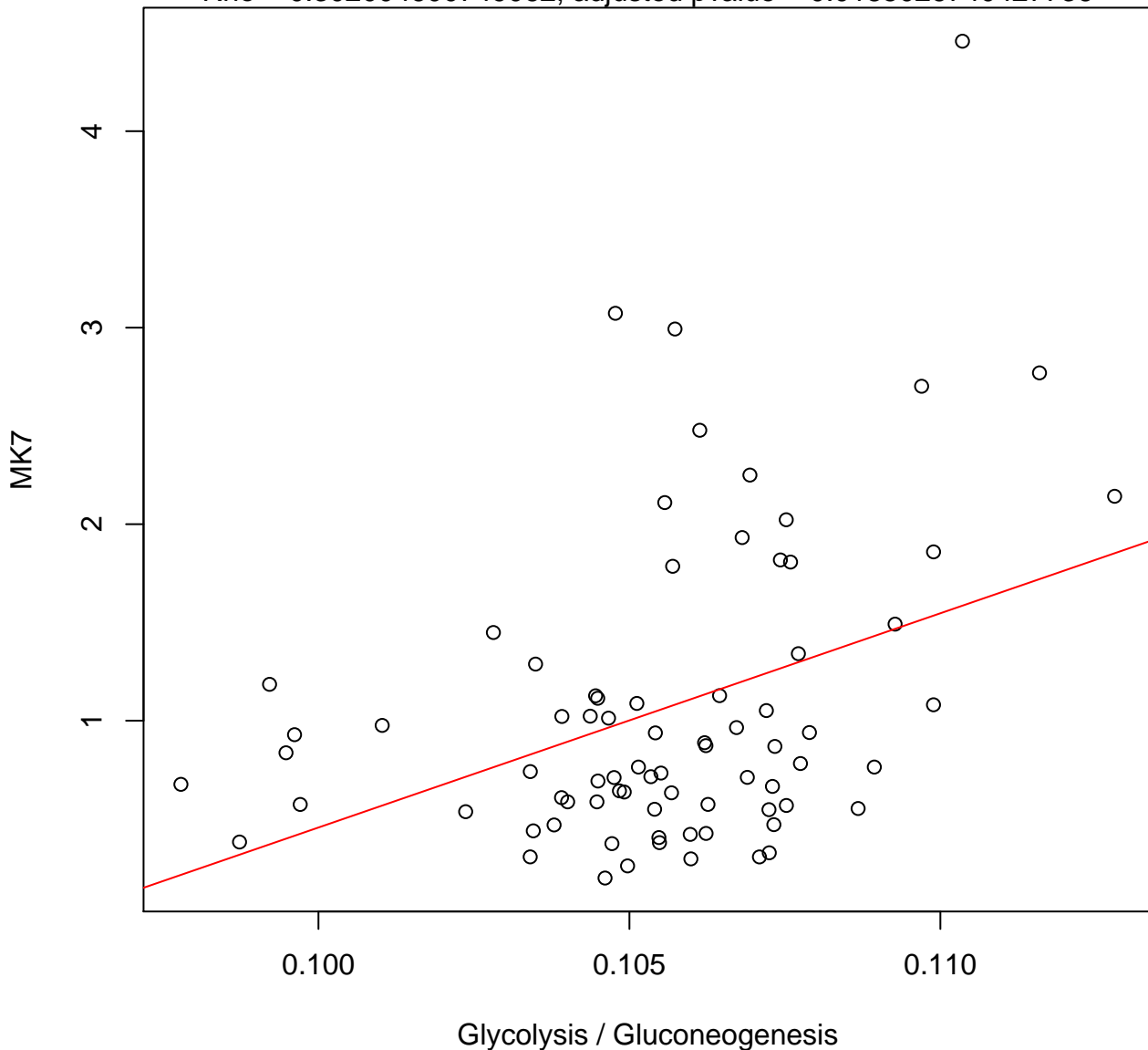
Timepoint 2 , MK7 ~ Glycine, serine and threonine metabolism

Rho = -0.379914558034794 , adjusted pvalue = 0.00281959472017798



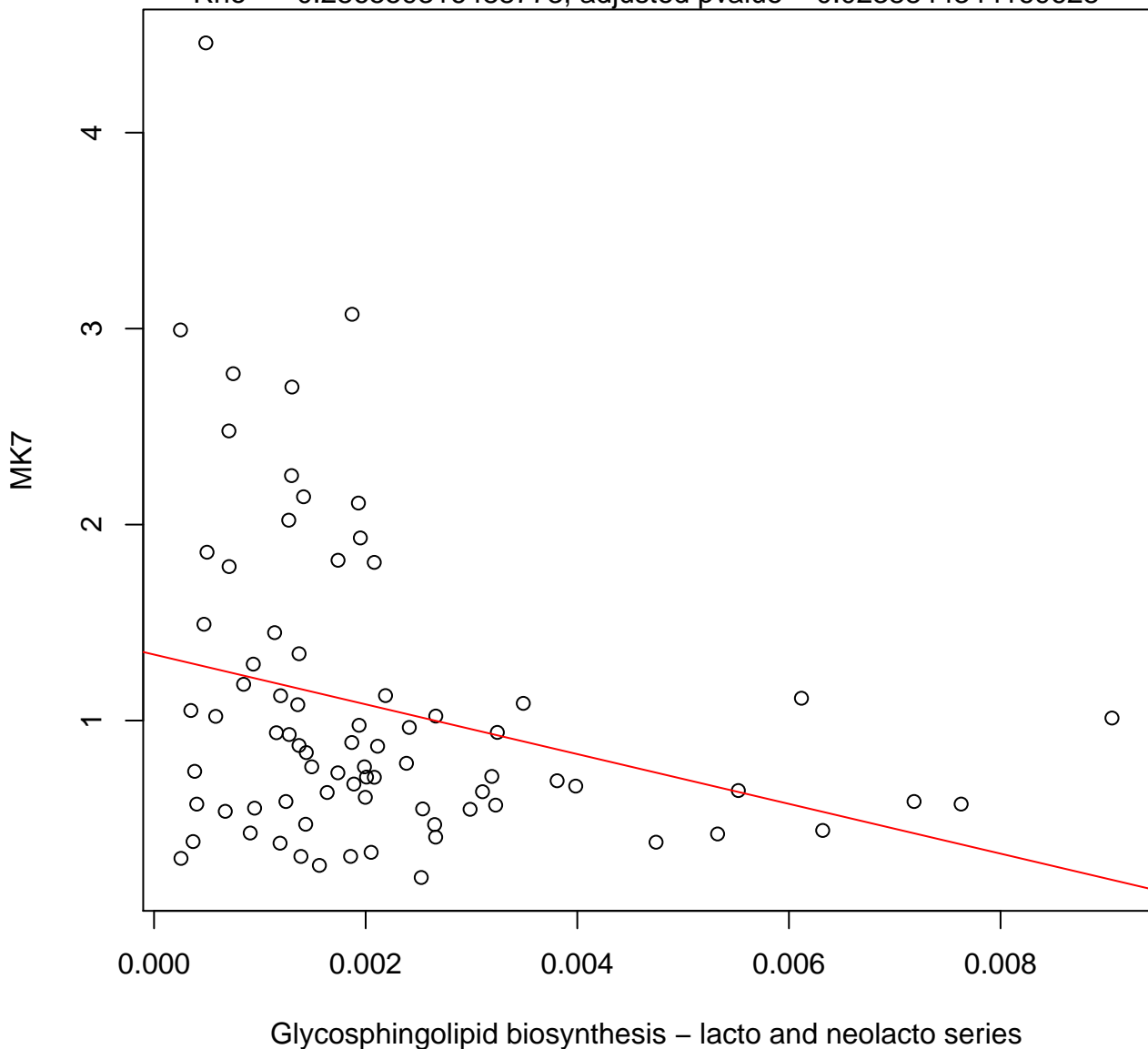
Timepoint 2 , MK7 ~ Glycolysis / Gluconeogenesis

Rho = 0.302004600749062, adjusted pvalue = 0.0185026740427736



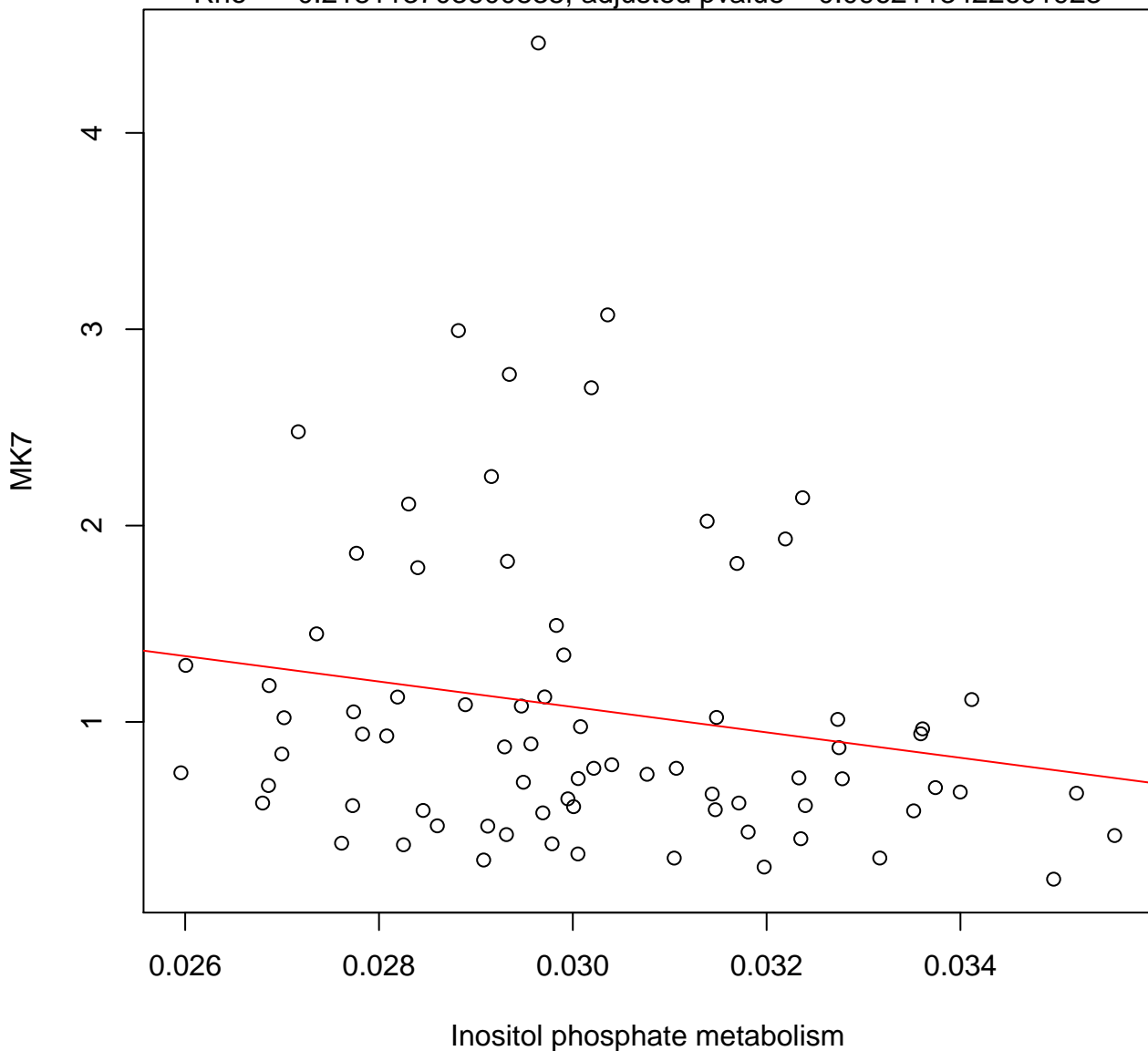
Timepoint 2 , MK7 ~ Glycosphingolipid biosynthesis – lacto and neolacto s

Rho = -0.286559316488773 , adjusted pvalue = 0.0238844344169628



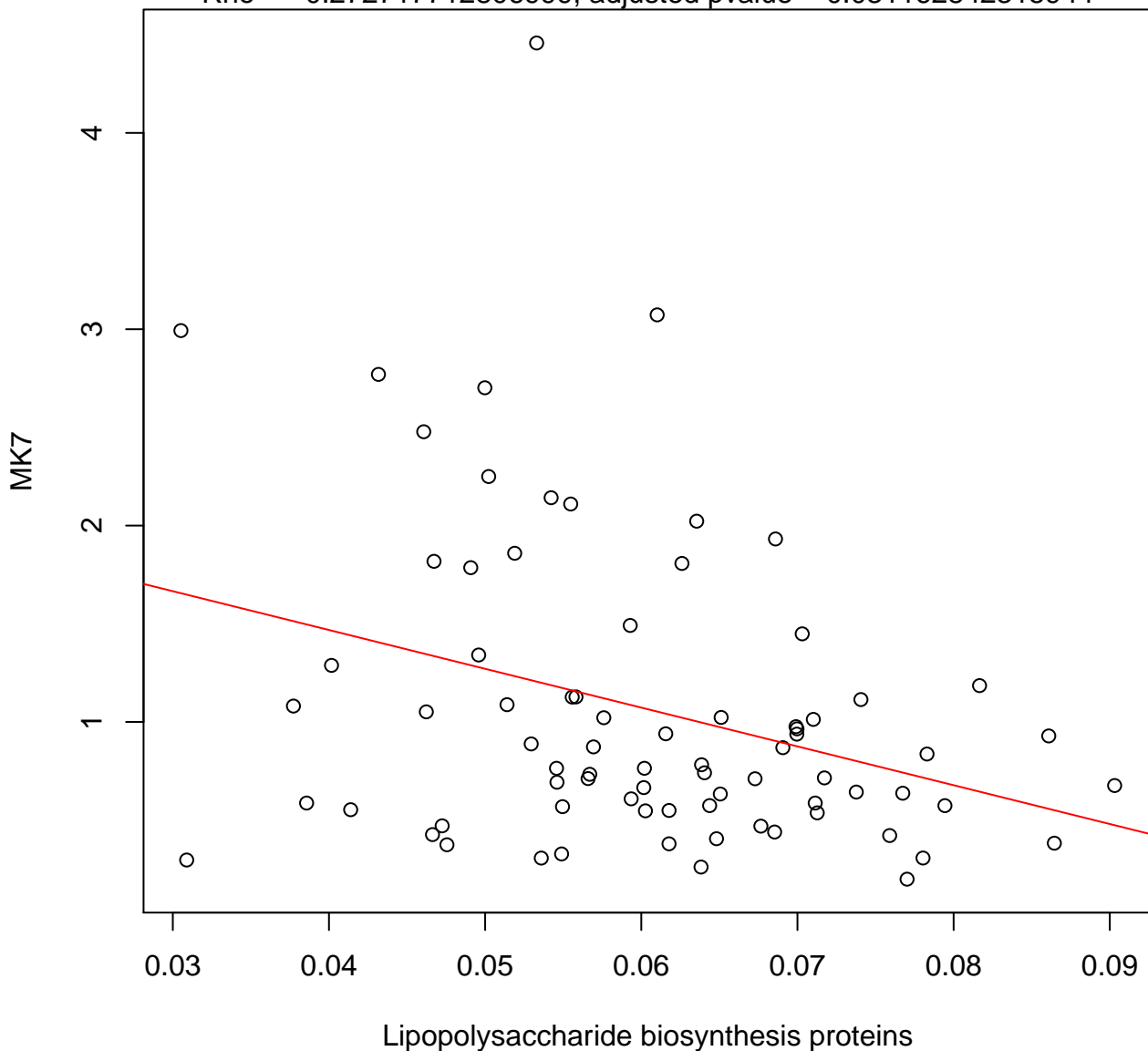
Timepoint 2 , MK7 ~ Inositol phosphate metabolism

Rho = -0.218113703600835 , adjusted pvalue = 0.0962113422691923



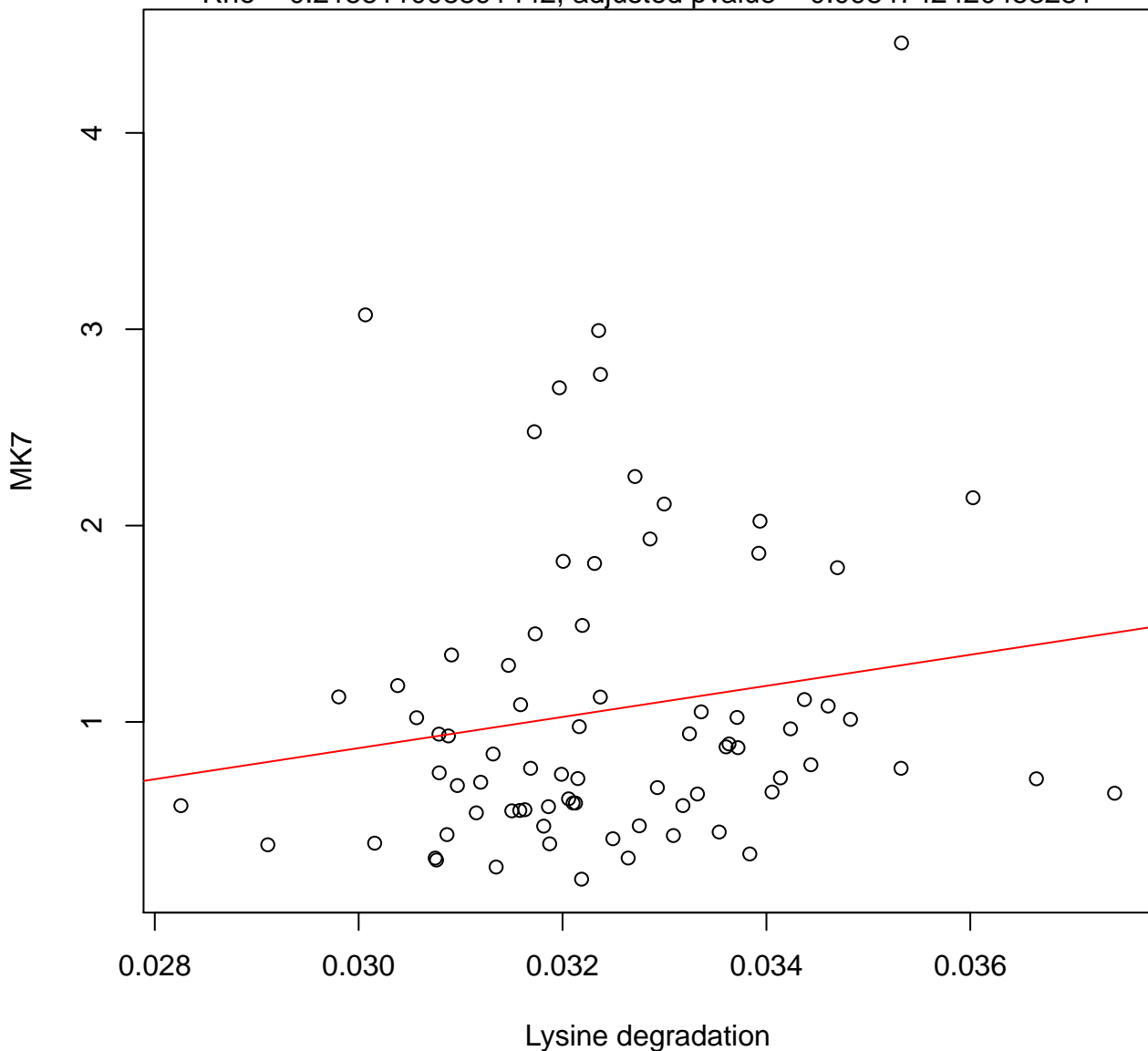
Timepoint 2 , MK7 ~ Lipopolysaccharide biosynthesis proteins

Rho = -0.272717712806999 , adjusted pvalue = 0.031162842315944



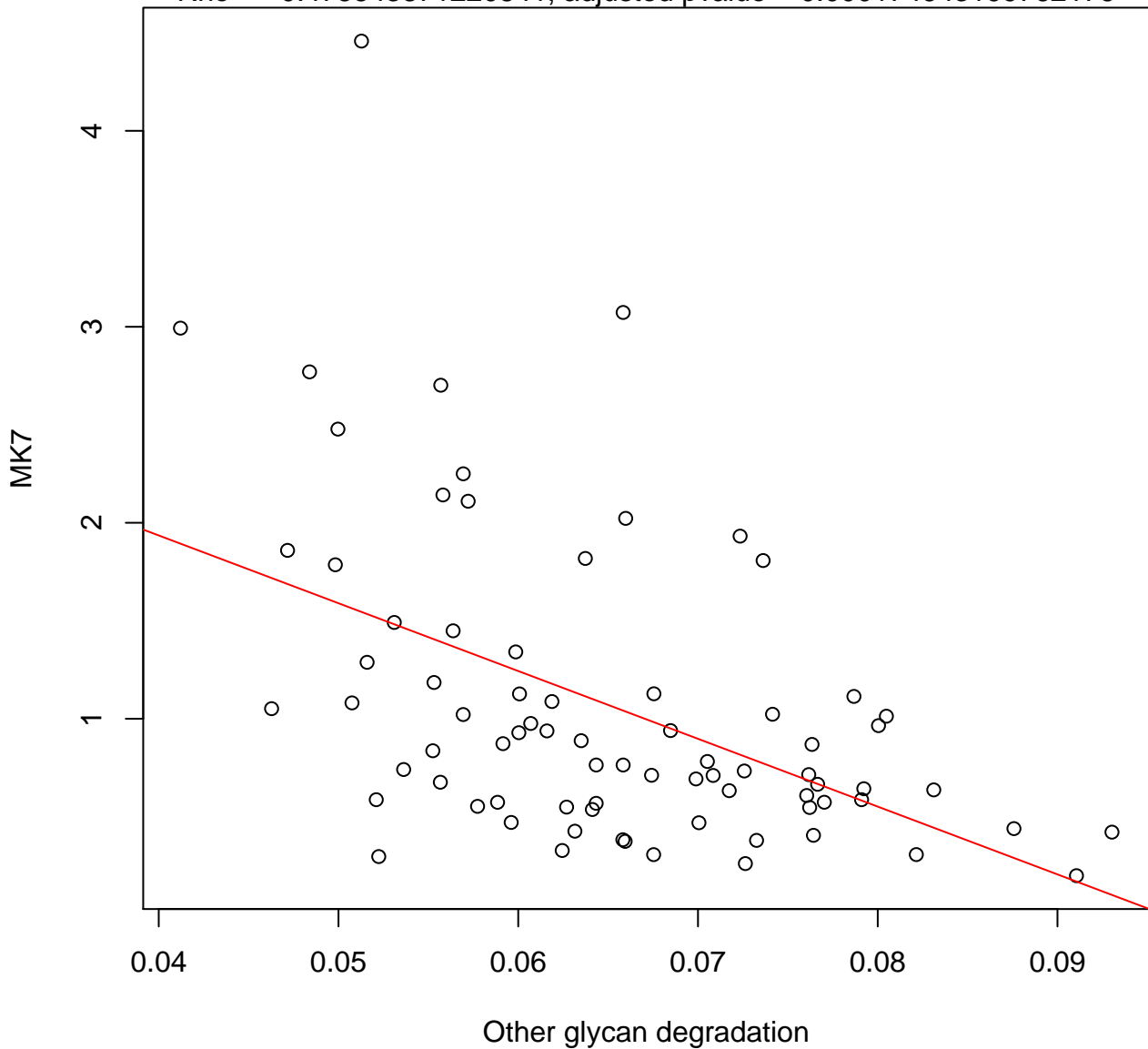
Timepoint 2 , MK7 ~ Lysine degradation

Rho = 0.215511008891442, adjusted pvalue = 0.0984742420453281



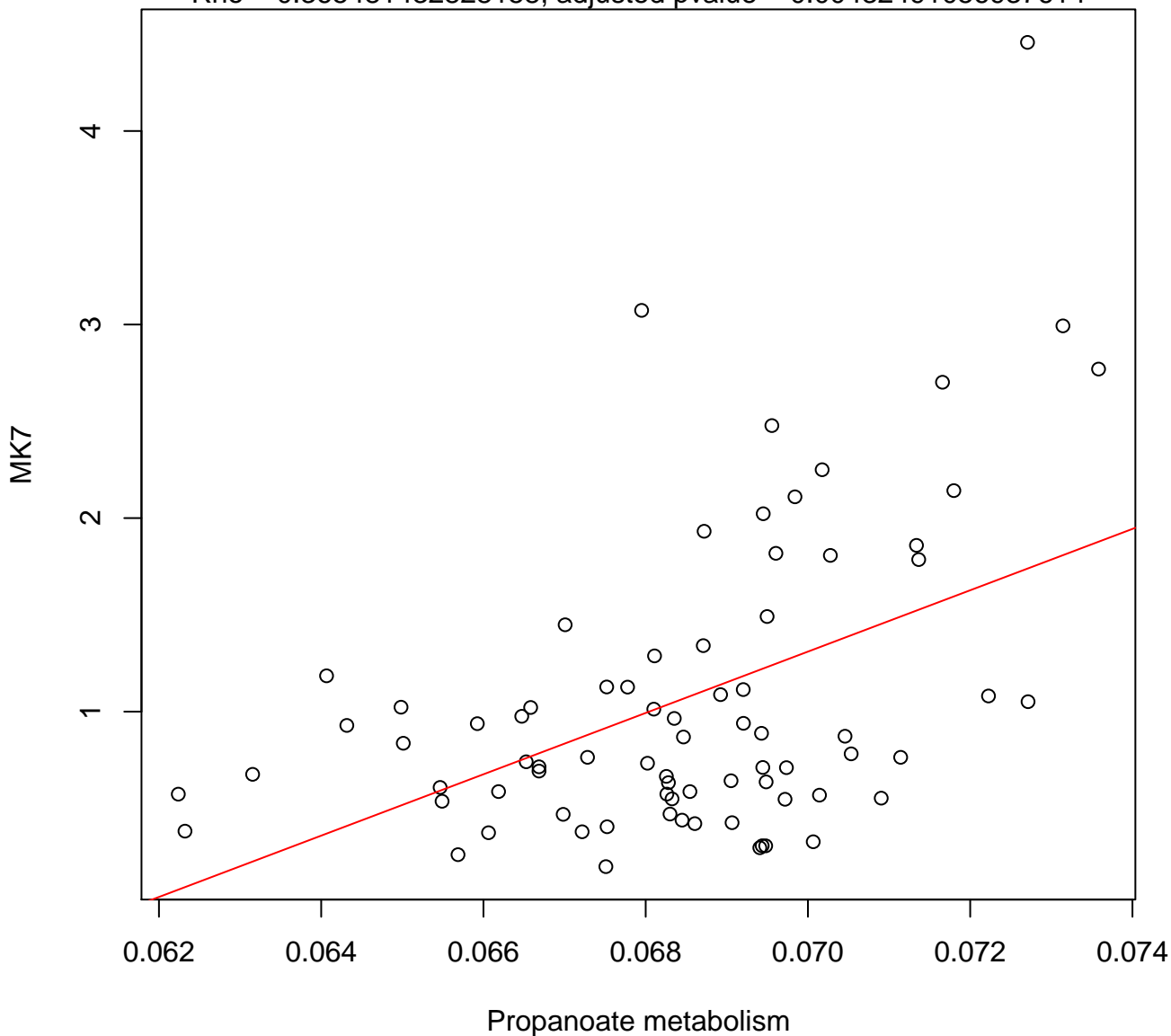
Timepoint 2 , MK7 ~ Other glycan degradation

Rho = -0.475543871220841 , adjusted pvalue = 0.000174643199762176



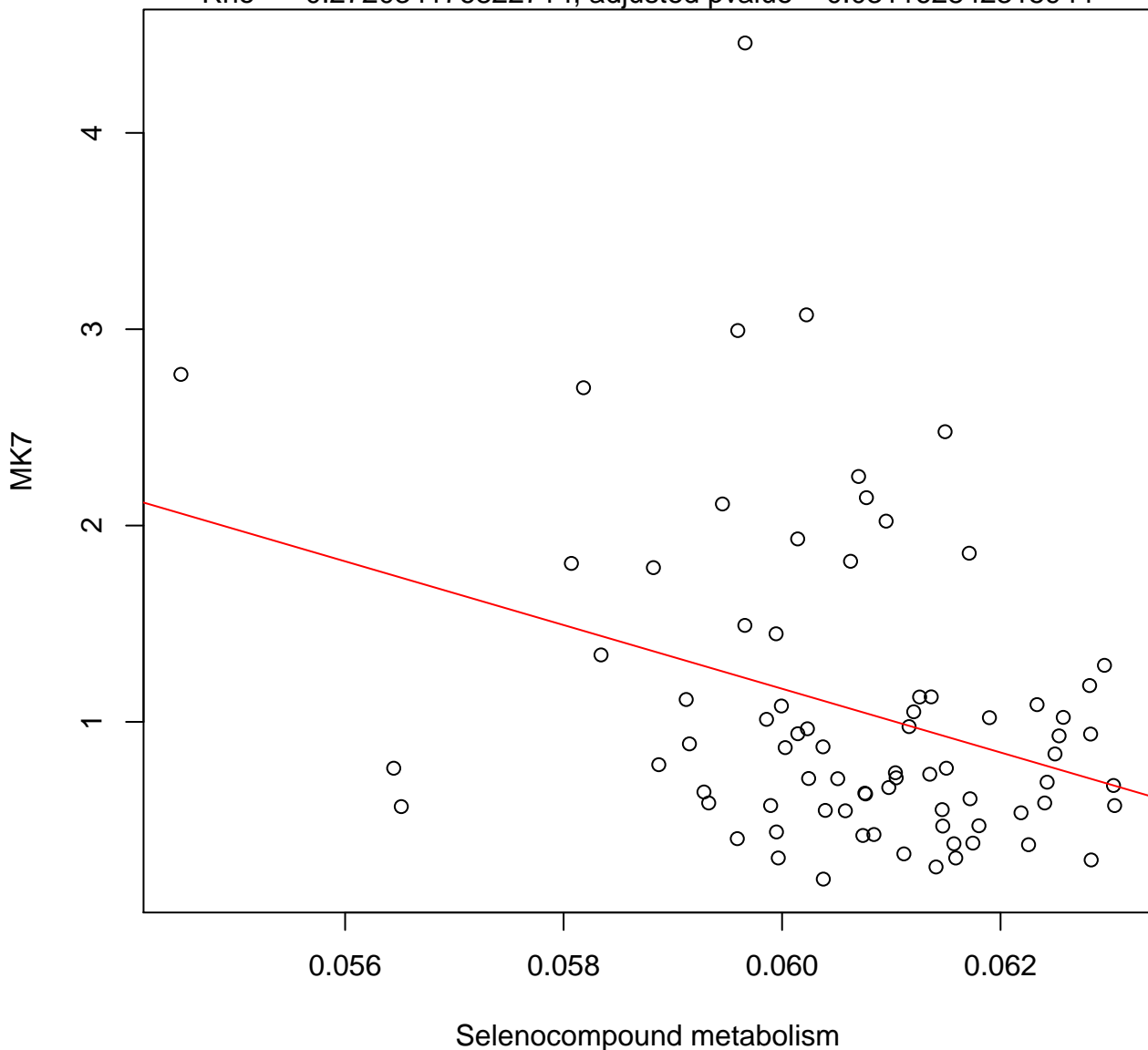
Timepoint 2 , MK7 ~ Propanoate metabolism

Rho = 0.365481432828158, adjusted pvalue = 0.00432491056937614



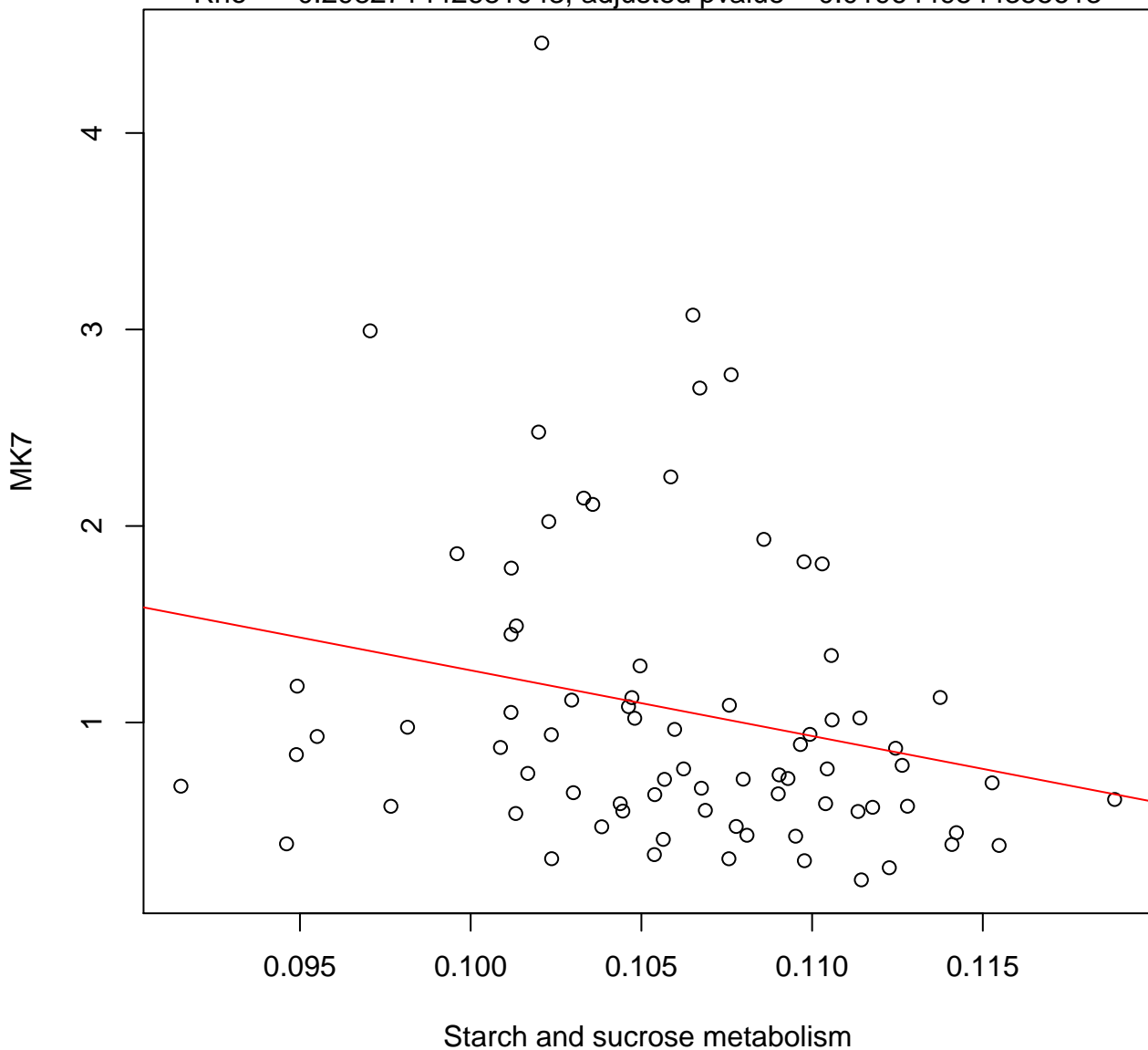
Timepoint 2 , MK7 ~ Selenocompound metabolism

Rho = -0.272034176822714, adjusted pvalue = 0.031162842315944



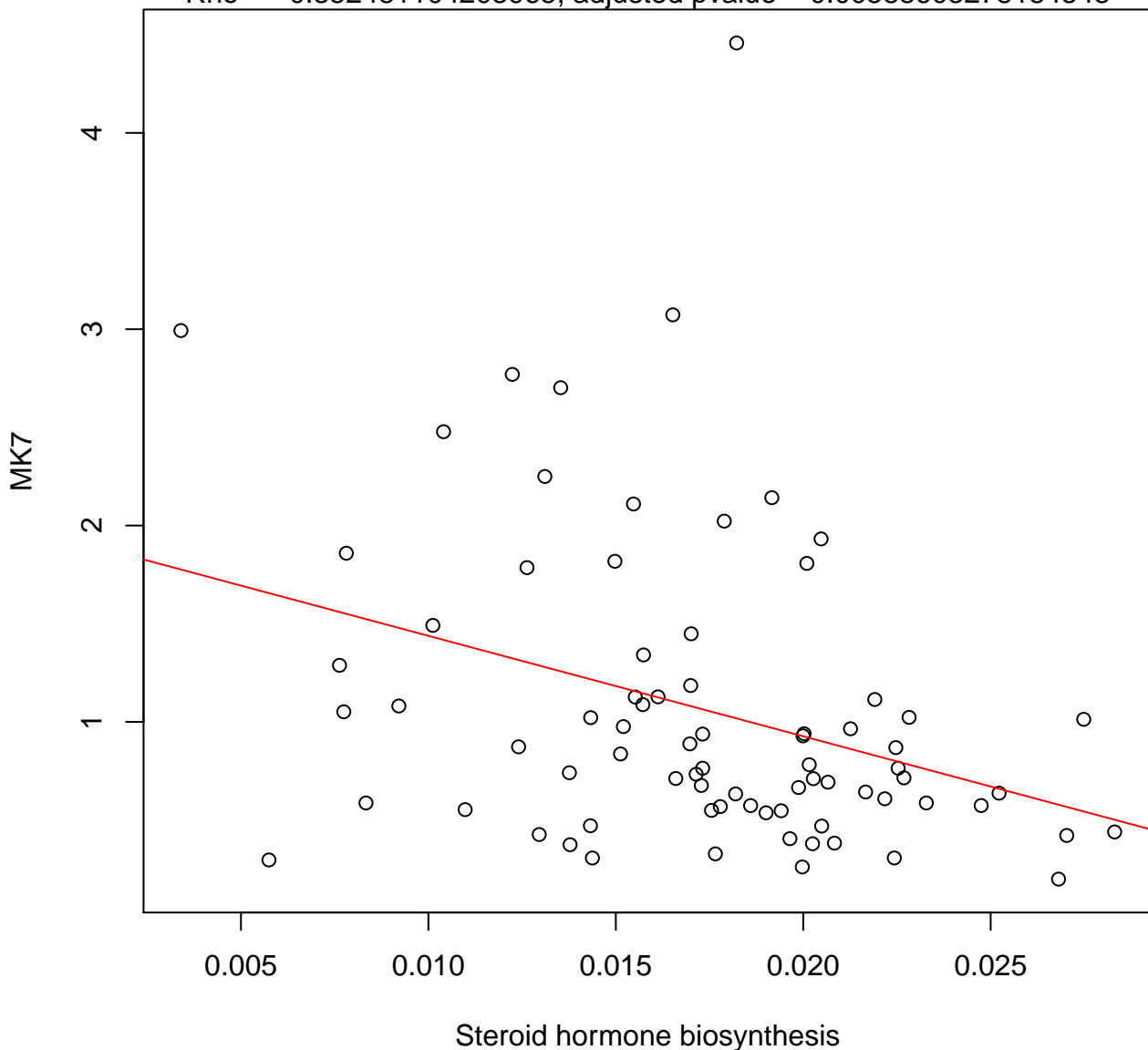
Timepoint 2 , MK7 ~ Starch and sucrose metabolism

Rho = -0.298271442681043 , adjusted pvalue = 0.0196449544355613



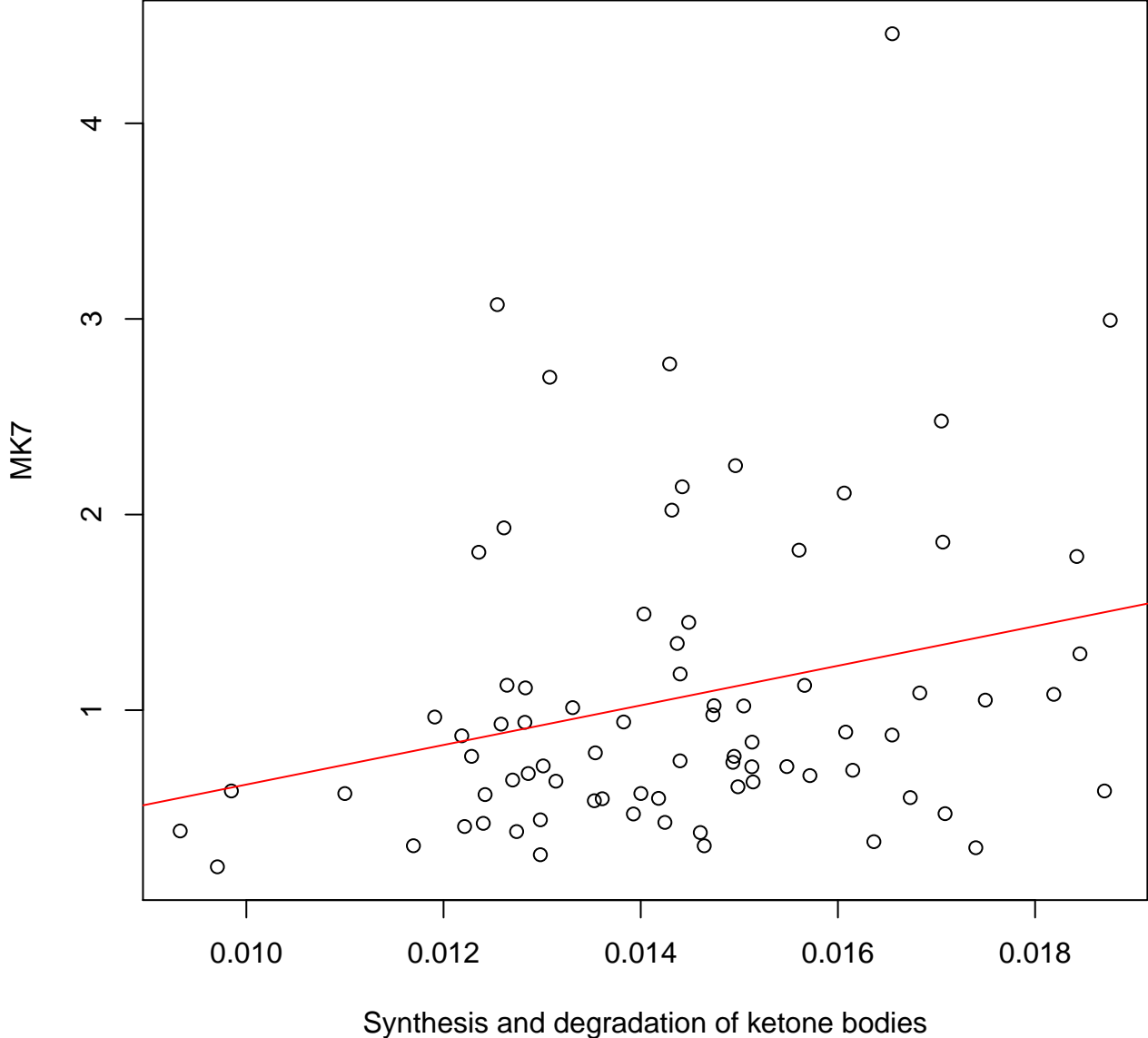
Timepoint 2 , MK7 ~ Steroid hormone biosynthesis

Rho = -0.352481104203965 , adjusted pvalue = 0.00588603278184548



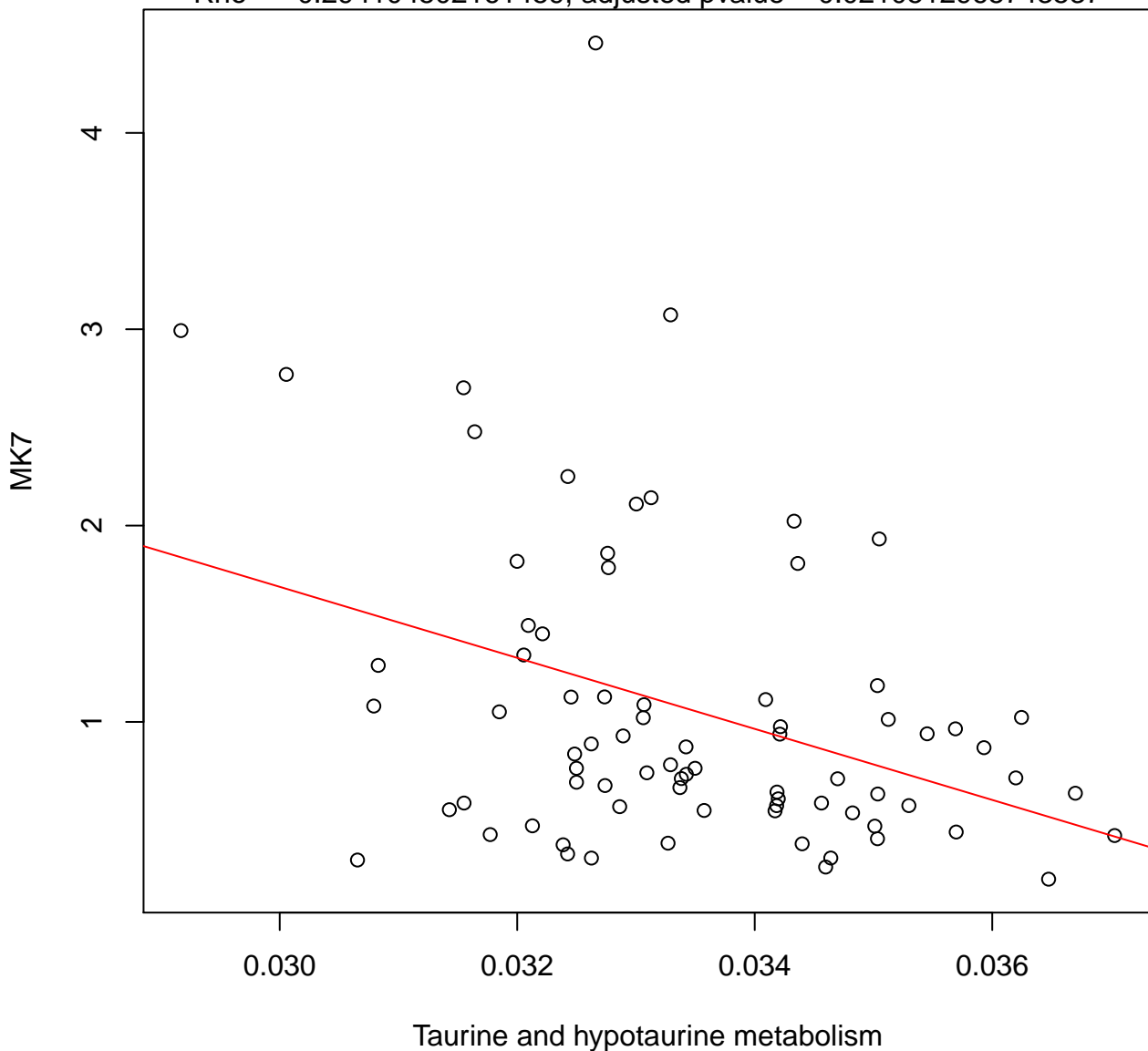
Timepoint 2 , MK7 ~ Synthesis and degradation of ketone bodies

Rho = 0.266118961574092, adjusted pvalue = 0.0348964685016374



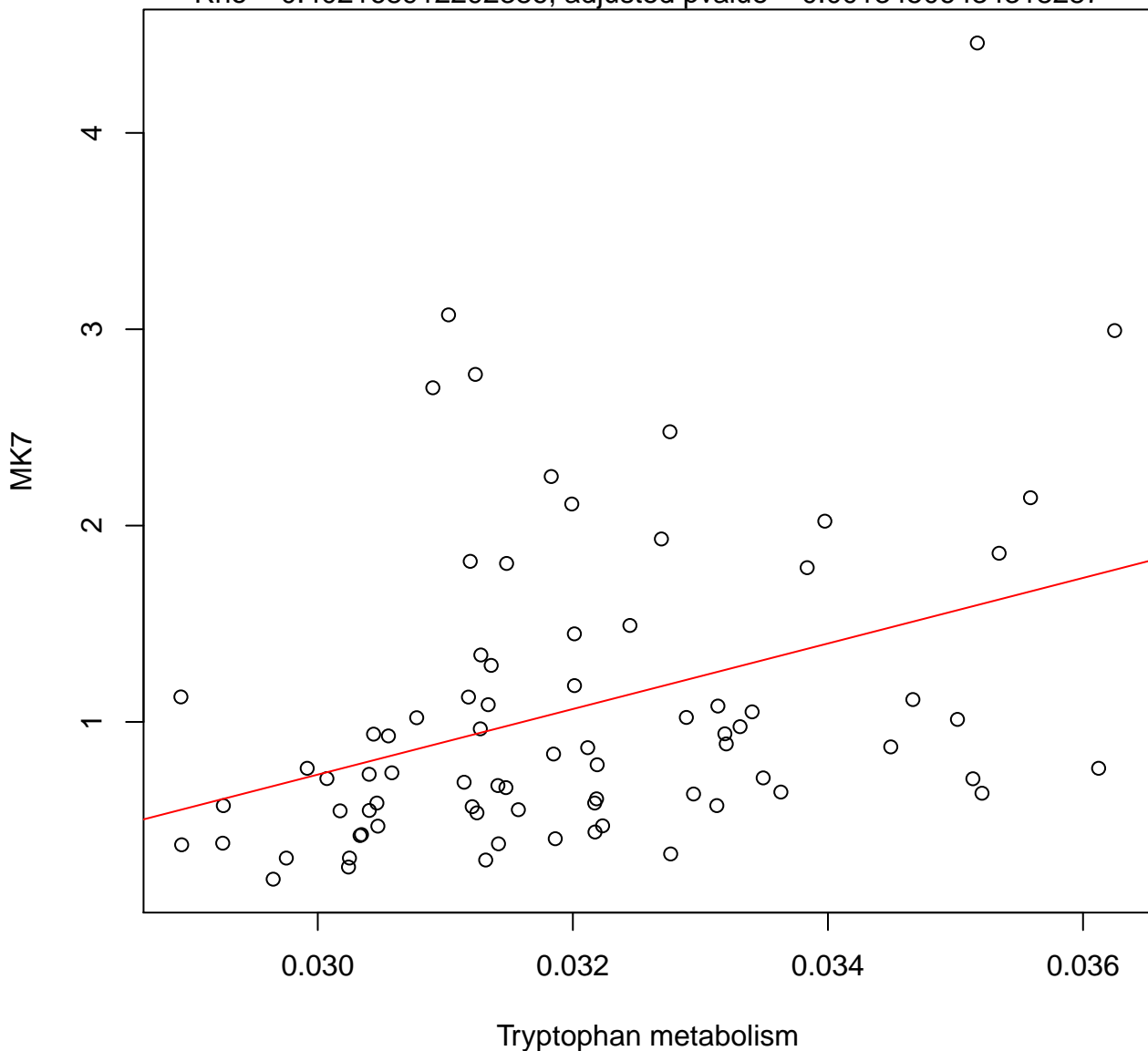
Timepoint 2 , MK7 ~ Taurine and hypotaurine metabolism

Rho = -0.294104502161459 , adjusted pvalue = 0.0210512965743537



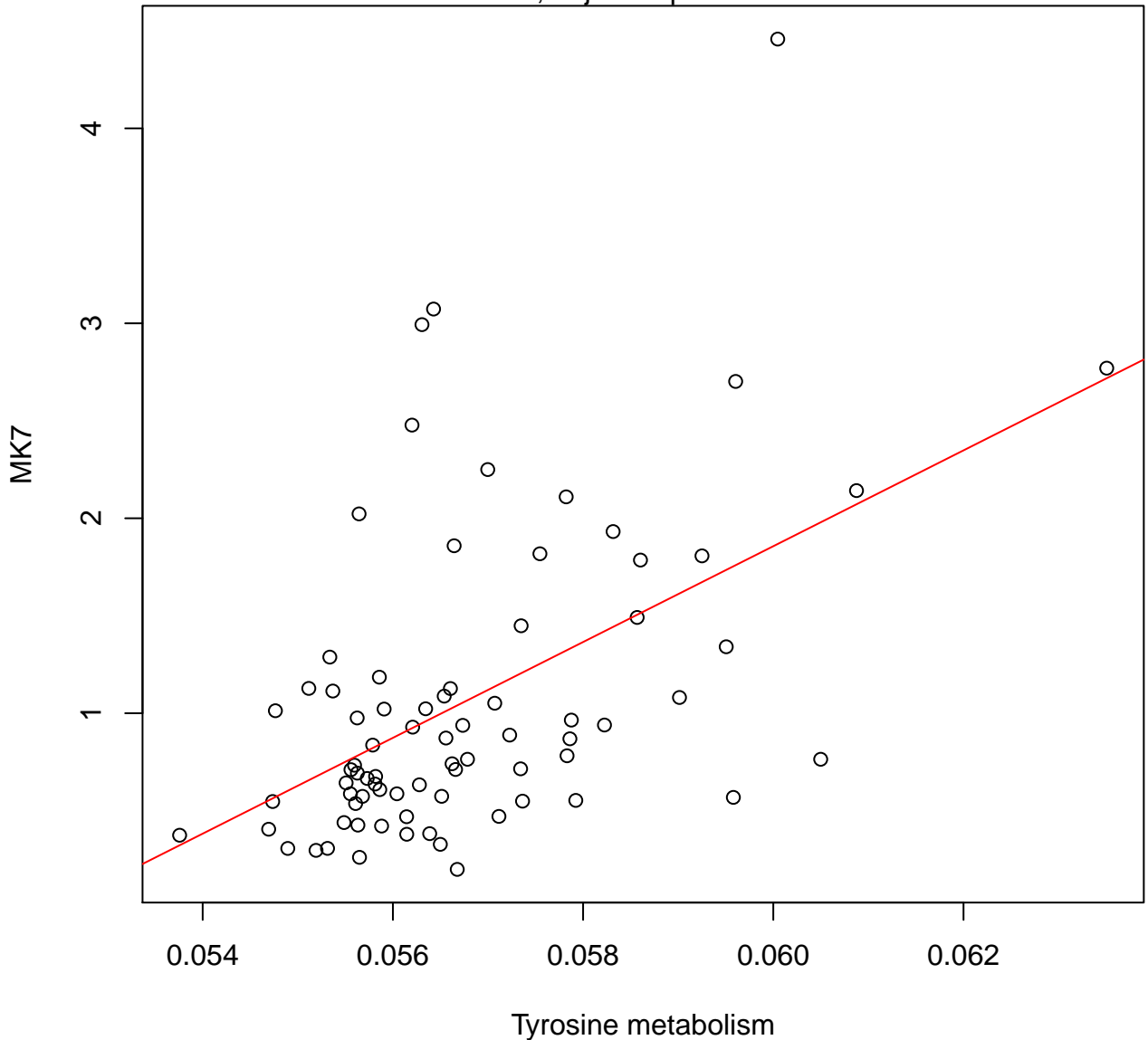
Timepoint 2 , MK7 ~ Tryptophan metabolism

Rho = 0.402168912292386, adjusted pvalue = 0.00134506434318287



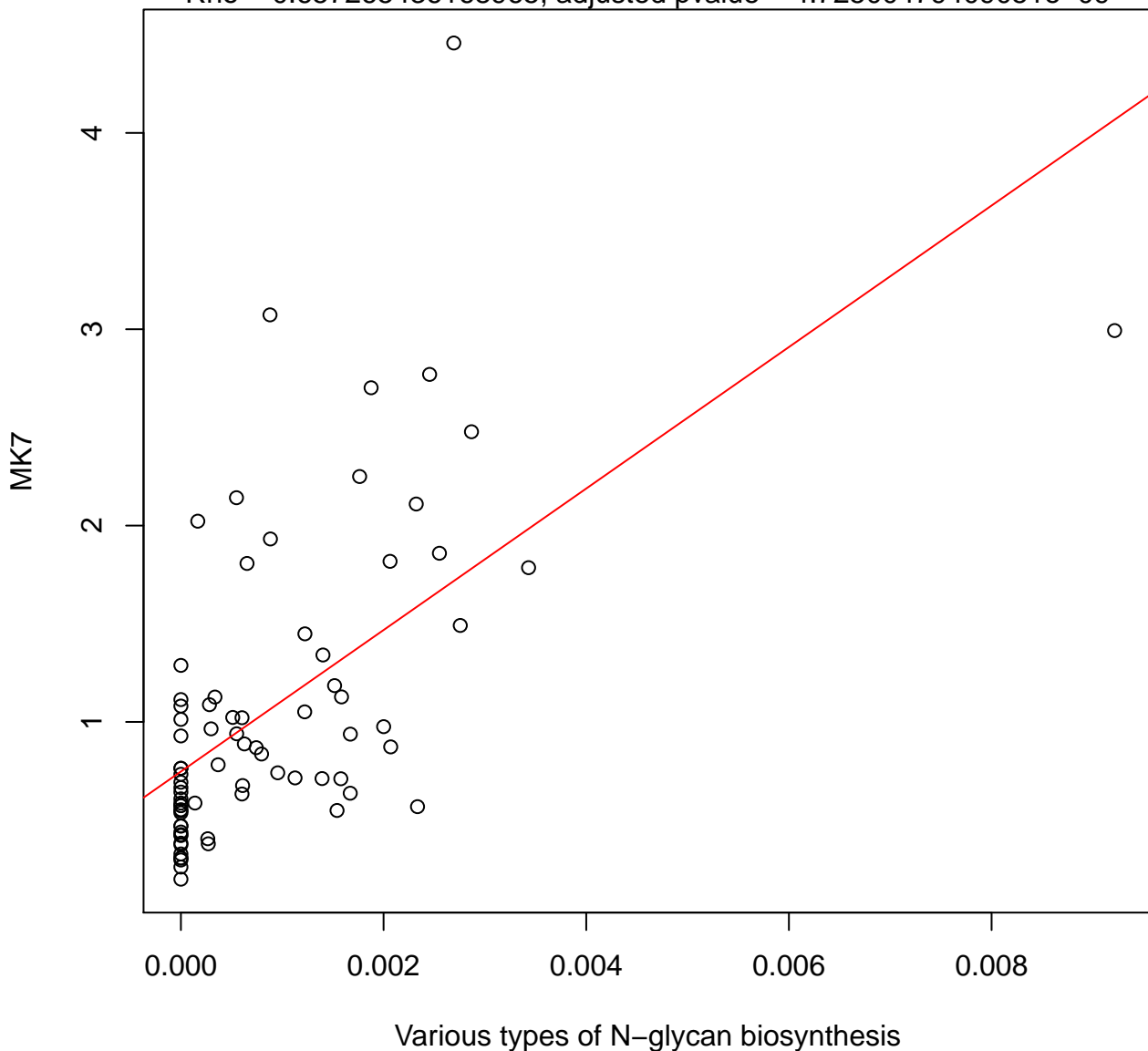
Timepoint 2 , MK7 ~ Tyrosine metabolism

Rho = 0.46940519228505, adjusted pvalue = 0.00018575842144565



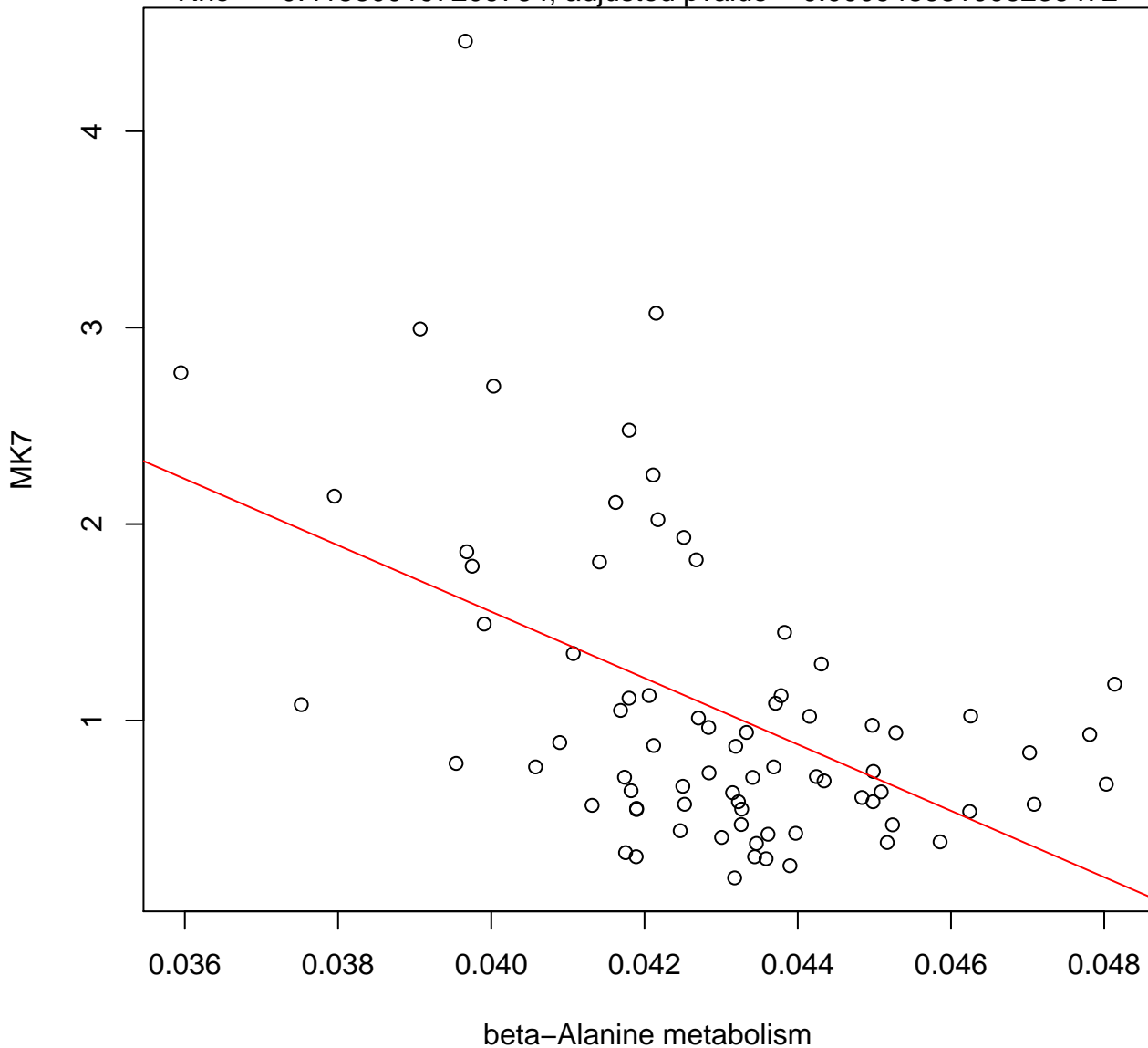
Timepoint 2 , MK7 ~ Various types of N-glycan biosynthesis

Rho = 0.657265436168965, adjusted pvalue = 4.72500479409051e-09



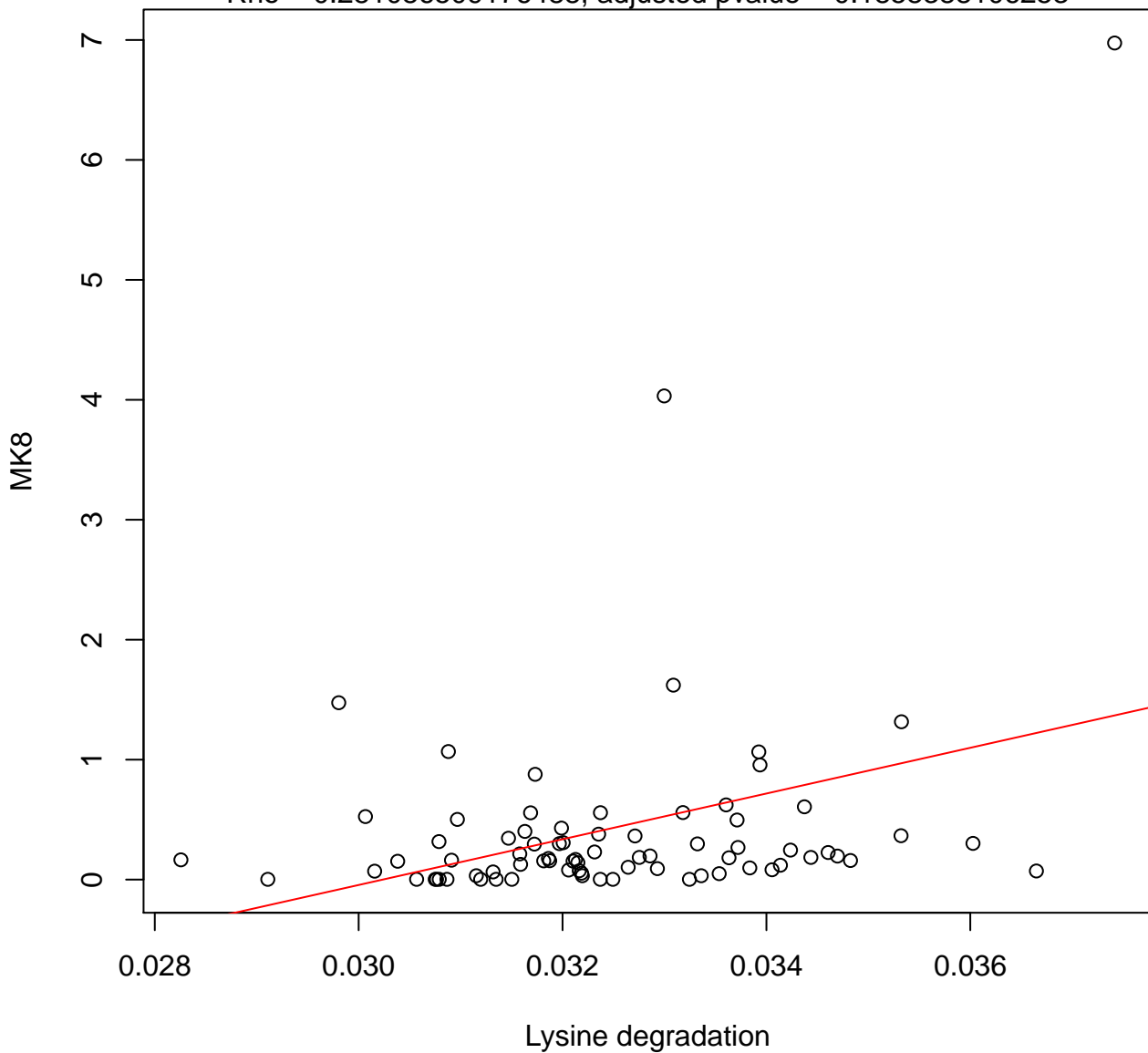
Timepoint 2 , MK7 ~ beta-Alanine metabolism

Rho = -0.415800197209764, adjusted pvalue = 0.000948681006236472



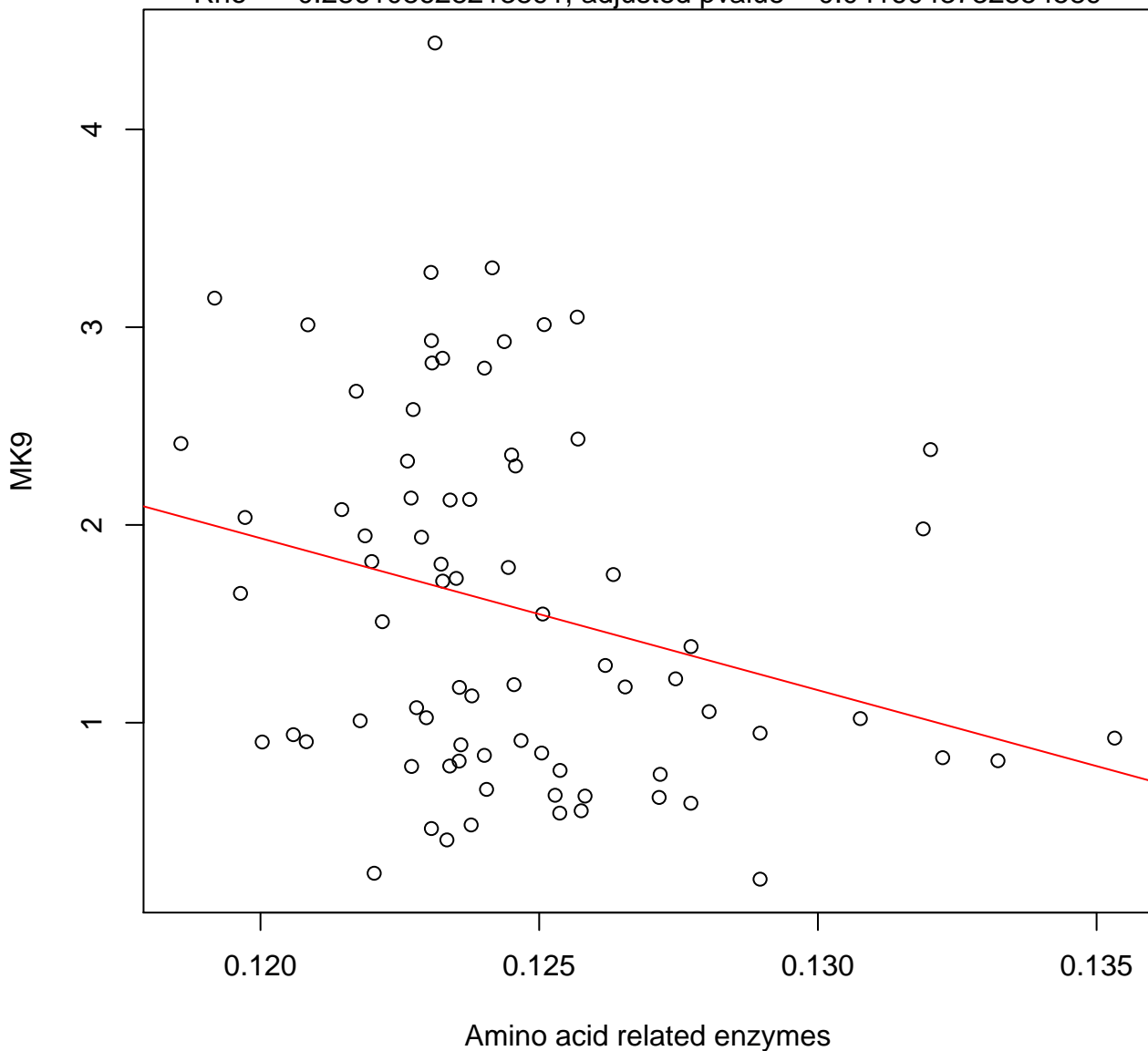
Timepoint 2 , MK8 ~ Lysine degradation

Rho = 0.281086509176488, adjusted pvalue = 0.1858388106253



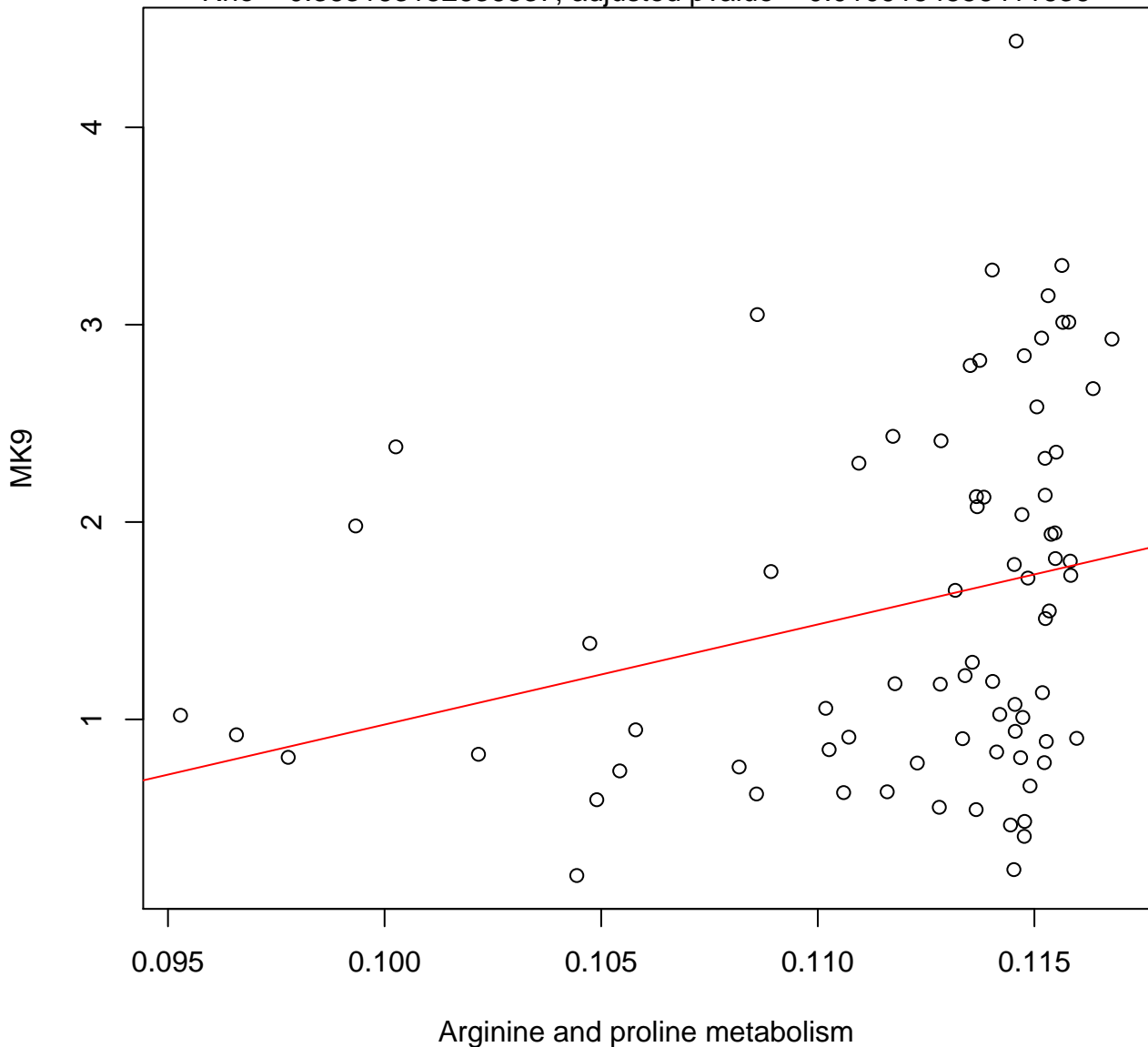
Timepoint 2 , MK9 ~ Amino acid related enzymes

Rho = -0.286108628213891 , adjusted pvalue = 0.0416043732554589



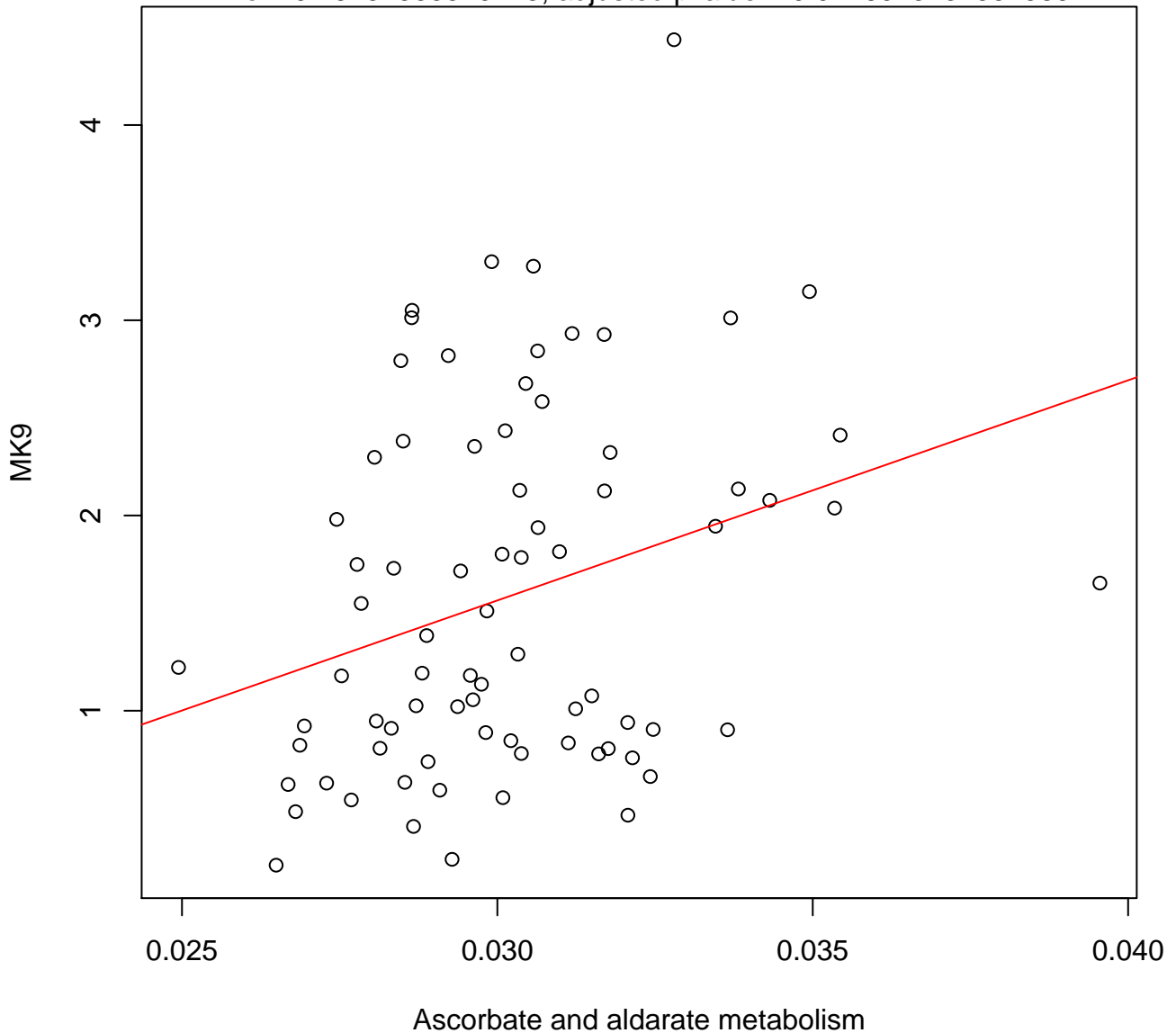
Timepoint 2 , MK9 ~ Arginine and proline metabolism

Rho = 0.363163152636837, adjusted pvalue = 0.0109154556411636



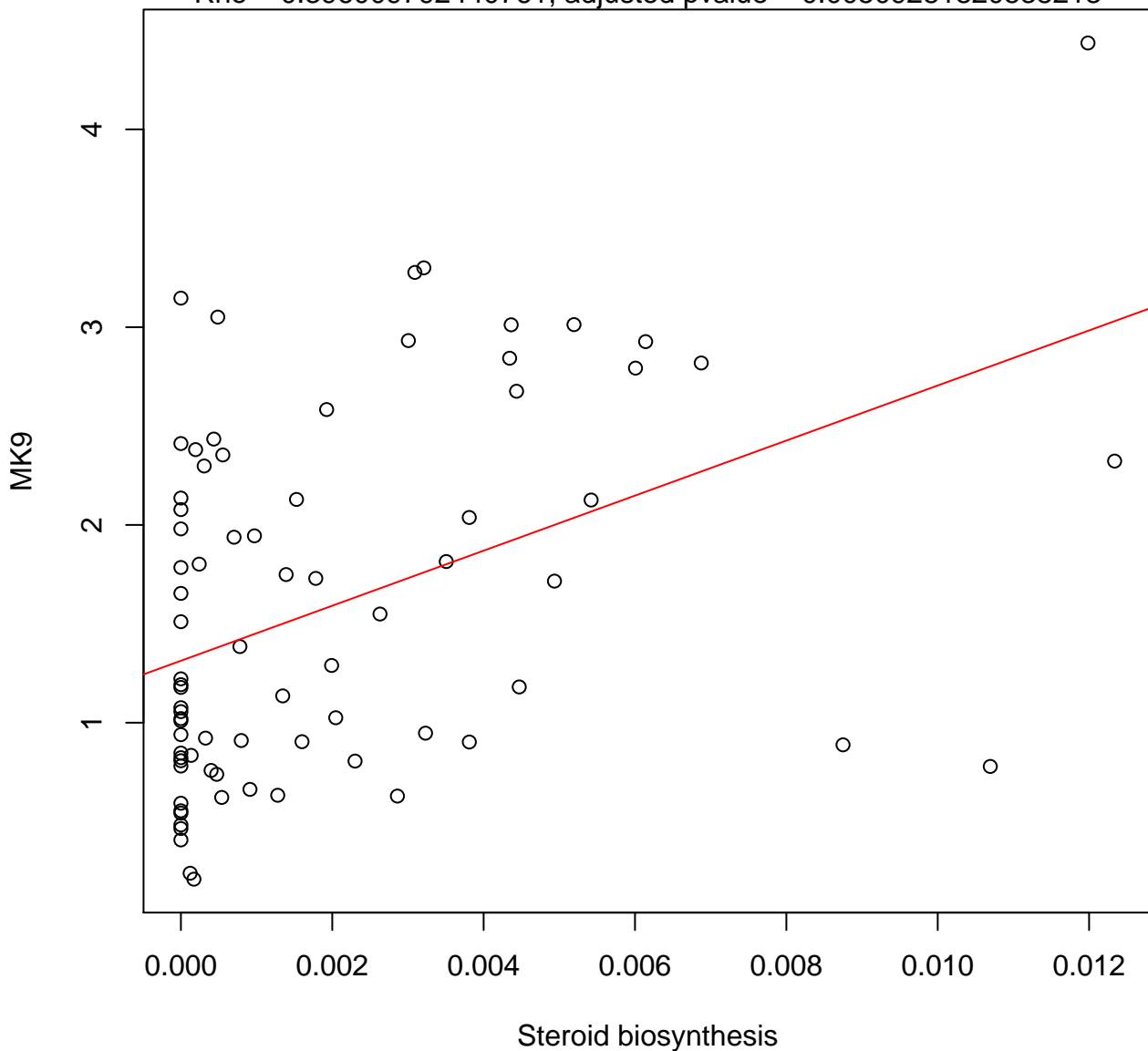
Timepoint 2 , MK9 ~ Ascorbate and aldarate metabolism

Rho = 0.29254955570745, adjusted pvalue = 0.0416043732554589



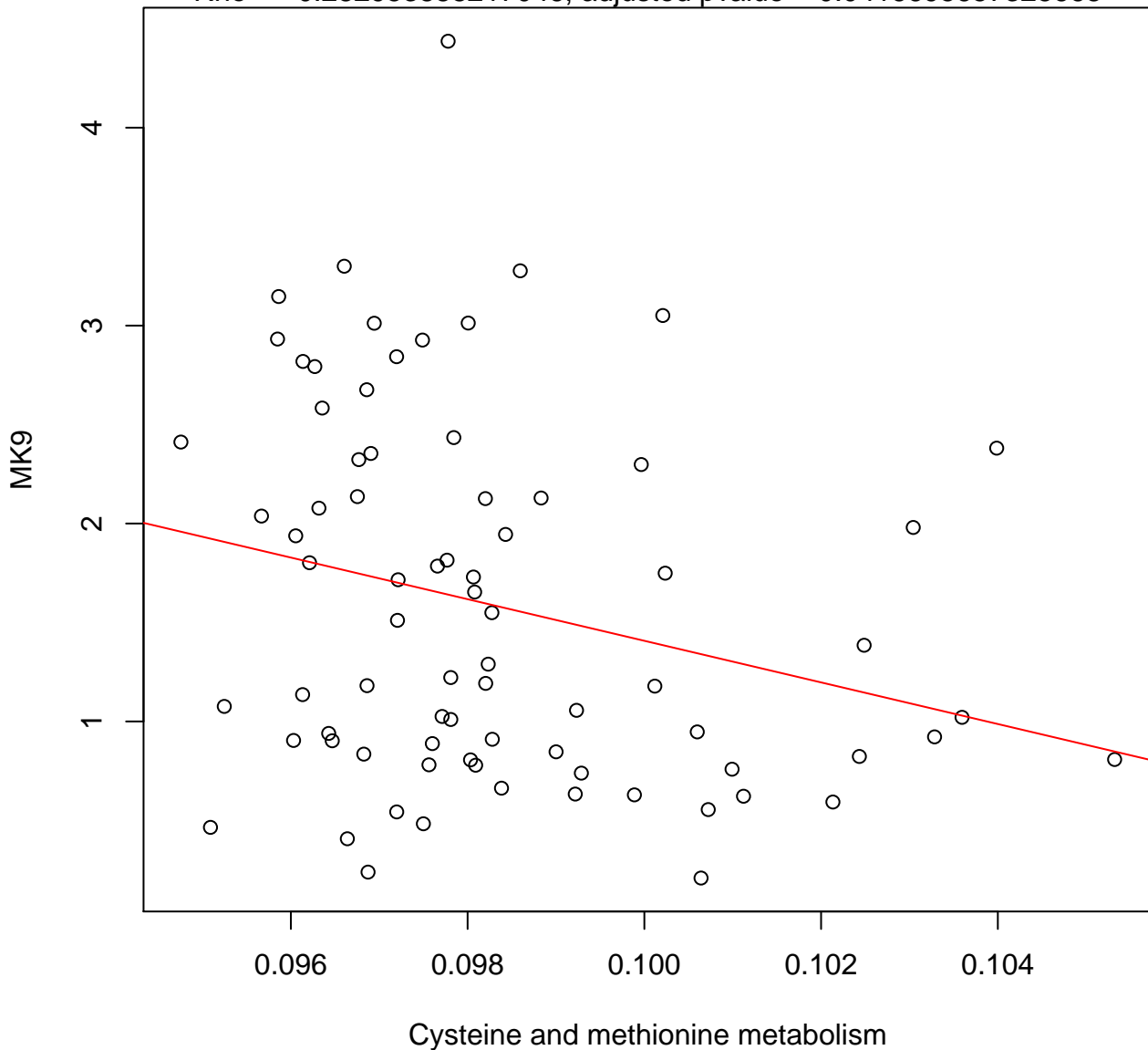
Timepoint 2 , MK9 ~ Steroid biosynthesis

Rho = 0.396009792440761, adjusted pvalue = 0.00509281820538213



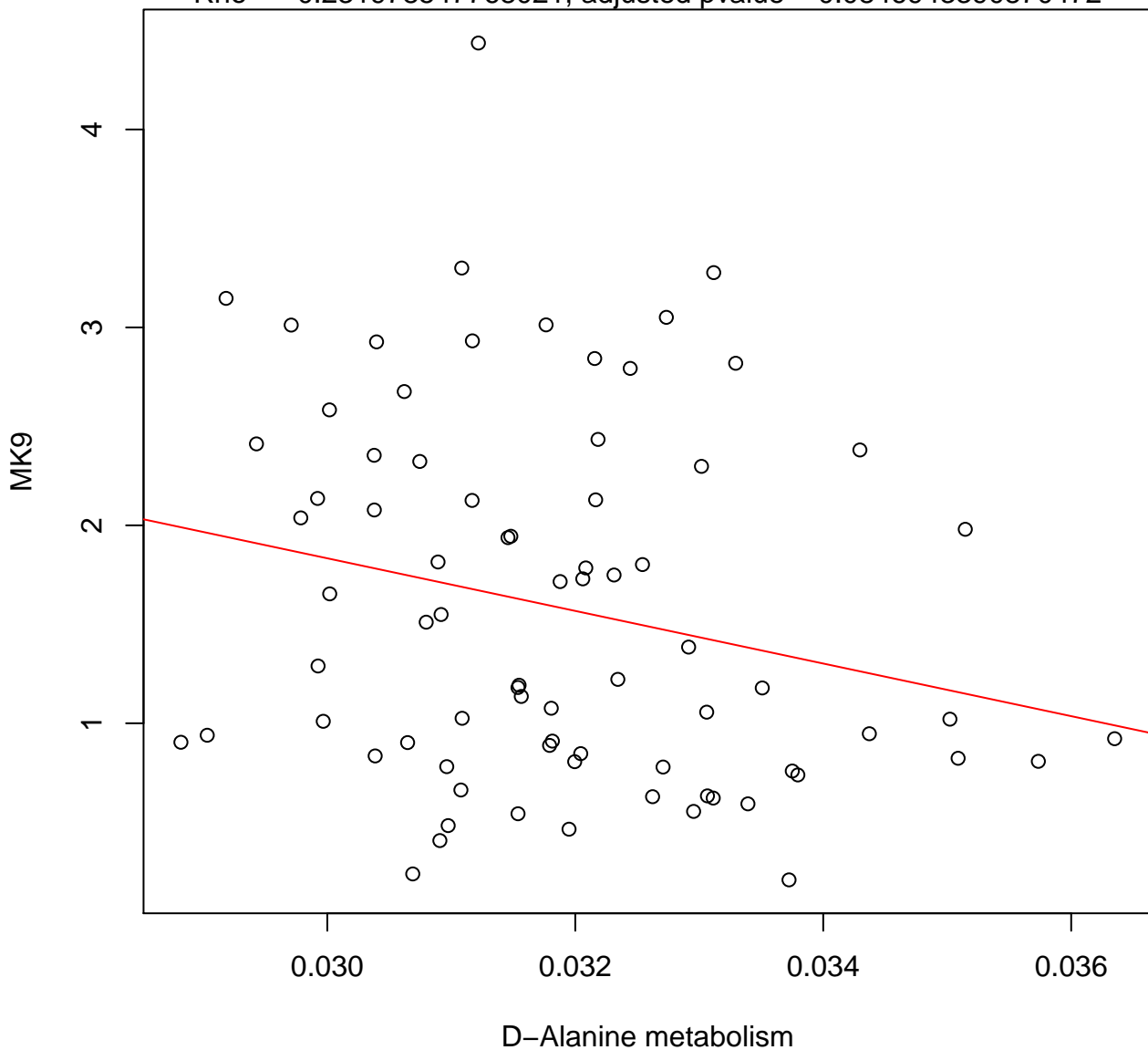
Timepoint 2 , MK9 ~ Cysteine and methionine metabolism

Rho = -0.282953888217046 , adjusted pvalue = 0.0416695657325668



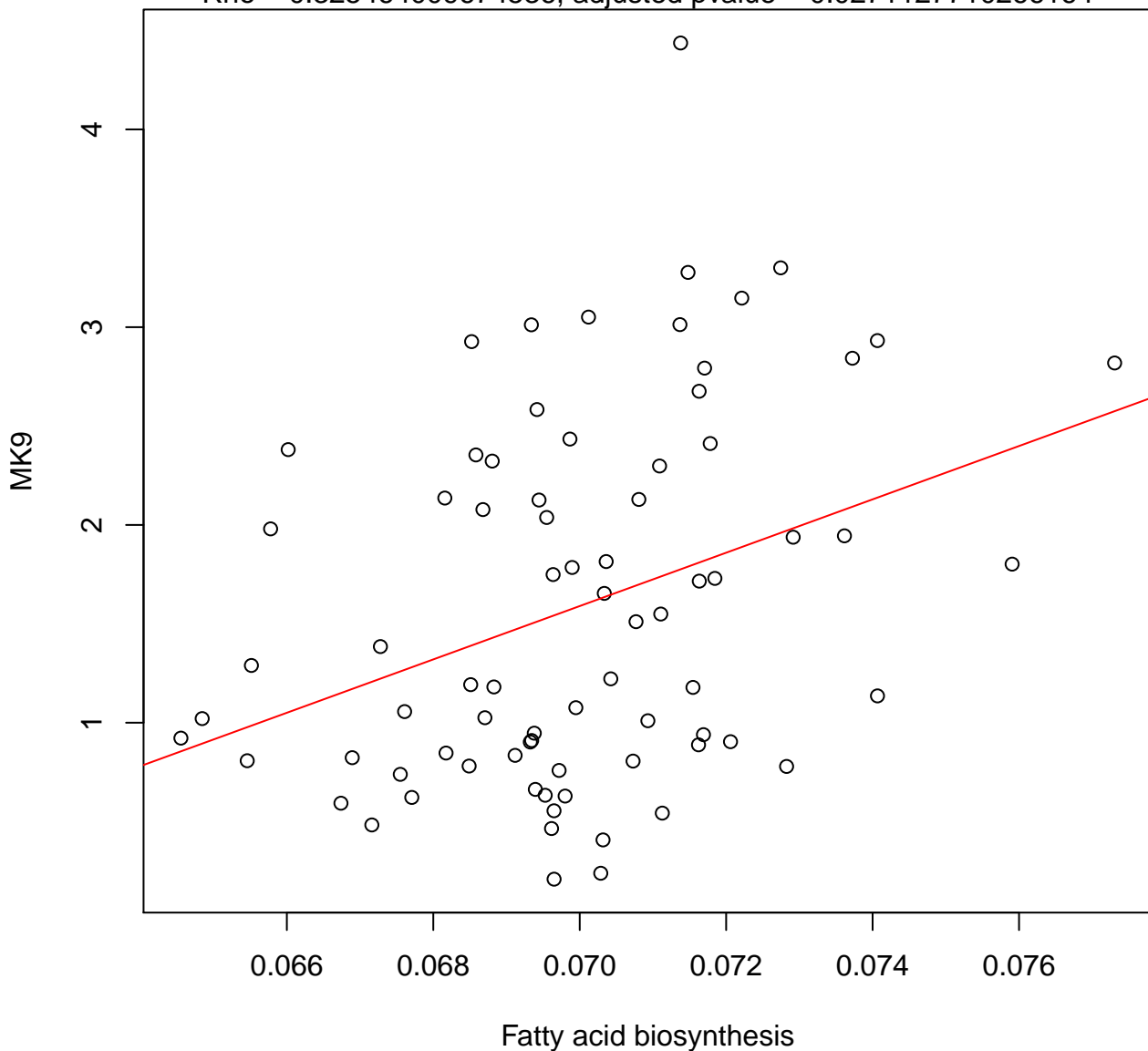
Timepoint 2 , MK9 ~ D-Alanine metabolism

Rho = -0.231978547768021 , adjusted pvalue = 0.0846943390870472



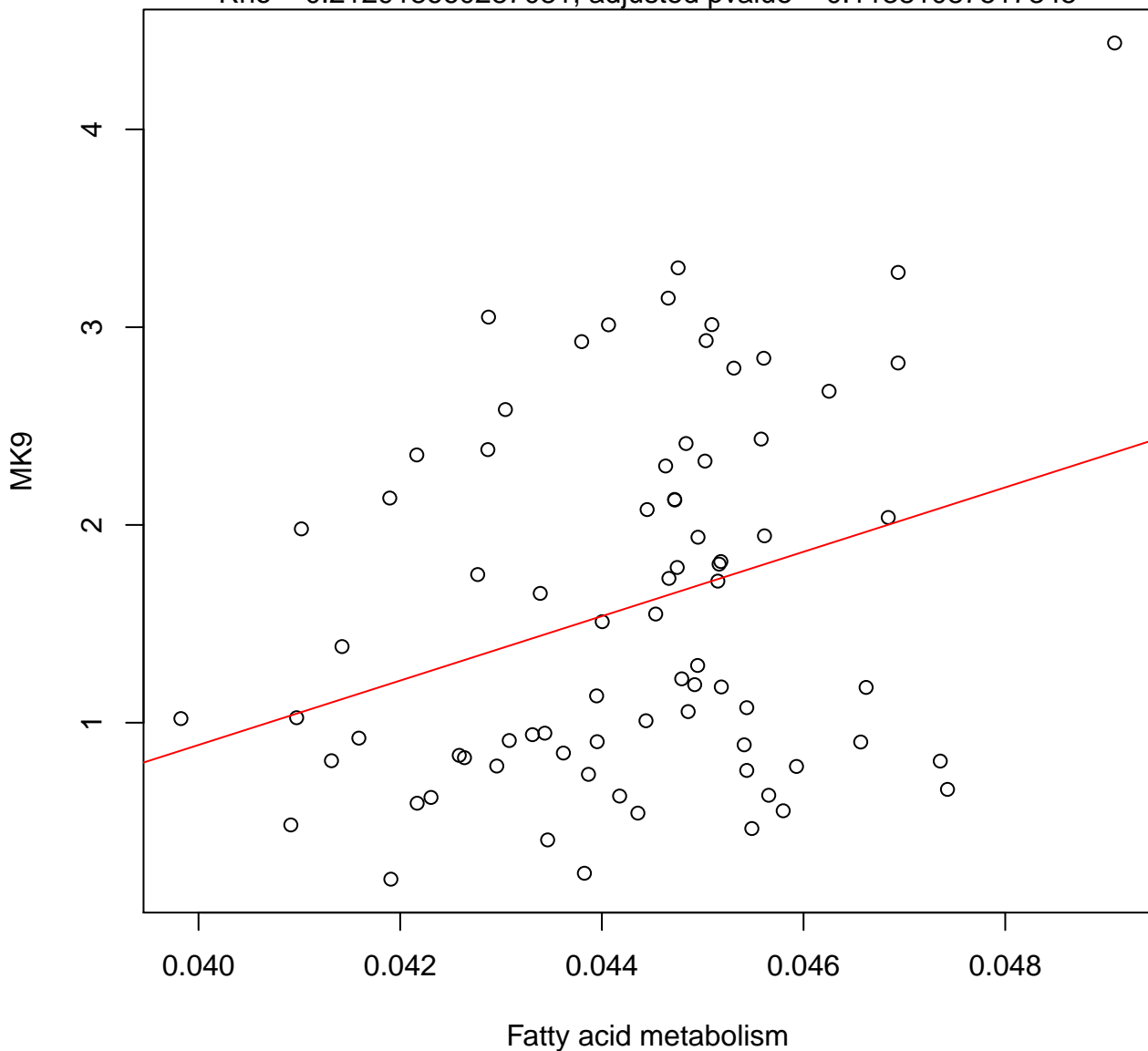
Timepoint 2 , MK9 ~ Fatty acid biosynthesis

Rho = 0.325464009674536, adjusted pvalue = 0.0271127710266164



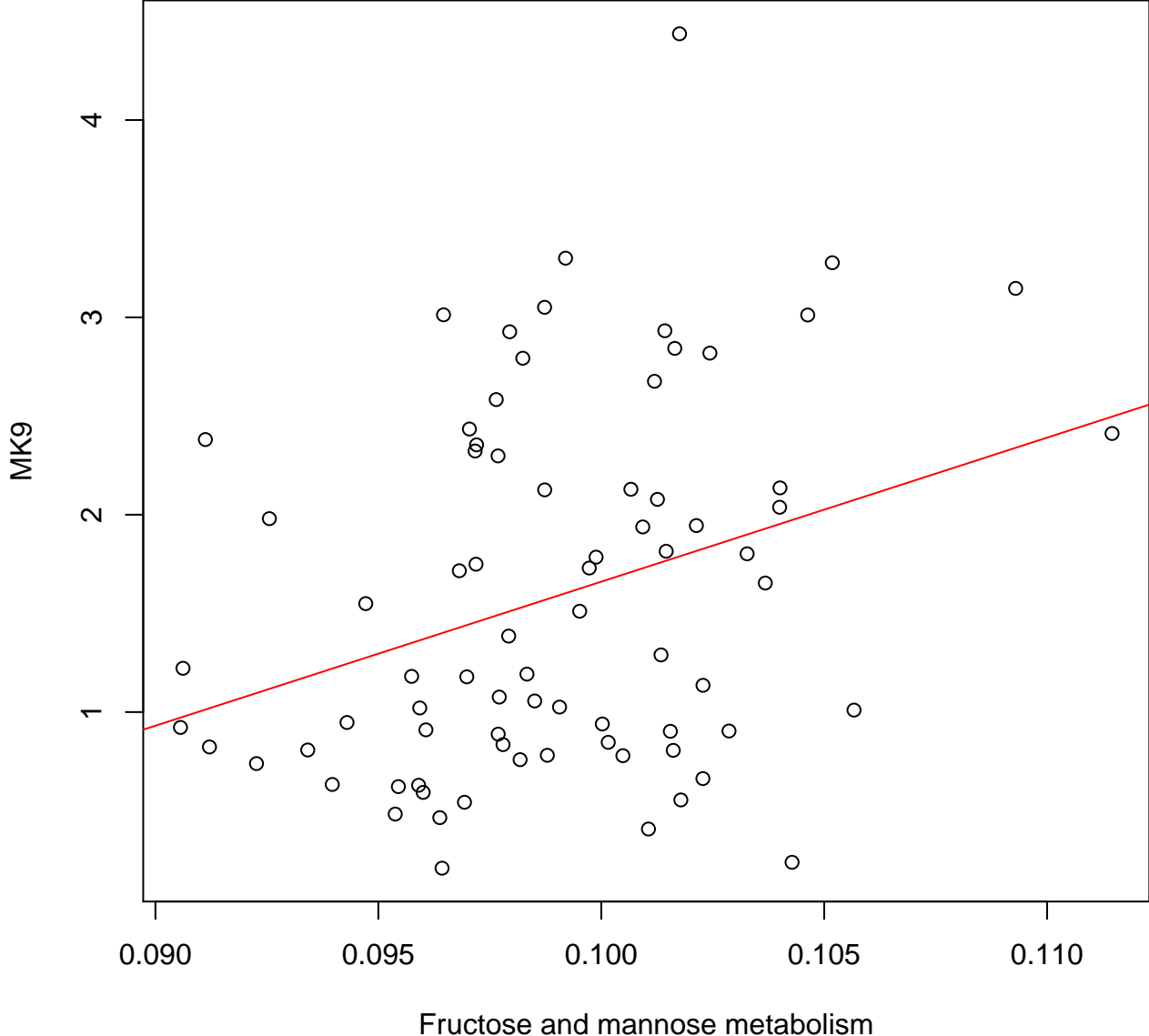
Timepoint 2 , MK9 ~ Fatty acid metabolism

Rho = 0.212918660287081, adjusted pvalue = 0.11381087517345



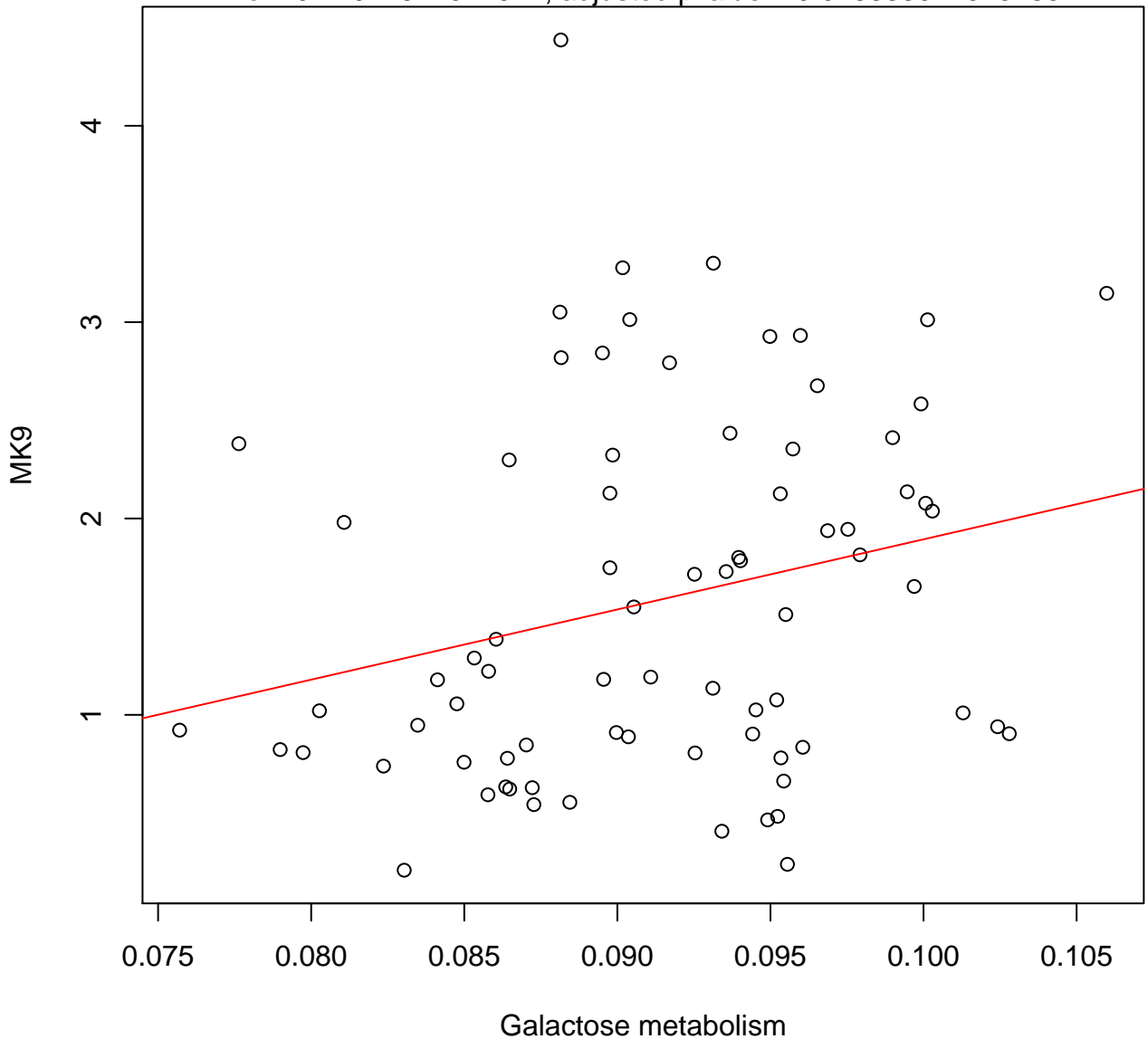
Timepoint 2 , MK9 ~ Fructose and mannose metabolism

Rho = 0.304905620695094, adjusted pvalue = 0.0392639430676296



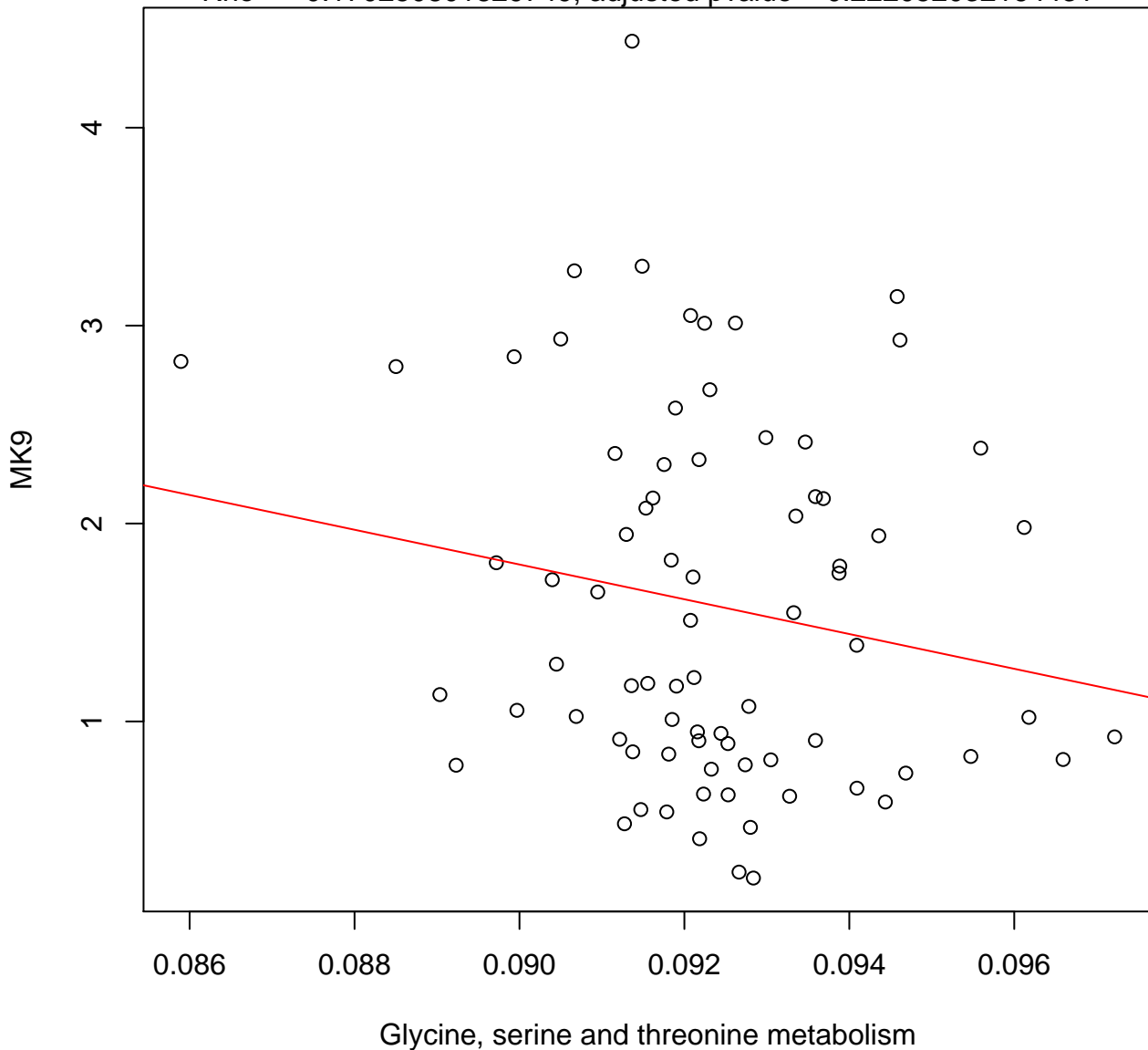
Timepoint 2 , MK9 ~ Galactose metabolism

Rho = 0.27022977022977, adjusted pvalue = 0.0488880440137832



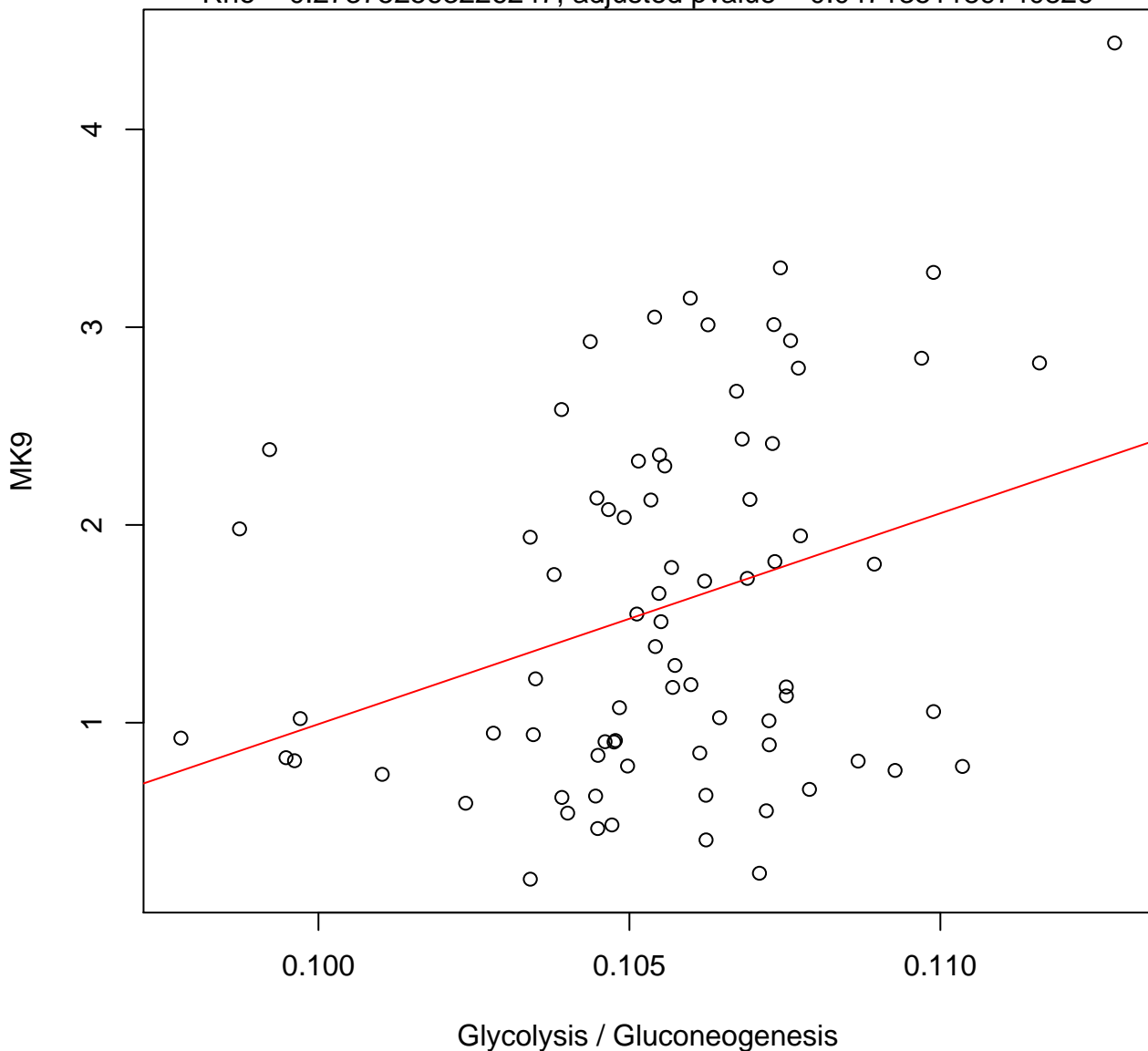
Timepoint 2 , MK9 ~ Glycine, serine and threonine metabolism

Rho = -0.170250801829749, adjusted pvalue = 0.222052032164431



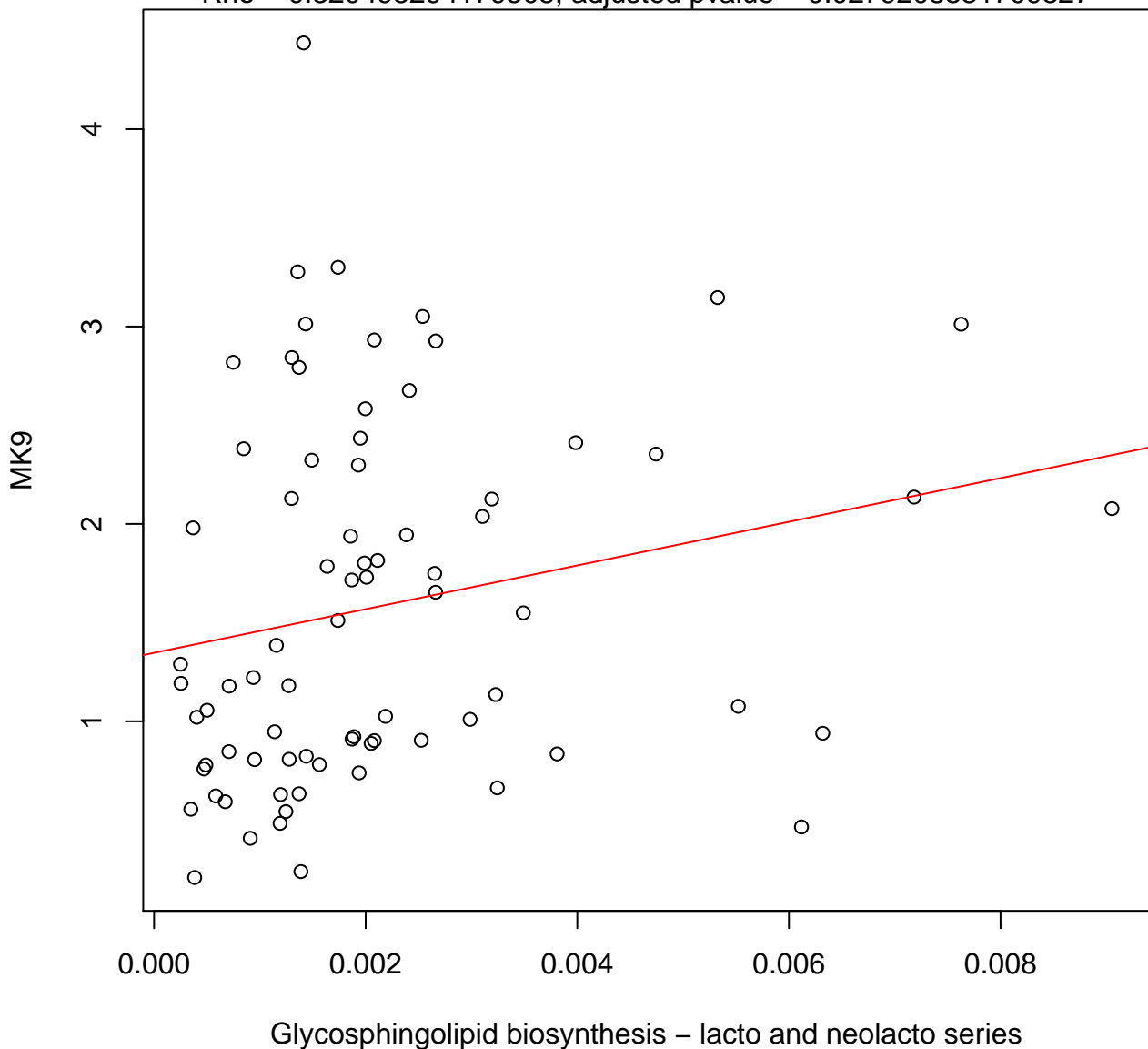
Timepoint 2 , MK9 ~ Glycolysis / Gluconeogenesis

Rho = 0.273752563226247, adjusted pvalue = 0.0471351189740826



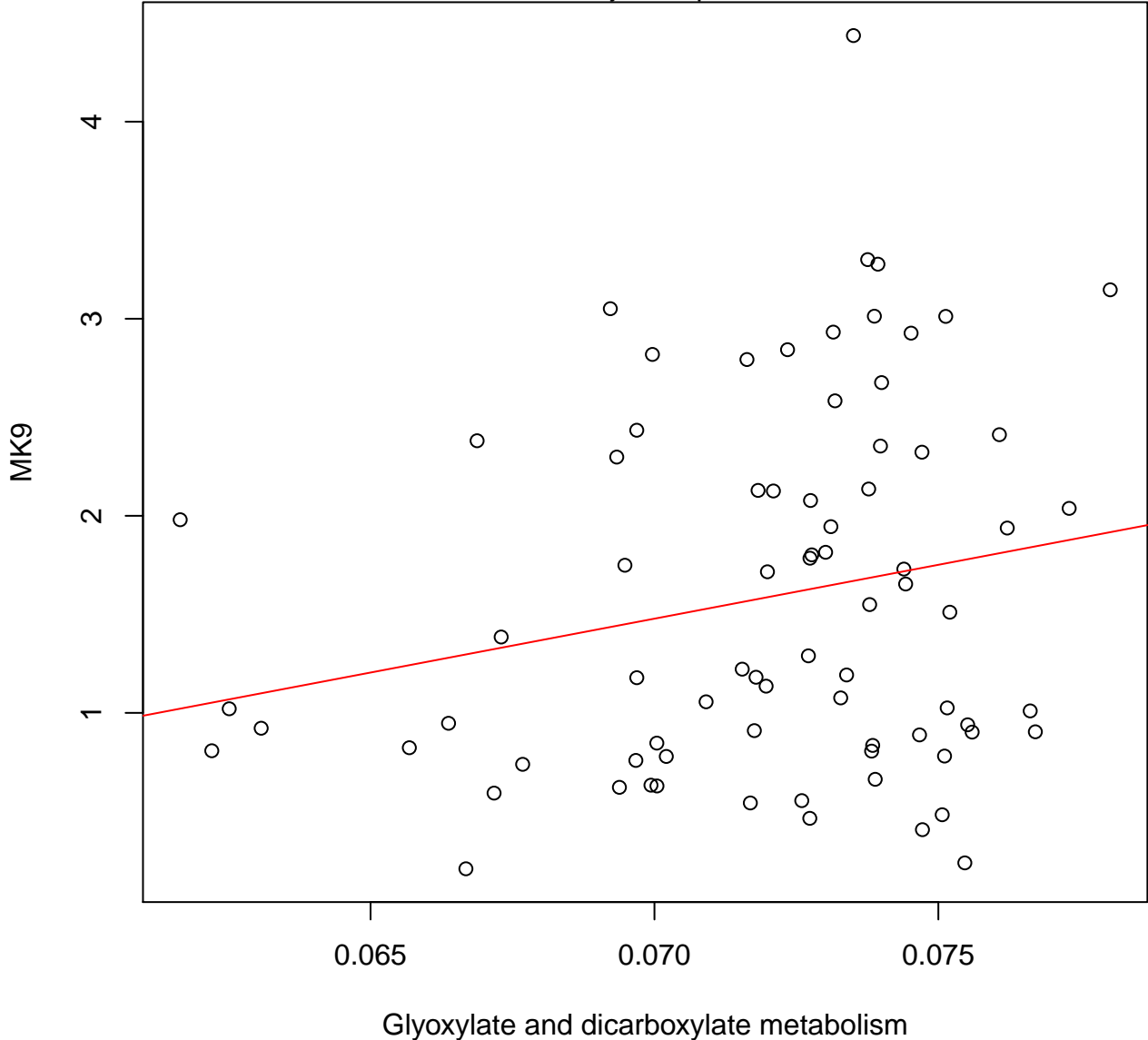
Timepoint 2 , MK9 ~ Glycosphingolipid biosynthesis – lacto and neolacto s

Rho = 0.320495294179505, adjusted pvalue = 0.0279208331709327



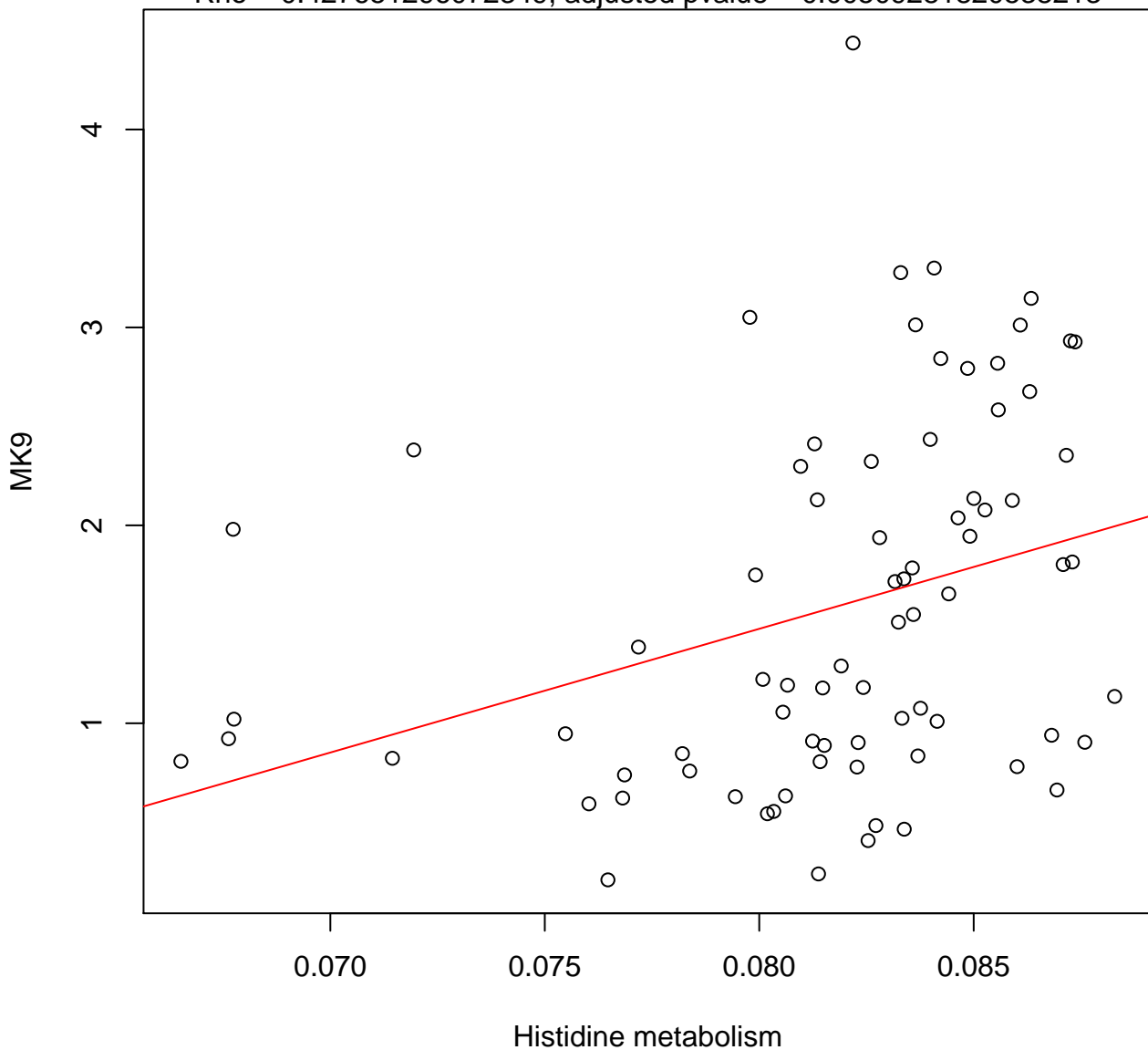
Timepoint 2 , MK9 ~ Glyoxylate and dicarboxylate metabolism

Rho = 0.168279089331721, adjusted pvalue = 0.223194679966142



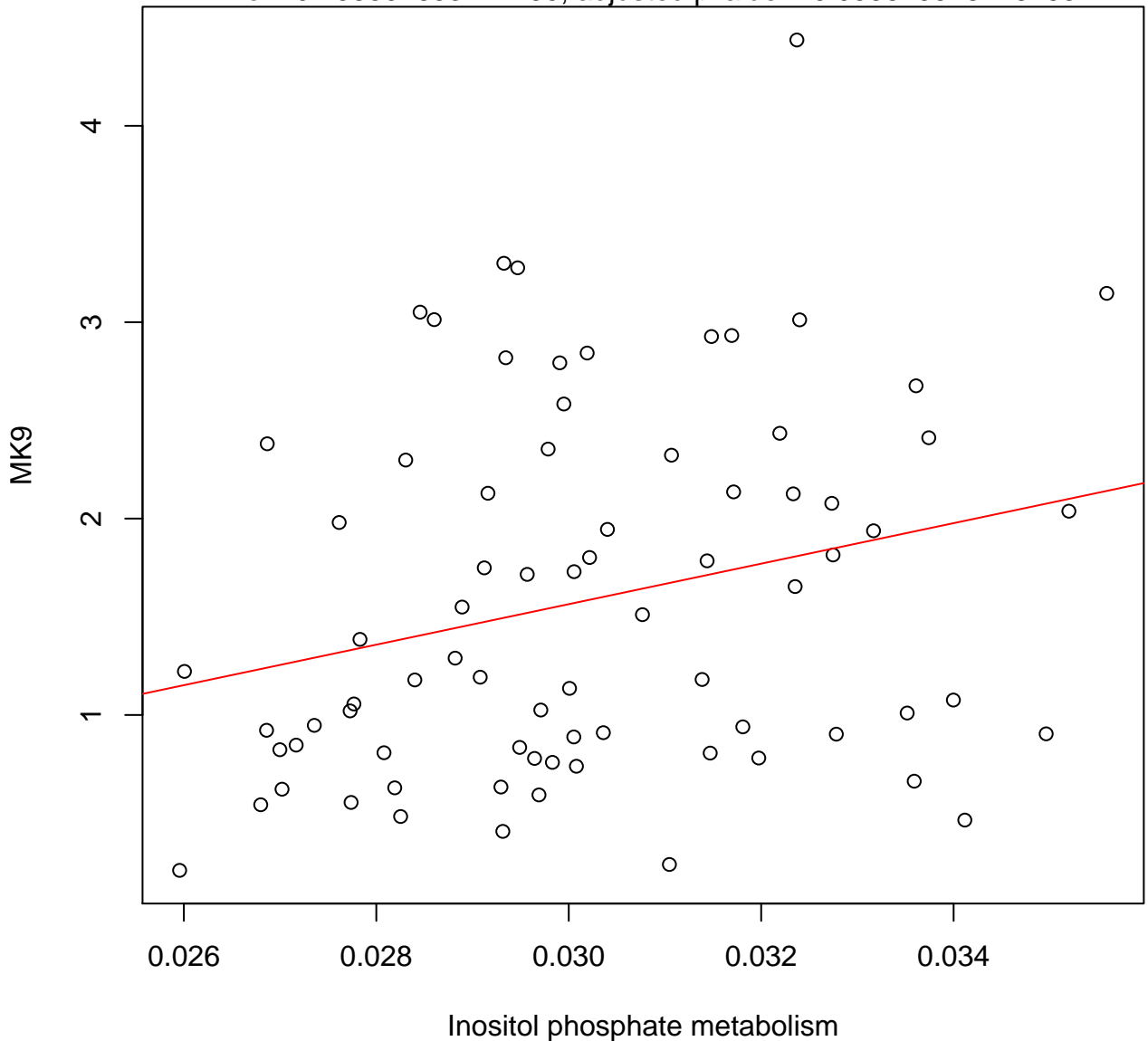
Timepoint 2 , MK9 ~ Histidine metabolism

Rho = 0.427651296072349, adjusted pvalue = 0.00509281820538213



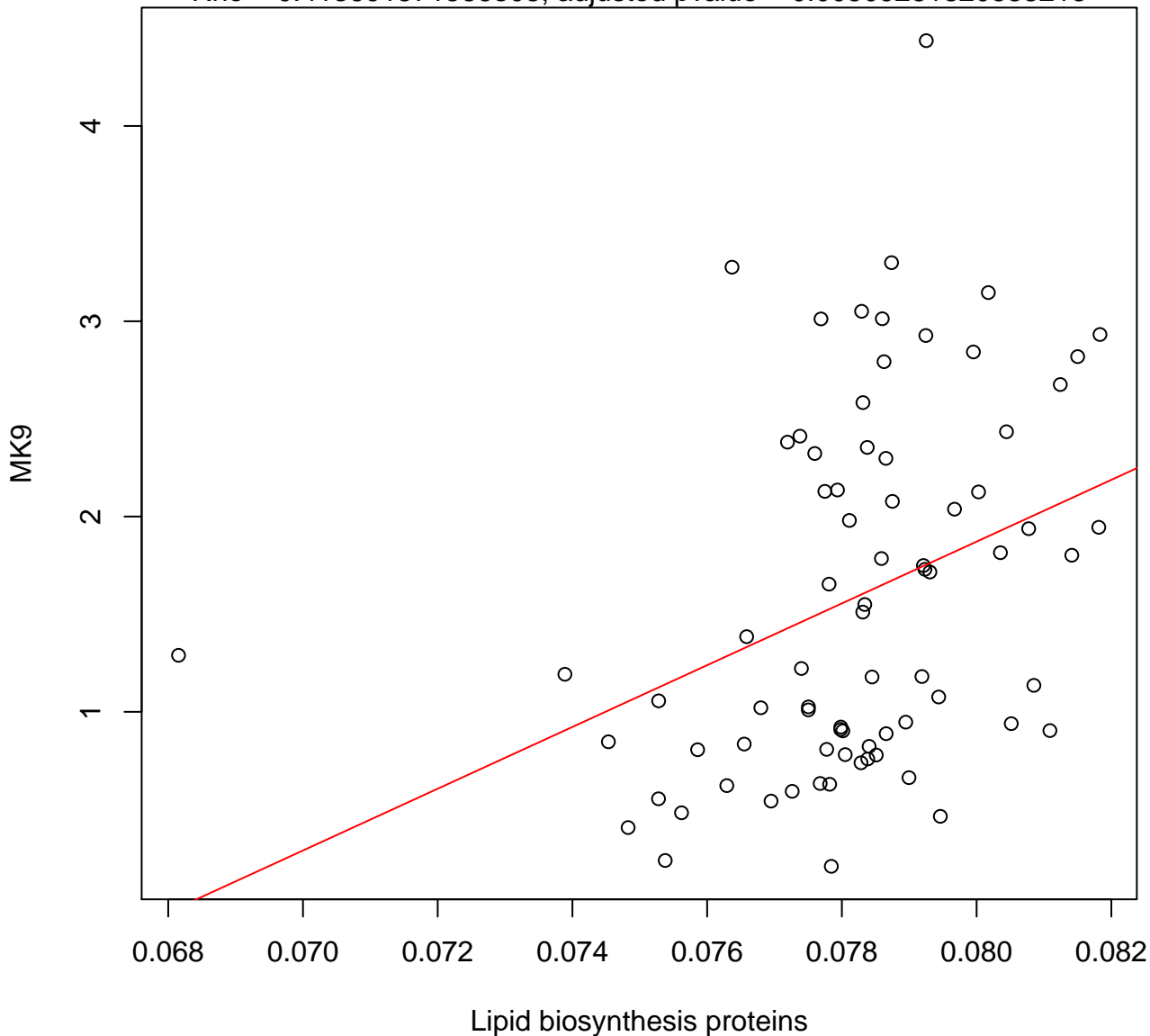
Timepoint 2 , MK9 ~ Inositol phosphate metabolism

Rho = 0.258504653241495, adjusted pvalue = 0.059629948176495



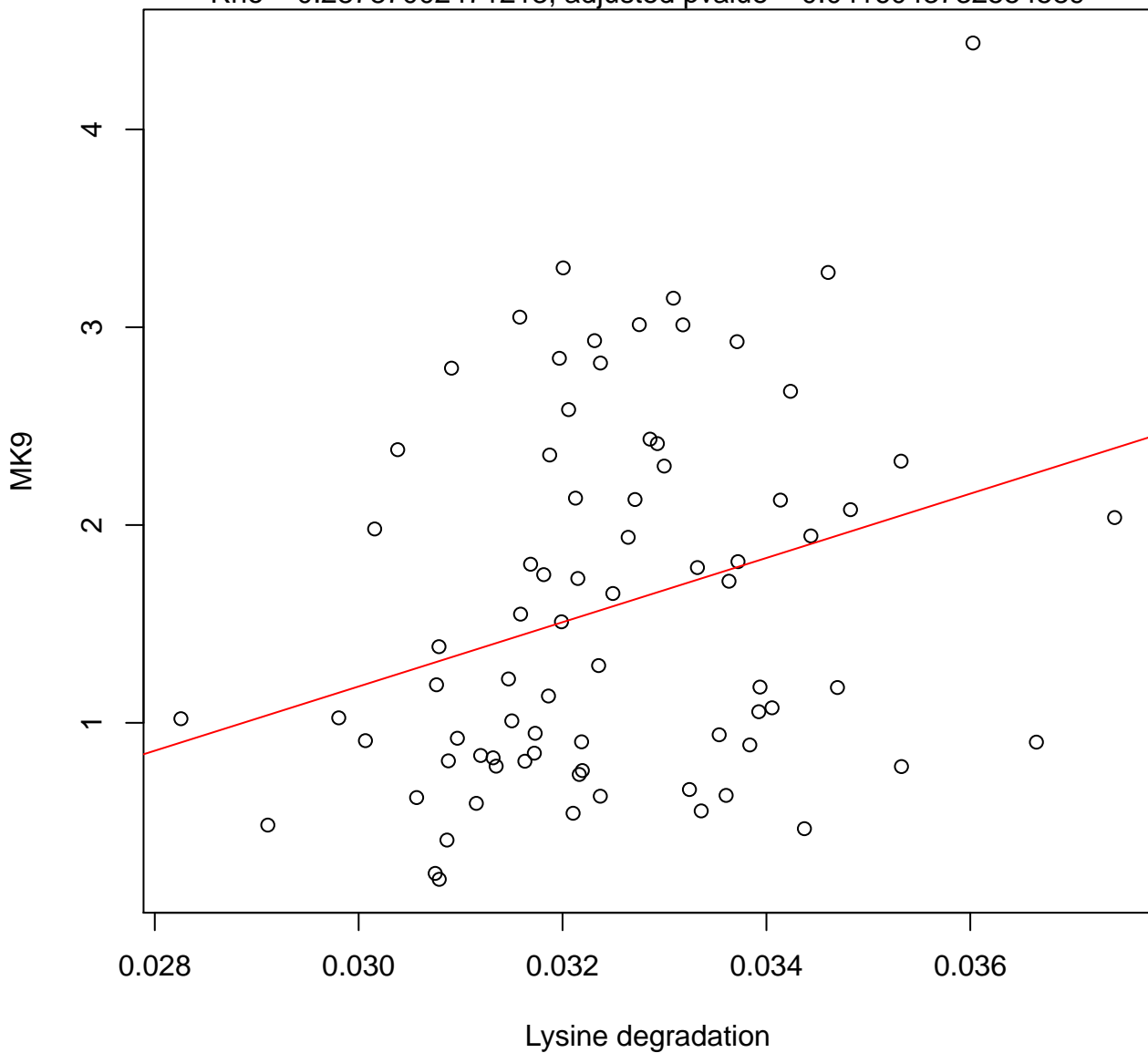
Timepoint 2 , MK9 ~ Lipid biosynthesis proteins

Rho = 0.413691571586308, adjusted pvalue = 0.00509281820538213



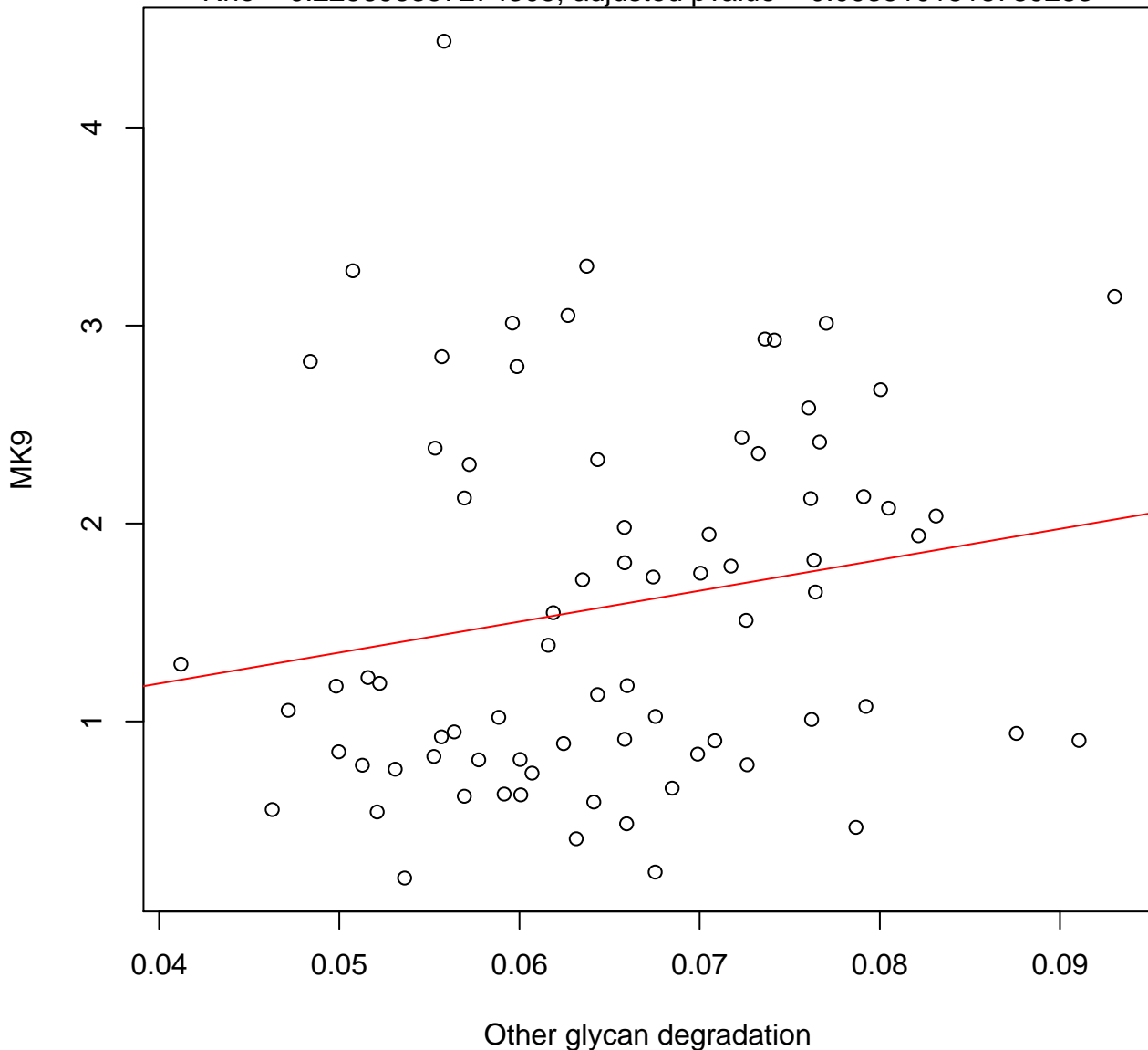
Timepoint 2 , MK9 ~ Lysine degradation

Rho = 0.28787002471213, adjusted pvalue = 0.0416043732554589



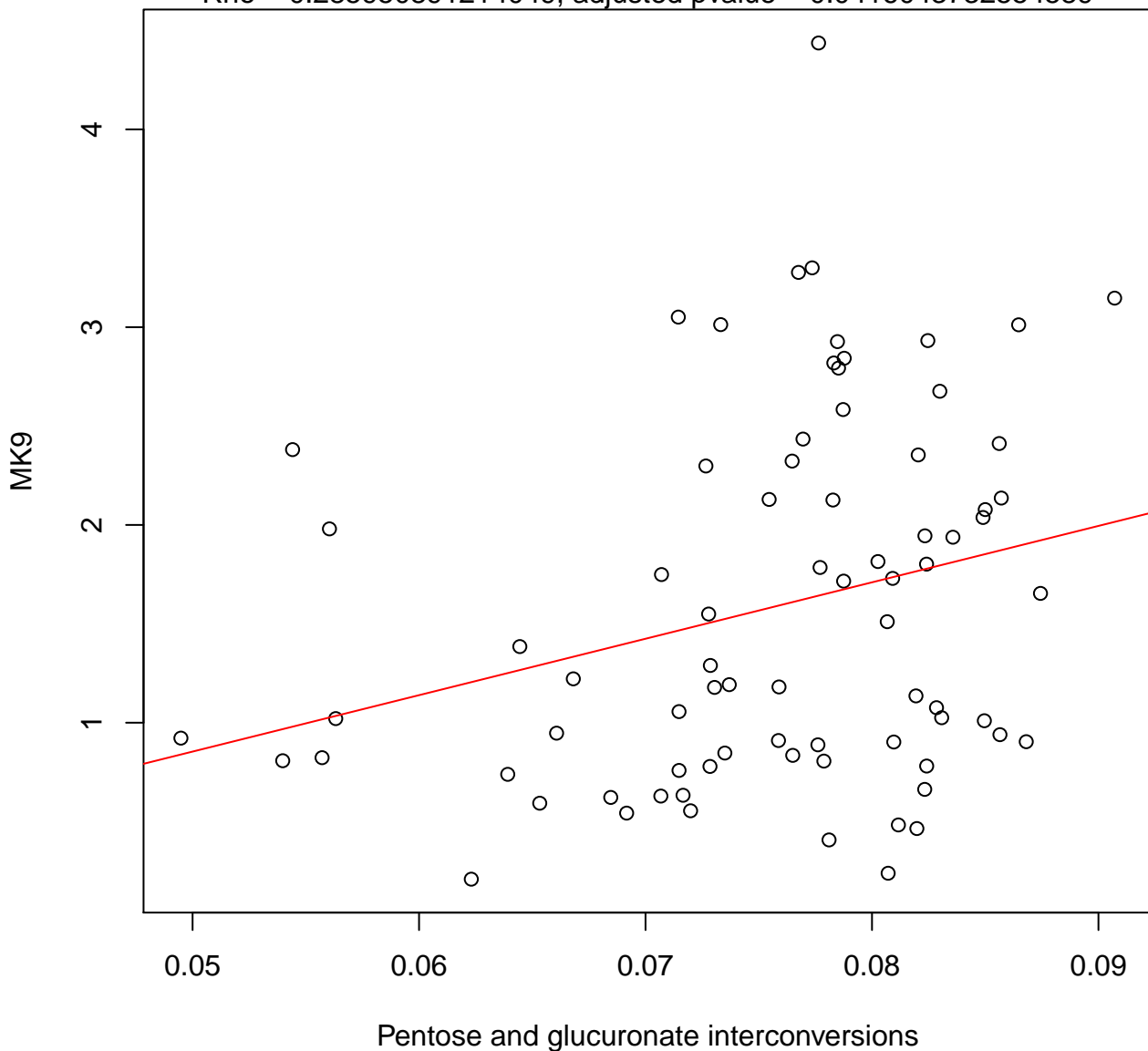
Timepoint 2 , MK9 ~ Other glycan degradation

Rho = 0.225695357274305, adjusted pvalue = 0.0935101518789283



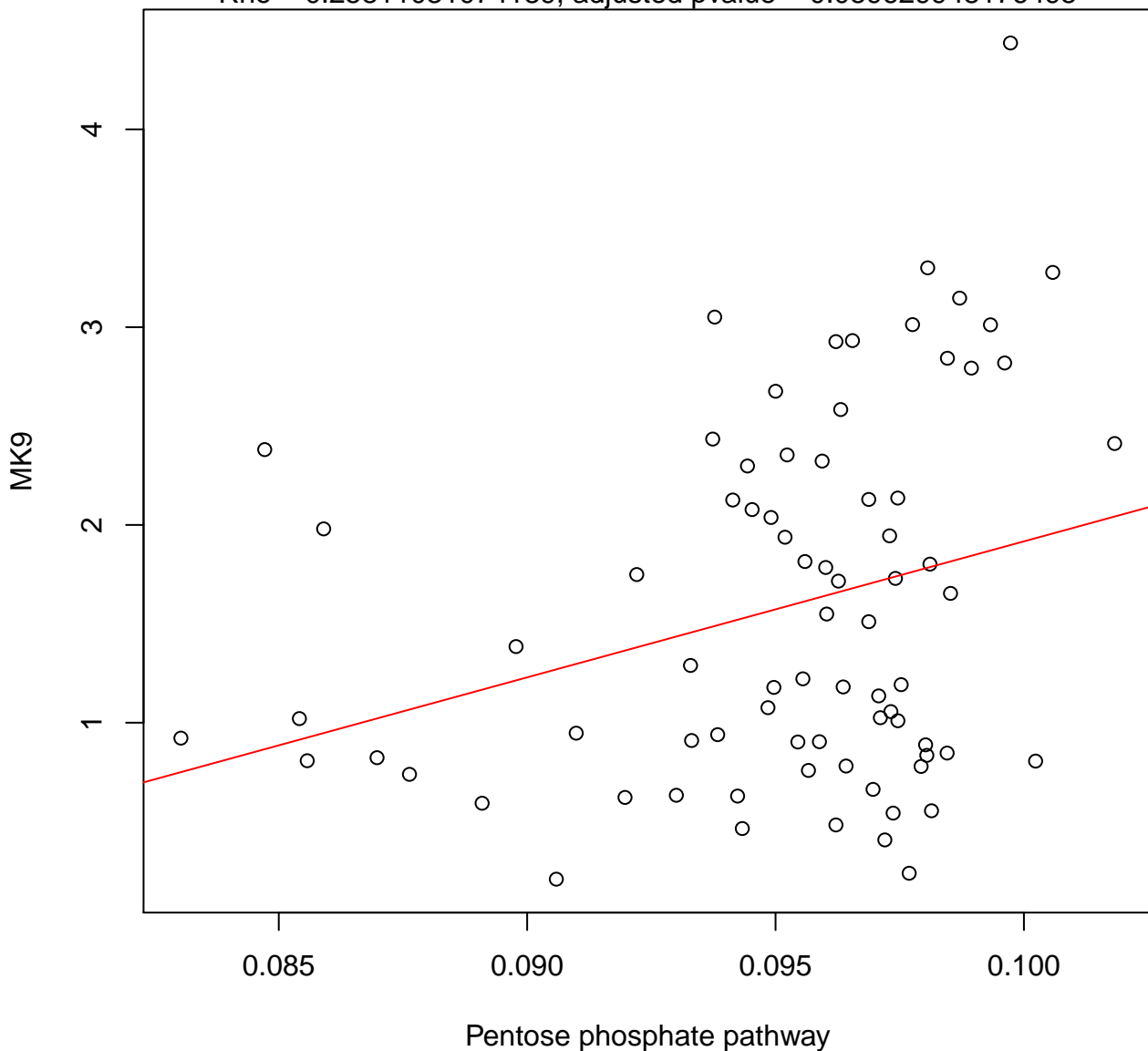
Timepoint 2 , MK9 ~ Pentose and glucuronate interconversions

Rho = 0.285950891214049, adjusted pvalue = 0.0416043732554589



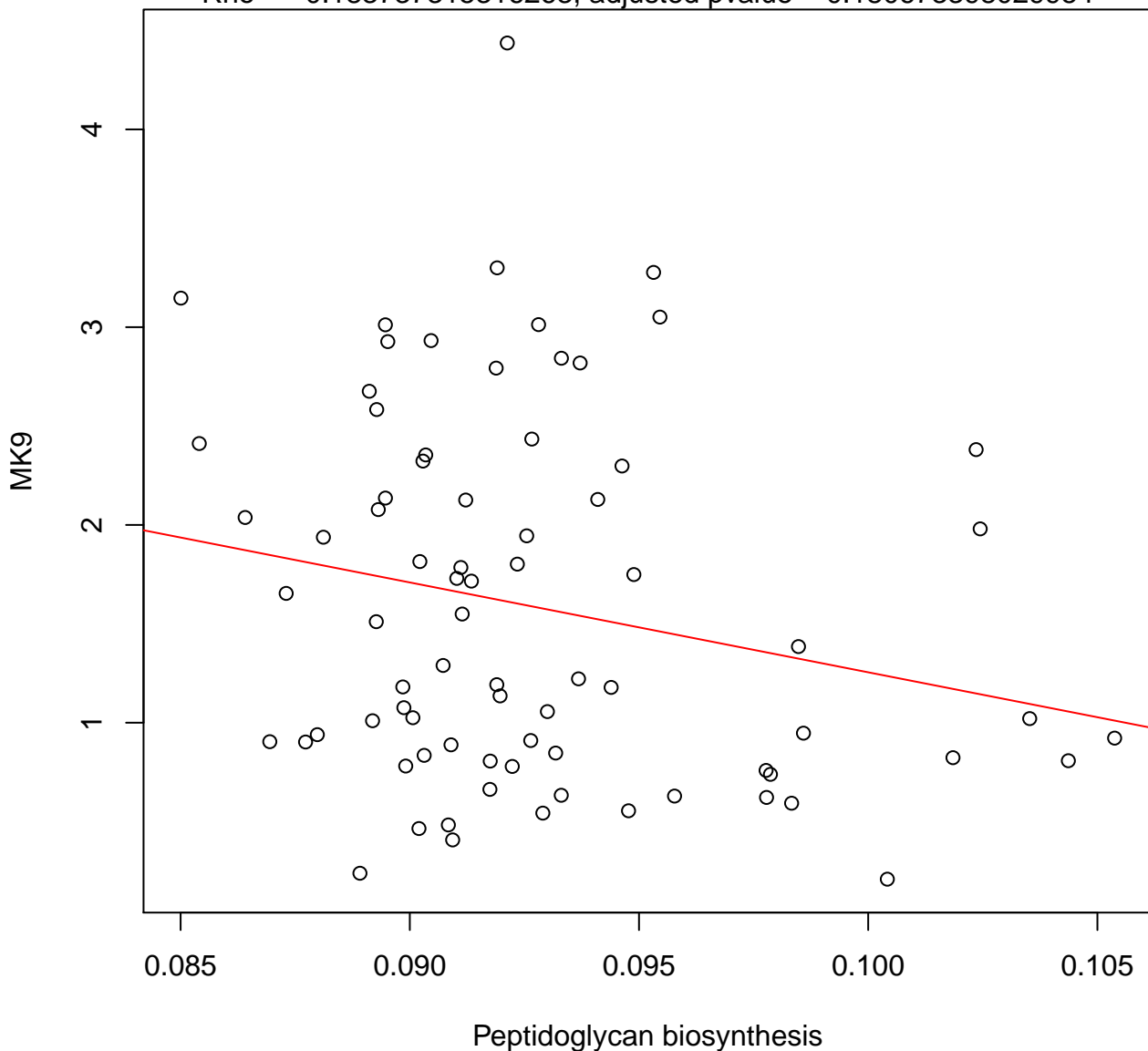
Timepoint 2 , MK9 ~ Pentose phosphate pathway

Rho = 0.25811031074189, adjusted pvalue = 0.059629948176495



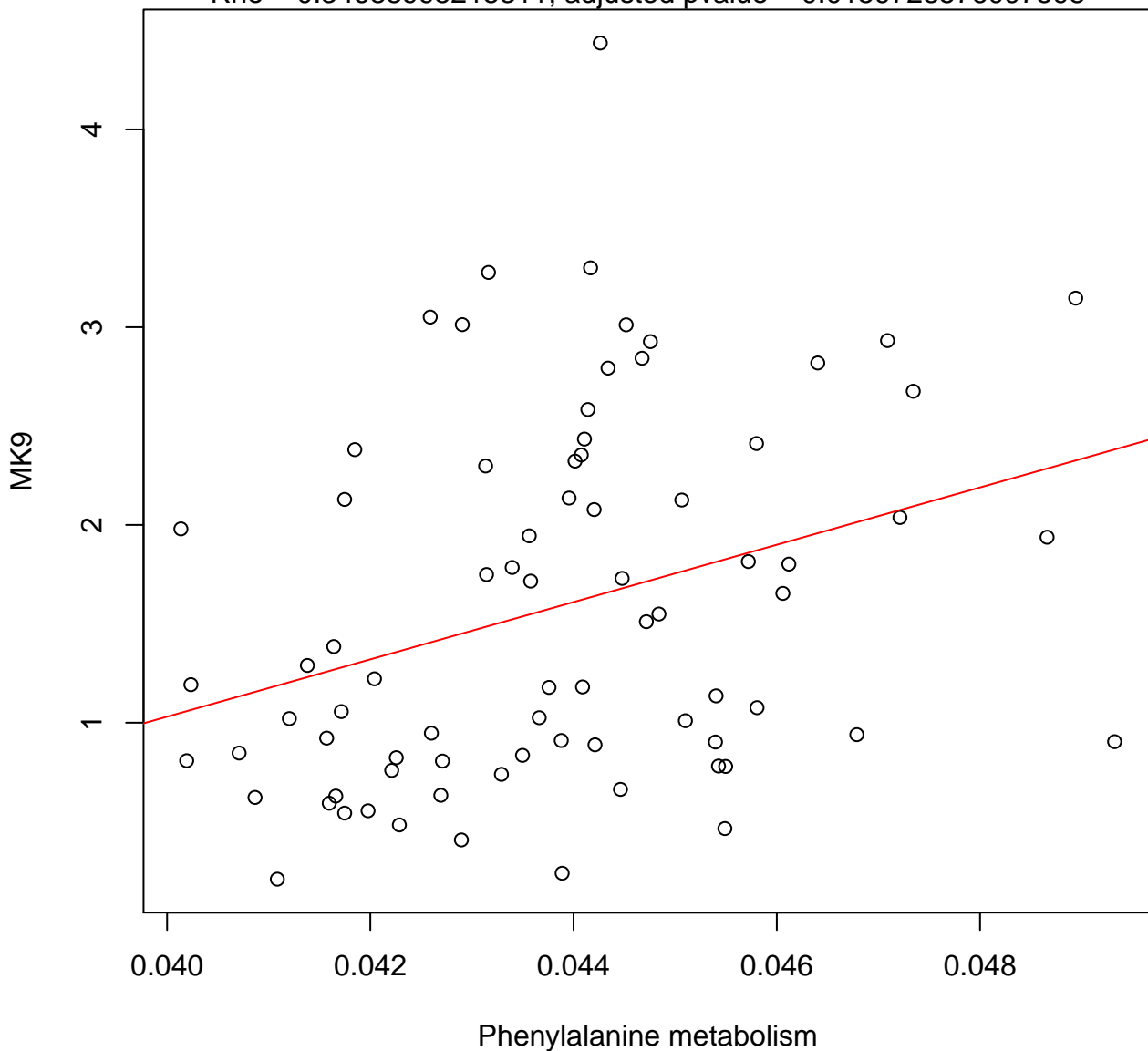
Timepoint 2 , MK9 ~ Peptidoglycan biosynthesis

Rho = -0.183737315316263 , adjusted pvalue = 0.180673398029954



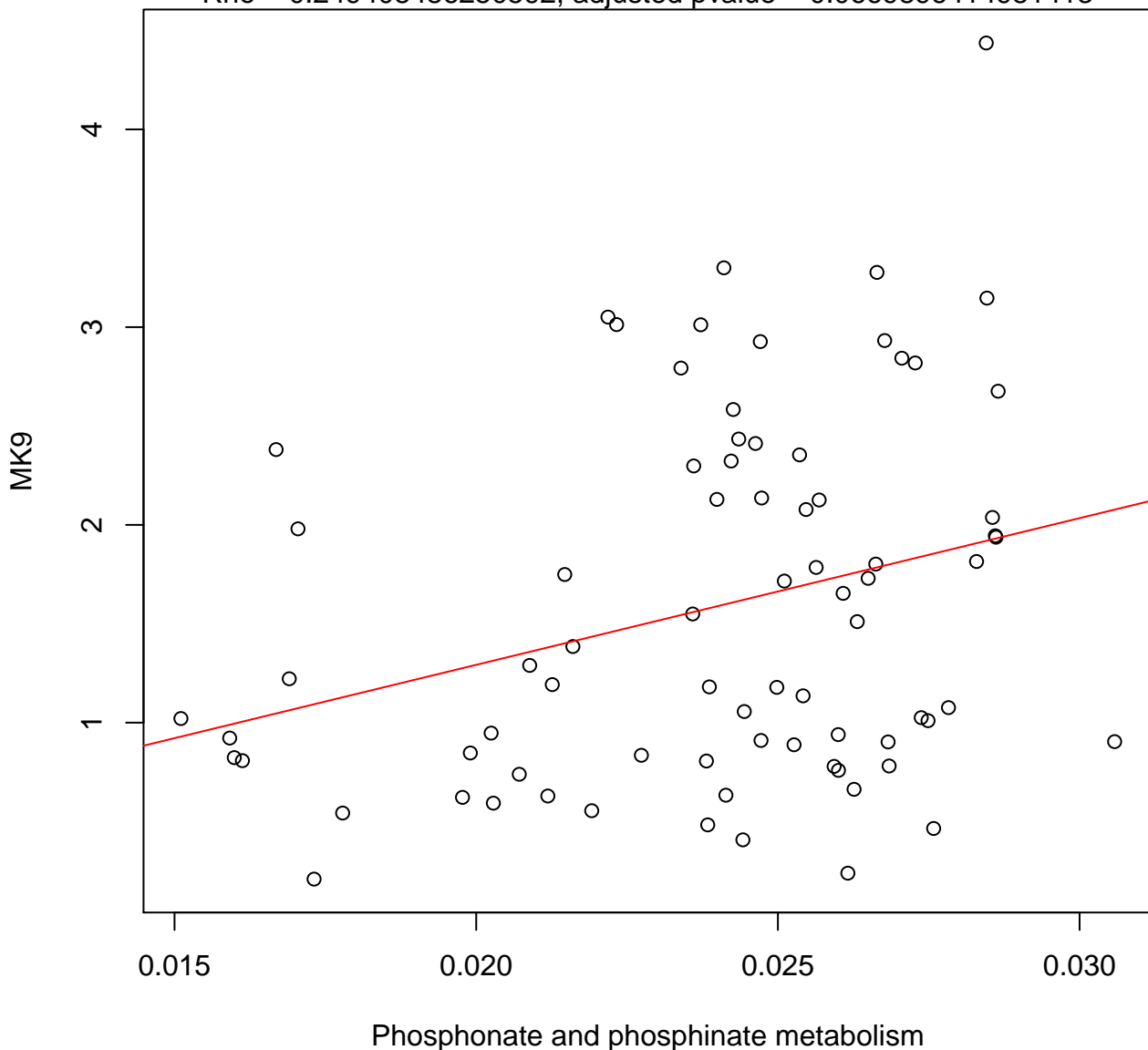
Timepoint 2 , MK9 ~ Phenylalanine metabolism

Rho = 0.34688995215311, adjusted pvalue = 0.0159728576097598



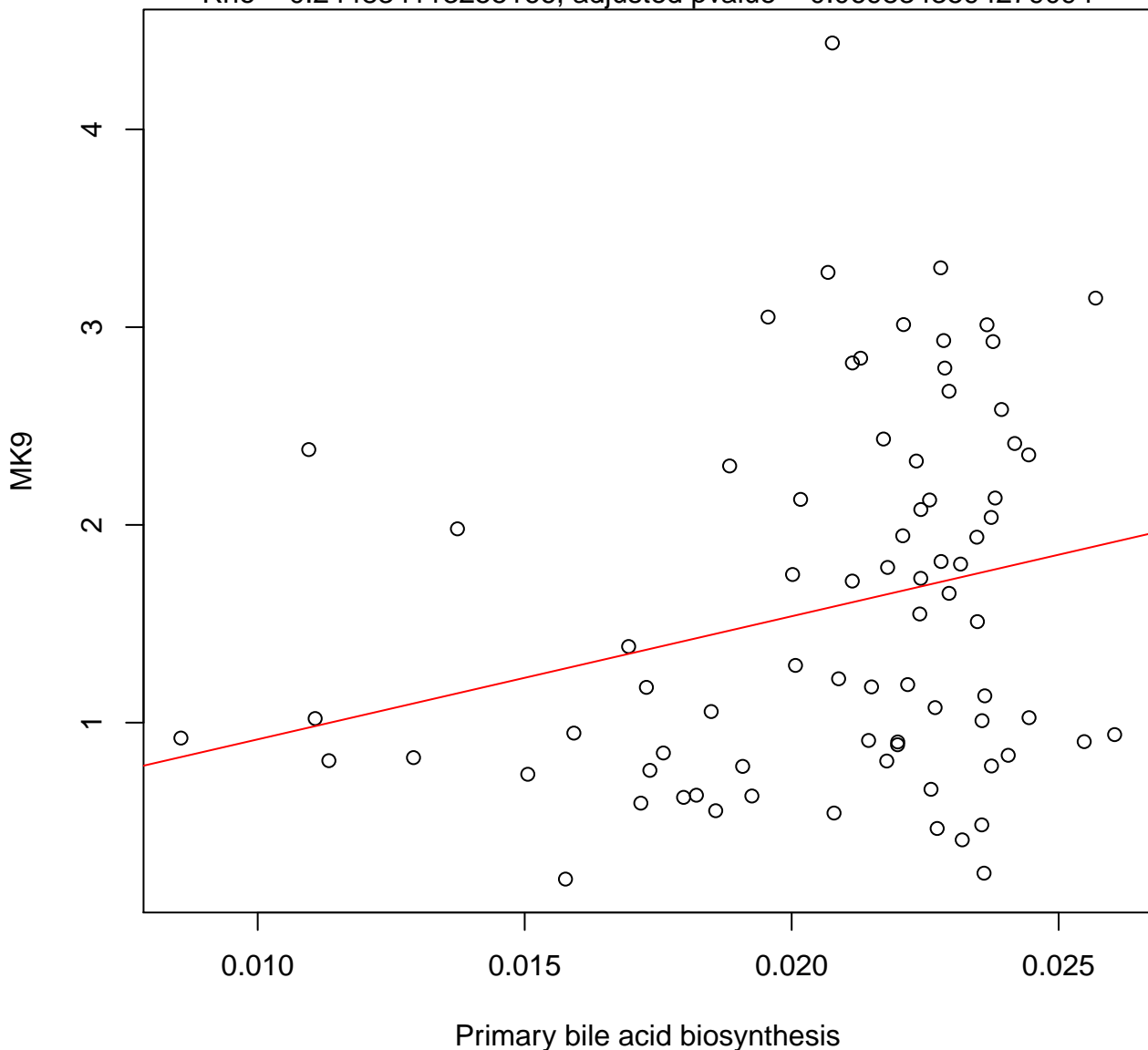
Timepoint 2 , MK9 ~ Phosphonate and phosphinate metabolism

Rho = 0.249408486250592, adjusted pvalue = 0.0669896414981413



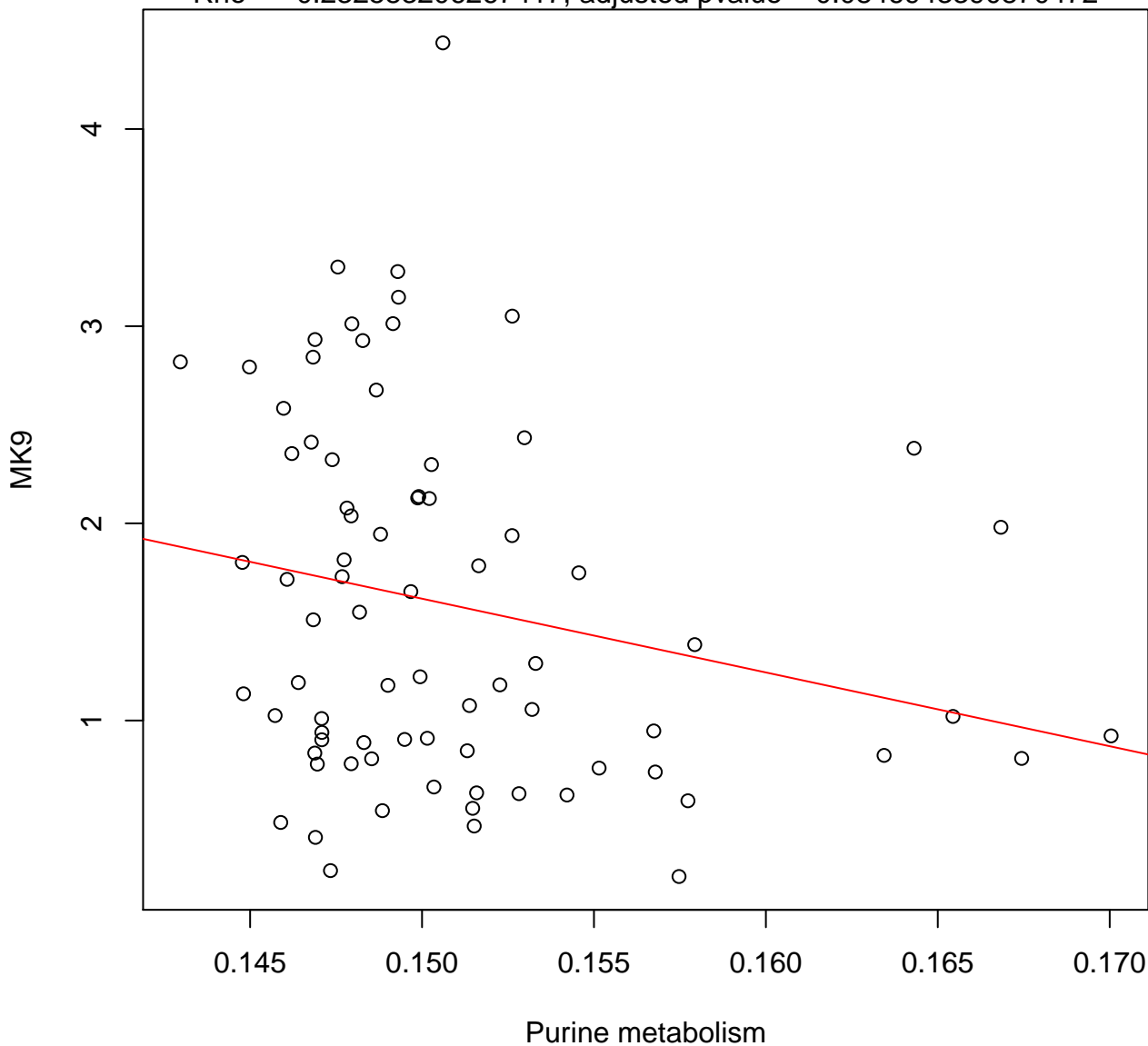
Timepoint 2 , MK9 ~ Primary bile acid biosynthesis

Rho = 0.244834113255166, adjusted pvalue = 0.0698343594279094



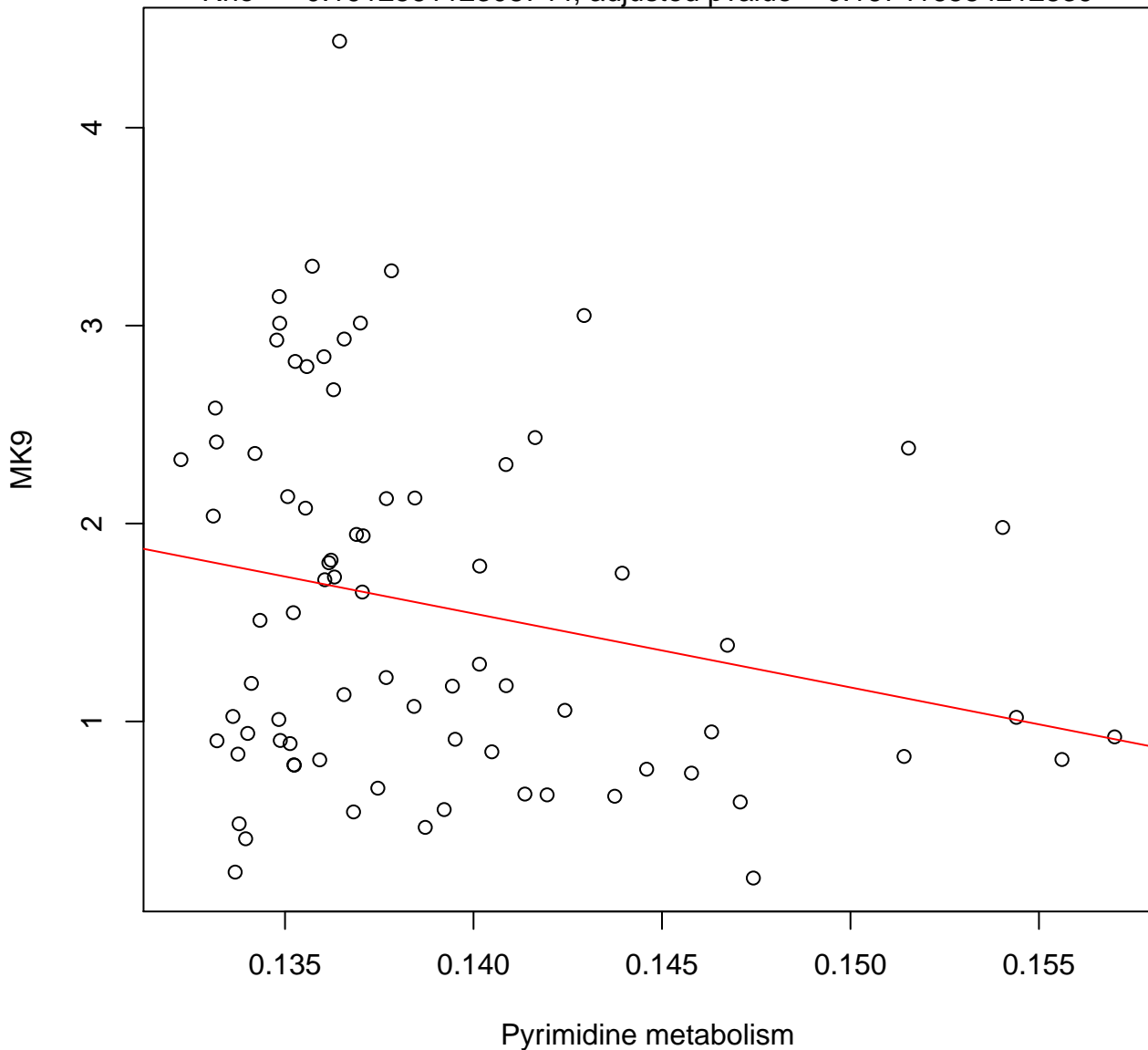
Timepoint 2 , MK9 ~ Purine metabolism

Rho = -0.232583206267417 , adjusted pvalue = 0.0846943390870472



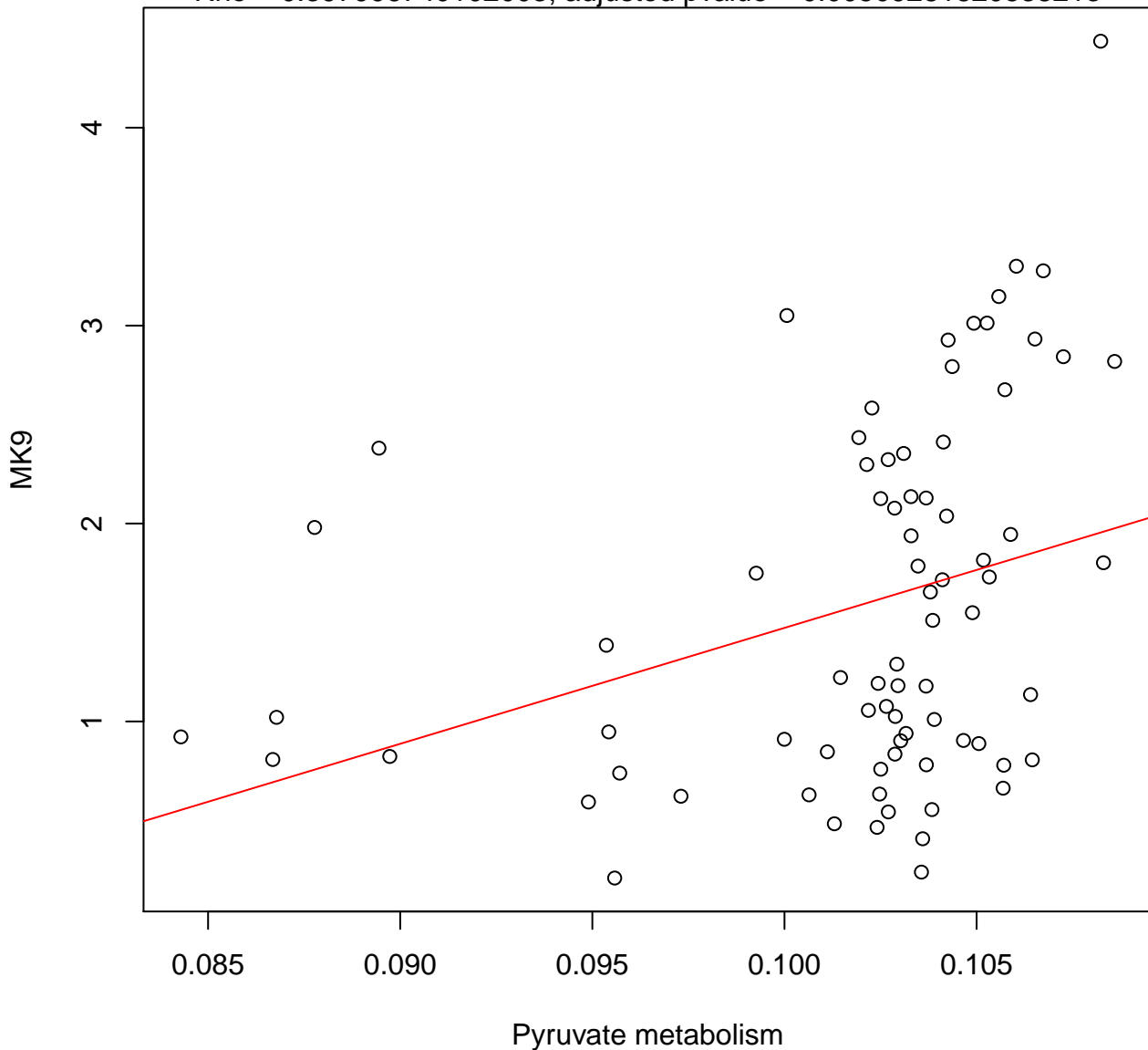
Timepoint 2 , MK9 ~ Pyrimidine metabolism

Rho = -0.191256112308744 , adjusted pvalue = 0.167416554212839



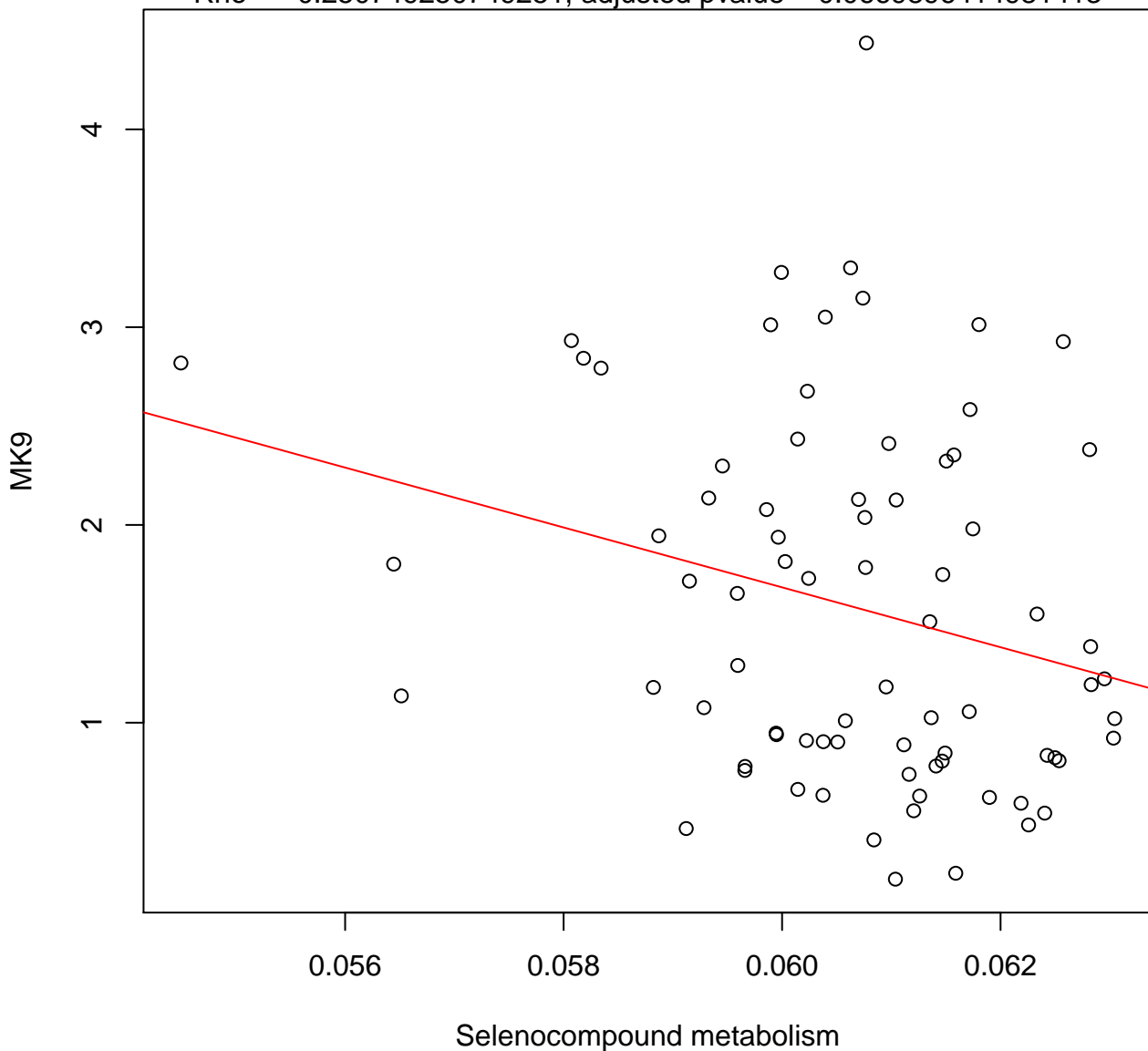
Timepoint 2 , MK9 ~ Pyruvate metabolism

Rho = 0.397996740102003, adjusted pvalue = 0.00509281820538213



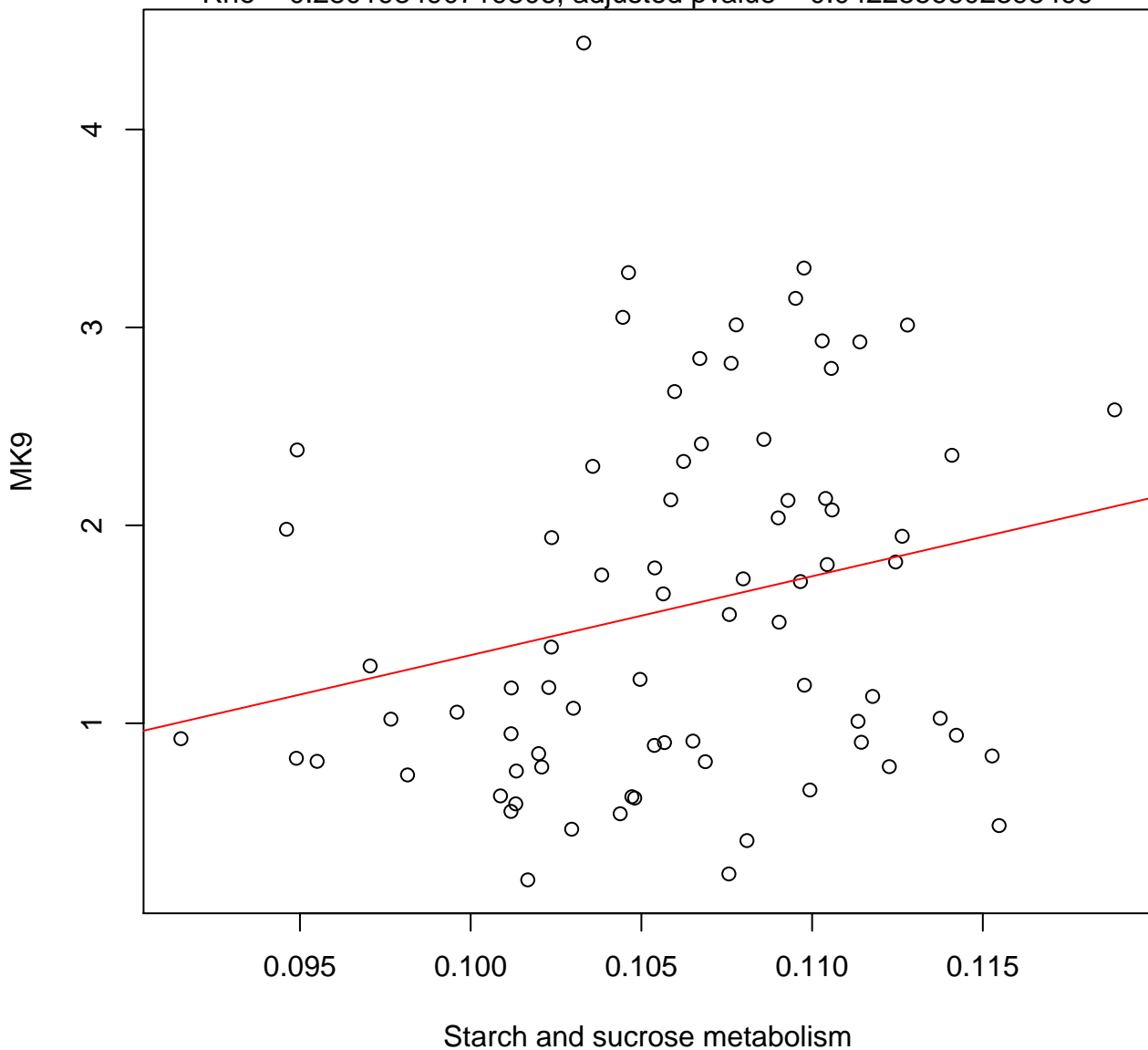
Timepoint 2 , MK9 ~ Selenocompound metabolism

Rho = -0.250749250749251 , adjusted pvalue = 0.0669896414981413



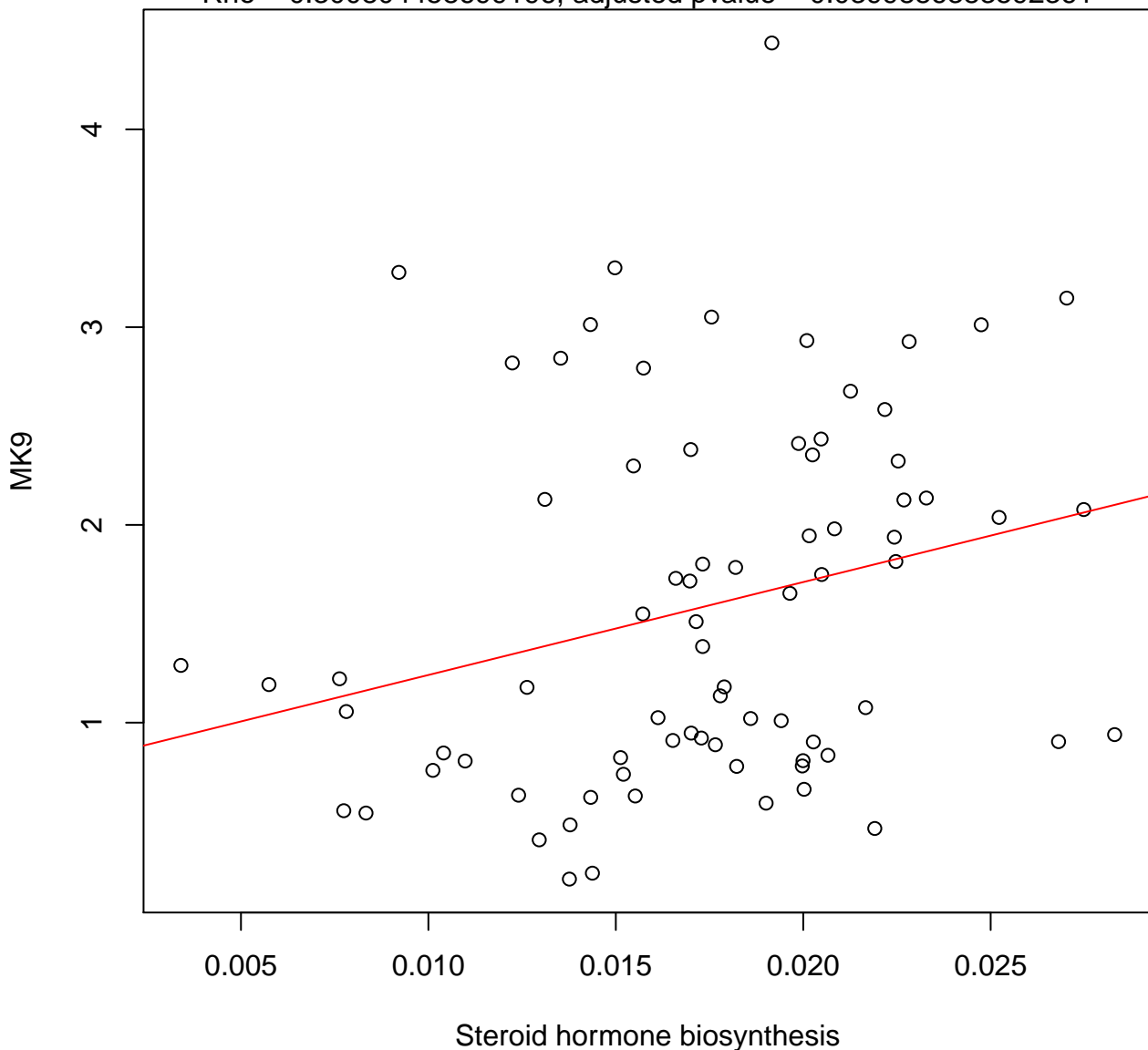
Timepoint 2 , MK9 ~ Starch and sucrose metabolism

Rho = 0.280193490719806, adjusted pvalue = 0.0422556602395499



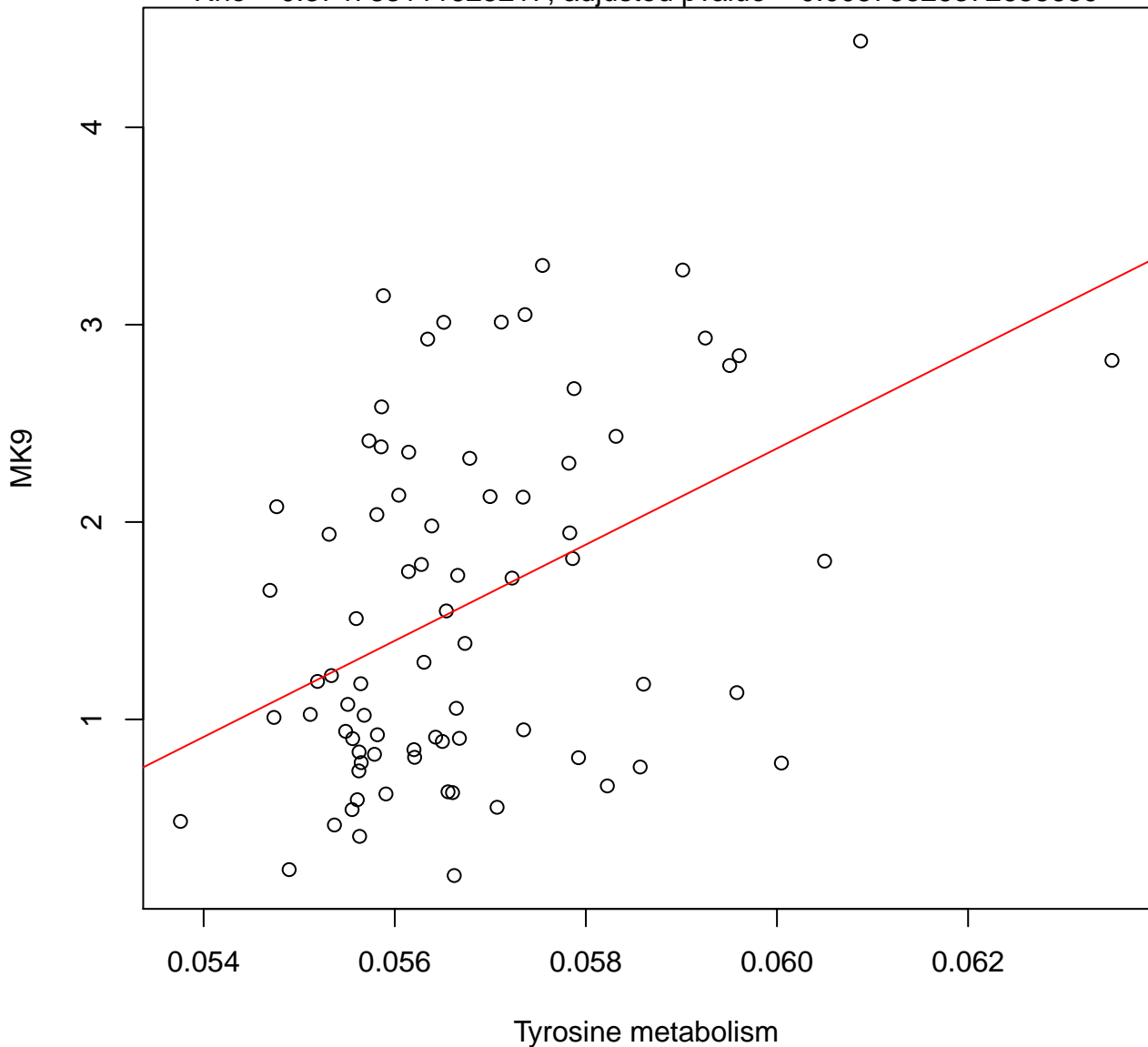
Timepoint 2 , MK9 ~ Steroid hormone biosynthesis

Rho = 0.300804458699196, adjusted pvalue = 0.0399886383592361



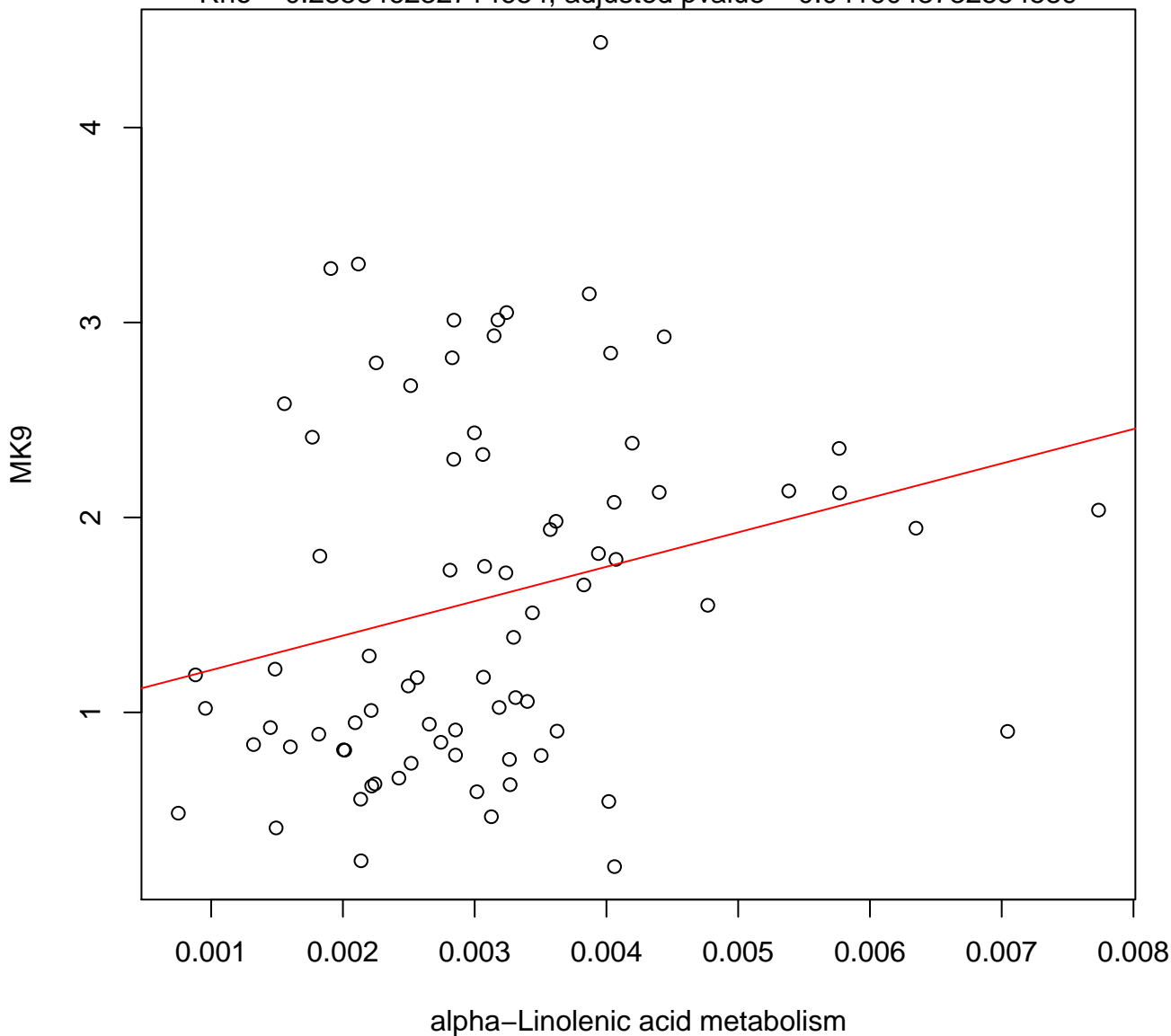
Timepoint 2 , MK9 ~ Tyrosine metabolism

Rho = 0.37478311625217, adjusted pvalue = 0.00878626372658689



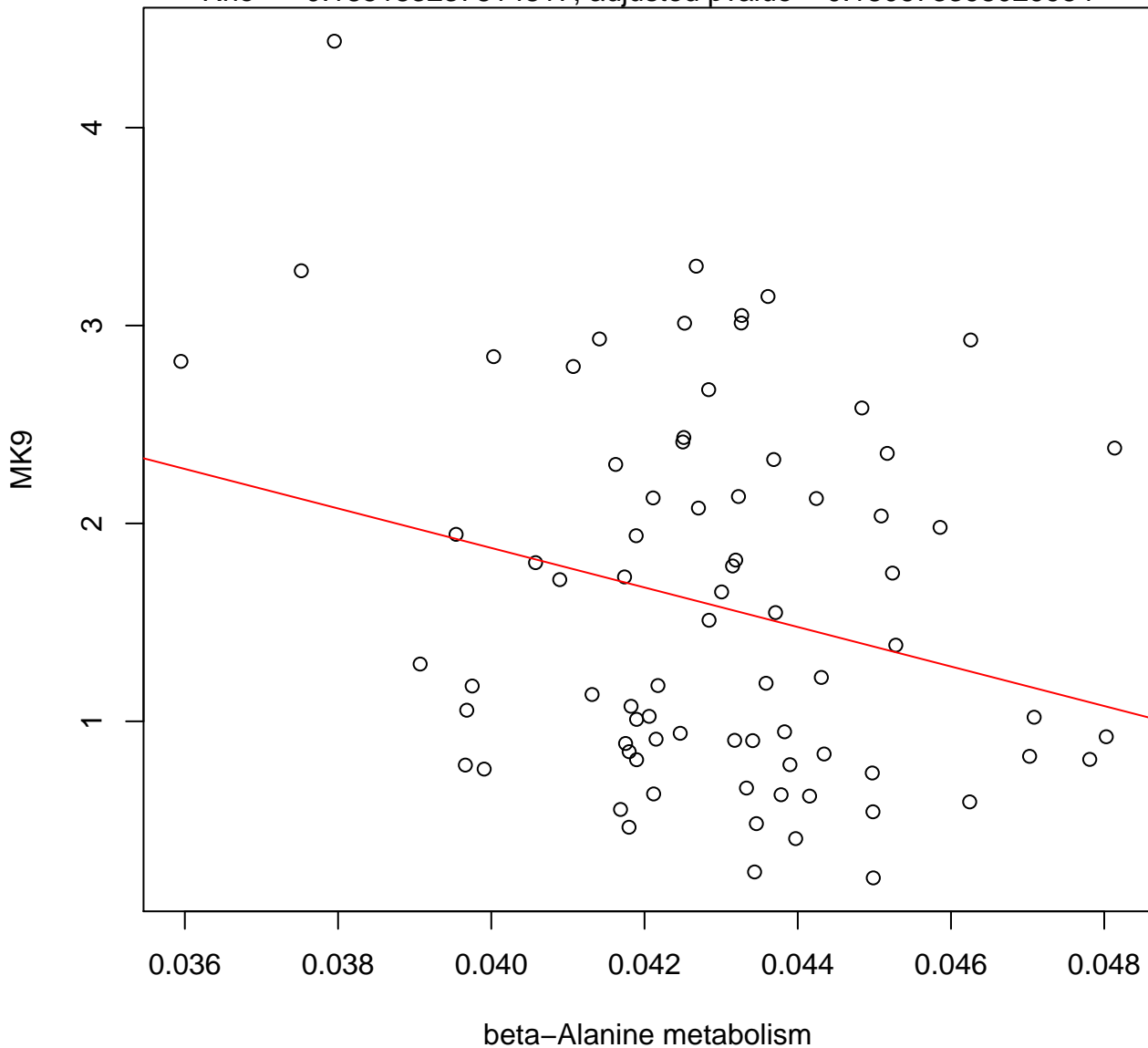
Timepoint 2 , MK9 ~ alpha-Linolenic acid metabolism

Rho = 0.285346232714654, adjusted pvalue = 0.0416043732554589



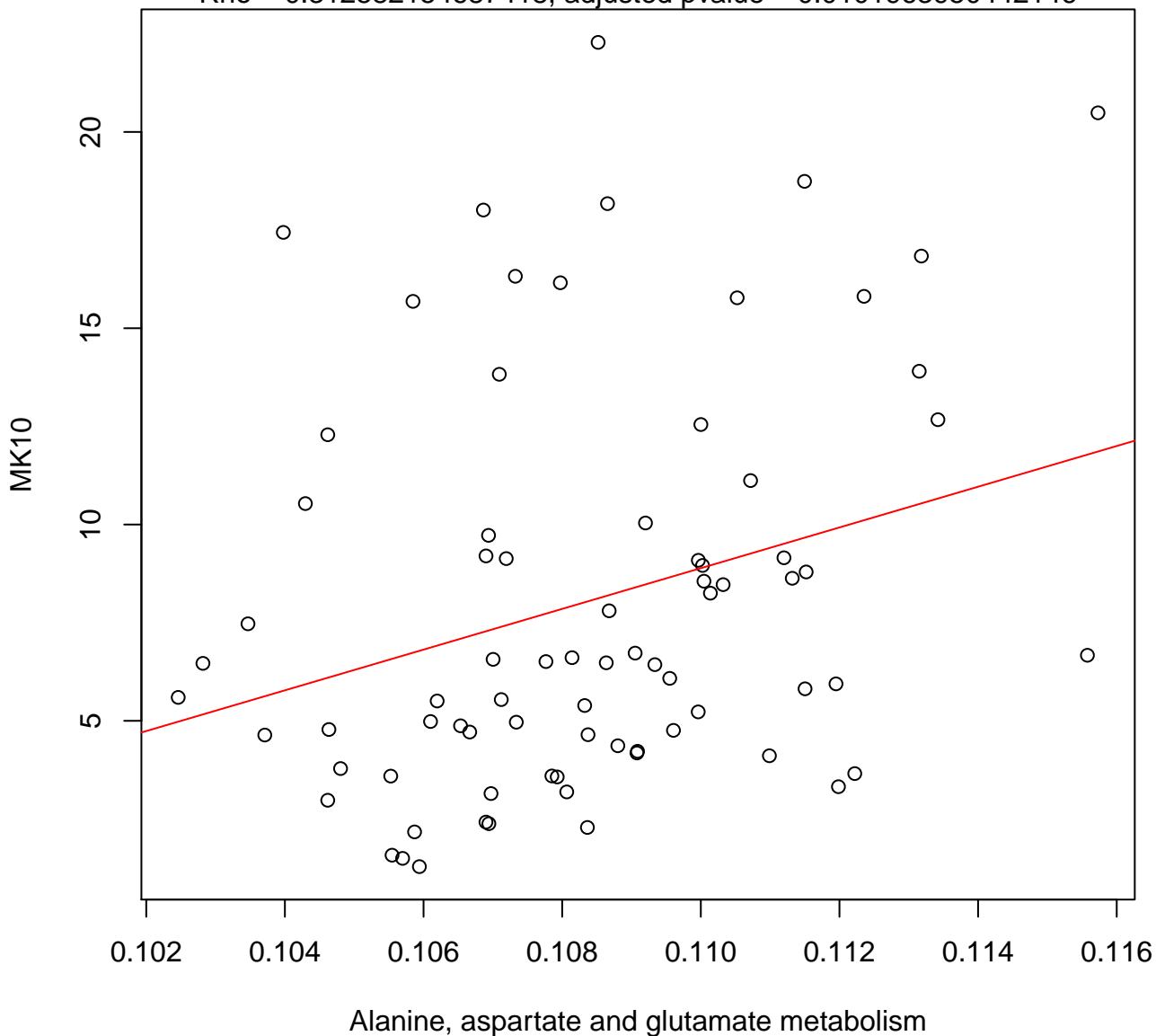
Timepoint 2 , MK9 ~ beta-Alanine metabolism

Rho = -0.185183237814817 , adjusted pvalue = 0.180673398029954



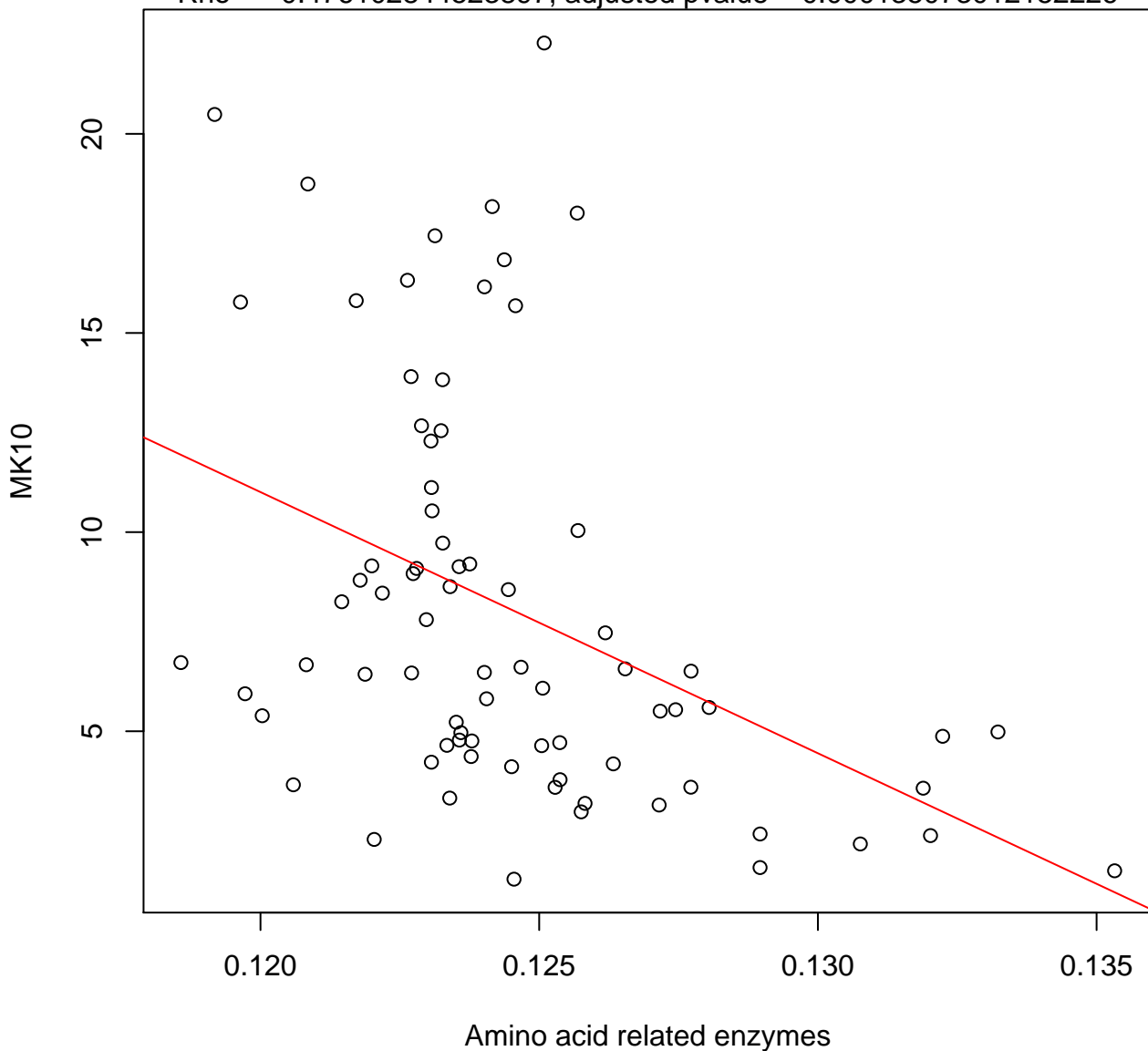
Timepoint 2 , MK10 ~ Alanine, aspartate and glutamate metabolism

Rho = 0.312582154687418, adjusted pvalue = 0.0101963950442146



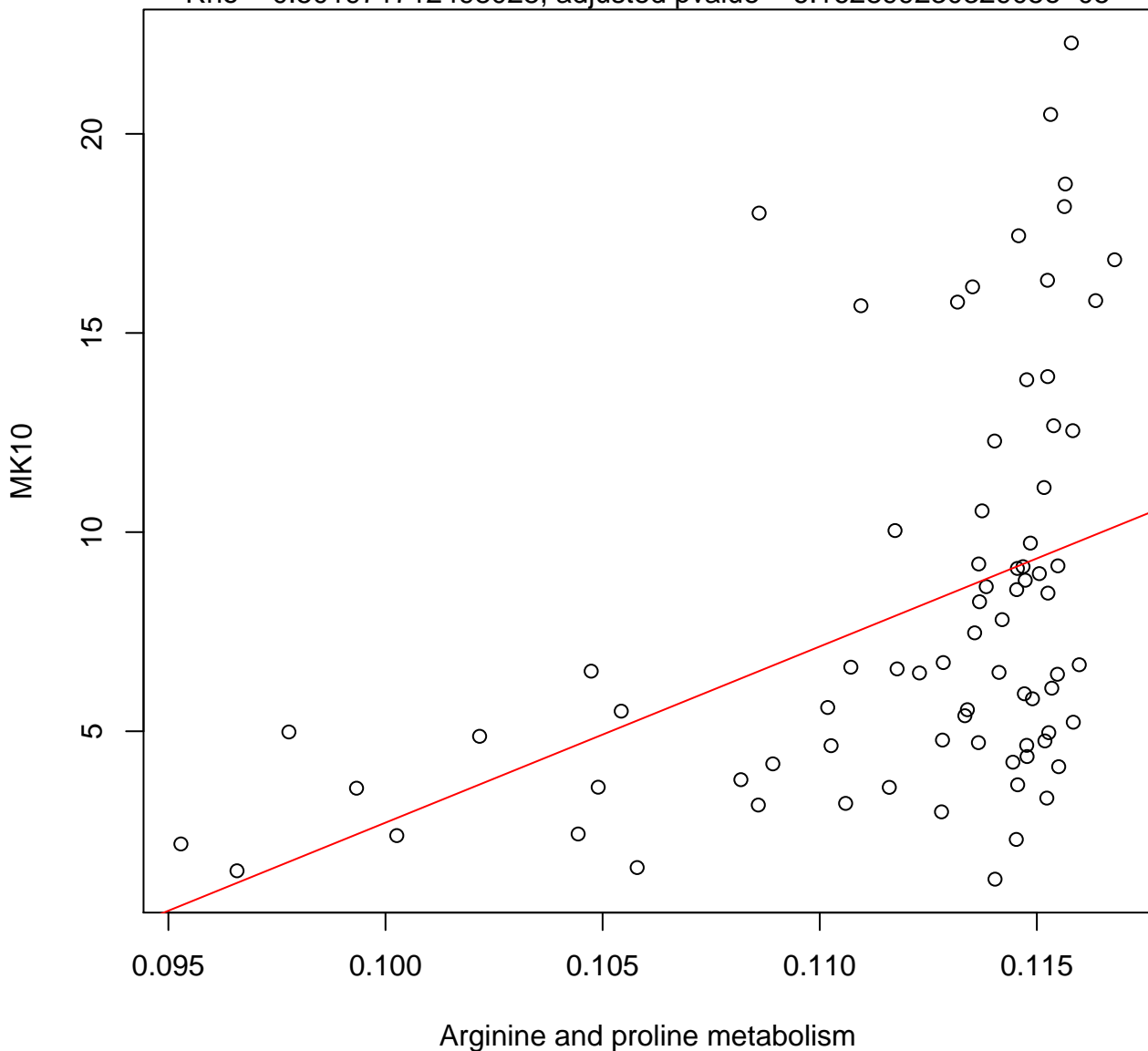
Timepoint 2 , MK10 ~ Amino acid related enzymes

Rho = -0.476102844523897 , adjusted pvalue = 0.000135073012152226



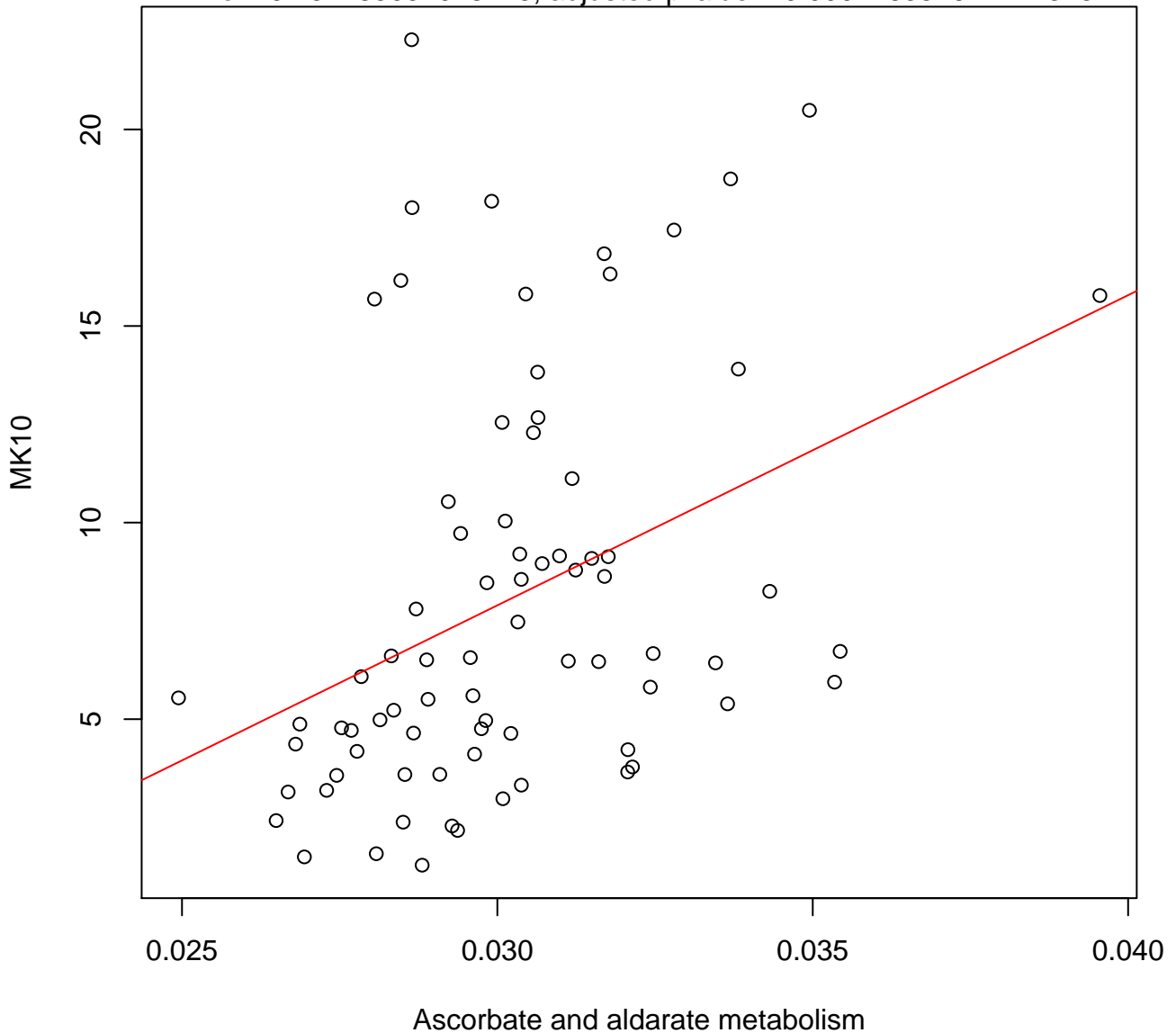
Timepoint 2 , MK10 ~ Arginine and proline metabolism

Rho = 0.501971712498028, adjusted pvalue = 6.16289923032905e-05



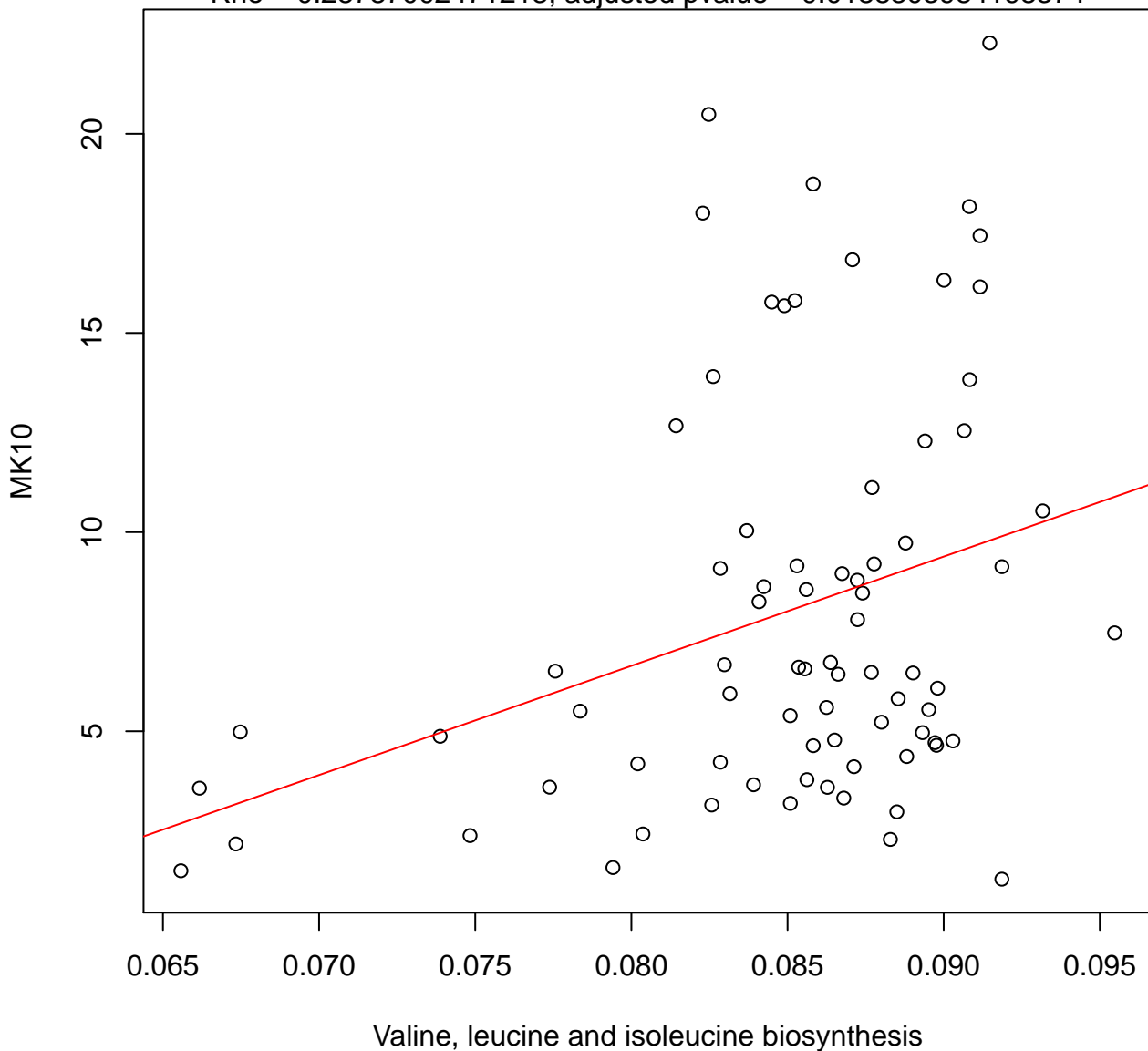
Timepoint 2 , MK10 ~ Ascorbate and aldarate metabolism

Rho = 0.451785057048215, adjusted pvalue = 0.000216352624211325



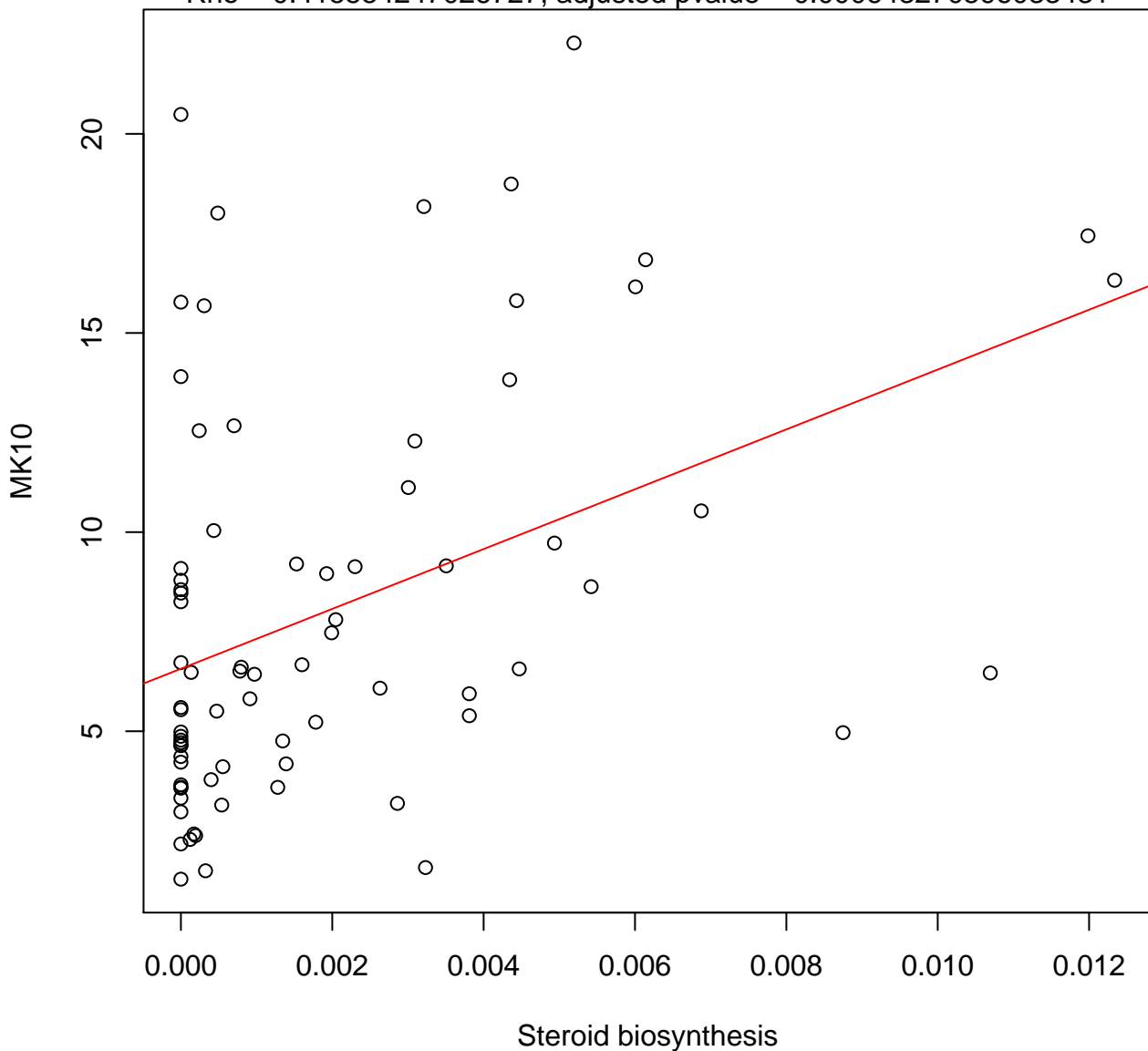
Timepoint 2 , MK10 ~ Valine, leucine and isoleucine biosynthesis

Rho = 0.28787002471213, adjusted pvalue = 0.0188803984198374



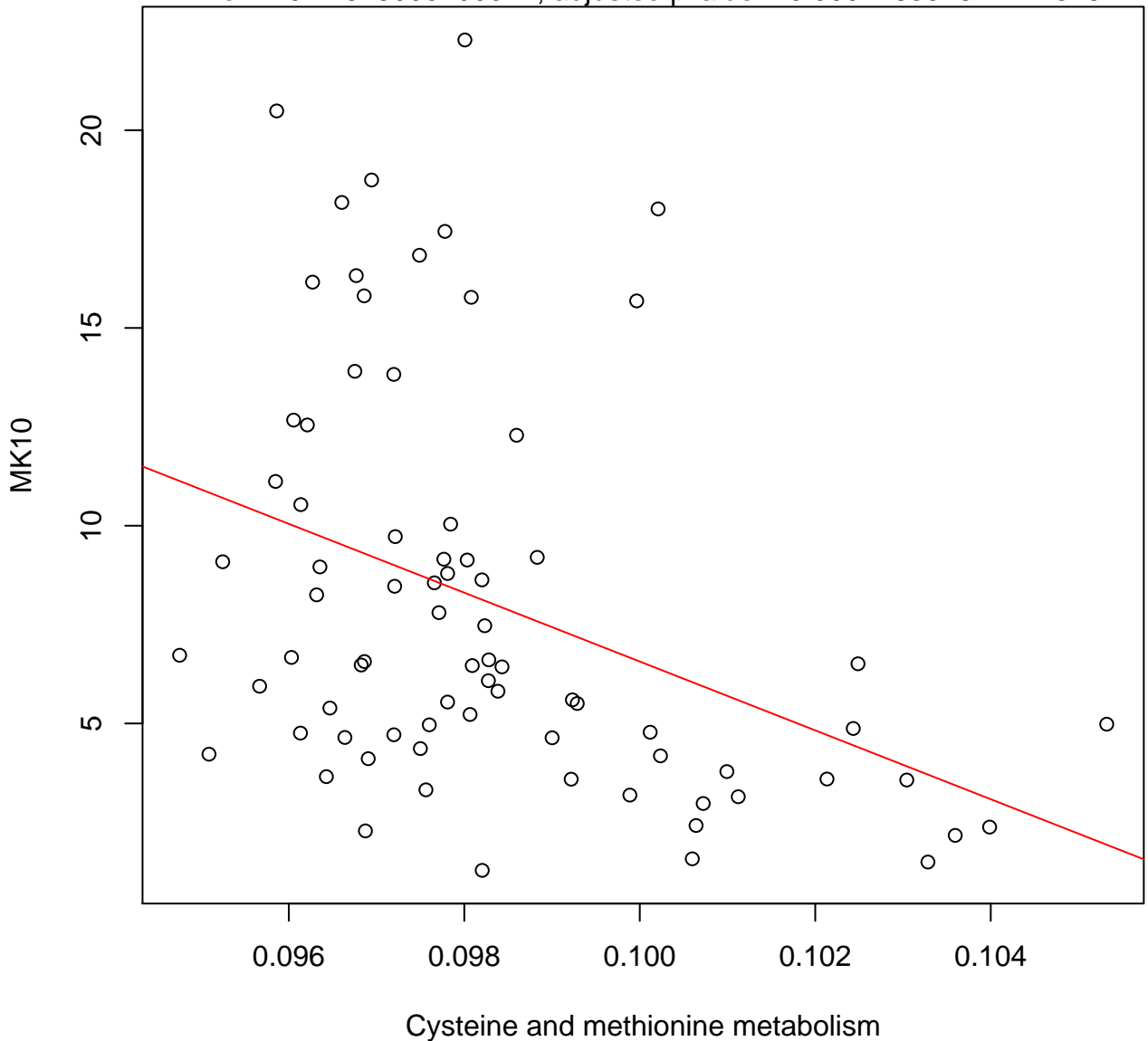
Timepoint 2 , MK10 ~ Steroid biosynthesis

Rho = 0.415554247026727, adjusted pvalue = 0.000643270596033431



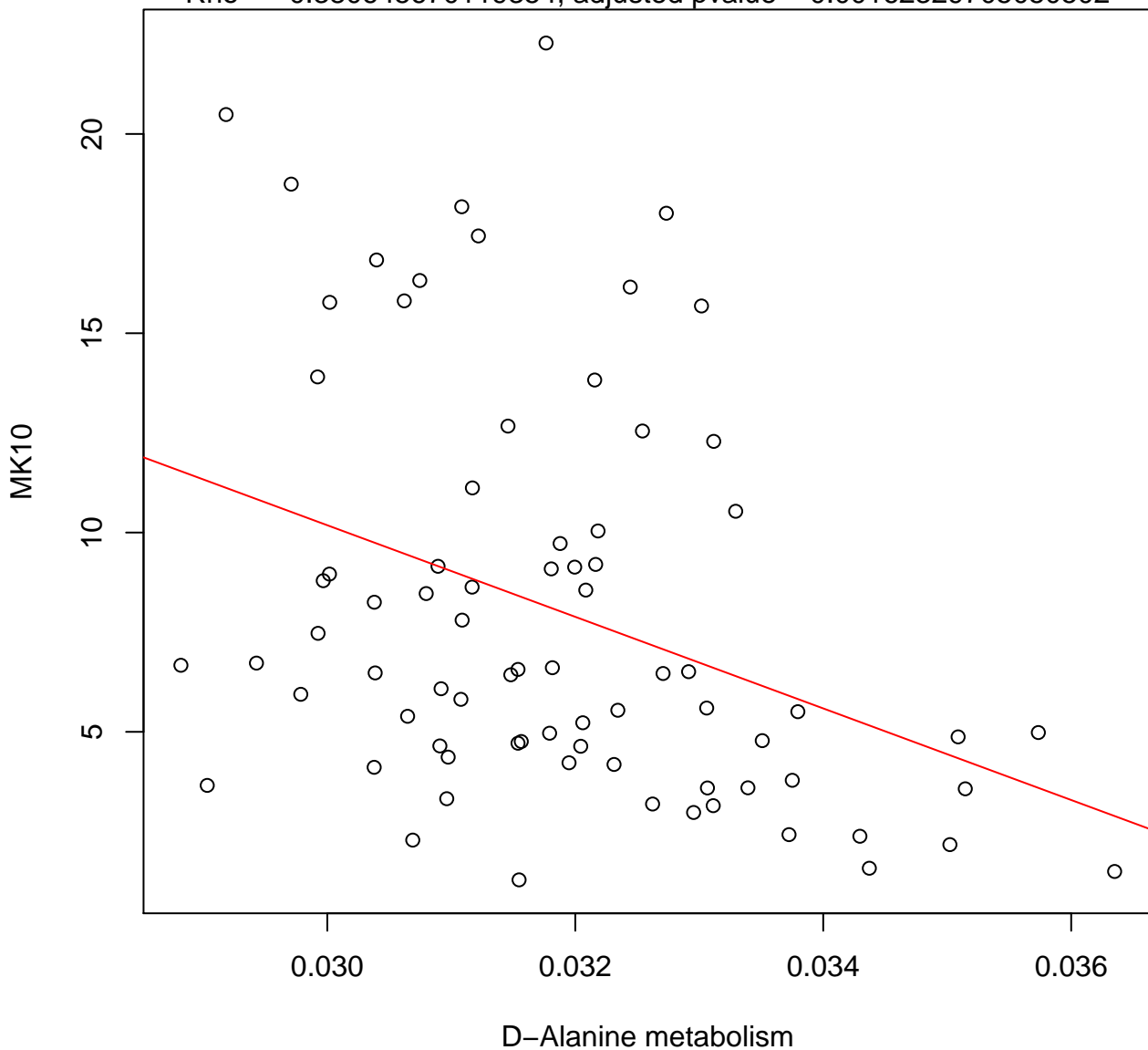
Timepoint 2 , MK10 ~ Cysteine and methionine metabolism

Rho = -0.44679005205321 , adjusted pvalue = 0.000216352624211325



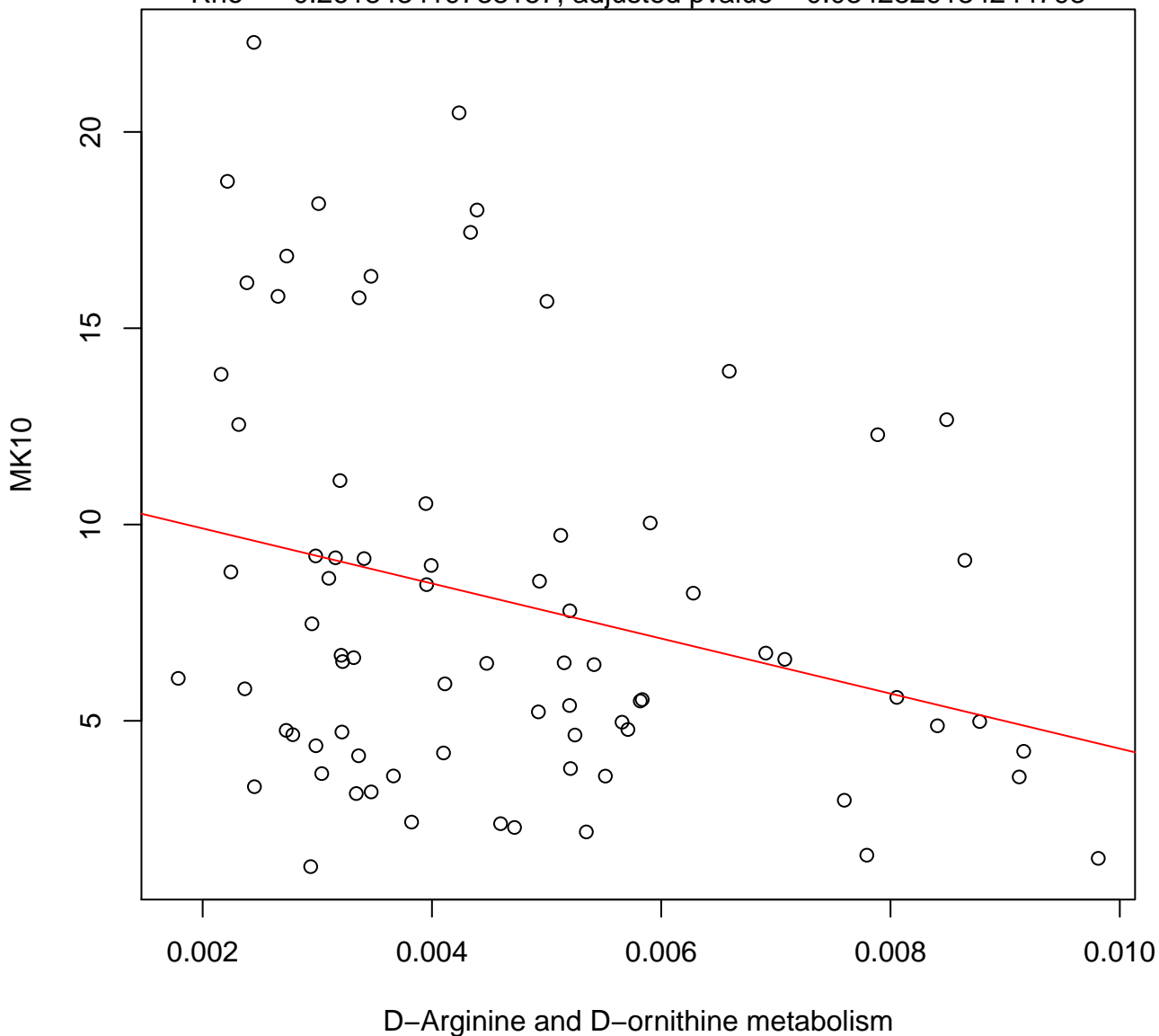
Timepoint 2 , MK10 ~ D-Alanine metabolism

Rho = -0.380645670119354 , adjusted pvalue = 0.00162329705050502



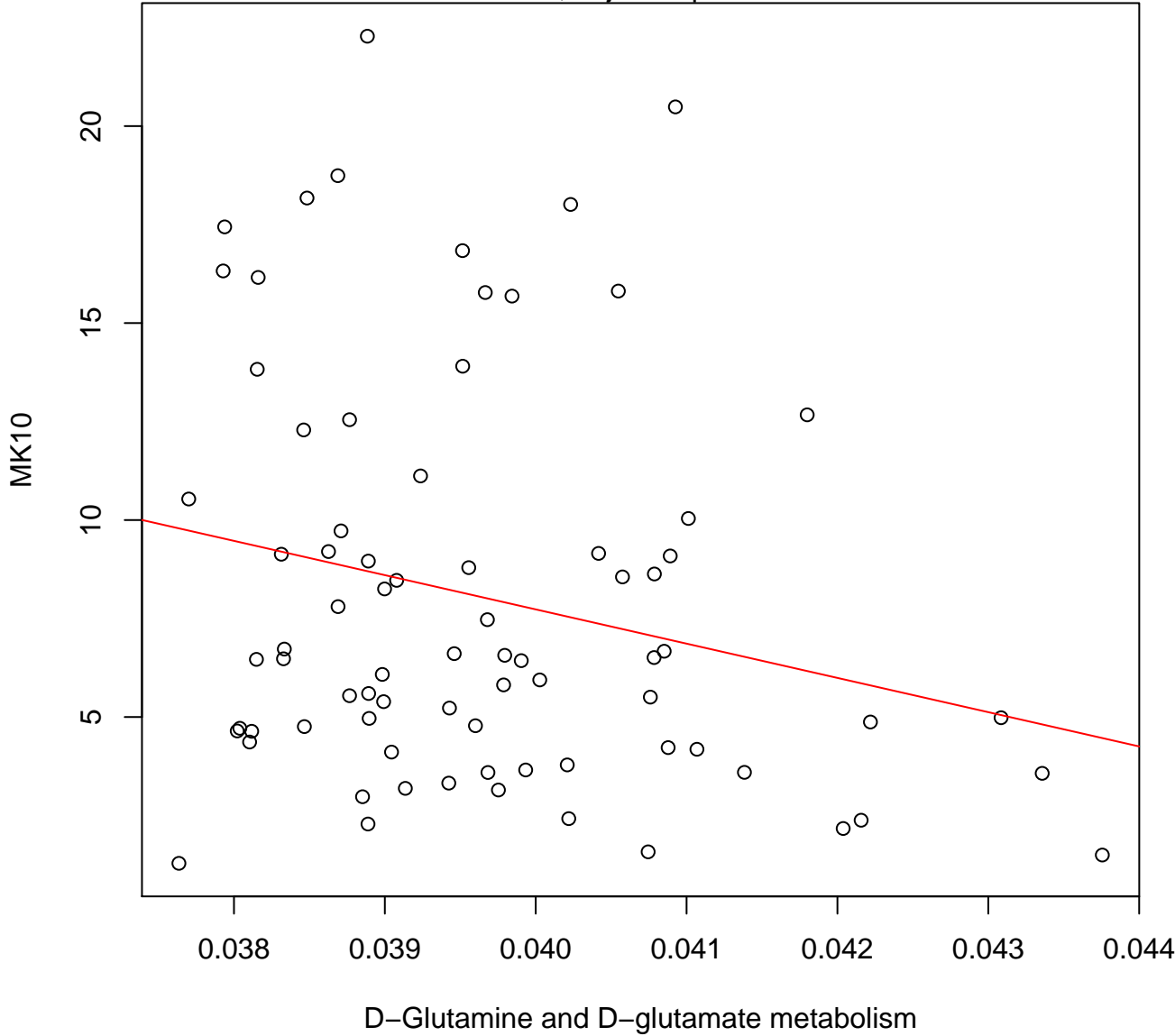
Timepoint 2 , MK10 ~ D-Arginine and D-ornithine metabolism

Rho = -0.261843419738157 , adjusted pvalue = 0.0342829134244793



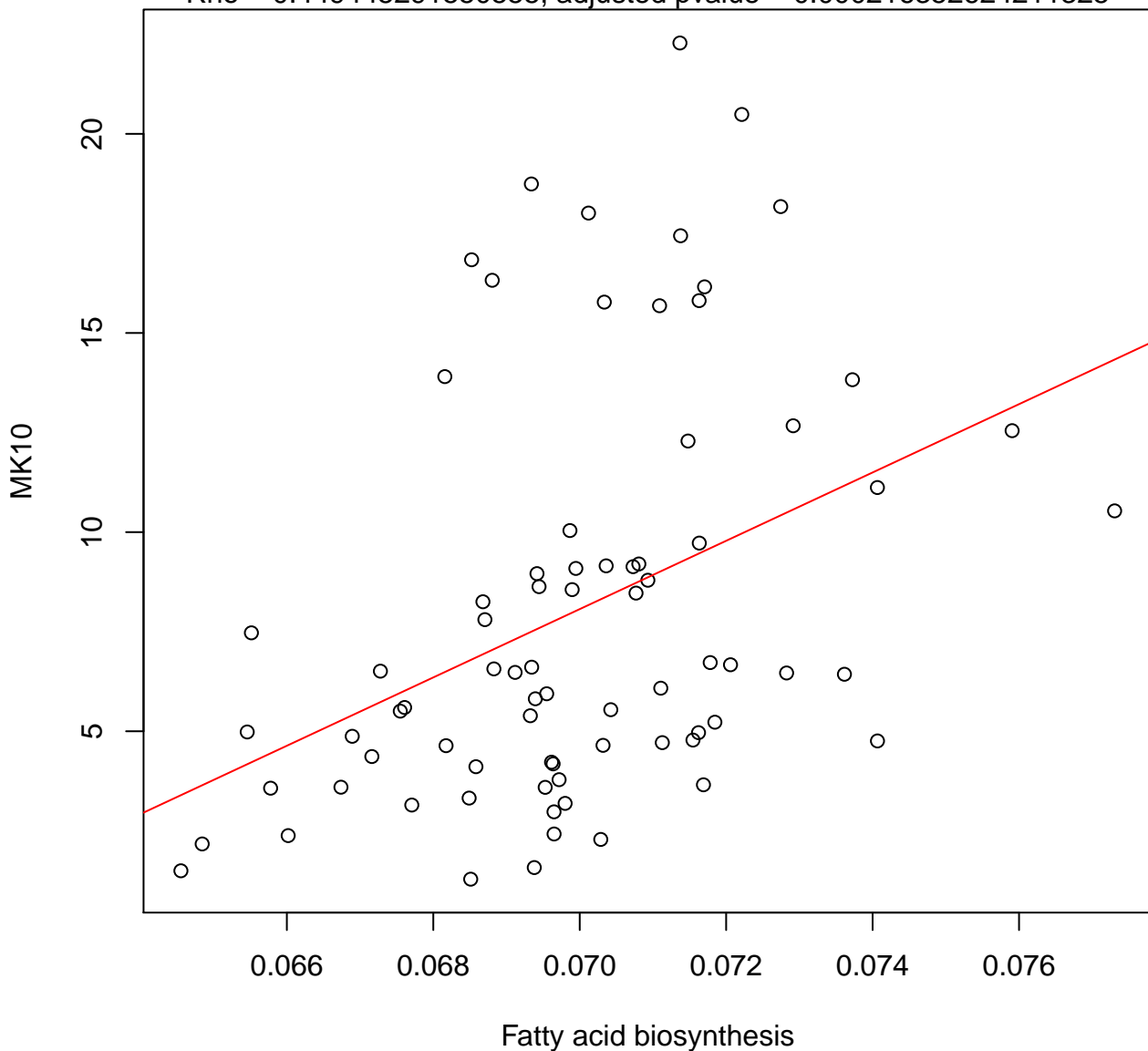
Timepoint 2 , MK10 ~ D-Glutamine and D-glutamate metabolism

Rho = -0.216993532783006, adjusted pvalue = 0.0792336427901025



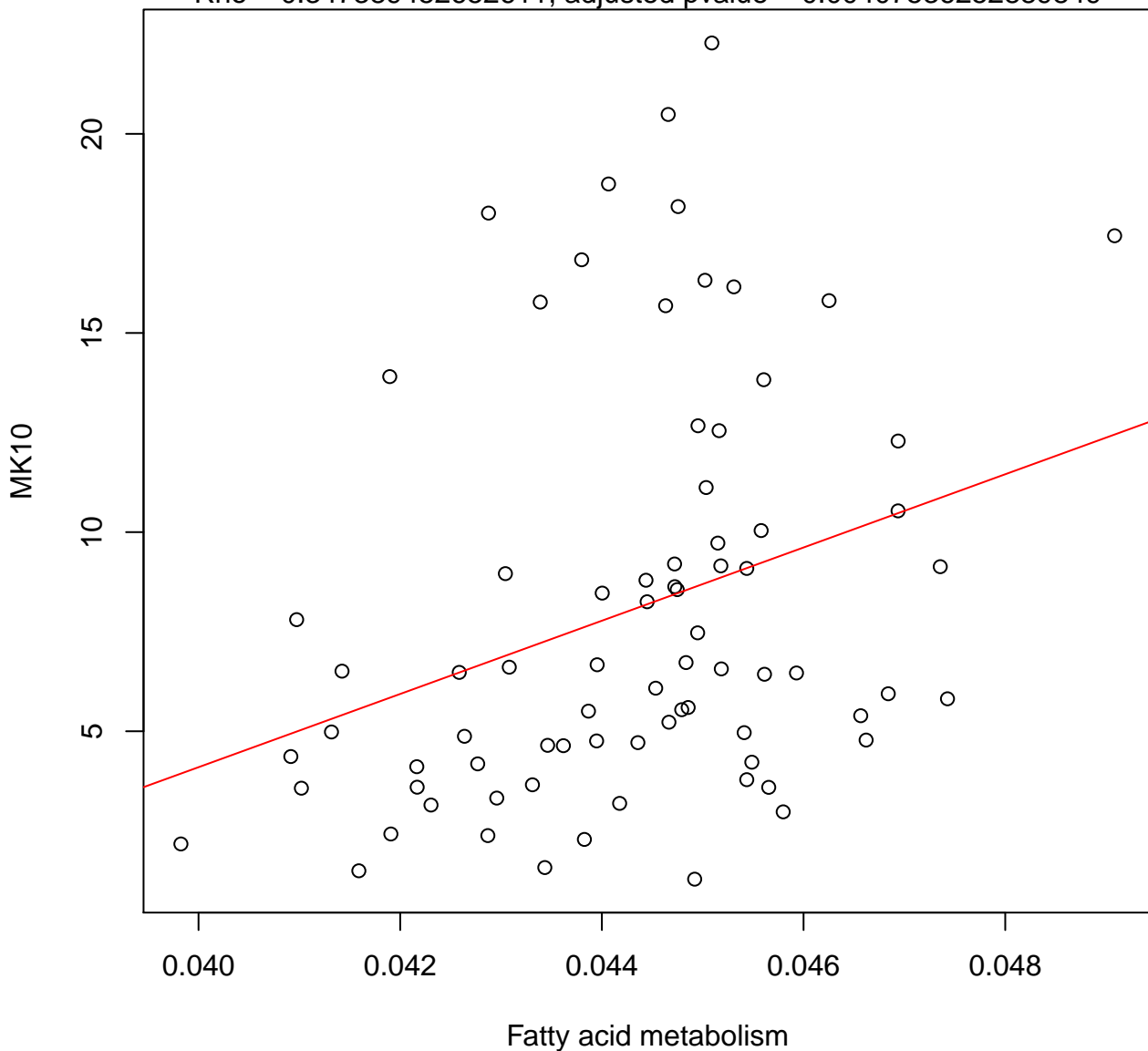
Timepoint 2 , MK10 ~ Fatty acid biosynthesis

Rho = 0.449445291550555, adjusted pvalue = 0.000216352624211325



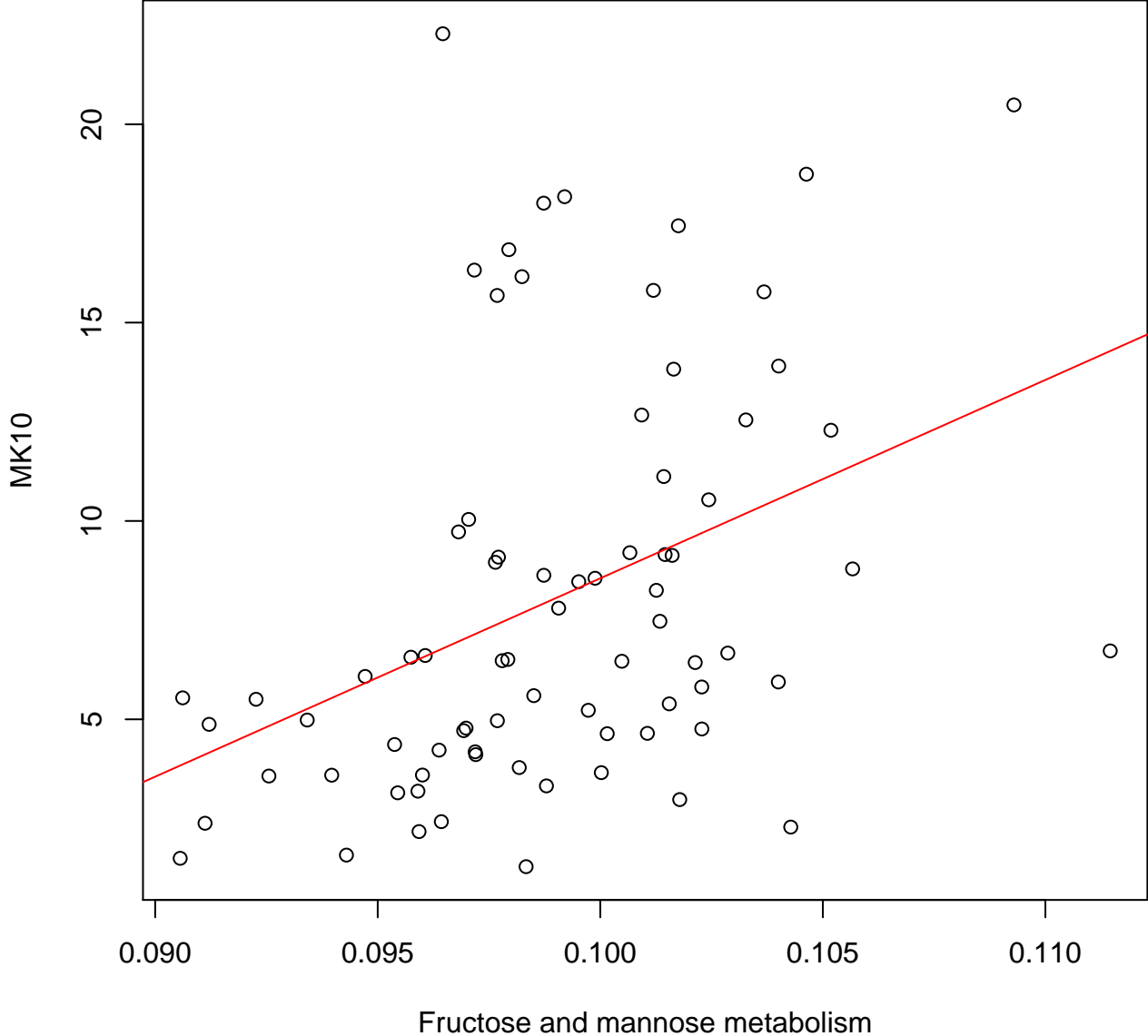
Timepoint 2 , MK10 ~ Fatty acid metabolism

Rho = 0.347389452652611, adjusted pvalue = 0.00407536252889849



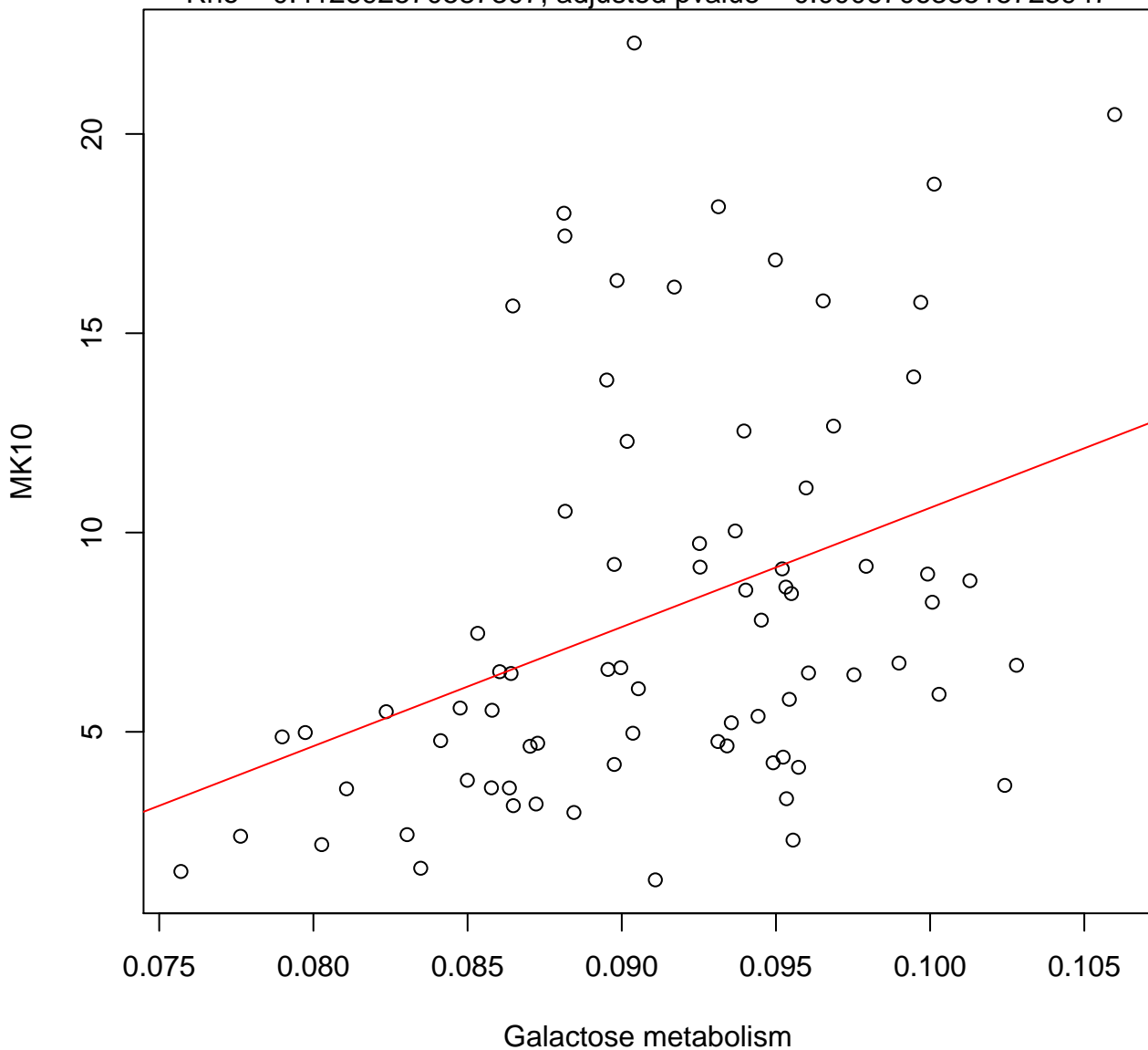
Timepoint 2 , MK10 ~ Fructose and mannose metabolism

Rho = 0.450891214049109, adjusted pvalue = 0.000216352624211325



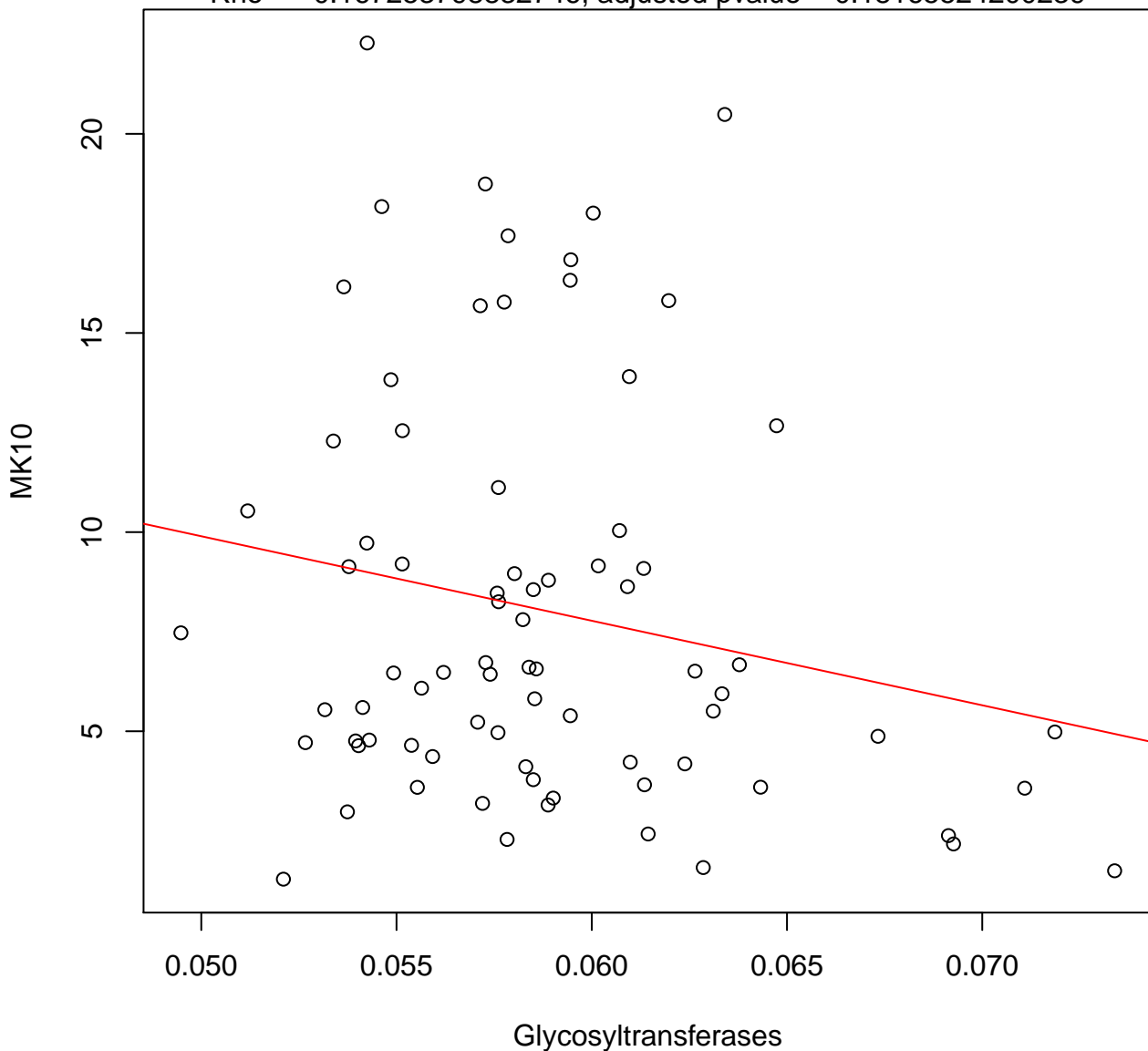
Timepoint 2 , MK10 ~ Galactose metabolism

Rho = 0.412692570587307, adjusted pvalue = 0.000670638515725947



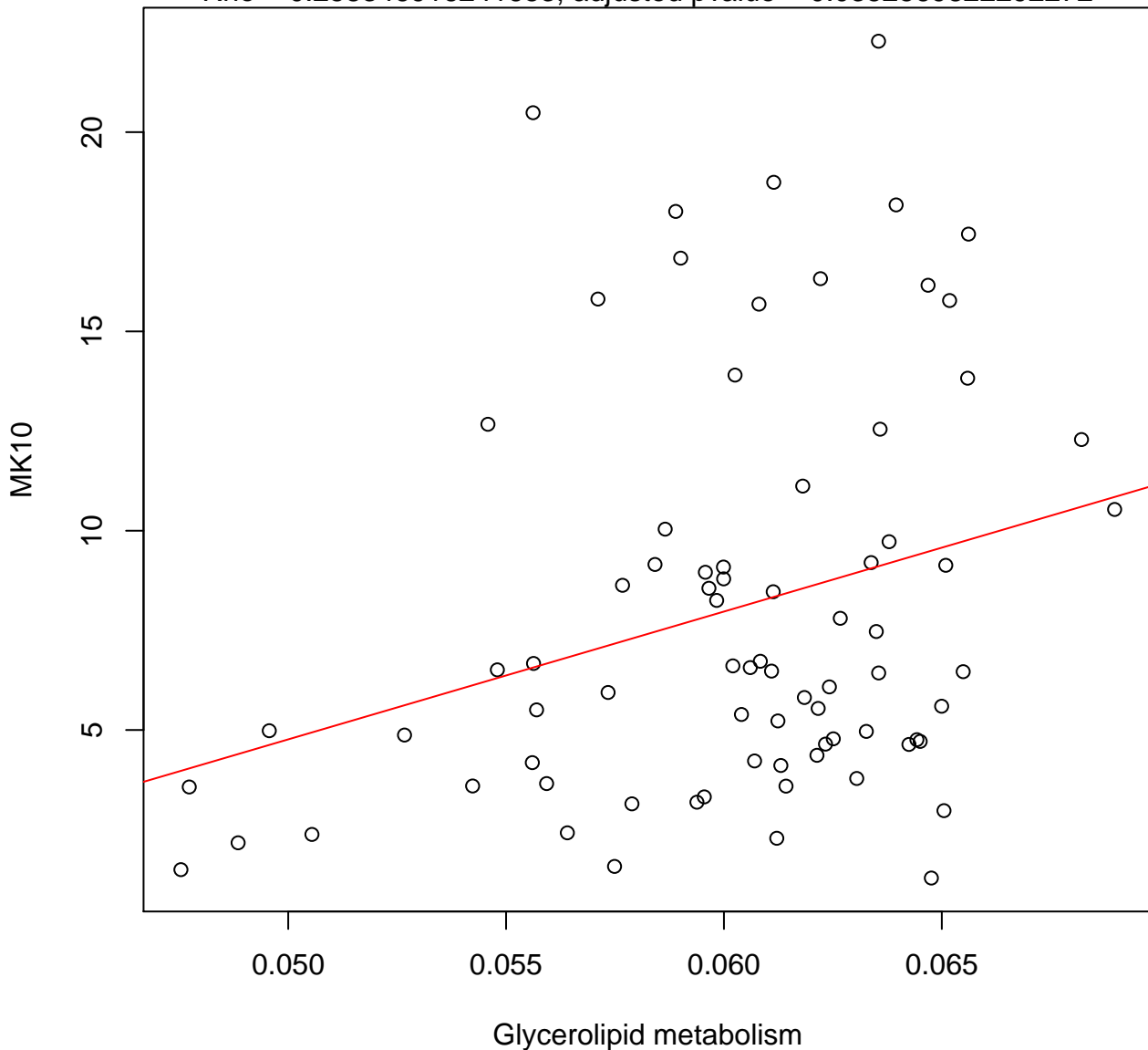
Timepoint 2 , MK10 ~ Glycosyltransferases

Rho = -0.167253798832746 , adjusted pvalue = 0.18165524200239



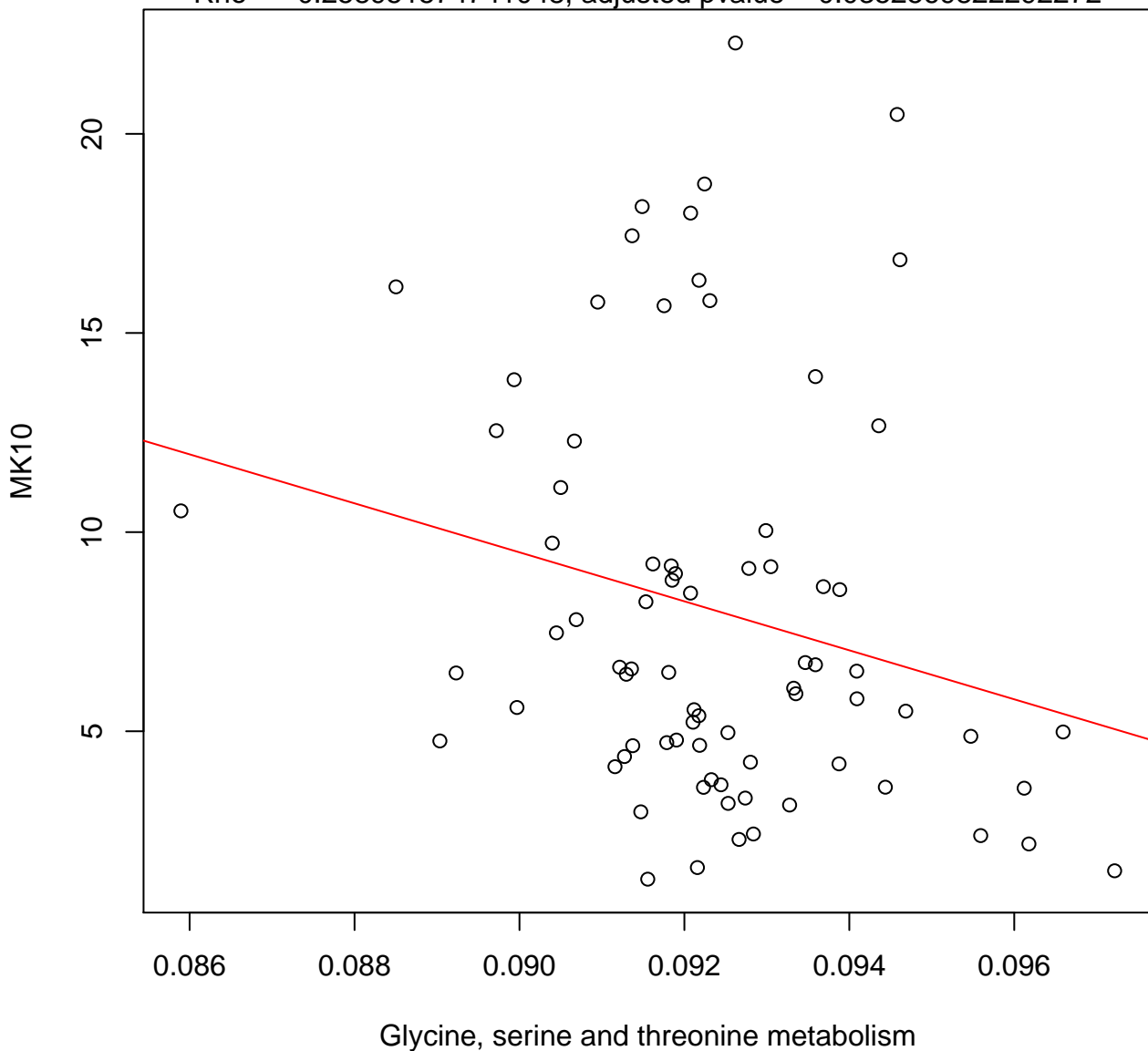
Timepoint 2 , MK10 ~ Glycerolipid metabolism

Rho = 0.258346916241653, adjusted pvalue = 0.0352569822292272



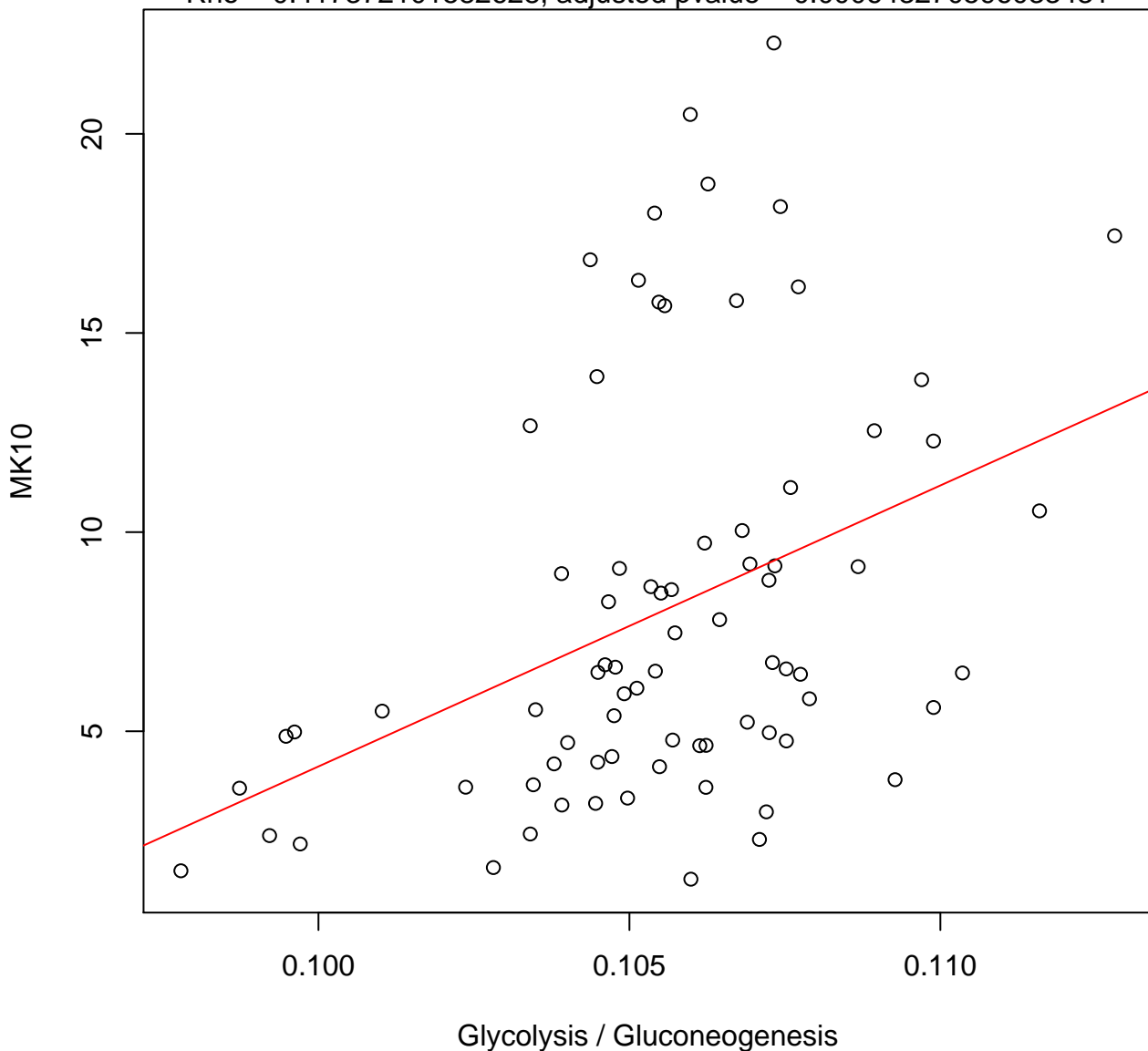
Timepoint 2 , MK10 ~ Glycine, serine and threonine metabolism

Rho = -0.258951574741048 , adjusted pvalue = 0.0352569822292272



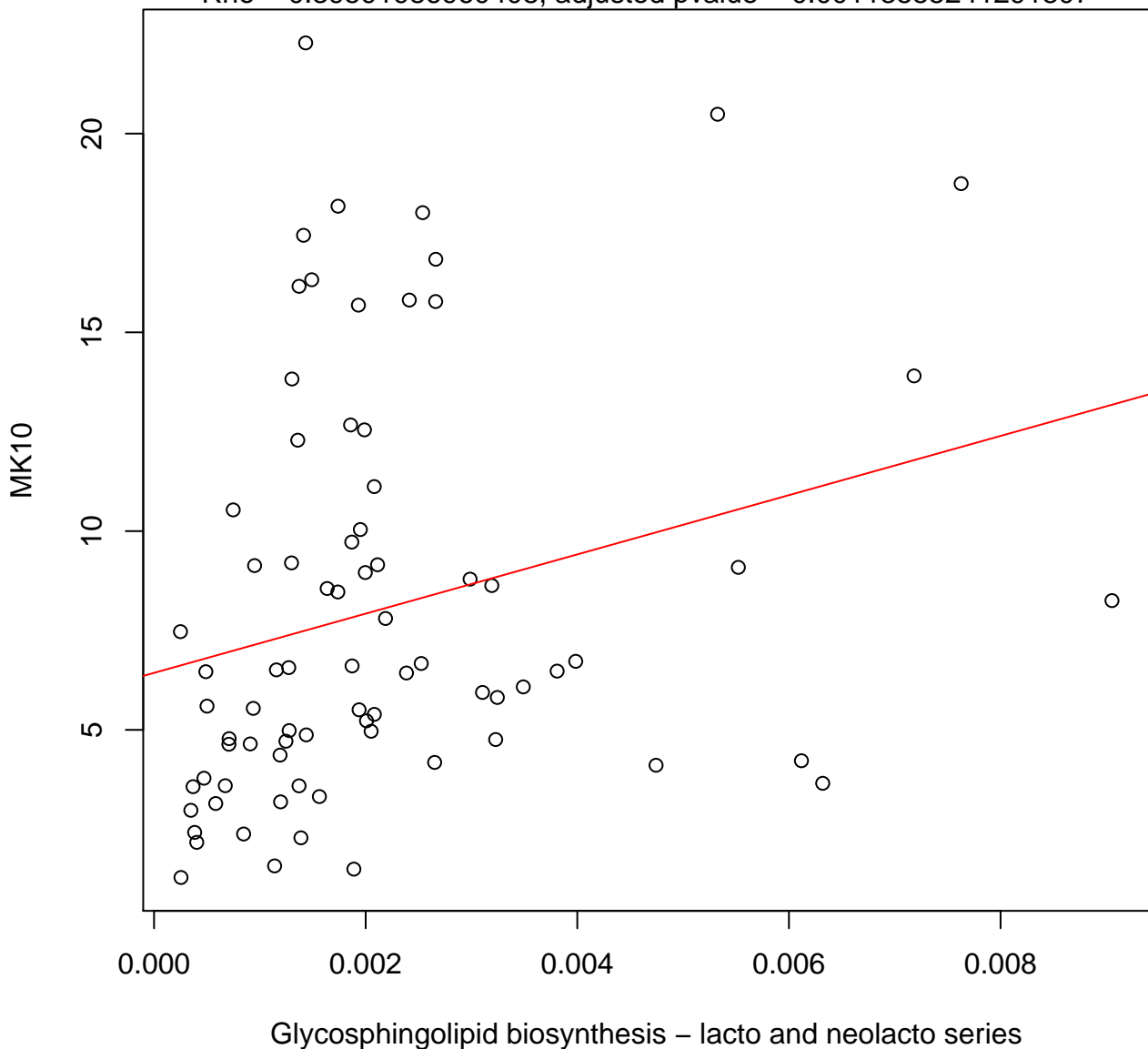
Timepoint 2 , MK10 ~ Glycolysis / Gluconeogenesis

Rho = 0.417372101582628, adjusted pvalue = 0.000643270596033431



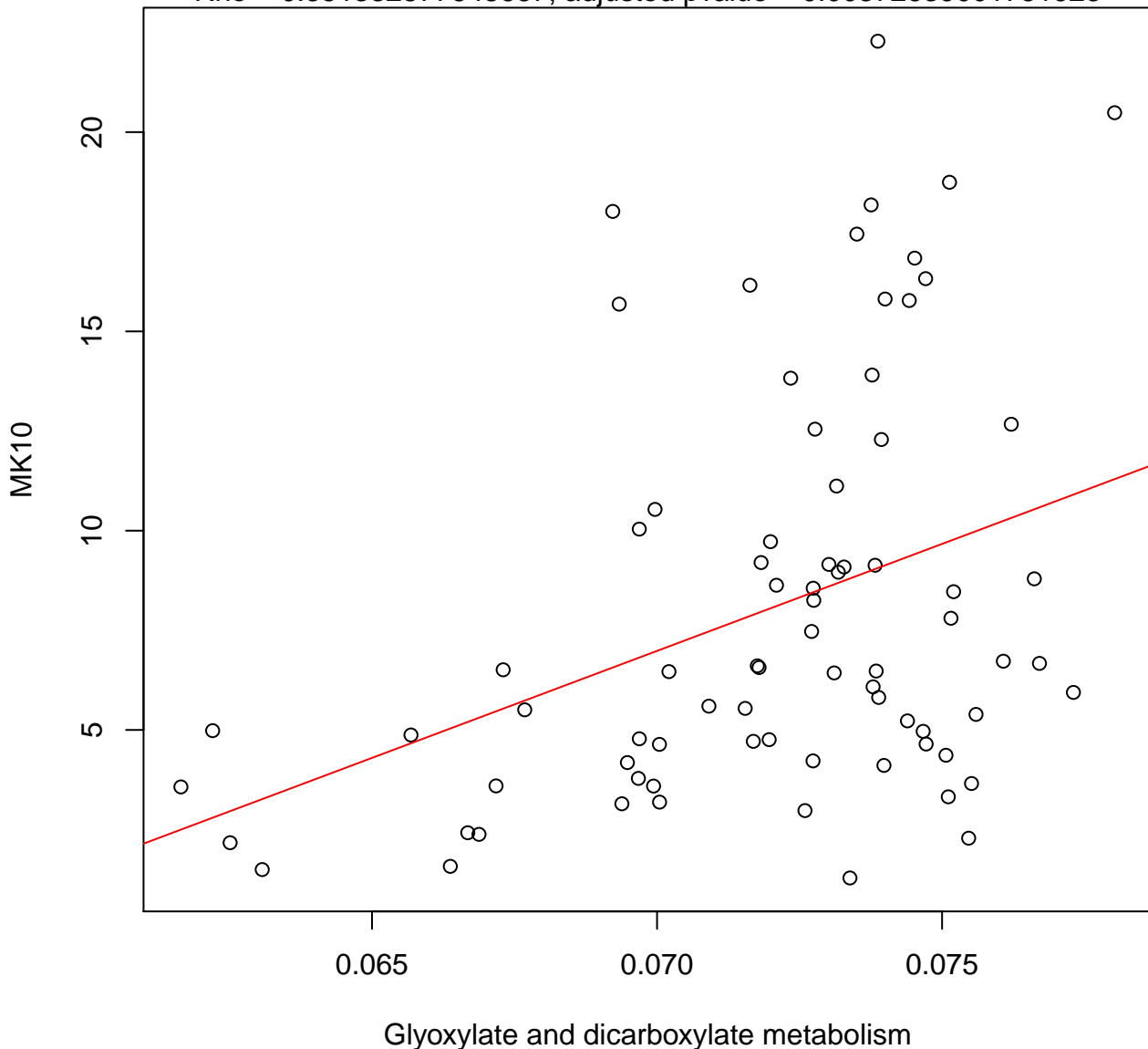
Timepoint 2 , MK10 ~ Glycosphingolipid biosynthesis – lacto and neolacto s

Rho = 0.39591986960408, adjusted pvalue = 0.00113555241291807



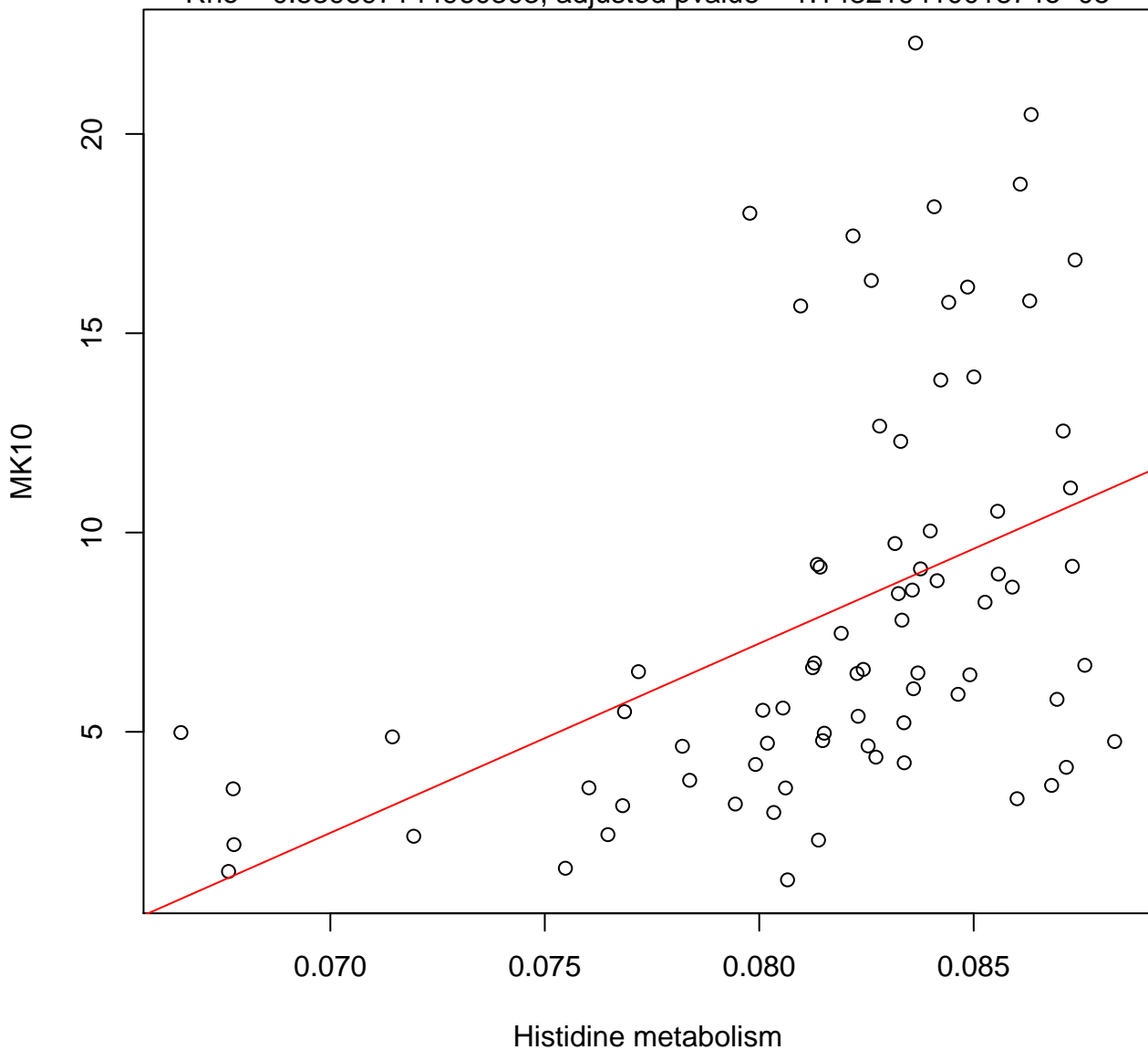
Timepoint 2 , MK10 ~ Glyoxylate and dicarboxylate metabolism

Rho = 0.351332877648667, adjusted pvalue = 0.00372639001751923



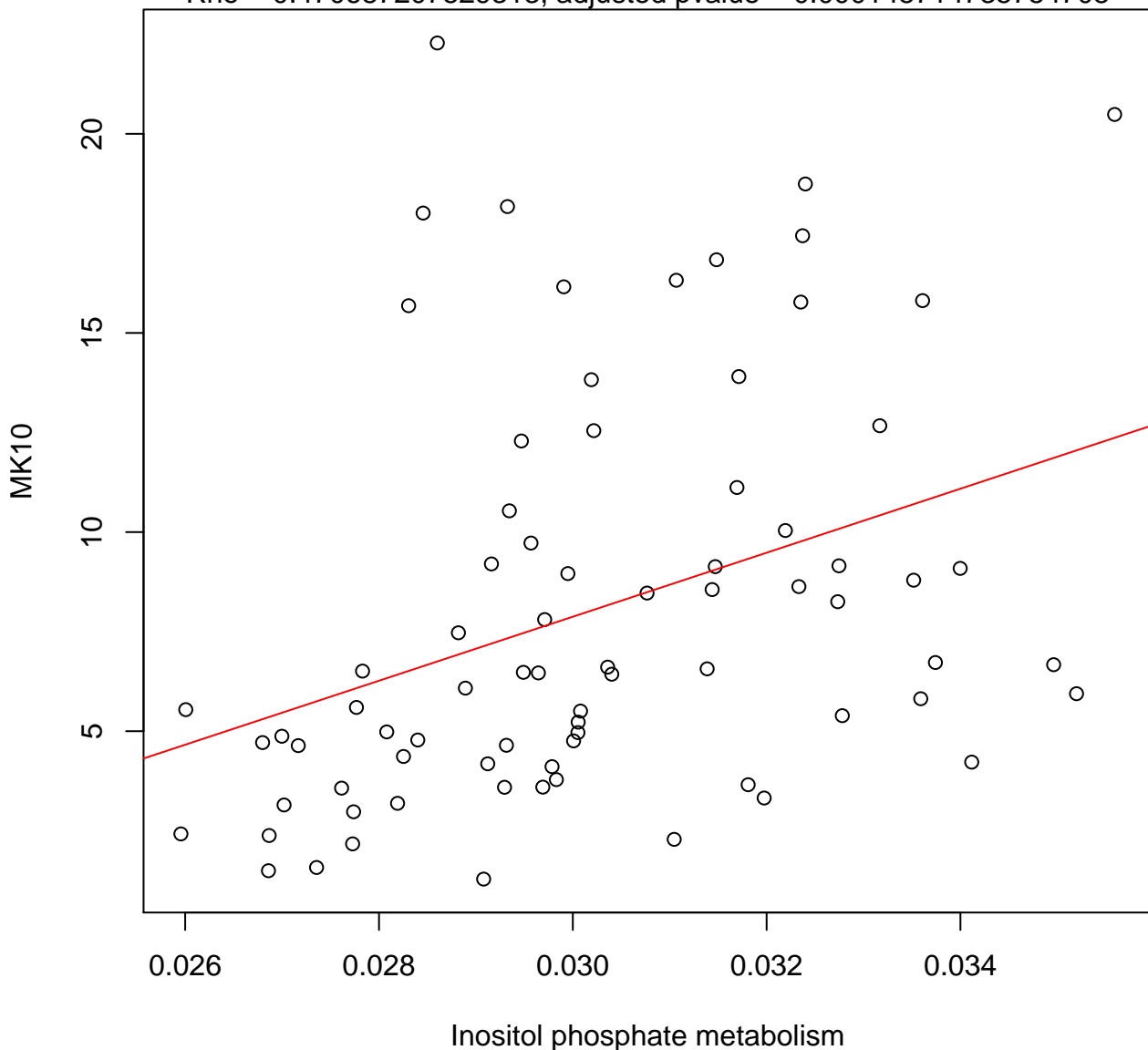
Timepoint 2 , MK10 ~ Histidine metabolism

Rho = 0.539697144960303, adjusted pvalue = 1.14321941001874e-05



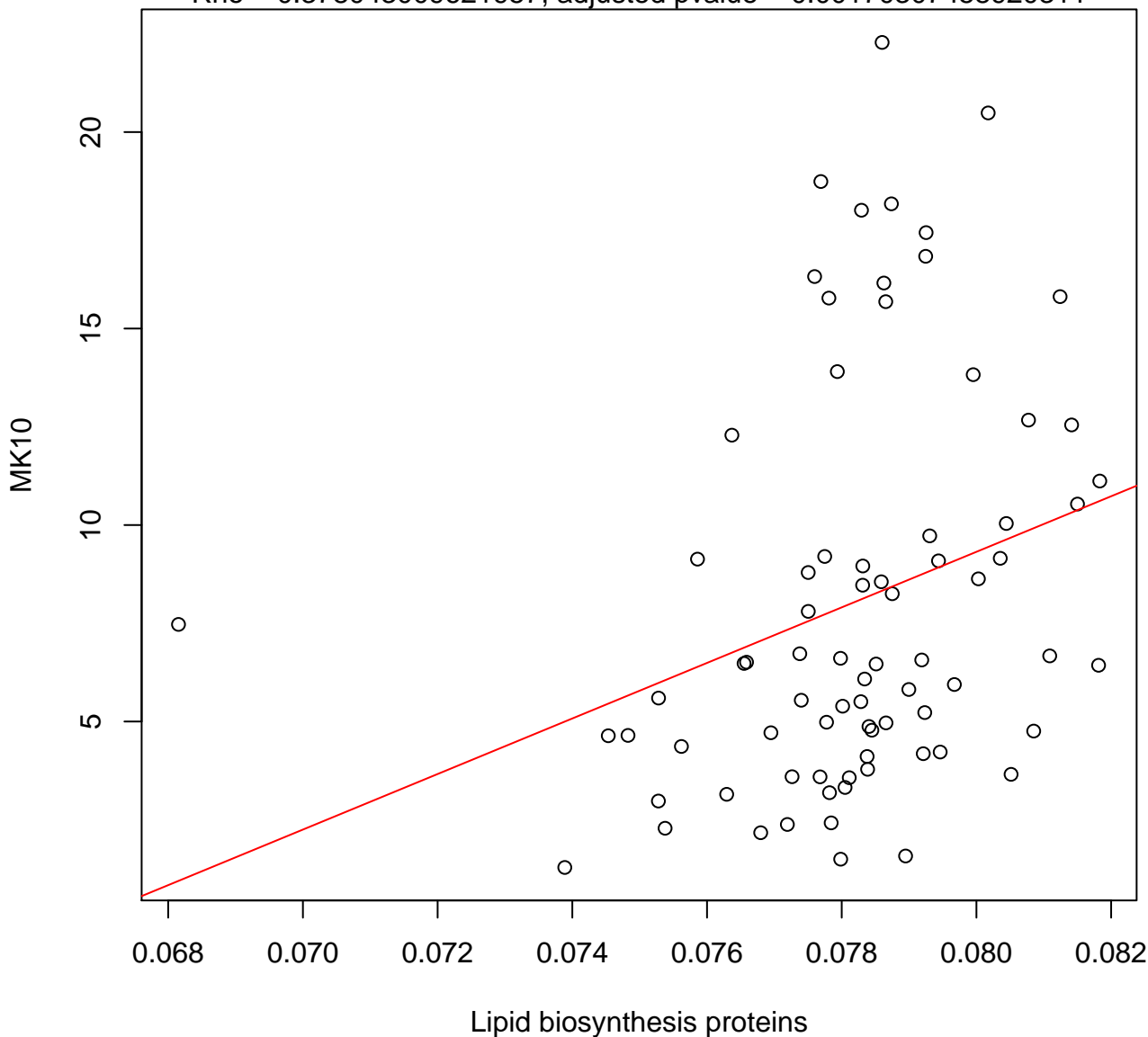
Timepoint 2 , MK10 ~ Inositol phosphate metabolism

Rho = 0.470687207529313, adjusted pvalue = 0.000145714735754708



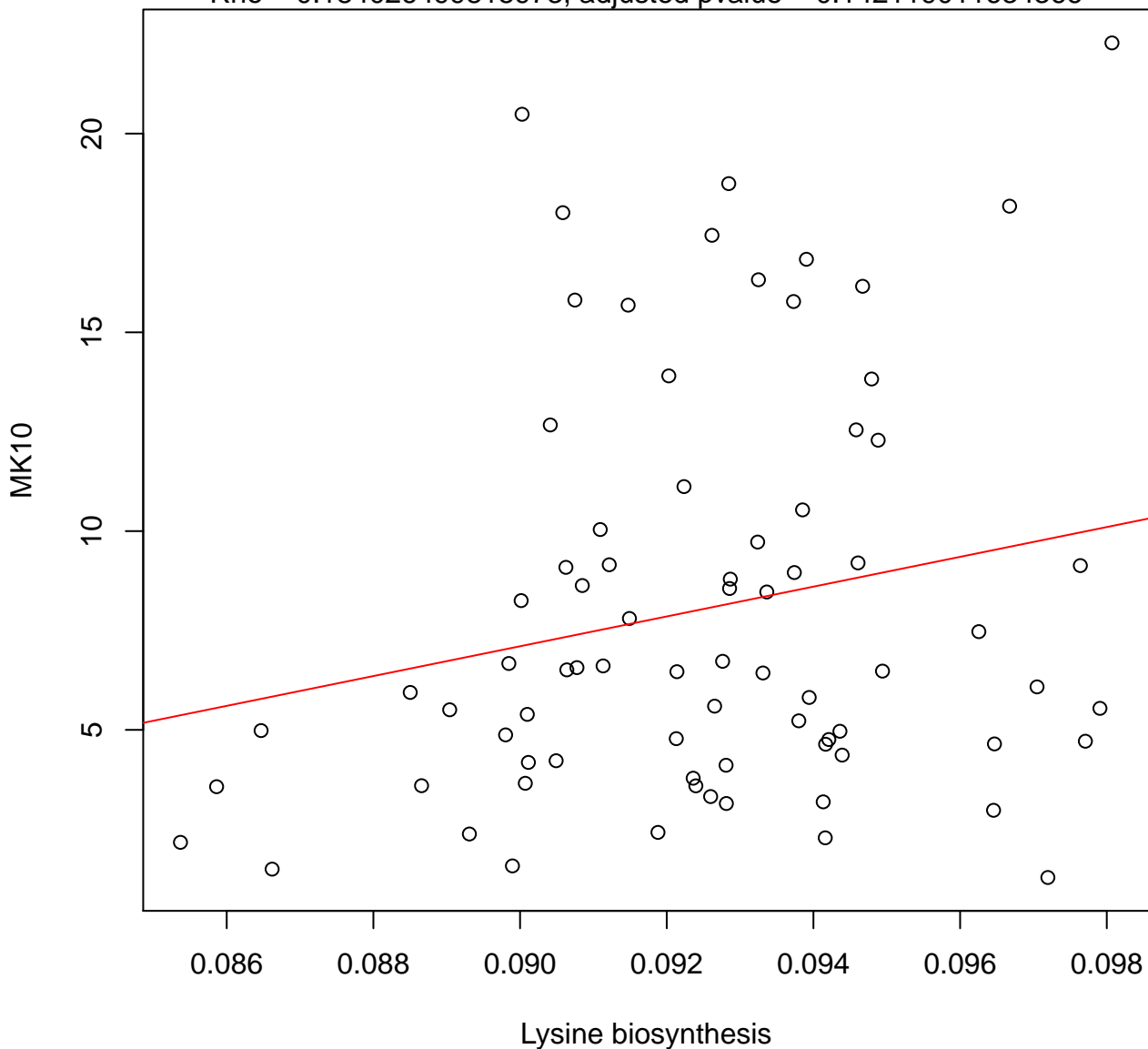
Timepoint 2 , MK10 ~ Lipid biosynthesis proteins

Rho = 0.378043009621957, adjusted pvalue = 0.00170307458920311



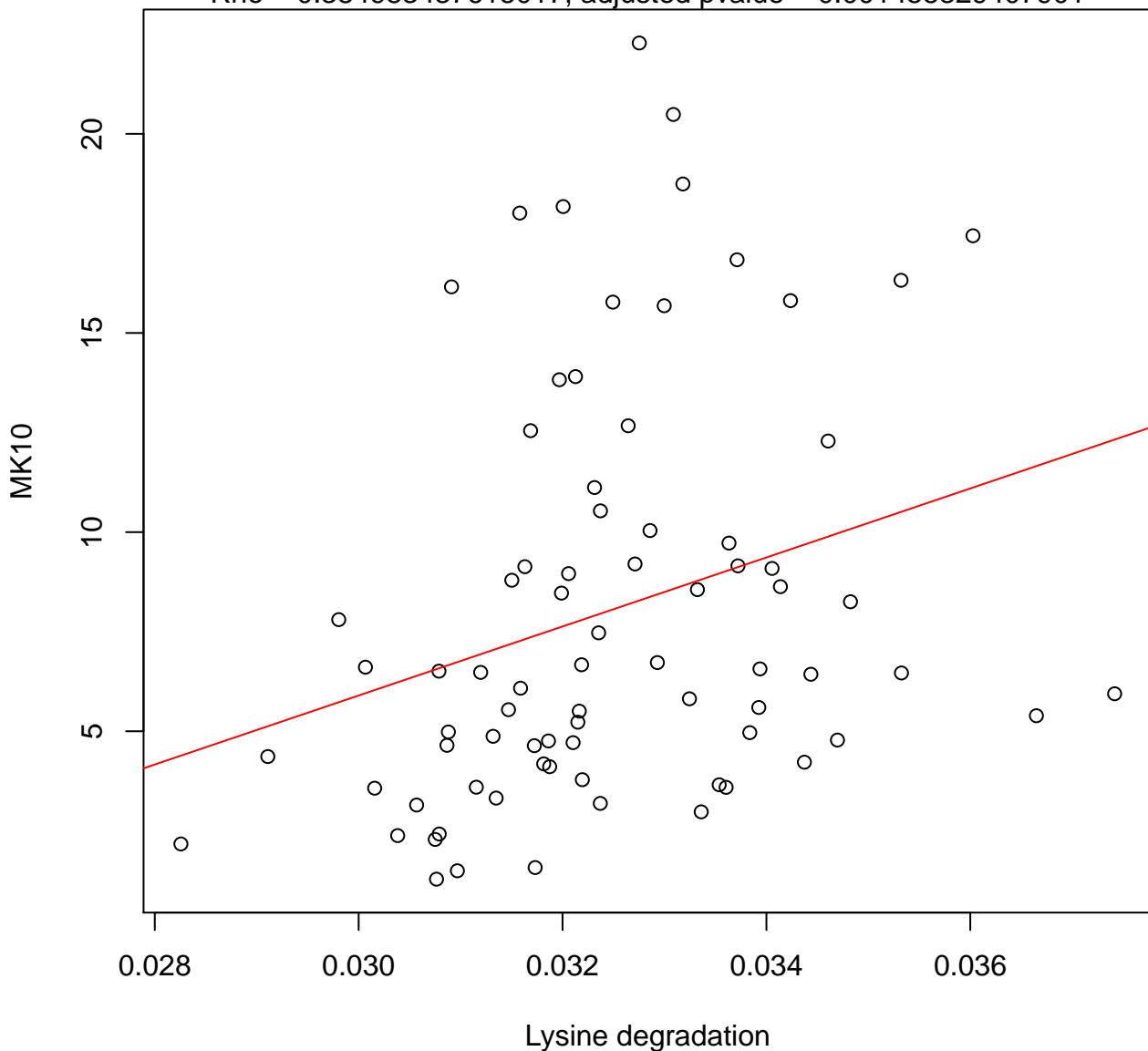
Timepoint 2 , MK10 ~ Lysine biosynthesis

Rho = 0.184026499815973, adjusted pvalue = 0.142119011634366



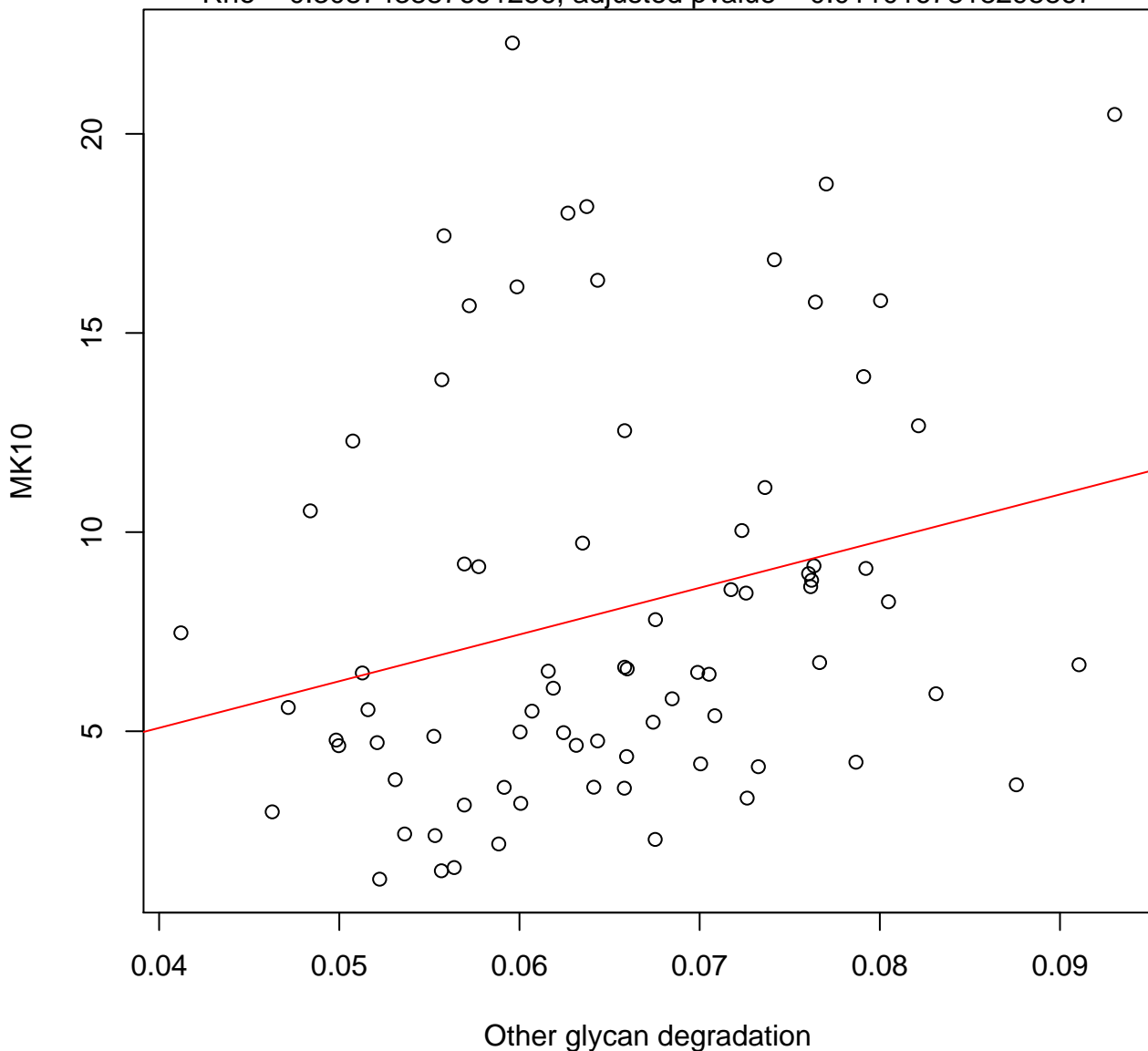
Timepoint 2 , MK10 ~ Lysine degradation

Rho = 0.384983437615017, adjusted pvalue = 0.001455329407901



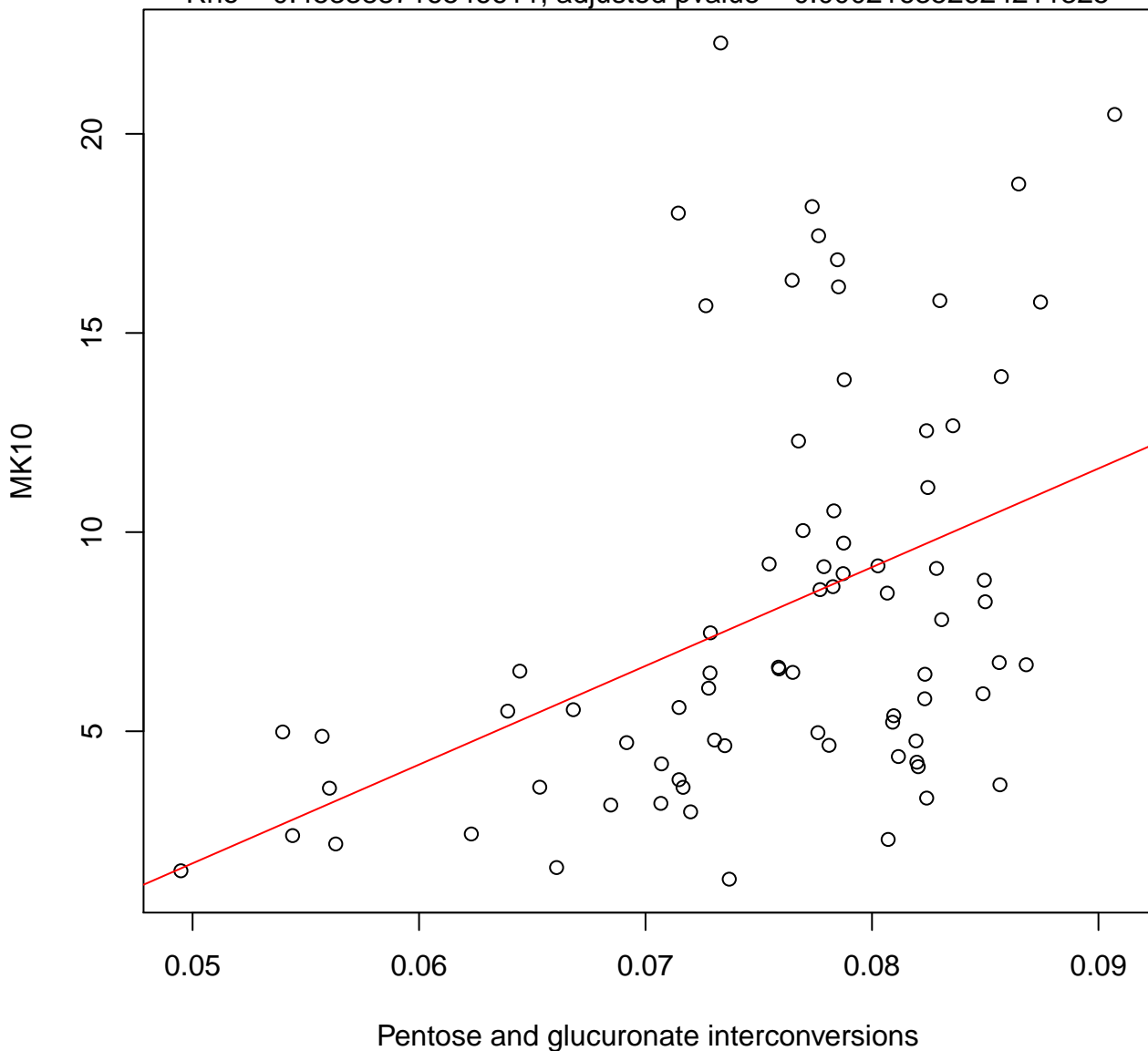
Timepoint 2 , MK10 ~ Other glycan degradation

Rho = 0.308743887691256, adjusted pvalue = 0.0110167318295867



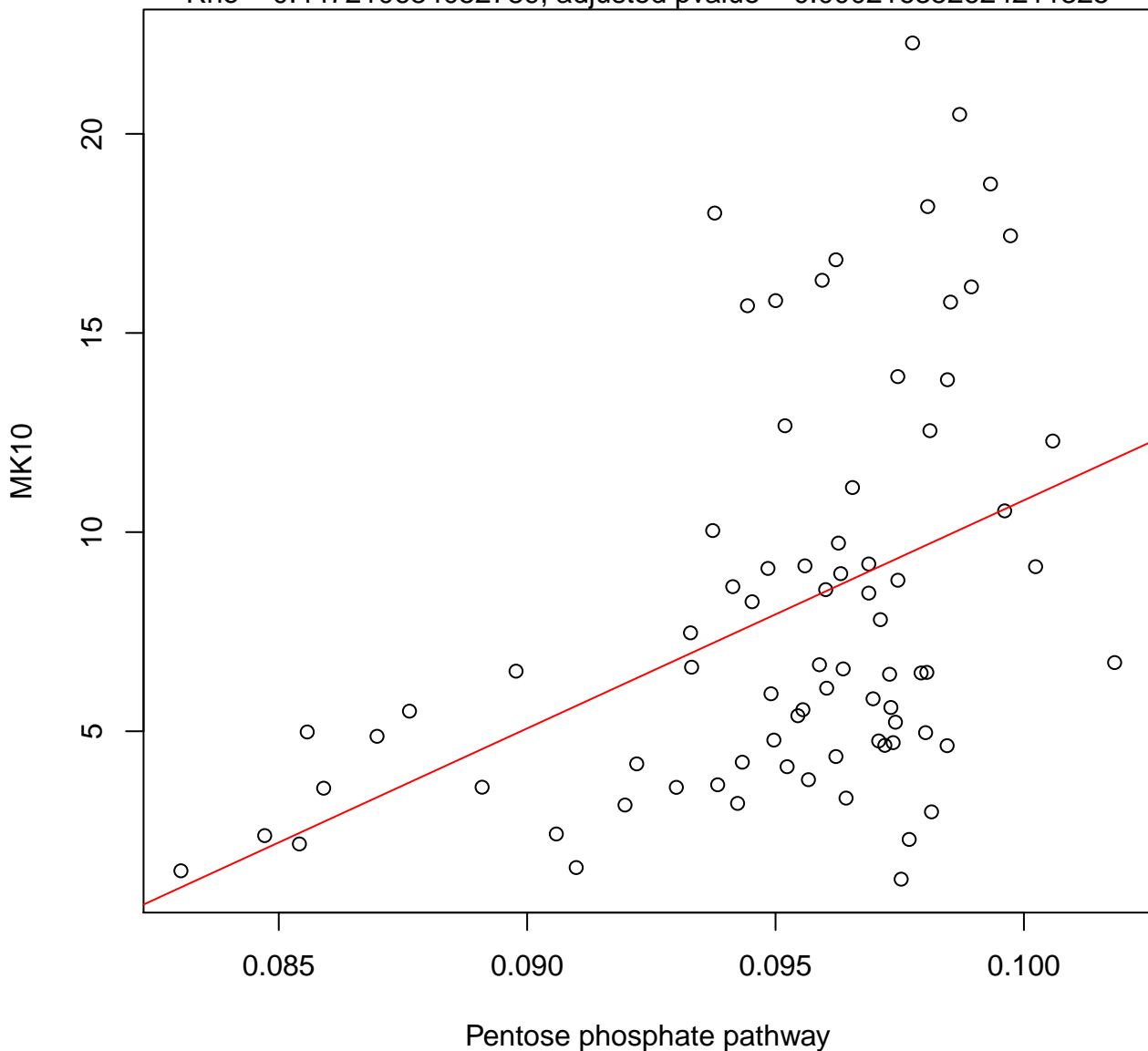
Timepoint 2 , MK10 ~ Pentose and glucuronate interconversions

Rho = 0.453388716546611, adjusted pvalue = 0.000216352624211325



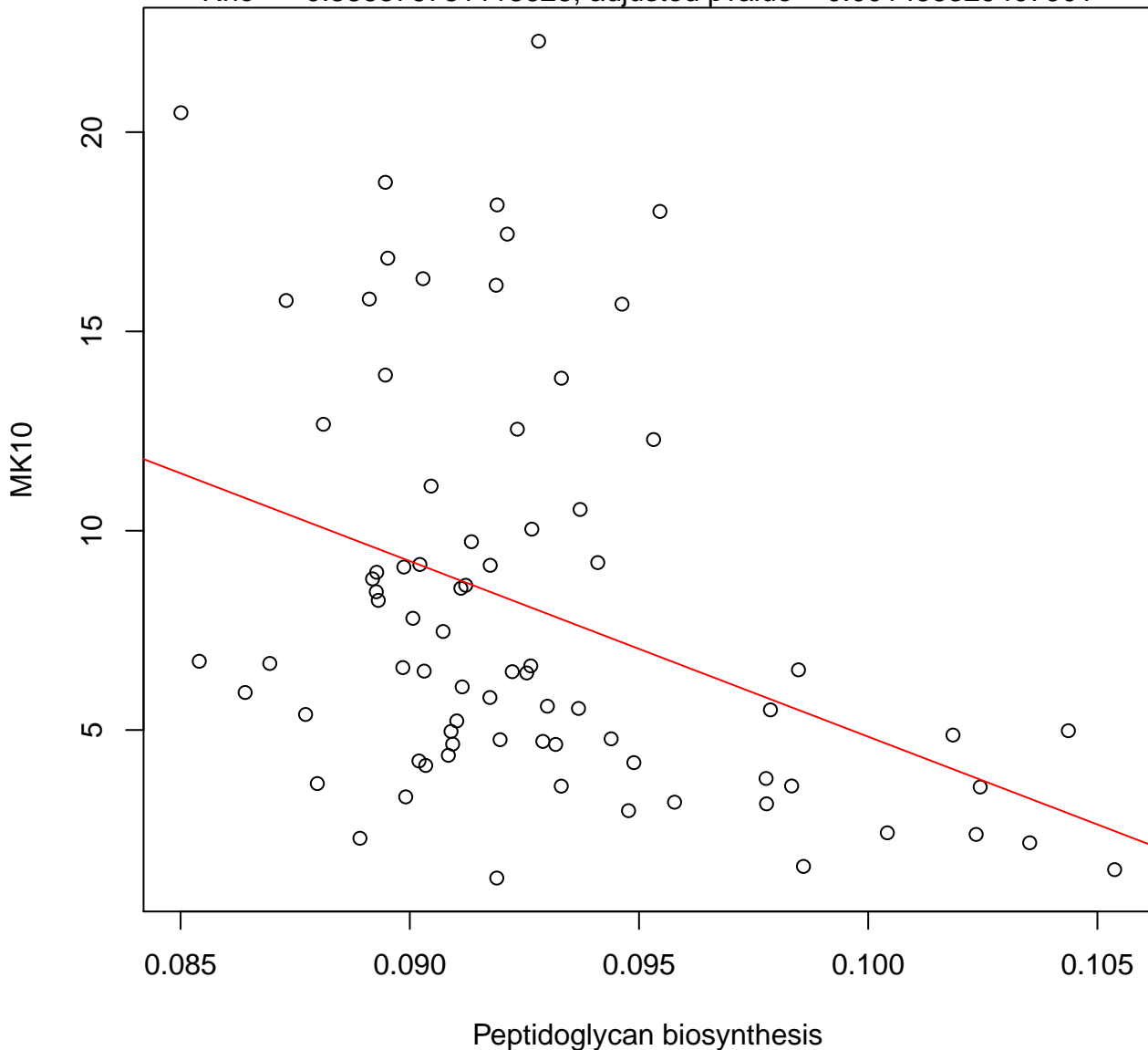
Timepoint 2 , MK10 ~ Pentose phosphate pathway

Rho = 0.447210684052789, adjusted pvalue = 0.000216352624211325



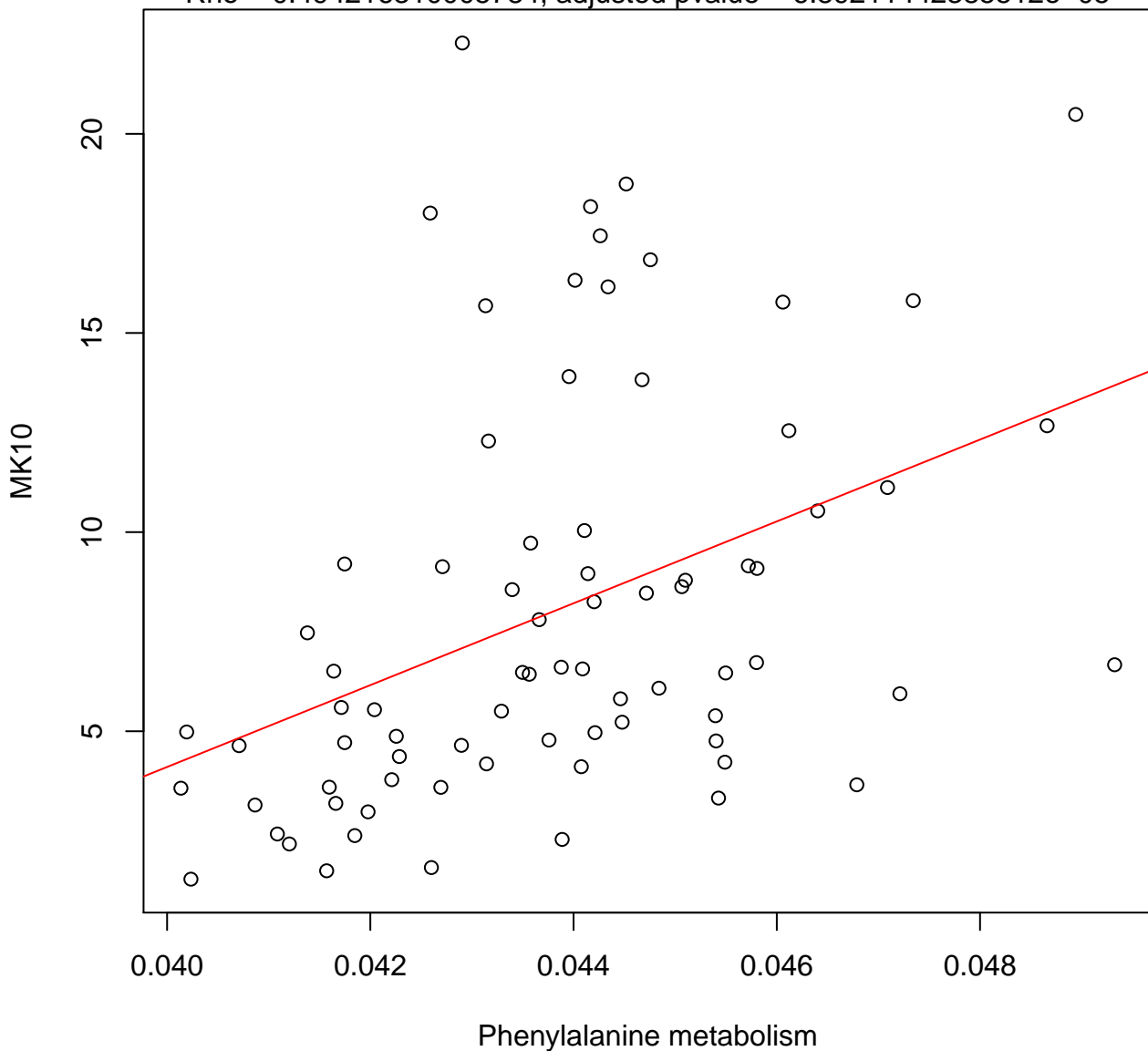
Timepoint 2 , MK10 ~ Peptidoglycan biosynthesis

Rho = -0.386376781113623, adjusted pvalue = 0.001455329407901



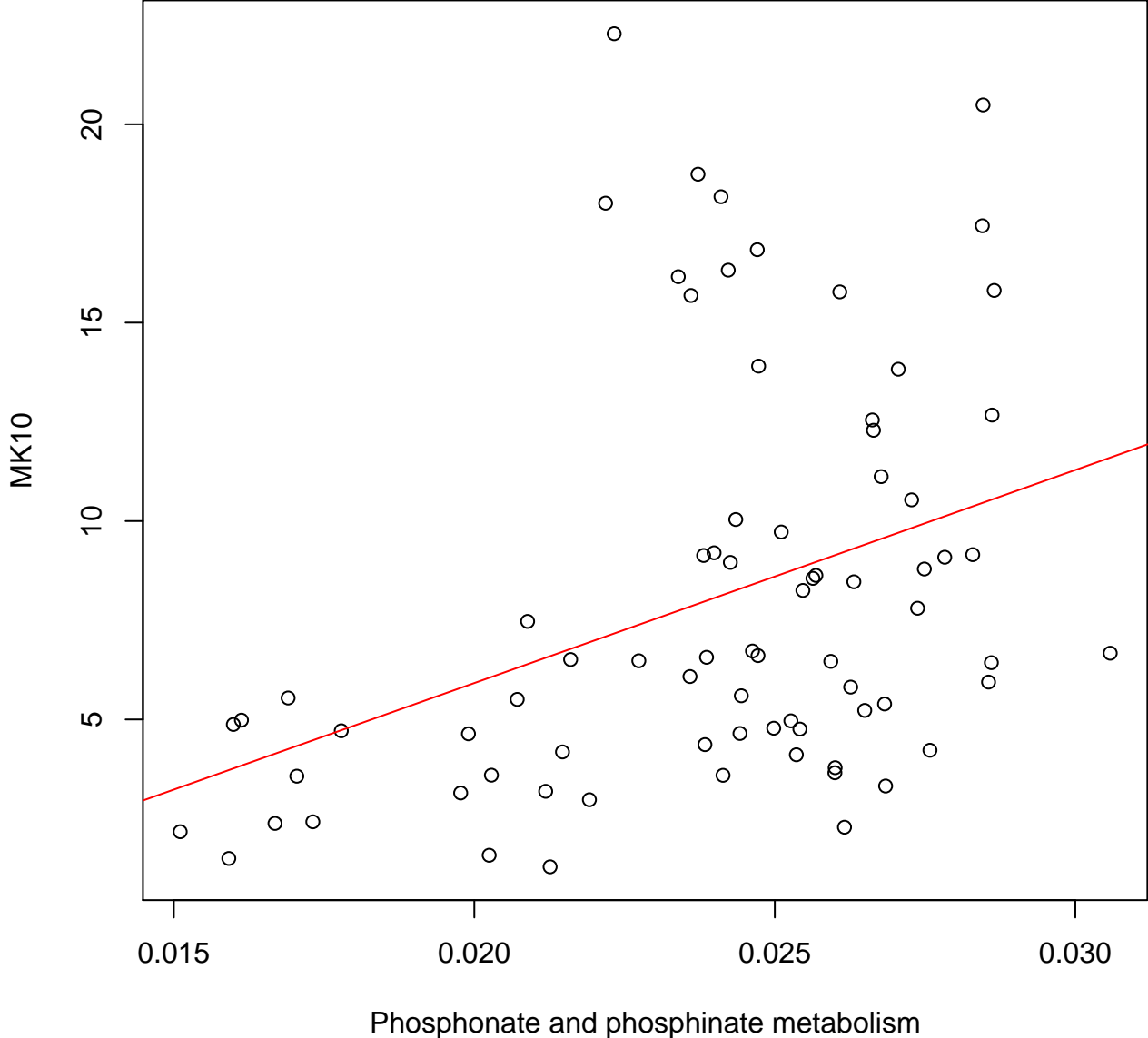
Timepoint 2 , MK10 ~ Phenylalanine metabolism

Rho = 0.494216310005784, adjusted pvalue = 6.89211442385512e-05



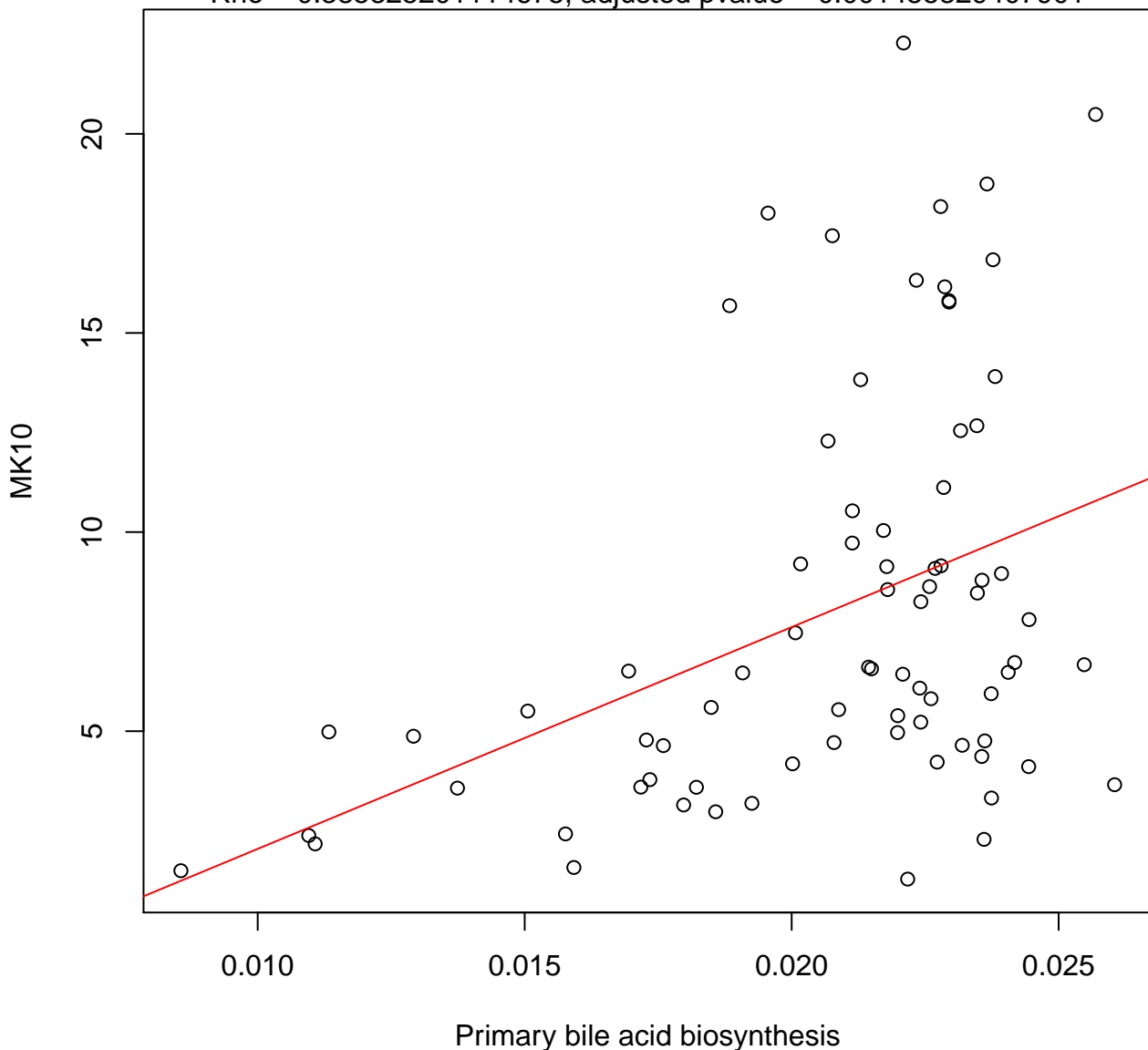
Timepoint 2 , MK10 ~ Phosphonate and phosphinate metabolism

Rho = 0.415374099584626, adjusted pvalue = 0.000643270596033431



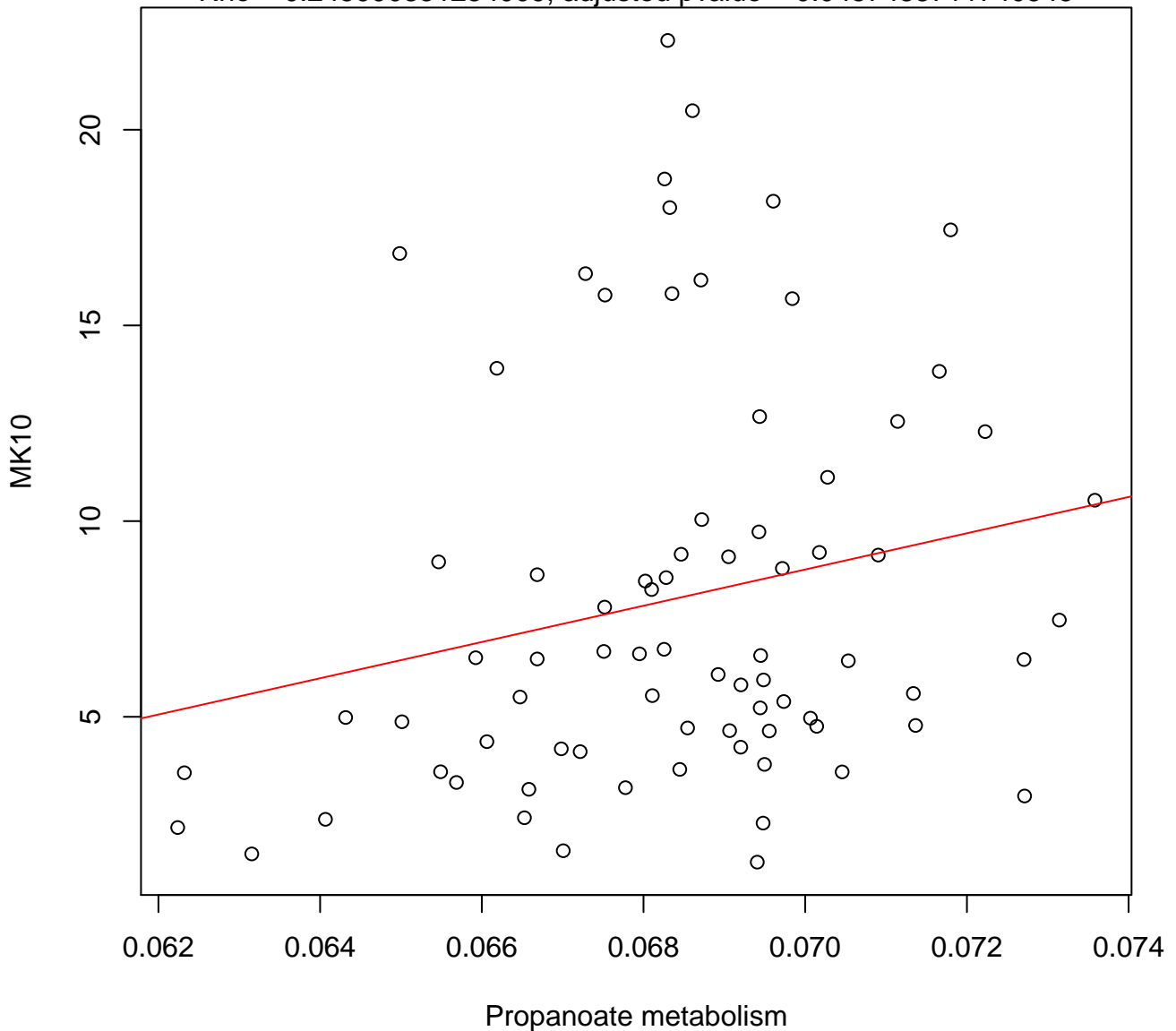
Timepoint 2 , MK10 ~ Primary bile acid biosynthesis

Rho = 0.385325201114675, adjusted pvalue = 0.001455329407901



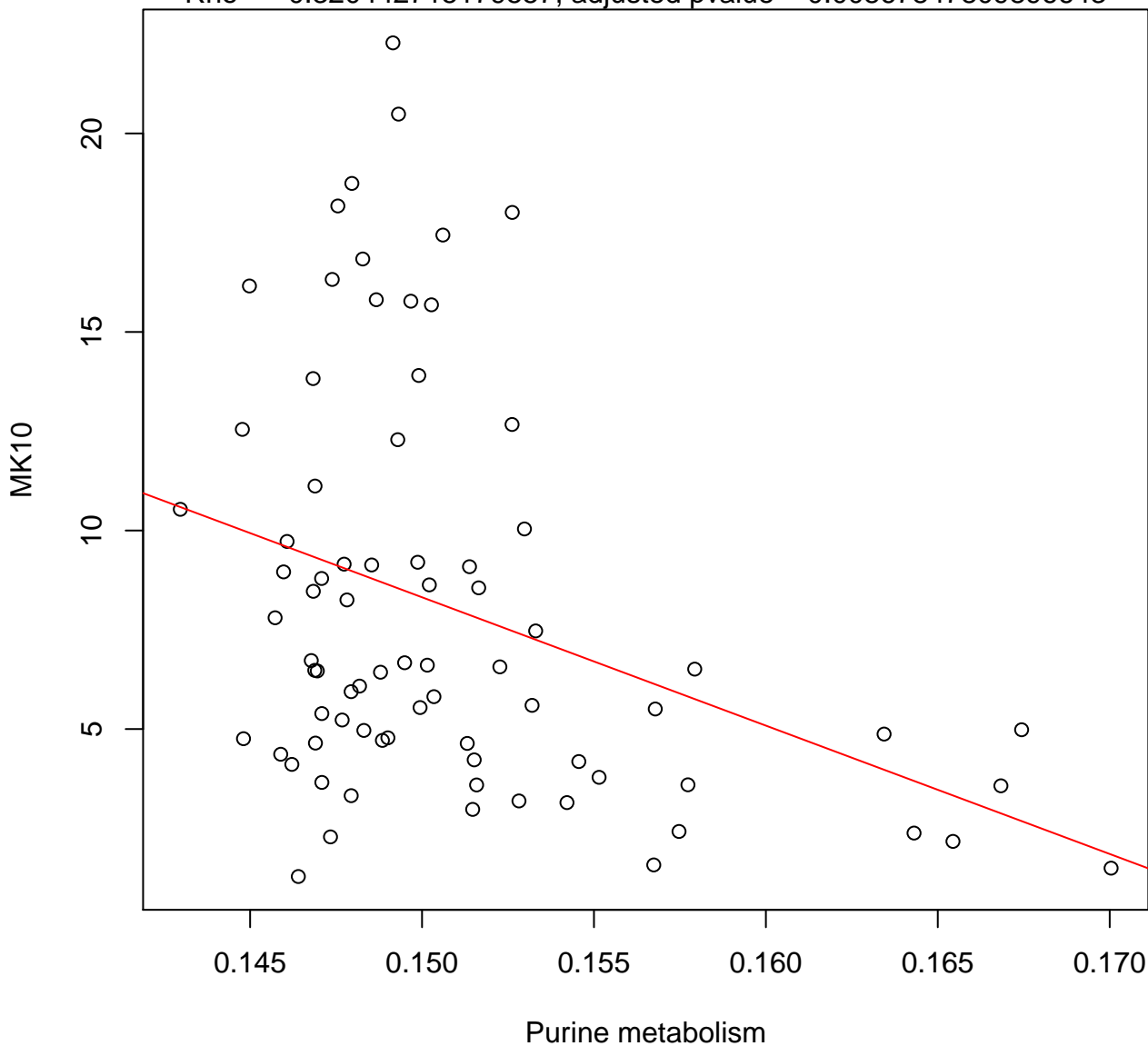
Timepoint 2 , MK10 ~ Propanoate metabolism

Rho = 0.245990851254009, adjusted pvalue = 0.0457488711740545



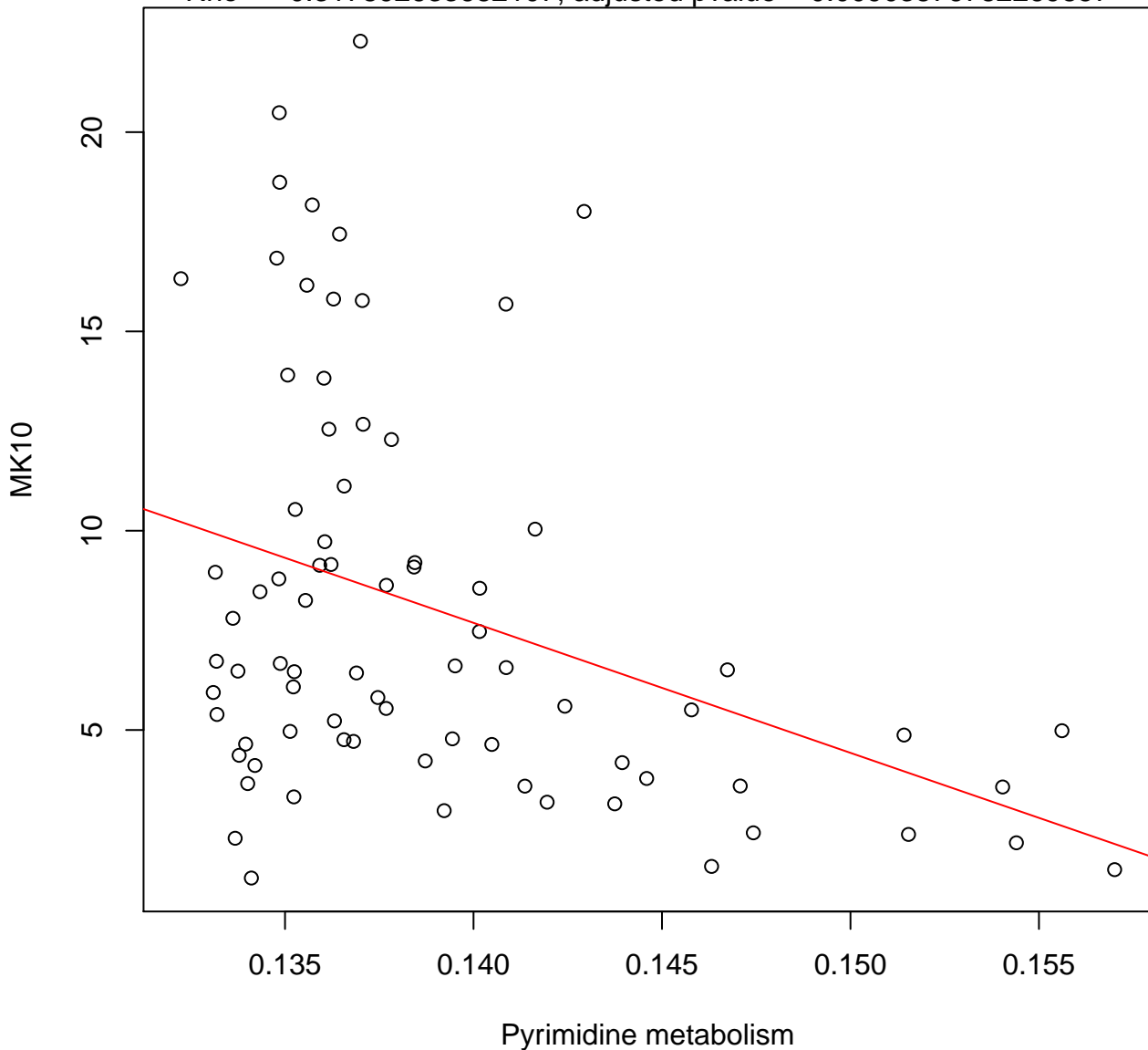
Timepoint 2 , MK10 ~ Purine metabolism

Rho = -0.320442715179557 , adjusted pvalue = 0.00867847809896643



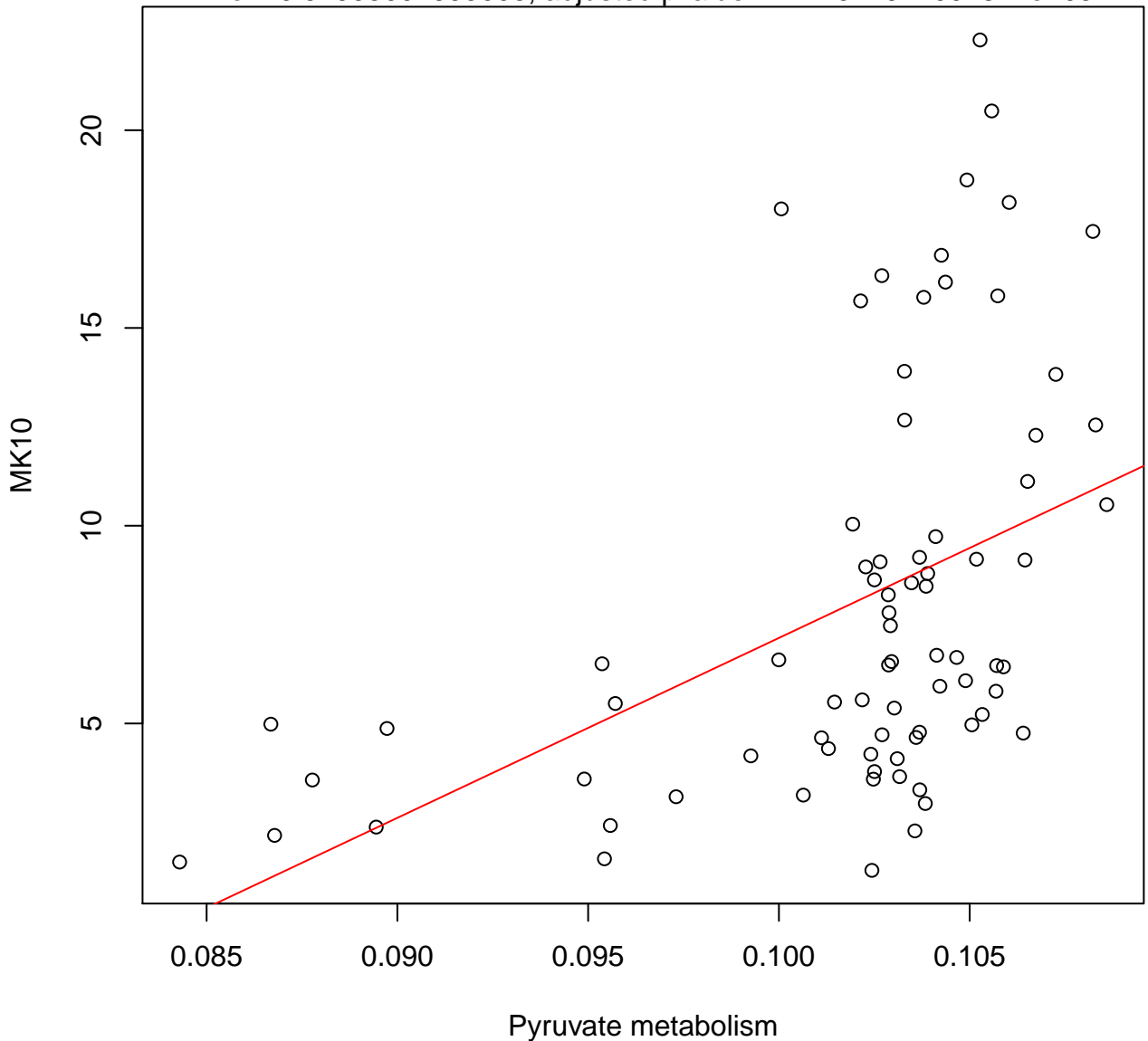
Timepoint 2 , MK10 ~ Pyrimidine metabolism

Rho = -0.317892633682107 , adjusted pvalue = 0.00903876782269857



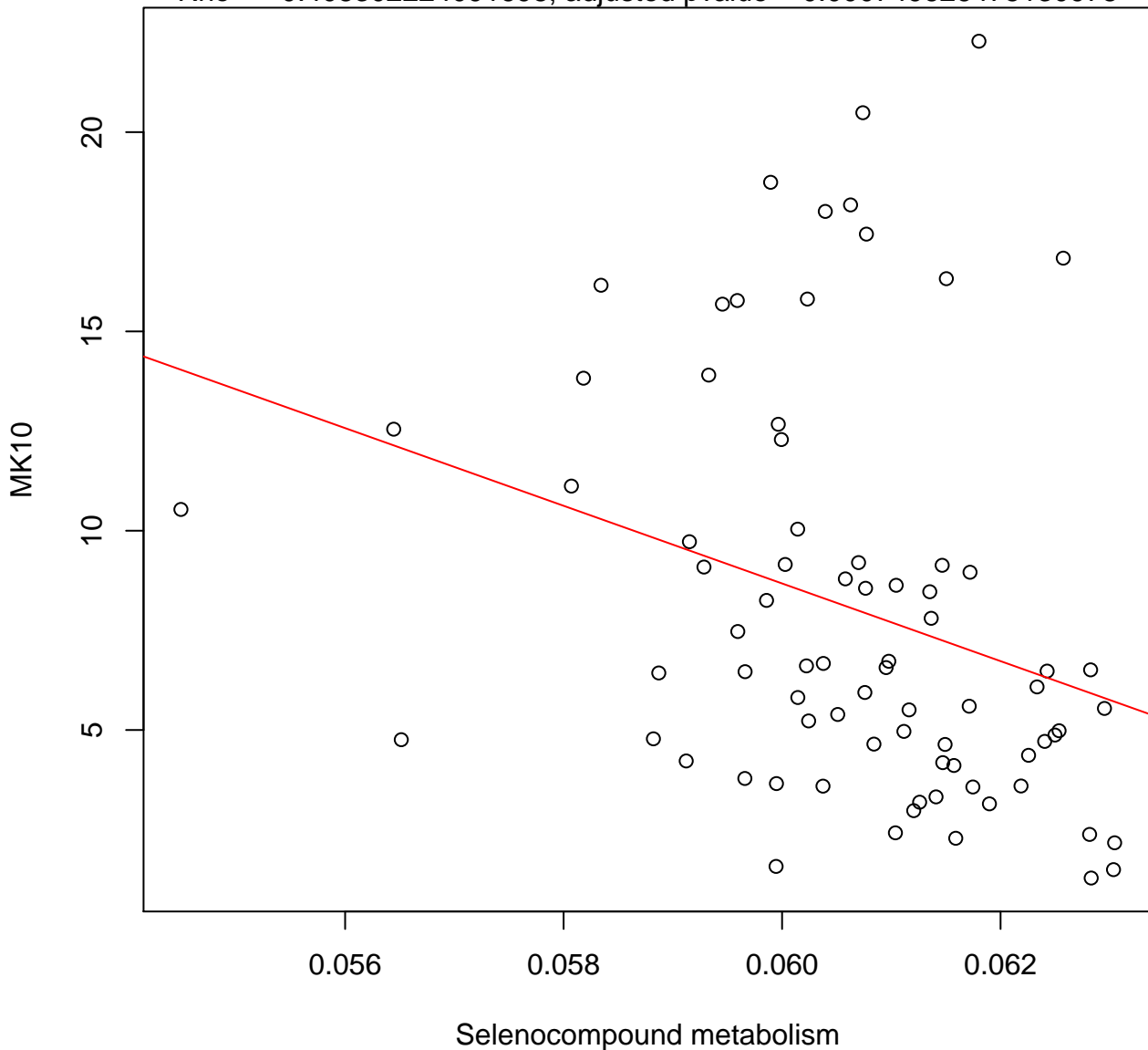
Timepoint 2 , MK10 ~ Pyruvate metabolism

Rho = 0.54995004995005, adjusted pvalue = 1.14321941001874e-05



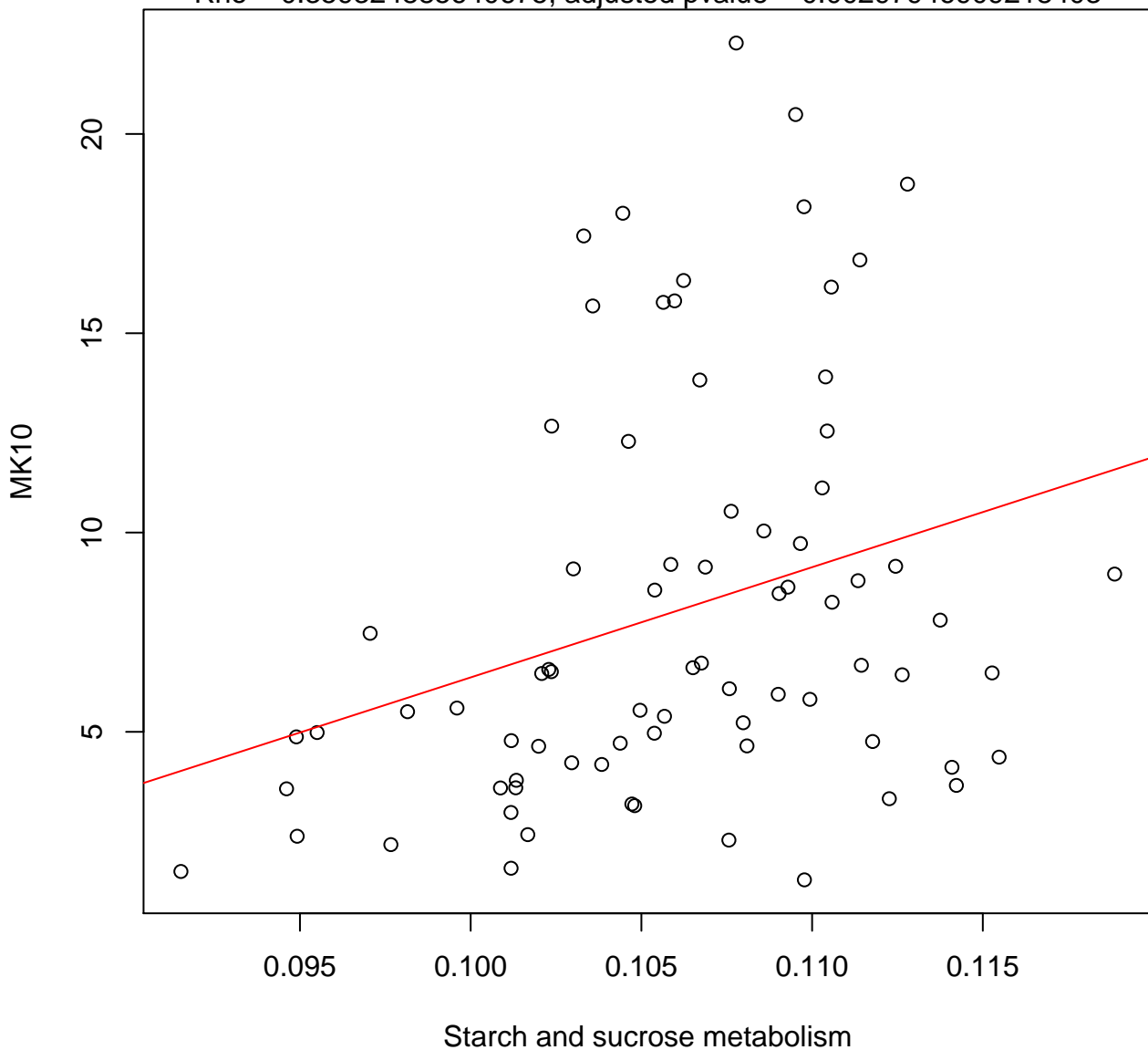
Timepoint 2 , MK10 ~ Selenocompound metabolism

Rho = -0.408302224091698 , adjusted pvalue = 0.000749626475130978



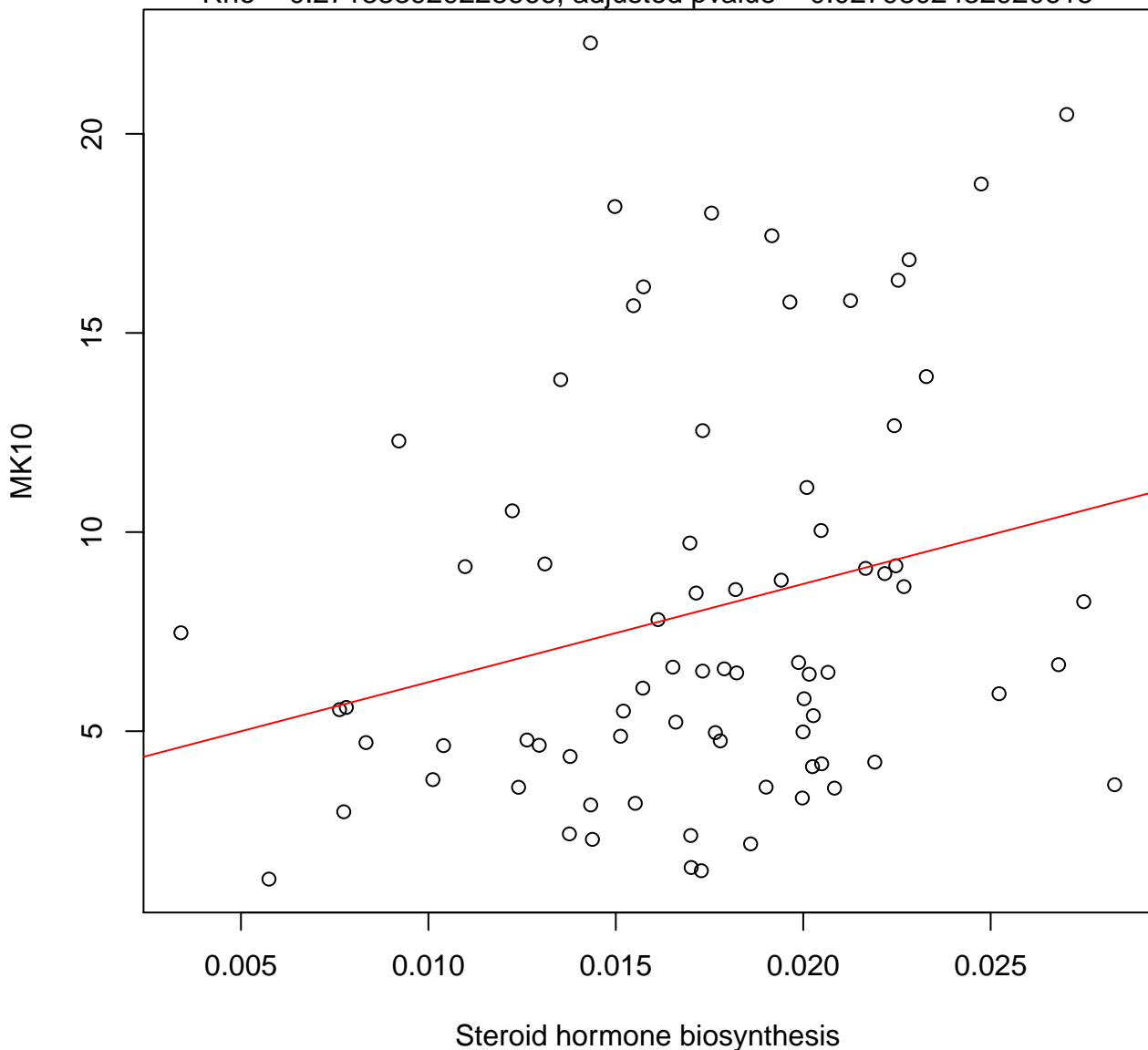
Timepoint 2 , MK10 ~ Starch and sucrose metabolism

Rho = 0.359324885640675, adjusted pvalue = 0.00297946909218403



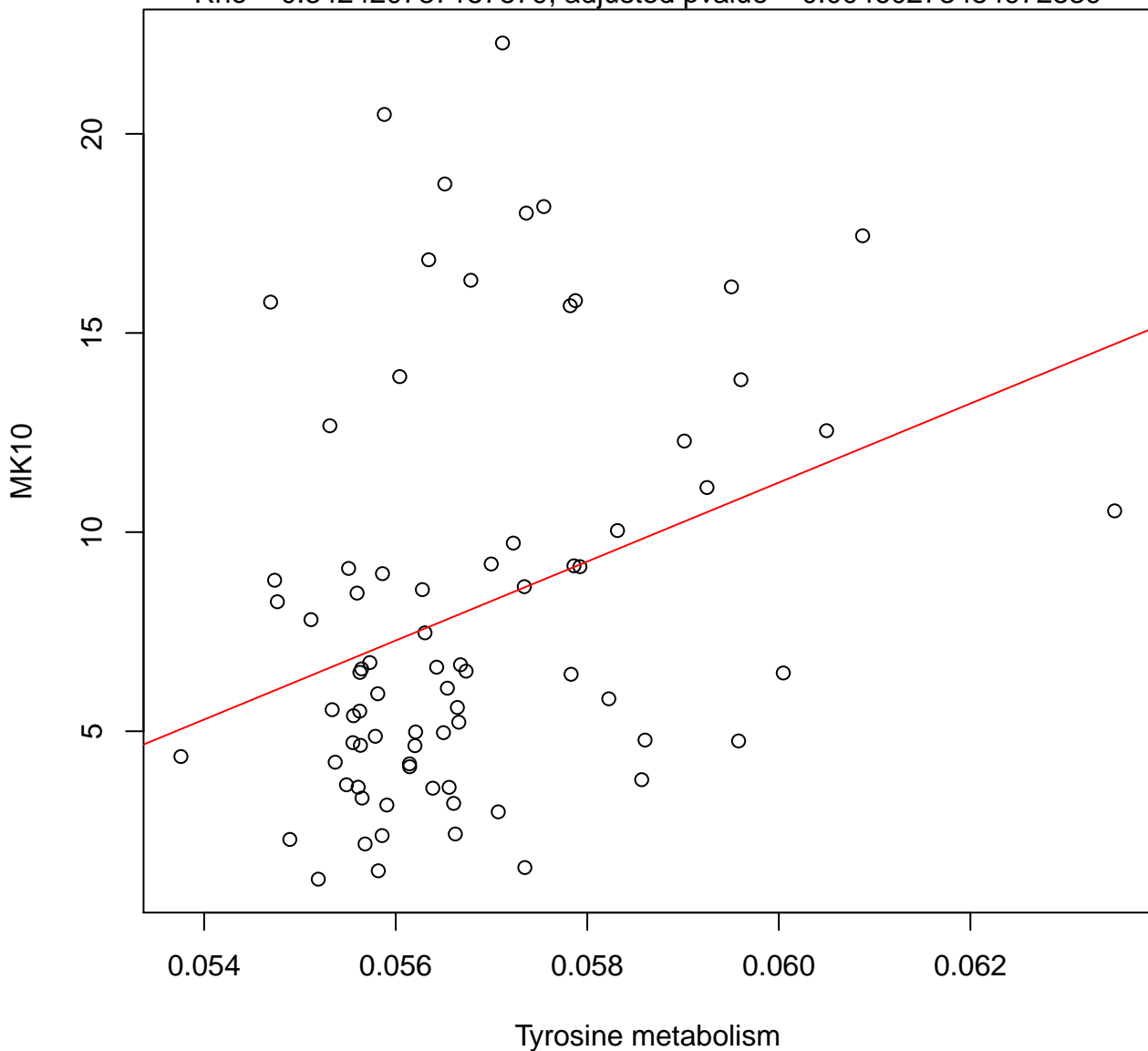
Timepoint 2 , MK10 ~ Steroid hormone biosynthesis

Rho = 0.271333929228666, adjusted pvalue = 0.0279802432920615



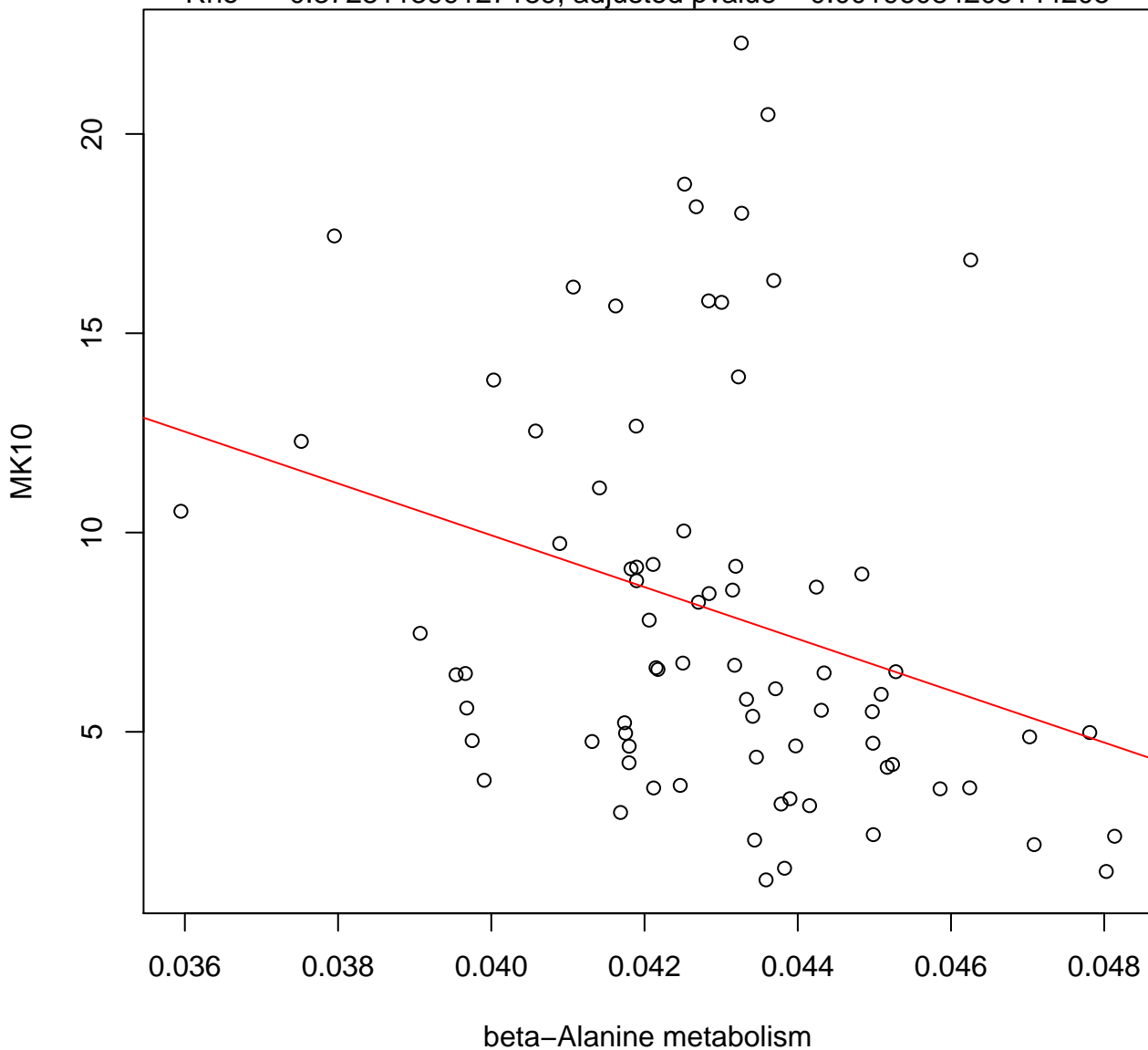
Timepoint 2 , MK10 ~ Tyrosine metabolism

Rho = 0.342420737157579, adjusted pvalue = 0.00460273454972539



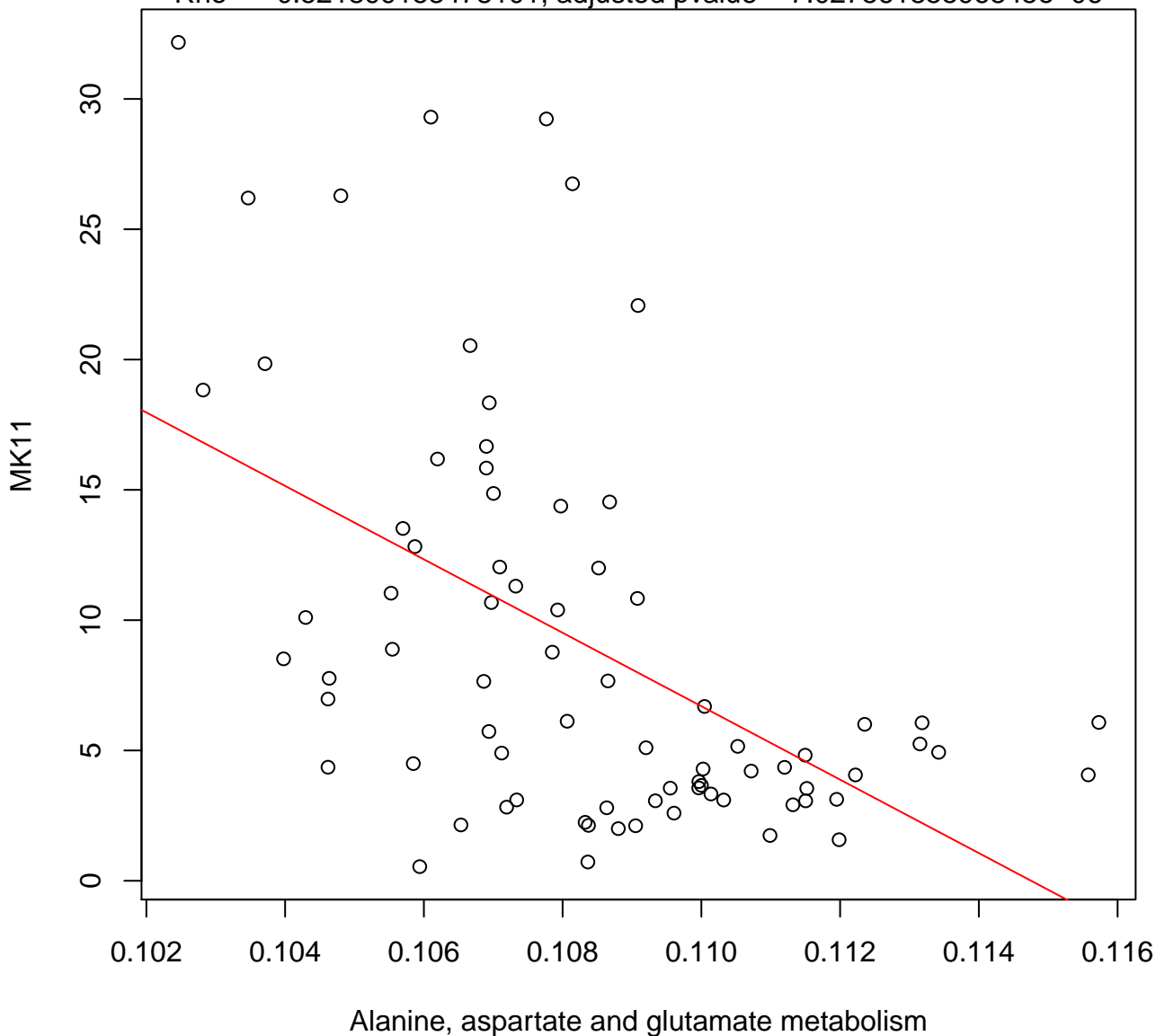
Timepoint 2 , MK10 ~ beta-Alanine metabolism

Rho = -0.372811399127189 , adjusted pvalue = 0.00196084205144205



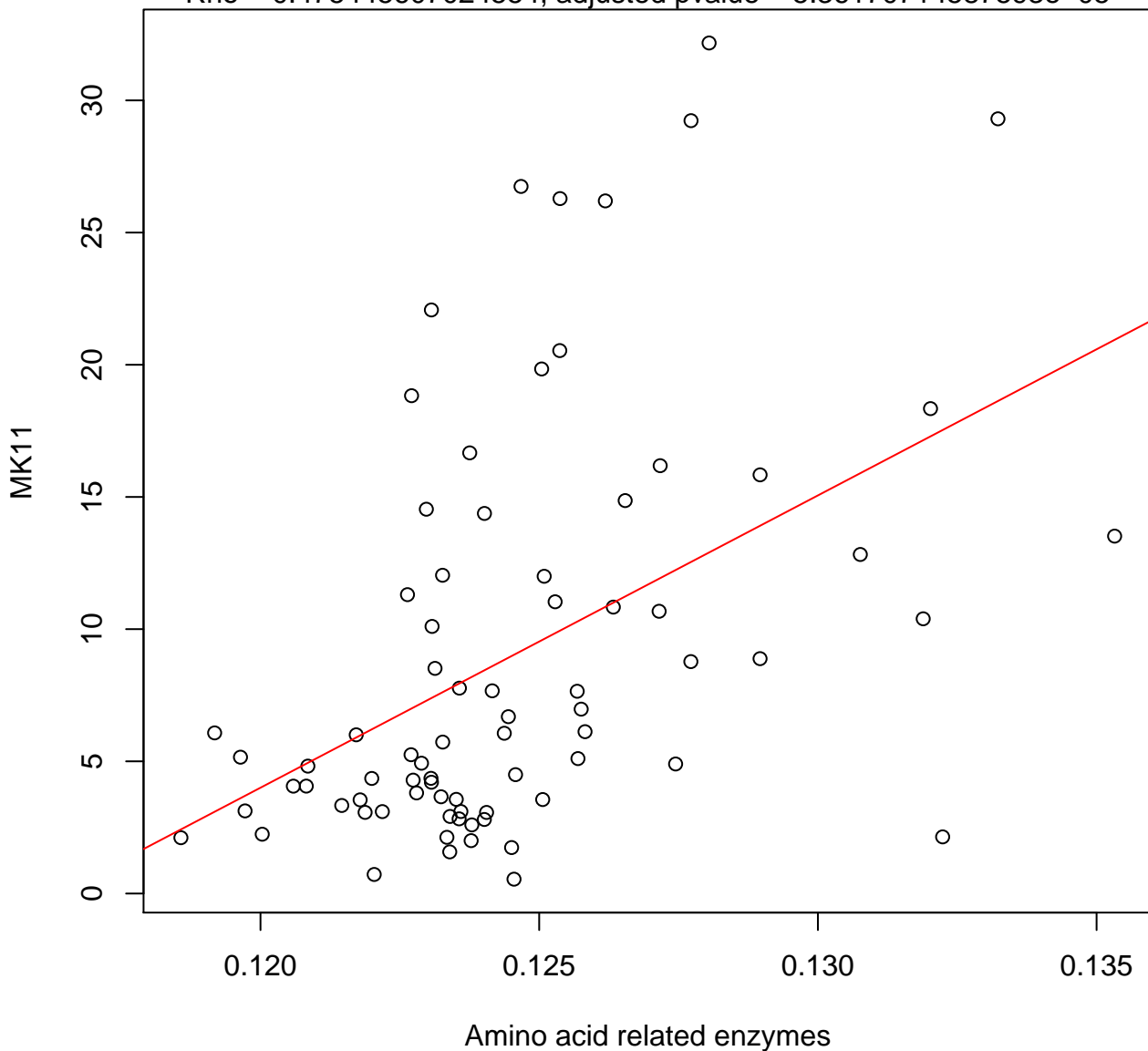
Timepoint 2 , MK11 ~ Alanine, aspartate and glutamate metabolism

Rho = -0.521899153478101 , adjusted pvalue = $7.02756185596845e-06$



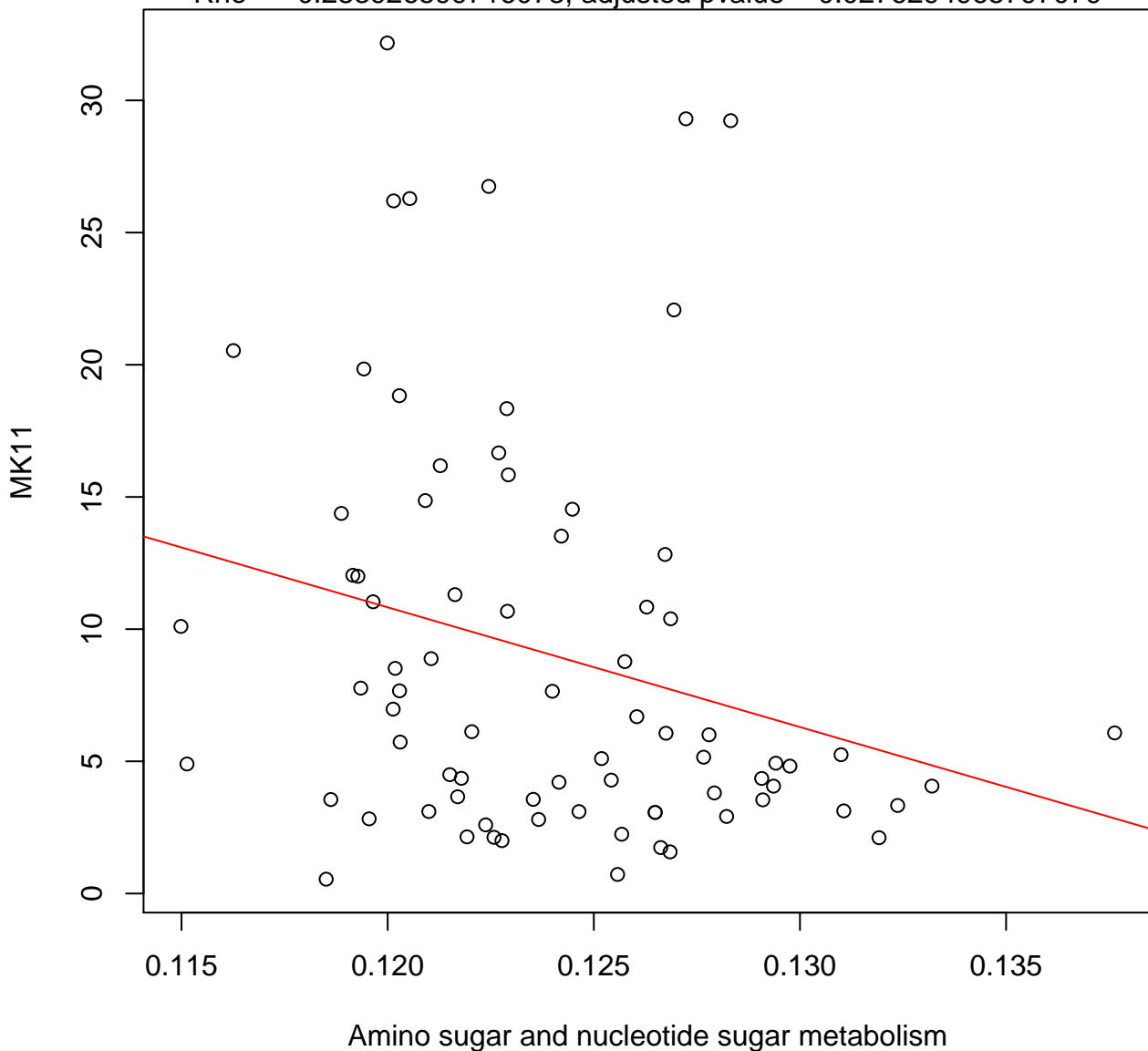
Timepoint 2 , MK11 ~ Amino acid related enzymes

Rho = 0.475445607024554, adjusted pvalue = 5.36170714587593e-05



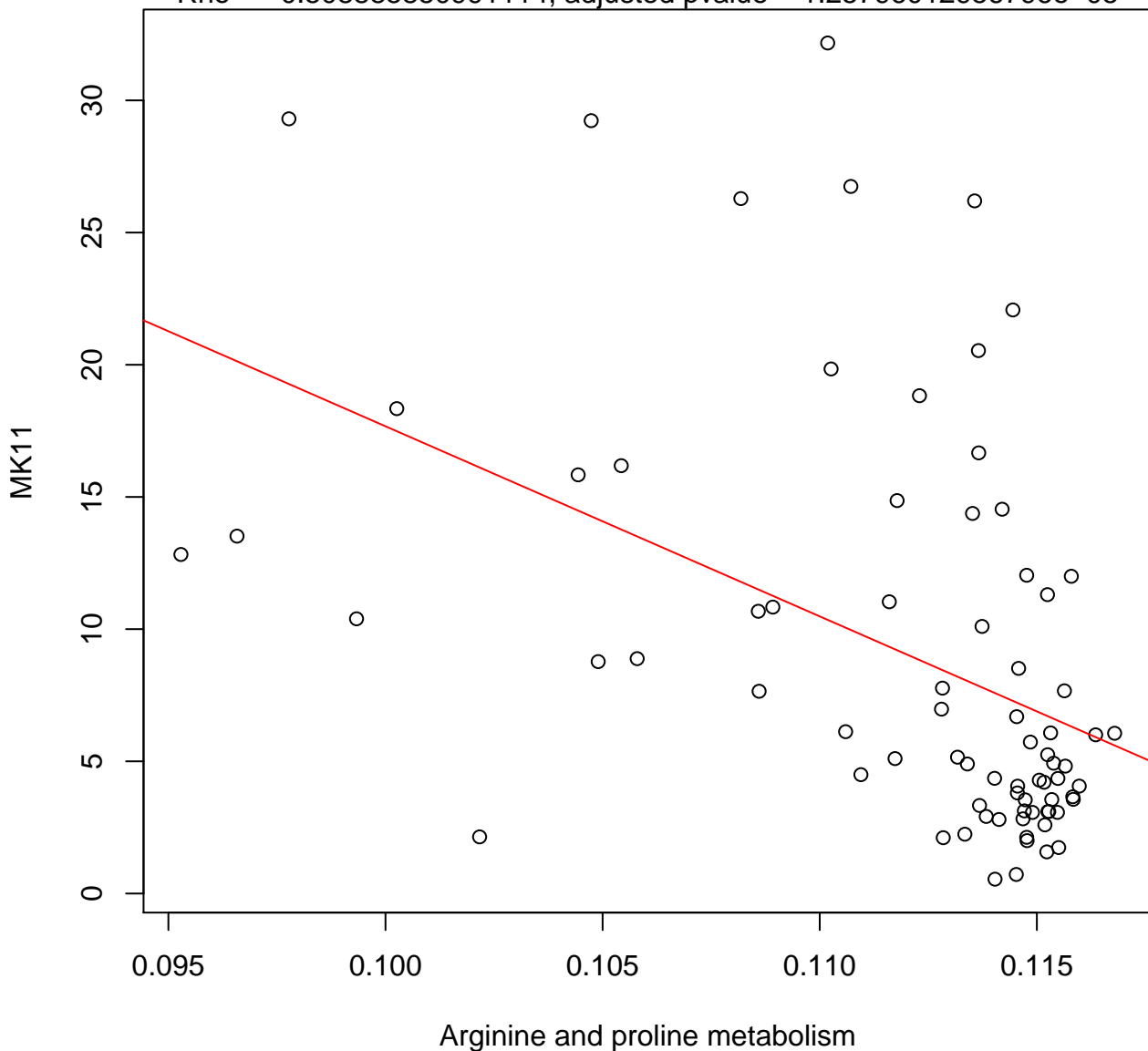
Timepoint 2 , MK11 ~ Amino sugar and nucleotide sugar metabolism

Rho = -0.283926599716073 , adjusted pvalue = 0.0276294965797079



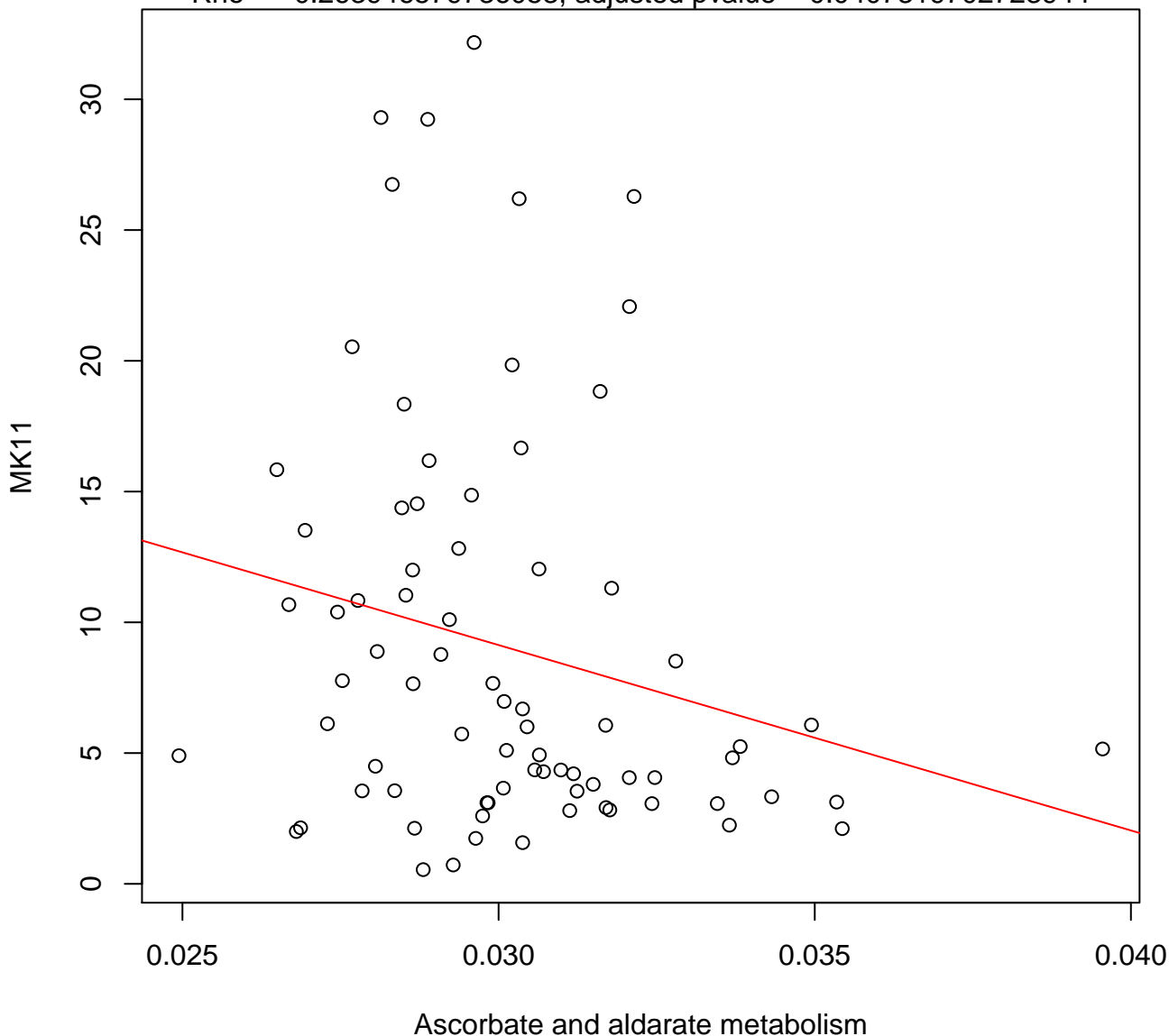
Timepoint 2 , MK11 ~ Arginine and proline metabolism

Rho = -0.508885850991114 , adjusted pvalue = $1.25796012956796e-05$



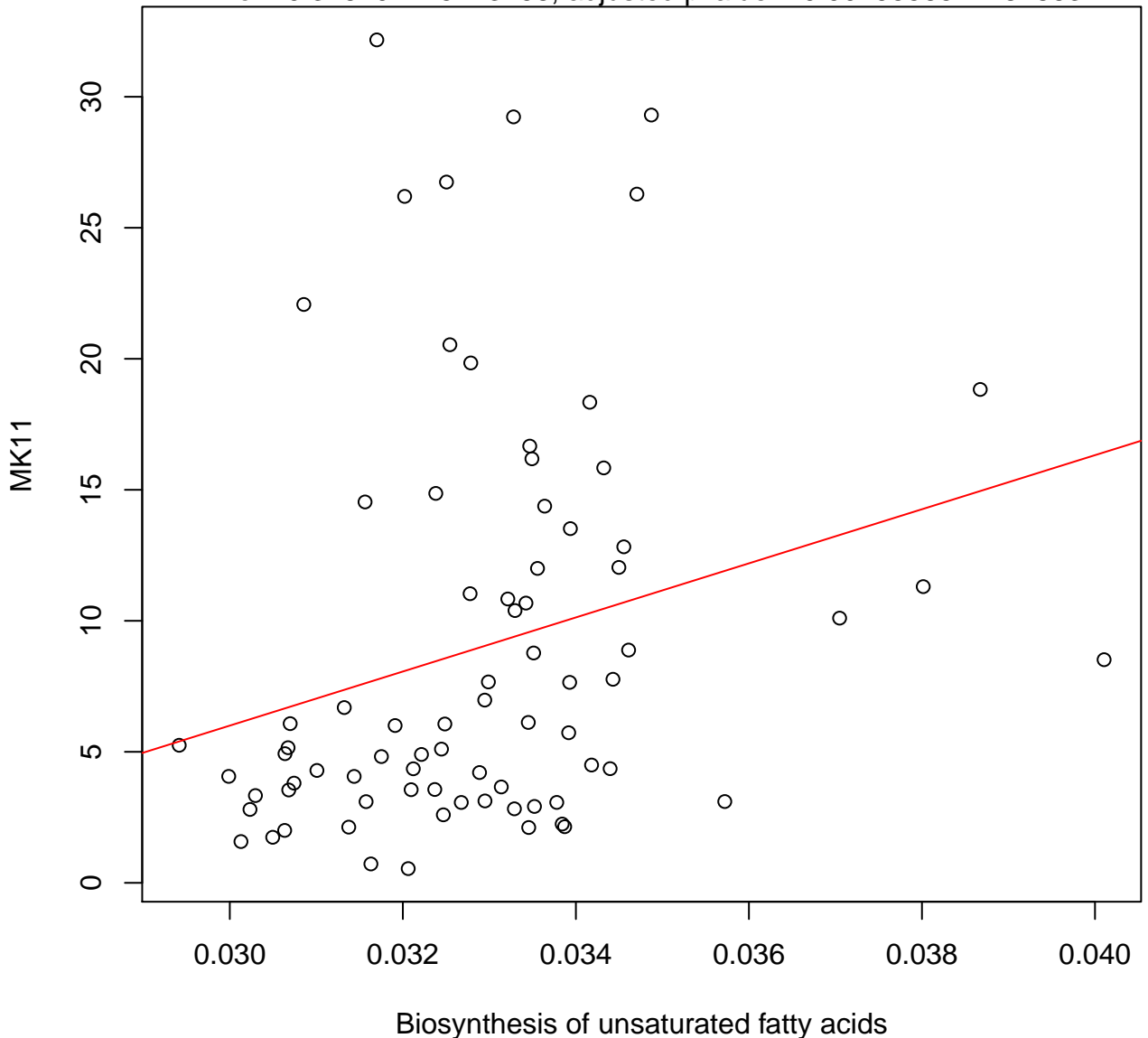
Timepoint 2 , MK11 ~ Ascorbate and aldarate metabolism

Rho = -0.263946579736053 , adjusted pvalue = 0.0407319702723944



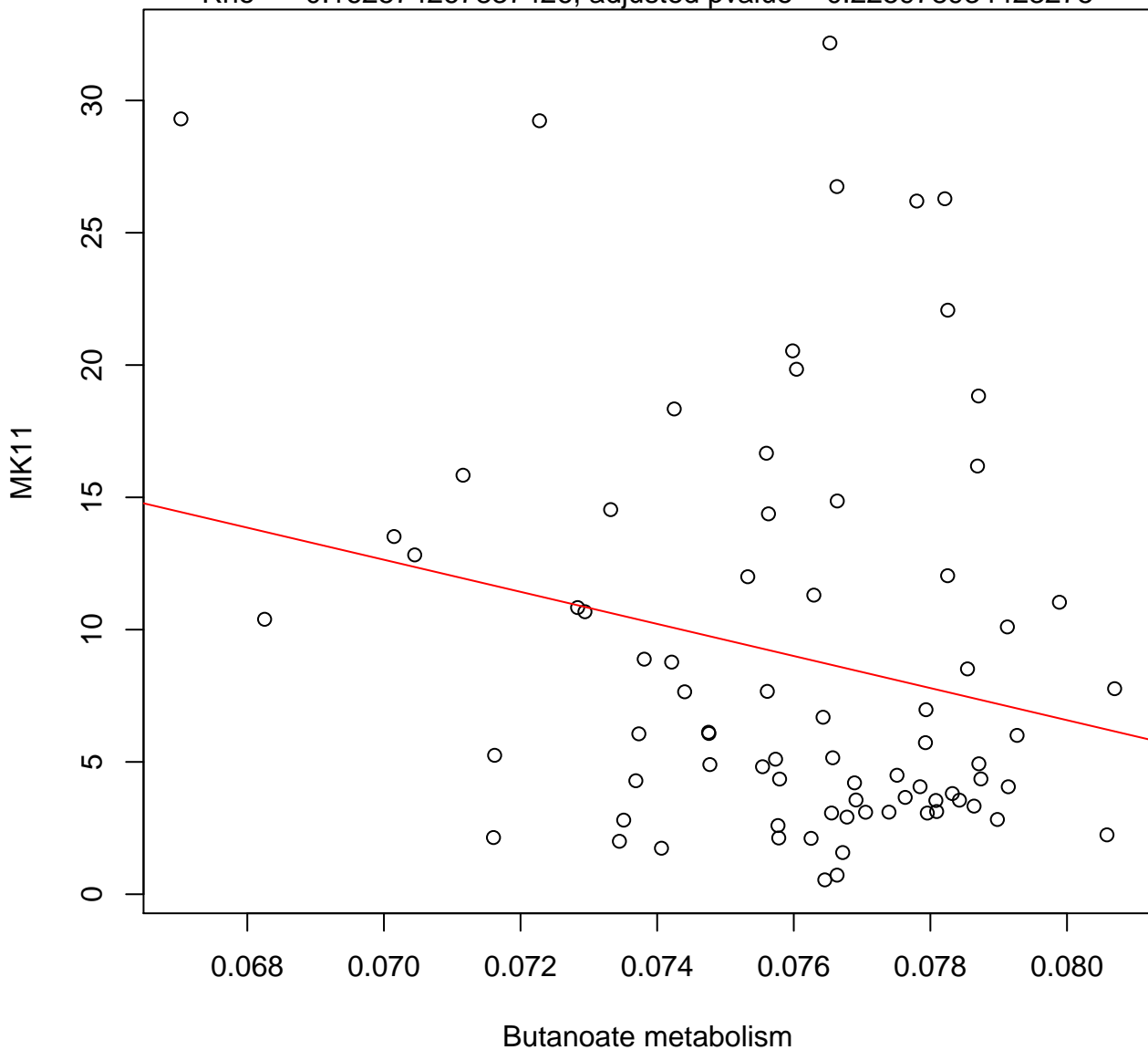
Timepoint 2 , MK11 ~ Biosynthesis of unsaturated fatty acids

Rho = 0.376702245123298, adjusted pvalue = 0.0019556541184863



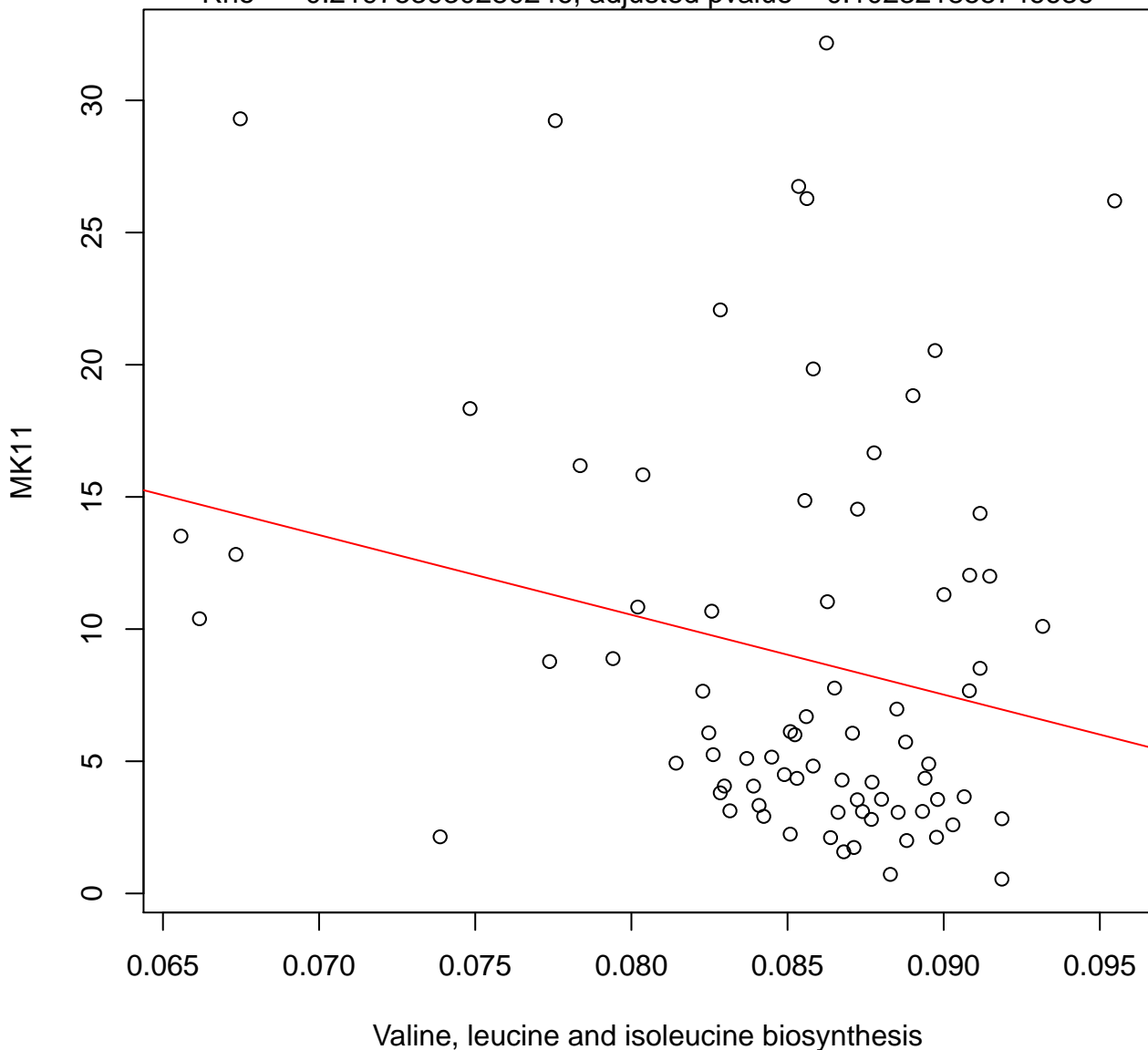
Timepoint 2 , MK11 ~ Butanoate metabolism

Rho = -0.162574267837426 , adjusted pvalue = 0.225978934423275



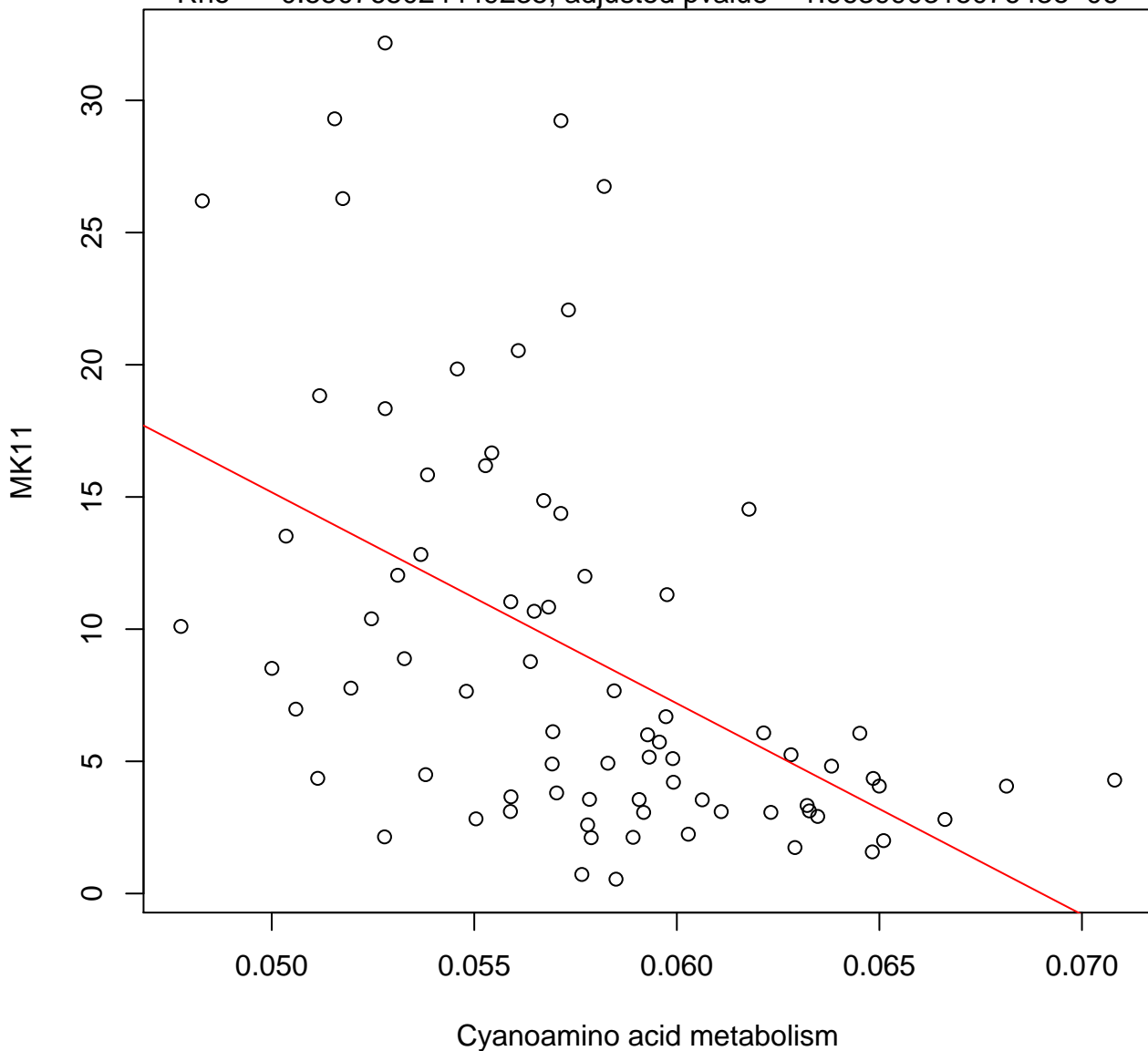
Timepoint 2 , MK11 ~ Valine, leucine and isoleucine biosynthesis

Rho = -0.219753930280246 , adjusted pvalue = 0.102321855746636



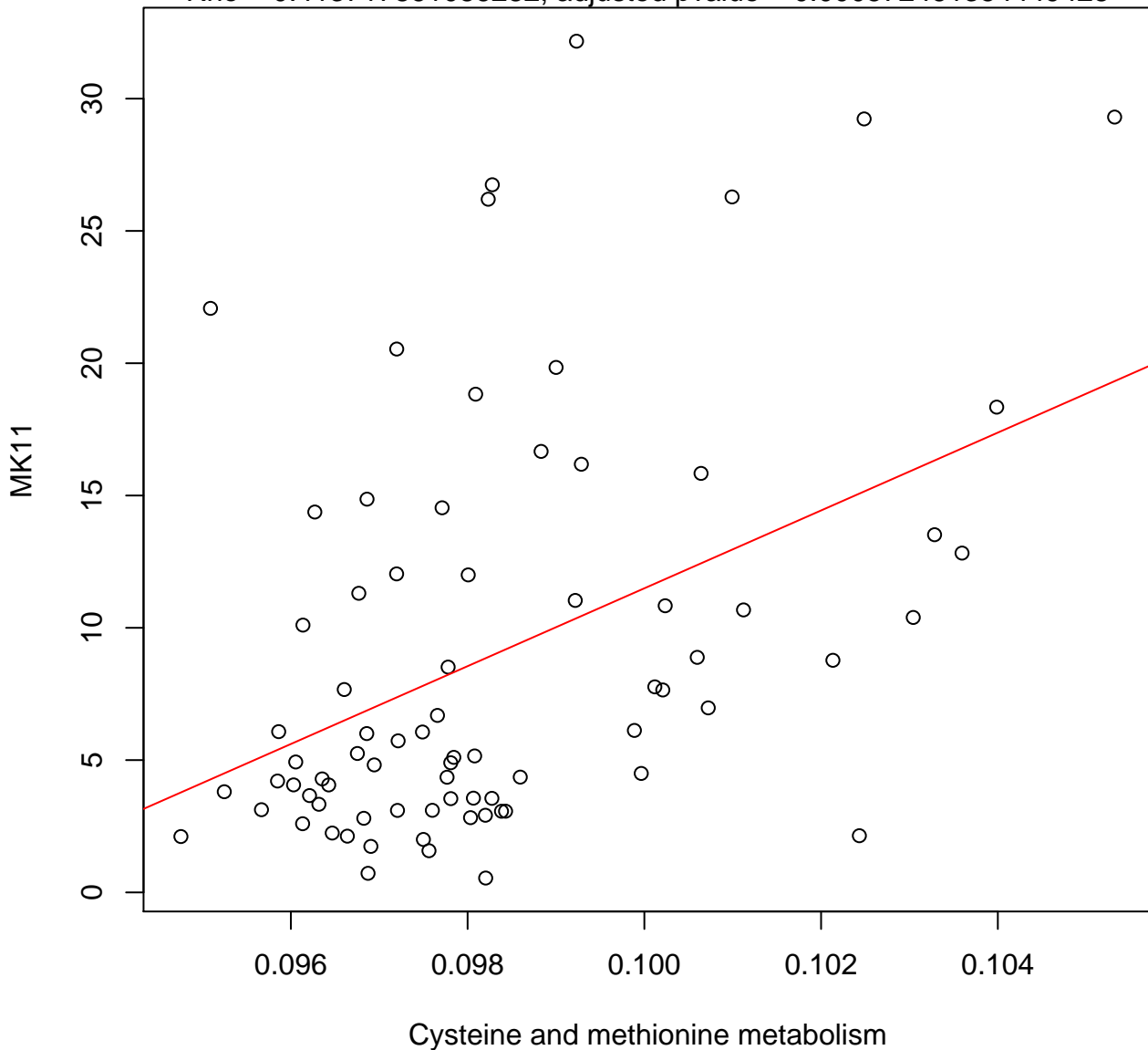
Timepoint 2 , MK11 ~ Cyanoamino acid metabolism

Rho = -0.550765024449235 , adjusted pvalue = $1.96399031507643e-06$



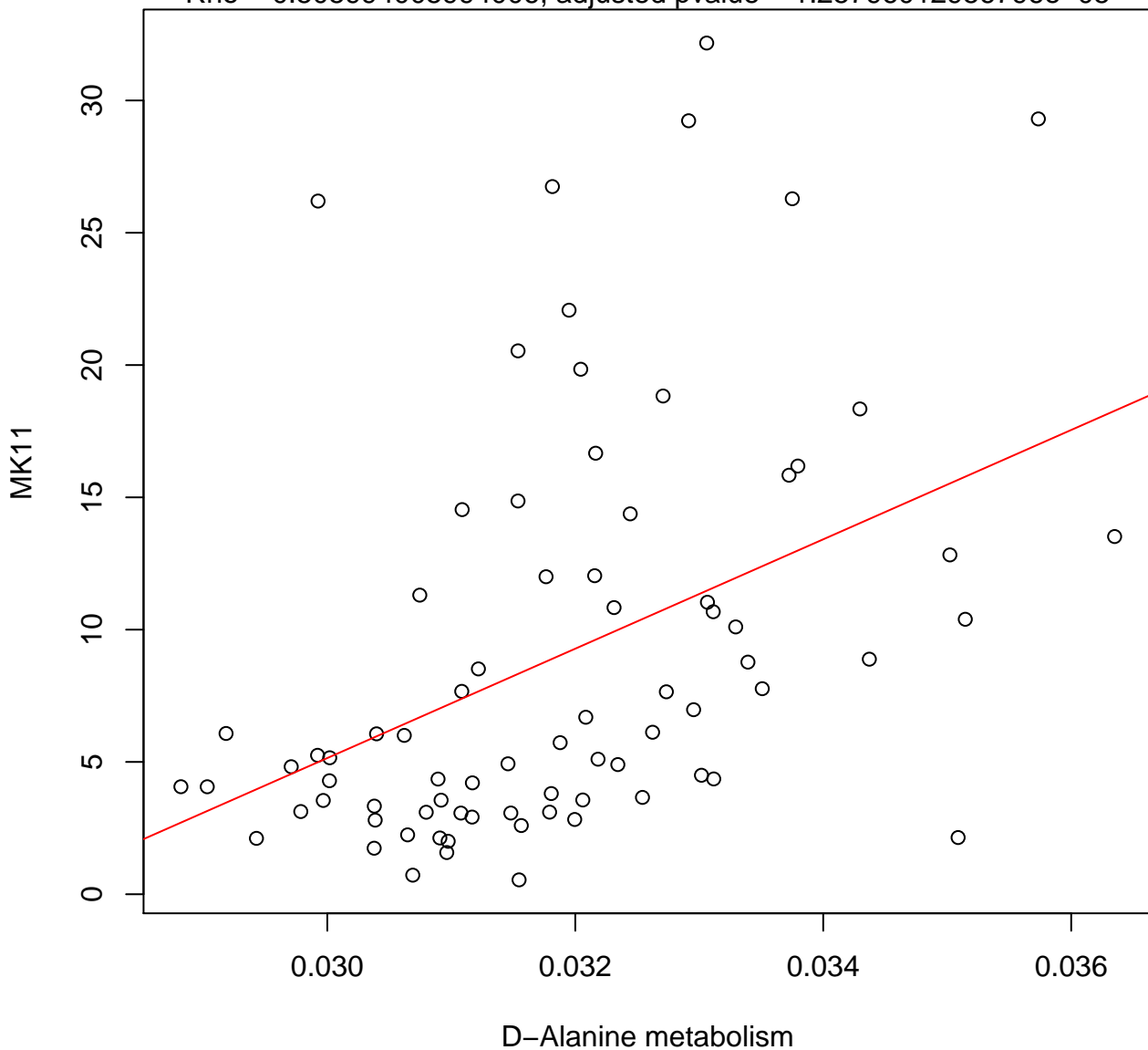
Timepoint 2 , MK11 ~ Cysteine and methionine metabolism

Rho = 0.413717861086282, adjusted pvalue = 0.000572461354449428



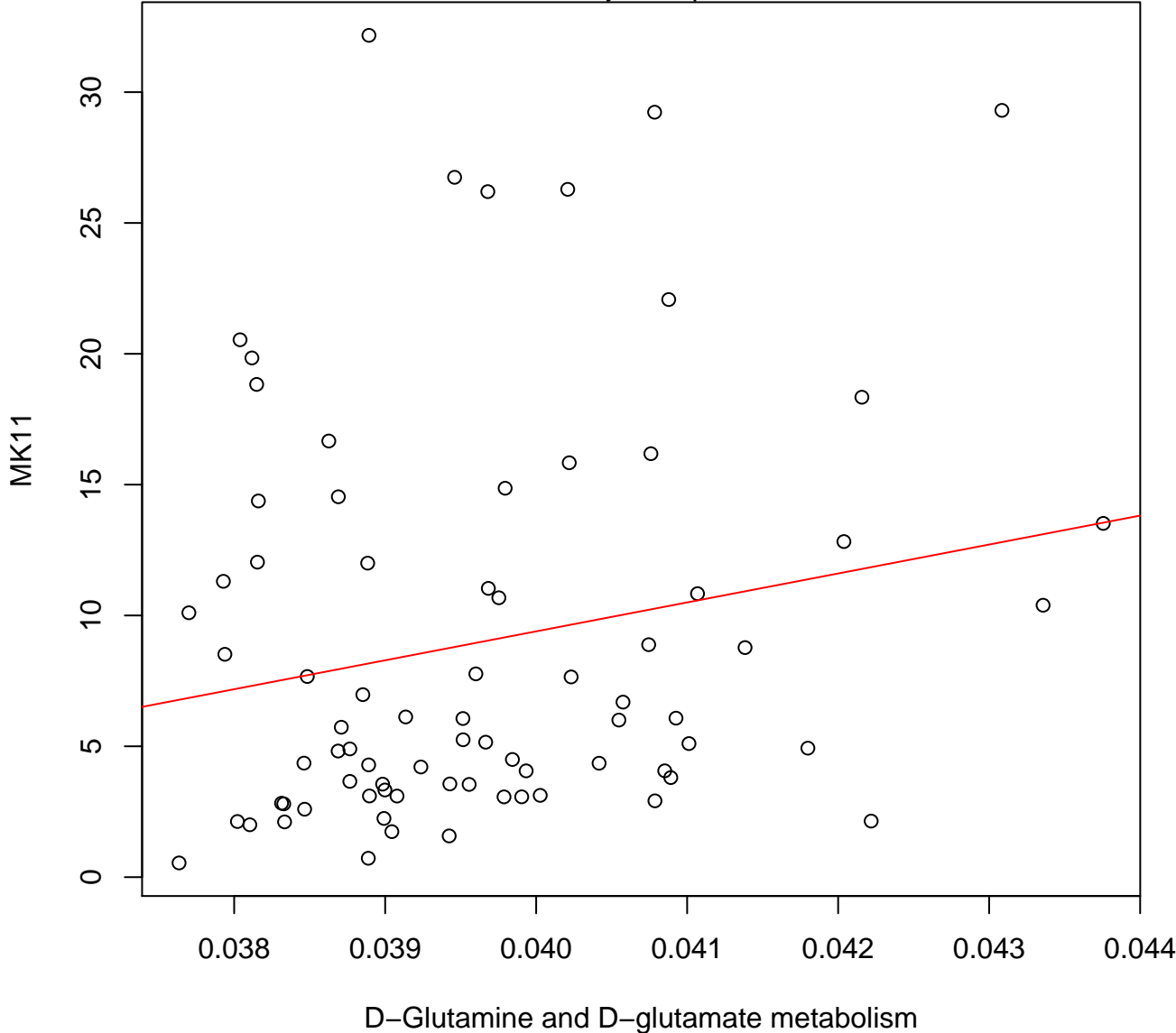
Timepoint 2 , MK11 ~ D-Alanine metabolism

Rho = 0.505994005994006, adjusted pvalue = 1.25796012956796e-05



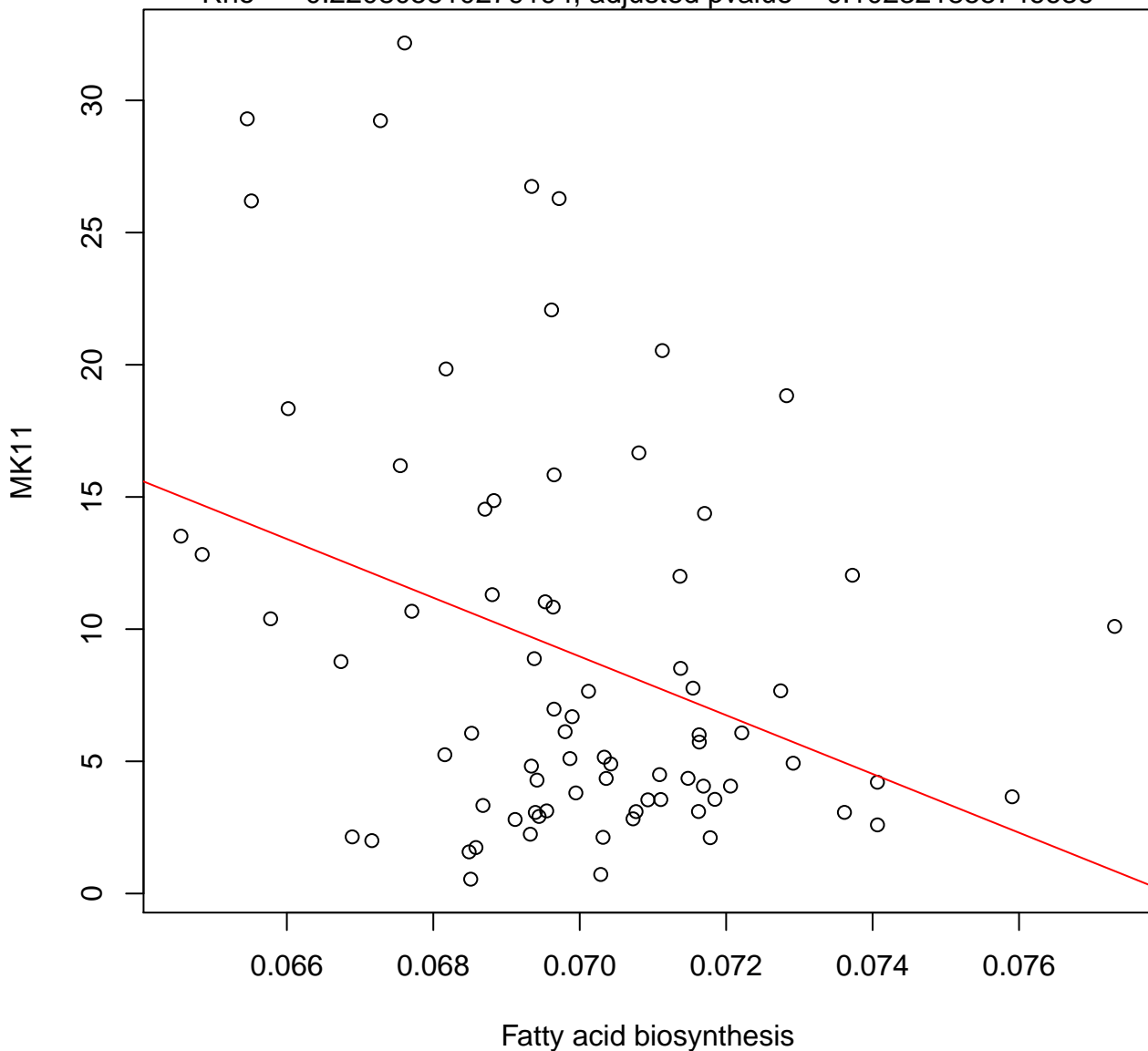
Timepoint 2 , MK11 ~ D-Glutamine and D-glutamate metabolism

Rho = 0.186418844313581, adjusted pvalue = 0.162585831604008



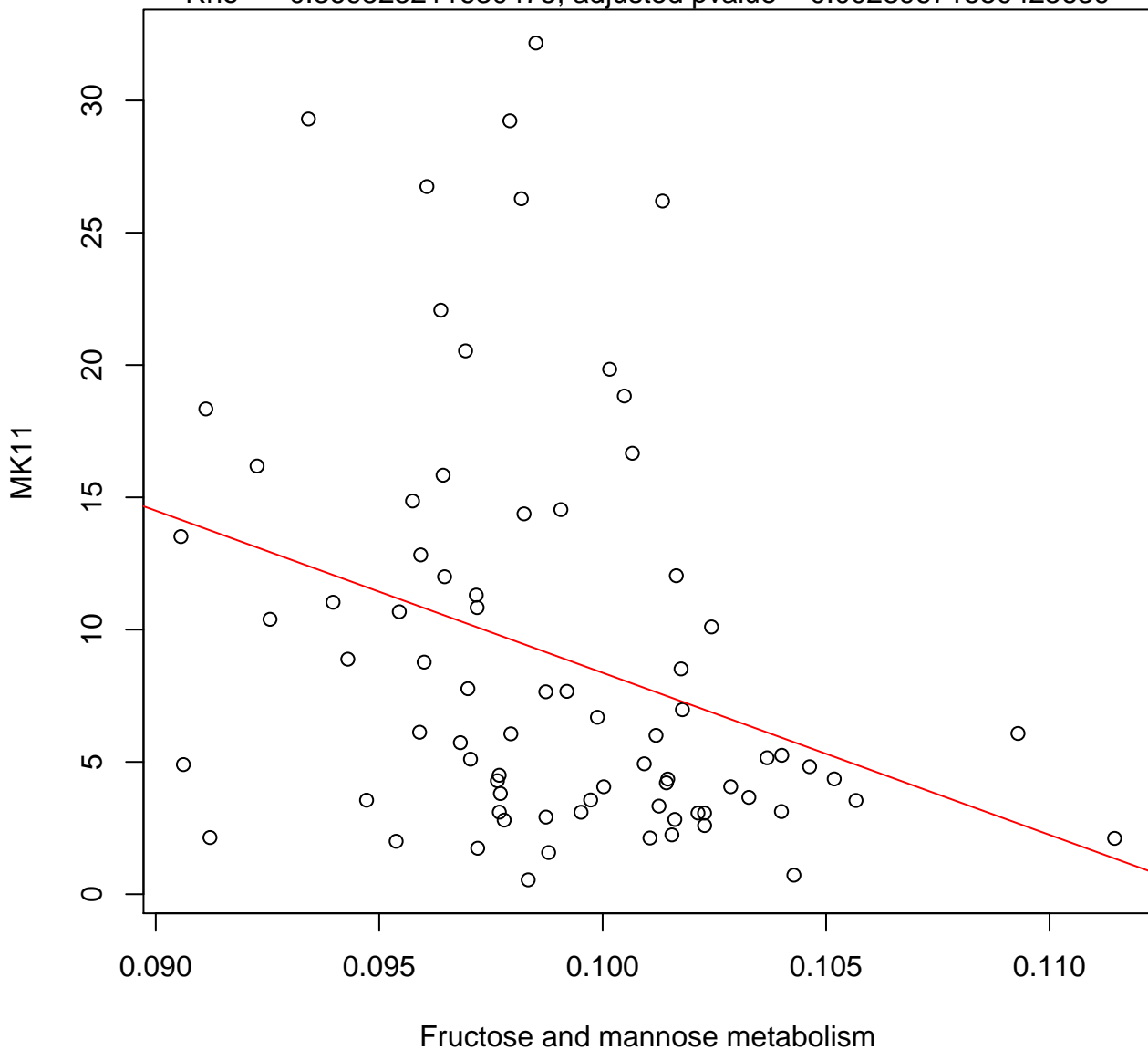
Timepoint 2 , MK11 ~ Fatty acid biosynthesis

Rho = -0.220805510279194 , adjusted pvalue = 0.102321855746636



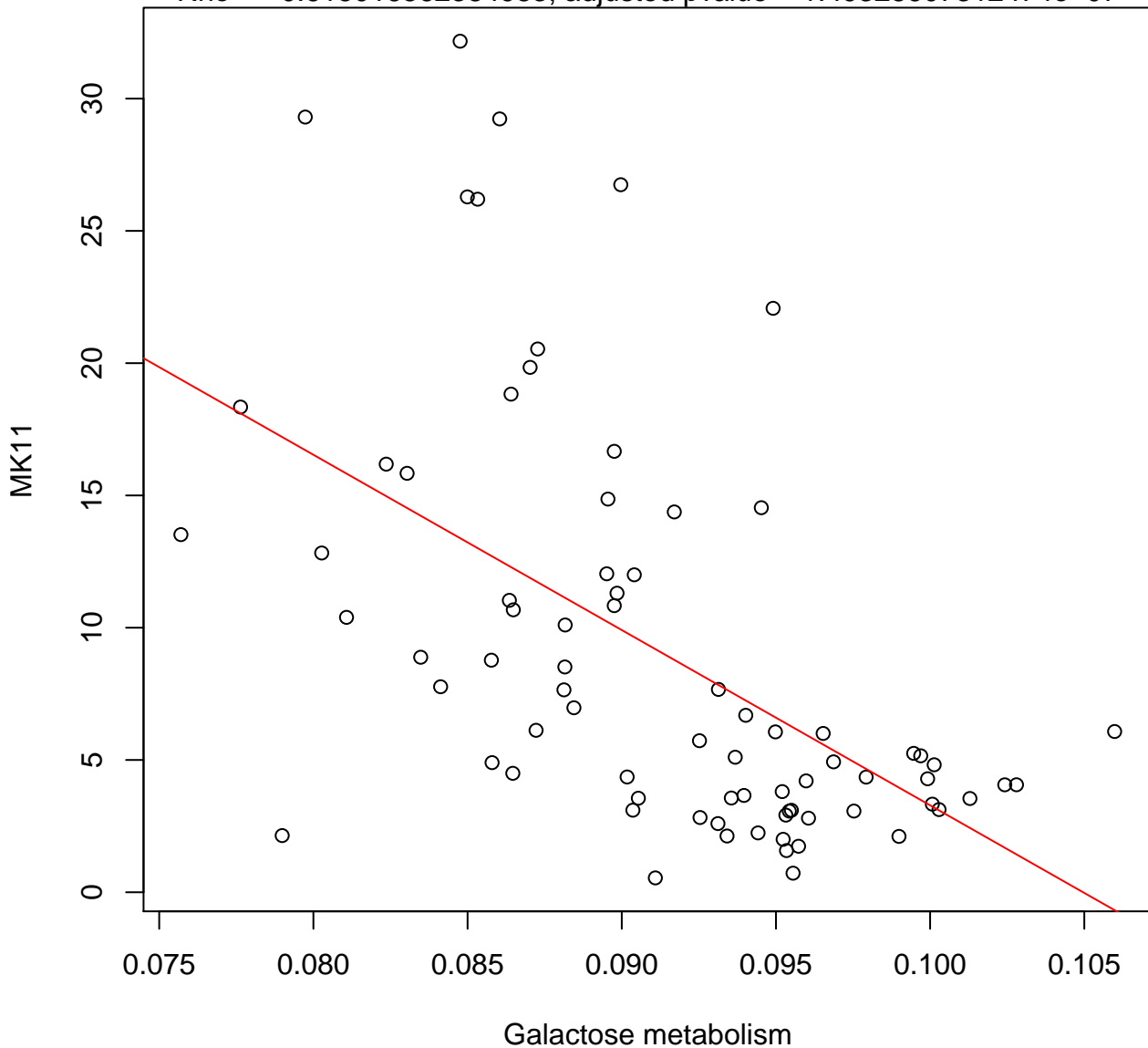
Timepoint 2 , MK11 ~ Fructose and mannose metabolism

Rho = -0.369525211630475 , adjusted pvalue = 0.00239671550425639



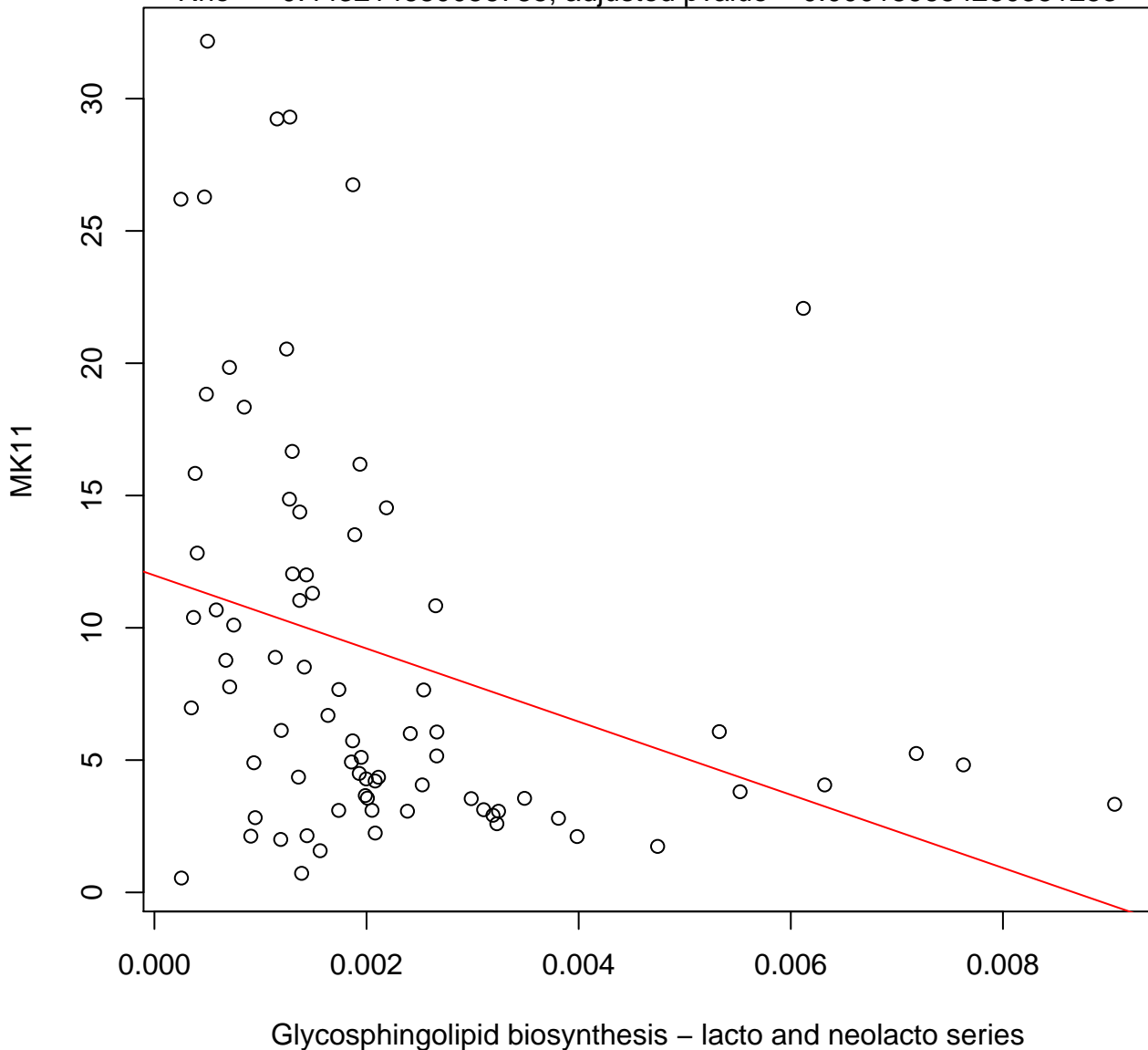
Timepoint 2 , MK11 ~ Galactose metabolism

Rho = -0.615016562384983 , adjusted pvalue = $1.49328607312474e-07$



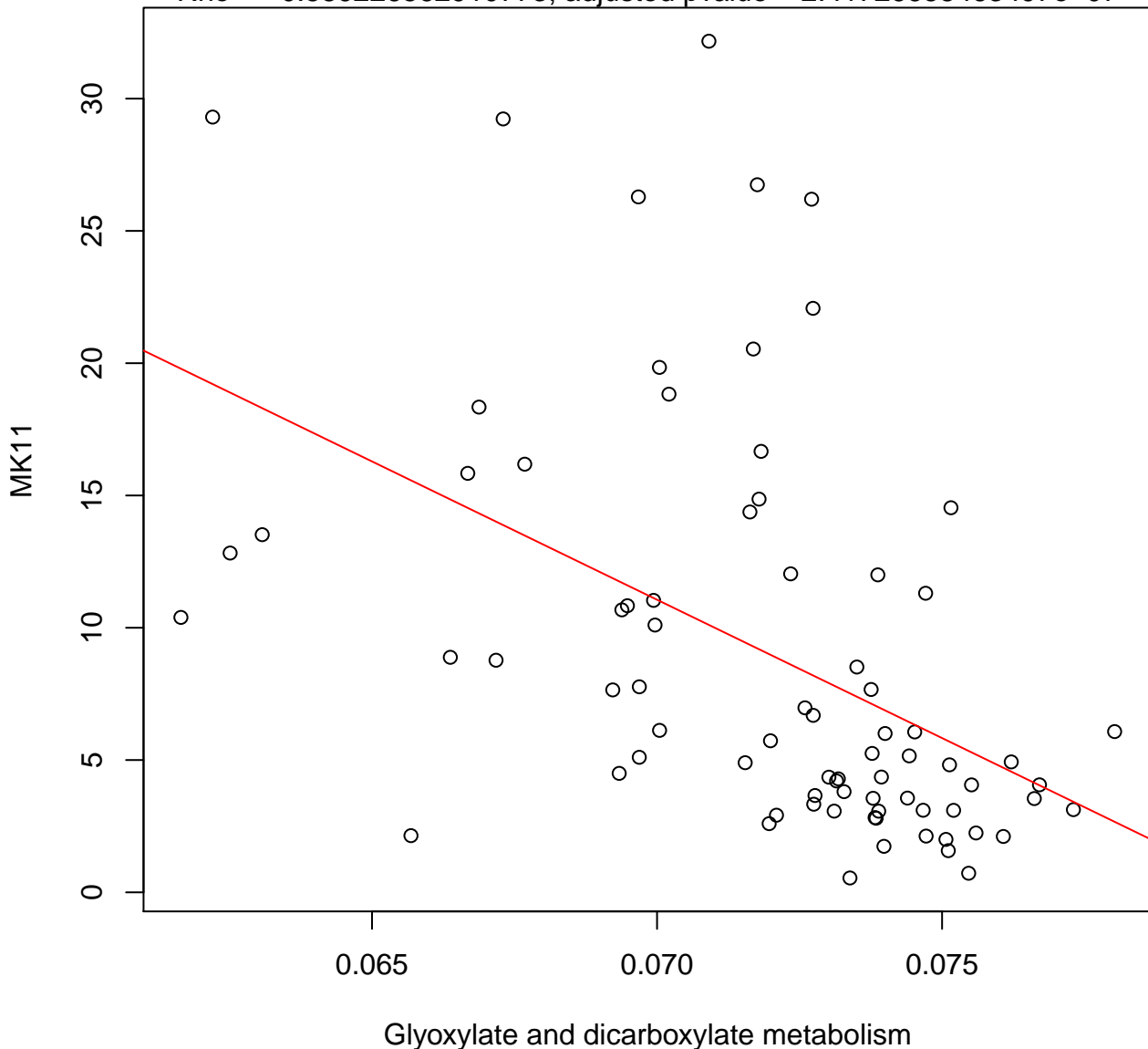
Timepoint 2 , MK11 ~ Glycosphingolipid biosynthesis – lacto and neolacto series

Rho = -0.443214680056785 , adjusted pvalue = 0.000189654280351253



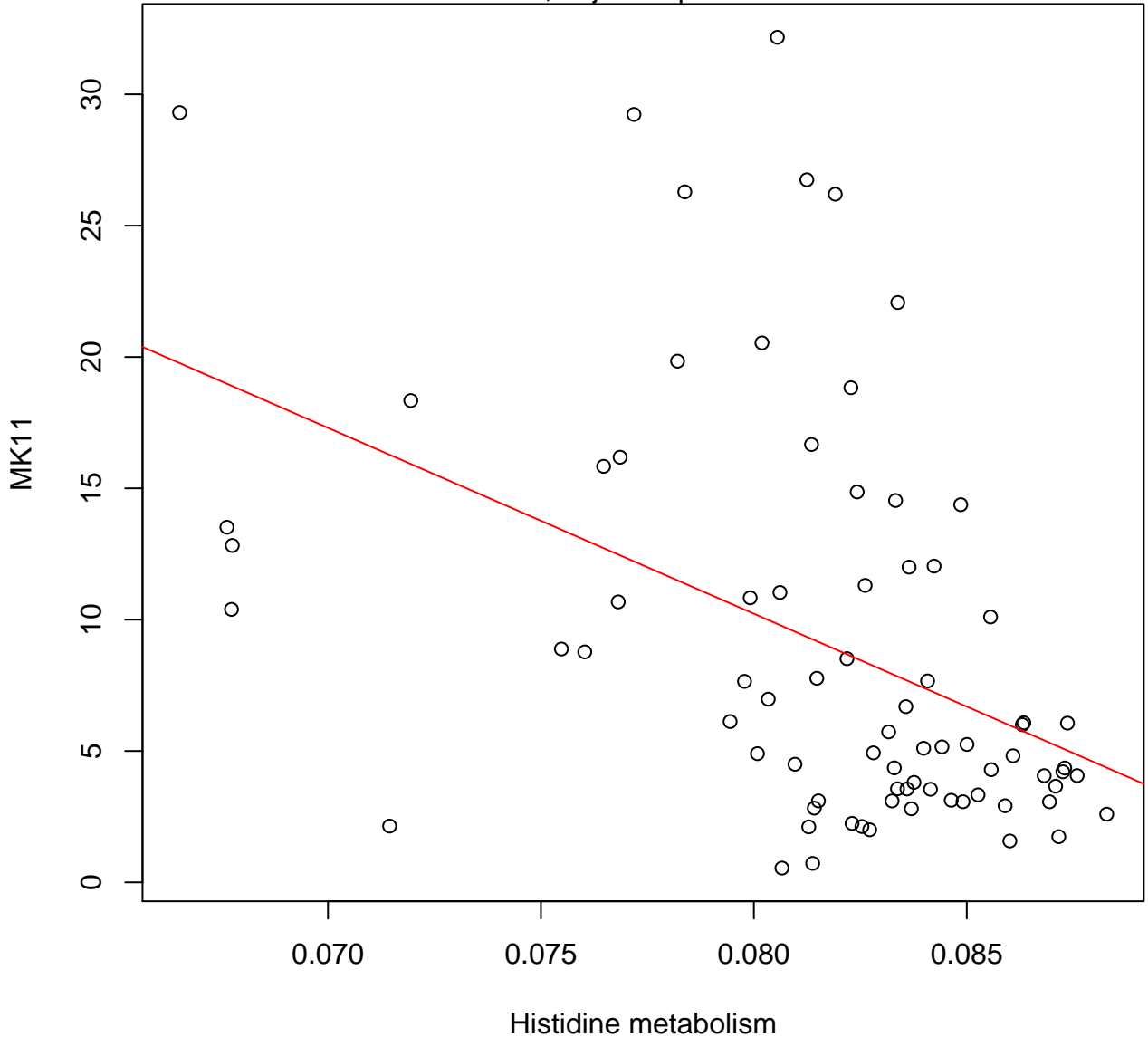
Timepoint 2 , MK11 ~ Glyoxylate and dicarboxylate metabolism

Rho = -0.589226562910773 , adjusted pvalue = $2.41726658463497\text{e-}07$



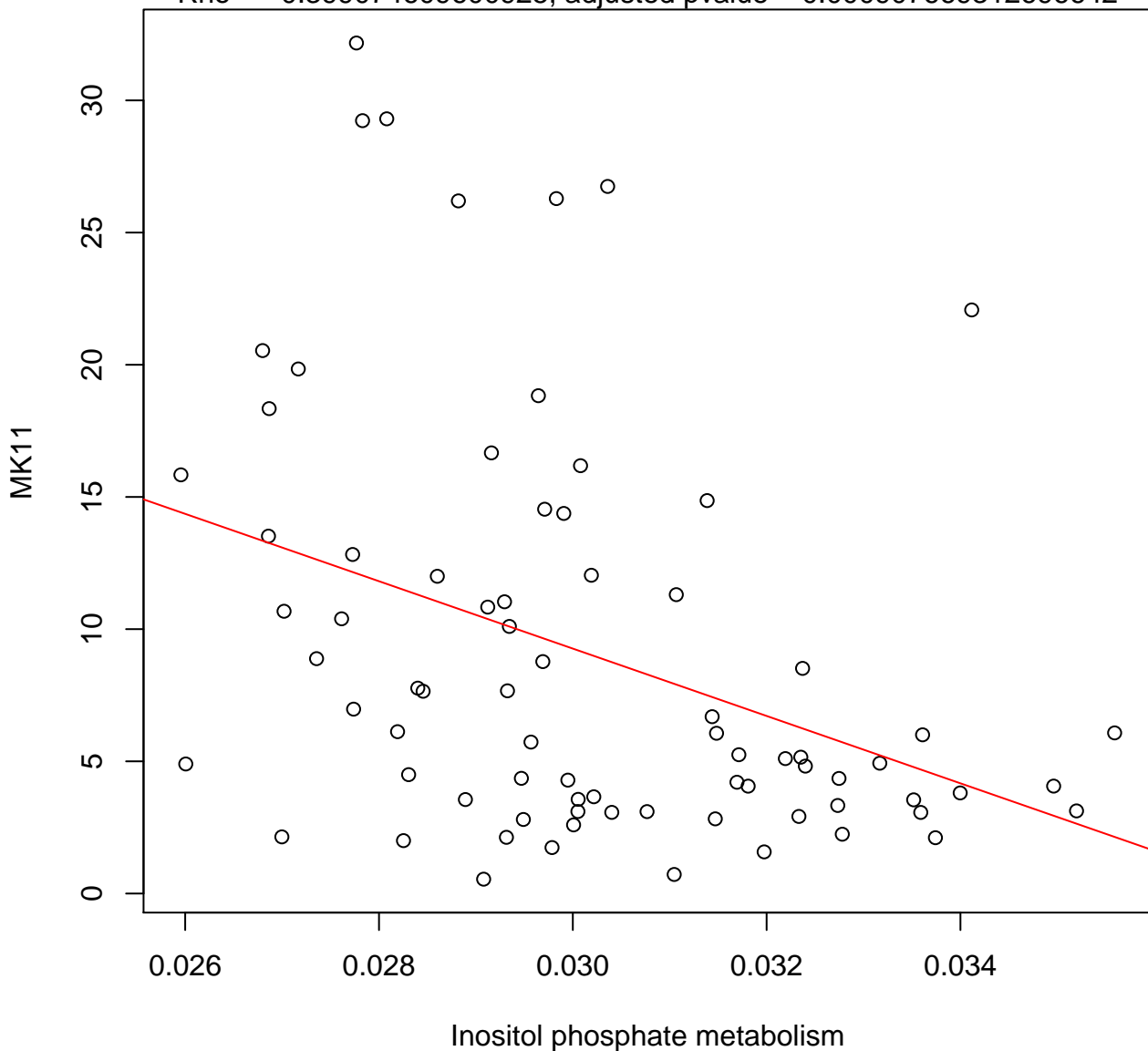
Timepoint 2 , MK11 ~ Histidine metabolism

Rho = -0.466848940533151, adjusted pvalue = 7.47903522133717e-05



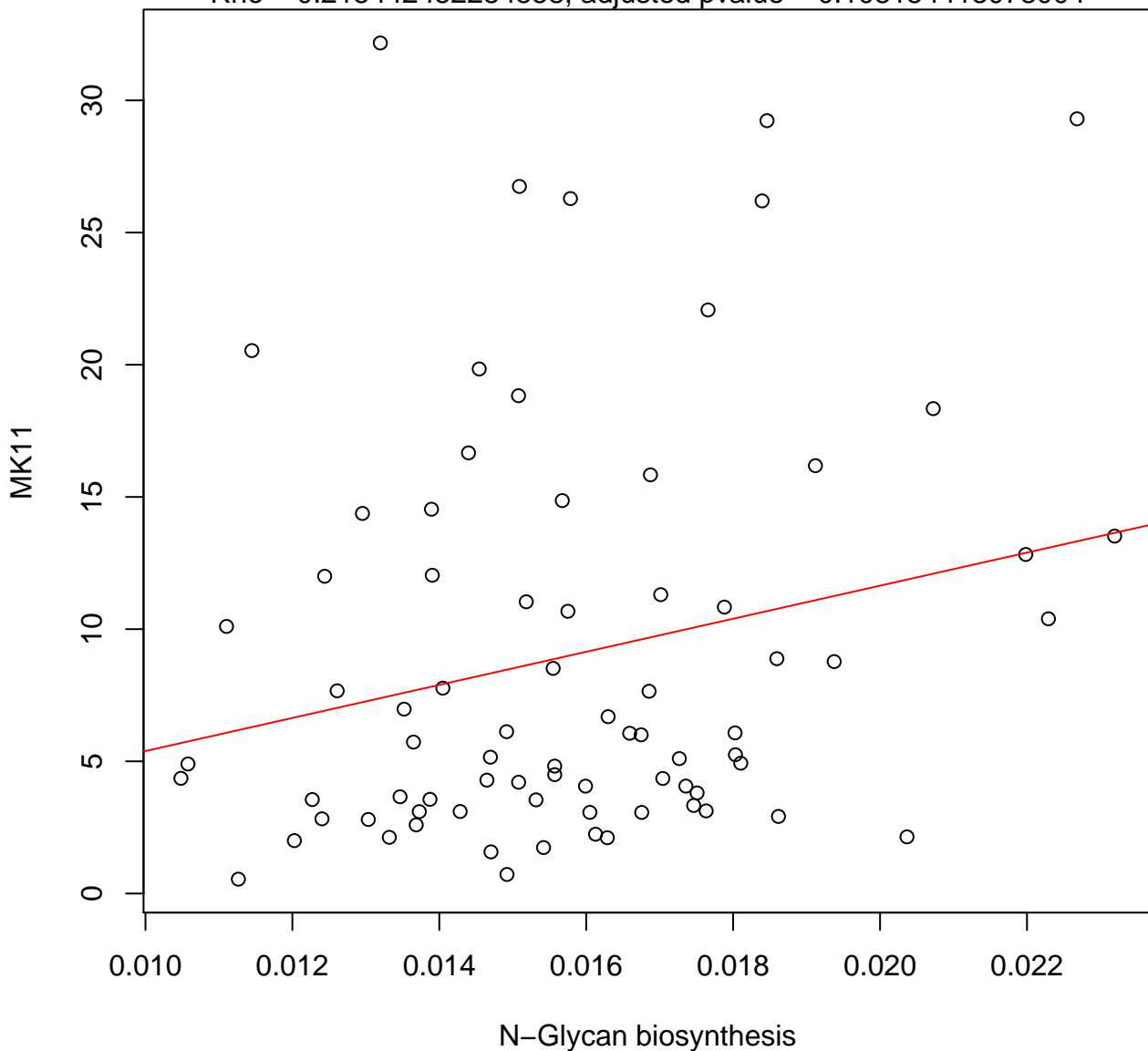
Timepoint 2 , MK11 ~ Inositol phosphate metabolism

Rho = -0.399074609600925 , adjusted pvalue = 0.000907669312696642



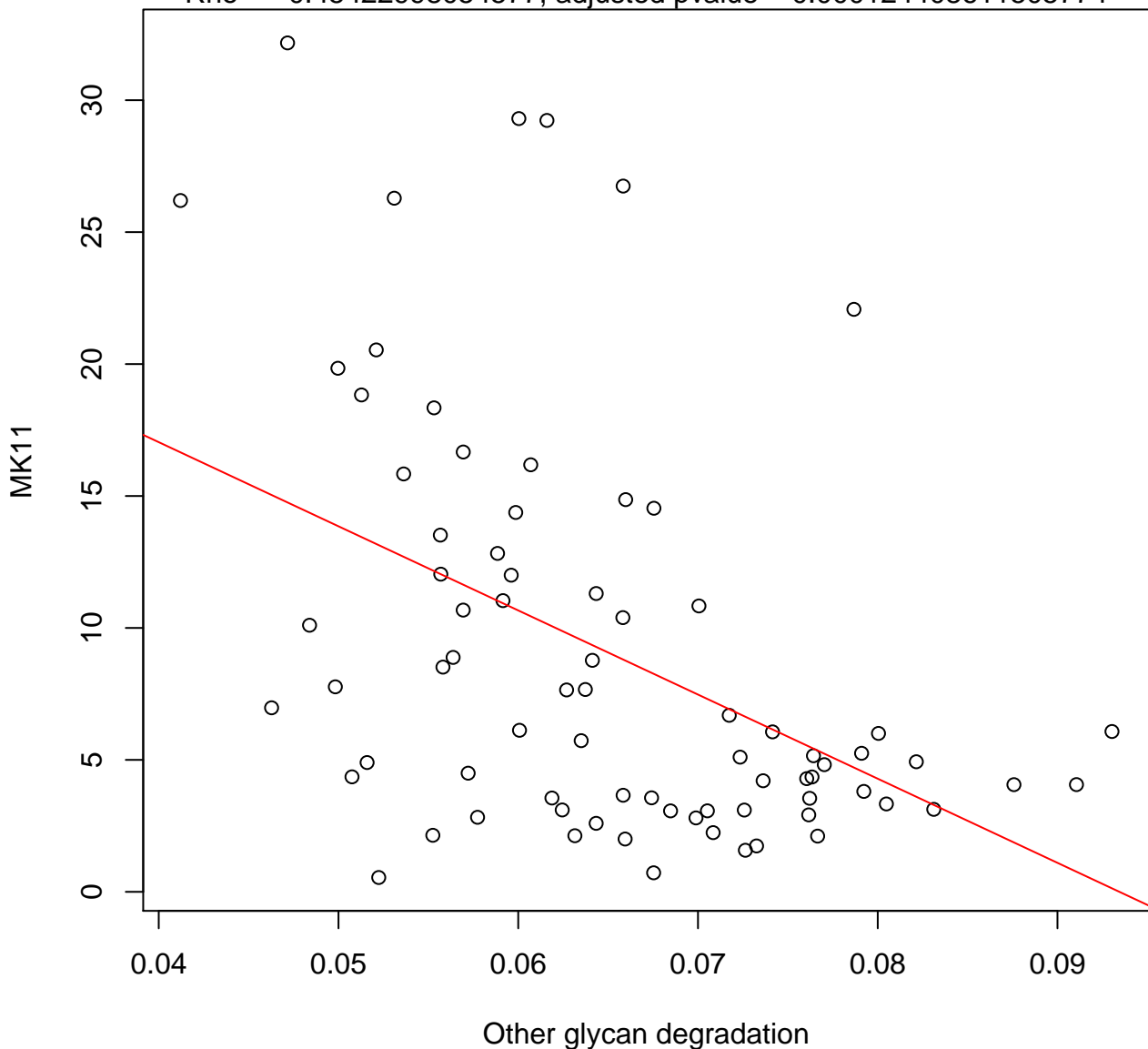
Timepoint 2 , MK11 ~ N-Glycan biosynthesis

Rho = 0.215442452284558, adjusted pvalue = 0.108154413078004



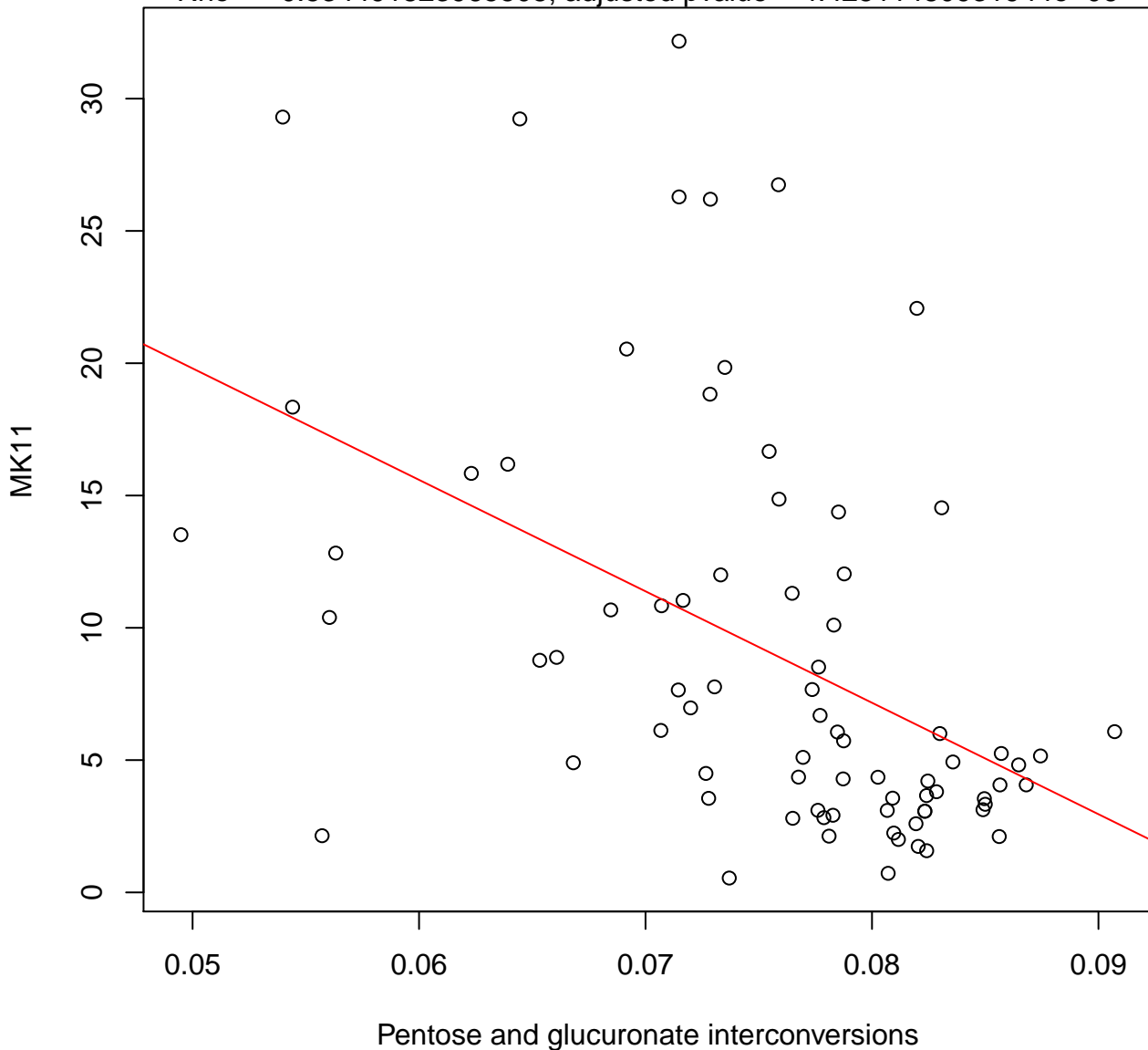
Timepoint 2 , MK11 ~ Other glycan degradation

Rho = -0.45422998054577 , adjusted pvalue = 0.000124408611505774



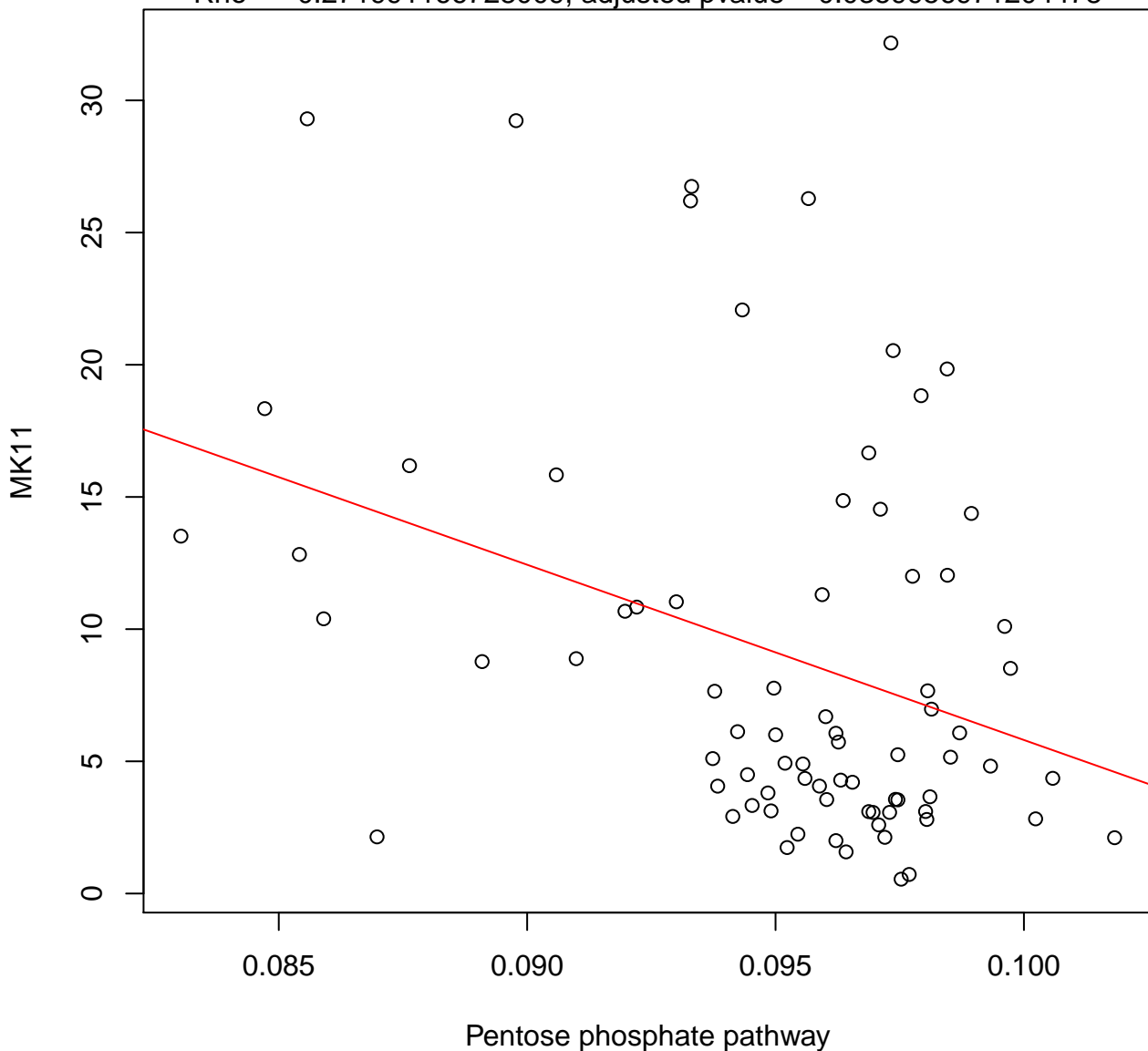
Timepoint 2 , MK11 ~ Pentose and glucuronate interconversions

Rho = -0.534491823965508, adjusted pvalue = 4.42511480931944e-06



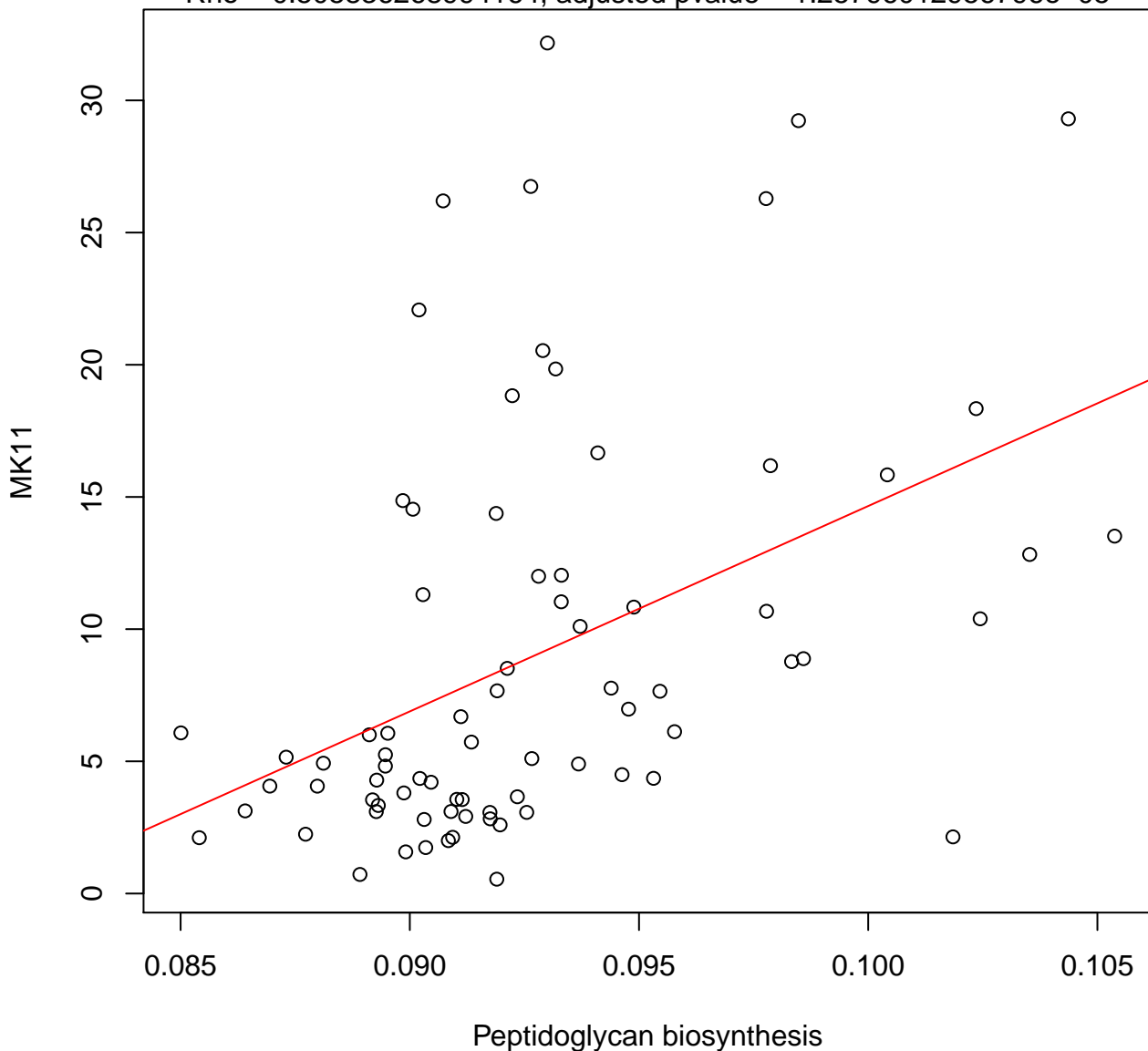
Timepoint 2 , MK11 ~ Pentose phosphate pathway

Rho = -0.271991166728009 , adjusted pvalue = 0.0359956971204478



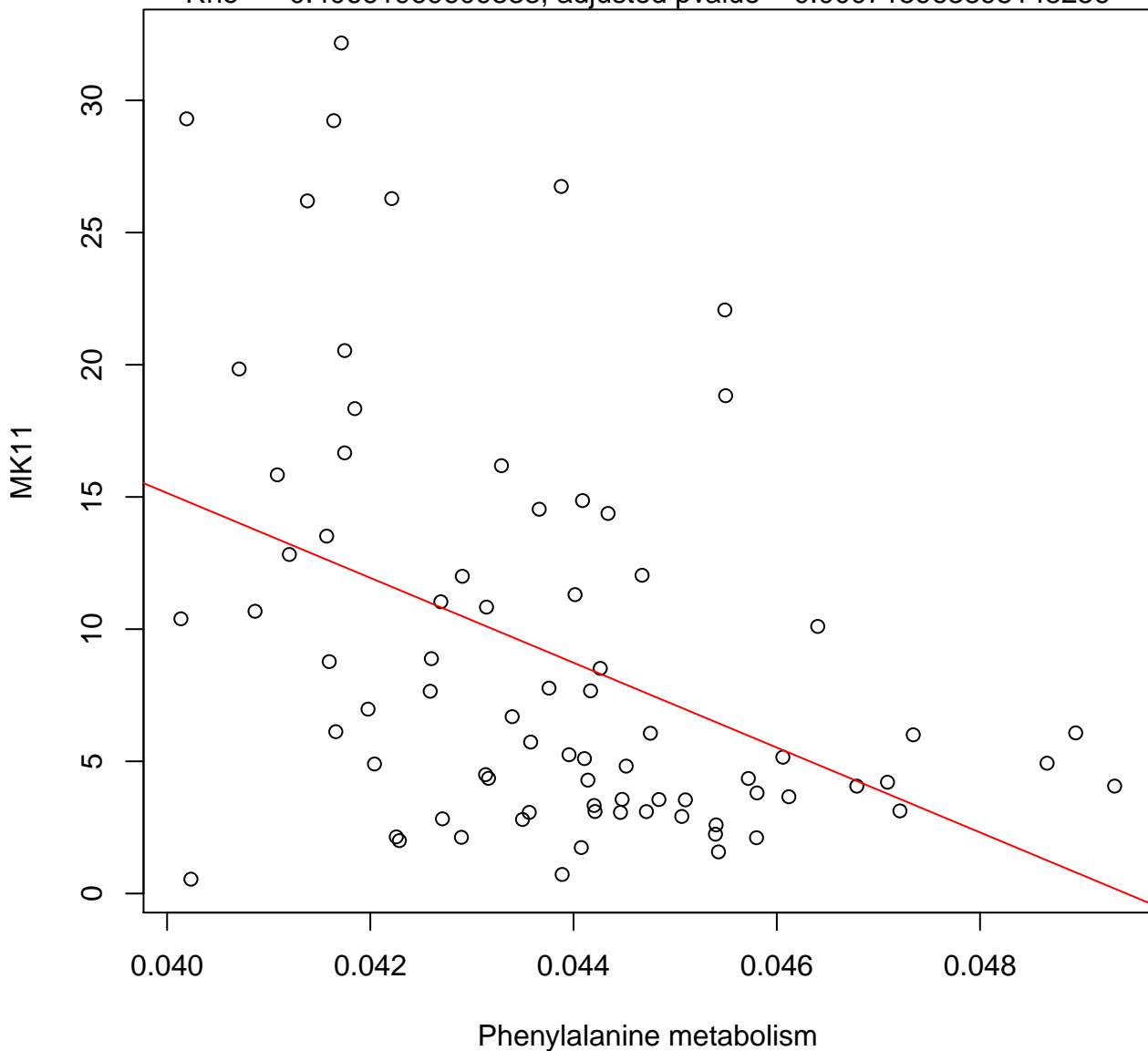
Timepoint 2 , MK11 ~ Peptidoglycan biosynthesis

Rho = 0.505836268994164, adjusted pvalue = 1.25796012956796e-05



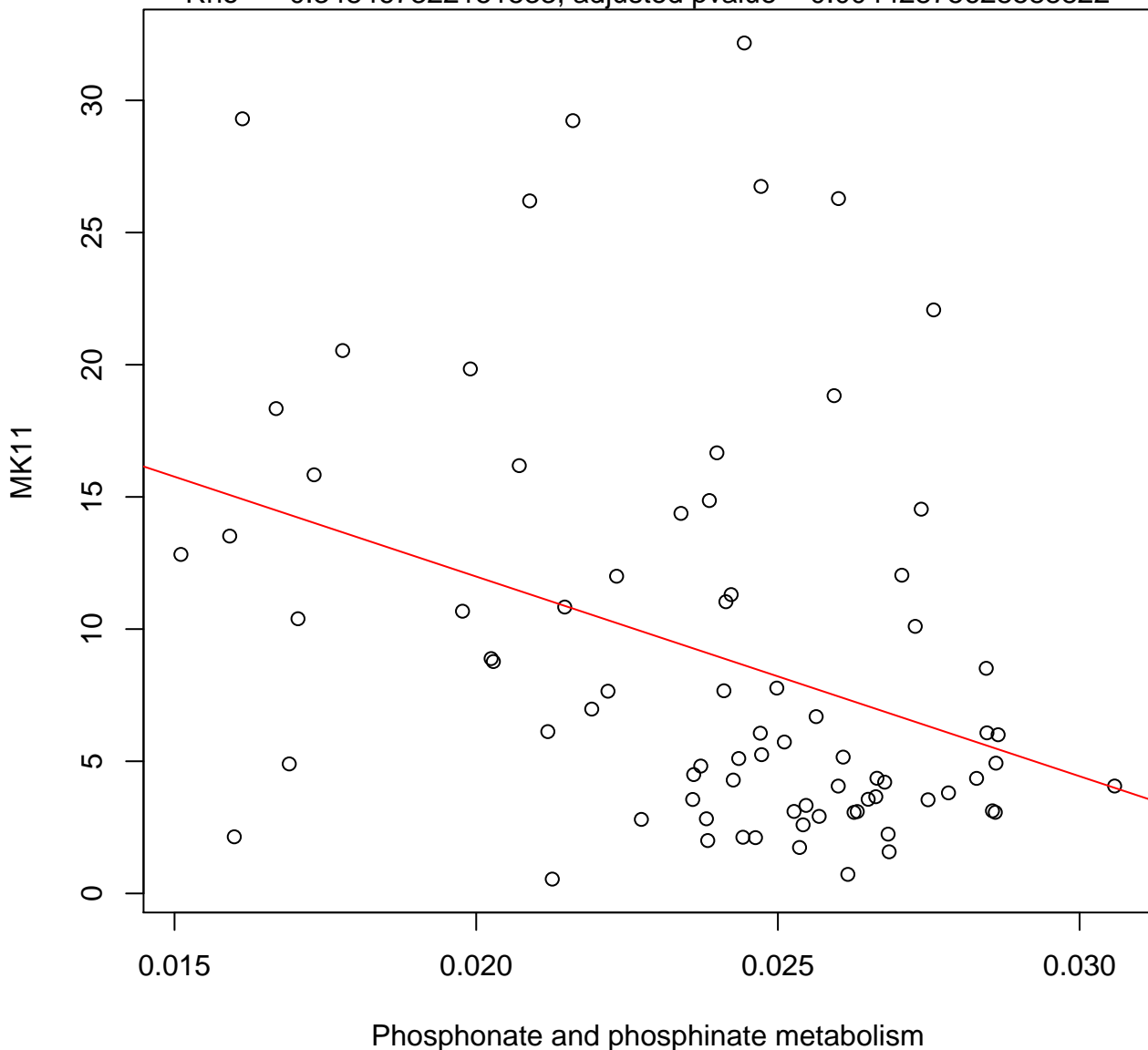
Timepoint 2 , MK11 ~ Phenylalanine metabolism

Rho = -0.40661969609338 , adjusted pvalue = 0.000715963898148256



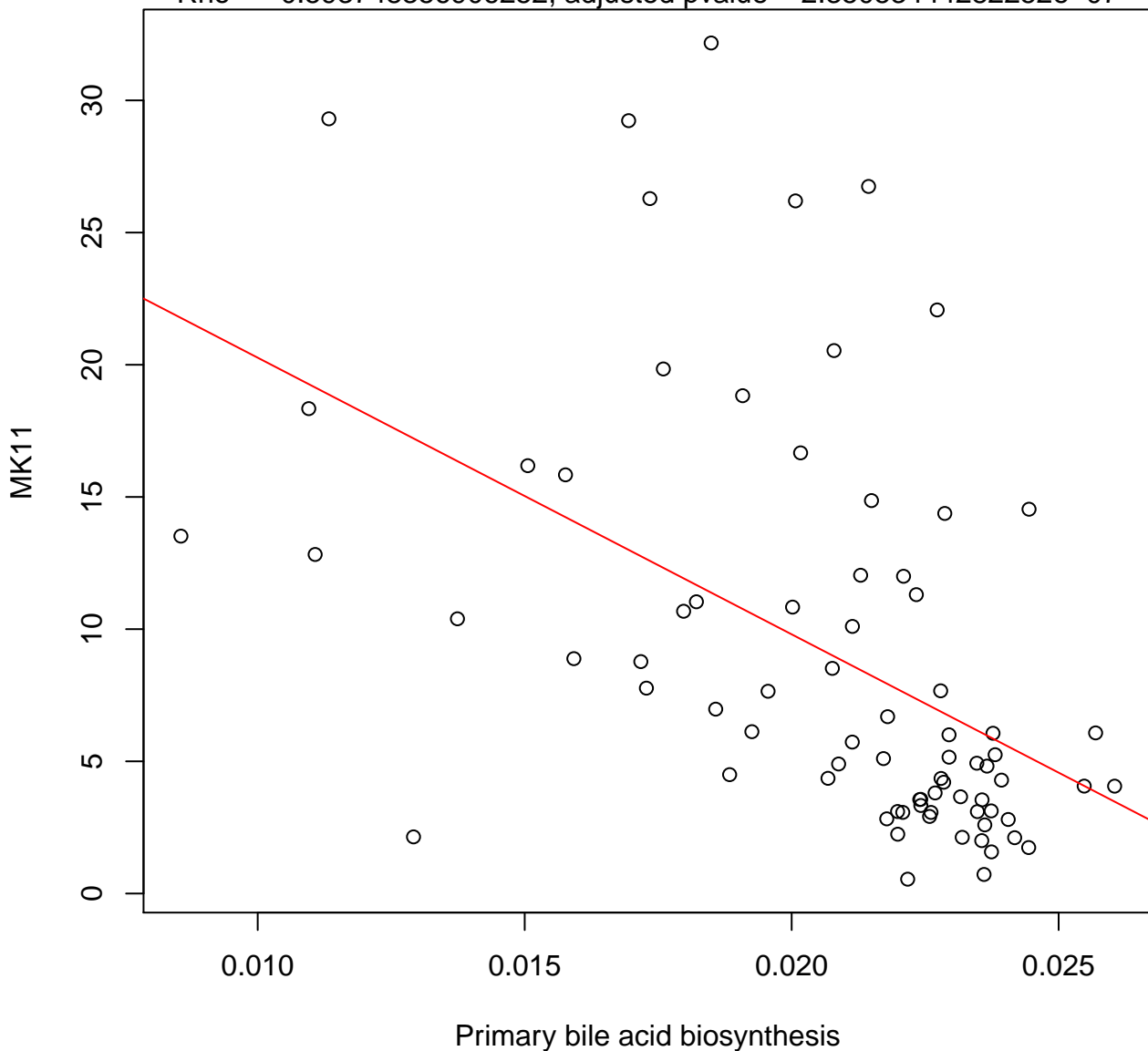
Timepoint 2 , MK11 ~ Phosphonate and phosphinate metabolism

Rho = -0.348467322151533 , adjusted pvalue = 0.0044287562858822



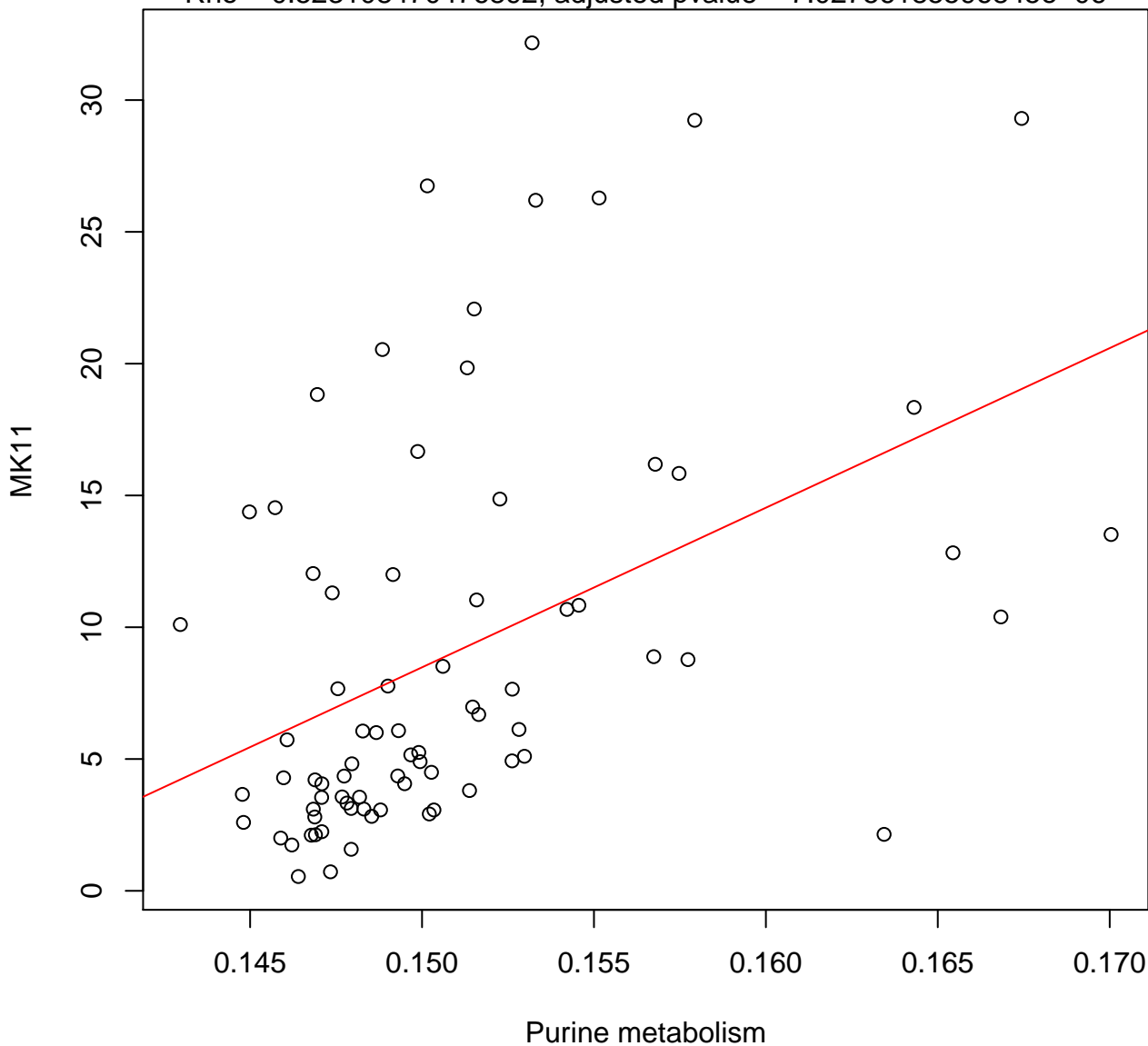
Timepoint 2 , MK11 ~ Primary bile acid biosynthesis

Rho = -0.593748356906252 , adjusted pvalue = $2.35053444282252e-07$



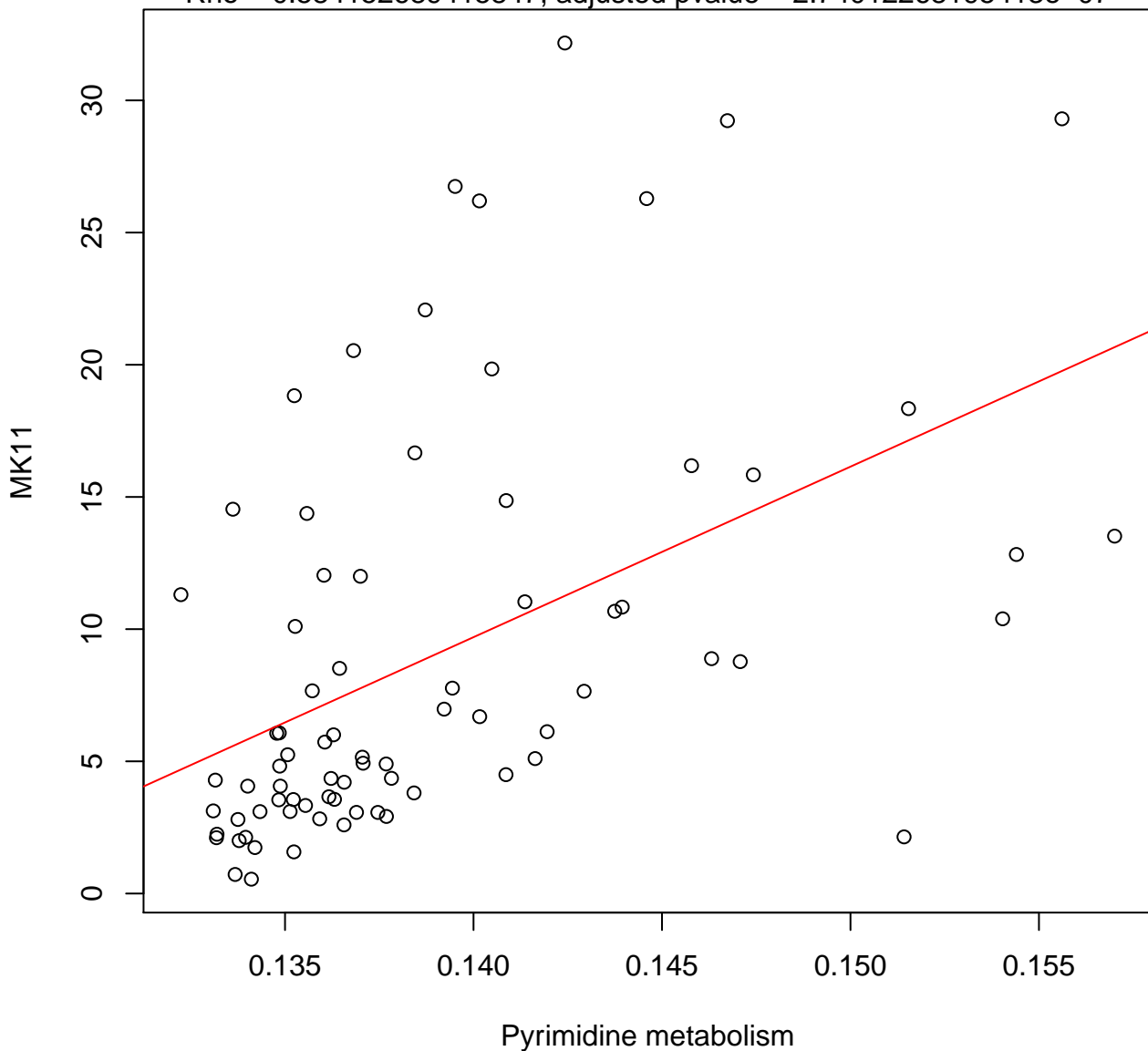
Timepoint 2 , MK11 ~ Purine metabolism

Rho = 0.523108470476892, adjusted pvalue = 7.02756185596845e-06



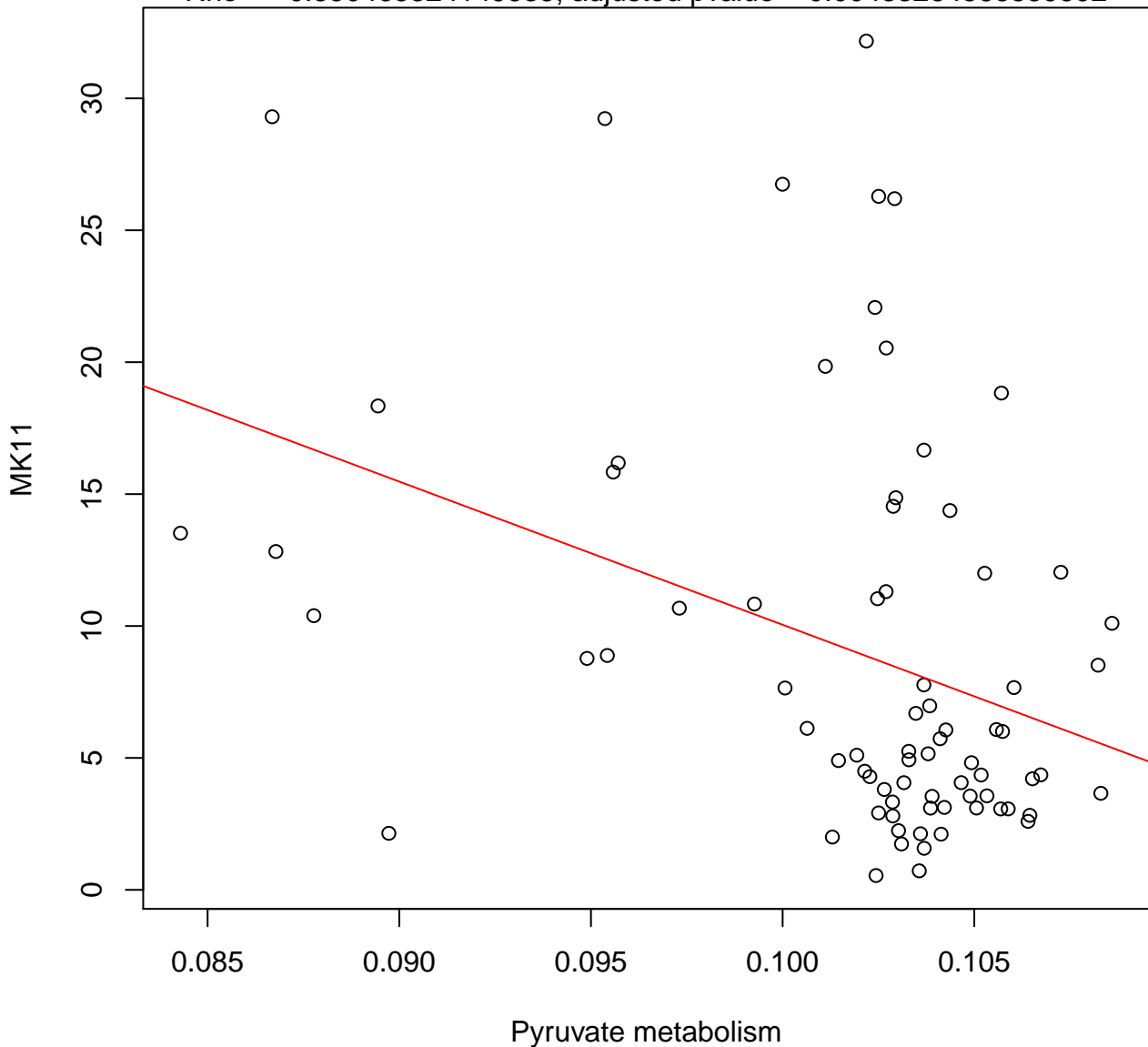
Timepoint 2 , MK11 ~ Pyrimidine metabolism

Rho = 0.584152689415847, adjusted pvalue = 2.74012268195413e-07



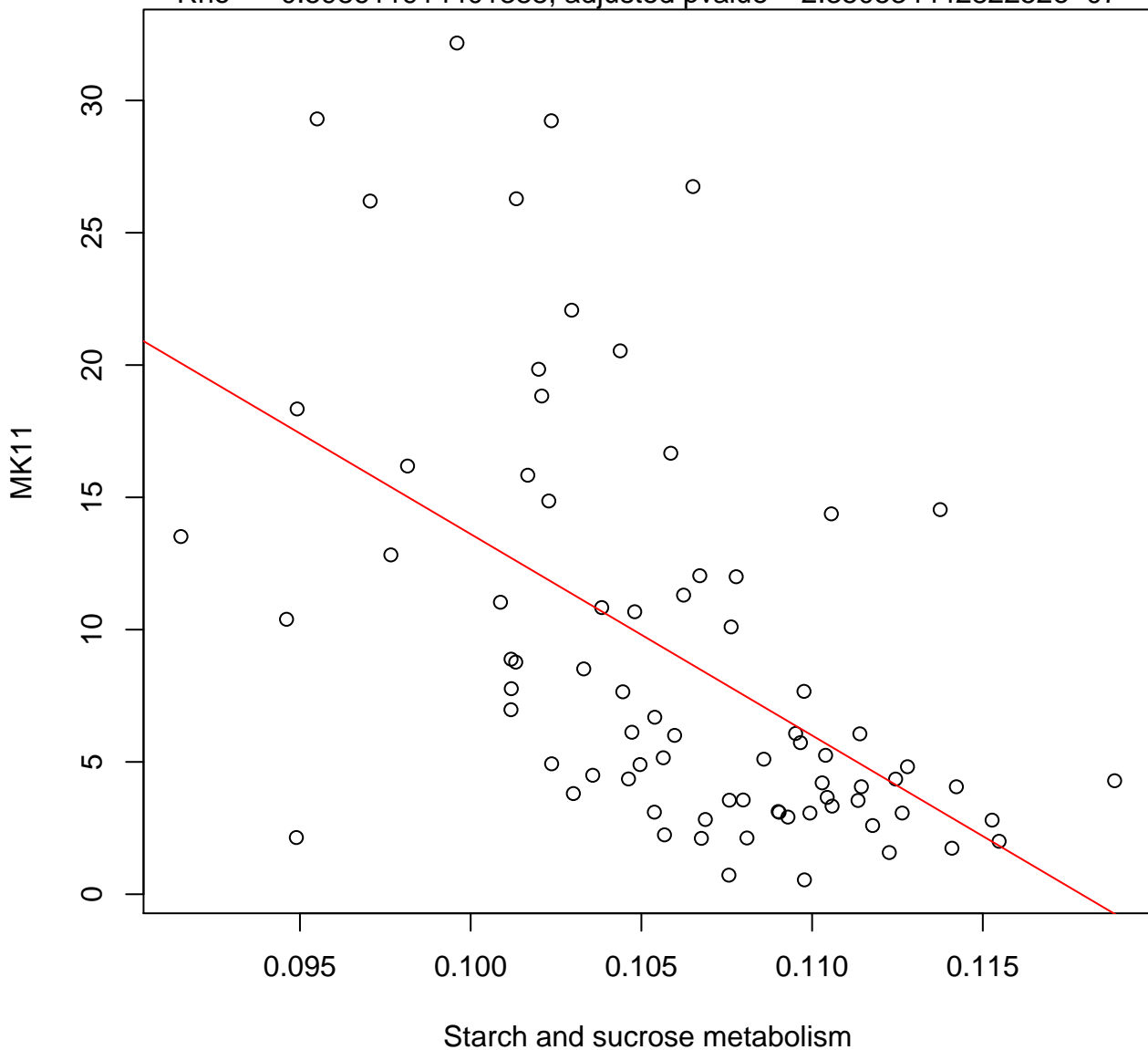
Timepoint 2 , MK11 ~ Pyruvate metabolism

Rho = -0.350465324149535 , adjusted pvalue = 0.00433264566339592



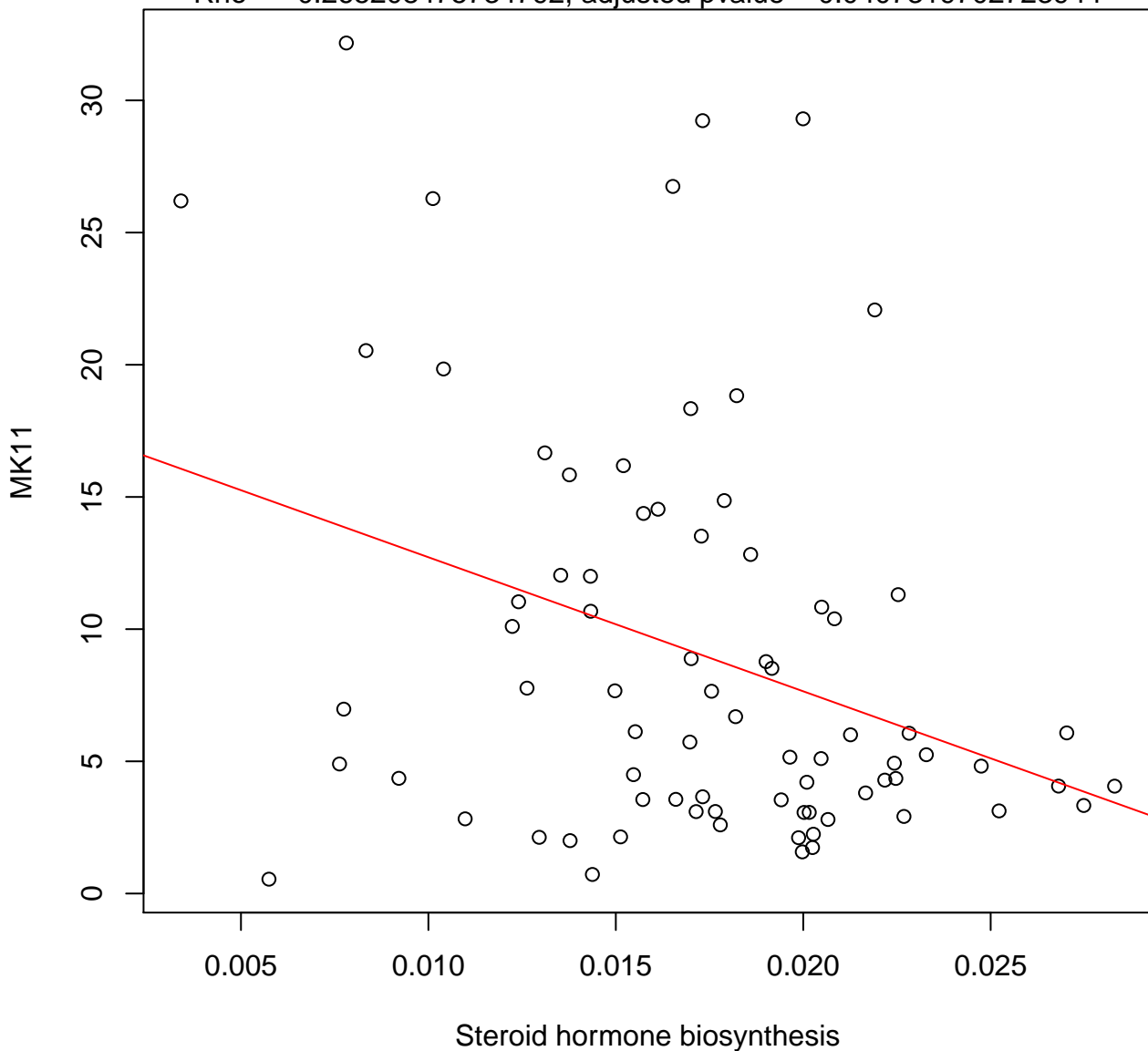
Timepoint 2 , MK11 ~ Starch and sucrose metabolism

Rho = -0.598611914401388 , adjusted pvalue = $2.35053444282252e-07$



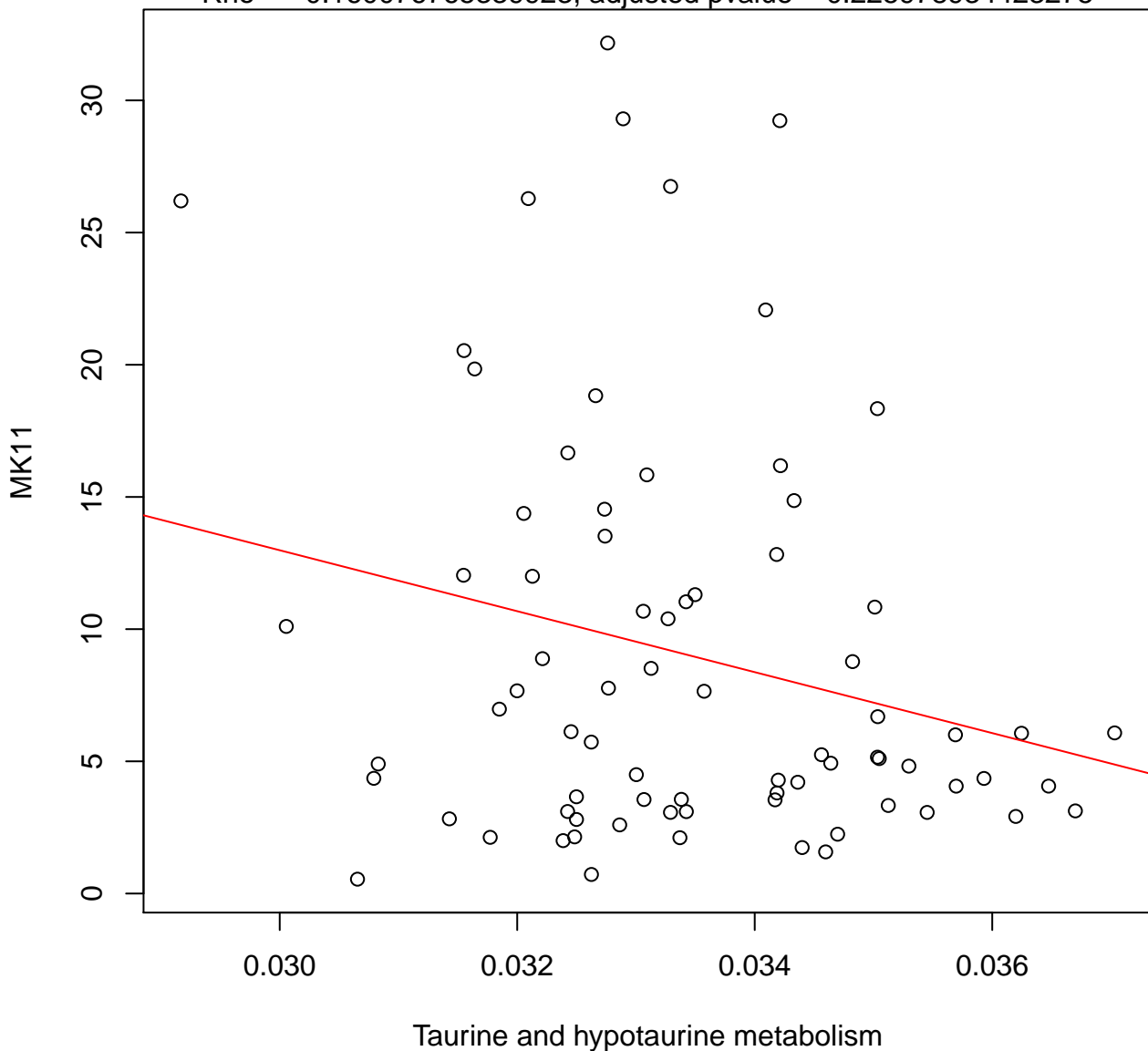
Timepoint 2 , MK11 ~ Steroid hormone biosynthesis

Rho = -0.265208475734792 , adjusted pvalue = 0.0407319702723944



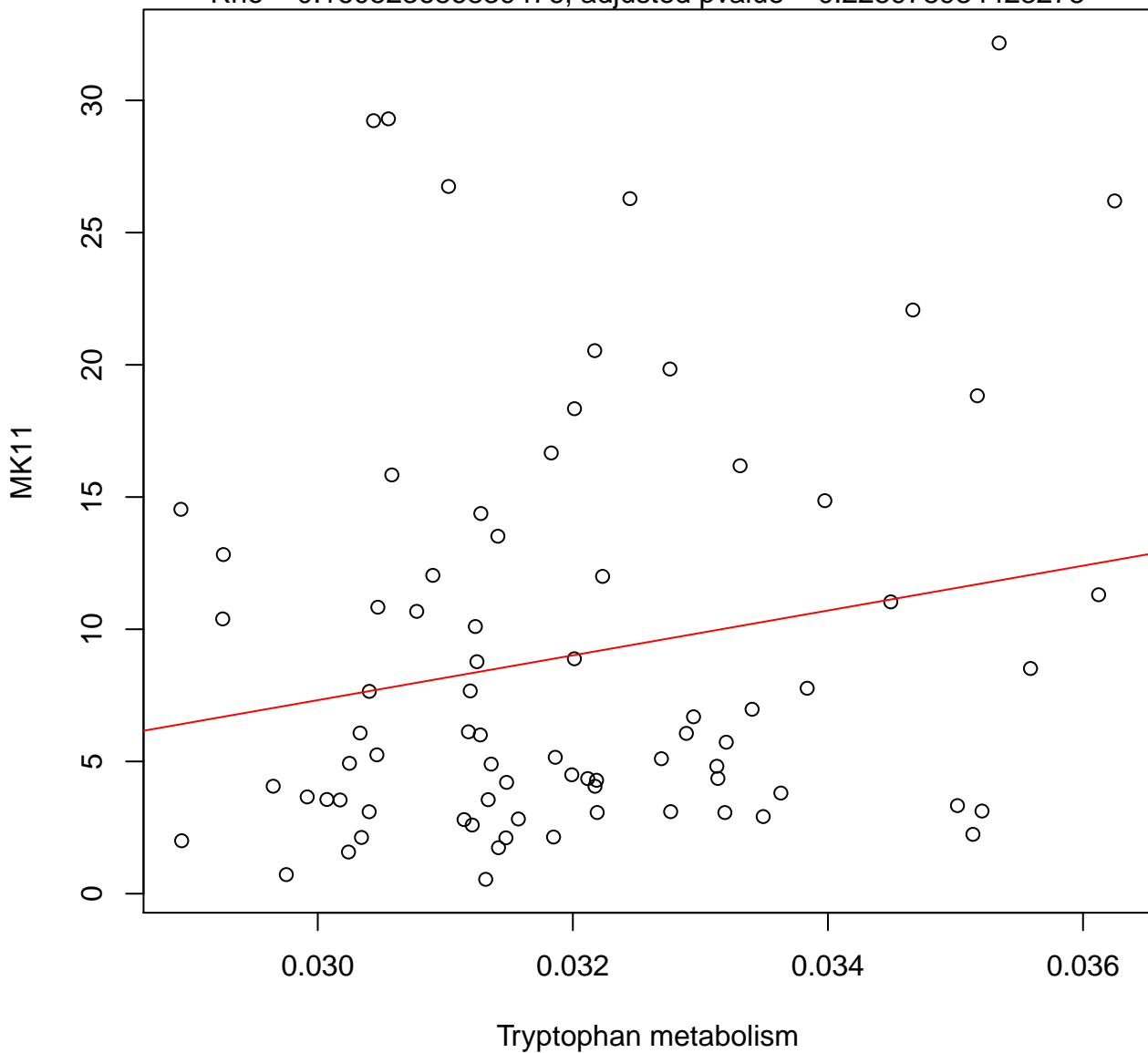
Timepoint 2 , MK11 ~ Taurine and hypotaurine metabolism

Rho = -0.160076765339923, adjusted pvalue = 0.225978934423275



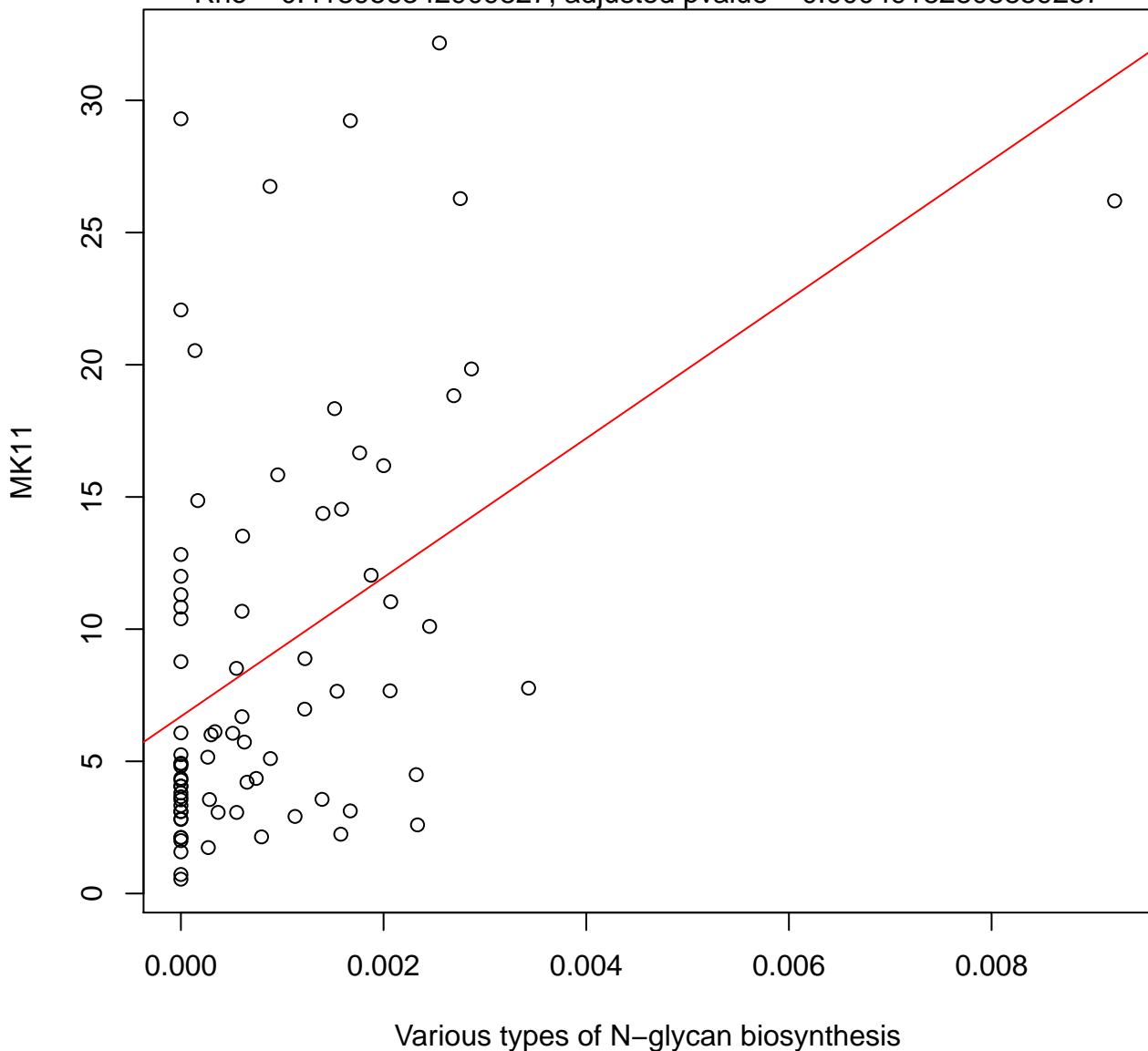
Timepoint 2 , MK11 ~ Tryptophan metabolism

Rho = 0.160523686839476, adjusted pvalue = 0.225978934423275



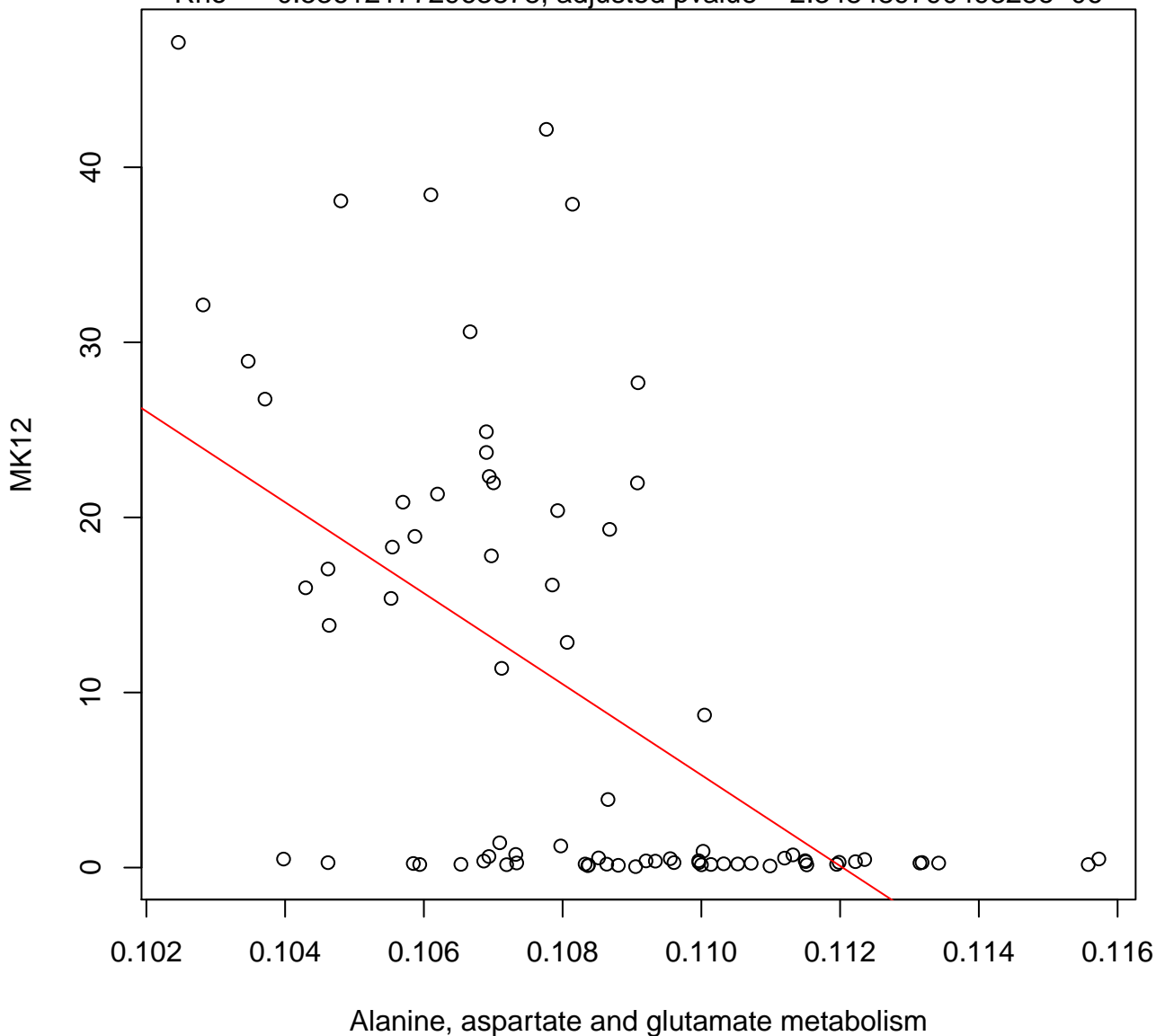
Timepoint 2 , MK11 ~ Various types of N-glycan biosynthesis

Rho = 0.418956342909827, adjusted pvalue = 0.00049182808859257



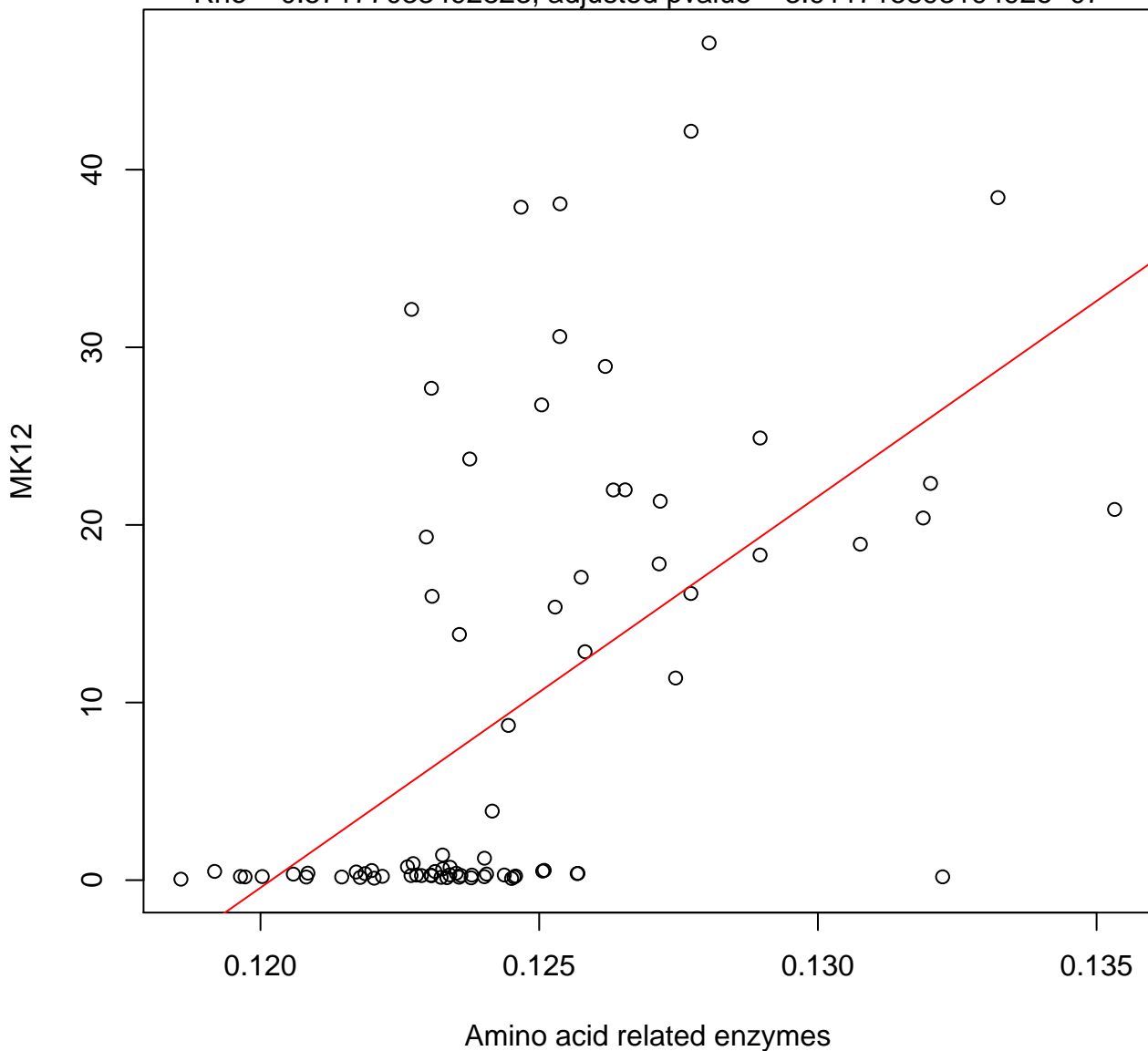
Timepoint 2 , MK12 ~ Alanine, aspartate and glutamate metabolism

Rho = -0.536121772963878 , adjusted pvalue = $2.34848979049328e-06$



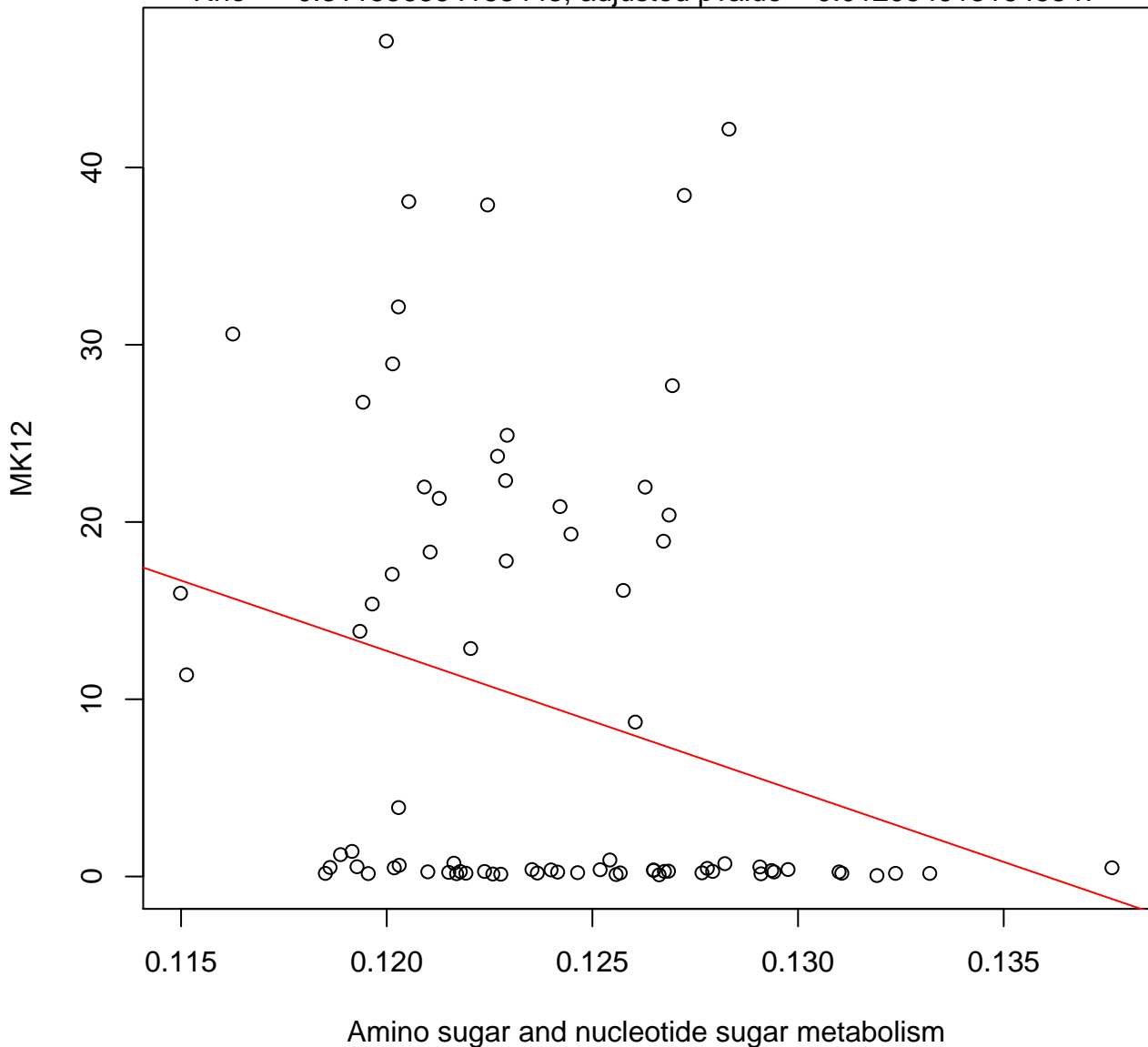
Timepoint 2 , MK12 ~ Amino acid related enzymes

Rho = 0.57177033492823, adjusted pvalue = 3.91171589319492e-07



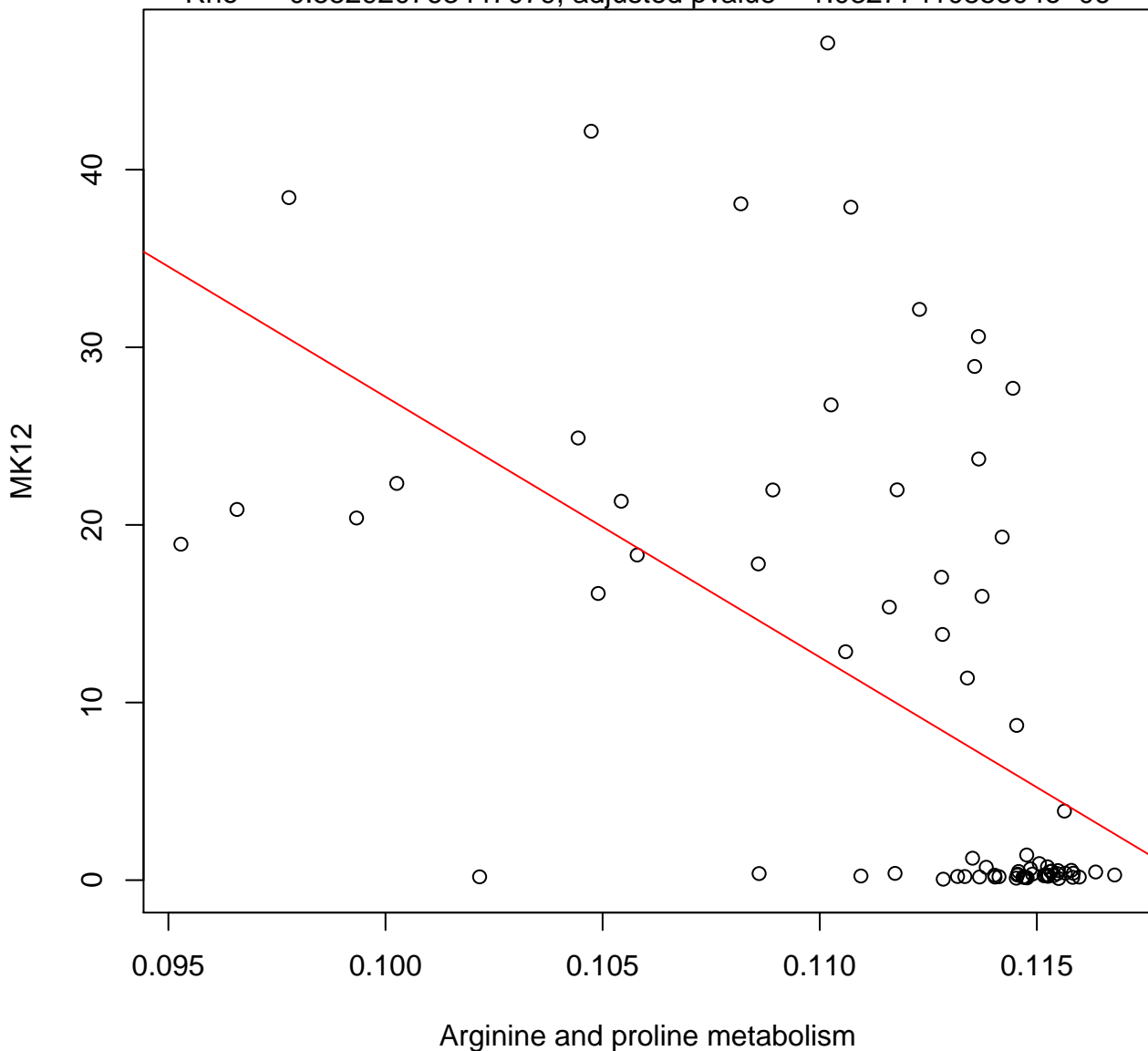
Timepoint 2 , MK12 ~ Amino sugar and nucleotide sugar metabolism

Rho = -0.311556864188443, adjusted pvalue = 0.0120549131645347



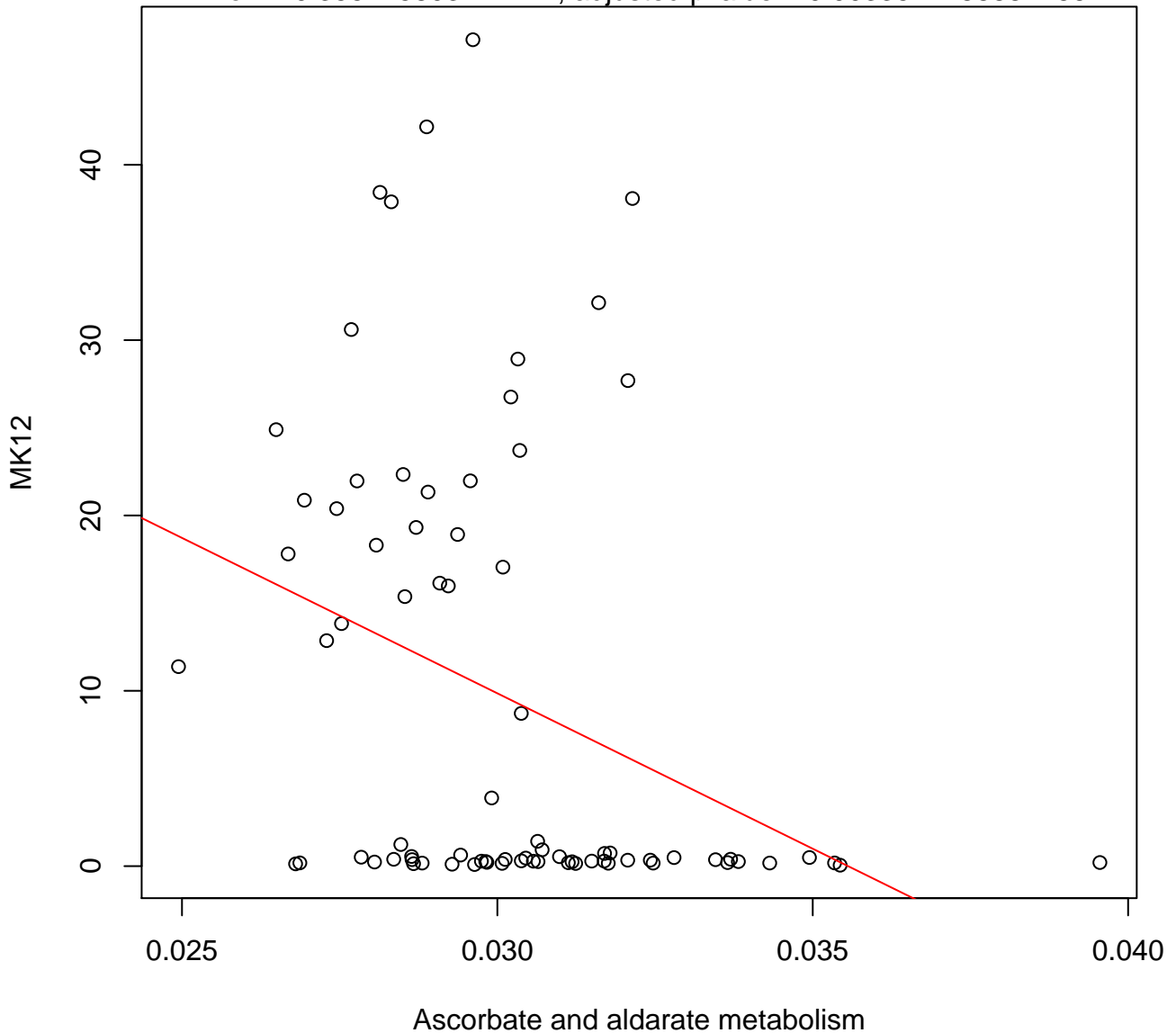
Timepoint 2 , MK12 ~ Arginine and proline metabolism

Rho = -0.552920763447079 , adjusted pvalue = $1.0327741085304e-06$



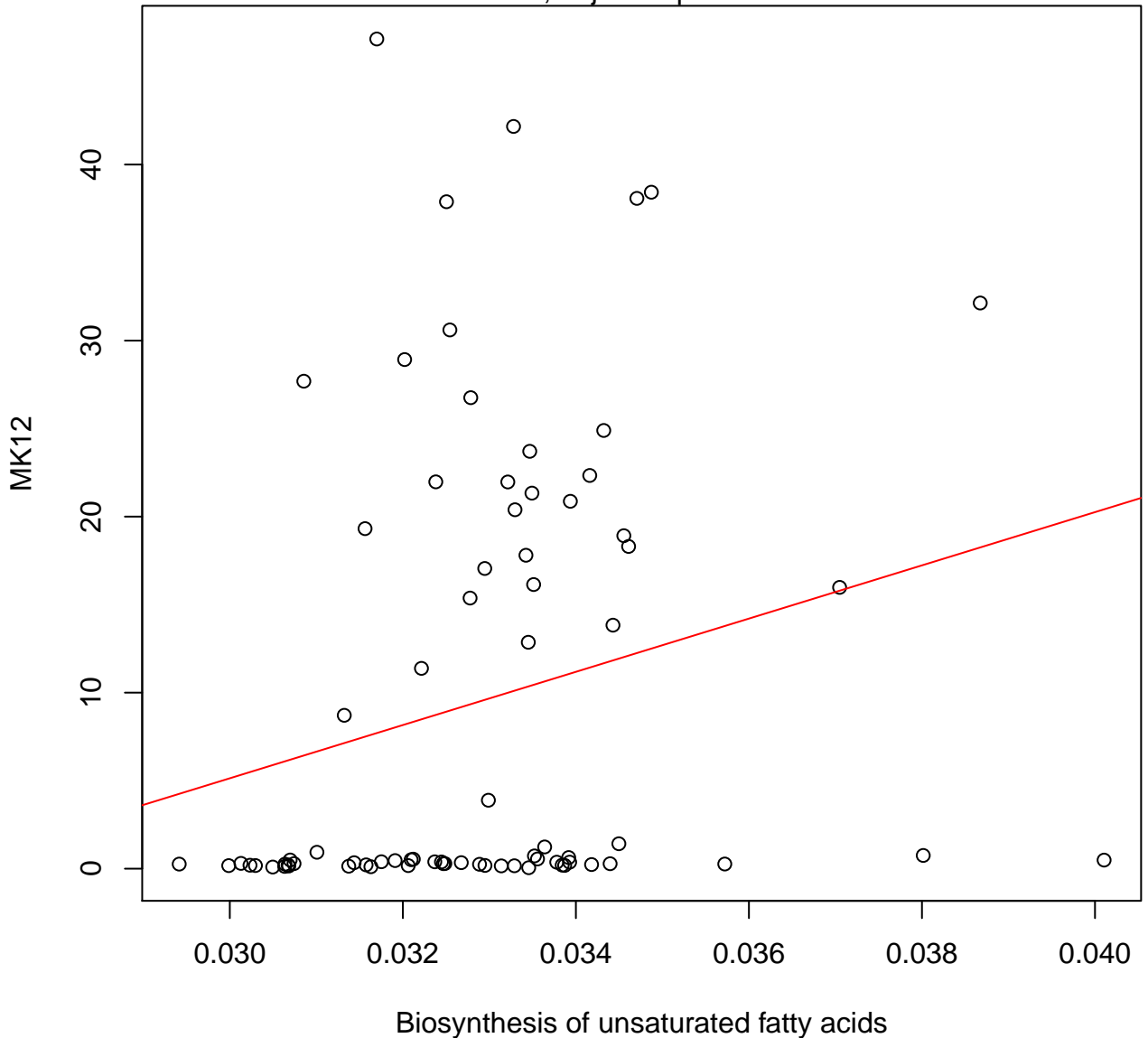
Timepoint 2 , MK12 ~ Ascorbate and aldarate metabolism

Rho = -0.355775803144224 , adjusted pvalue = 0.003351248882166



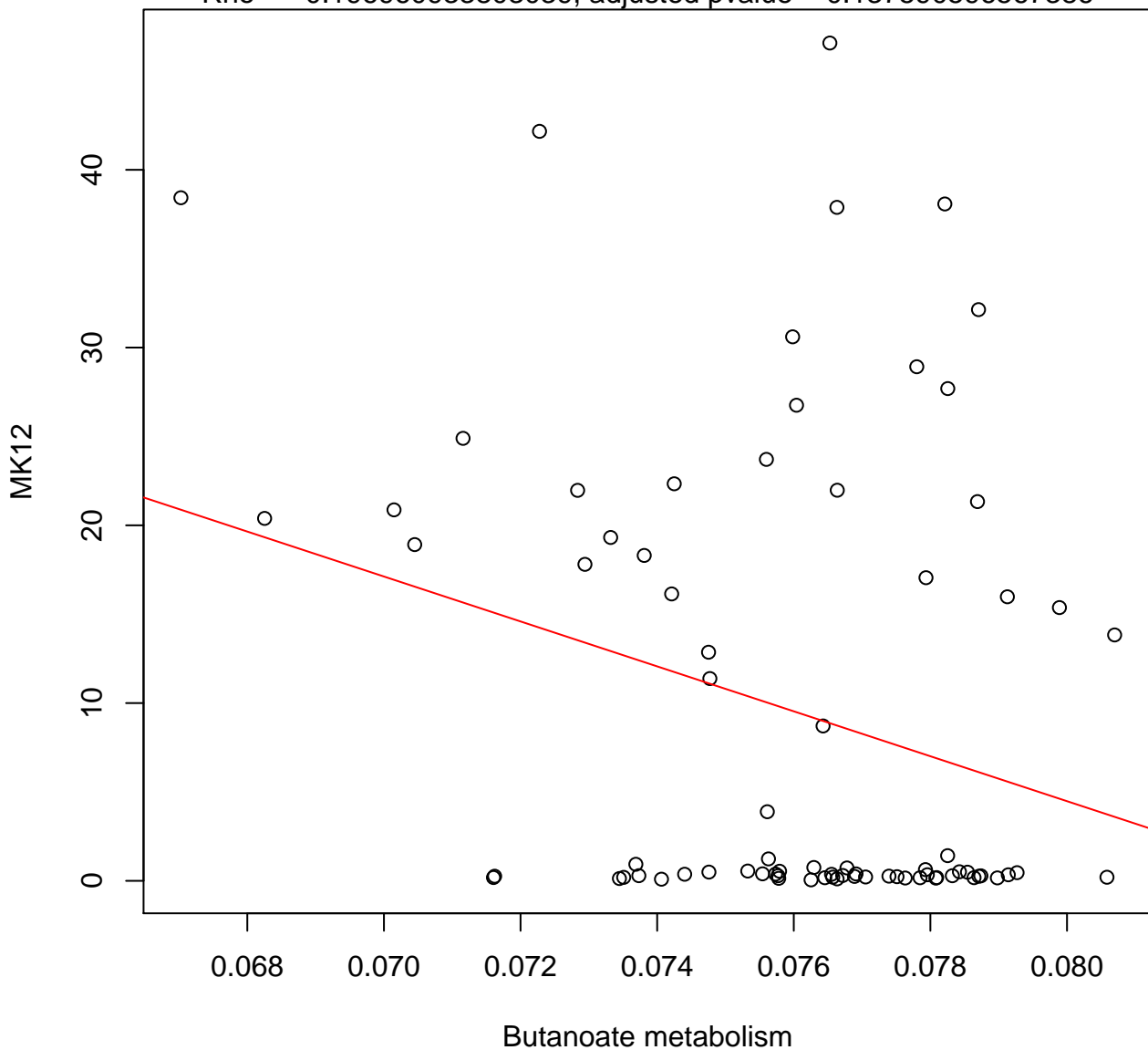
Timepoint 2 , MK12 ~ Biosynthesis of unsaturated fatty acids

Rho = 0.380934854619065, adjusted pvalue = 0.00147274956162984



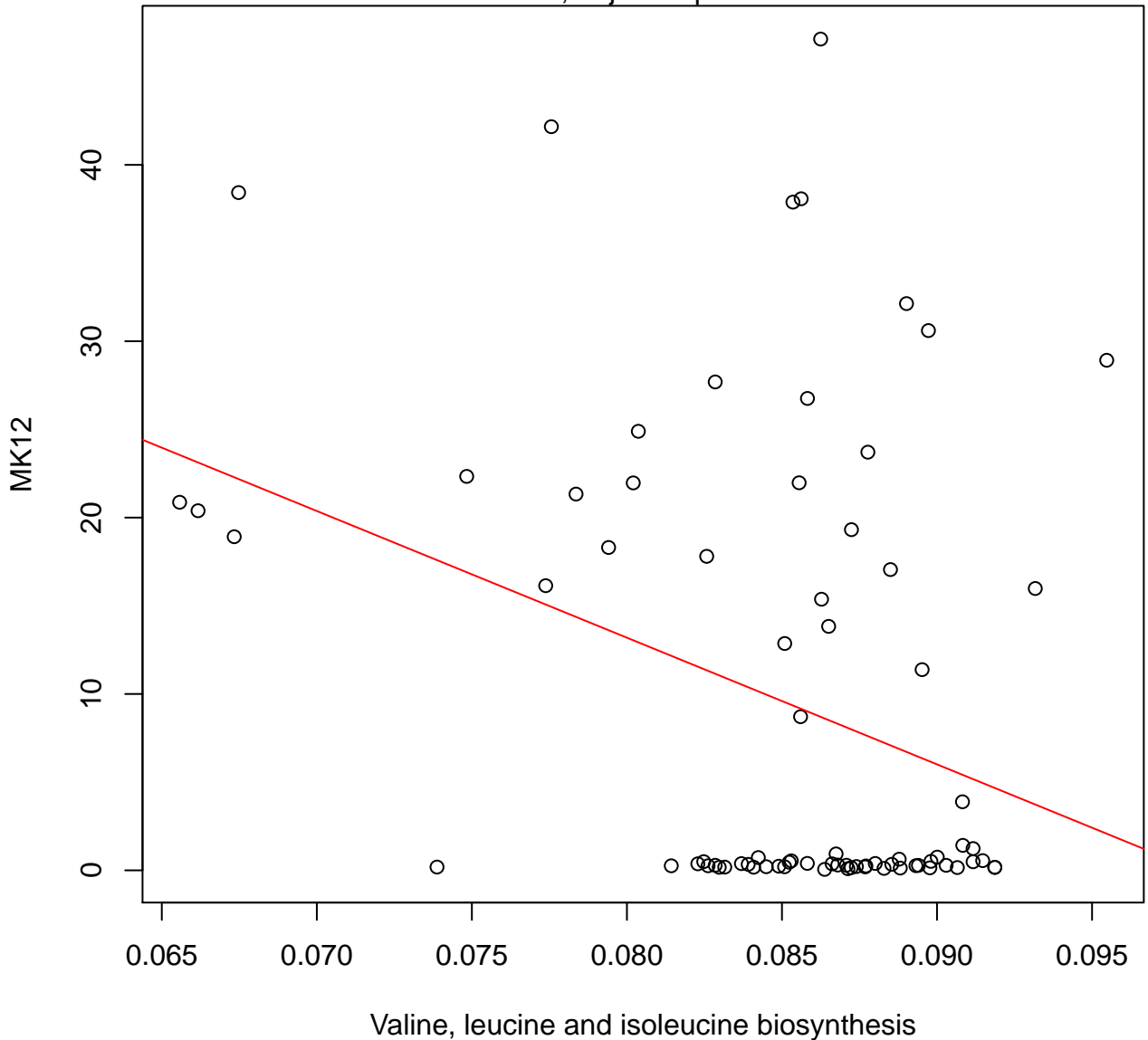
Timepoint 2 , MK12 ~ Butanoate metabolism

Rho = -0.196960933803039 , adjusted pvalue = 0.137590596567386



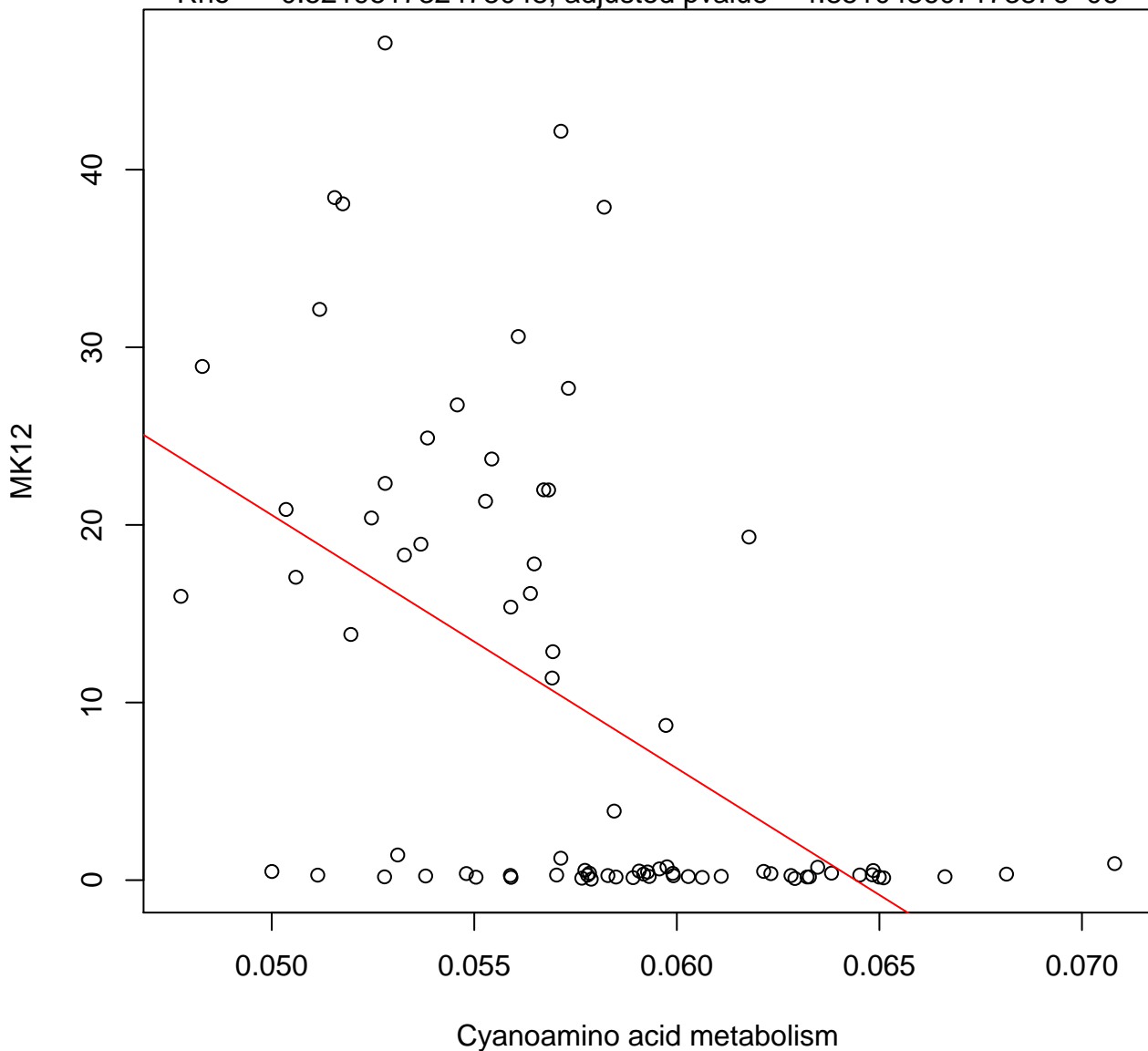
Timepoint 2 , MK12 ~ Valine, leucine and isoleucine biosynthesis

Rho = -0.226168568273831, adjusted pvalue = 0.0894944640036057



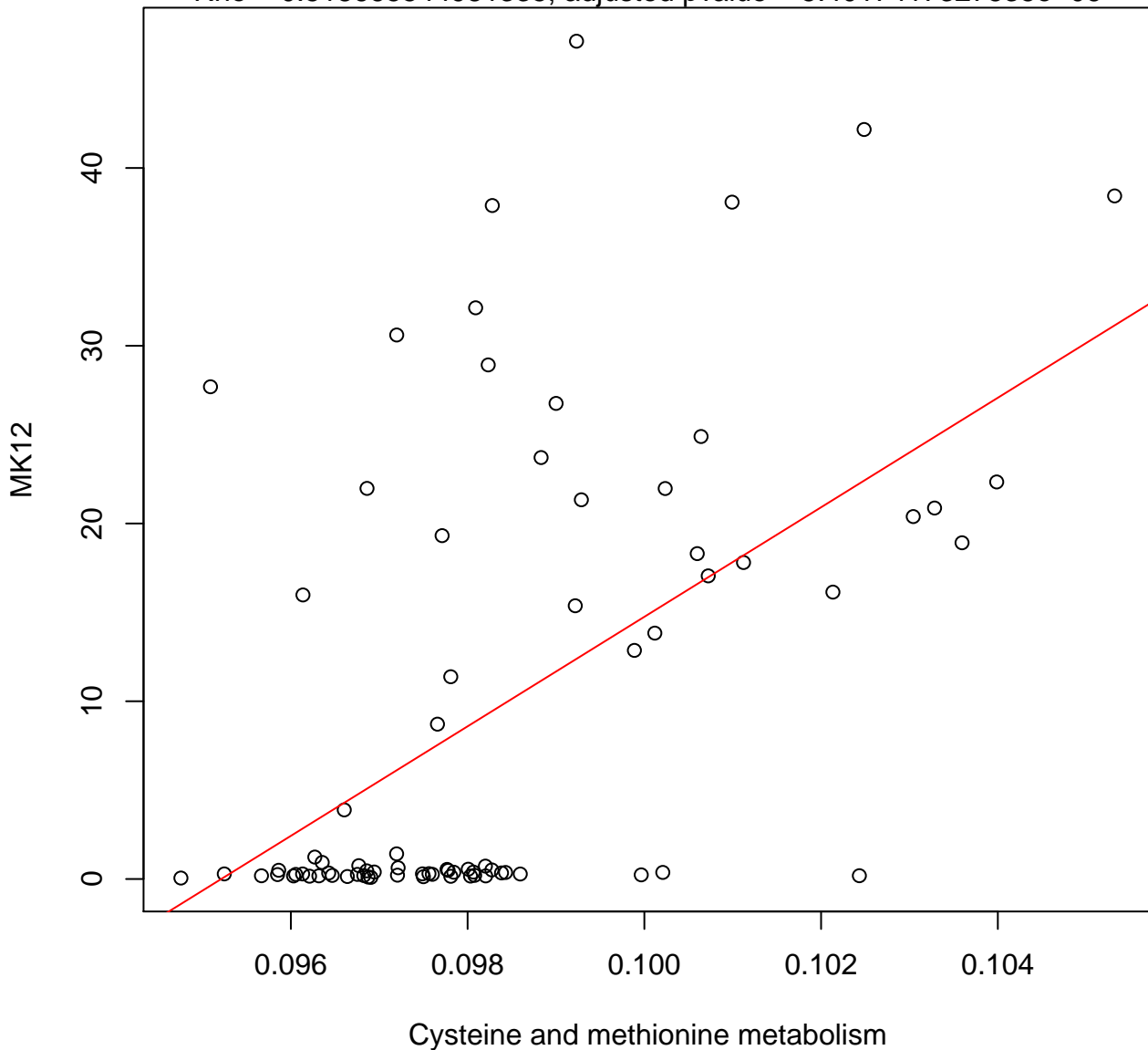
Timepoint 2 , MK12 ~ Cyanoamino acid metabolism

Rho = -0.521951732478048 , adjusted pvalue = $4.85104360717387e-06$



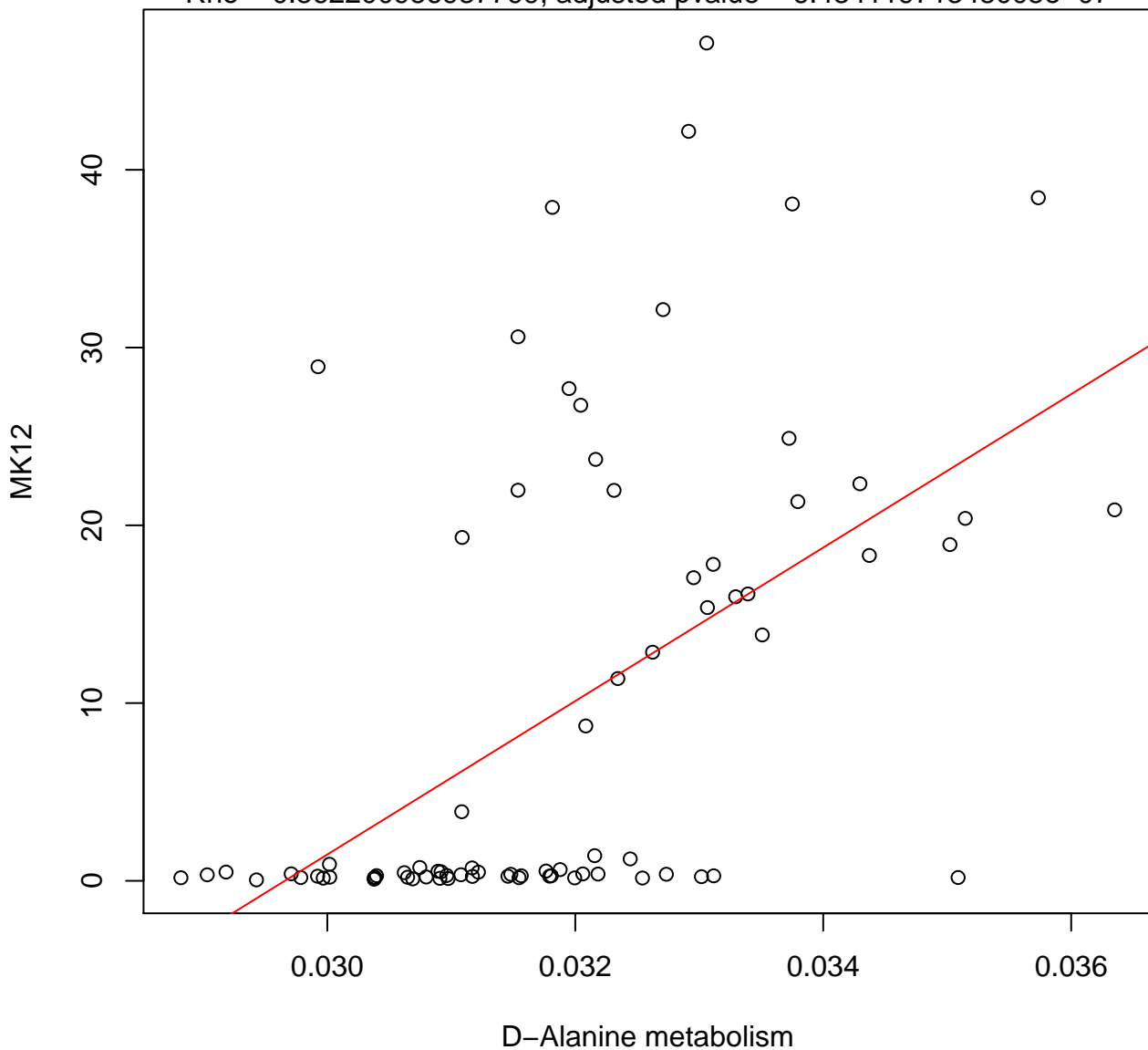
Timepoint 2 , MK12 ~ Cysteine and methionine metabolism

Rho = 0.518665544981335, adjusted pvalue = 5.4017417327535e-06



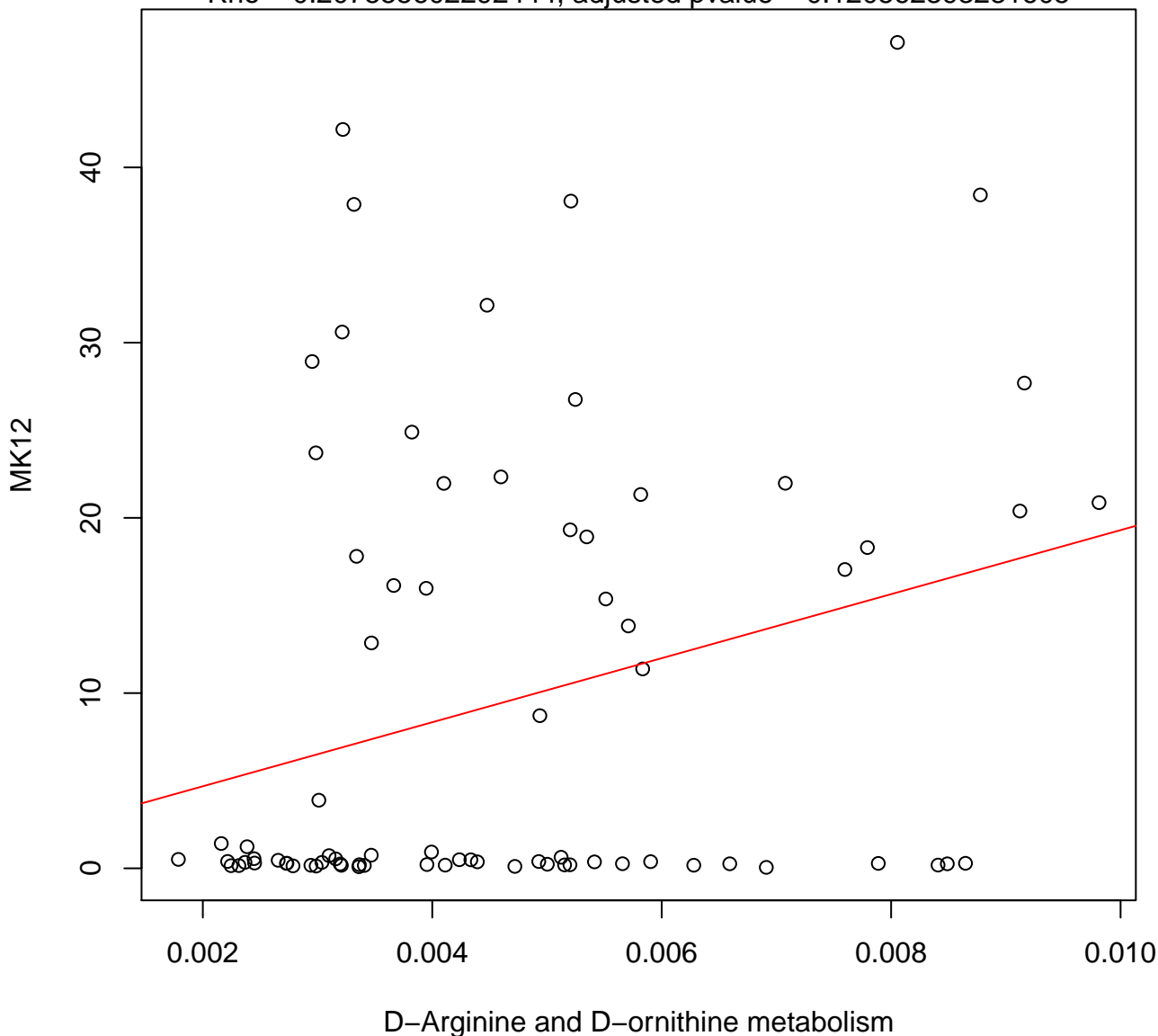
Timepoint 2 , MK12 ~ D-Alanine metabolism

Rho = 0.562200956937799, adjusted pvalue = 6.43411971348005e-07



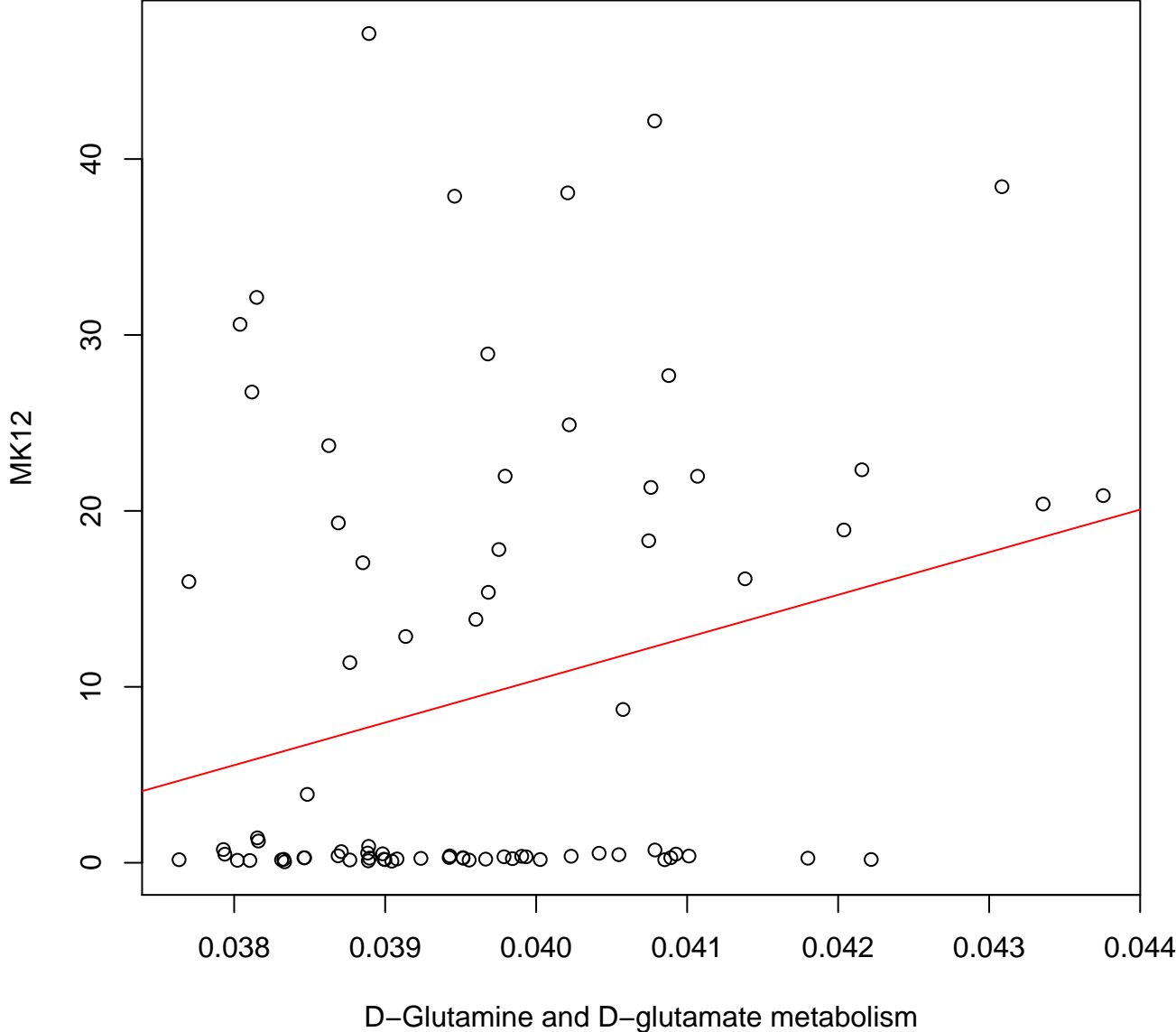
Timepoint 2 , MK12 ~ D-Arginine and D-ornithine metabolism

Rho = 0.207555602292444, adjusted pvalue = 0.120562393231605



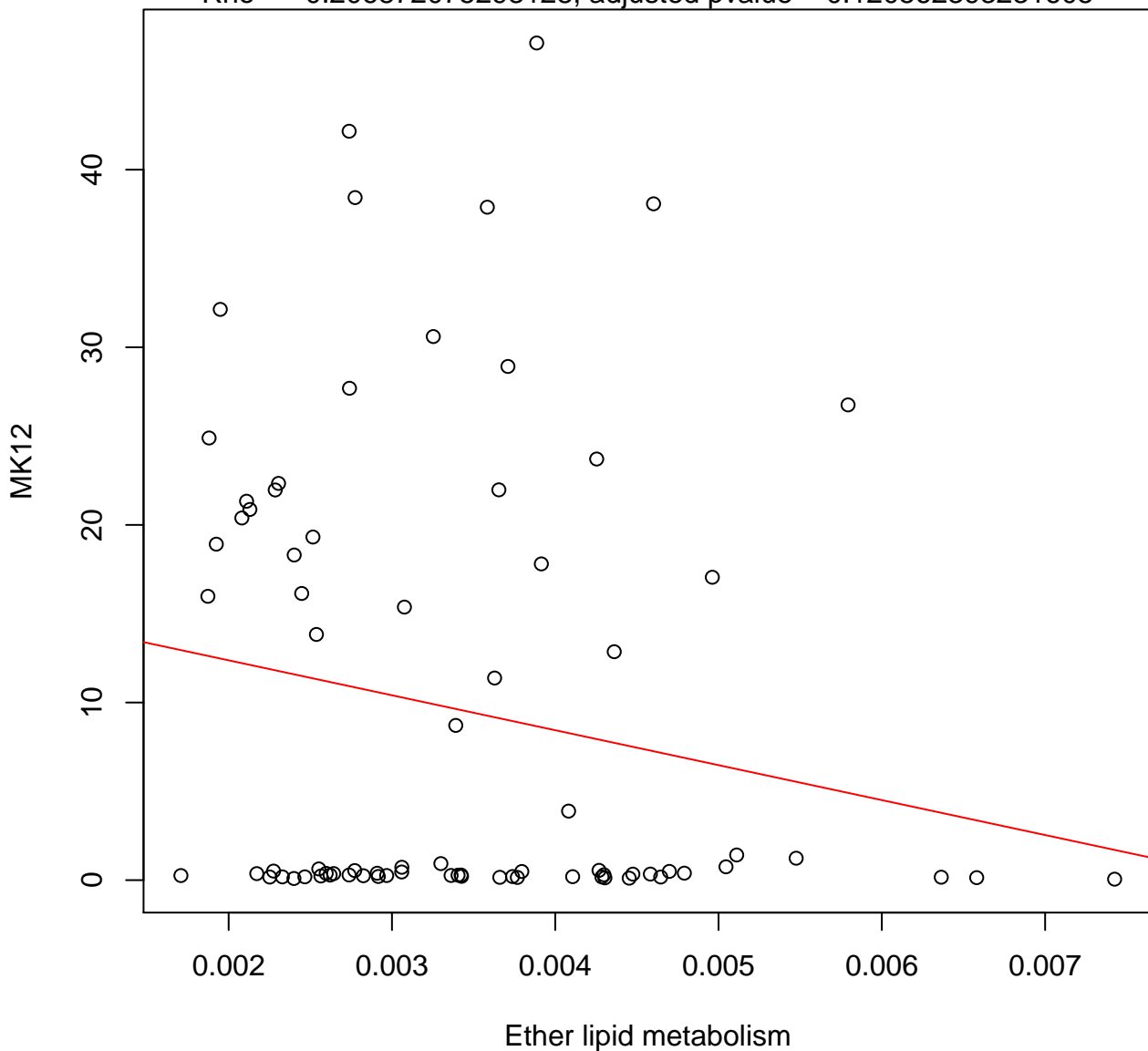
Timepoint 2 , MK12 ~ D-Glutamine and D-glutamate metabolism

Rho = 0.219806509280193, adjusted pvalue = 0.0989137867513144



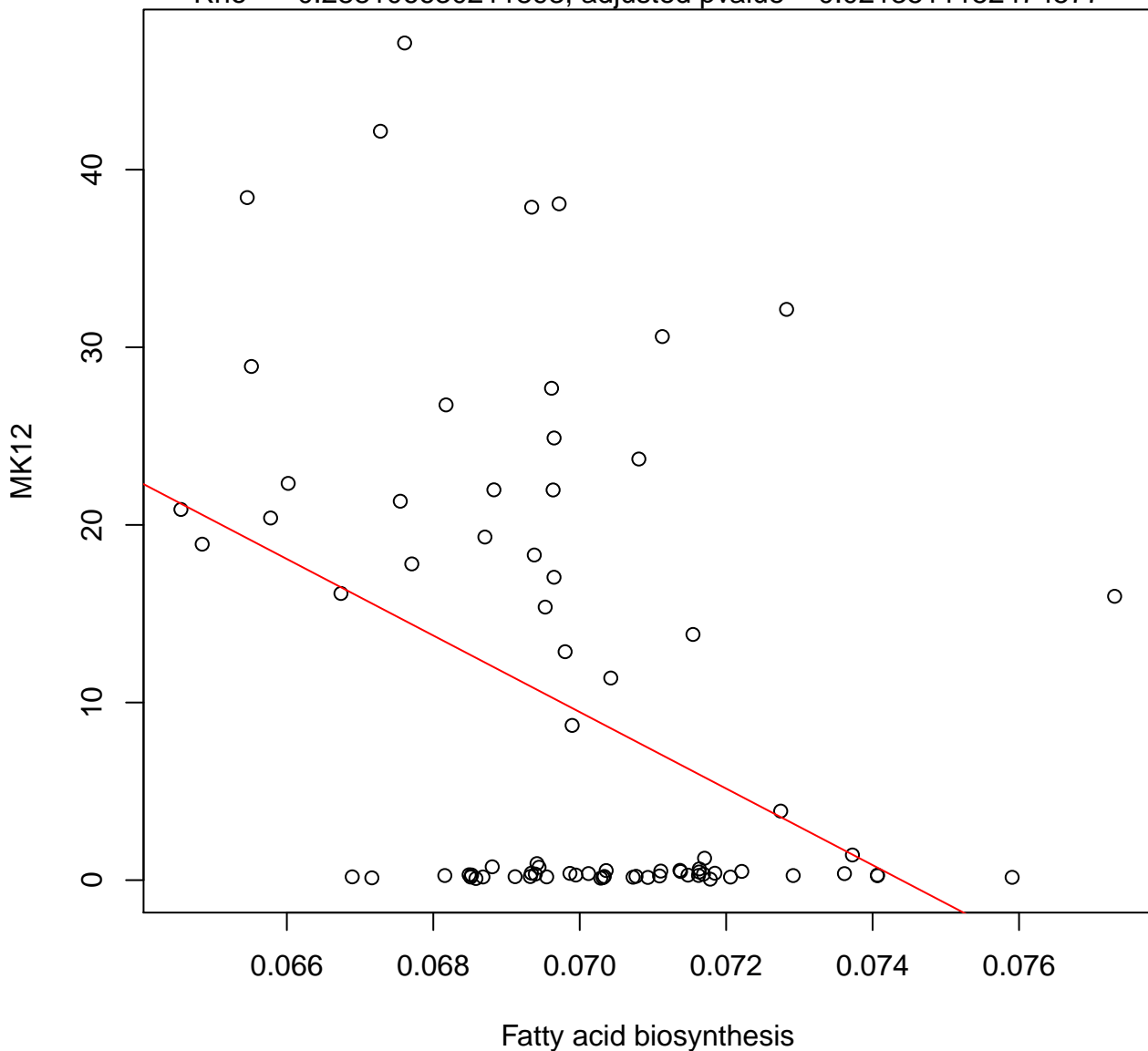
Timepoint 2 , MK12 ~ Ether lipid metabolism

Rho = -0.206872075293128 , adjusted pvalue = 0.120562393231605



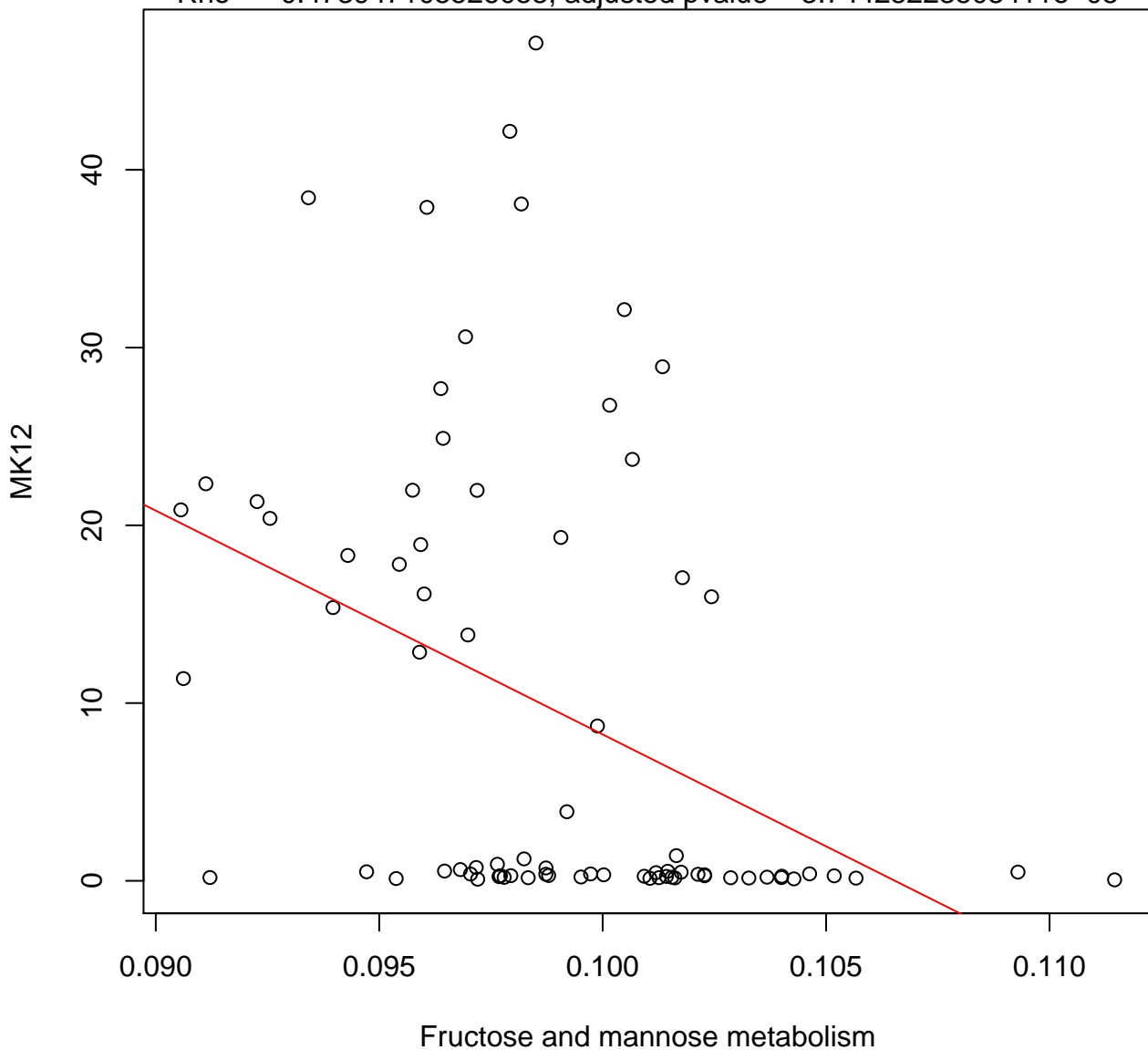
Timepoint 2 , MK12 ~ Fatty acid biosynthesis

Rho = -0.288106630211893 , adjusted pvalue = 0.0213511152474577



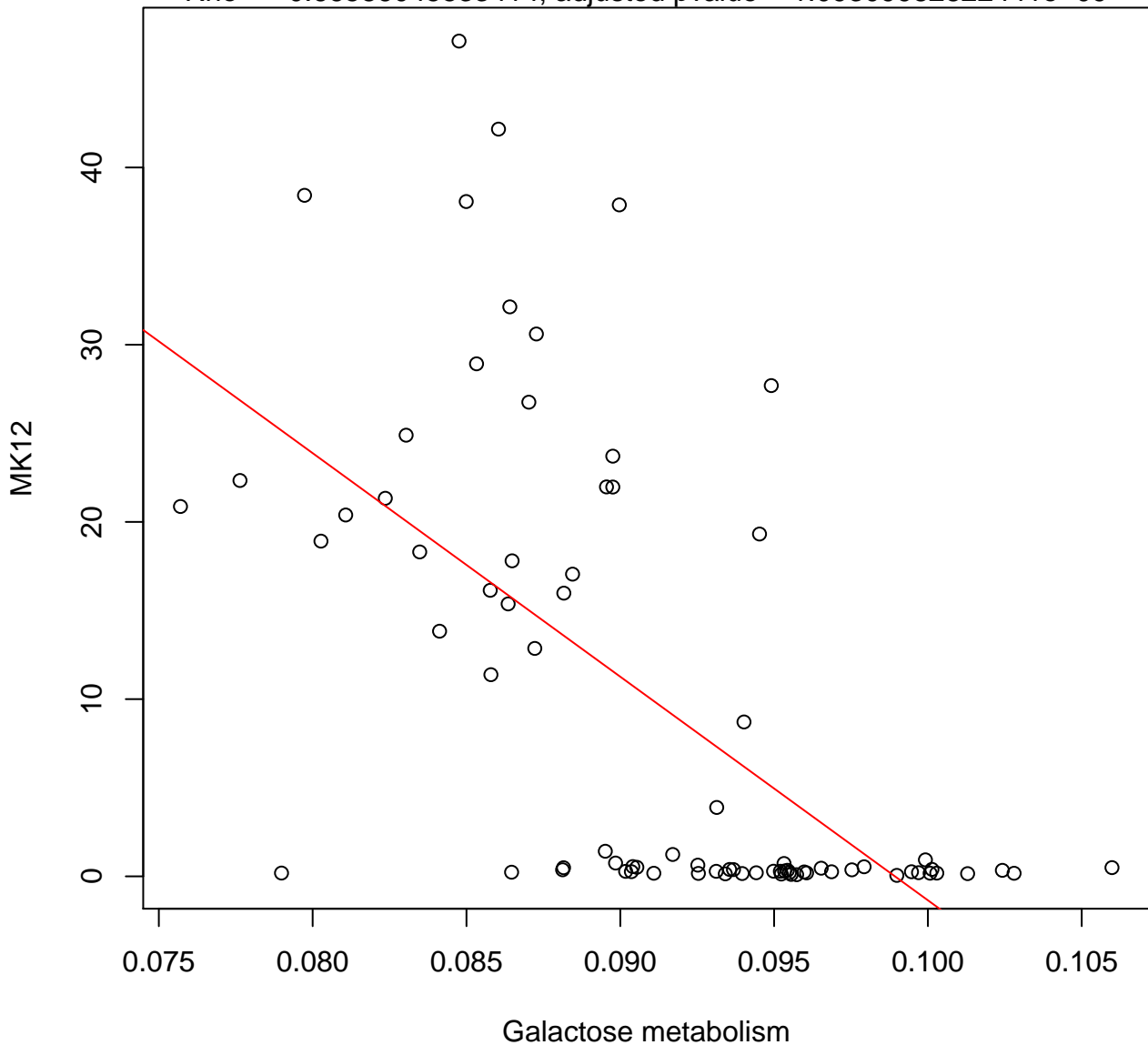
Timepoint 2 , MK12 ~ Fructose and mannose metabolism

Rho = -0.473947105526053 , adjusted pvalue = $3.74425223503411\text{e-}05$



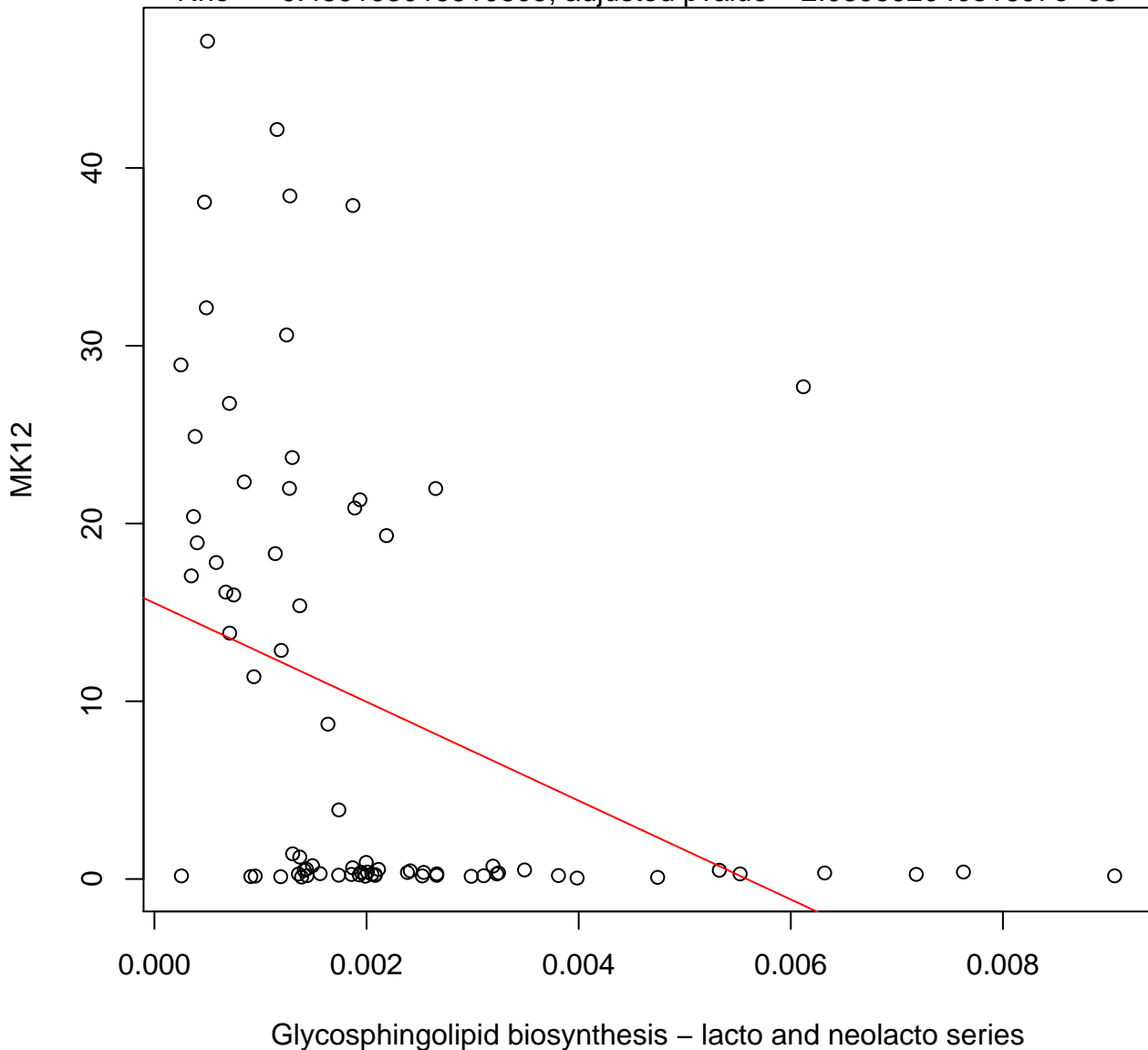
Timepoint 2 , MK12 ~ Galactose metabolism

Rho = -0.66586045533414 , adjusted pvalue = $1.09309982822441\text{e-}09$



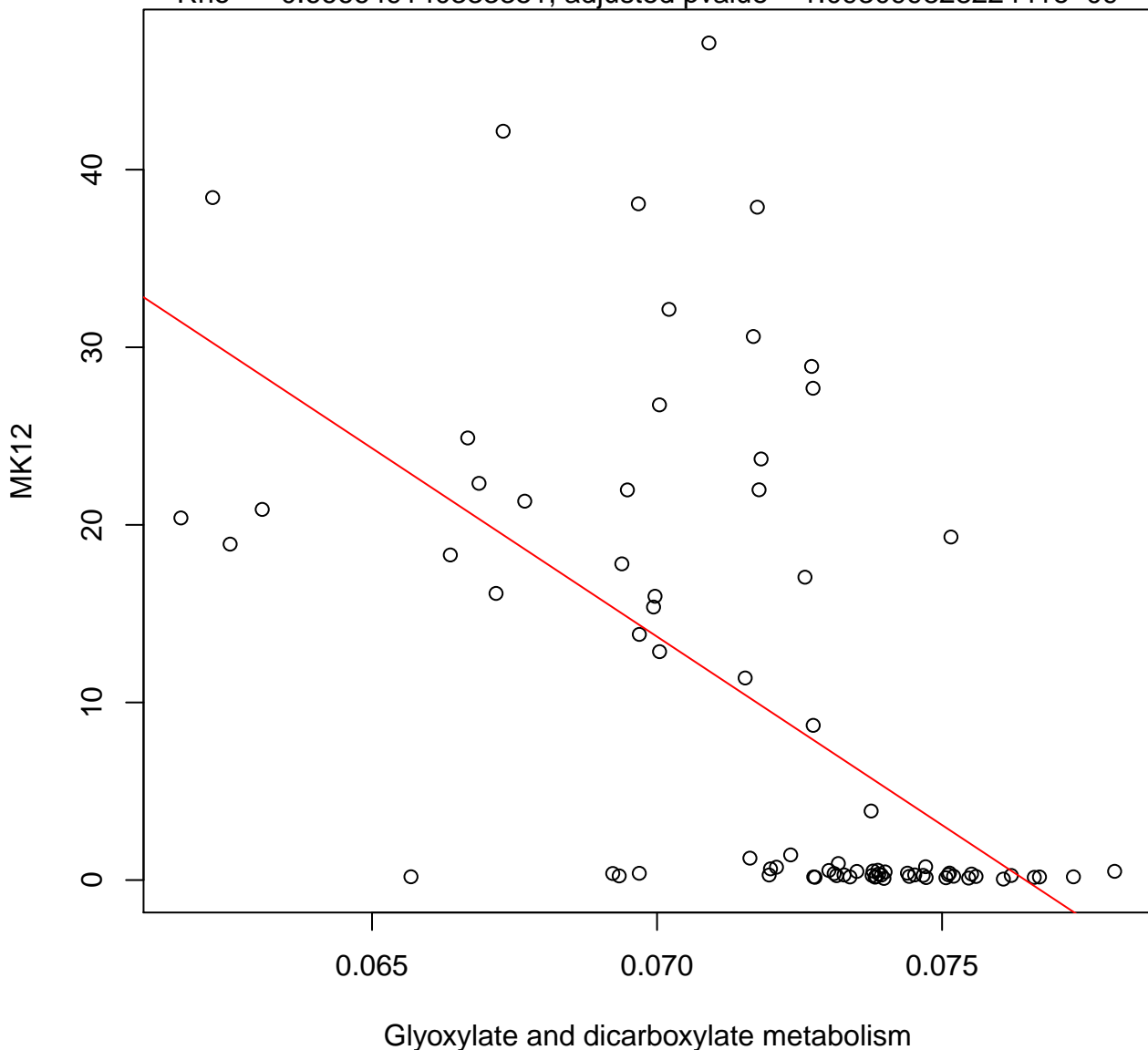
Timepoint 2 , MK12 ~ Glycosphingolipid biosynthesis – lacto and neolacto s

Rho = -0.489195015510805 , adjusted pvalue = $2.08959204031697e-05$



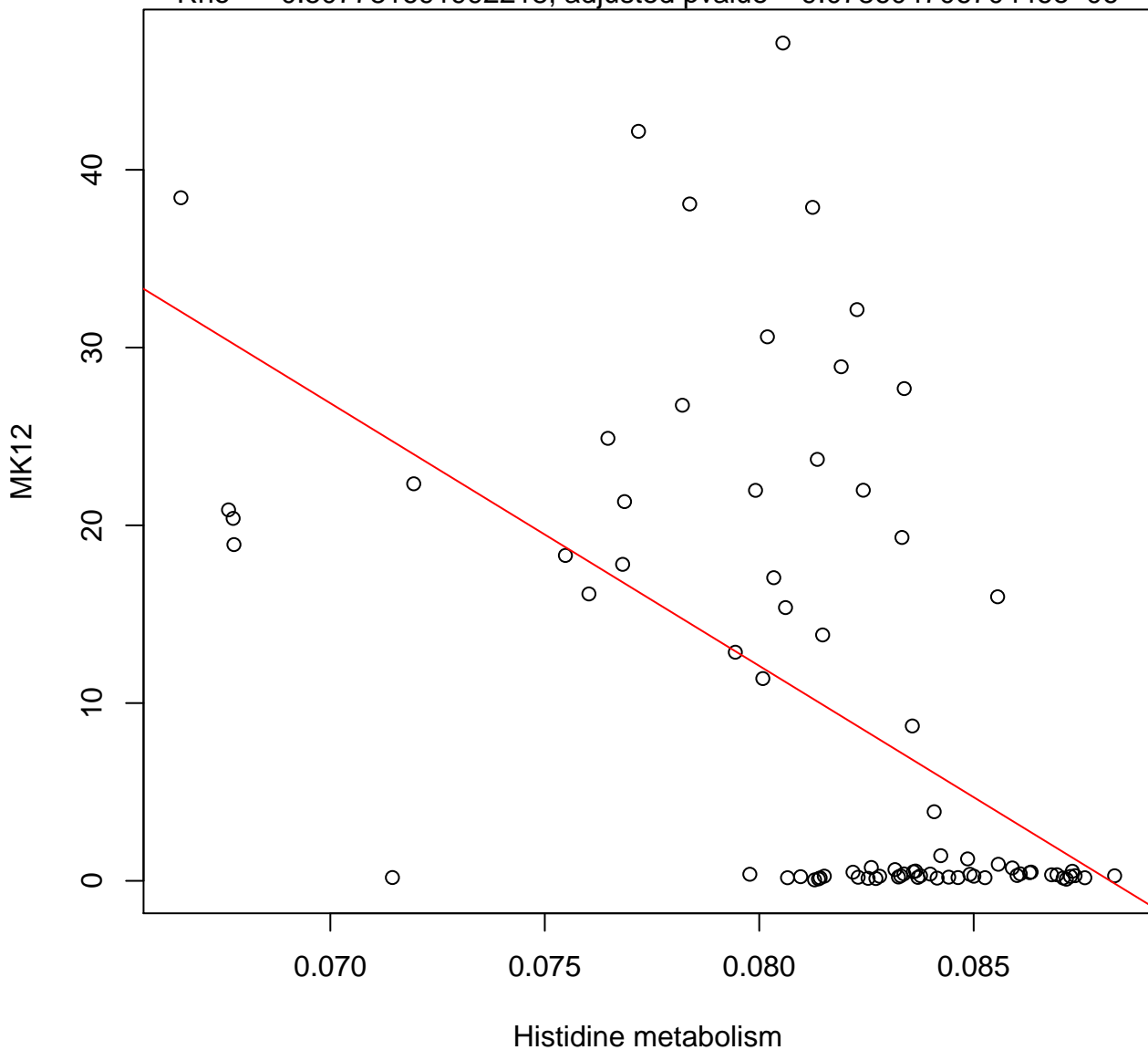
Timepoint 2 , MK12 ~ Glyoxylate and dicarboxylate metabolism

Rho = -0.666649140333351 , adjusted pvalue = $1.09309982822441e-09$



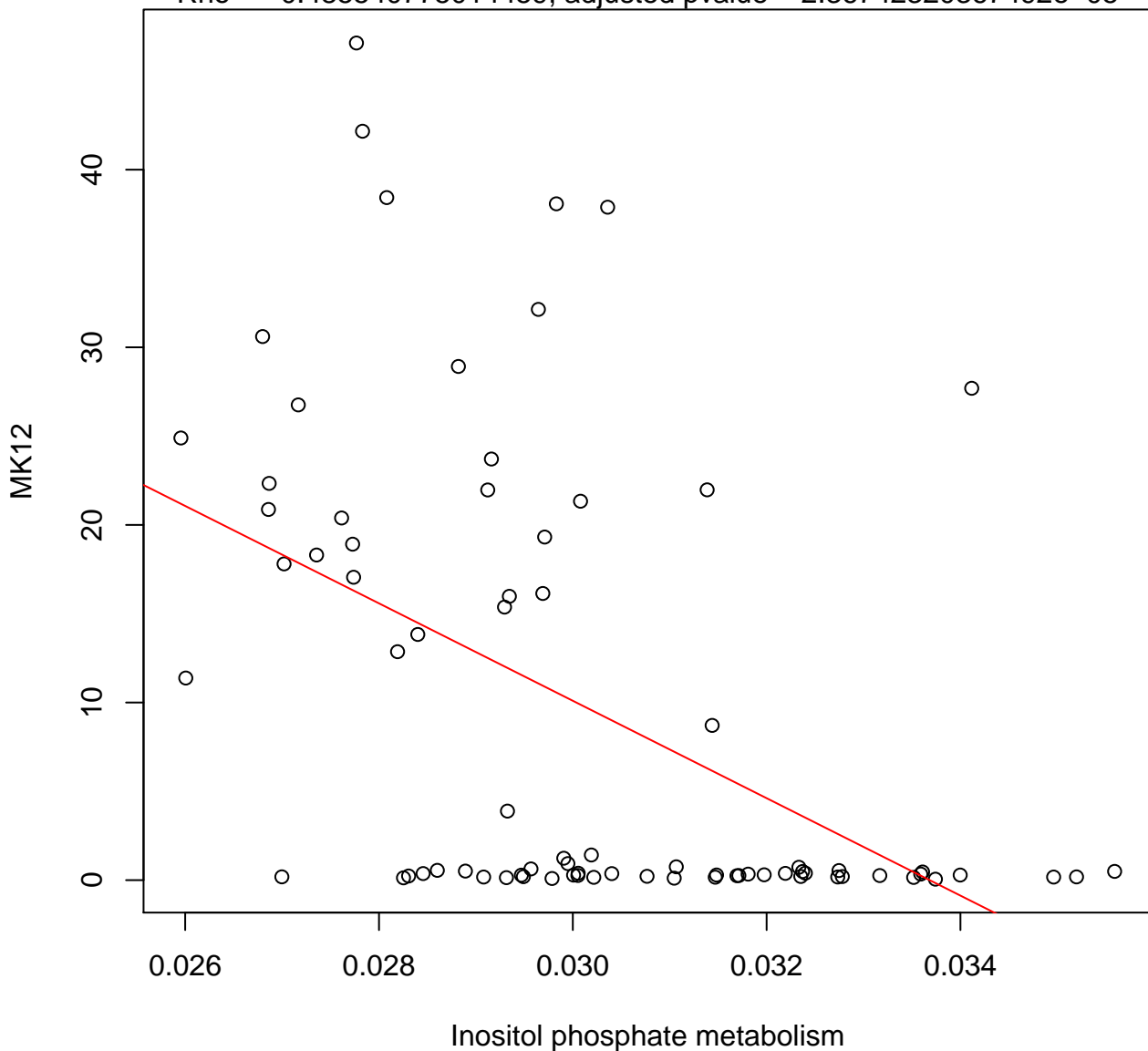
Timepoint 2 , MK12 ~ Histidine metabolism

Rho = -0.507781691992218 , adjusted pvalue = $9.07860470670446e-06$



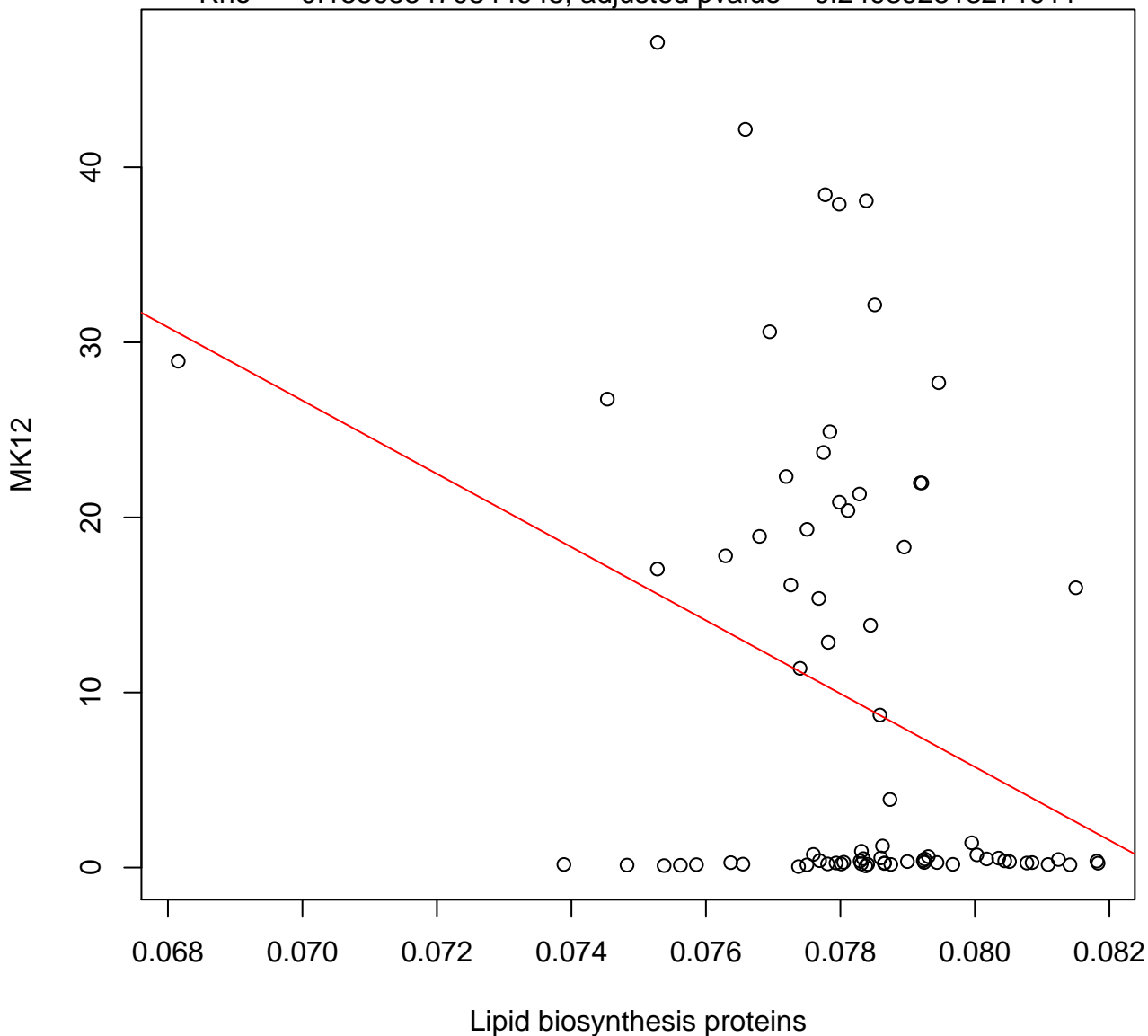
Timepoint 2 , MK12 ~ Inositol phosphate metabolism

Rho = -0.485540775014459 , adjusted pvalue = $2.36742320367492e-05$



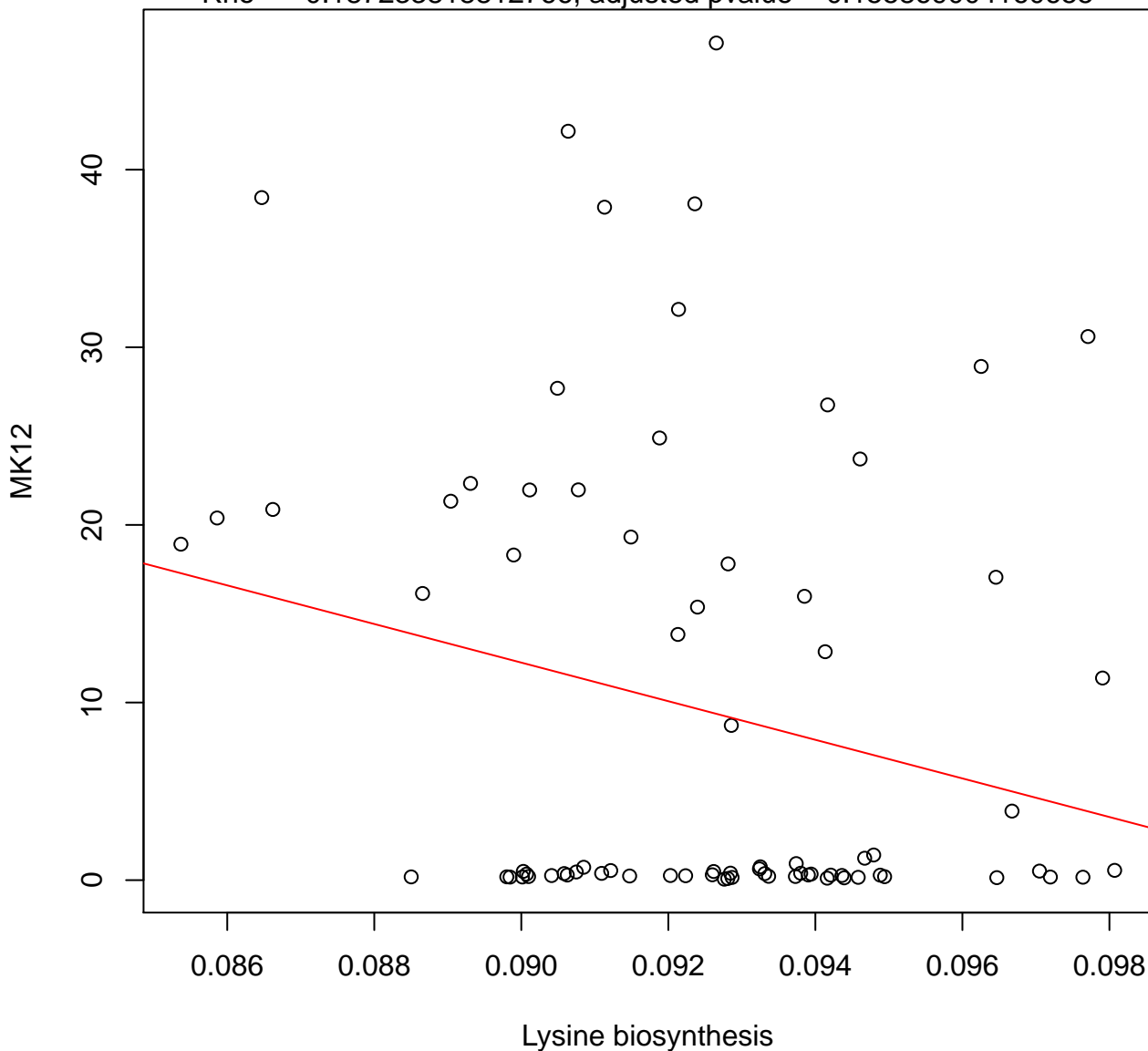
Timepoint 2 , MK12 ~ Lipid biosynthesis proteins

Rho = -0.155055470844945 , adjusted pvalue = 0.249392813271911



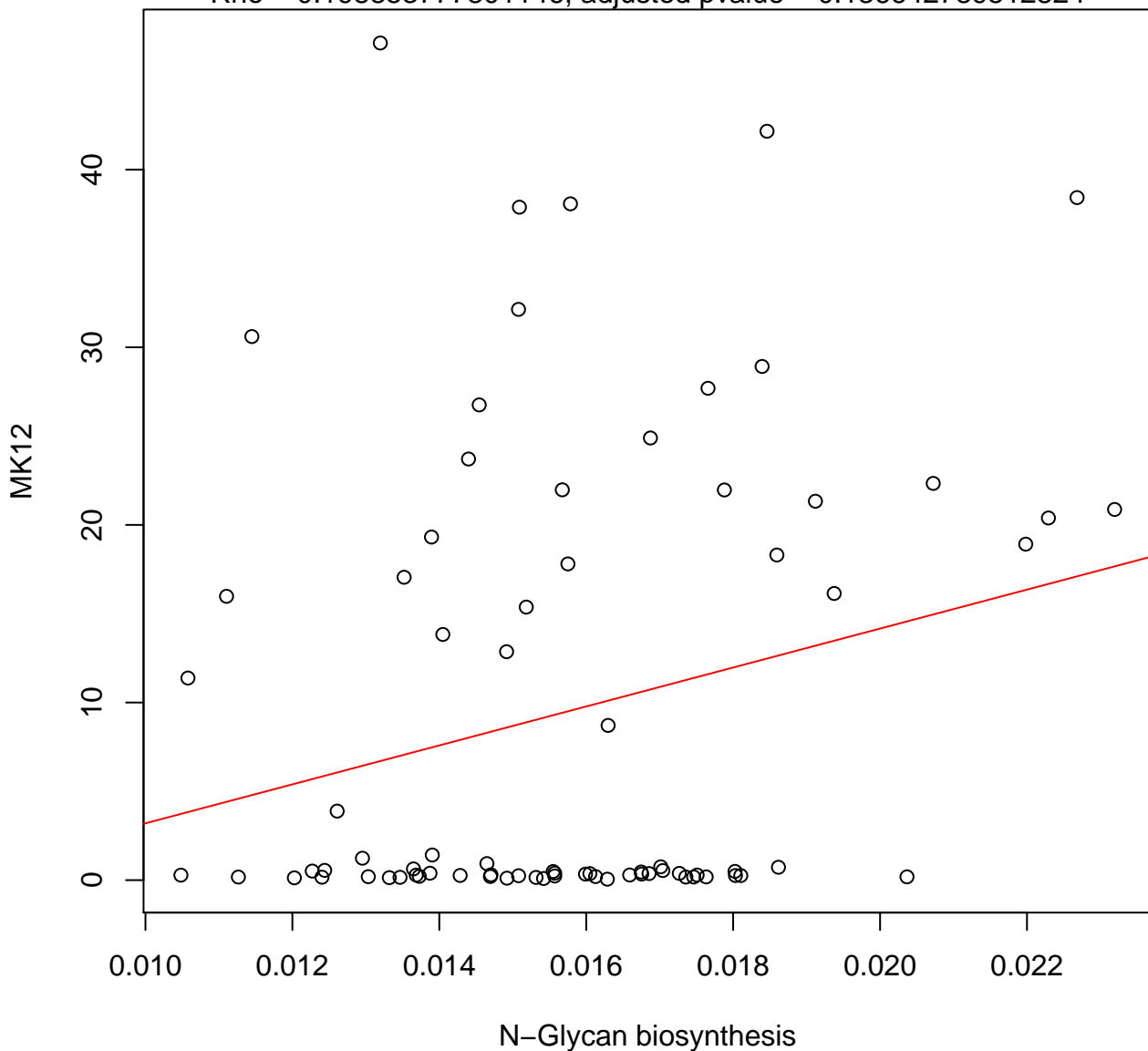
Timepoint 2 , MK12 ~ Lysine biosynthesis

Rho = -0.187233818812766 , adjusted pvalue = 0.155869004160655



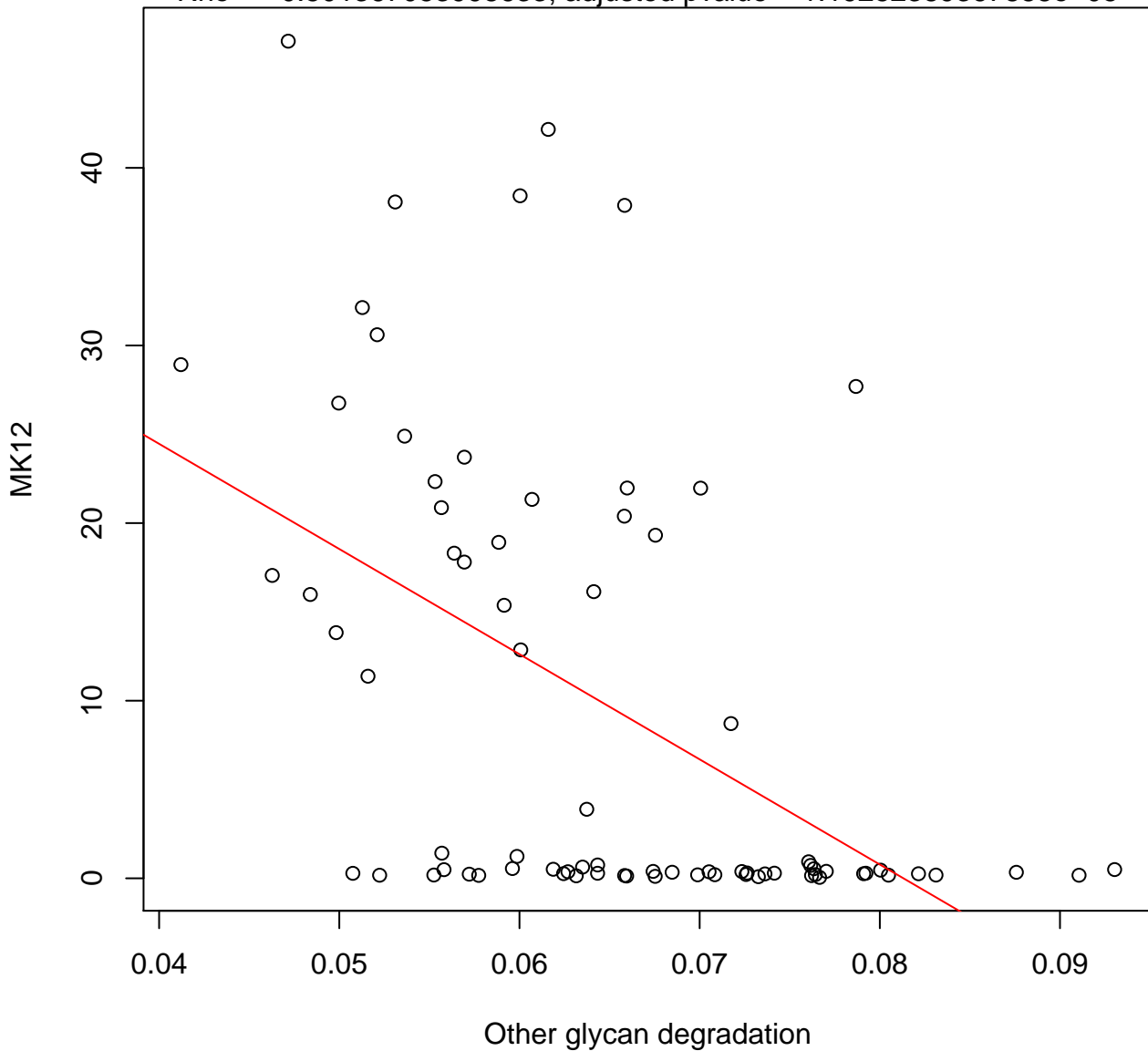
Timepoint 2 , MK12 ~ N-Glycan biosynthesis

Rho = 0.198853777801146, adjusted pvalue = 0.136642789512824



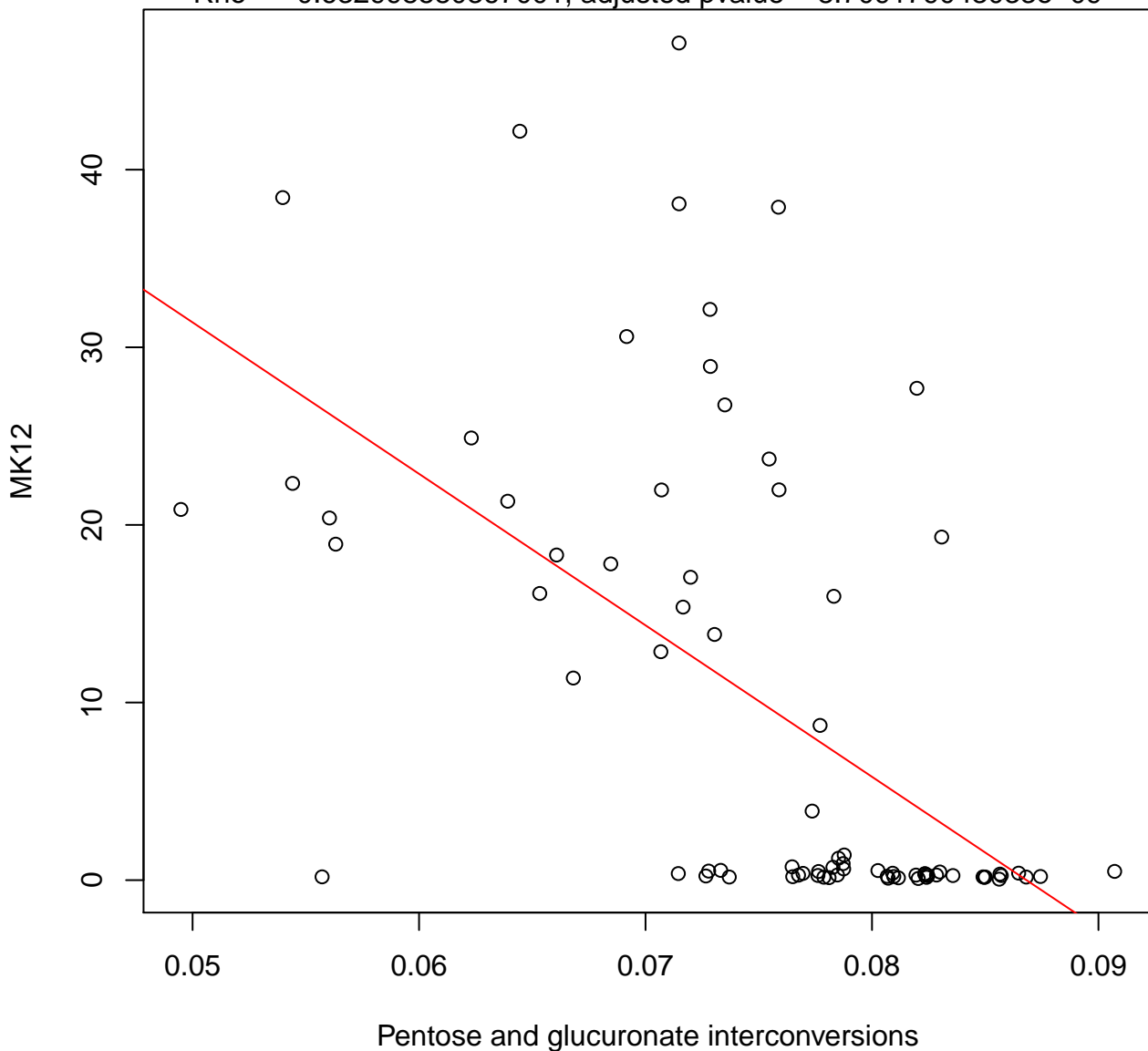
Timepoint 2 , MK12 ~ Other glycan degradation

Rho = -0.501367053998633, adjusted pvalue = 1.19252389367888e-05



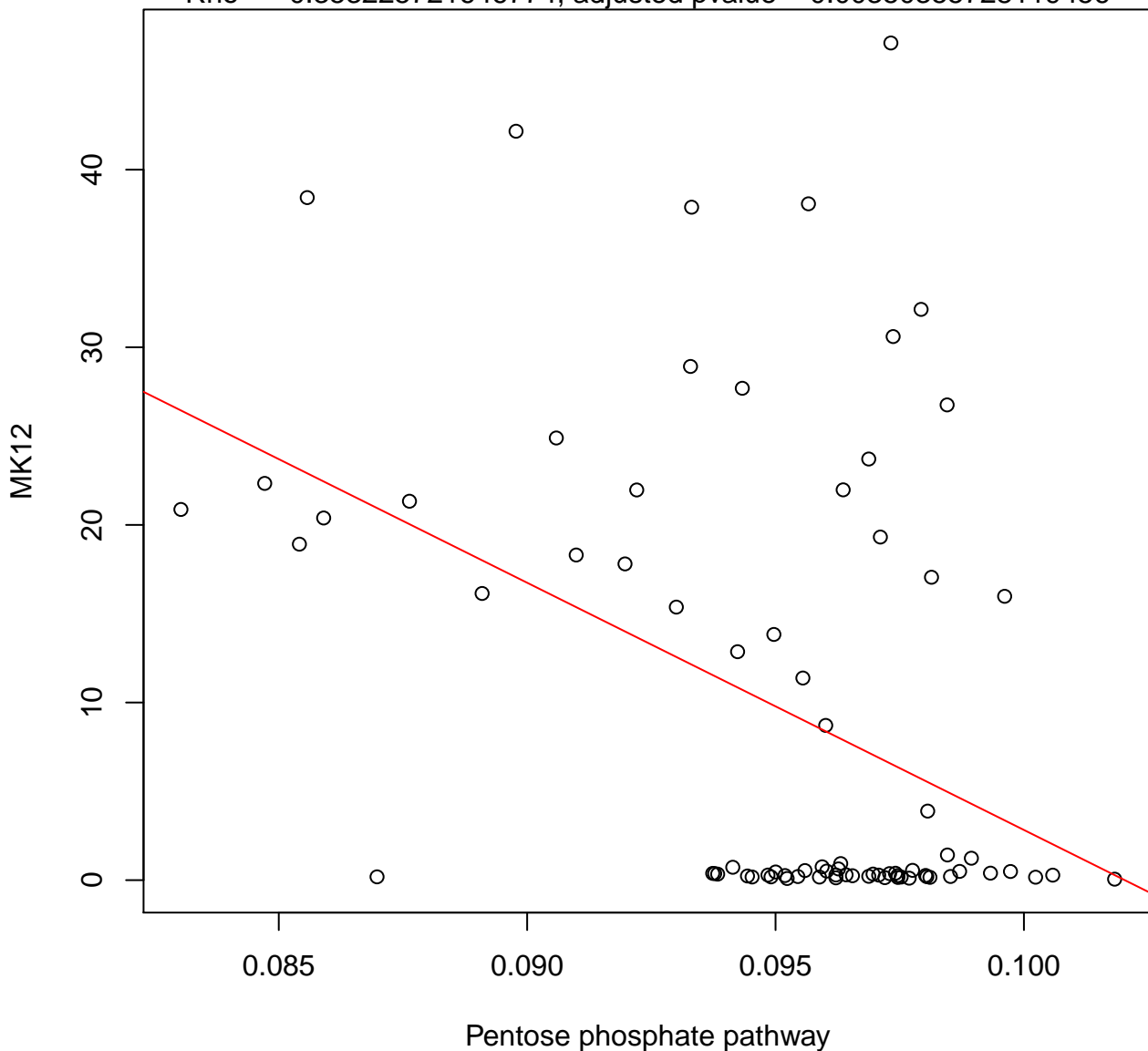
Timepoint 2 , MK12 ~ Pentose and glucuronate interconversions

Rho = -0.632998580367001, adjusted pvalue = 8.709179043033e-09



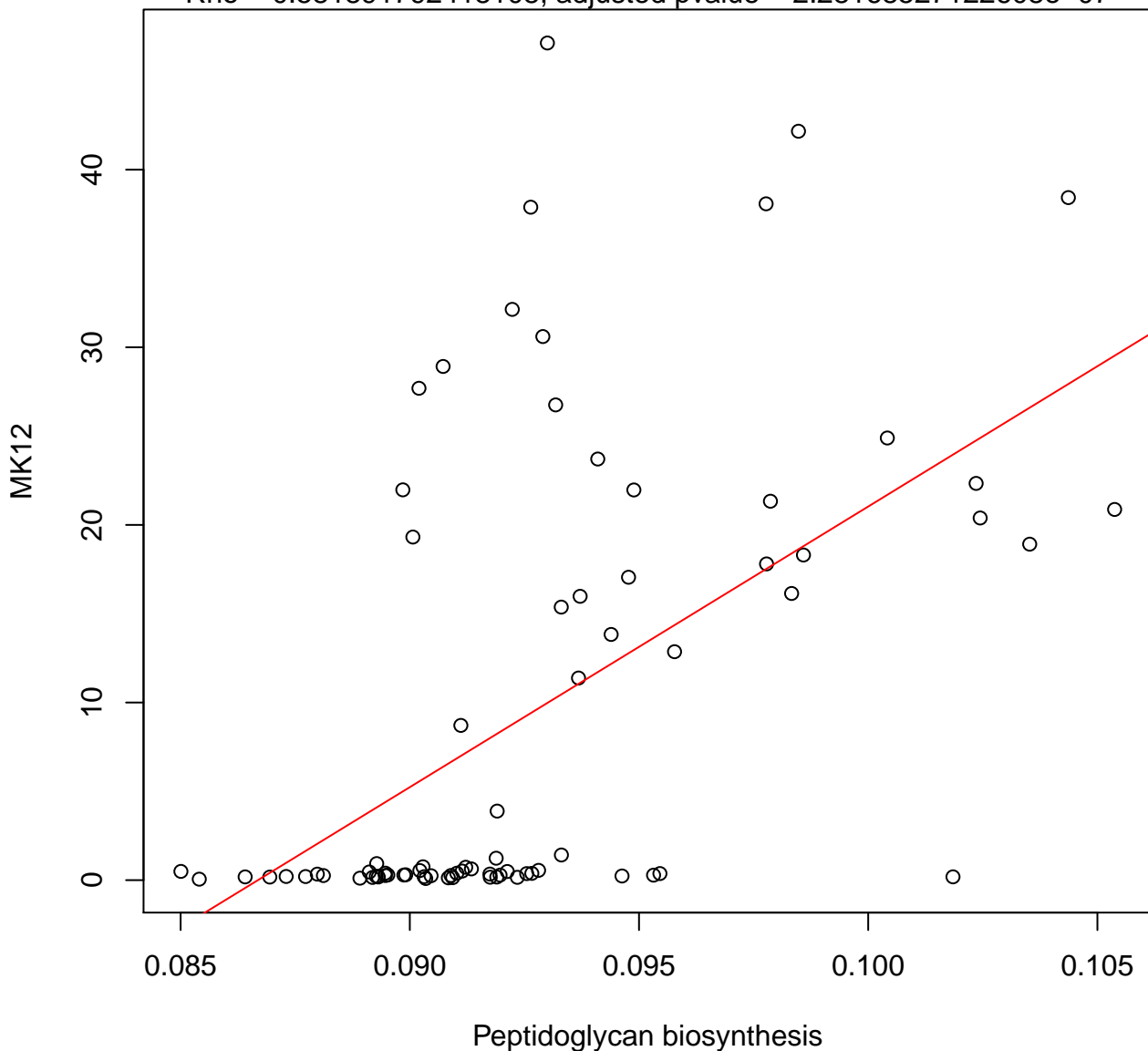
Timepoint 2 , MK12 ~ Pentose phosphate pathway

Rho = -0.353225721646774 , adjusted pvalue = 0.00350355728119456



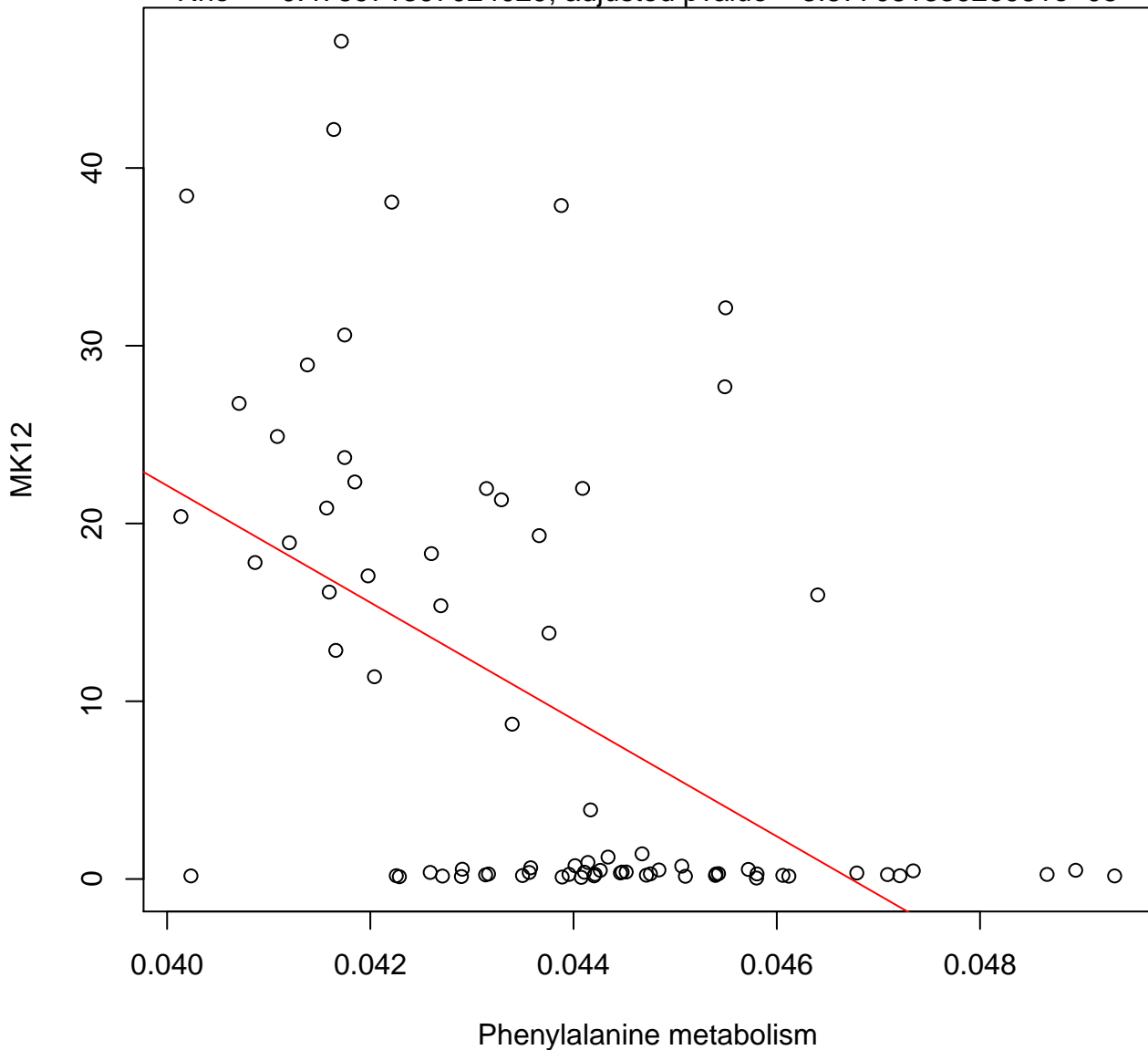
Timepoint 2 , MK12 ~ Peptidoglycan biosynthesis

Rho = 0.581891792418108, adjusted pvalue = 2.28168527122608e-07



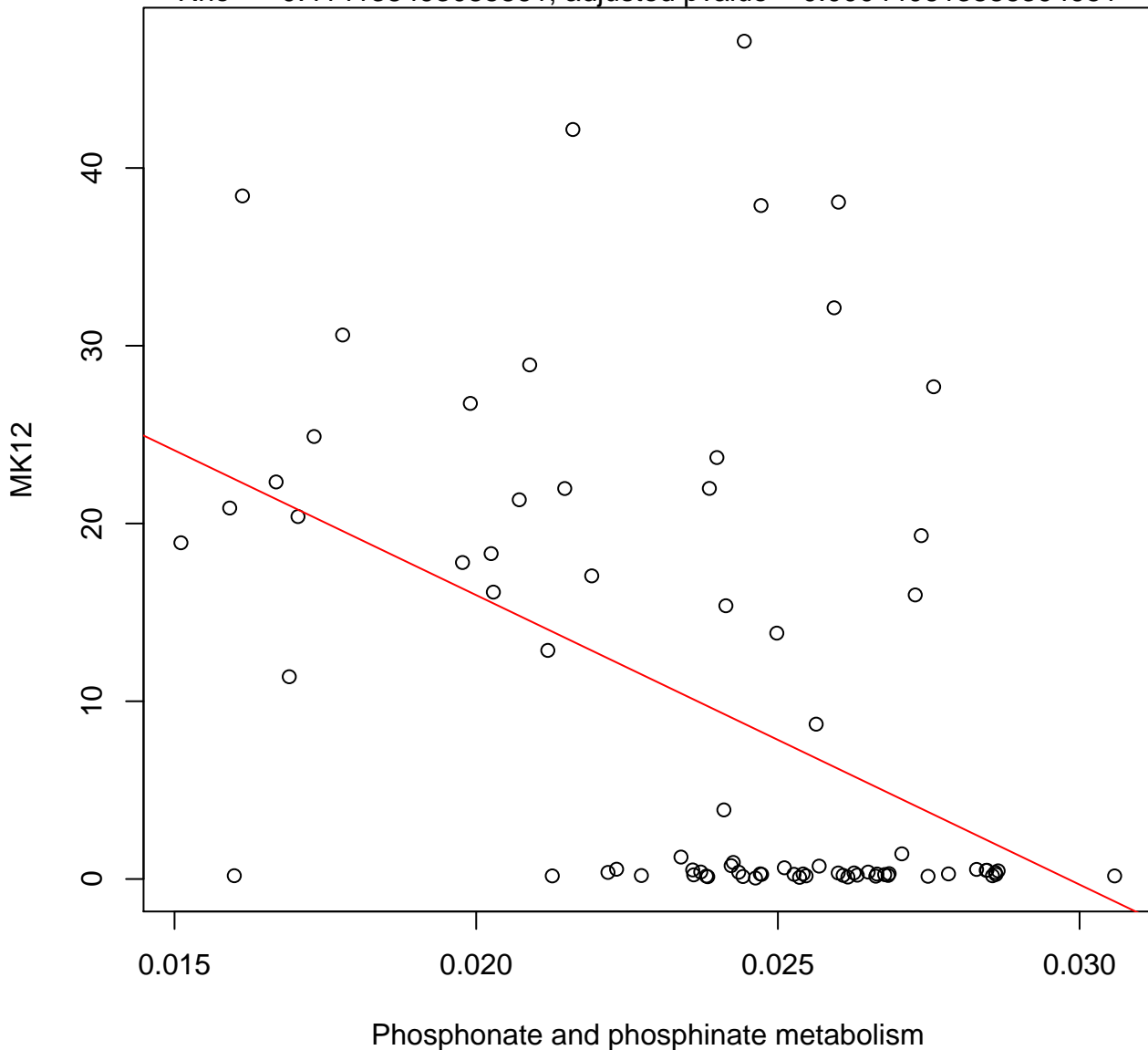
Timepoint 2 , MK12 ~ Phenylalanine metabolism

Rho = -0.475971397024029 , adjusted pvalue = $3.57708133926981e-05$



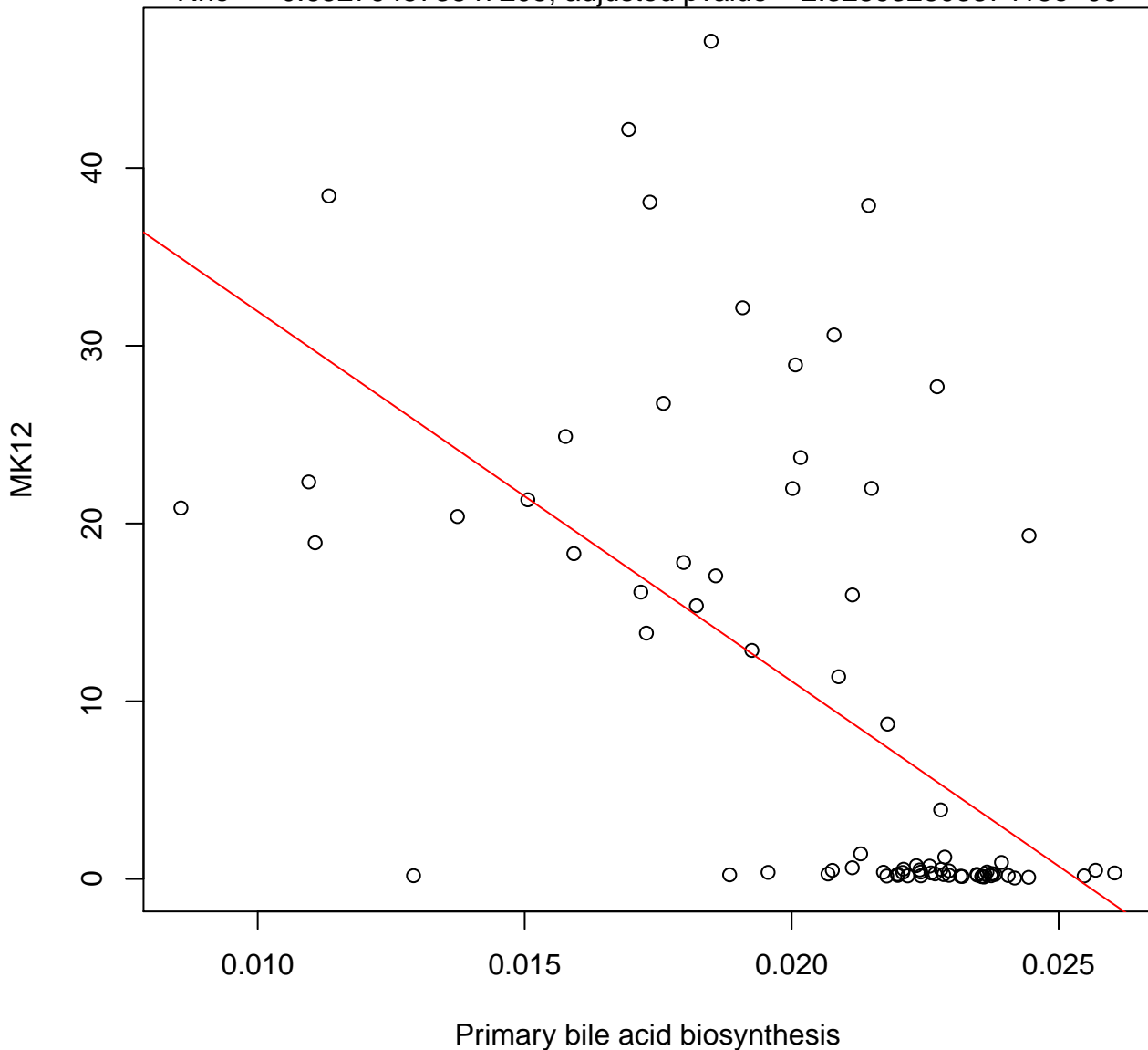
Timepoint 2, MK12 ~ Phosphonate and phosphinate metabolism

Rho = -0.414138493085861, adjusted pvalue = 0.000440613886394951



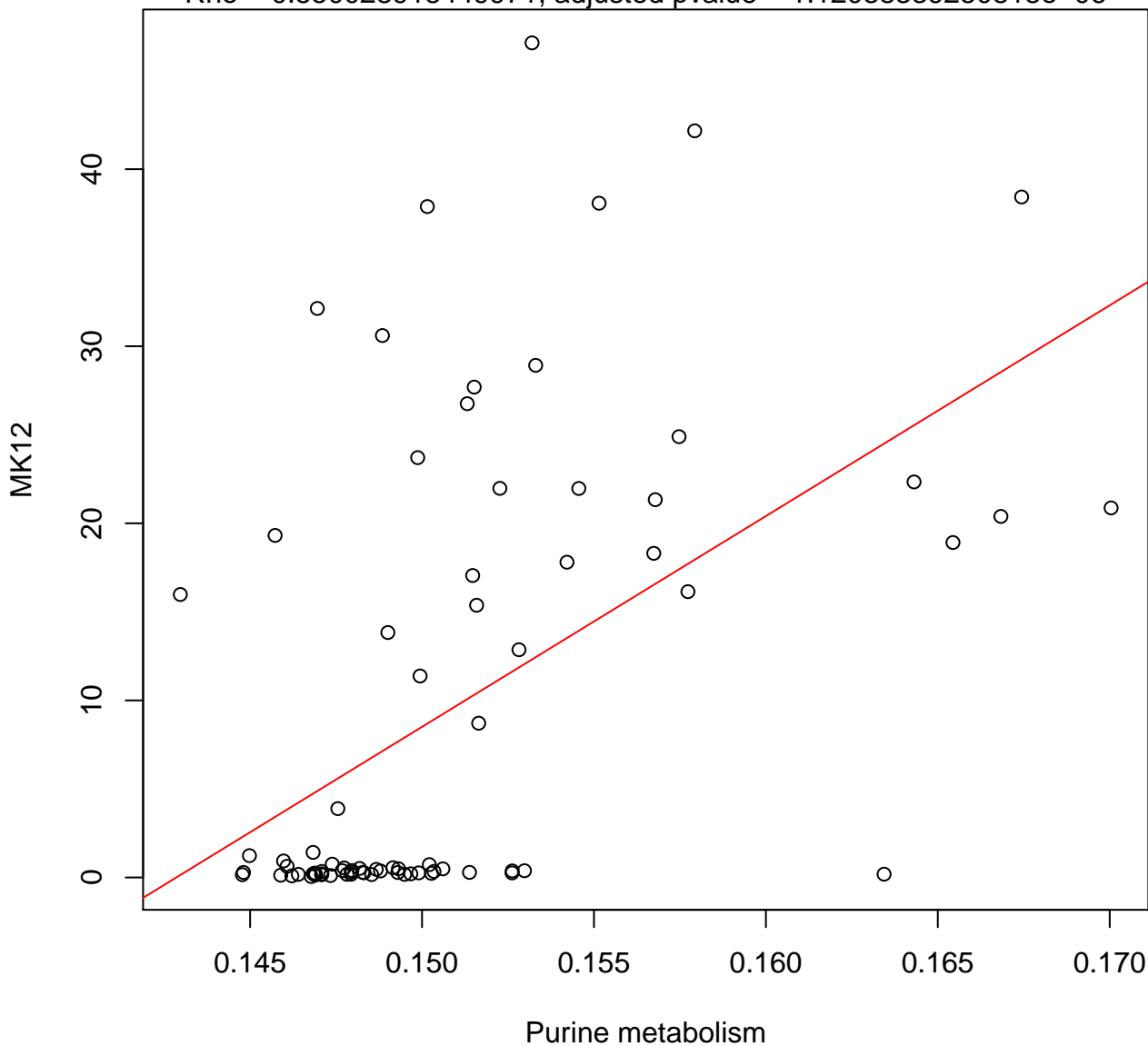
Timepoint 2 , MK12 ~ Primary bile acid biosynthesis

Rho = -0.652794573847205, adjusted pvalue = 2.32893280387418e-09



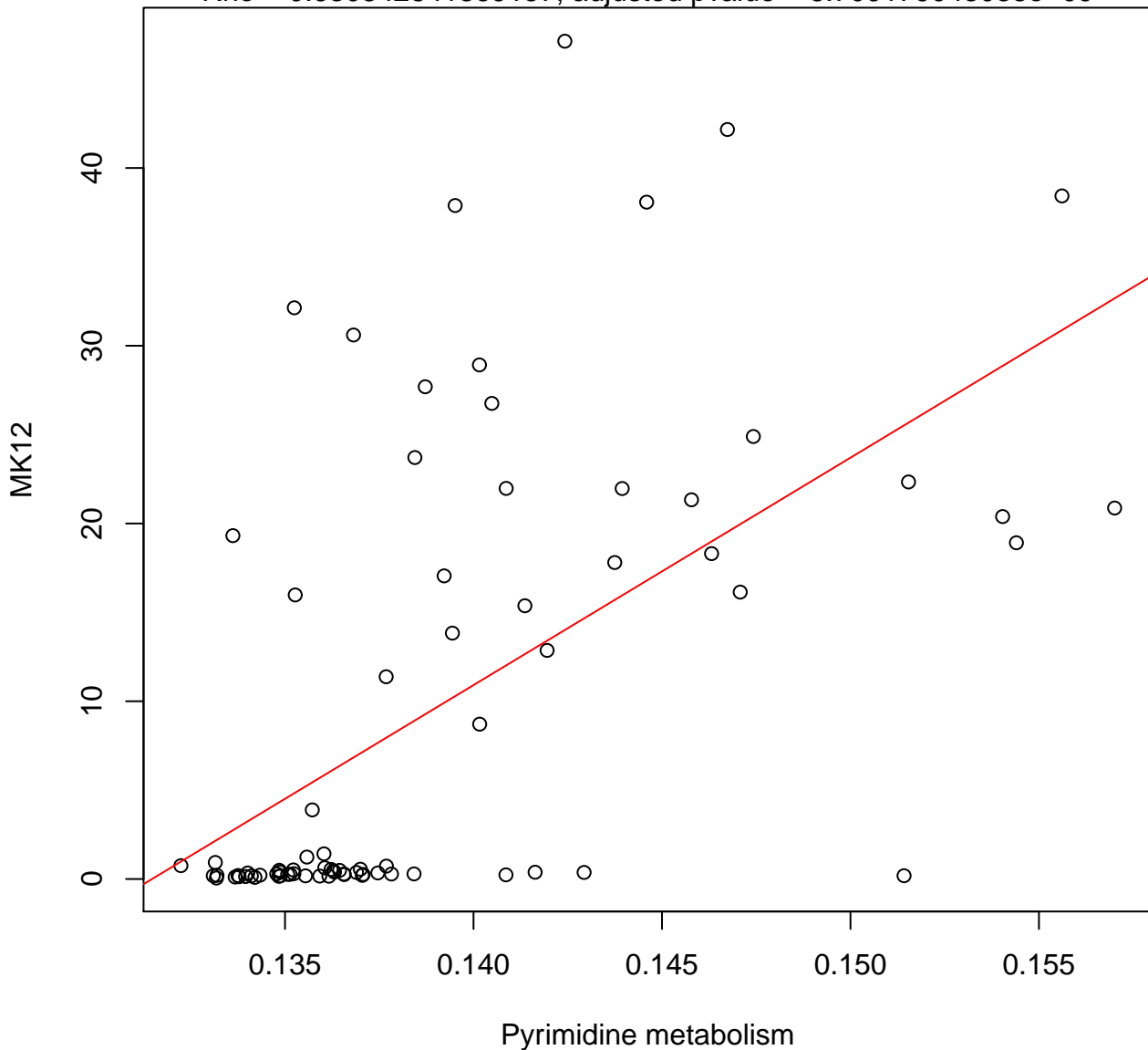
Timepoint 2 , MK12 ~ Purine metabolism

Rho = 0.550028918449971, adjusted pvalue = 1.12038339250818e-06



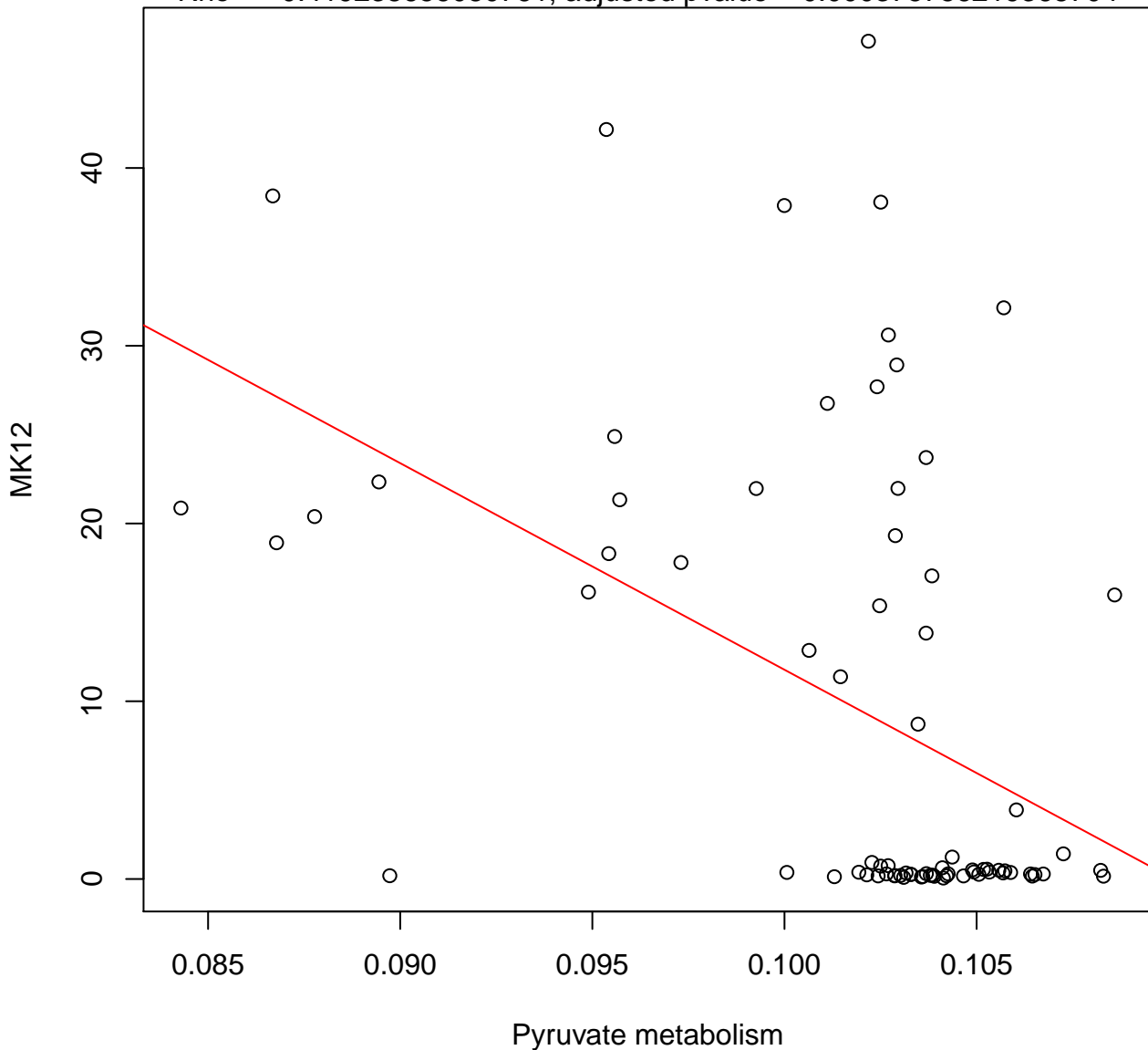
Timepoint 2 , MK12 ~ Pyrimidine metabolism

Rho = 0.630842841369157, adjusted pvalue = 8.709179043033e-09



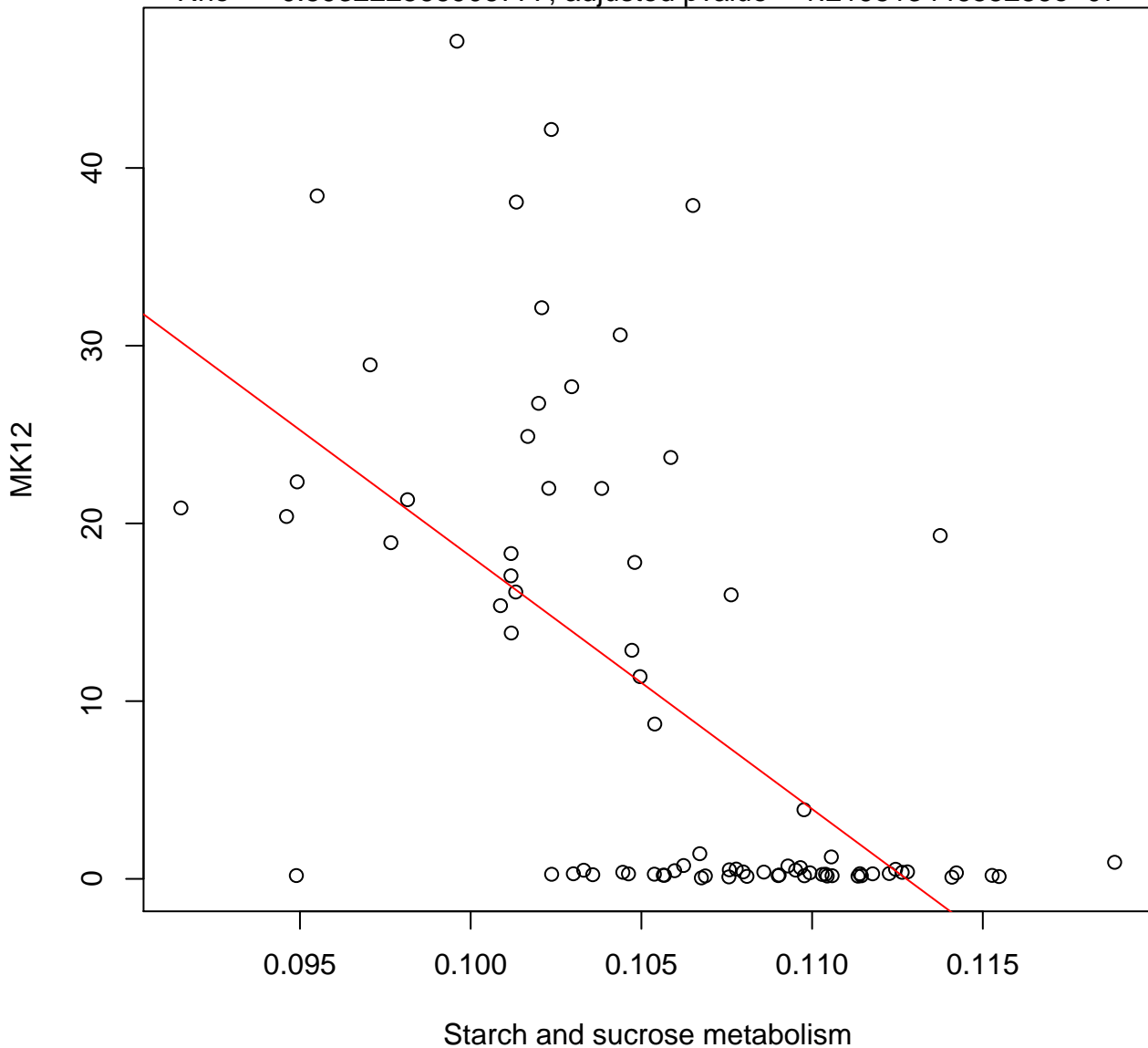
Timepoint 2 , MK12 ~ Pyruvate metabolism

Rho = -0.419238656080761, adjusted pvalue = 0.000375756219368704



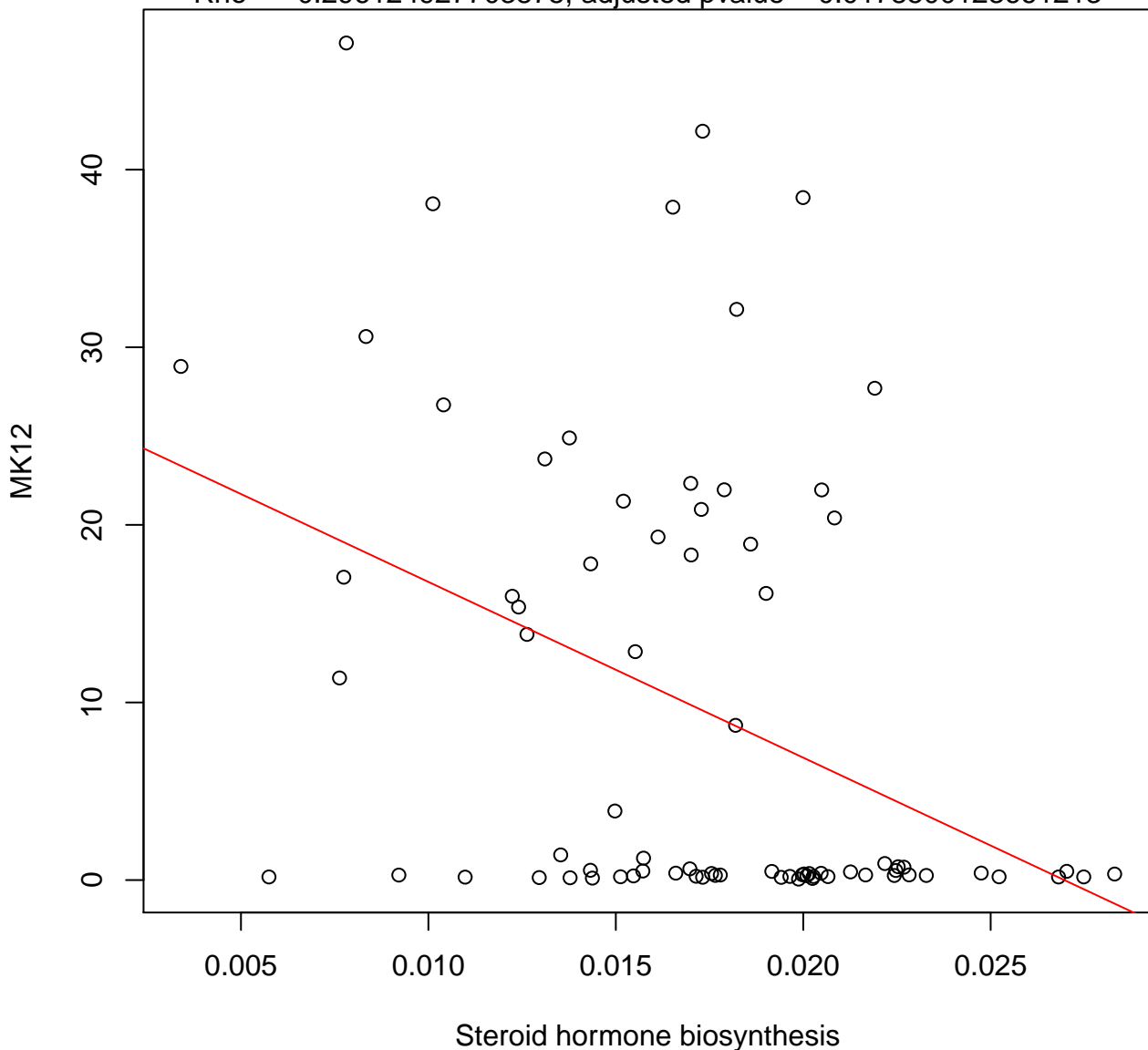
Timepoint 2, MK12 ~ Starch and sucrose metabolism

Rho = -0.593222566906777, adjusted pvalue = 1.21951344655286e-07



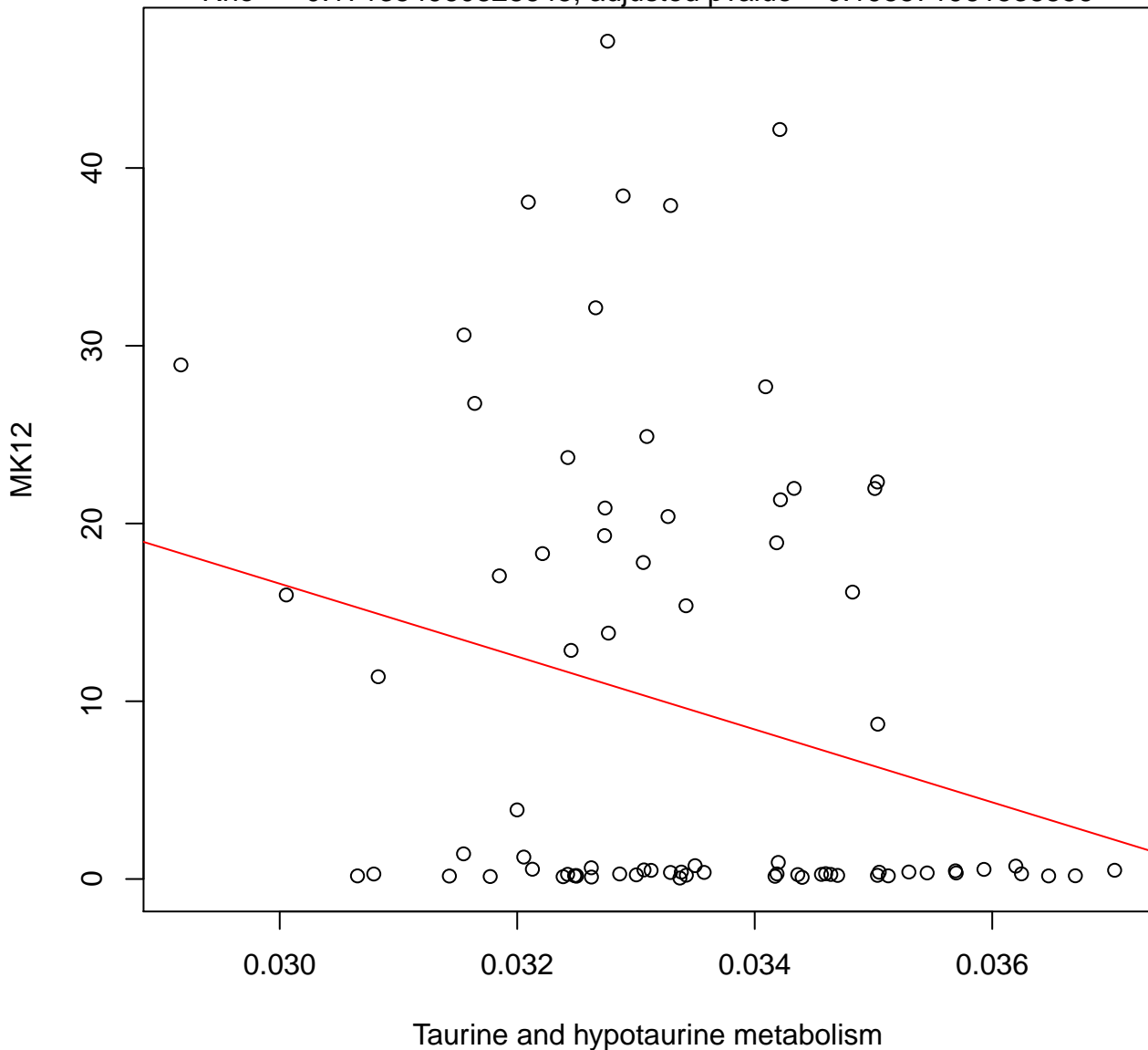
Timepoint 2 , MK12 ~ Steroid hormone biosynthesis

Rho = -0.296124927703875 , adjusted pvalue = 0.0178500123661213



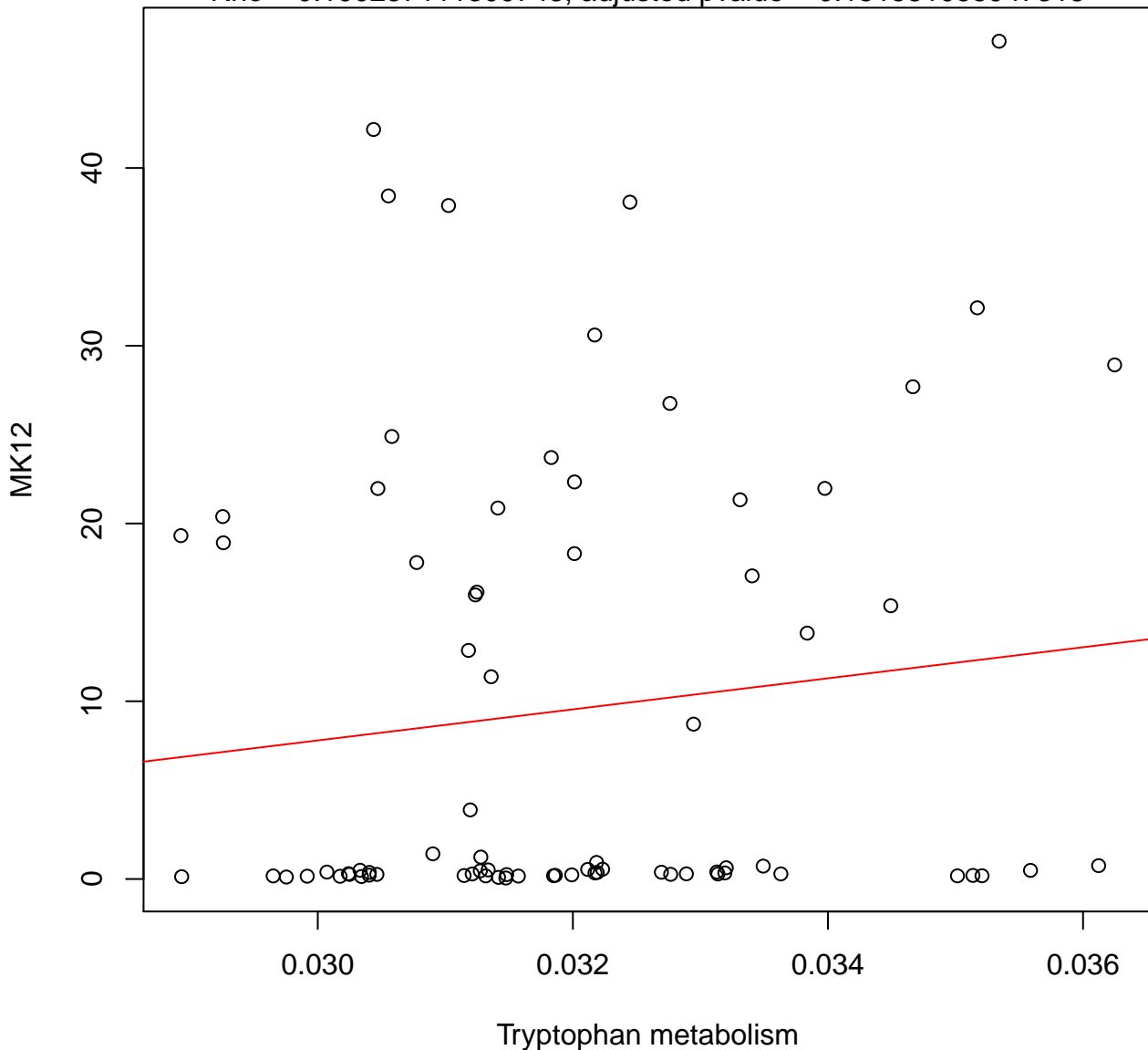
Timepoint 2 , MK12 ~ Taurine and hypotaurine metabolism

Rho = -0.171354960828645 , adjusted pvalue = 0.195571961538856



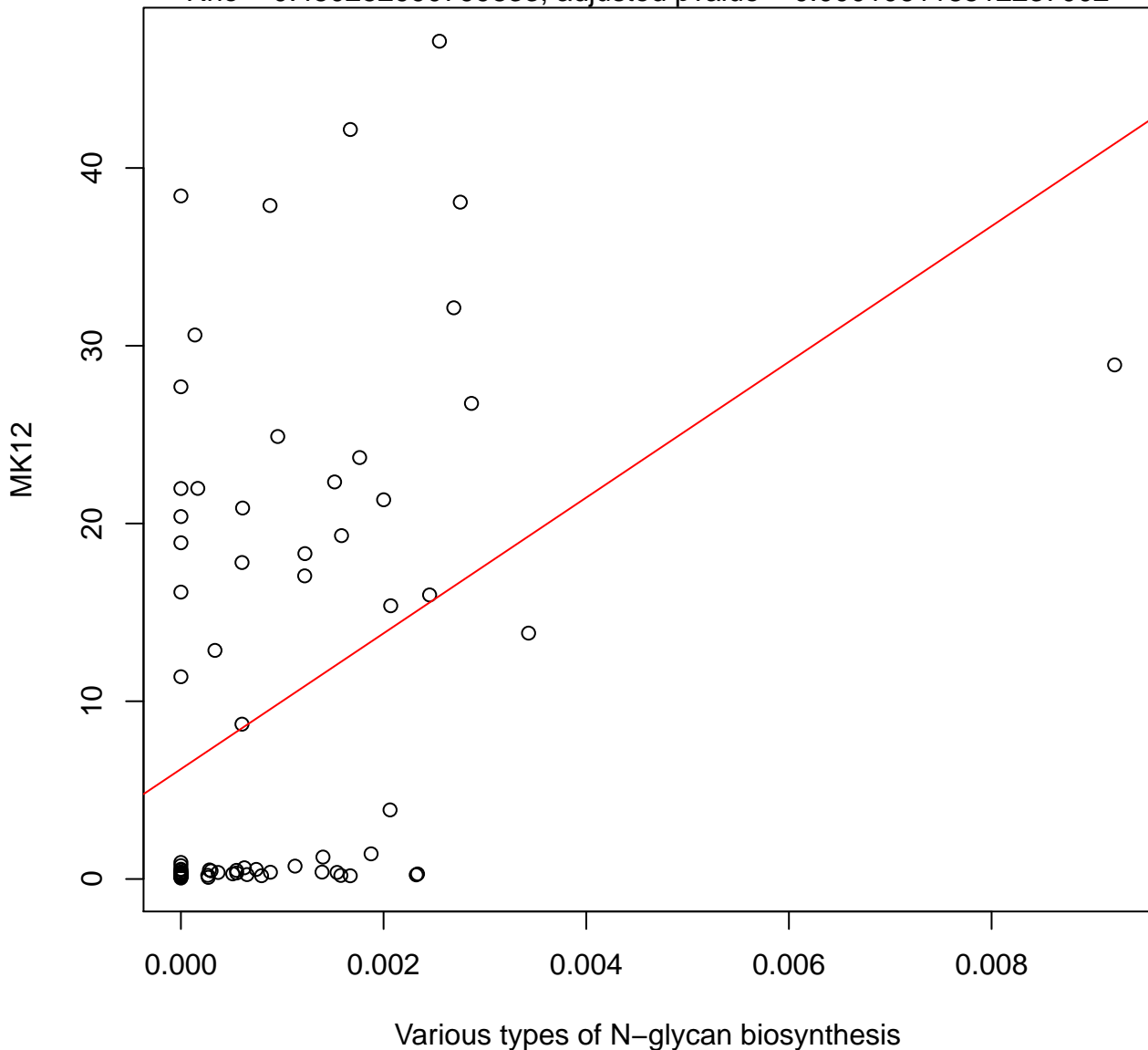
Timepoint 2, MK12 ~ Tryptophan metabolism

Rho = 0.190257111309743, adjusted pvalue = 0.151581055947318



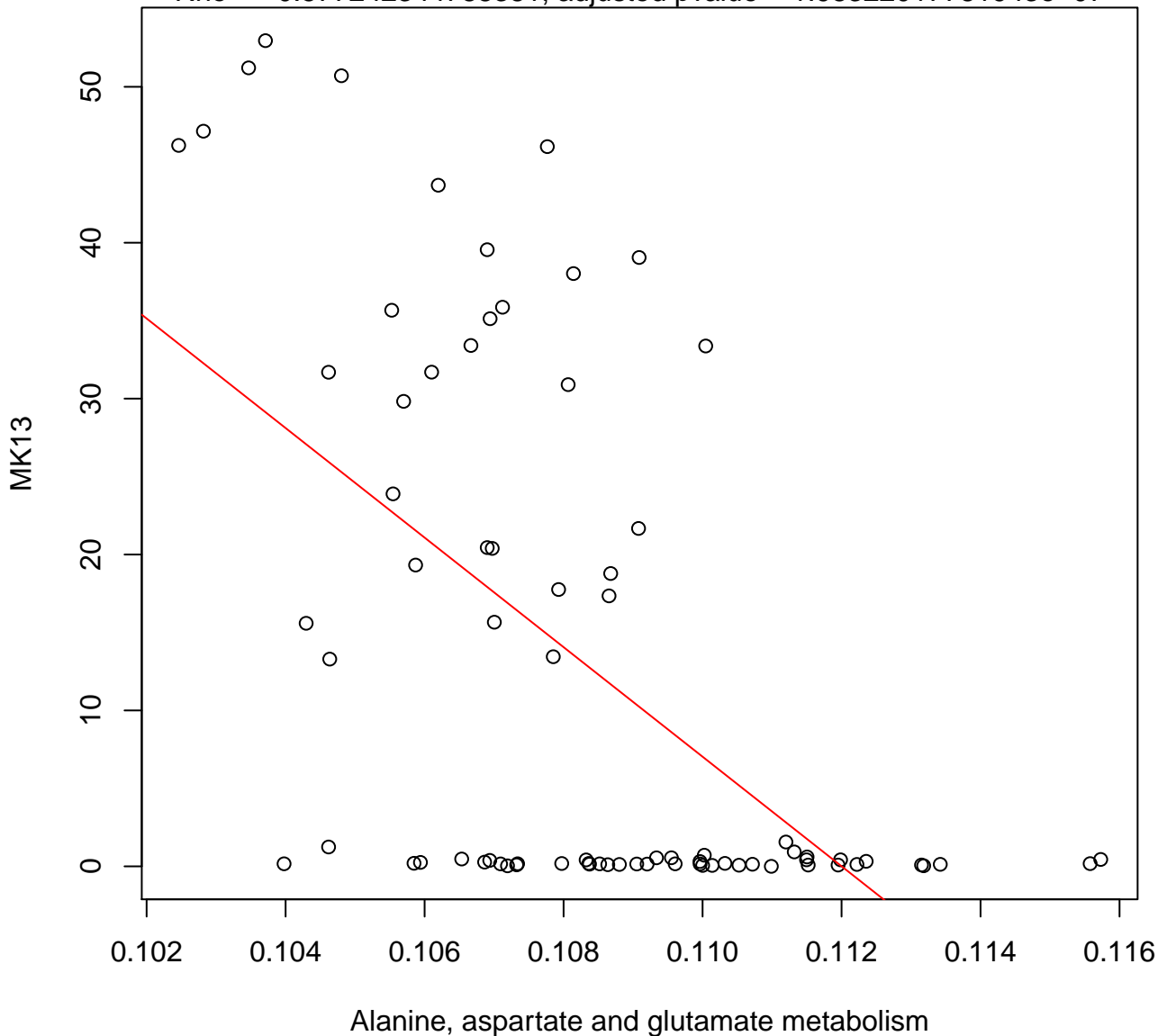
Timepoint 2 , MK12 ~ Various types of N-glycan biosynthesis

Rho = 0.450252990799833, adjusted pvalue = 0.000106118512237002



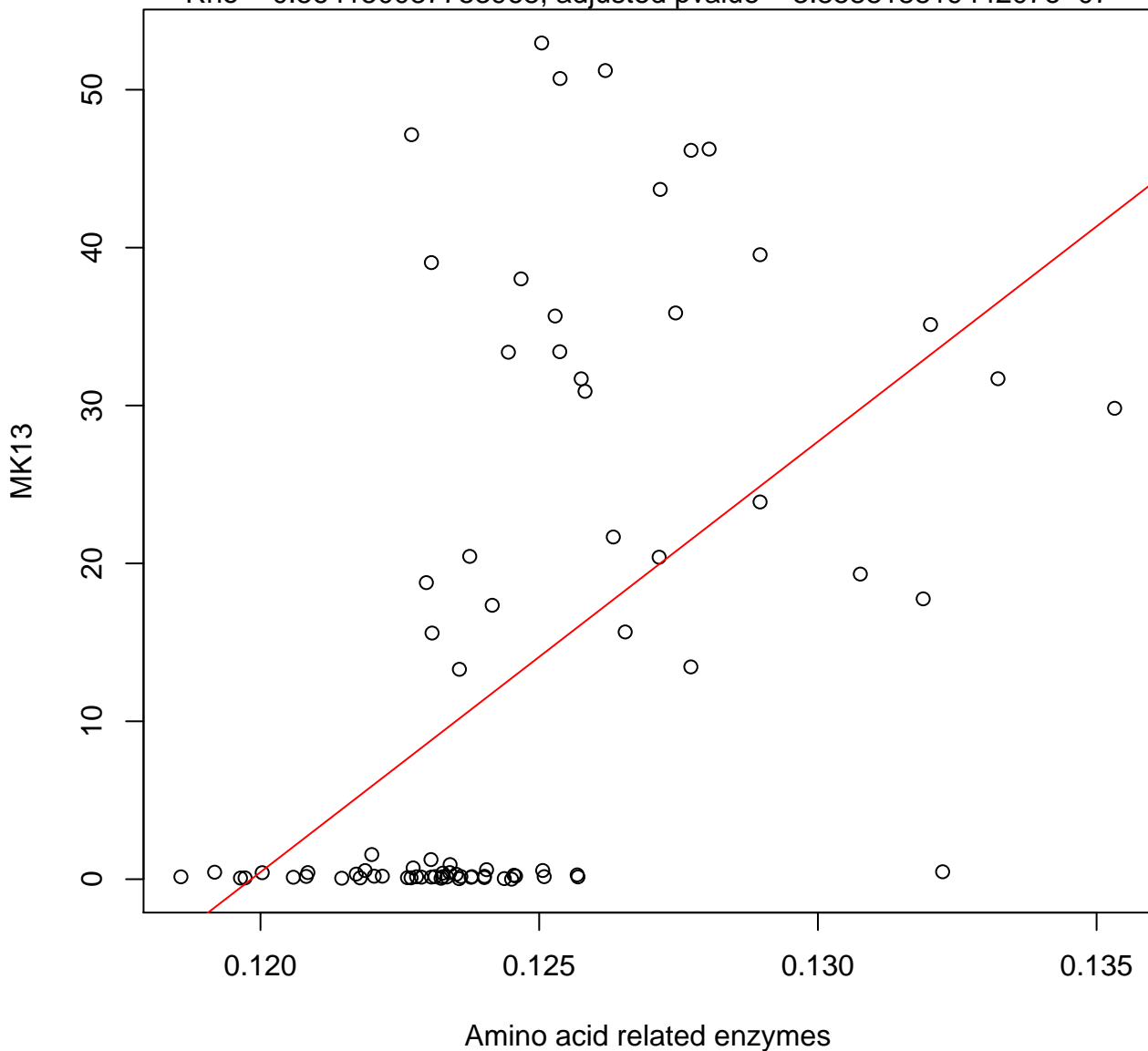
Timepoint 2 , MK13 ~ Alanine, aspartate and glutamate metabolism

Rho = -0.577242344788381 , adjusted pvalue = $1.98322017781943e-07$



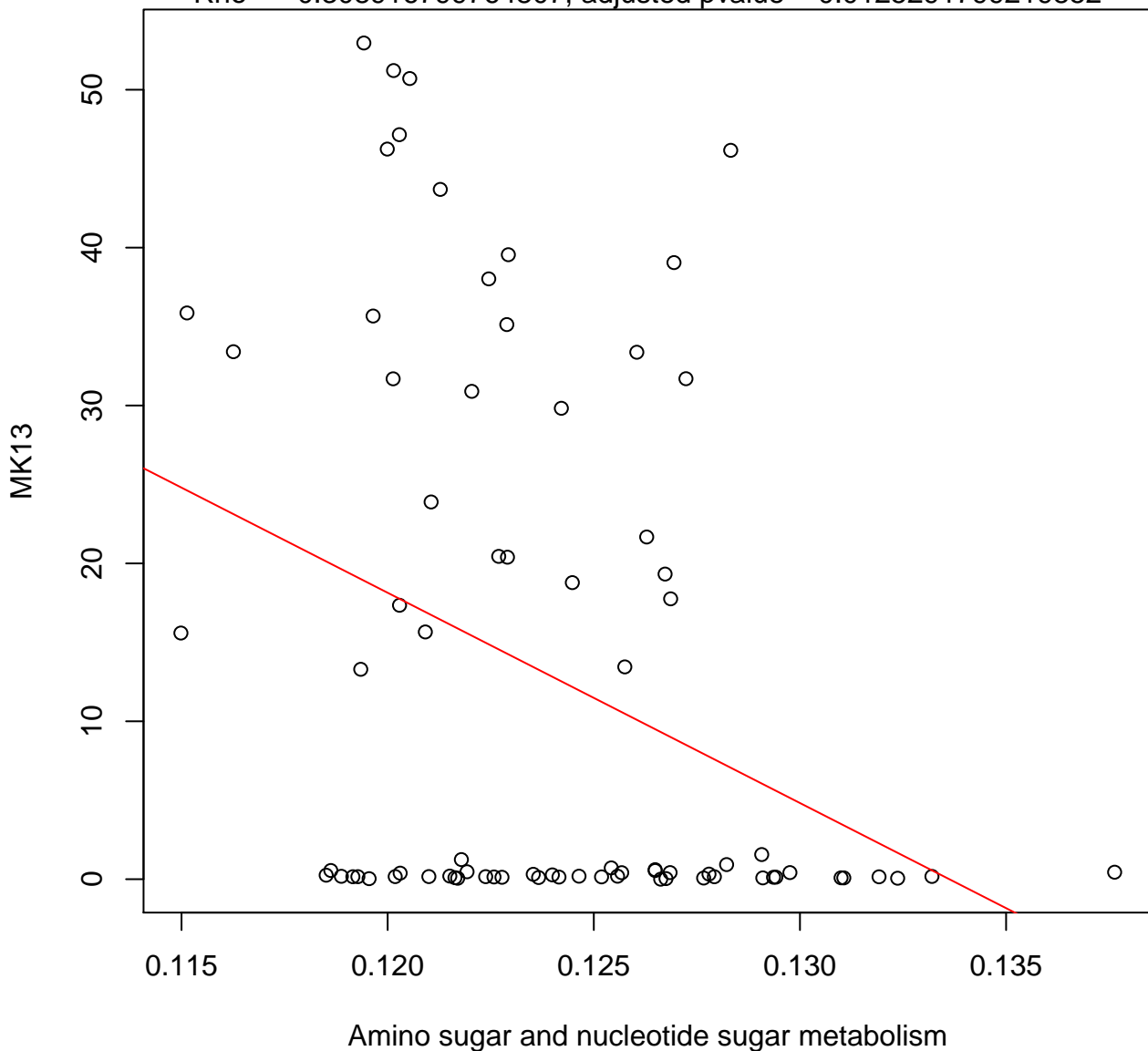
Timepoint 2 , MK13 ~ Amino acid related enzymes

Rho = 0.564150087753968, adjusted pvalue = 3.85881881944207e-07



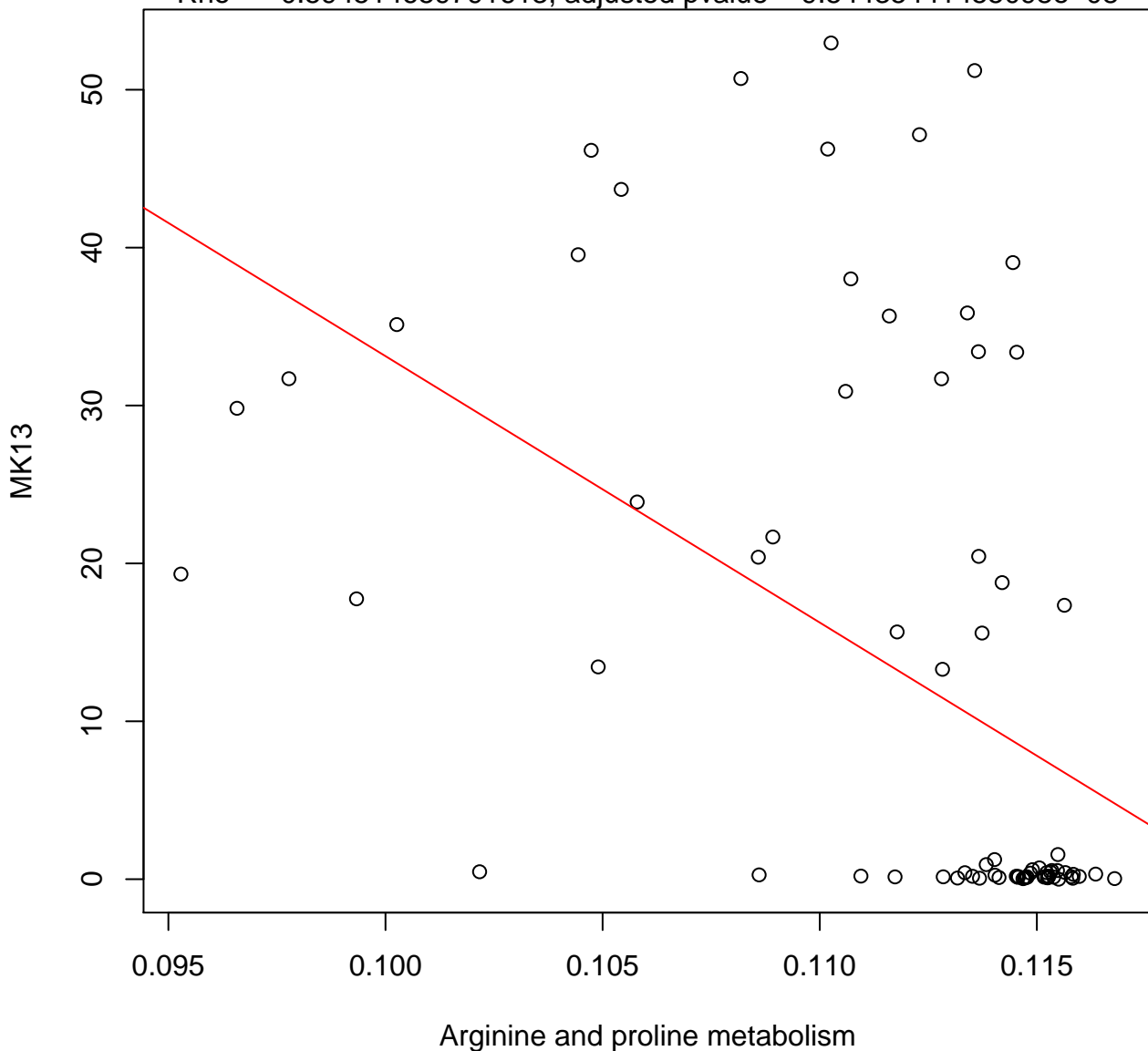
Timepoint 2 , MK13 ~ Amino sugar and nucleotide sugar metabolism

Rho = -0.308916799764807 , adjusted pvalue = 0.0125291799219852



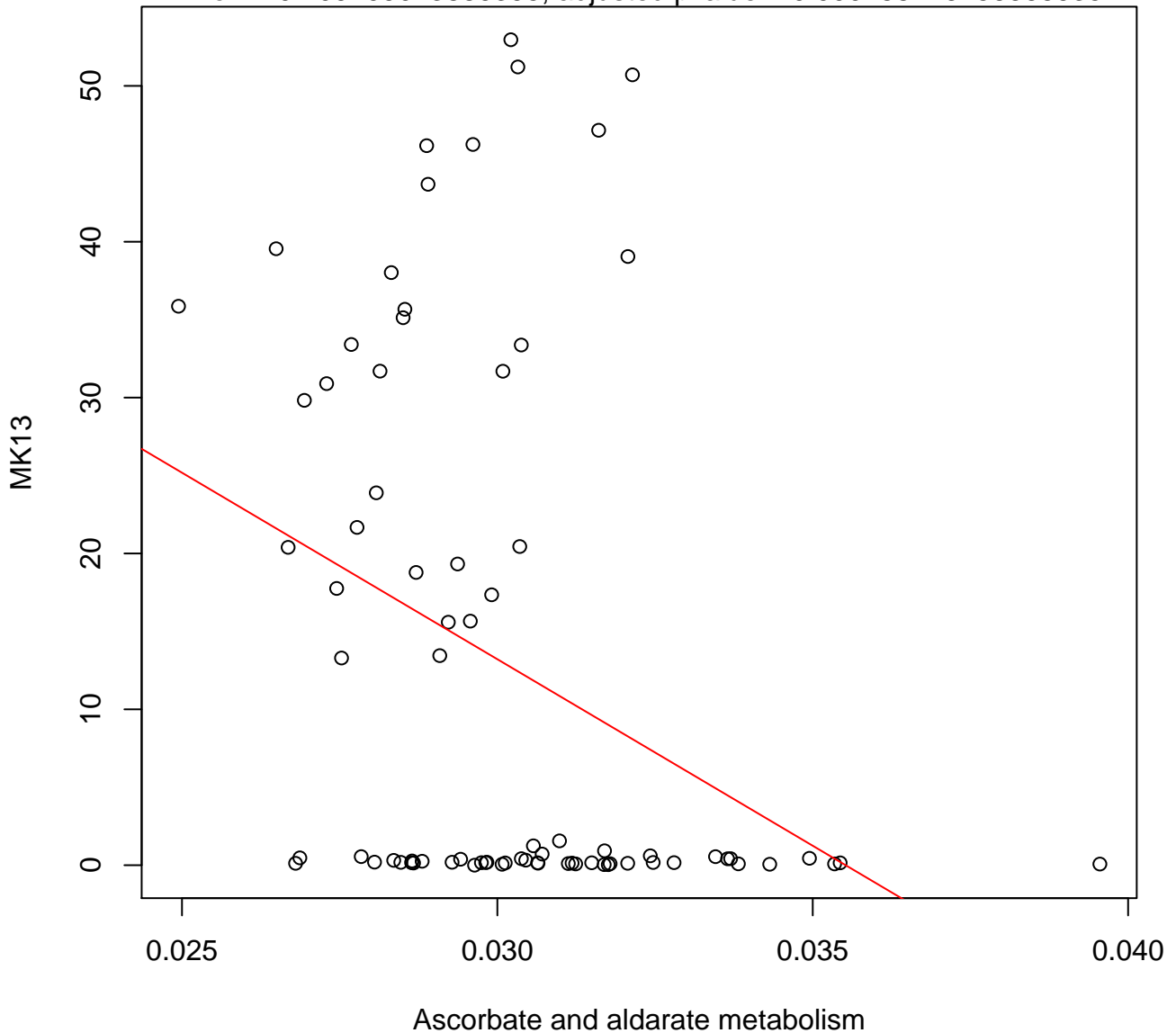
Timepoint 2 , MK13 ~ Arginine and proline metabolism

Rho = -0.594514659791613 , adjusted pvalue = $9.54435441455098e-08$



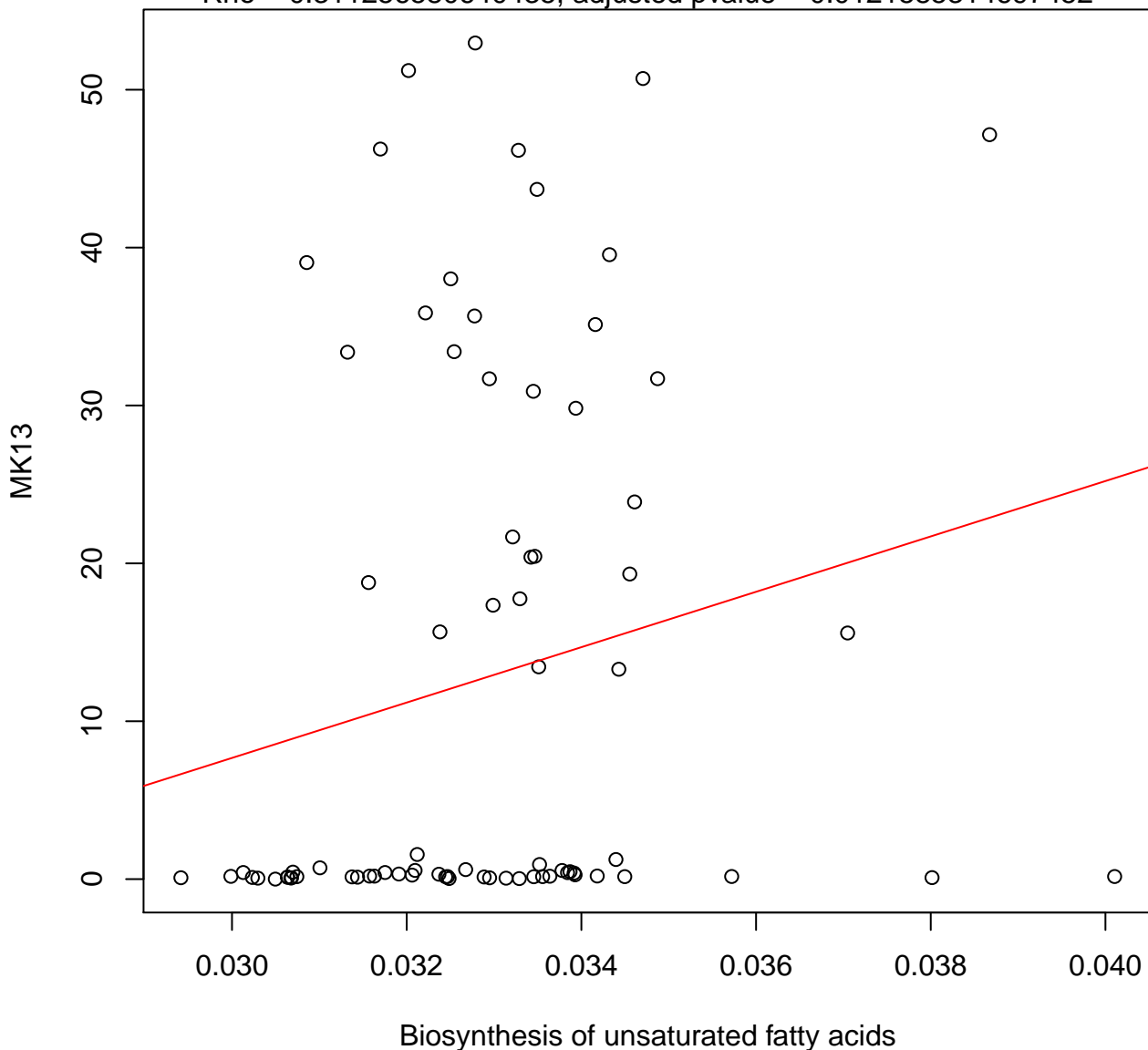
Timepoint 2 , MK13 ~ Ascorbate and aldarate metabolism

Rho = -0.409409073889395 , adjusted pvalue = 0.000488226756666935



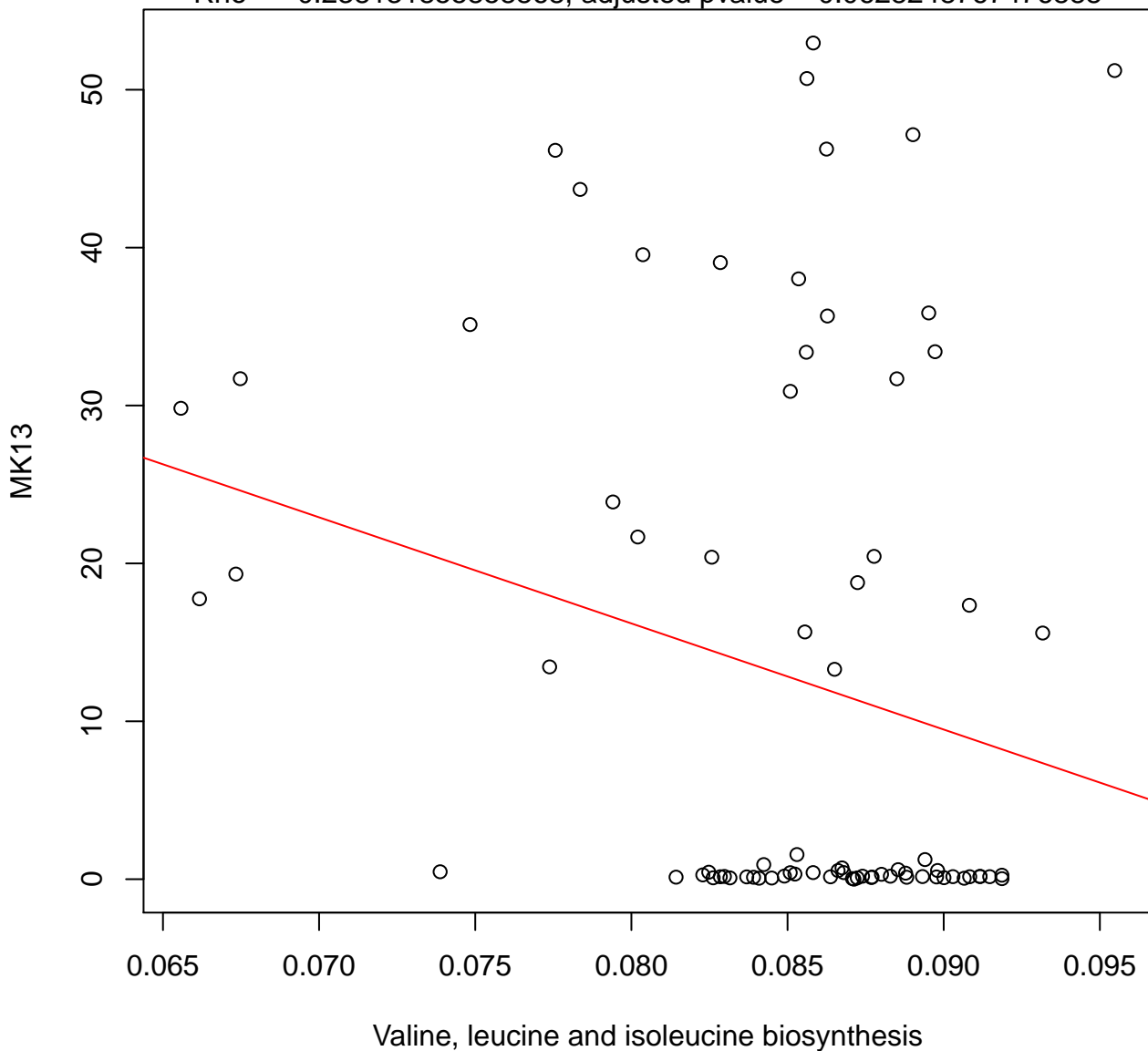
Timepoint 2 , MK13 ~ Biosynthesis of unsaturated fatty acids

Rho = 0.311256580640435, adjusted pvalue = 0.0121585314697452



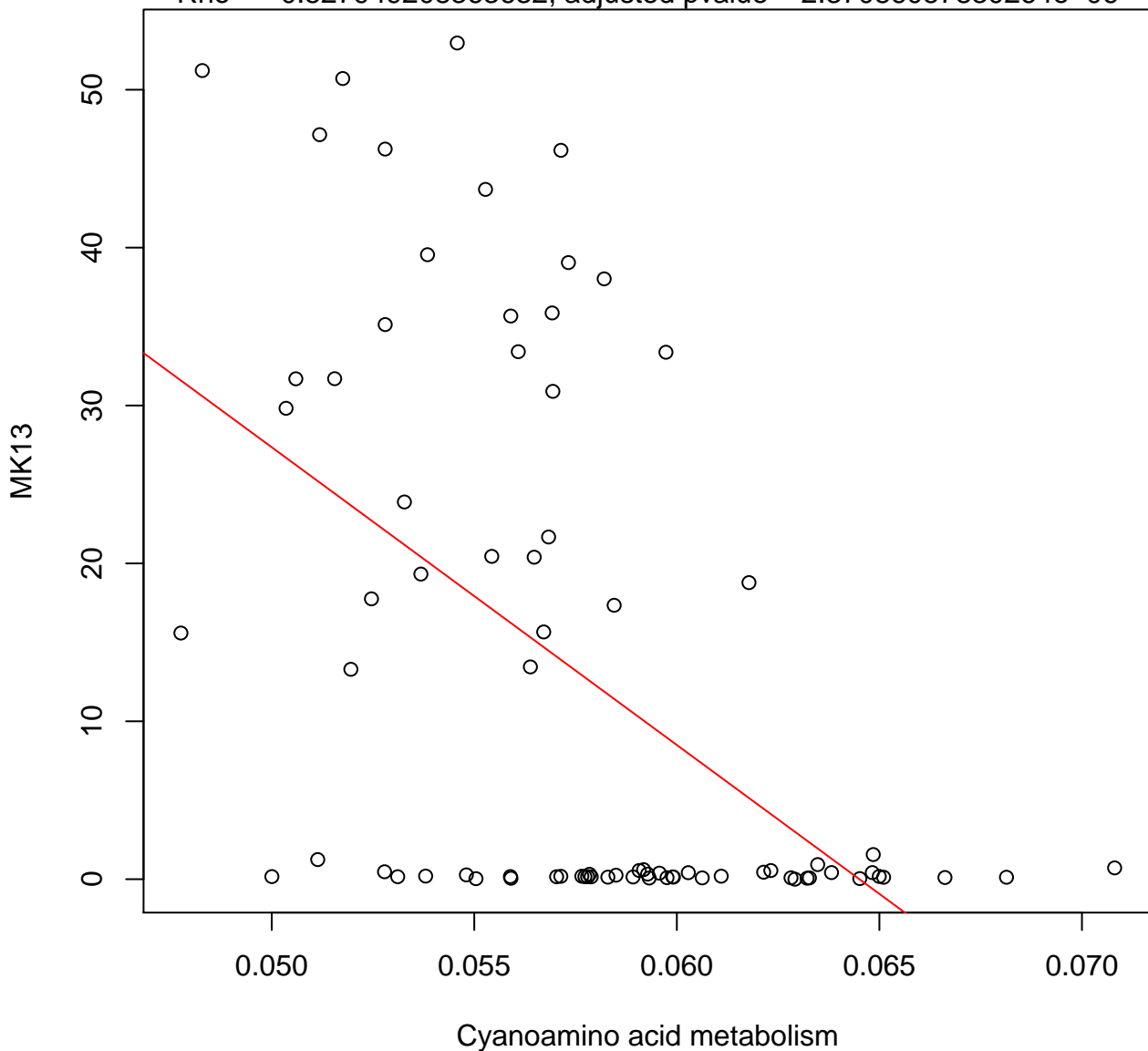
Timepoint 2 , MK13 ~ Valine, leucine and isoleucine biosynthesis

Rho = -0.238131855858868, adjusted pvalue = 0.0628248767476888



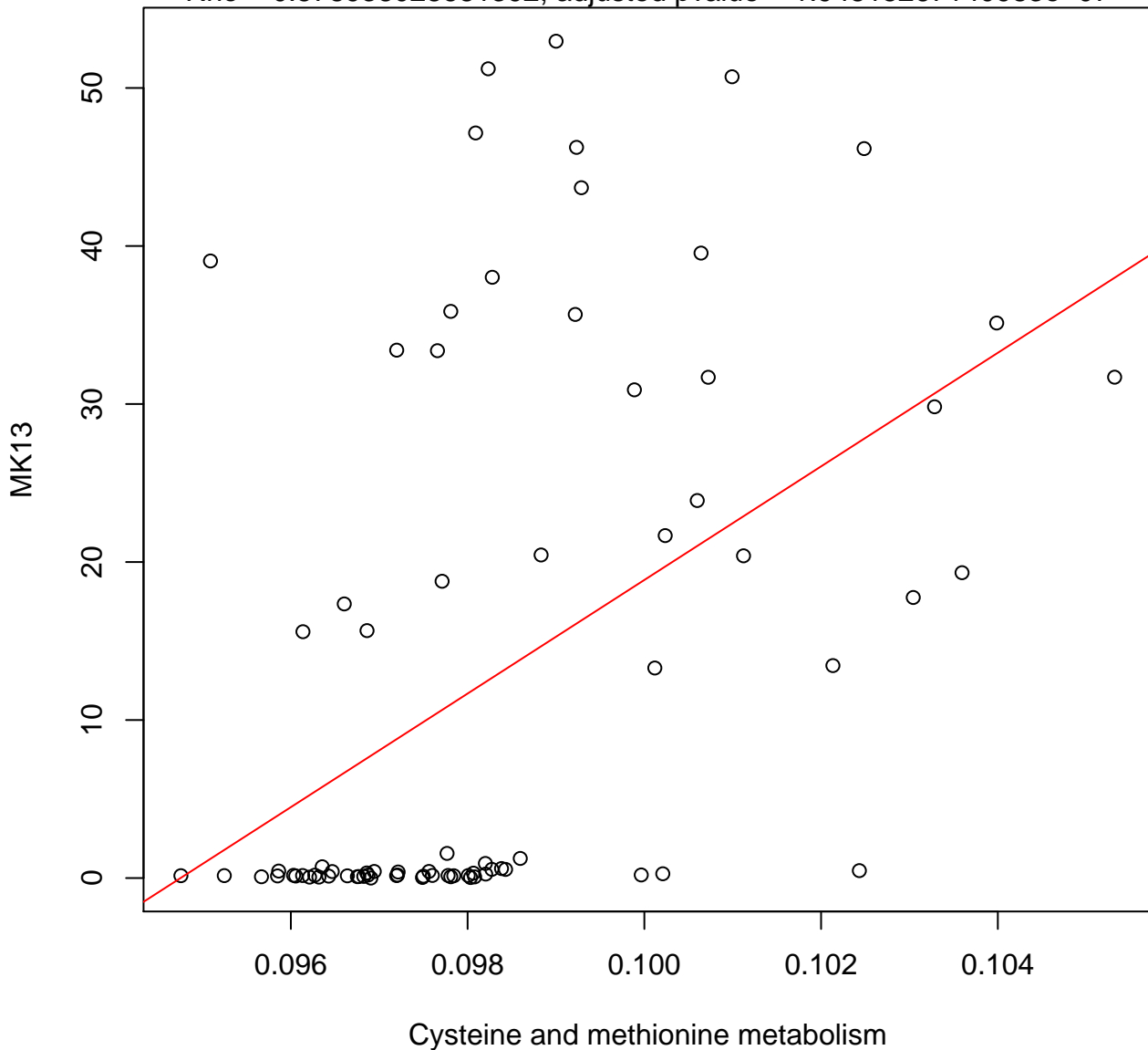
Timepoint 2 , MK13 ~ Cyanoamino acid metabolism

Rho = -0.527949208363632 , adjusted pvalue = $2.37086057830264e-06$



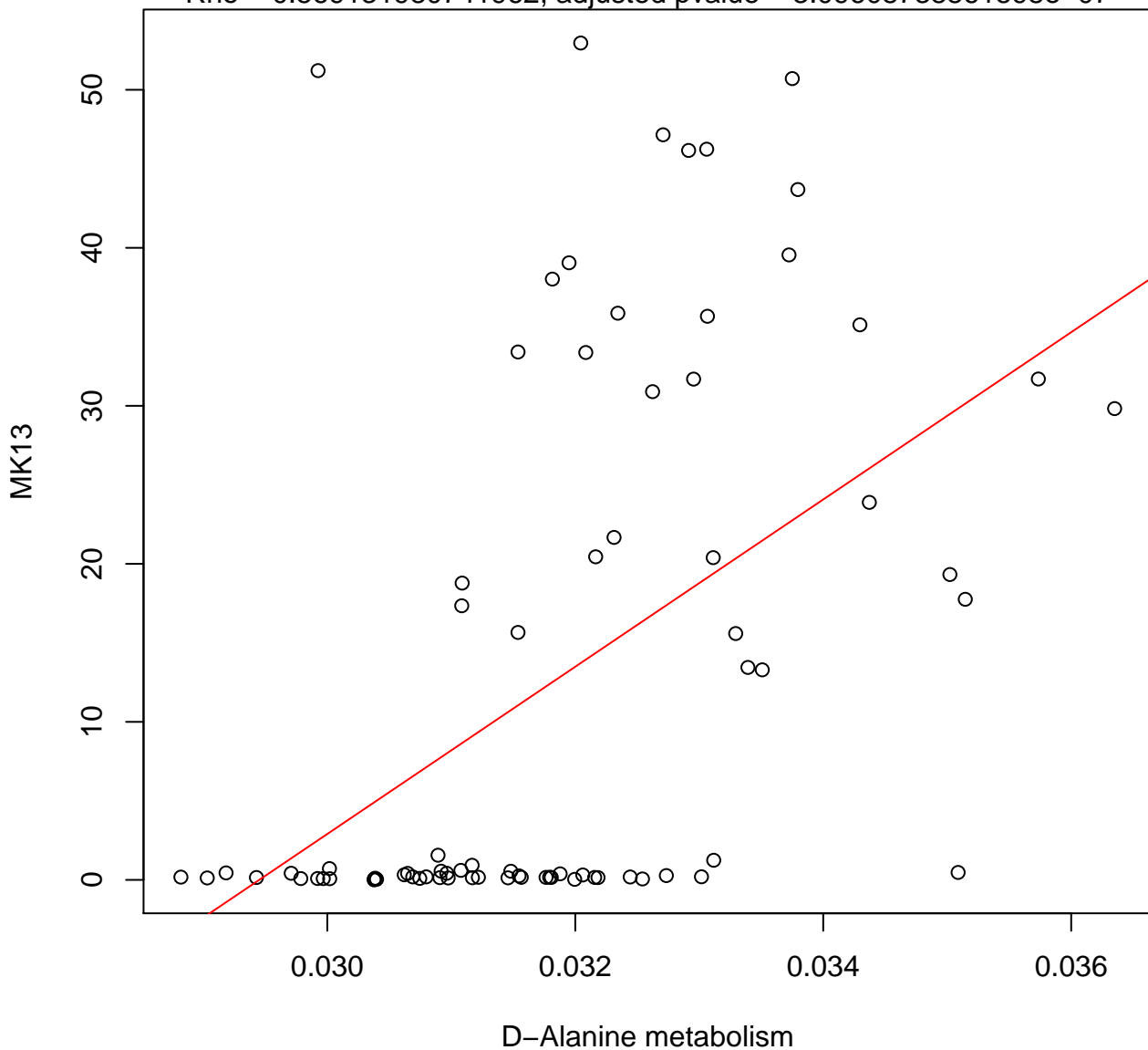
Timepoint 2 , MK13 ~ Cysteine and methionine metabolism

Rho = 0.578938028681392, adjusted pvalue = 1.94815267140983e-07



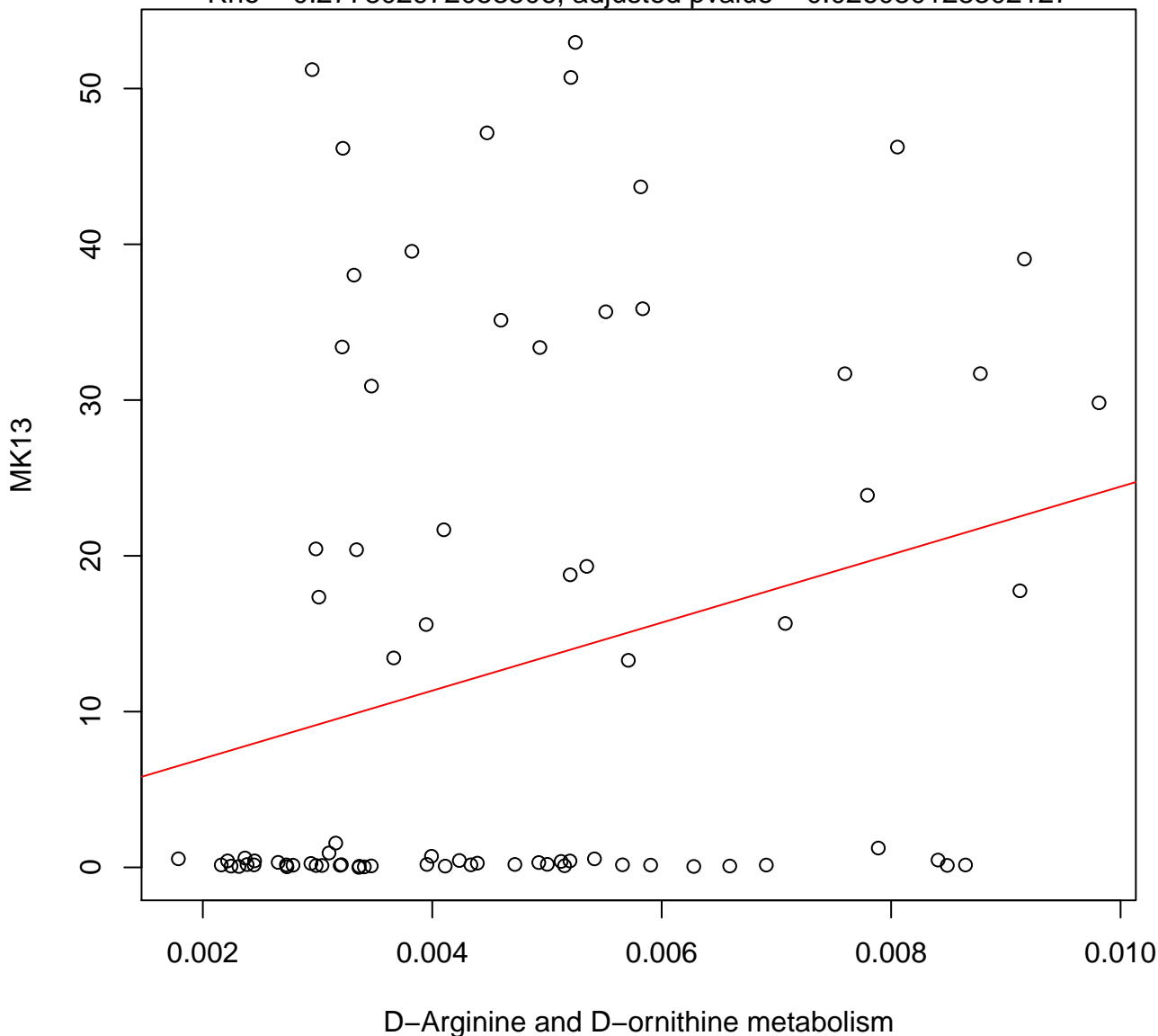
Timepoint 2 , MK13 ~ D-Alanine metabolism

Rho = 0.569131980741962, adjusted pvalue = 3.09608738861598e-07



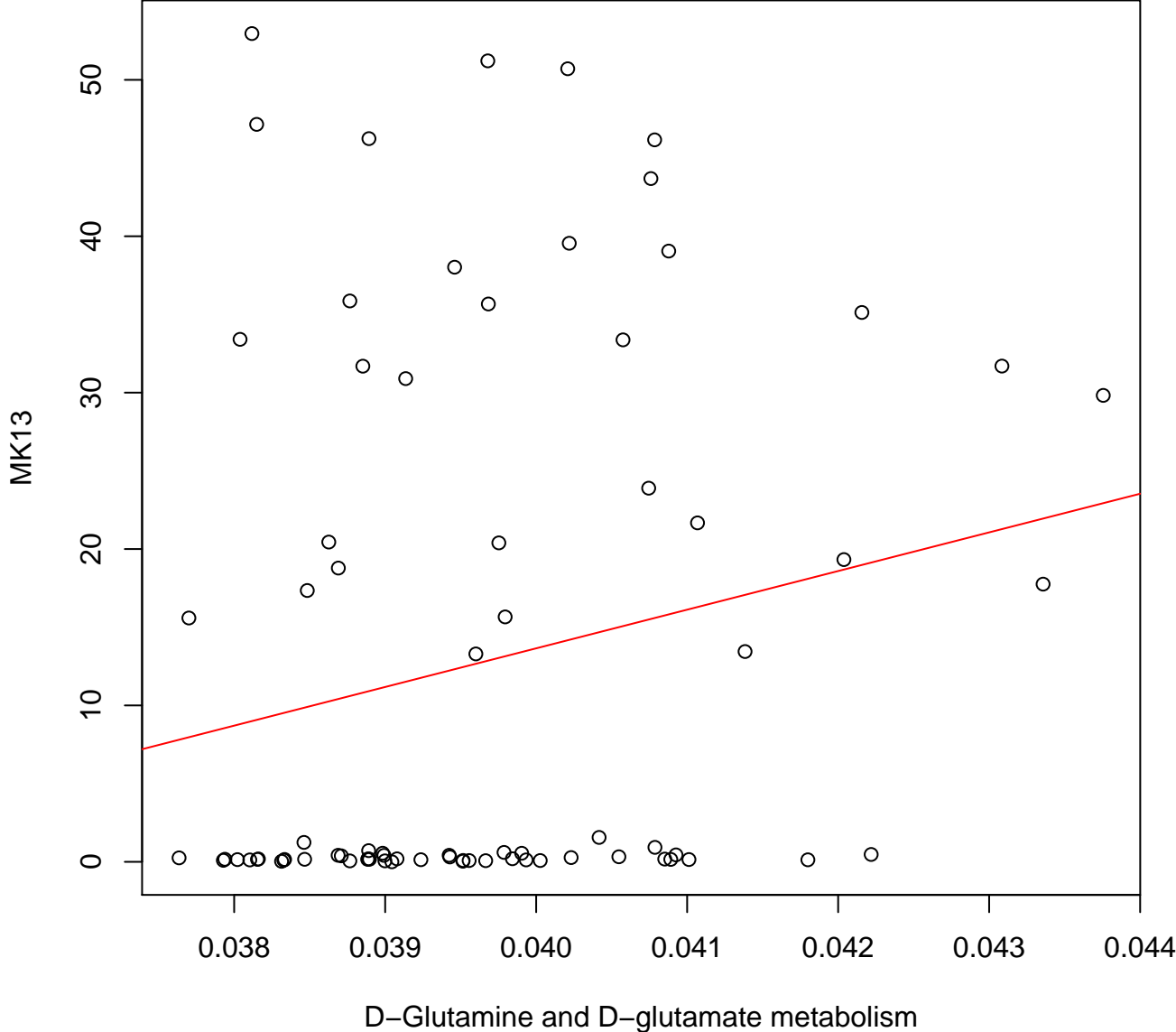
Timepoint 2 , MK13 ~ D-Arginine and D-ornithine metabolism

Rho = 0.277802972053506, adjusted pvalue = 0.026080128302127



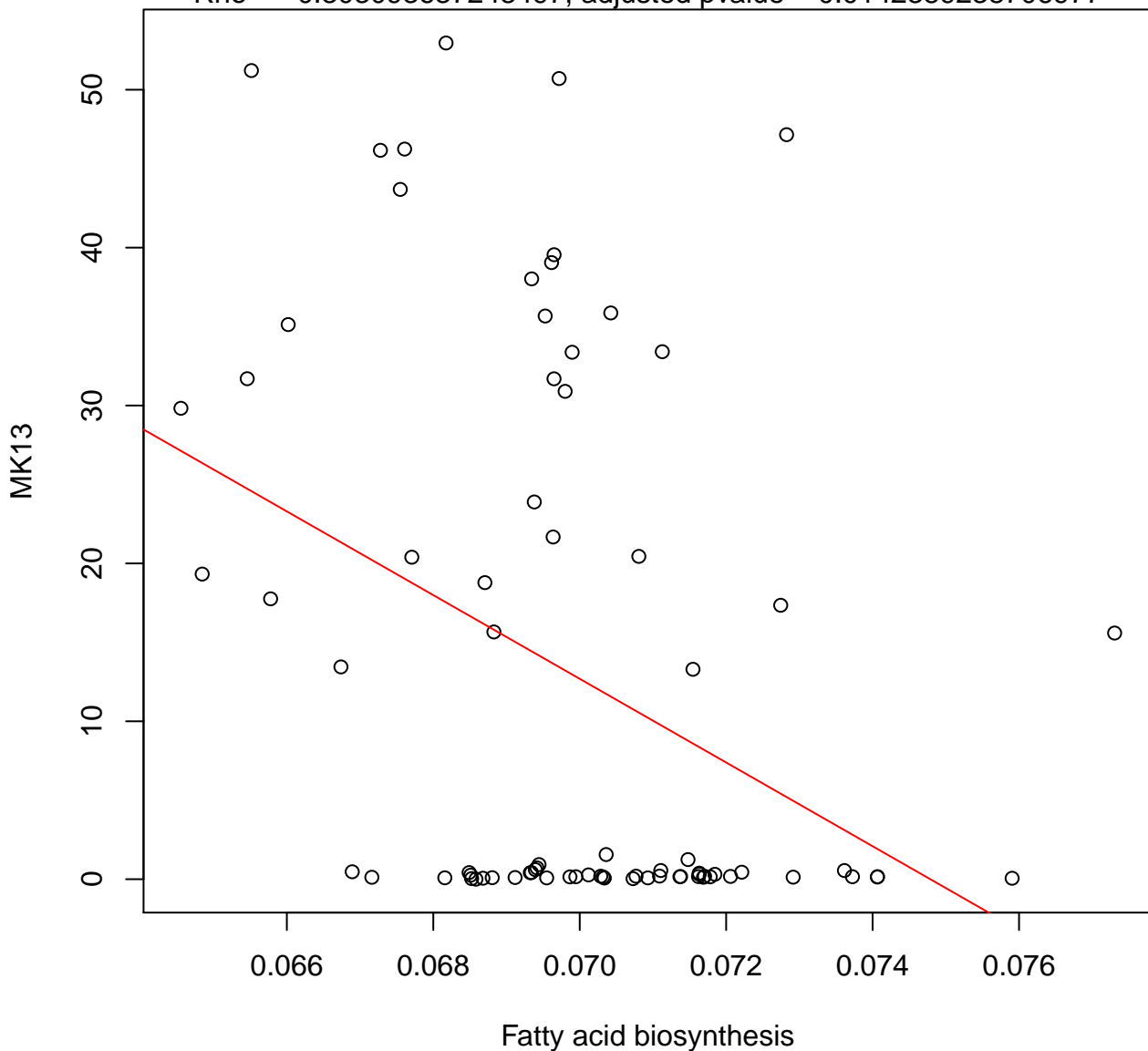
Timepoint 2 , MK13 ~ D-Glutamine and D-glutamate metabolism

Rho = 0.231243961595783, adjusted pvalue = 0.0688373600150884



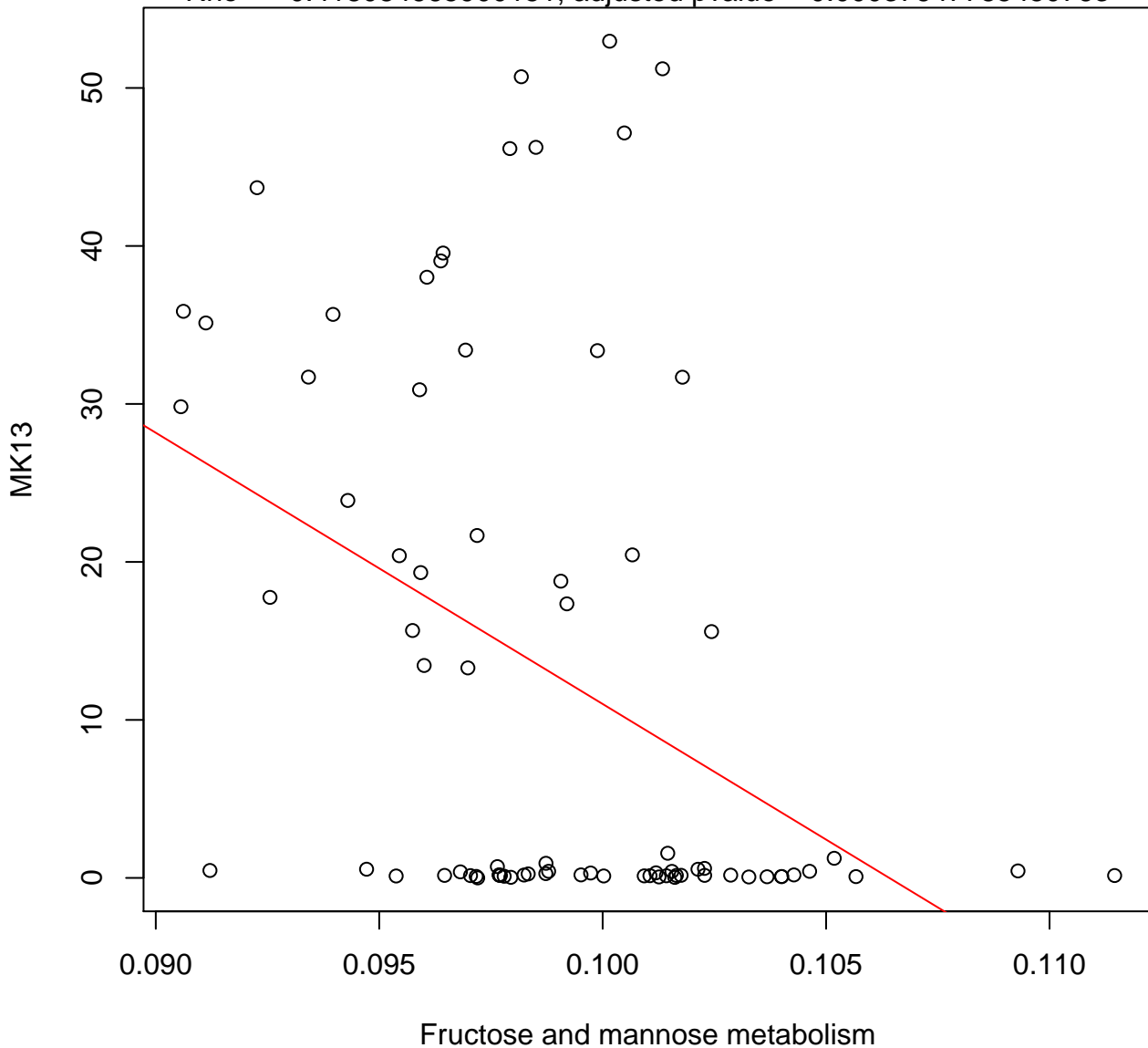
Timepoint 2 , MK13 ~ Fatty acid biosynthesis

Rho = -0.303093637248497 , adjusted pvalue = 0.0142389238706977



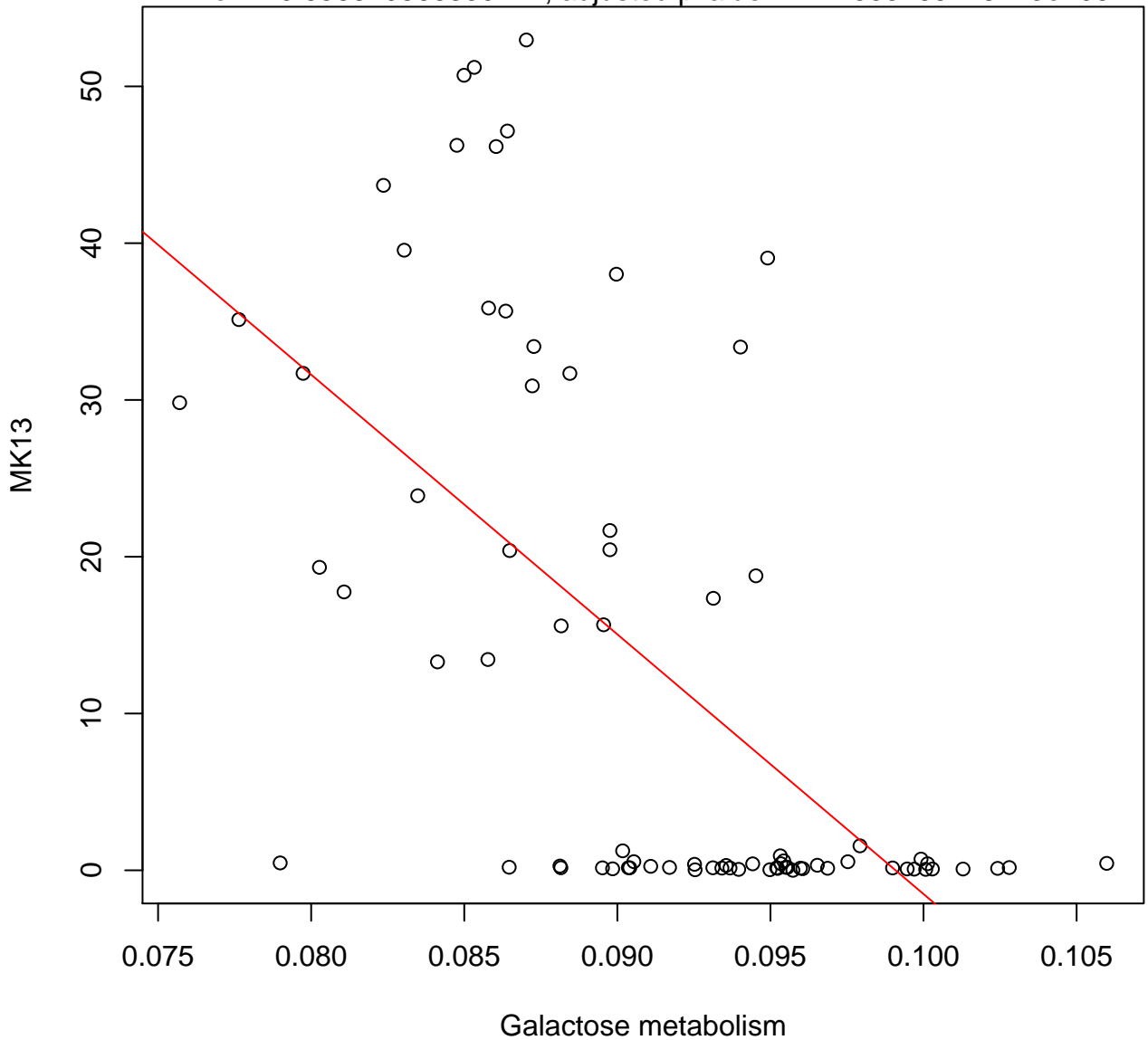
Timepoint 2 , MK13 ~ Fructose and mannose metabolism

Rho = -0.418084665900151 , adjusted pvalue = 0.00037647785450763

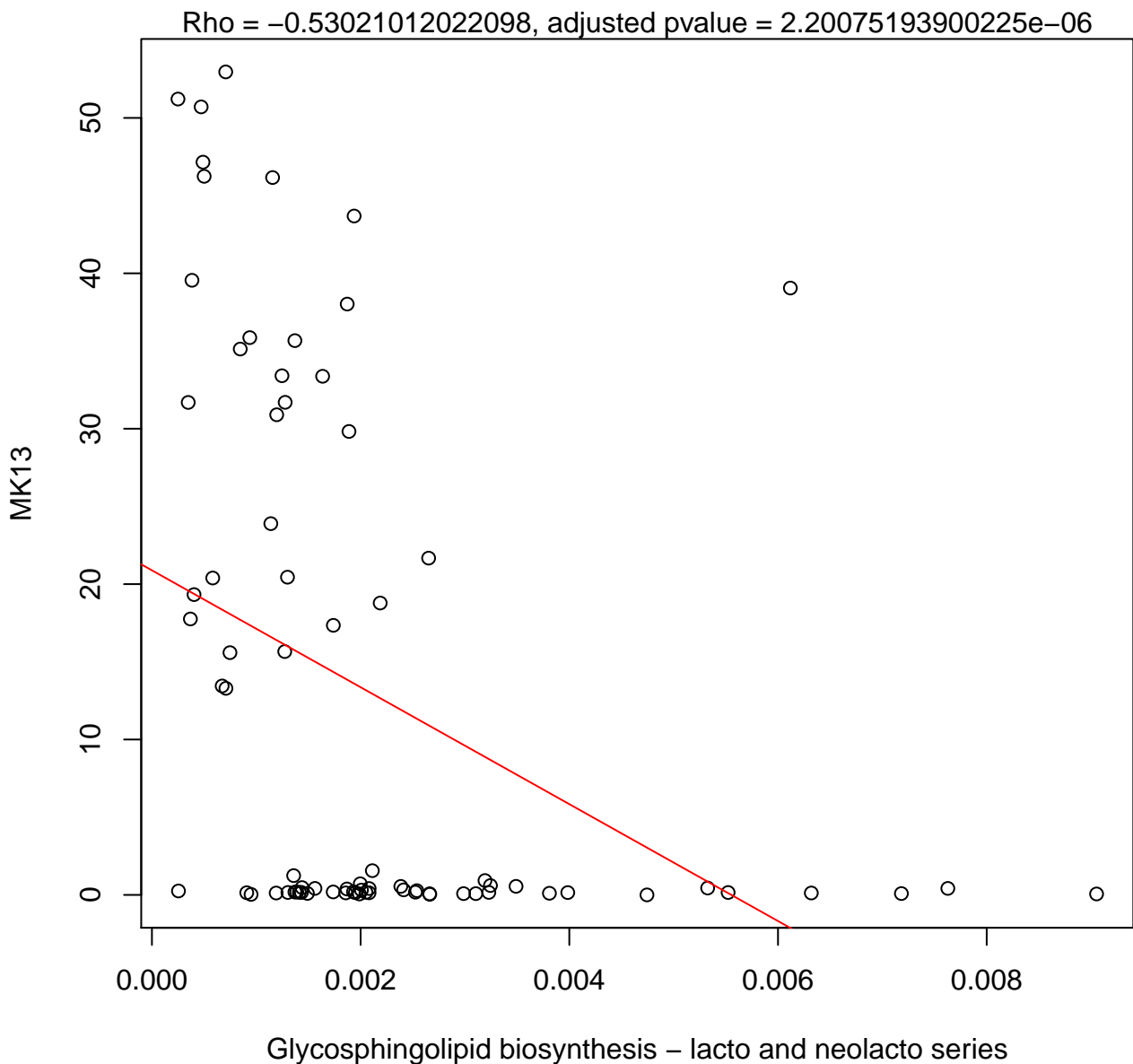


Timepoint 2 , MK13 ~ Galactose metabolism

Rho = -0.656610866850417, adjusted pvalue = 2.42555269178223e-09

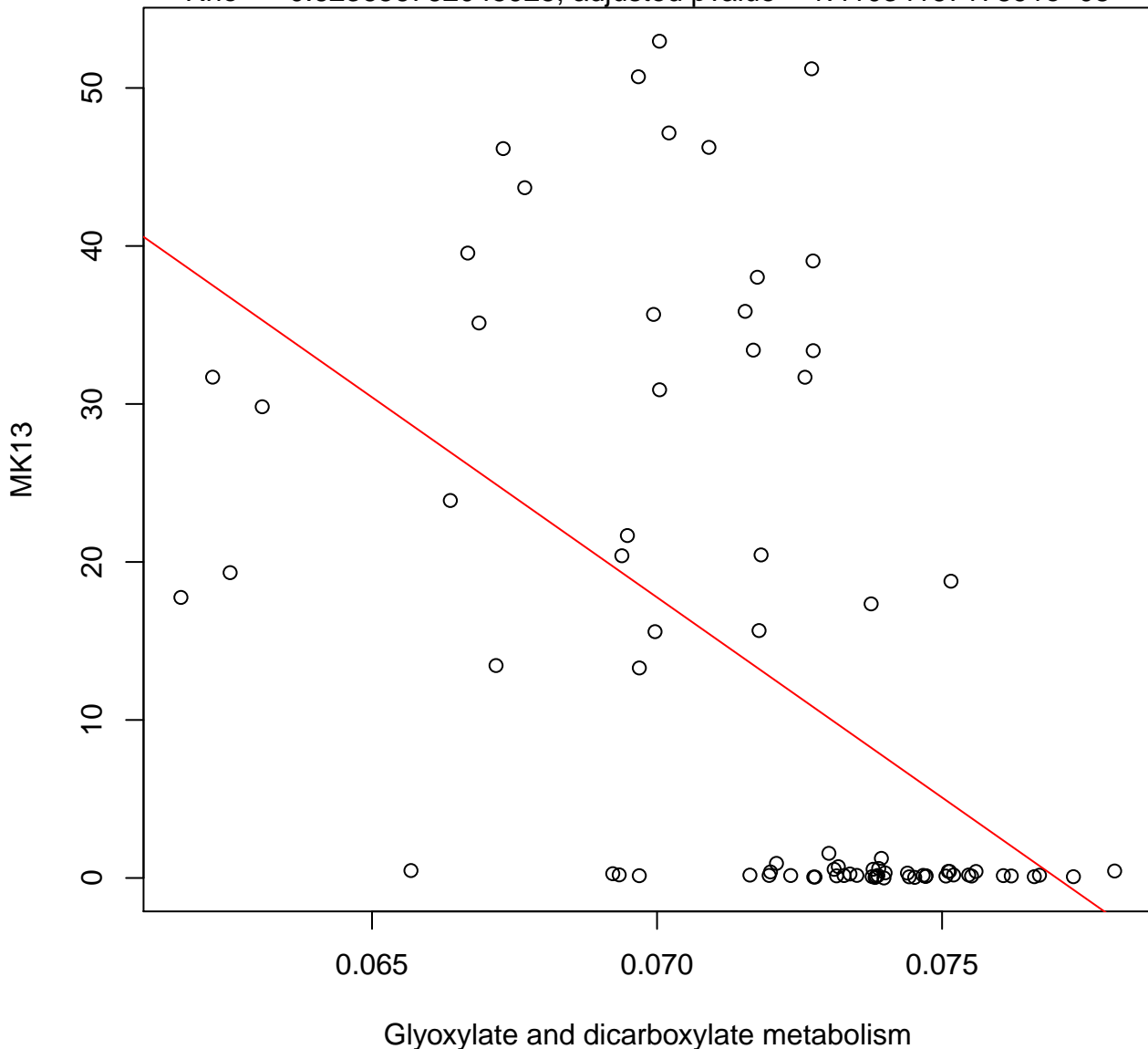


Timepoint 2 , MK13 ~ Glycosphingolipid biosynthesis – lacto and neolacto s



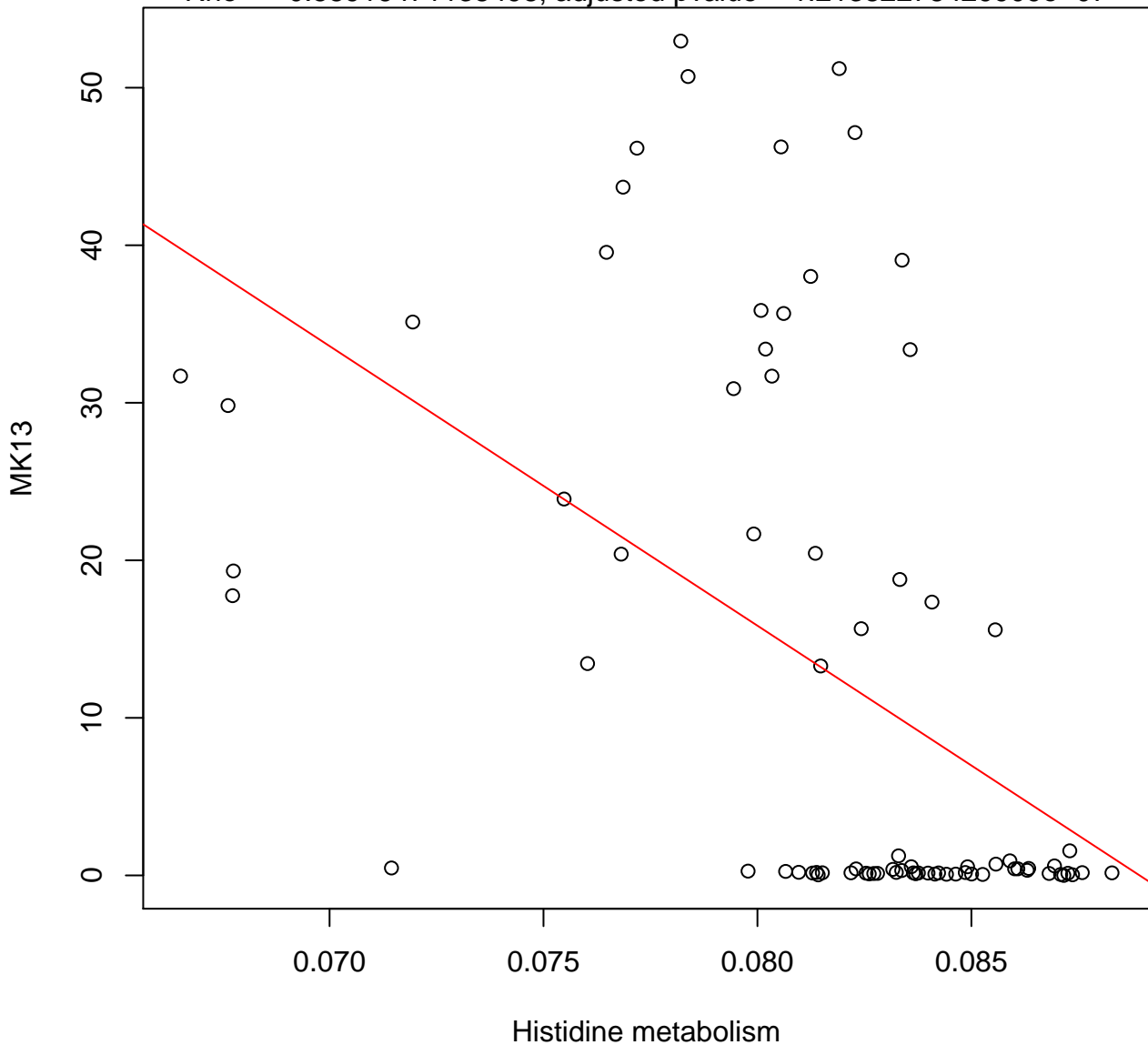
Timepoint 2 , MK13 ~ Glyoxylate and dicarboxylate metabolism

Rho = -0.623656762045925 , adjusted pvalue = $1.4103416717891e-08$



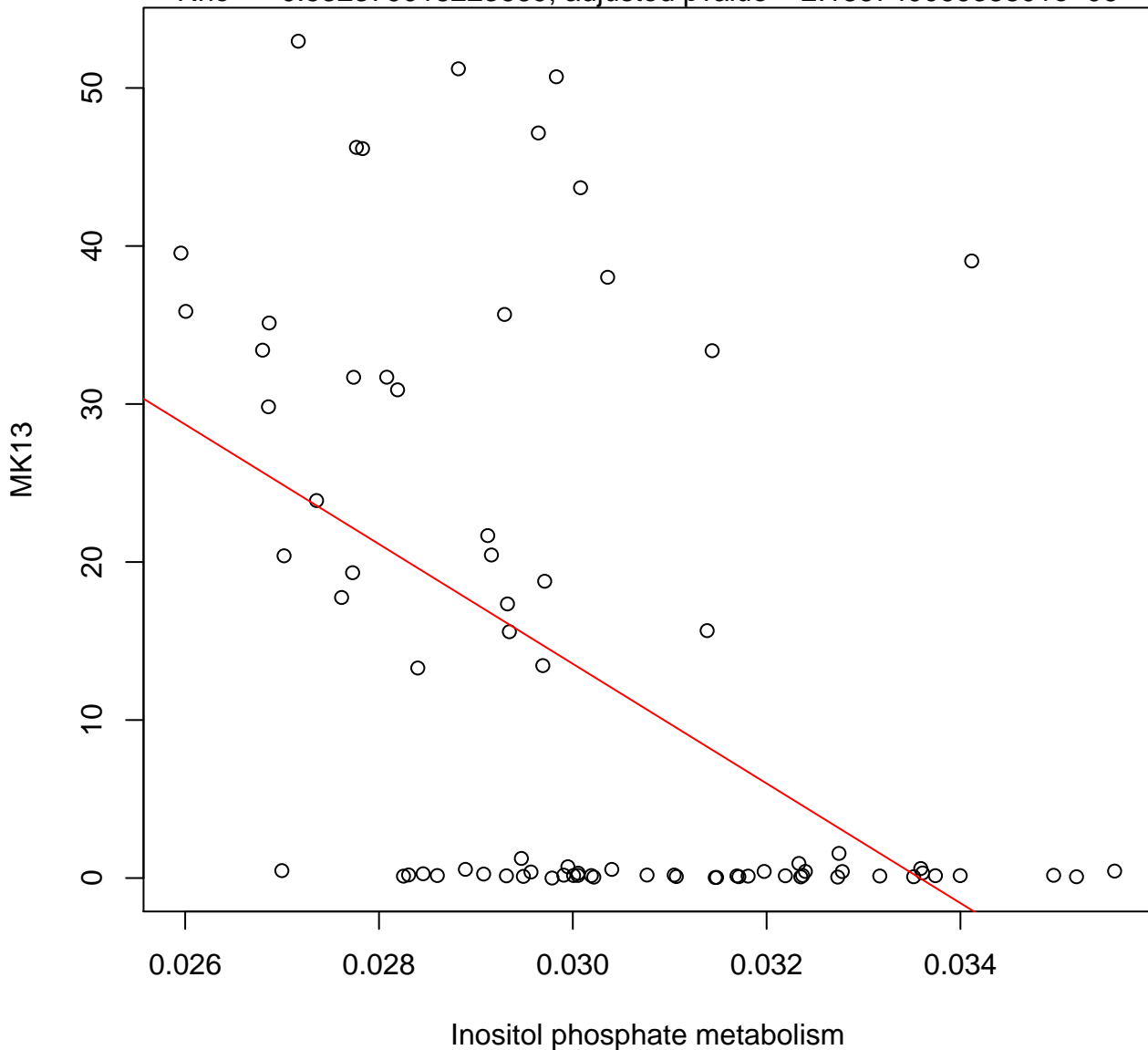
Timepoint 2 , MK13 ~ Histidine metabolism

Rho = -0.58916471138498, adjusted pvalue = 1.21382278429909e-07



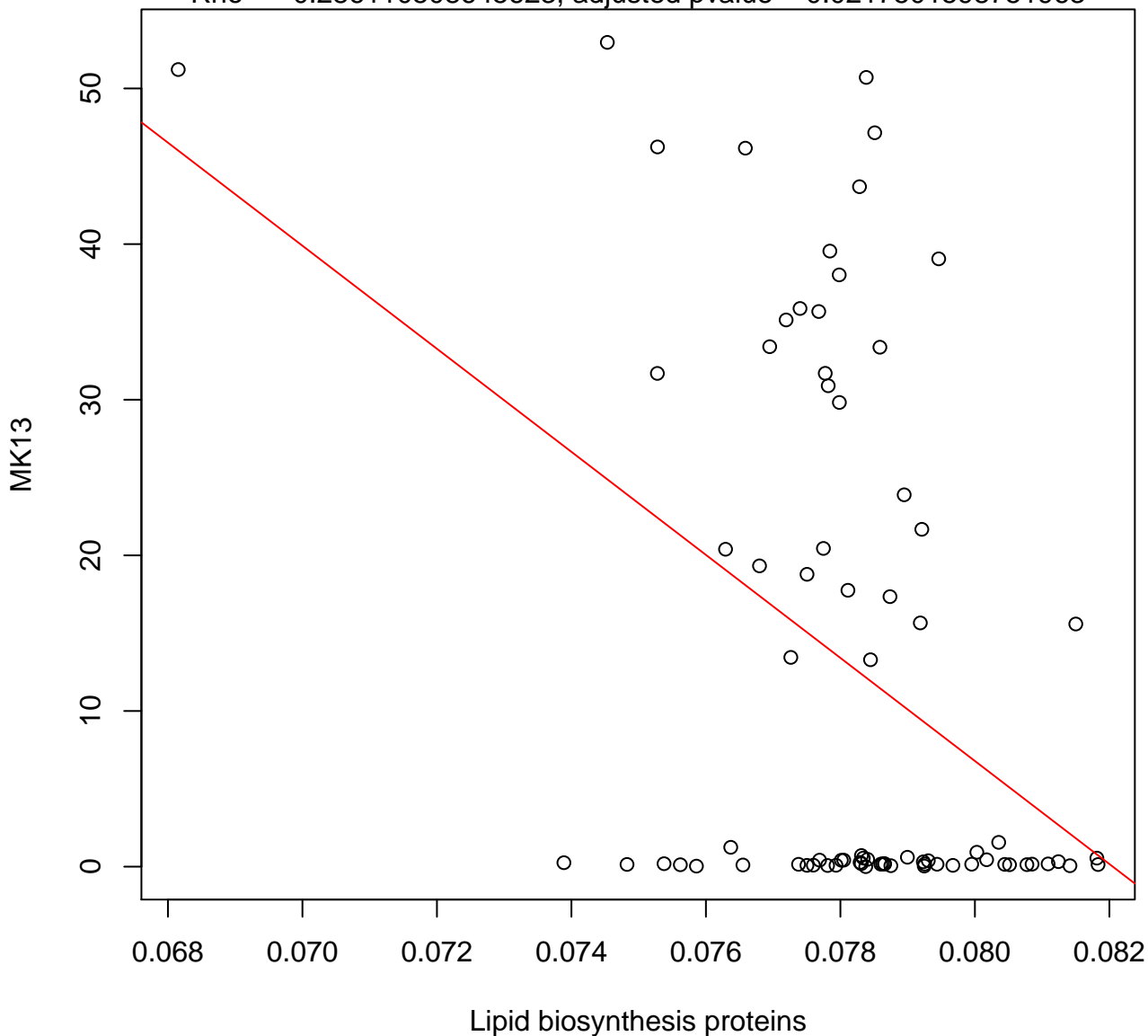
Timepoint 2, MK13 ~ Inositol phosphate metabolism

Rho = -0.532379018223669, adjusted pvalue = 2.18674006938801e-06



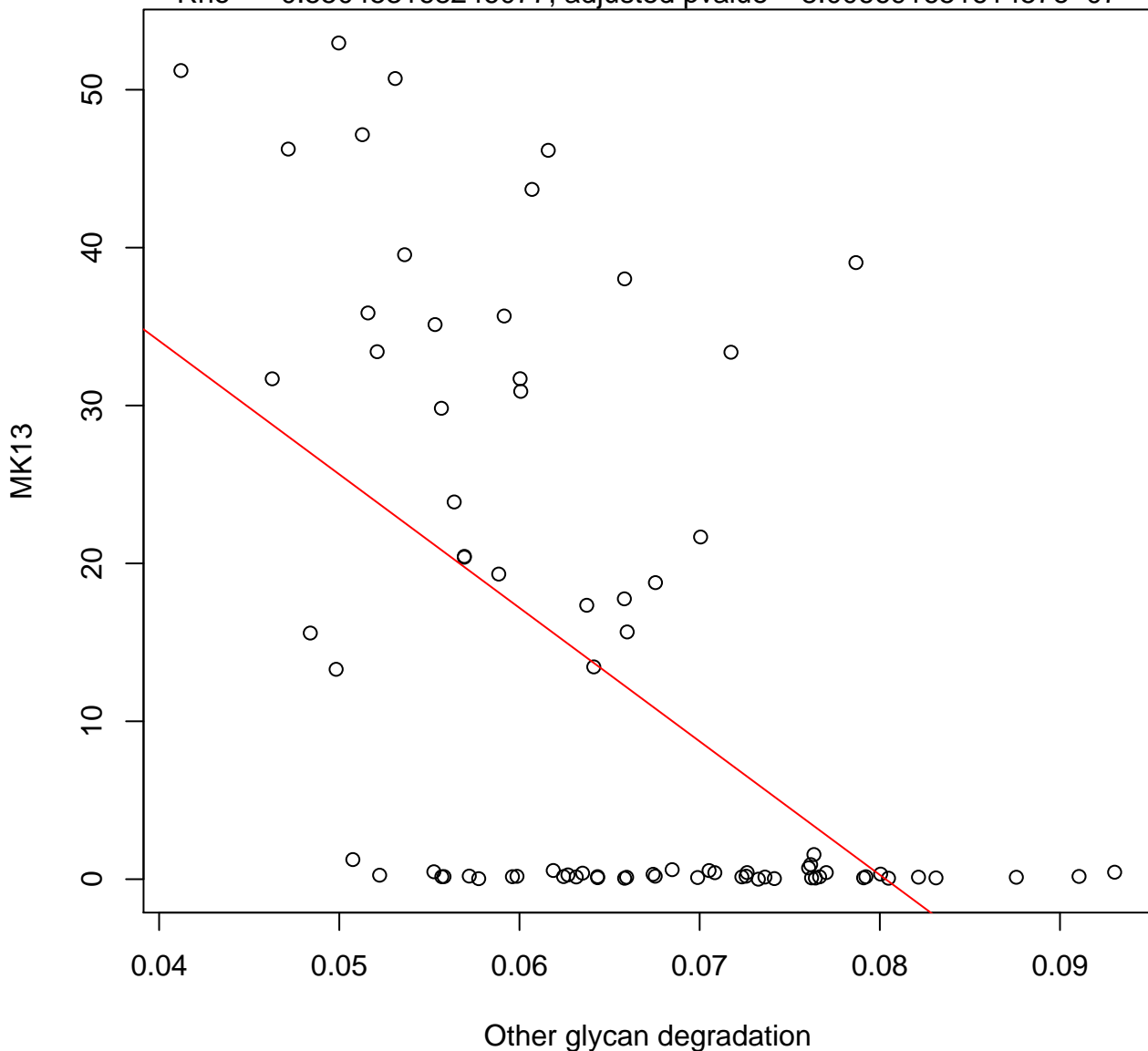
Timepoint 2 , MK13 ~ Lipid biosynthesis proteins

Rho = -0.286110508645623 , adjusted pvalue = 0.0217501598751963



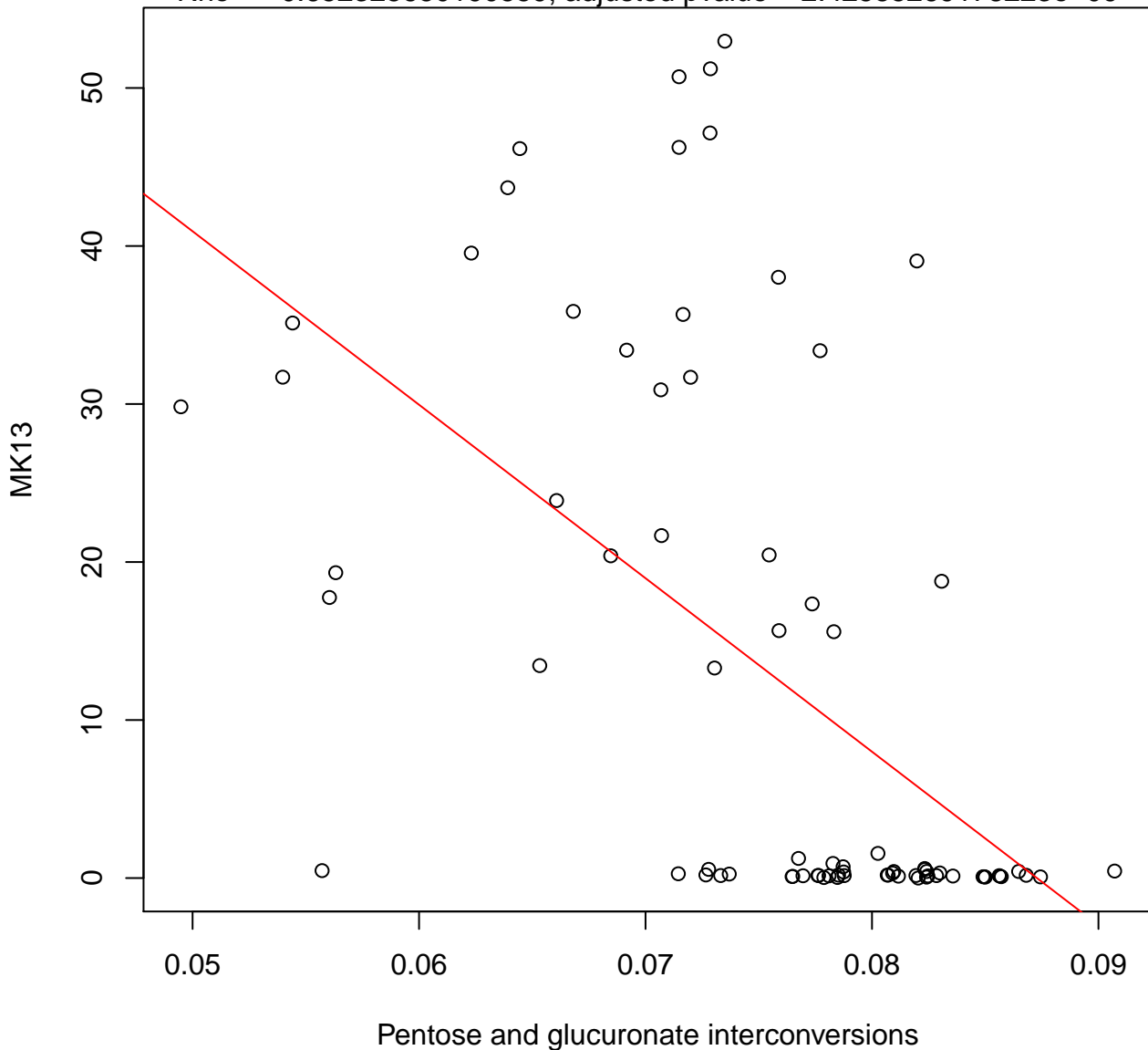
Timepoint 2 , MK13 ~ Other glycan degradation

Rho = -0.550453168246077 , adjusted pvalue = $8.00669165161457e-07$



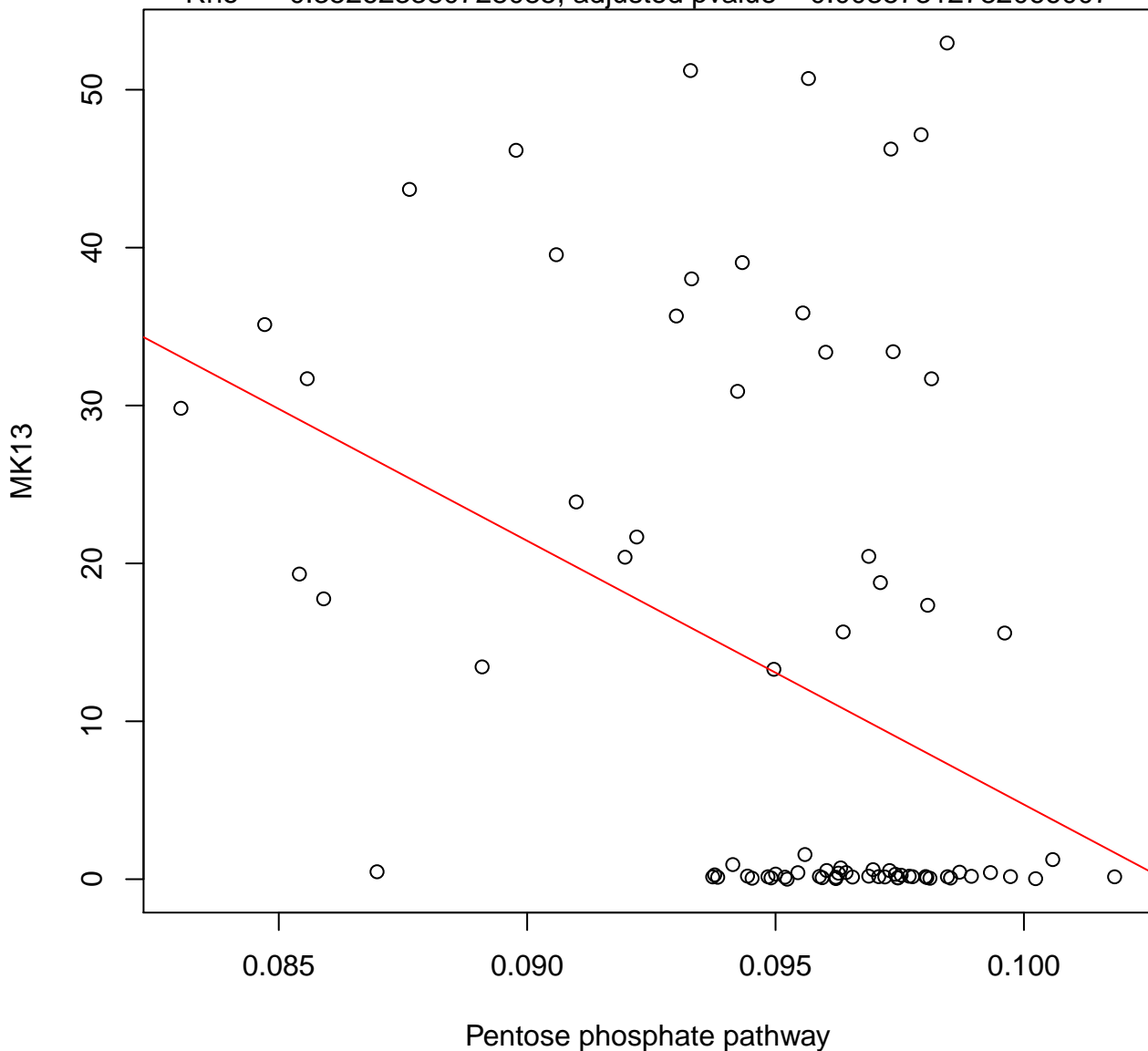
Timepoint 2 , MK13 ~ Pentose and glucuronate interconversions

Rho = -0.652325650190559 , adjusted pvalue = $2.4255269178223e-09$



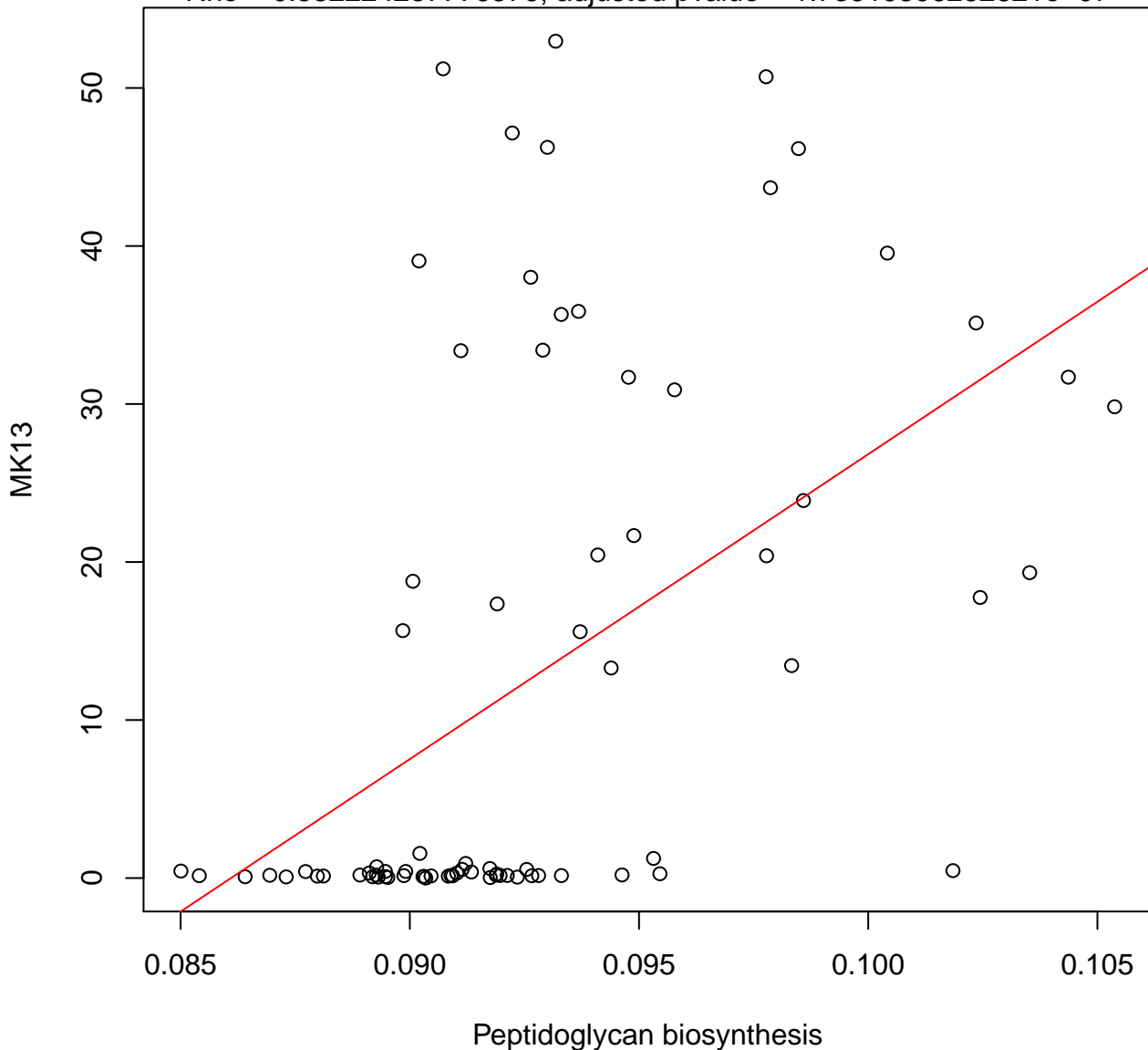
Timepoint 2 , MK13 ~ Pentose phosphate pathway

Rho = -0.352623380728085 , adjusted pvalue = 0.00357312782066007



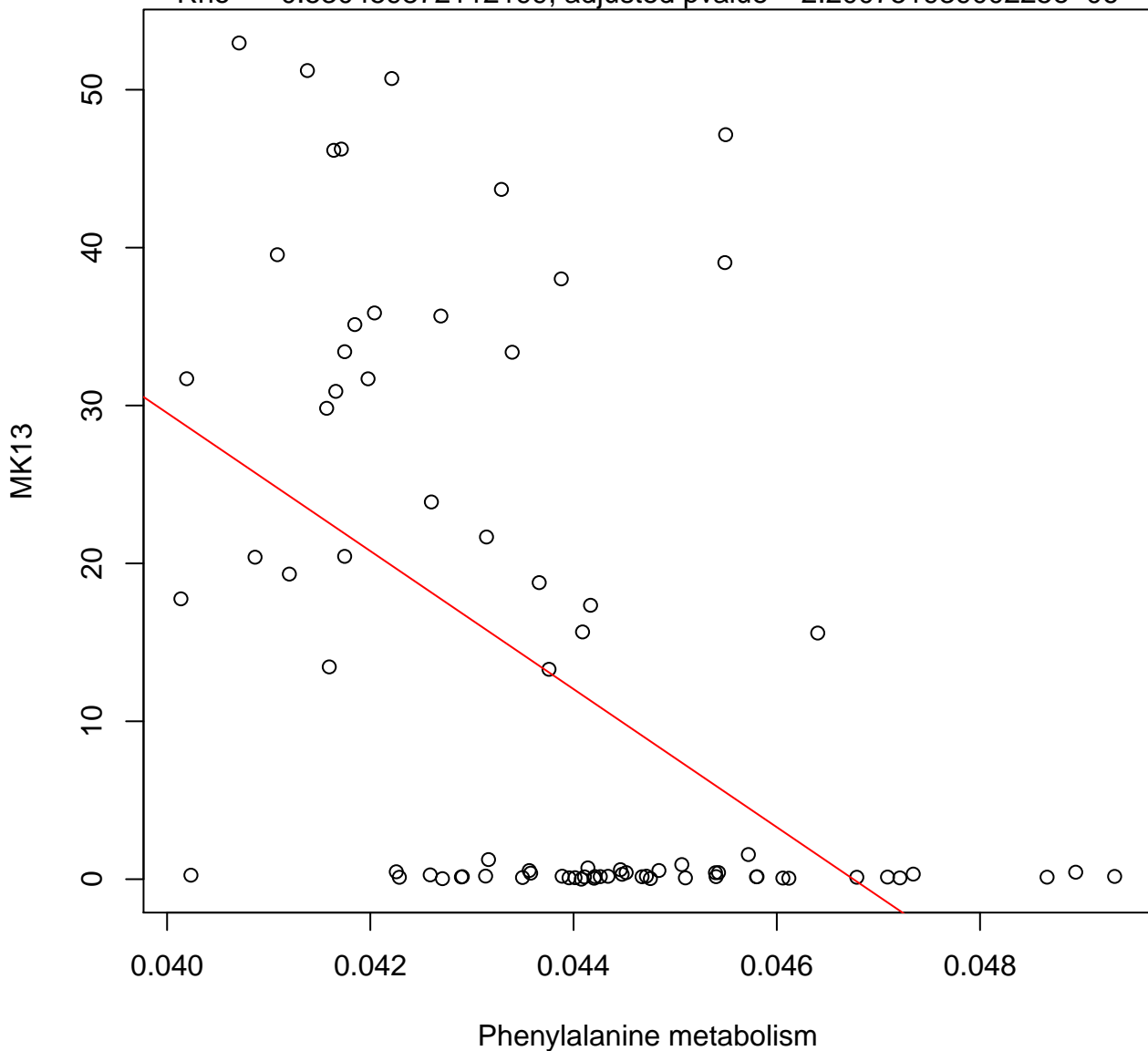
Timepoint 2 , MK13 ~ Peptidoglycan biosynthesis

Rho = 0.582224237776376, adjusted pvalue = 1.73519396252821e-07



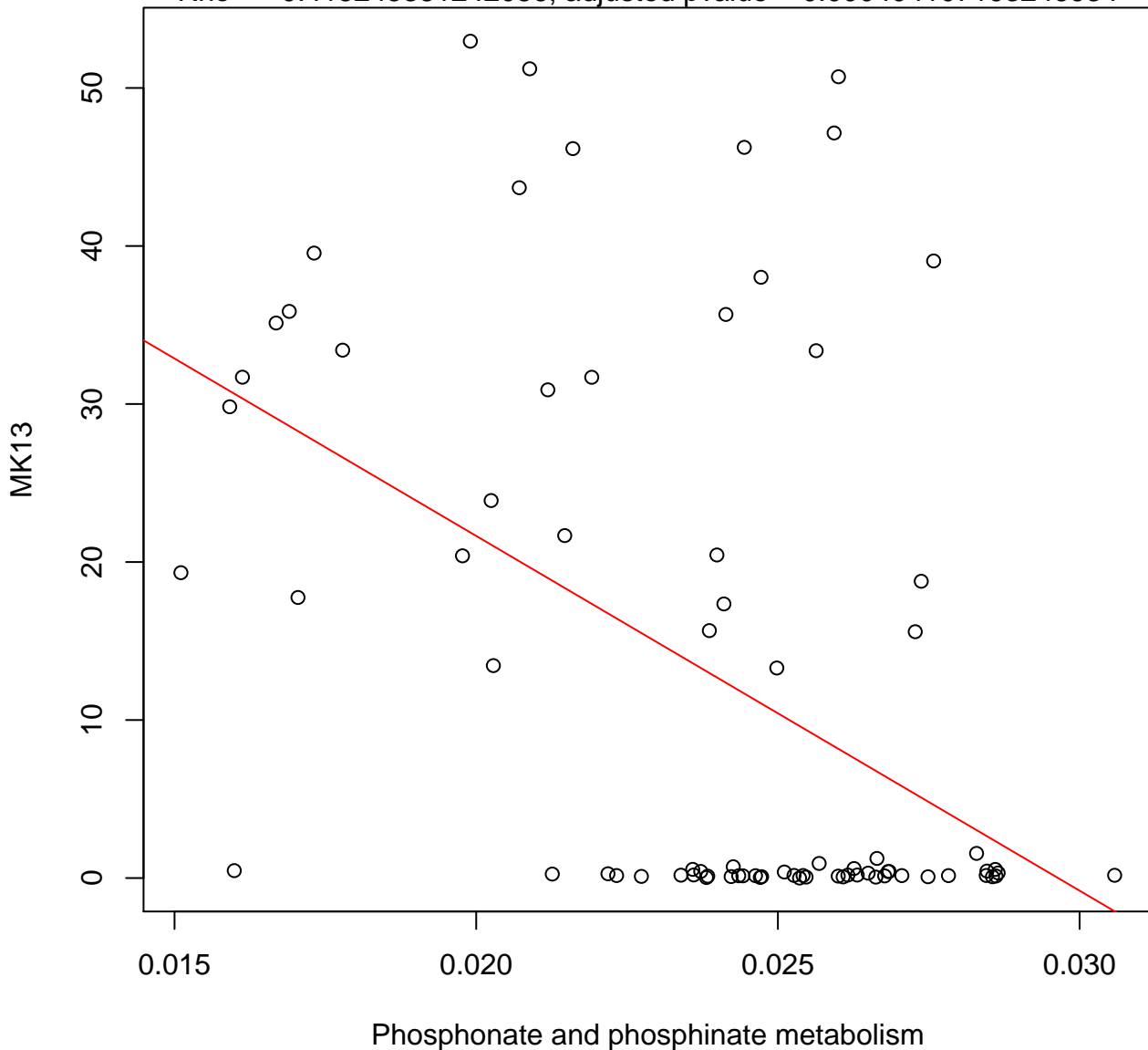
Timepoint 2 , MK13 ~ Phenylalanine metabolism

Rho = -0.530459872112199 , adjusted pvalue = $2.20075193900225e-06$



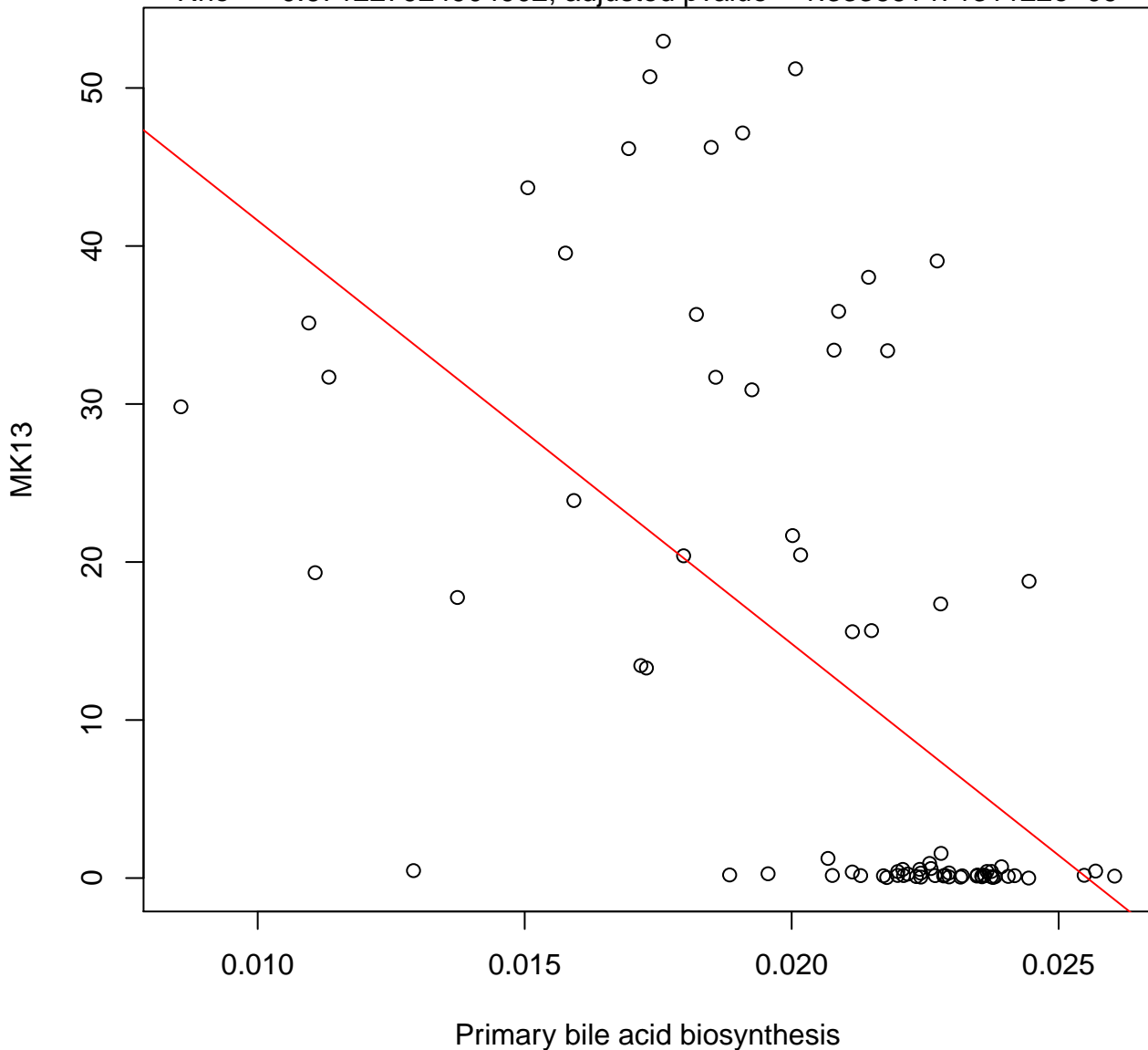
Timepoint 2 , MK13 ~ Phosphonate and phosphinate metabolism

Rho = -0.415245381242086, adjusted pvalue = 0.000404107193246934



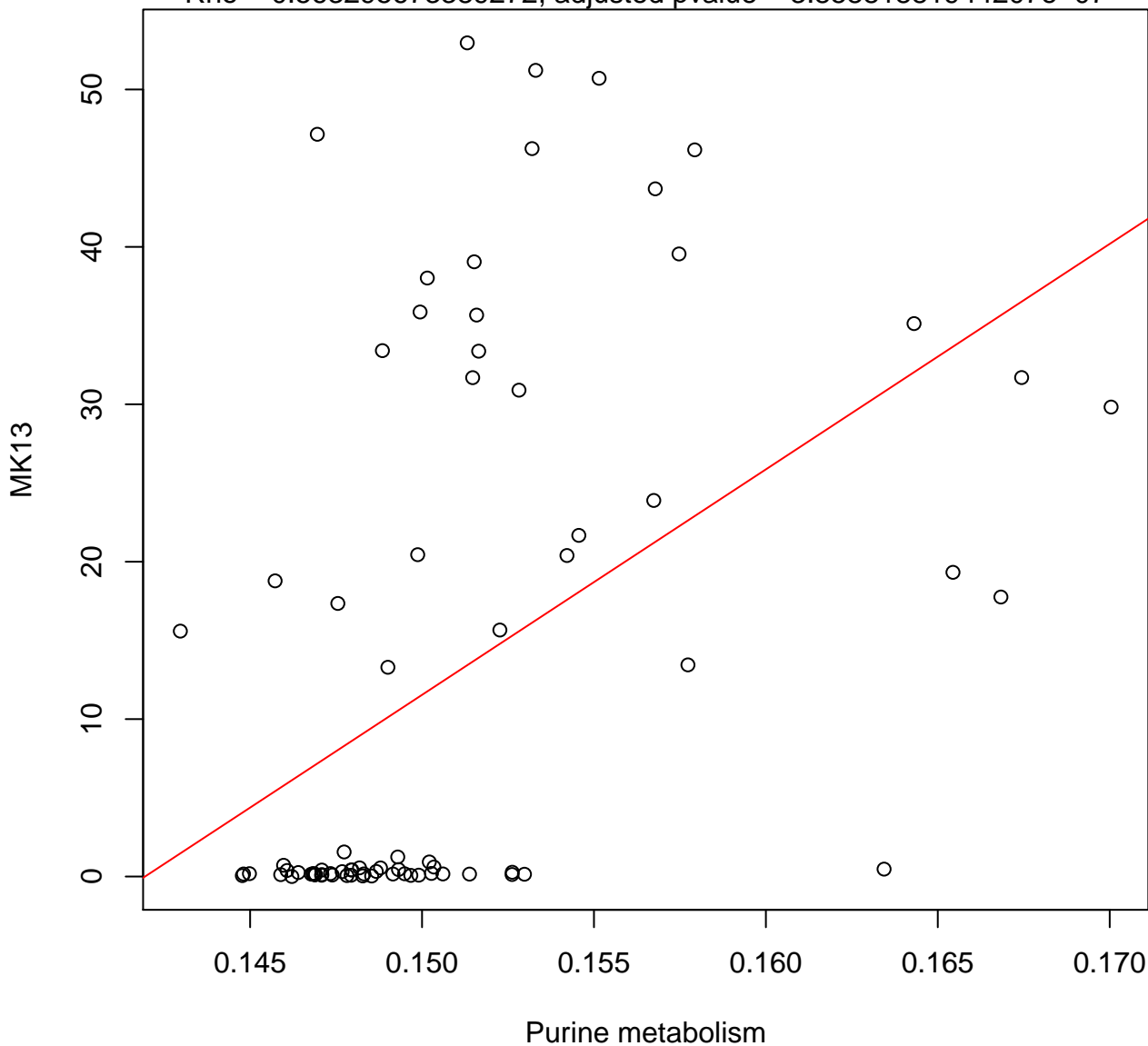
Timepoint 2, MK13 ~ Primary bile acid biosynthesis

Rho = -0.671227924904902, adjusted pvalue = 1.33366147131122e-09



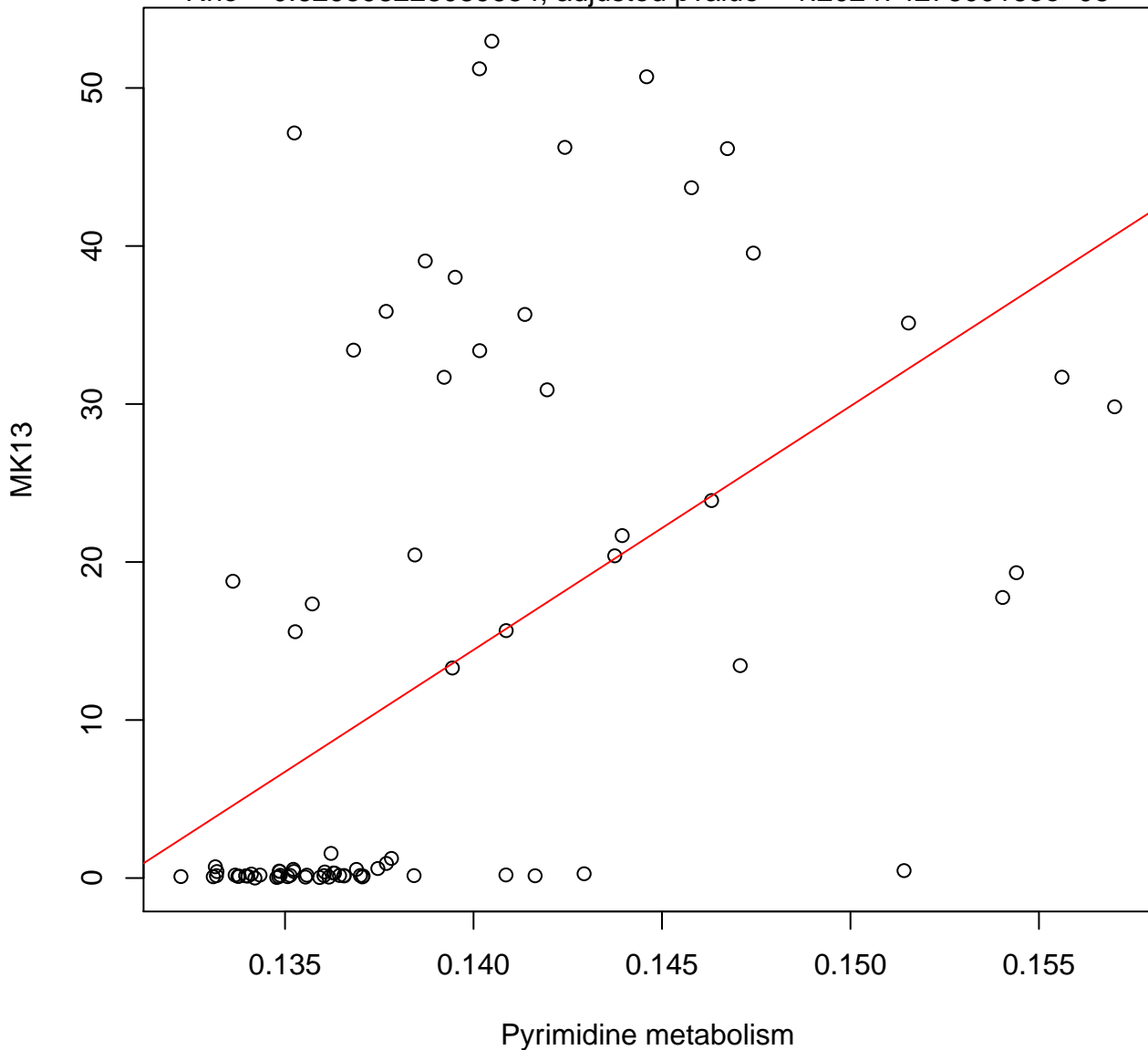
Timepoint 2 , MK13 ~ Purine metabolism

Rho = 0.563295673389272, adjusted pvalue = 3.85881881944207e-07



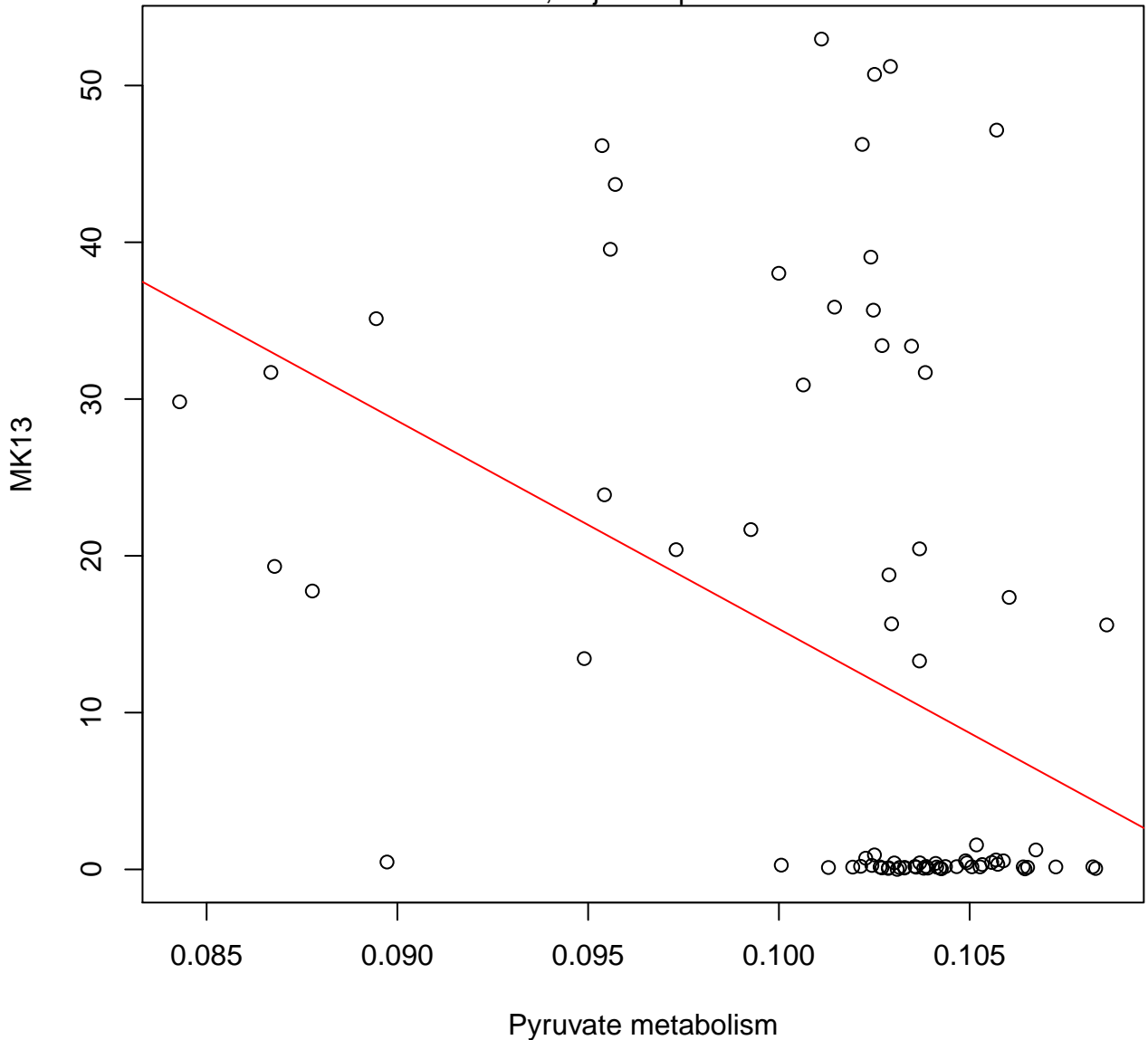
Timepoint 2, MK13 ~ Pyrimidine metabolism

Rho = 0.629598228089654, adjusted pvalue = 1.20247427600163e-08



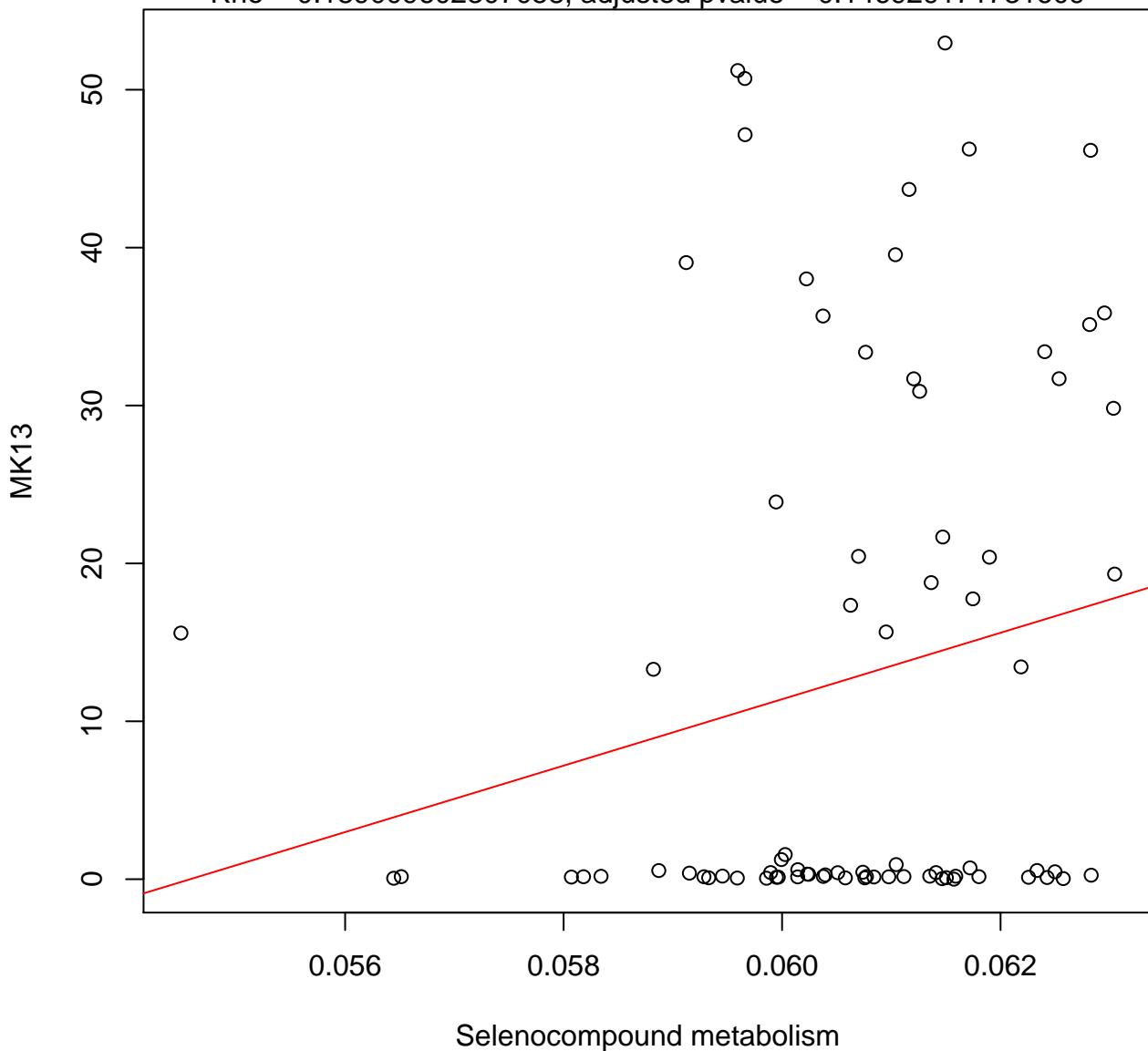
Timepoint 2 , MK13 ~ Pyruvate metabolism

Rho = -0.449474535175431, adjusted pvalue = 0.000109841139974128



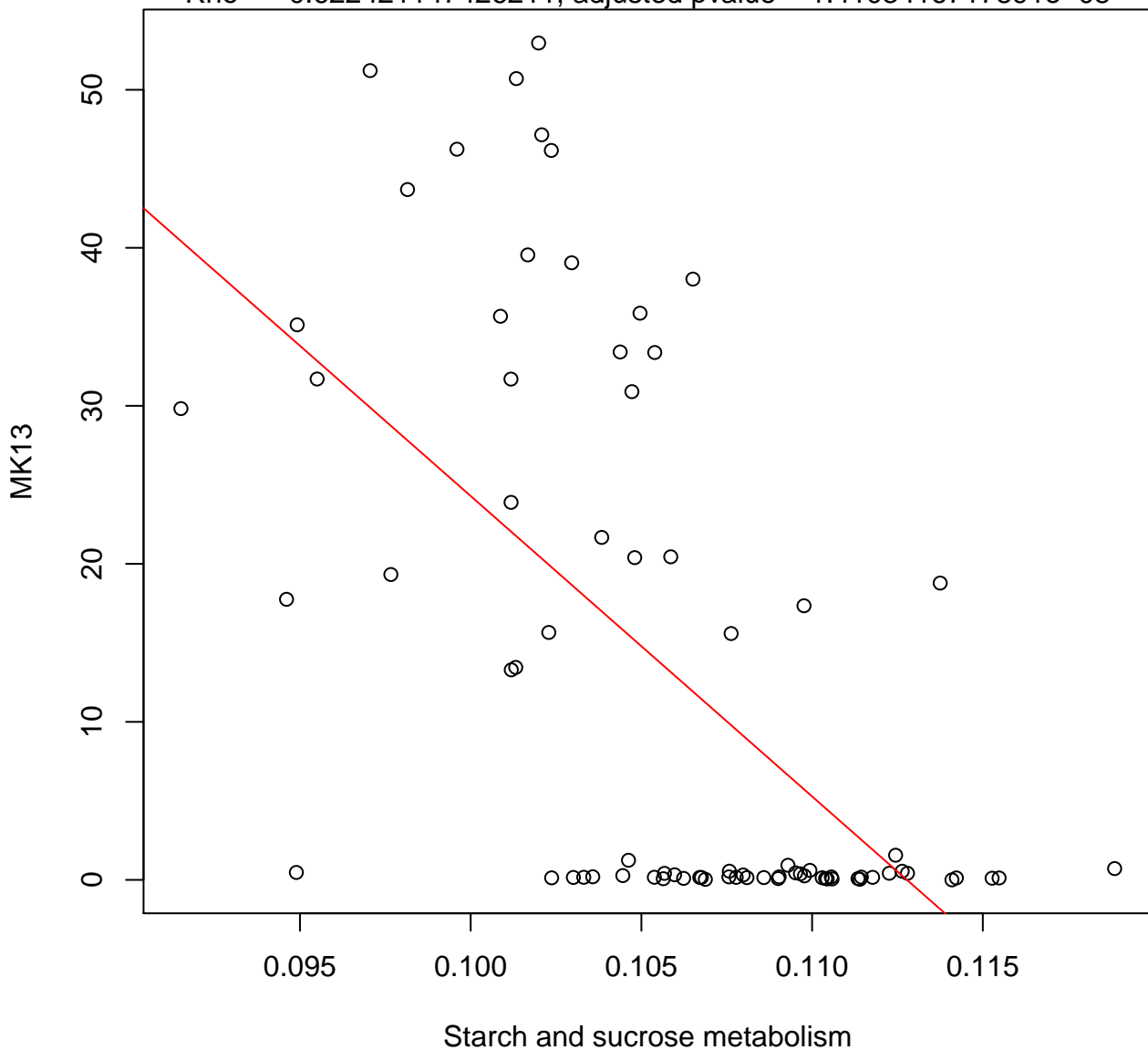
Timepoint 2 , MK13 ~ Selenocompound metabolism

Rho = 0.189009602307058, adjusted pvalue = 0.146929171731609



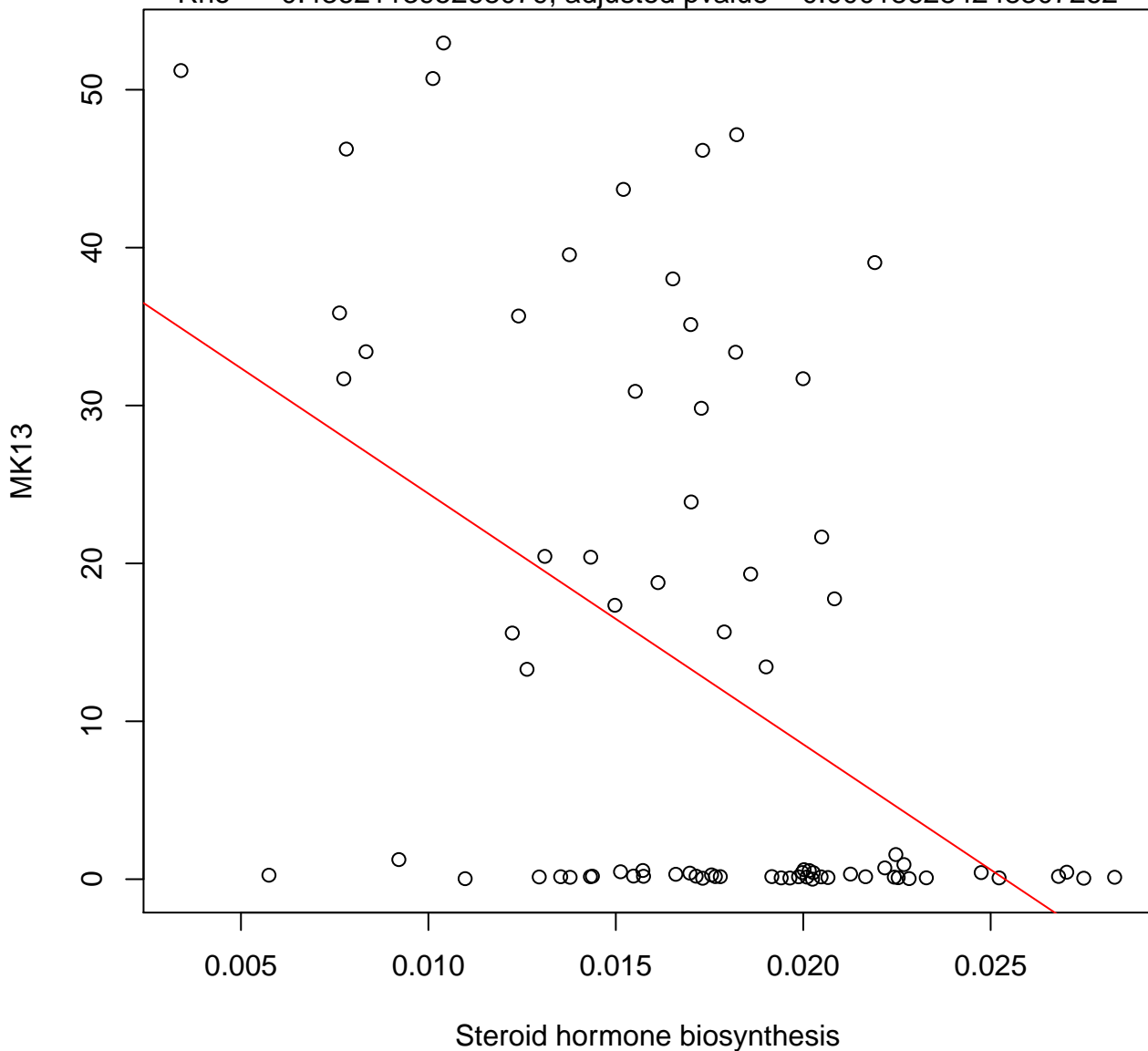
Timepoint 2 , MK13 ~ Starch and sucrose metabolism

Rho = -0.622421147426211 , adjusted pvalue = $1.4103416717891e-08$



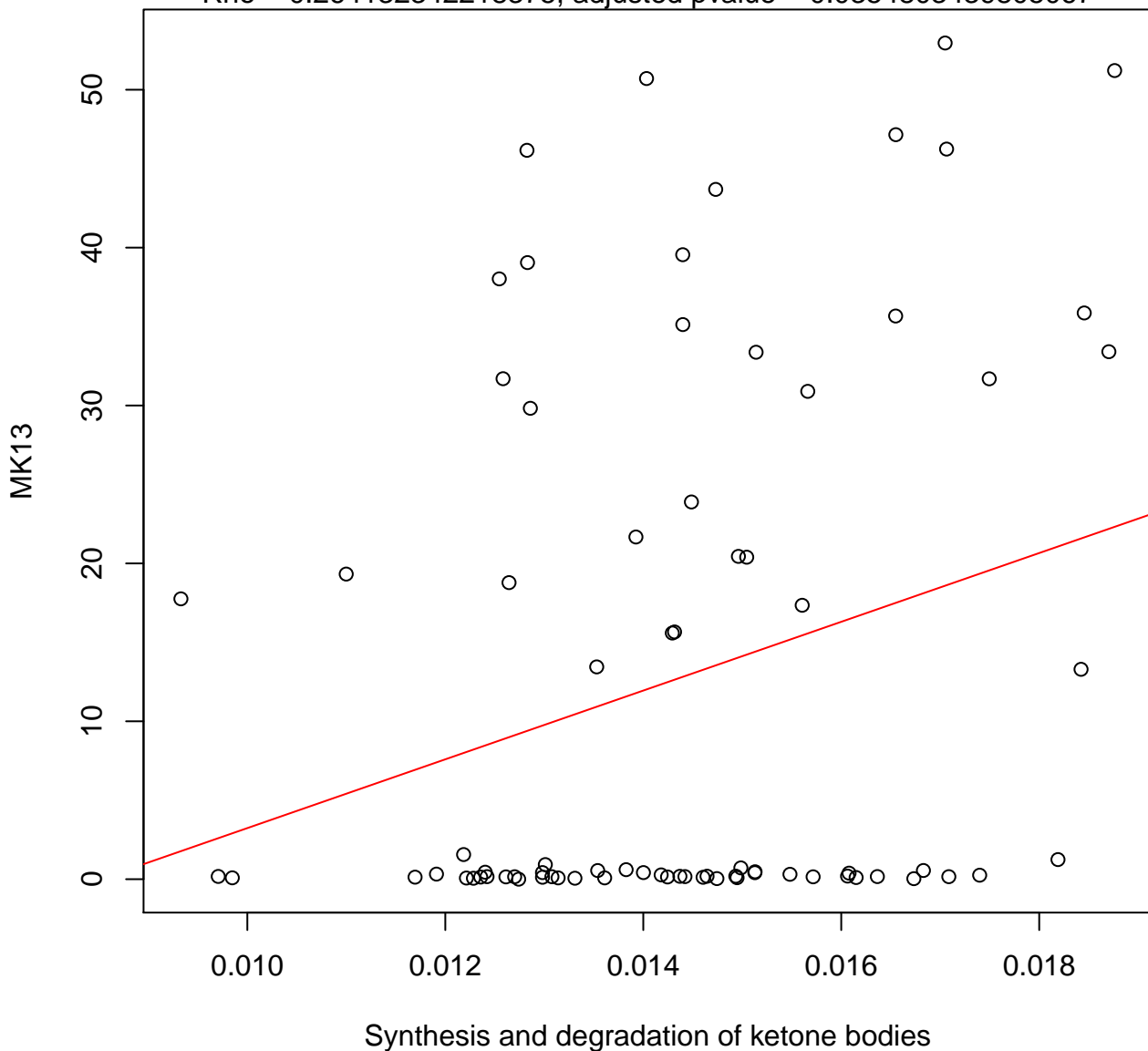
Timepoint 2 , MK13 ~ Steroid hormone biosynthesis

Rho = -0.436211395268079 , adjusted pvalue = 0.000186284248307262



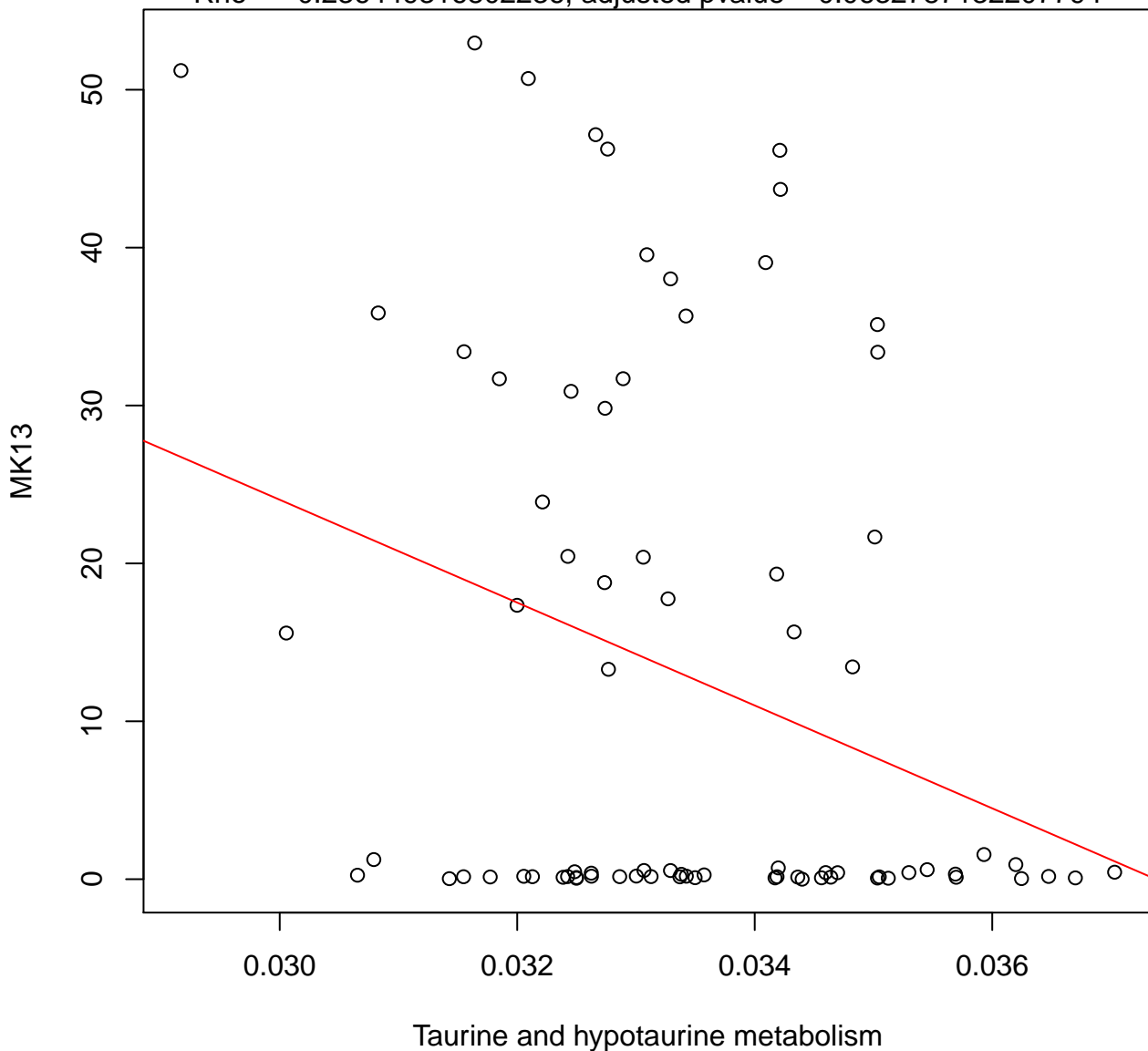
Timepoint 2 , MK13 ~ Synthesis and degradation of ketone bodies

Rho = 0.264132342218375, adjusted pvalue = 0.0354803439805067



Timepoint 2 , MK13 ~ Taurine and hypotaurine metabolism

Rho = -0.236449316802236 , adjusted pvalue = 0.0632787132207794



Timepoint 2 , MK13 ~ Various types of N-glycan biosynthesis

Rho = 0.451941792738429, adjusted pvalue = 0.000103364278252677

