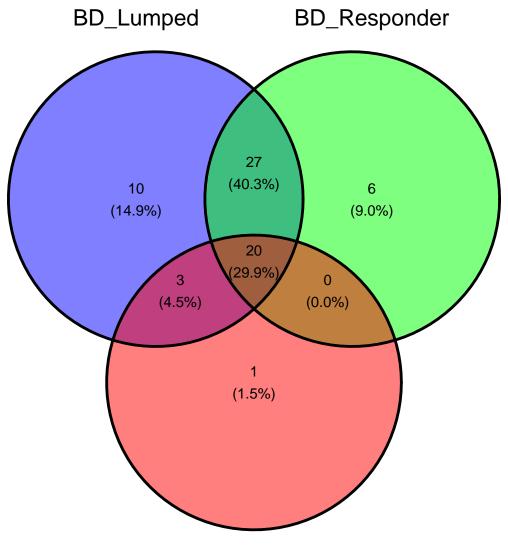
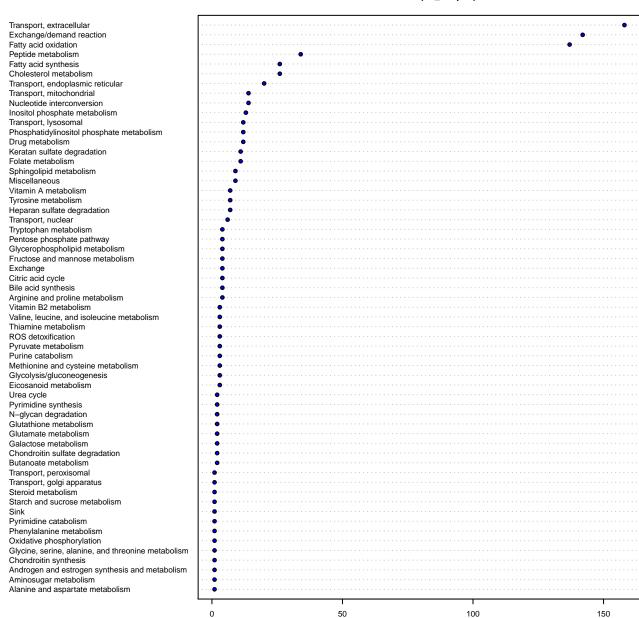
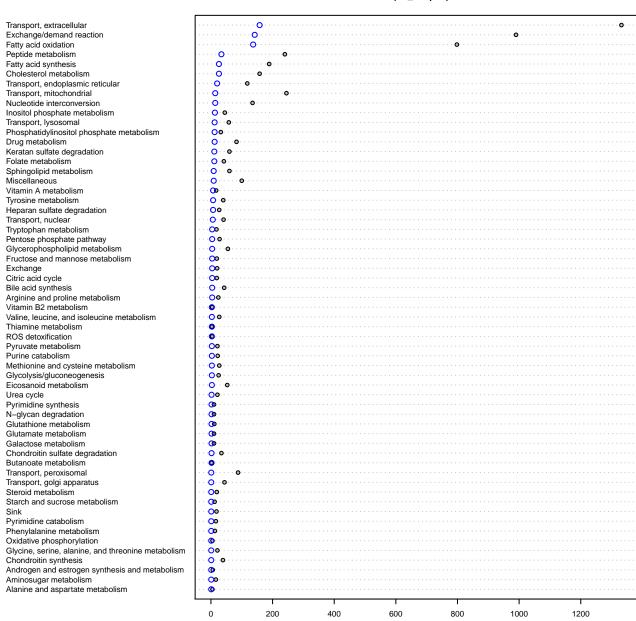


BD\_NonResponder

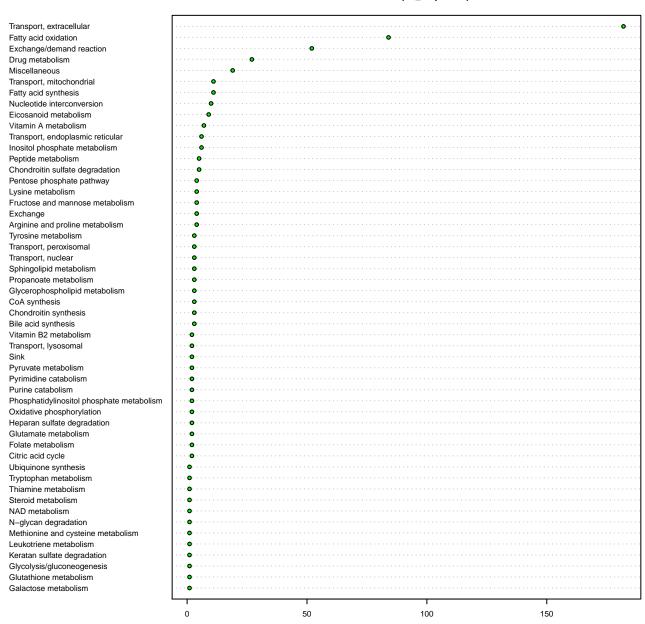


BD\_NonResponder

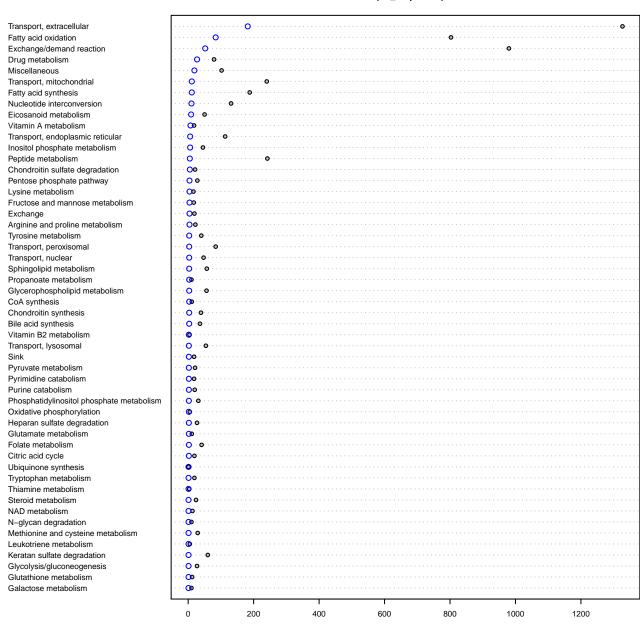




over-representation analysis, bd\_lumped Fatty acid oxidation -Phosphatidylinositol phosphate metabolism Thiamine metabolism Inositol phosphate metabolism Vitamin A metabolism Vitamin B2 metabolism ROS detoxification Folate metabolism Butanoate metabolism Heparan sulfate degradation Transport, lysosomal Exchange/demand reaction Cholesterol metabolism Transport, endoplasmic reticular Keratan sulfate degradation Tryptophan metabolism Fructose and mannose metabolism Citric acid cycle Tyrosine metabolism Exchange Peptide metabolism Sphingolipid metabolism Arginine and proline metabolism Pyrimidine synthesis N-glycan degradation subSystem\_BC Glutamate metabolism Galactose metabolism Fatty acid synthesis Drug metabolism Glutathione metabolism Transport, nuclear Pentose phosphate pathway Oxidative phosphorylation Alanine and aspartate metabolism Pyruvate metabolism Purine catabolism Androgen and estrogen synthesis and metabolism Transport, extracellular Transport, mitochondrial Nucleotide interconversion Miscellaneous Glycerophospholipid metabolism Bile acid synthesis Valine, leucine, and isoleucine metabolism Methionine and cysteine metabolism Glycolysis/gluconeogenesis Eicosanoid metabolism Urea cycle Chondroitin sulfate degradation Transport, peroxisomal Transport, golgi apparatus Steroid metabolism Starch and sucrose metabolism Sink Pyrimidine catabolism Phenylalanine metabolism Glycine, serine, alanine, and threonine metabolism Chondroitin synthesis Aminosugar metabolism 0.25 0.50 0.75 1.00 0.00 hypergeometric significance (fdr.adj.p.value)



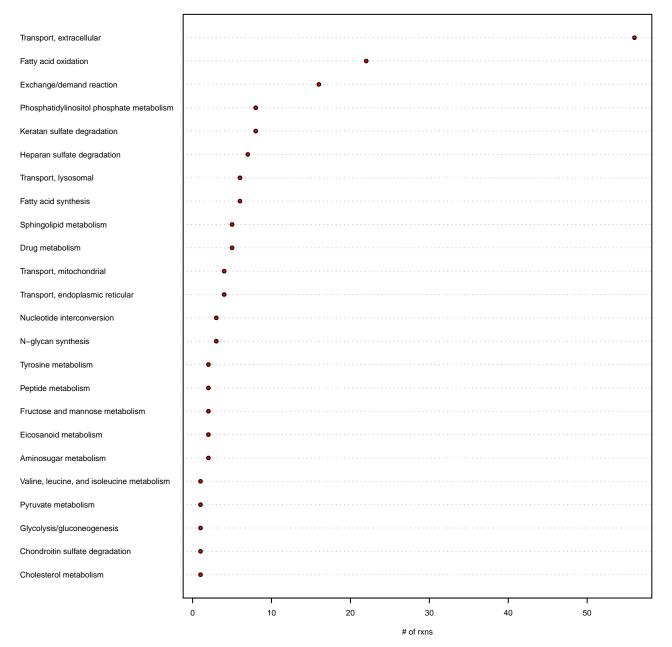
# of rxns



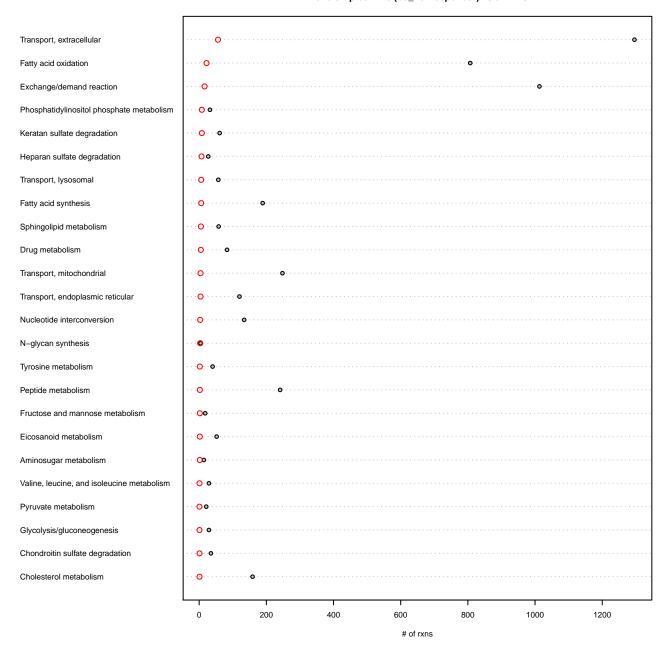
Transport, extracellular -Drug metabolism Vitamin A metabolism -Miscellaneous · Fatty acid oxidation · Eicosanoid metabolism Chondroitin sulfate degradation Lysine metabolism Fructose and mannose metabolism Propanoate metabolism CoA synthesis Vitamin B2 metabolism Oxidative phosphorylation Exchange Ubiquinone synthesis Arginine and proline metabolism Inositol phosphate metabolism Pentose phosphate pathway Glutamate metabolism Thiamine metabolism Leukotriene metabolism Exchange/demand reaction · subSystem\_BRC Transport, mitochondrial Fatty acid synthesis Nucleotide interconversion · Transport, endoplasmic reticular Peptide metabolism · Tyrosine metabolism Transport, peroxisomal Transport, nuclear Sphingolipid metabolism Glycerophospholipid metabolism · Chondroitin synthesis Bile acid synthesis Transport, lysosomal Pyruvate metabolism Pyrimidine catabolism Purine catabolism · Phosphatidylinositol phosphate metabolism Heparan sulfate degradation Folate metabolism Citric acid cycle · Tryptophan metabolism Steroid metabolism NAD metabolism -N-glycan degradation Methionine and cysteine metabolism Keratan sulfate degradation Glycolysis/gluconeogenesis Glutathione metabolism · Galactose metabolism 0.25 0.50 1.00 0.00 0.75 hypergeometric significance (fdr.adj.p.value)

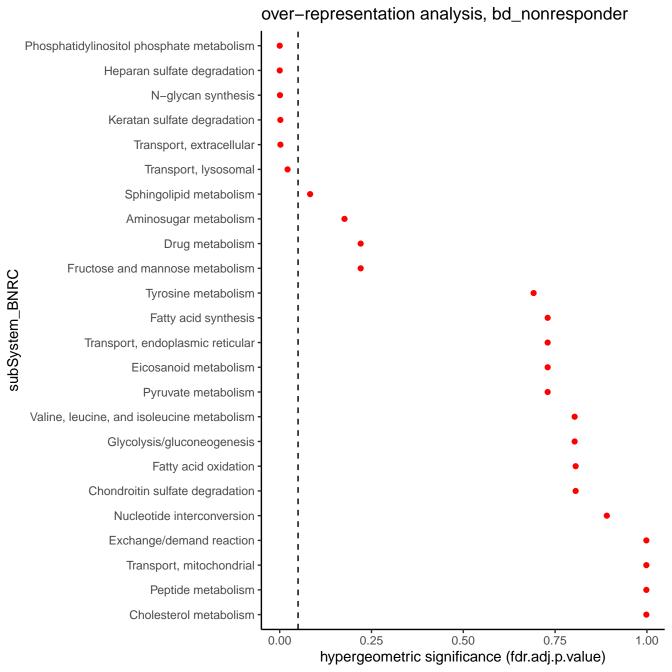
over-representation analysis, bd\_responder

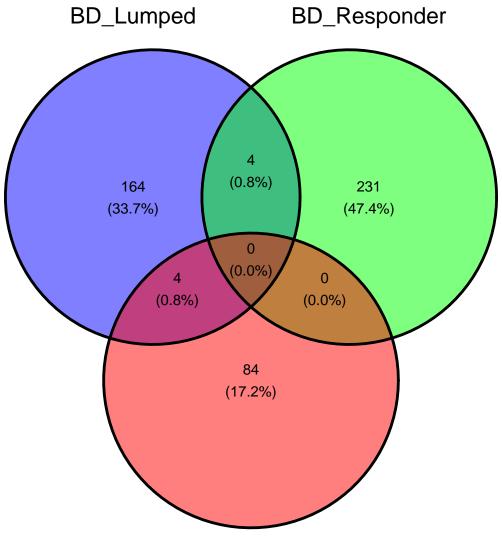
## # of disrupted rxns (bd\_nonresponder)



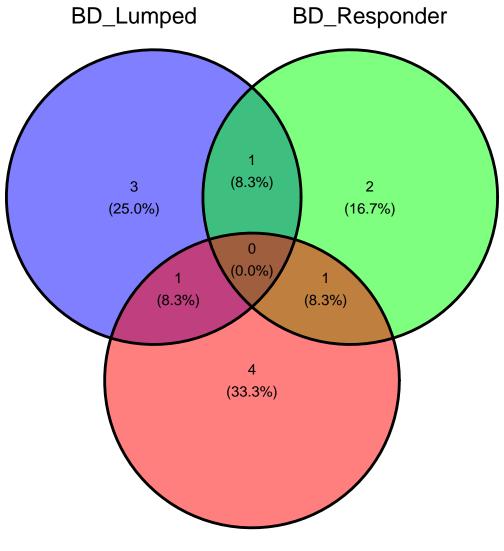
## # of disrupted rxns (bd\_nonresponder) vs all rxns







BD\_NonResponder



BD\_NonResponder