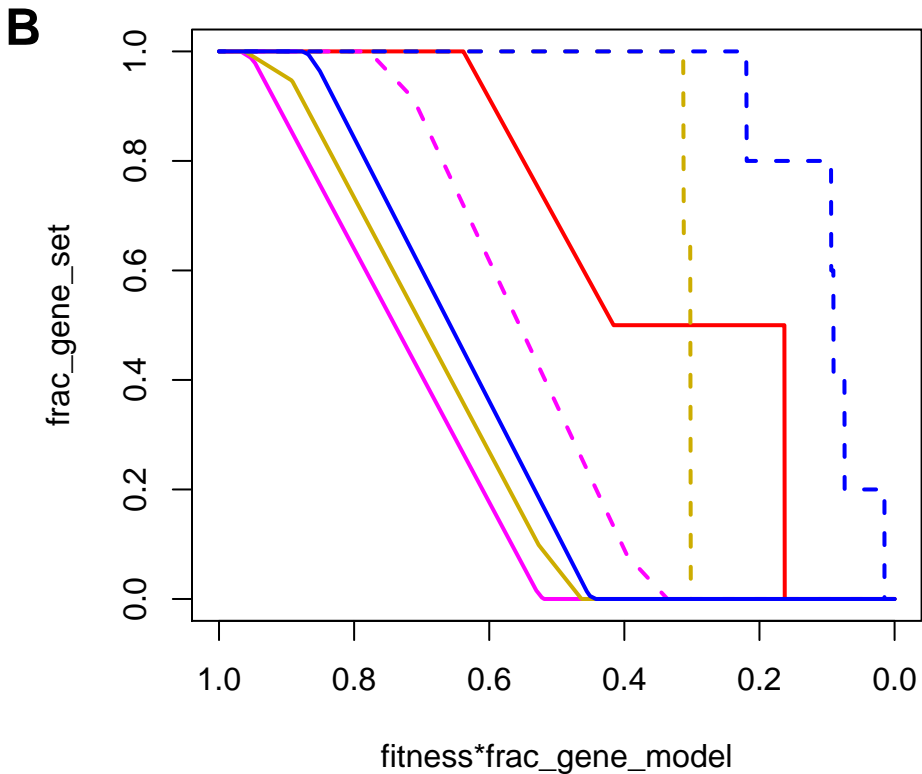
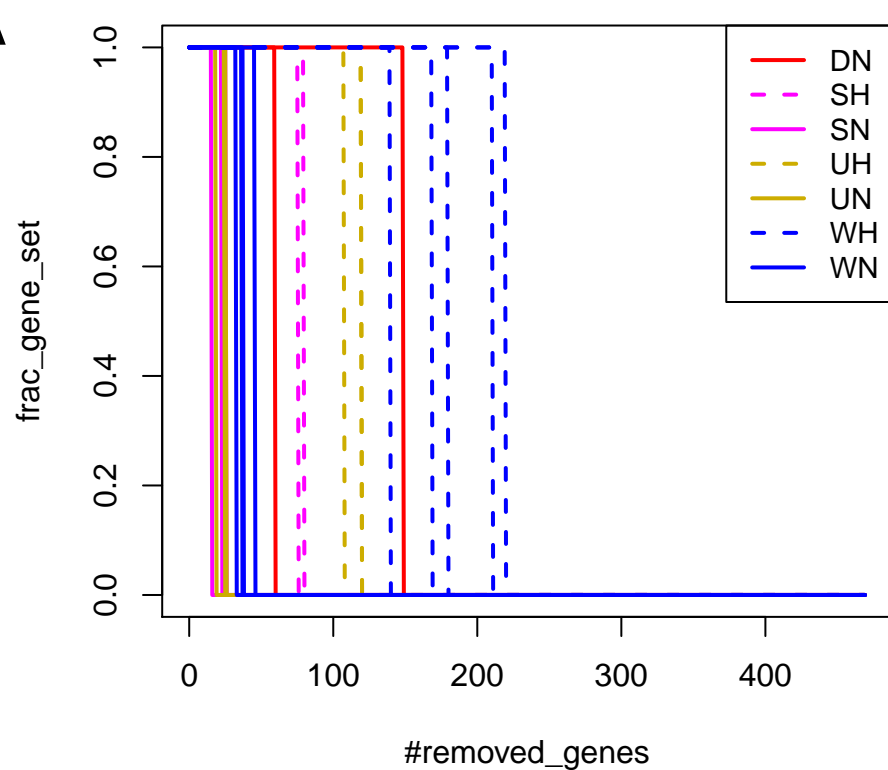


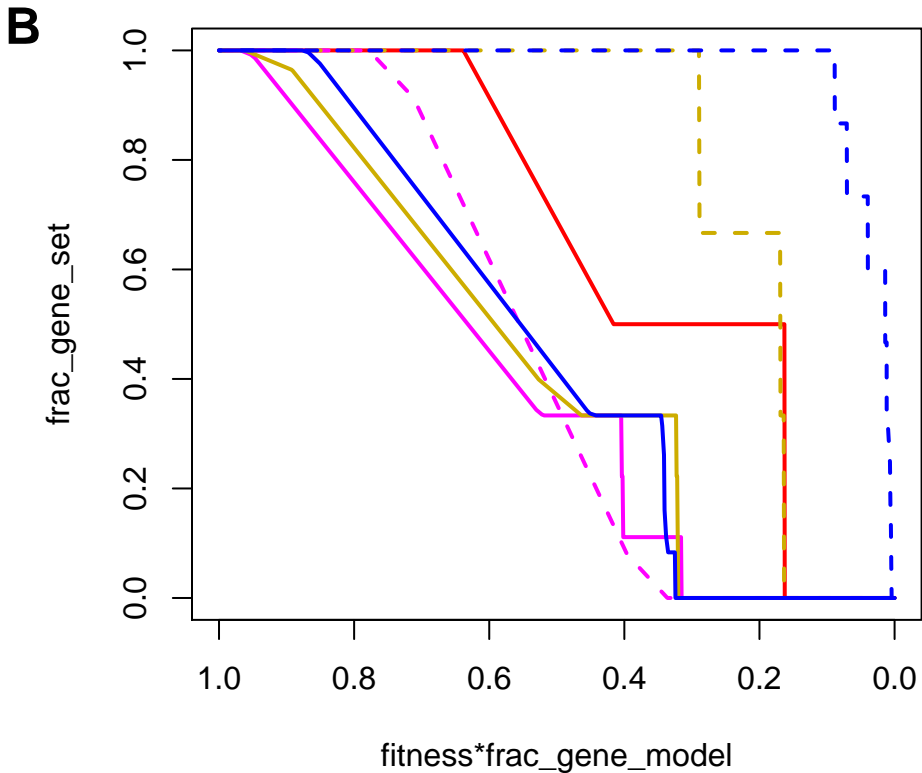
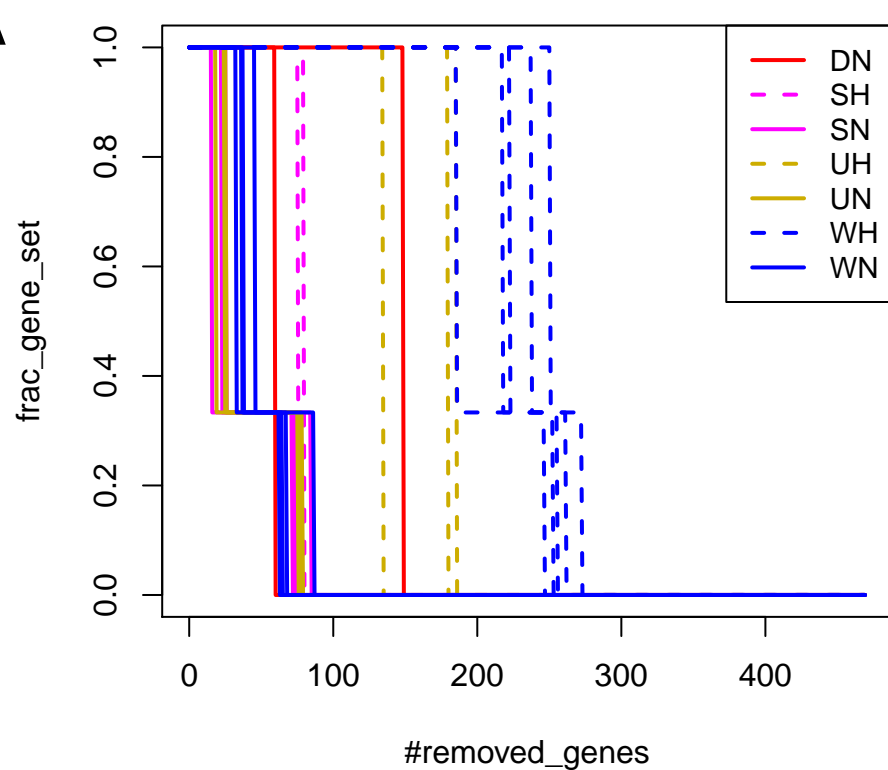
GO:0019878, lysine bp via aminoadipic acid

$E = 0.64$, $p\text{-val} = 0.009$



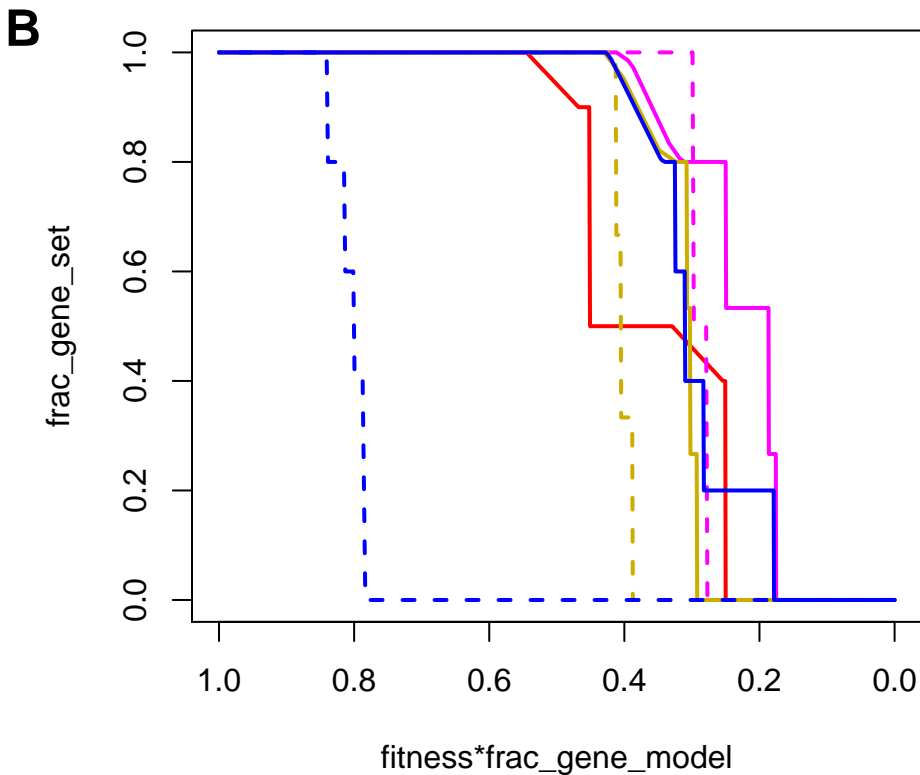
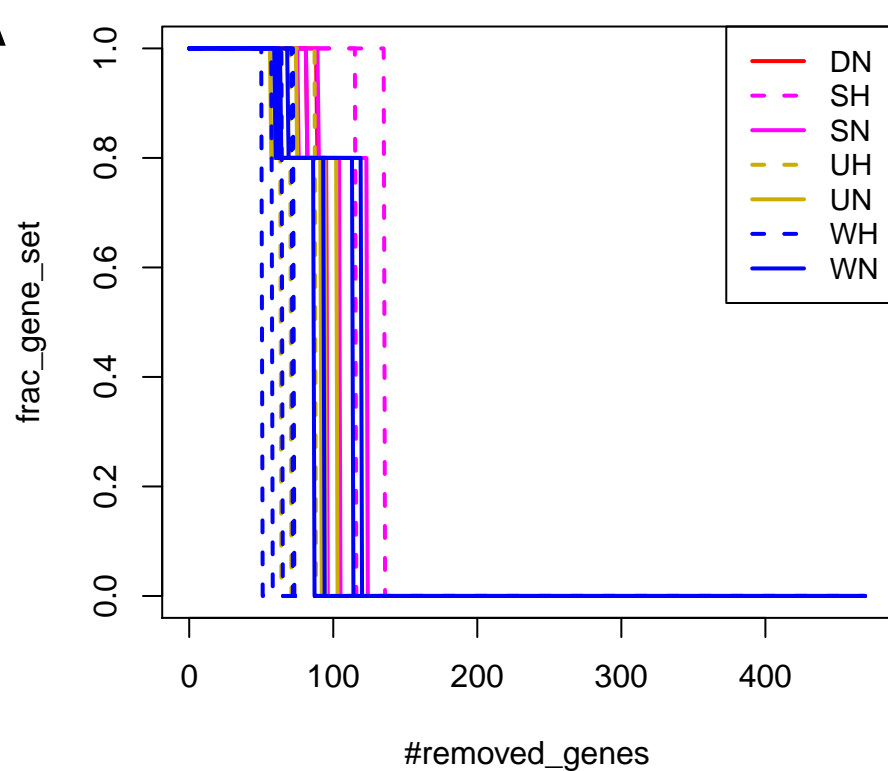
GO:0009098, leucine bp

E = 0.59, p-val = 0.002



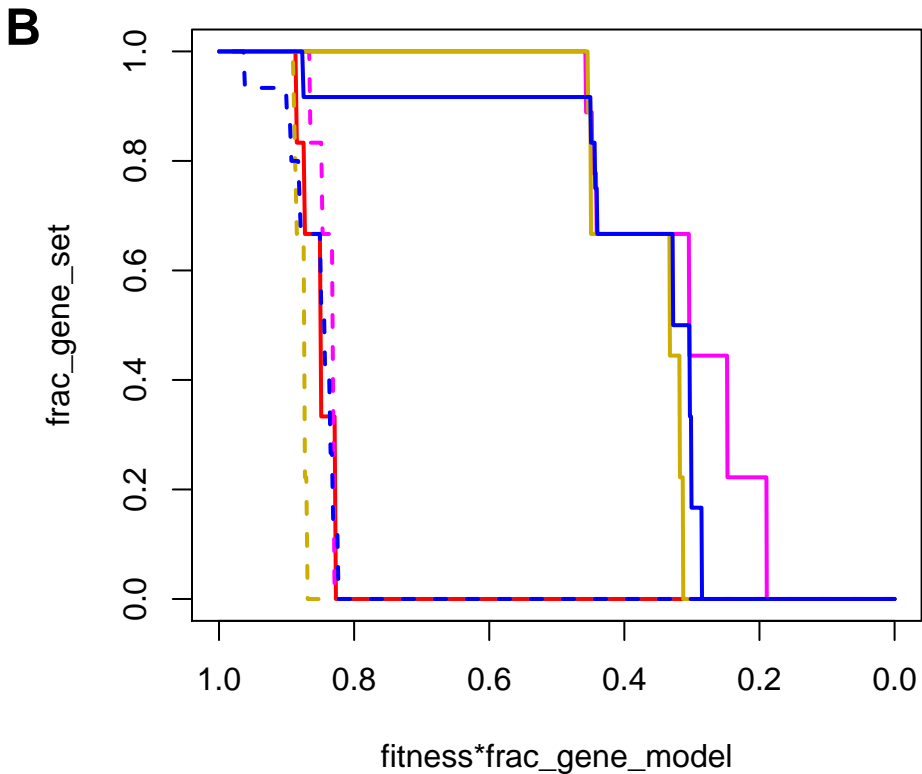
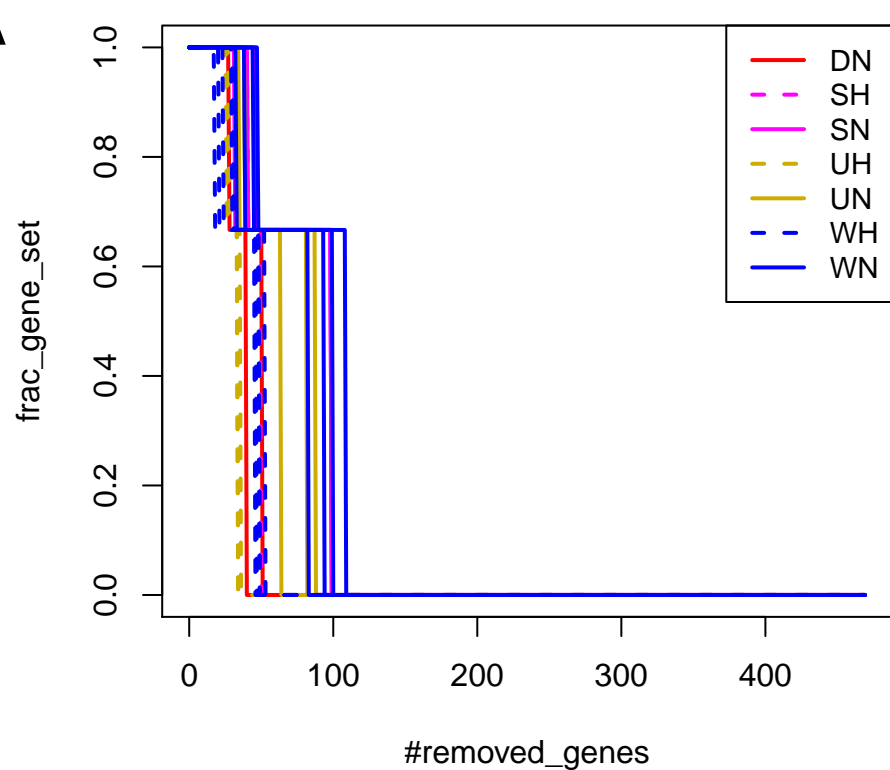
GO:0000162, tryptophan bp

E = 0.57, p-val = 0.002



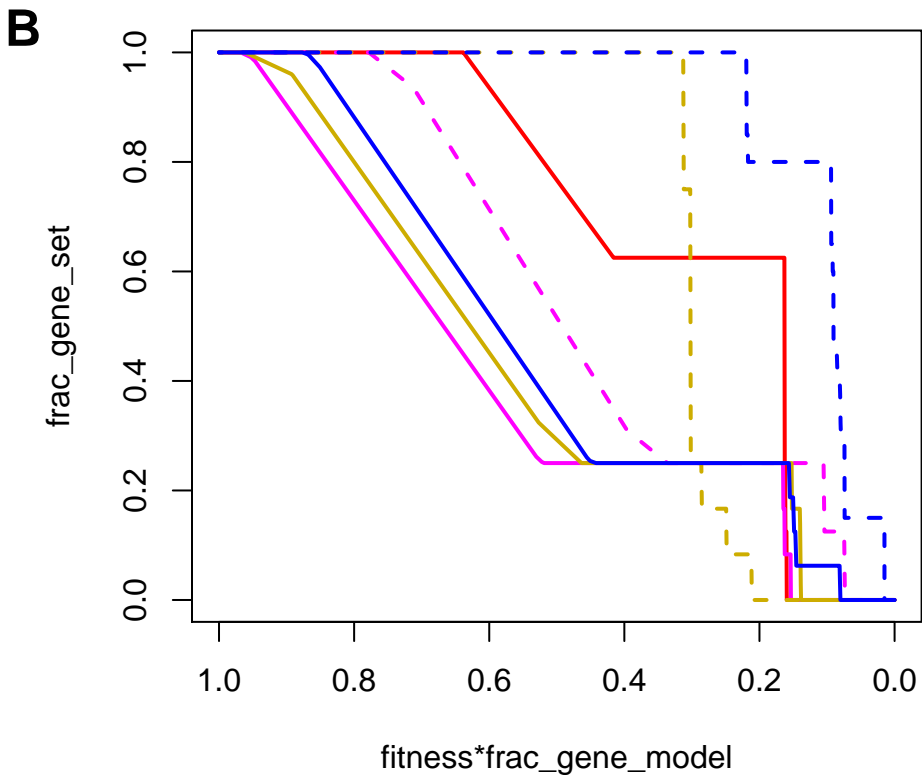
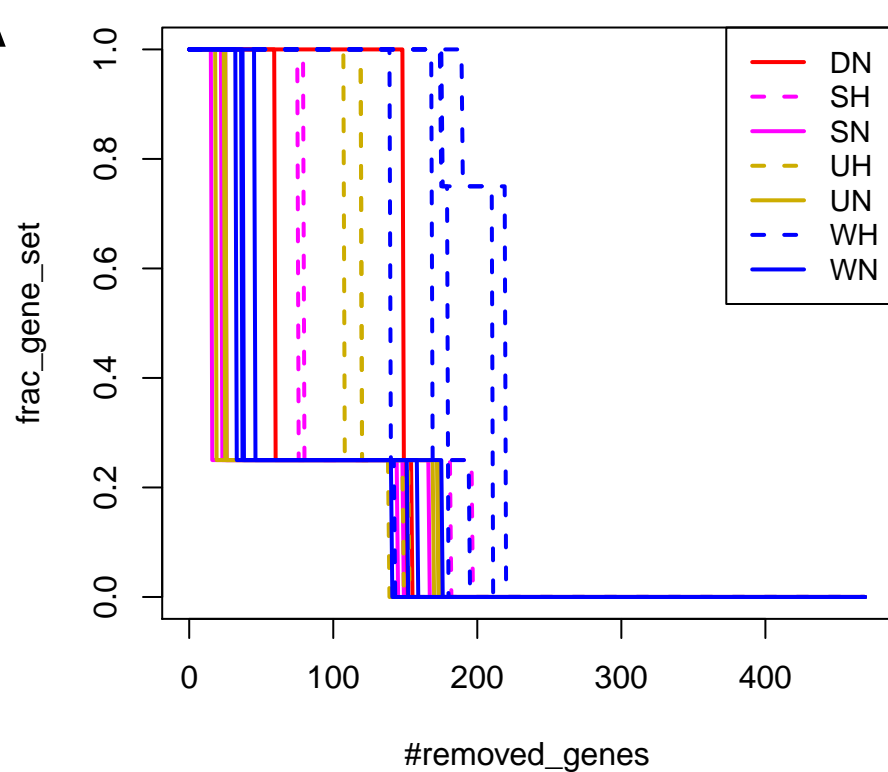
GO:0006772, thiamine mp

E = 0.56, p-val = 0.003



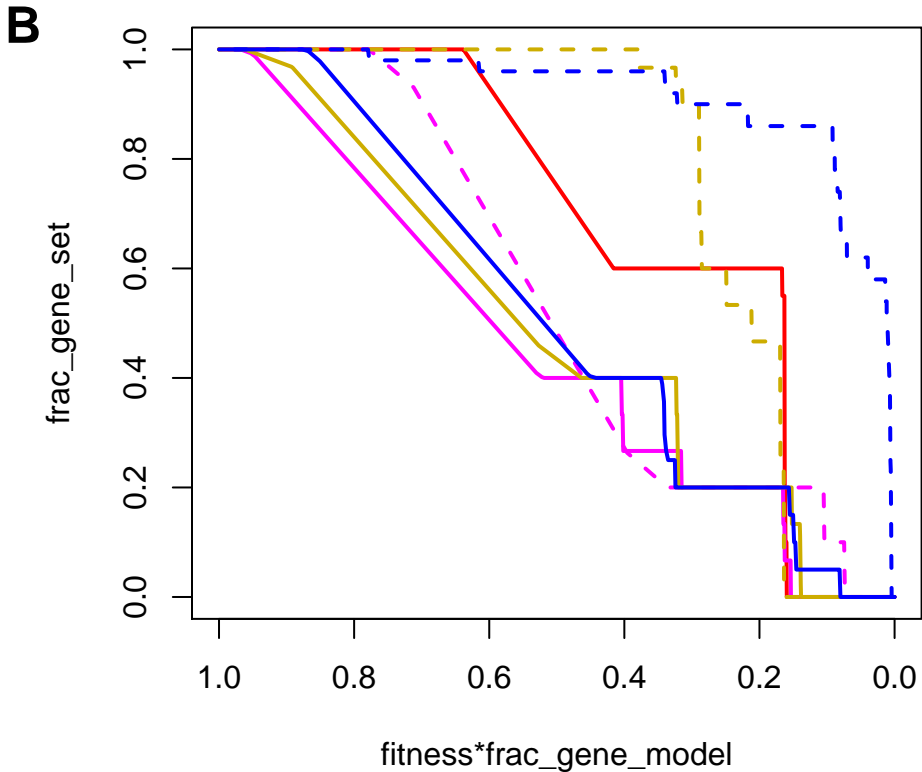
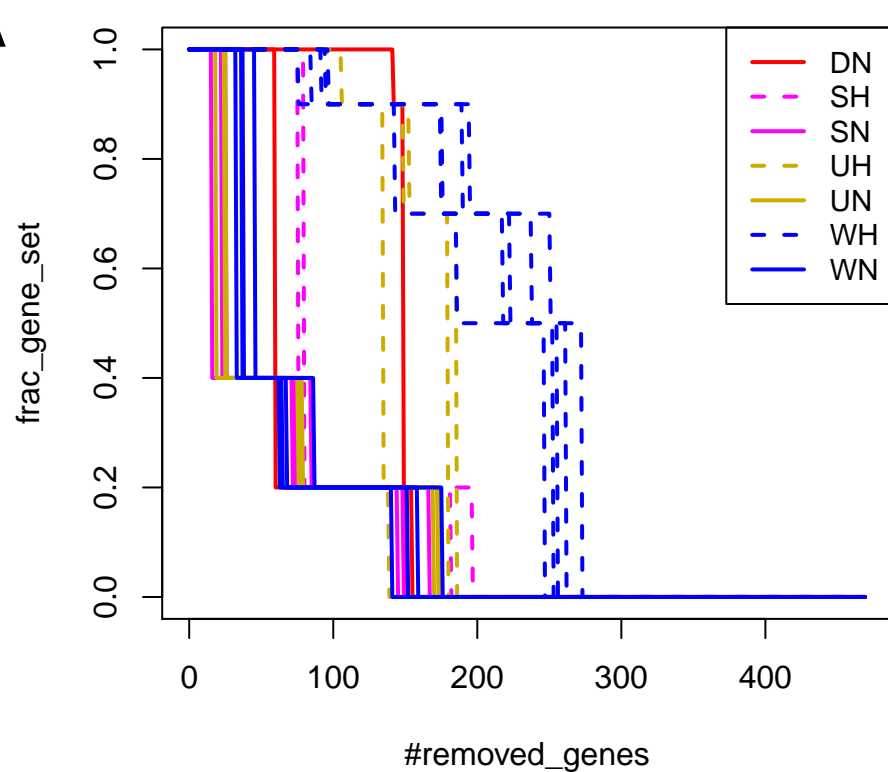
GO:0009085, lysine bp

E = 0.49, p-val = 0.007



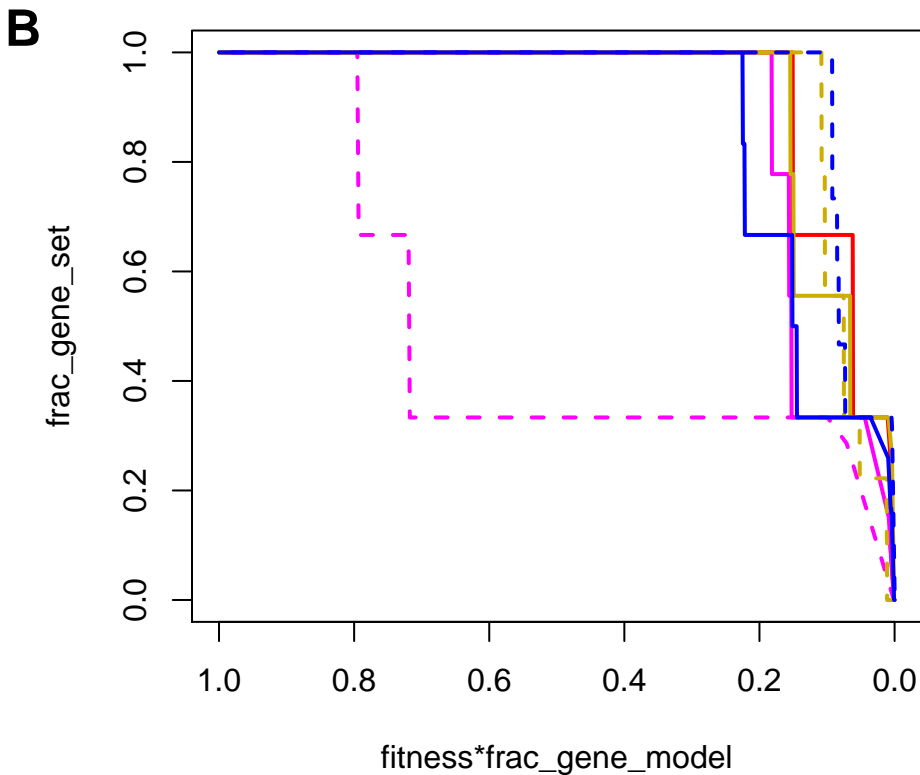
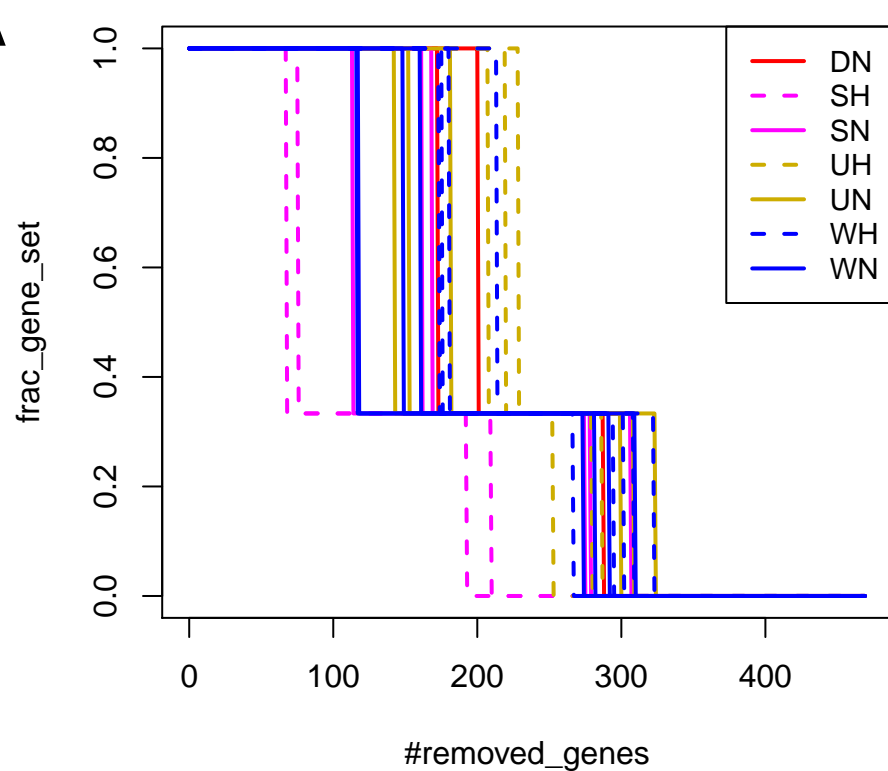
GO:0009082, branched-chain aa bp

$E = 0.47$, $p\text{-val} = 0.002$



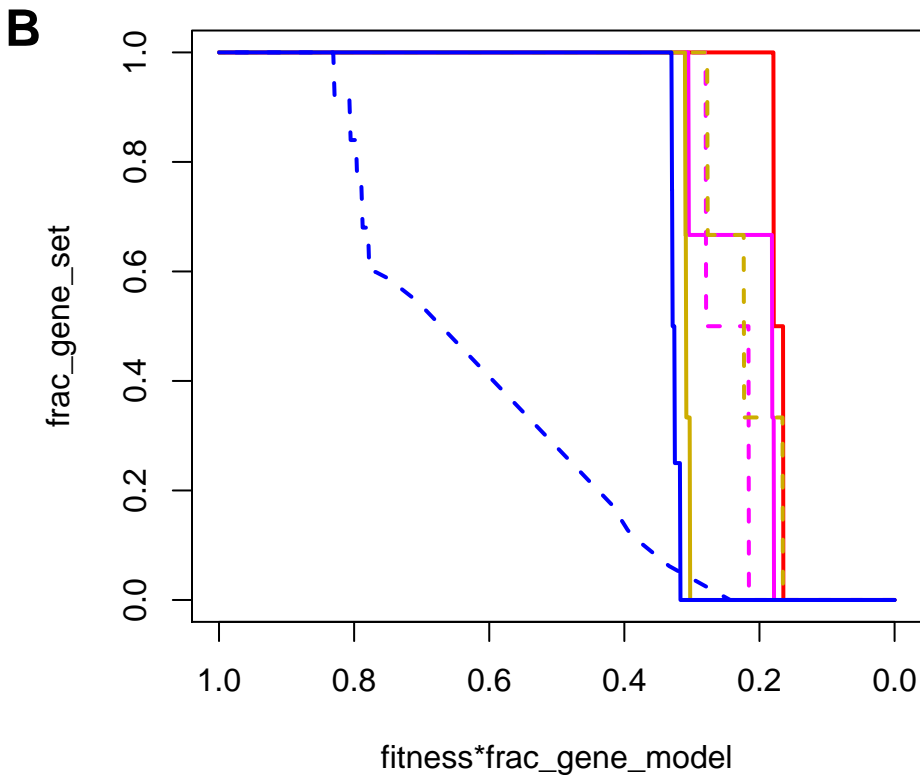
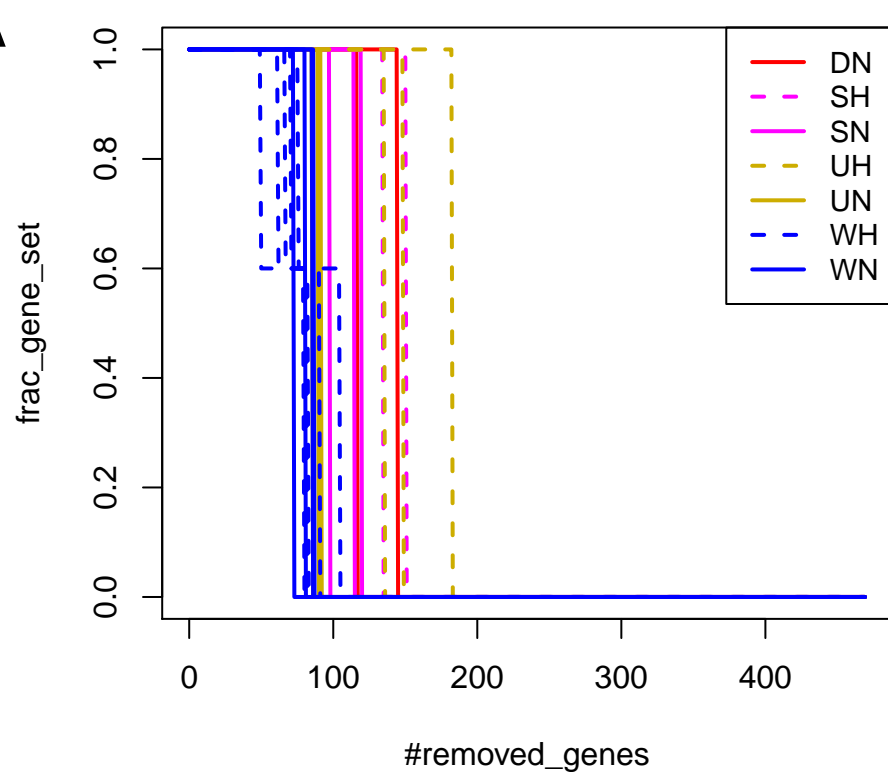
GO:0043649, dicarboxylic acid cp

$E = 0.46$, $p\text{-val} = 0.004$



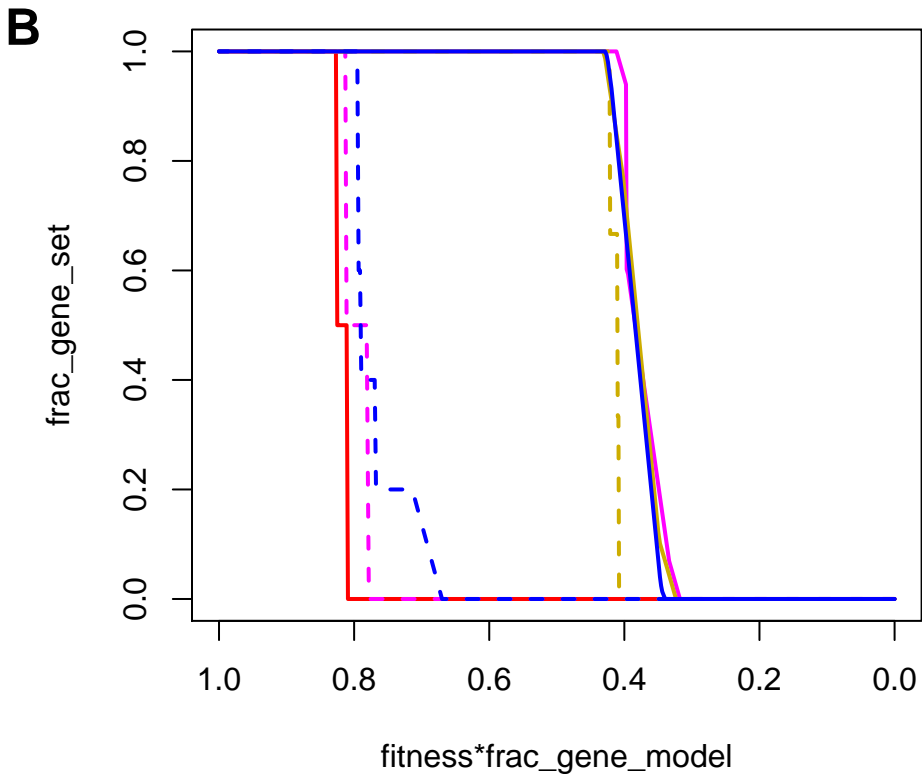
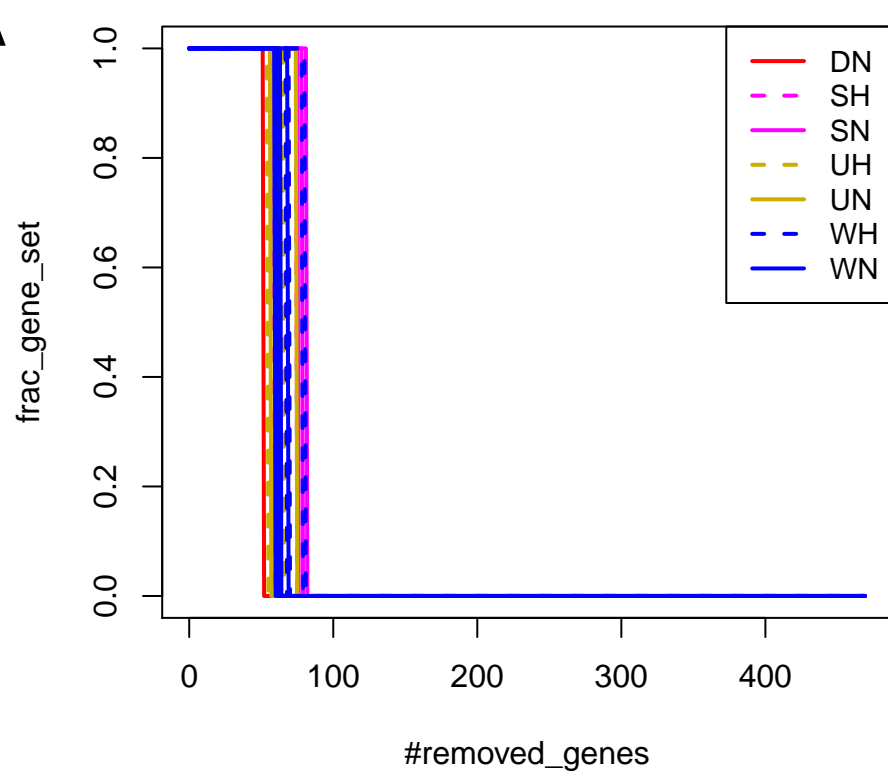
GO:0001676, long-chain fatty acid mp

$E = 0.46$, $p\text{-val} = 0.007$



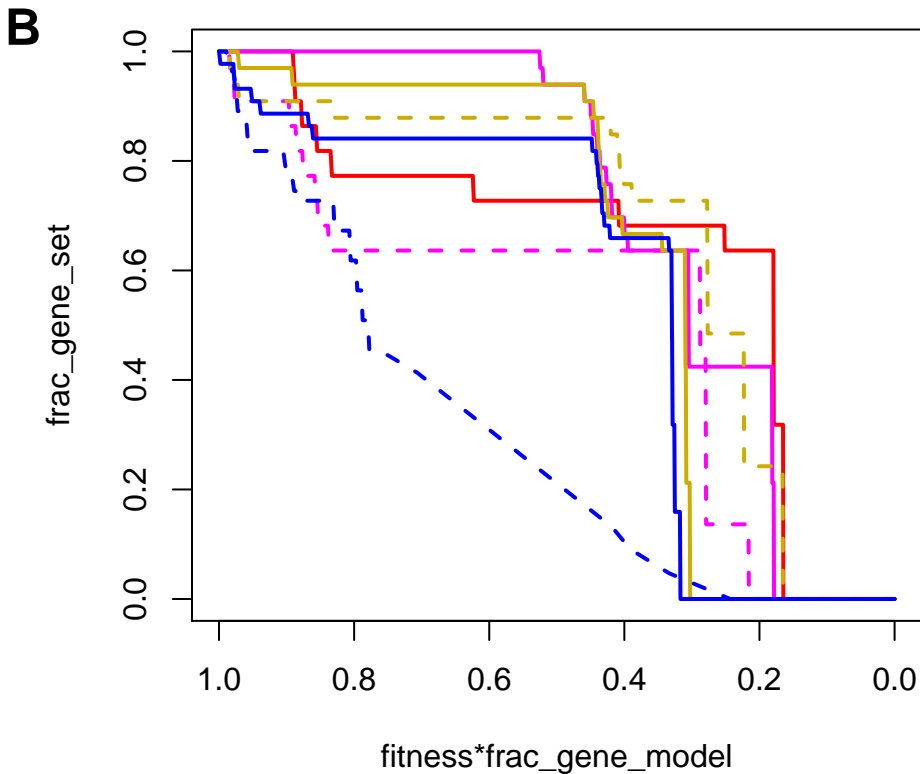
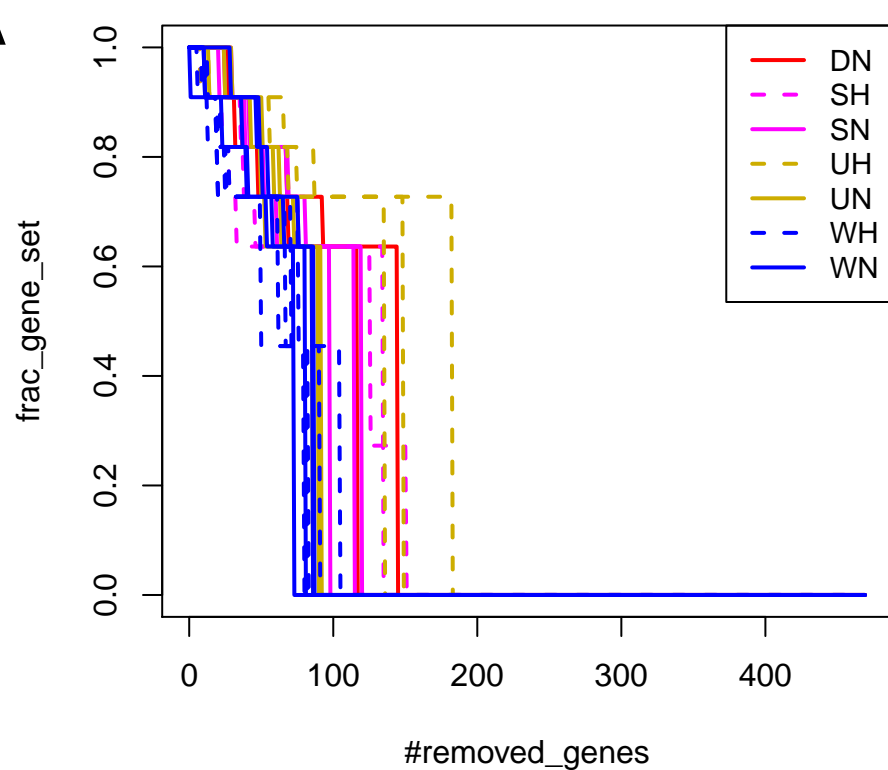
GO:0000105, histidine bp

E = 0.44, p-val = 0.002



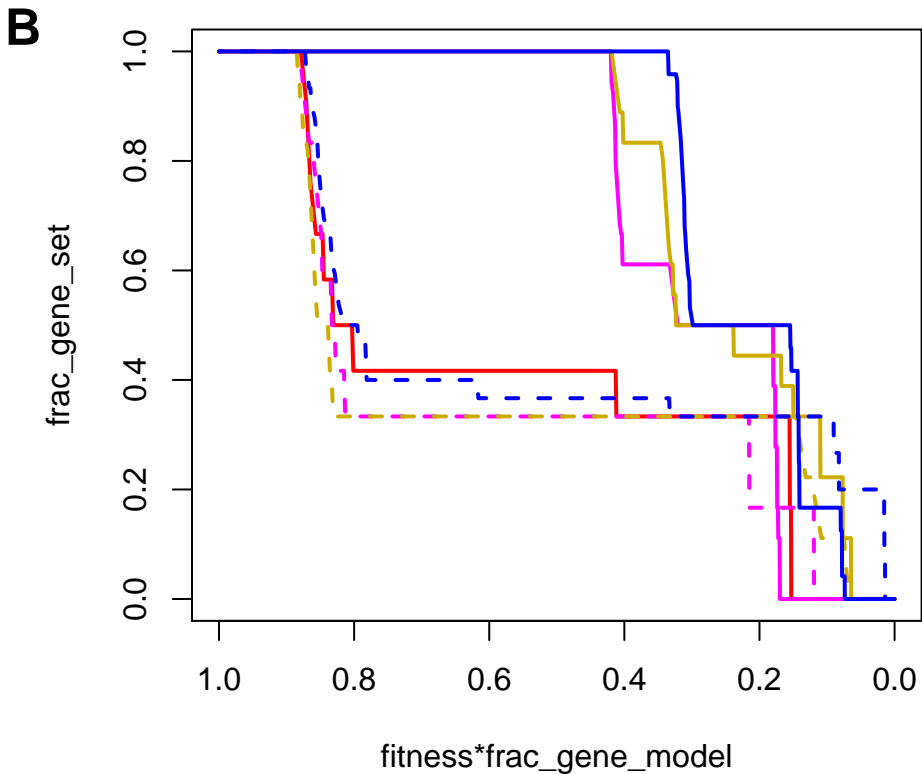
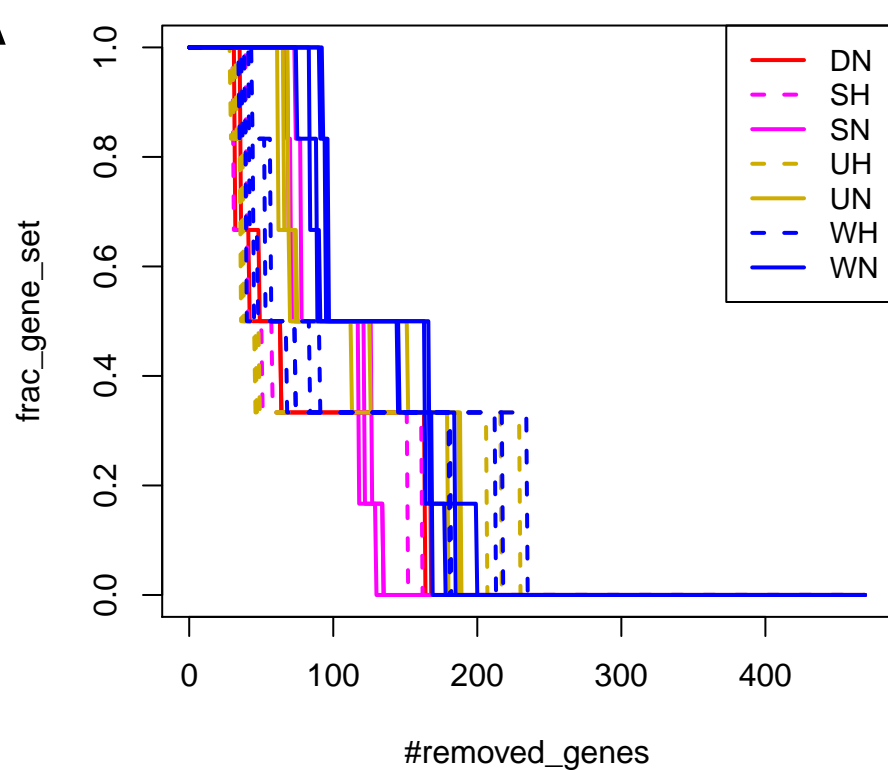
GO:0006635, fatty acid beta-oxidation

$E = 0.41$, $p\text{-val} = 0.007$



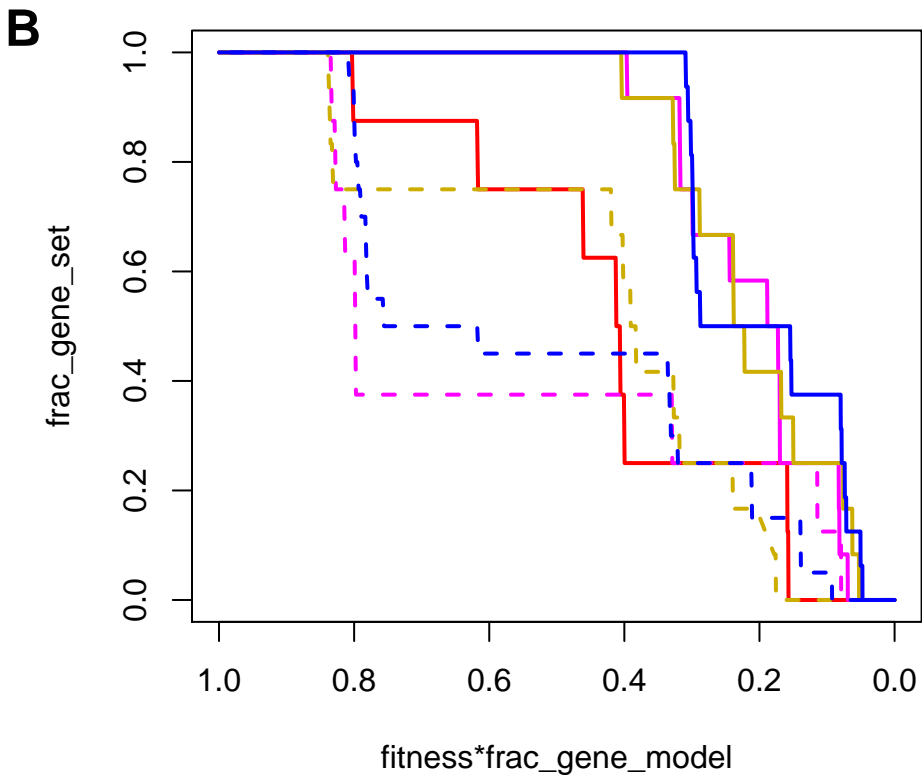
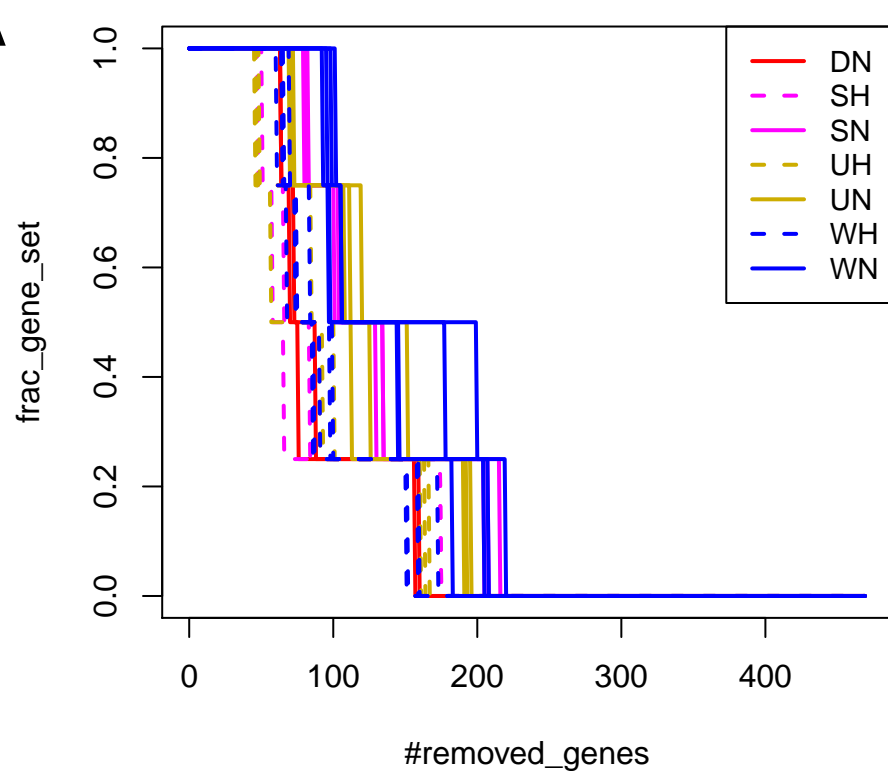
GO:0009221, pyrimidine deoxyribonucleotide bp

$E = 0.4$, $p\text{-val} = 0.01$



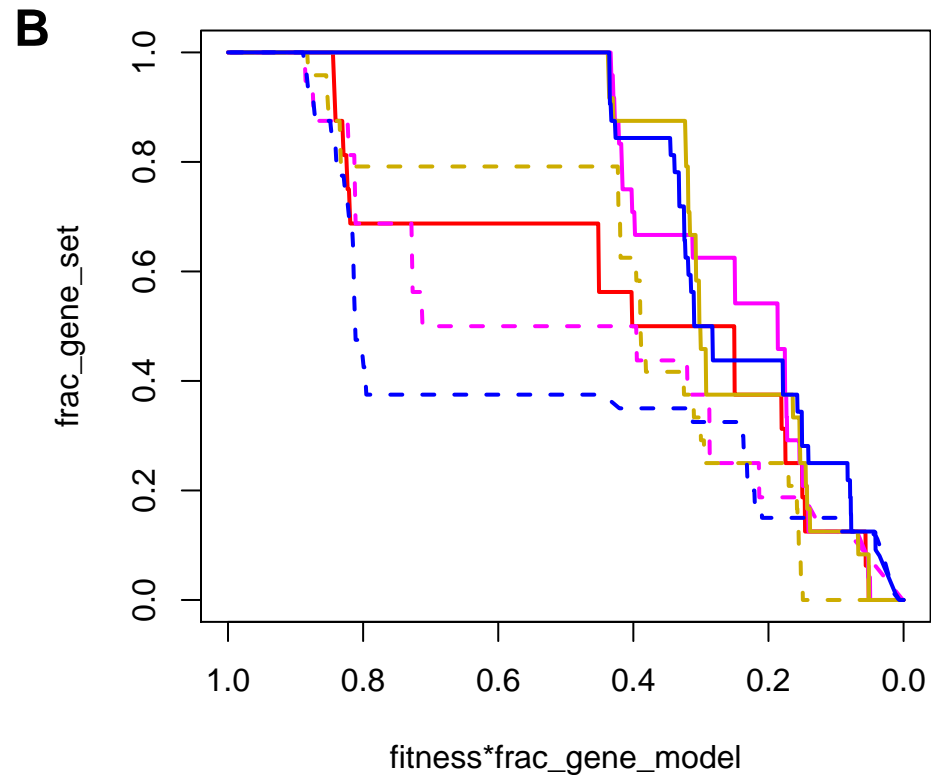
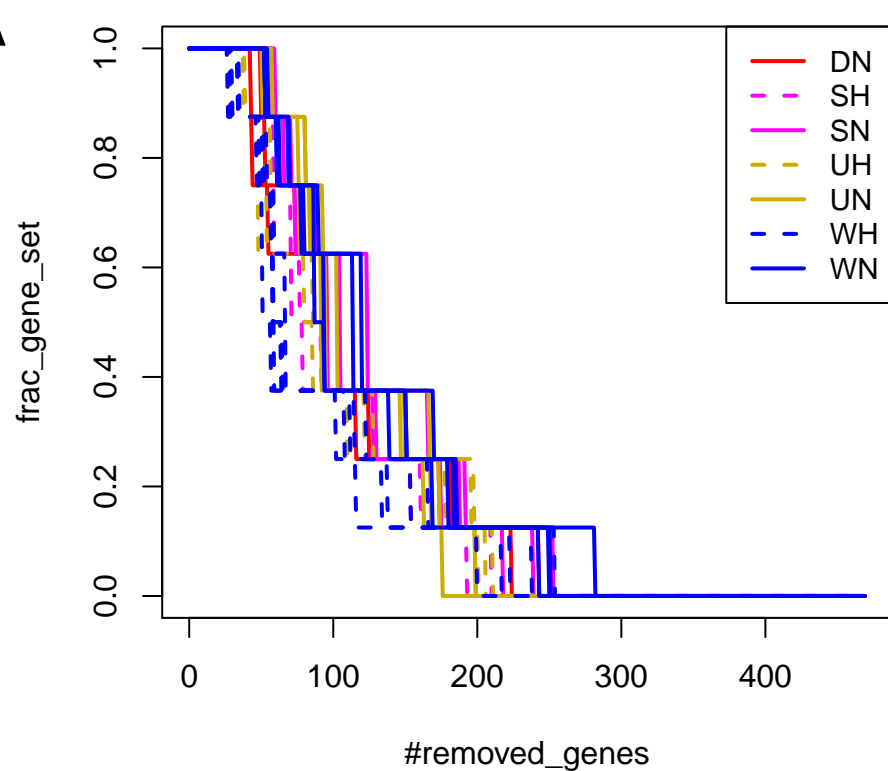
GO:0006195, purine nucleotide cp

E = 0.38, p-val = 0.017



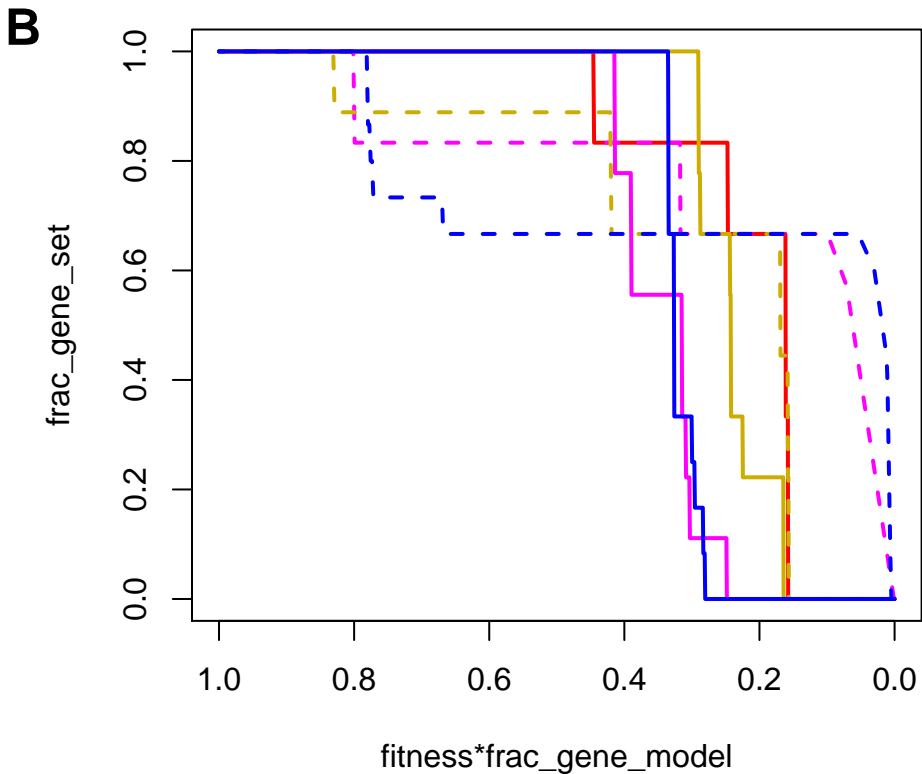
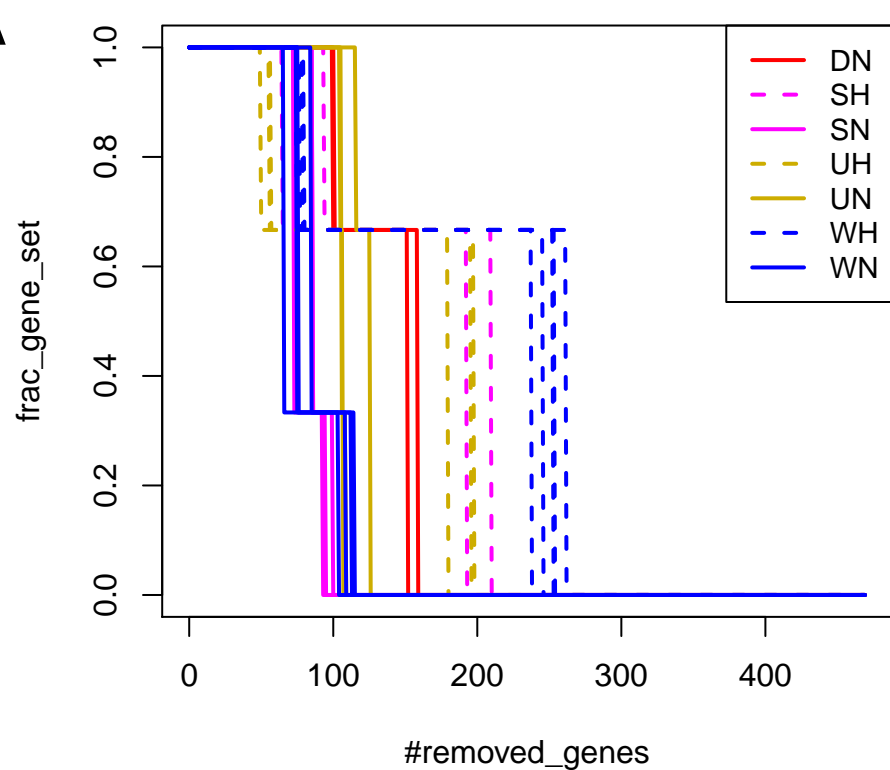
GO:0019674, NAD mp

E = 0.34, p-val = 0.018



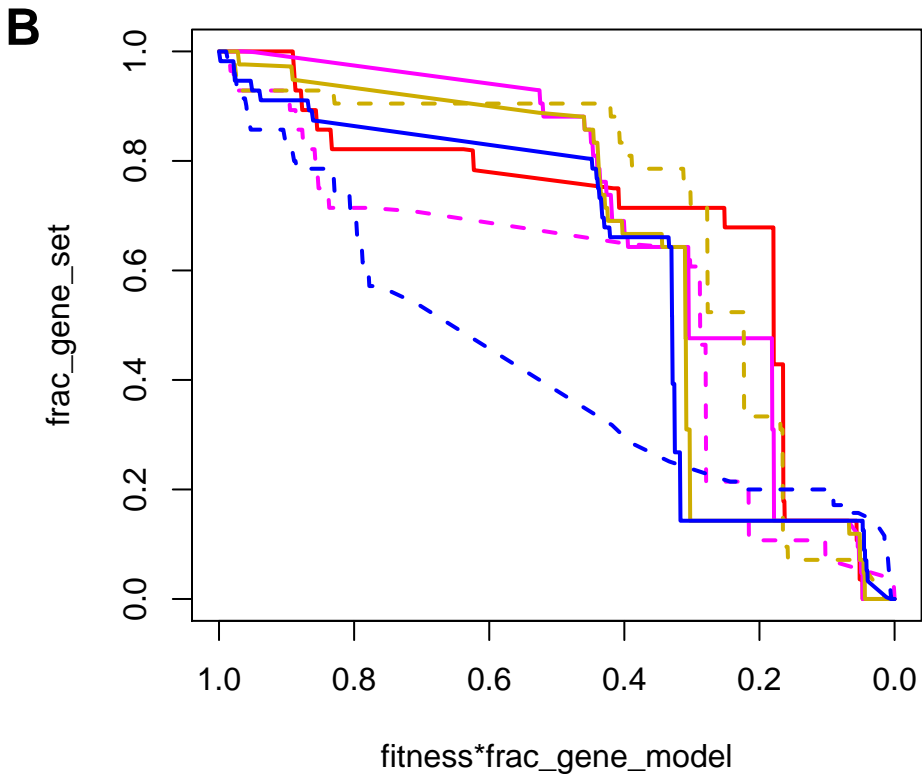
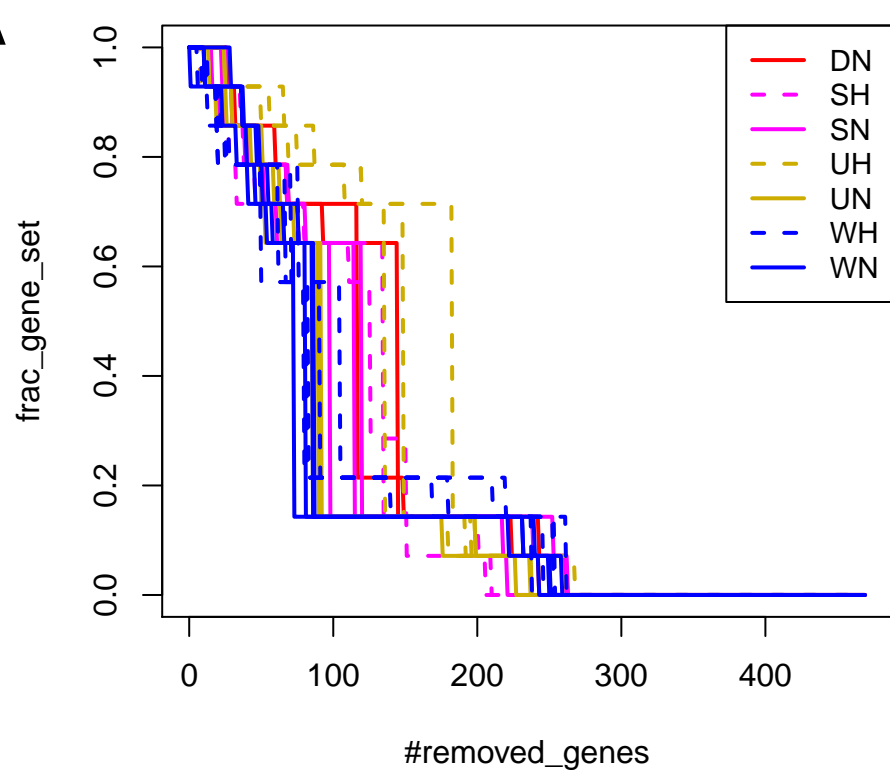
GO:0009071, serine family aa cp

$E = 0.34$, $p\text{-val} = 0.004$



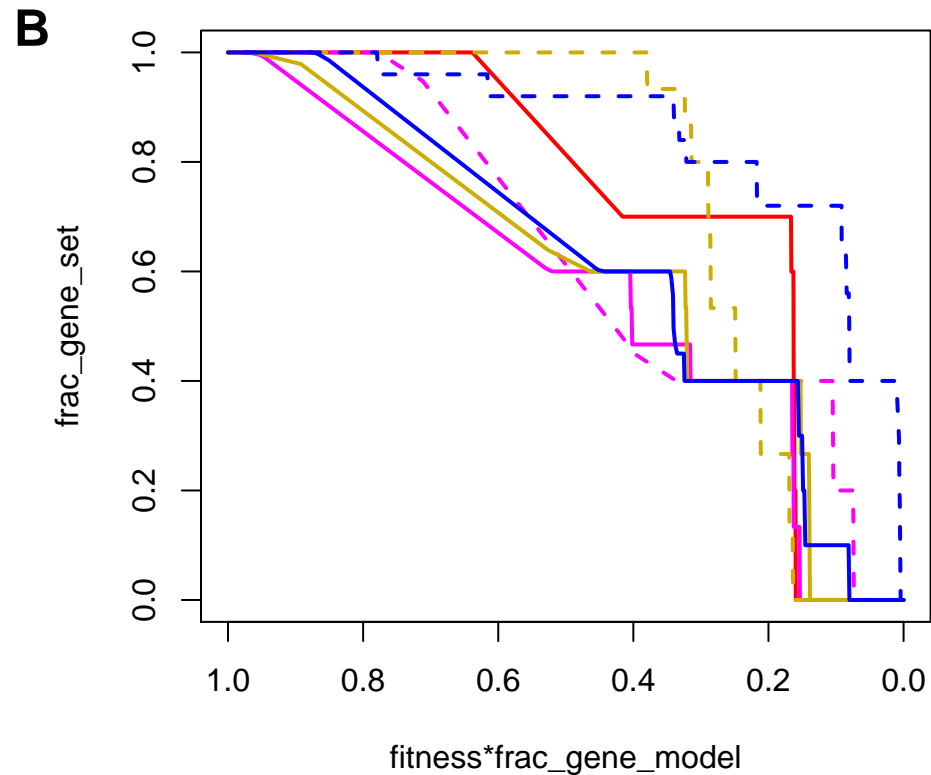
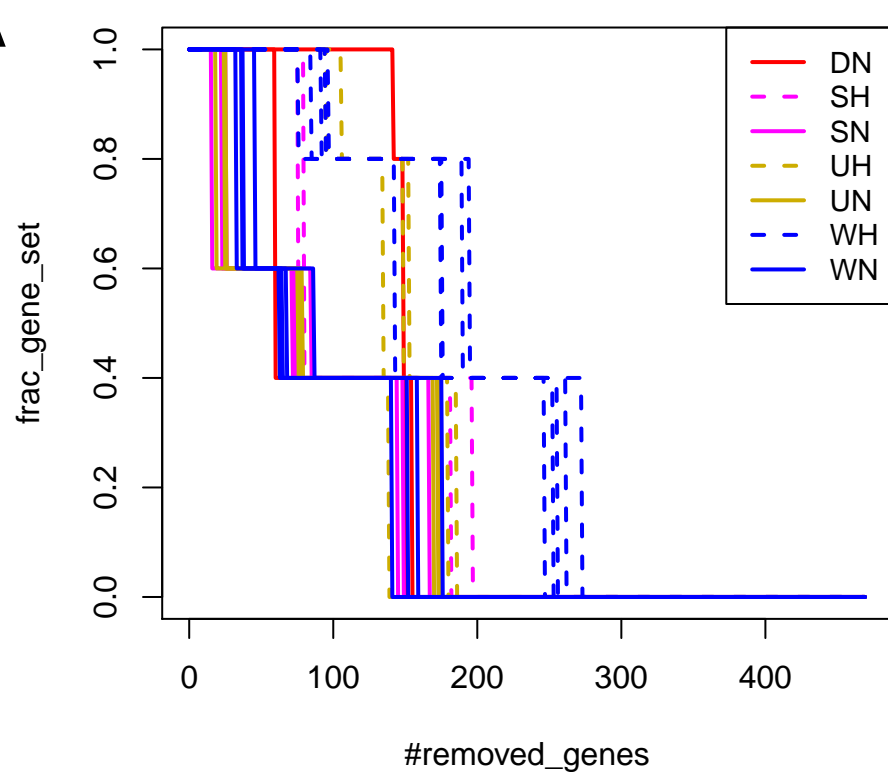
GO:0009062, fatty acid cp

E = 0.3, p-val = 0.015



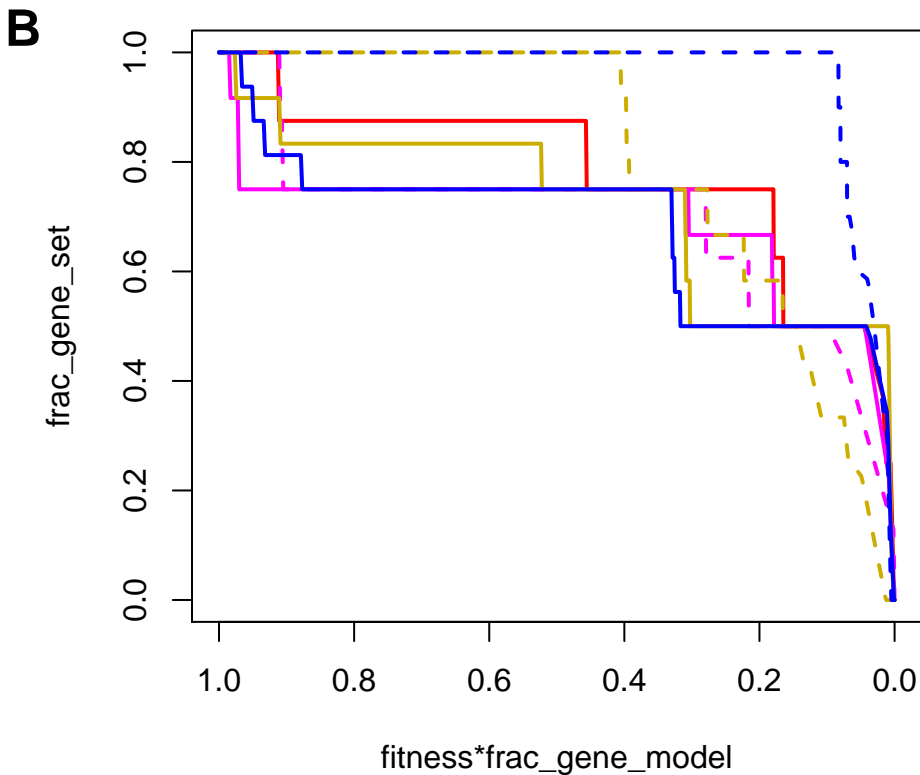
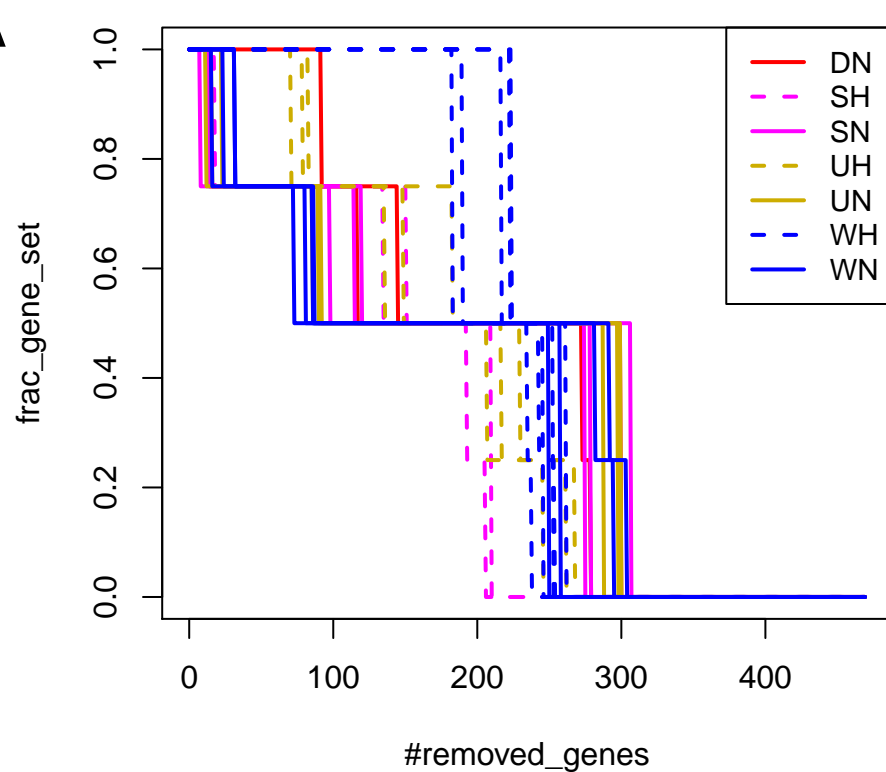
GO:0009097, isoleucine bp

$E = 0.29$, $p\text{-val} = 0.005$



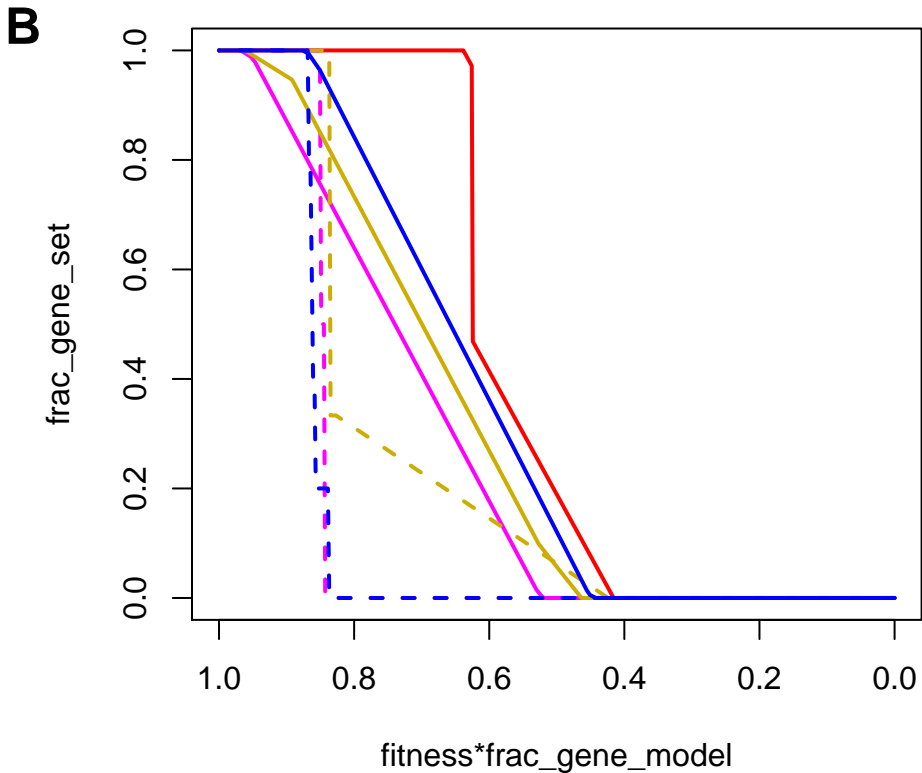
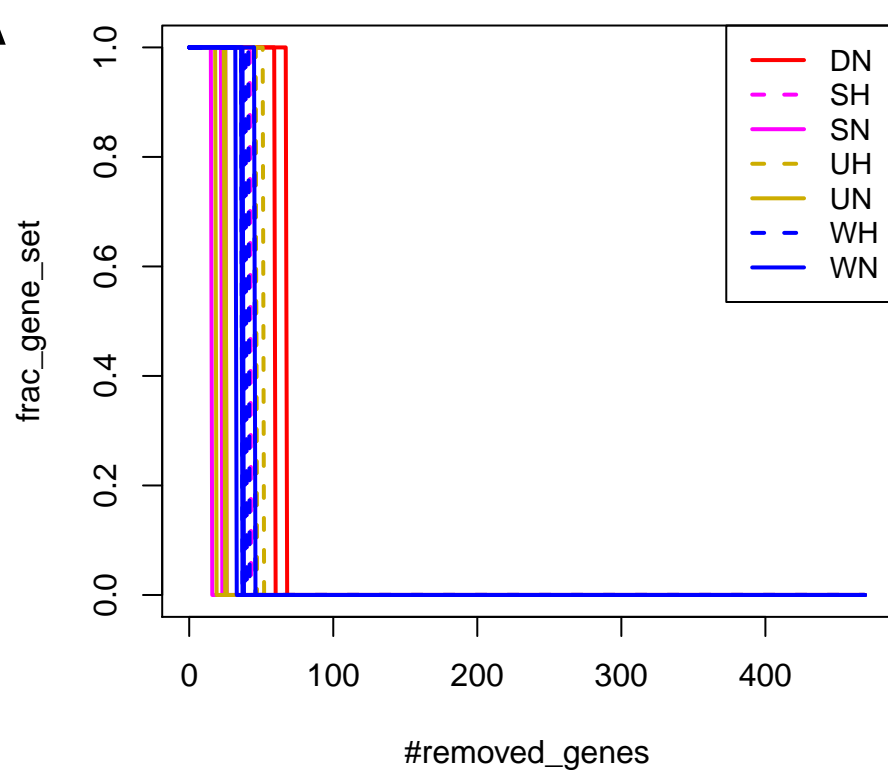
GO:0072593, reactive oxygen species mp

$E = 0.28$, $p\text{-val} = 0.028$



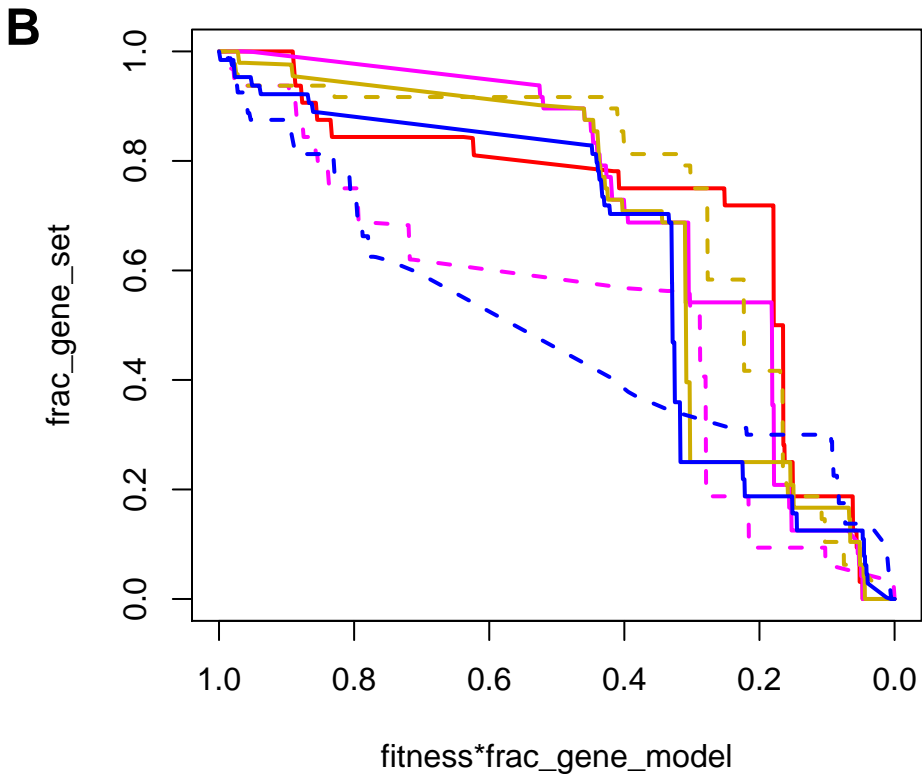
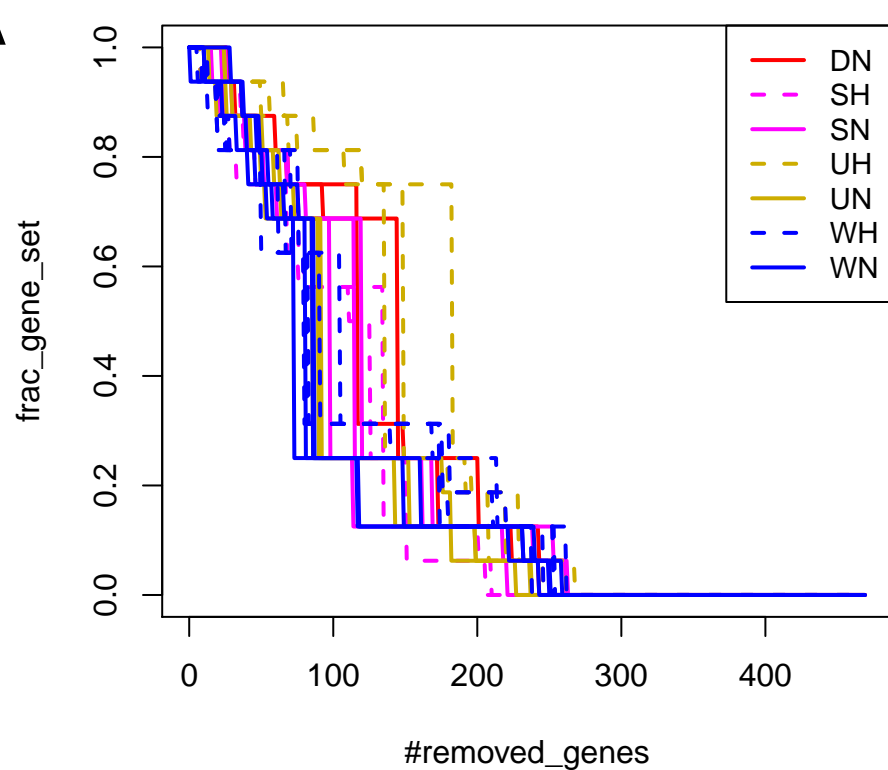
GO:0015937, coenzyme A bp

E = 0.28, p-val = 0.002



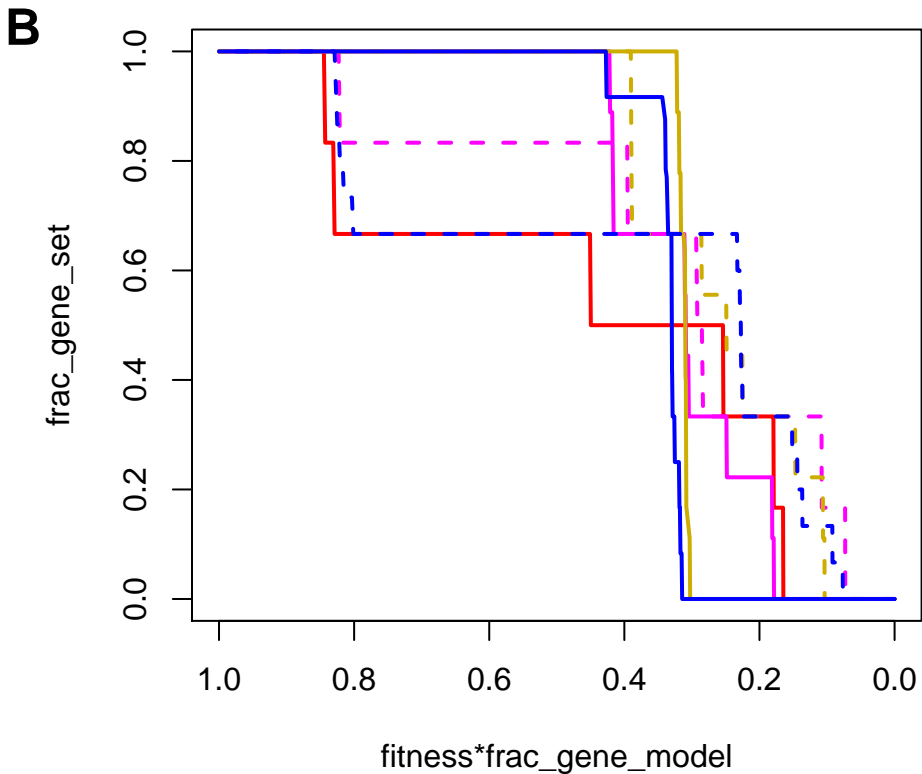
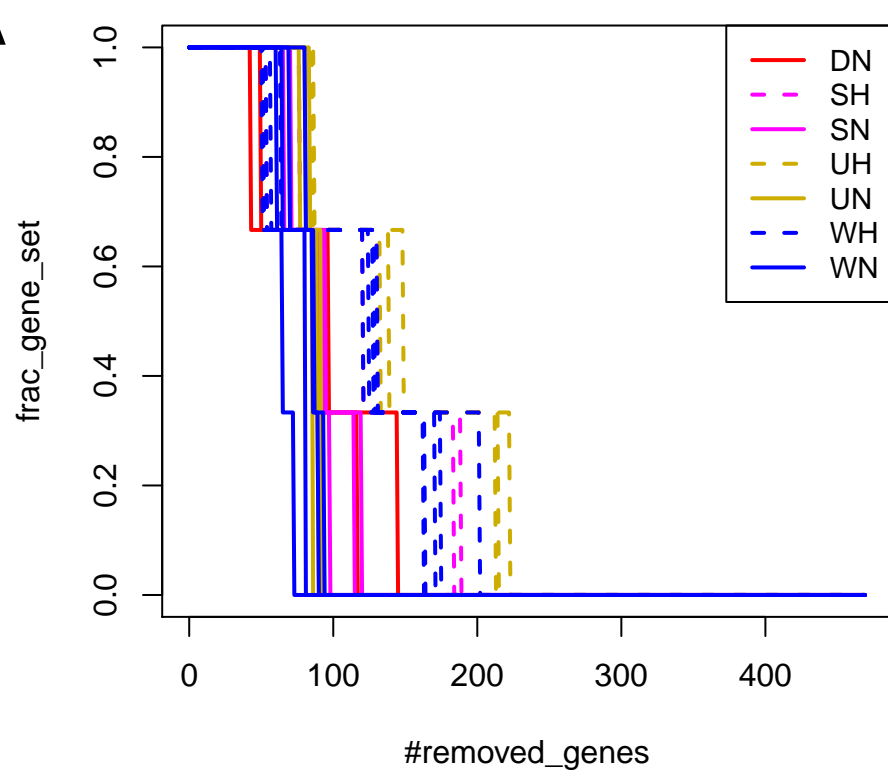
GO:0072329, monocarboxylic acid cp

$E = 0.27$, $p\text{-val} = 0.018$



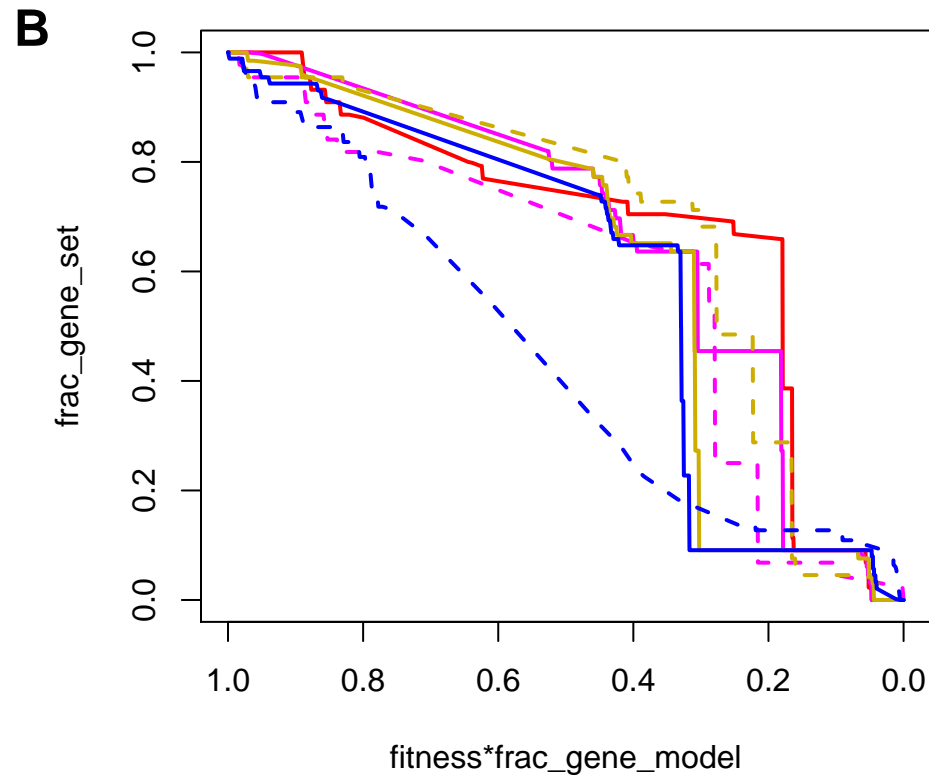
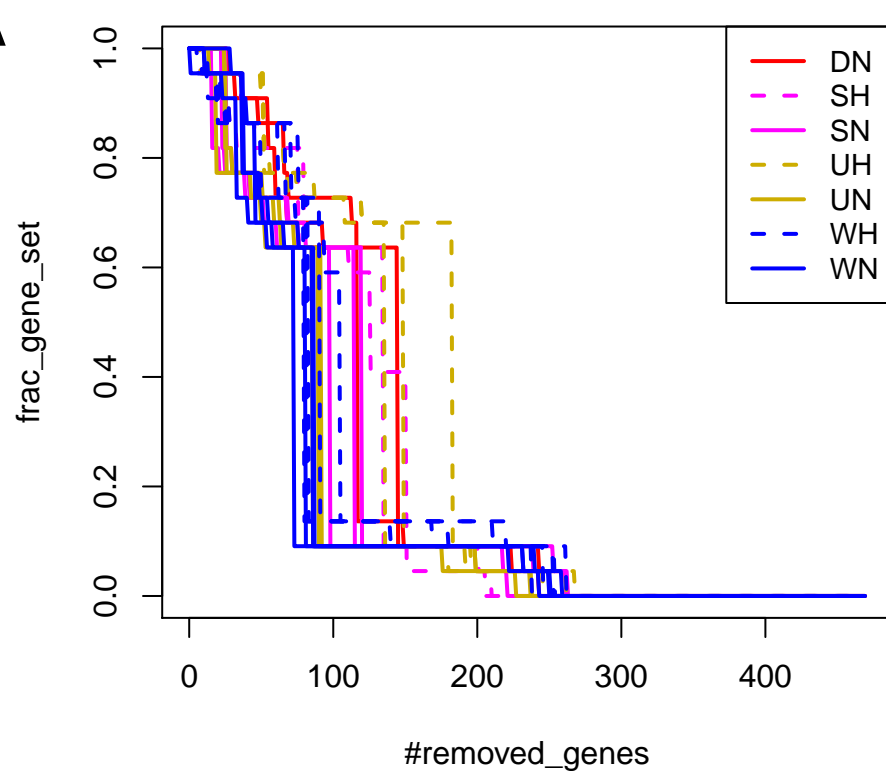
GO:0071265, L-methionine bp

$E = 0.26$, $p\text{-val} = 0.007$



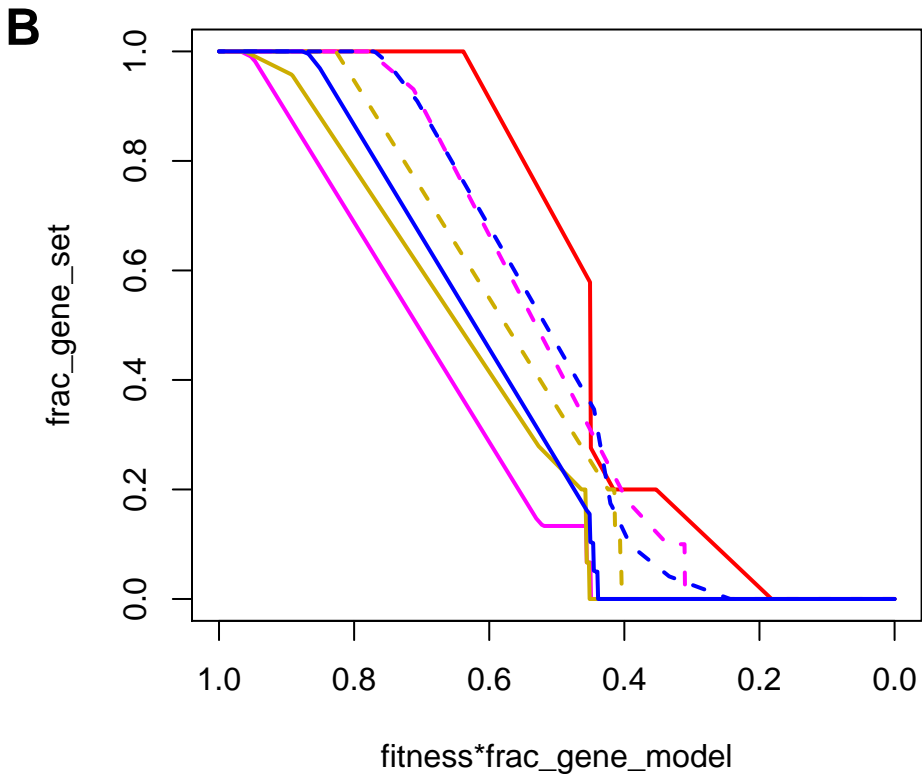
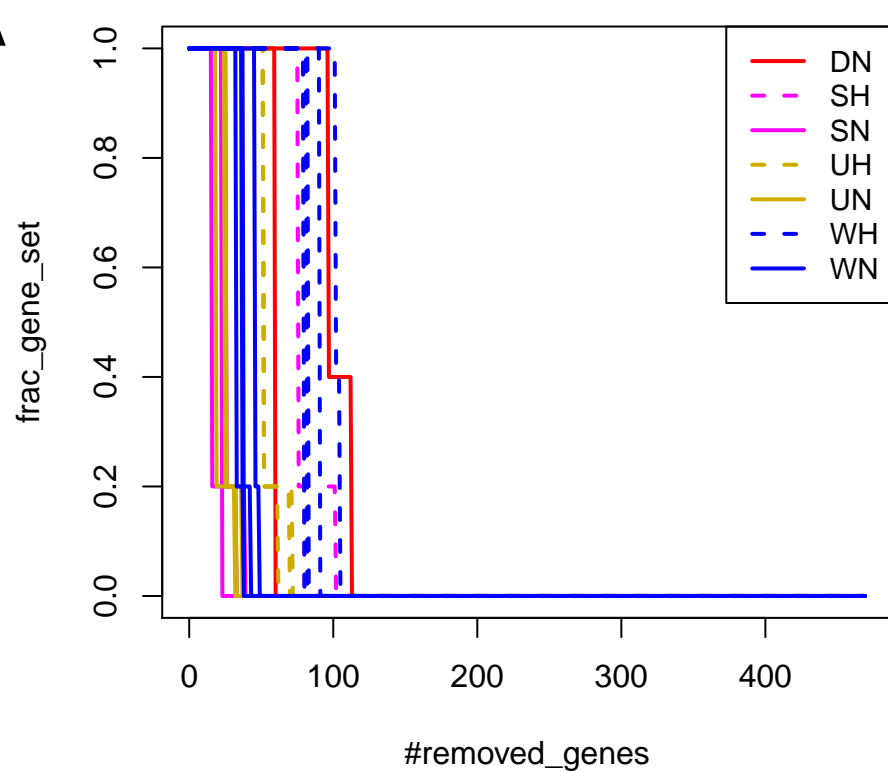
GO:0006631, fatty acid mp

E = 0.25, p-val = 0.017



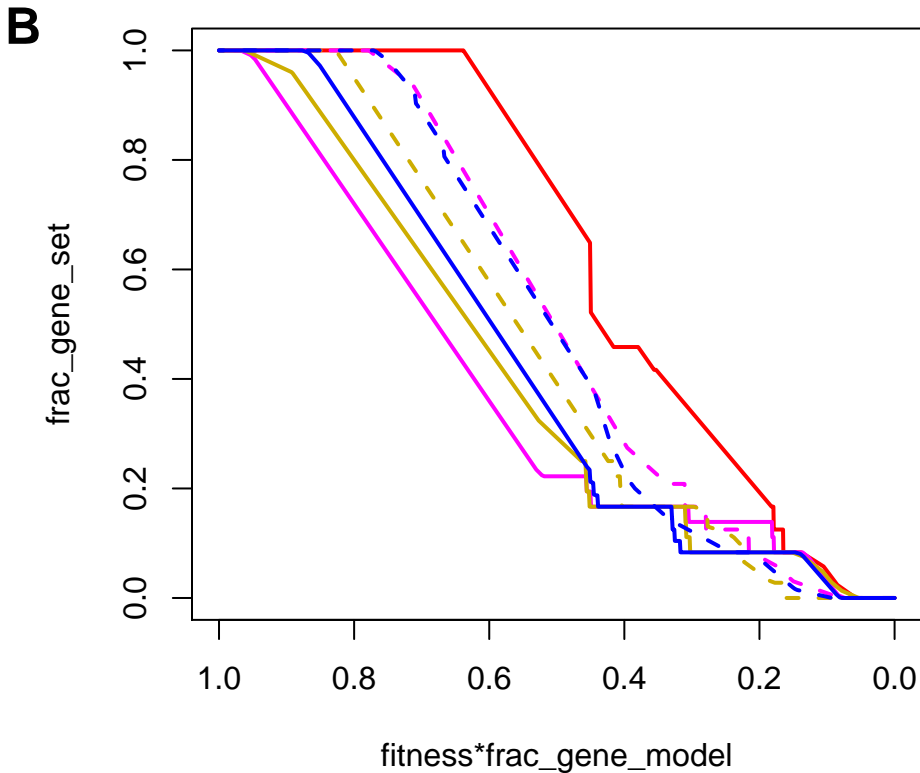
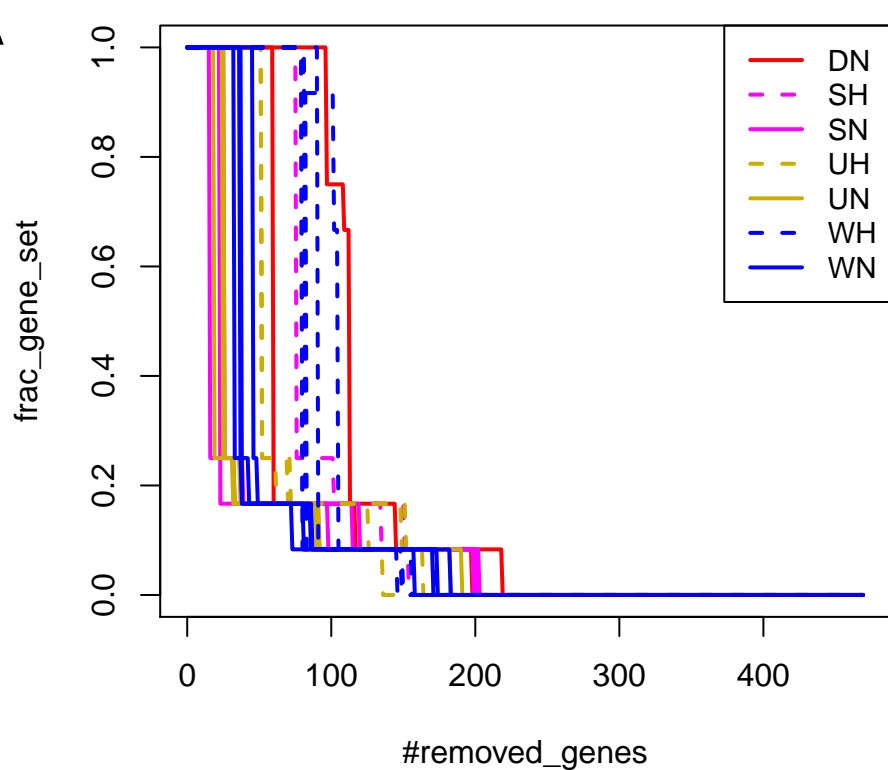
GO:0006656, phosphatidylcholine bp

$E = 0.25$, $p\text{-val} = 0.004$



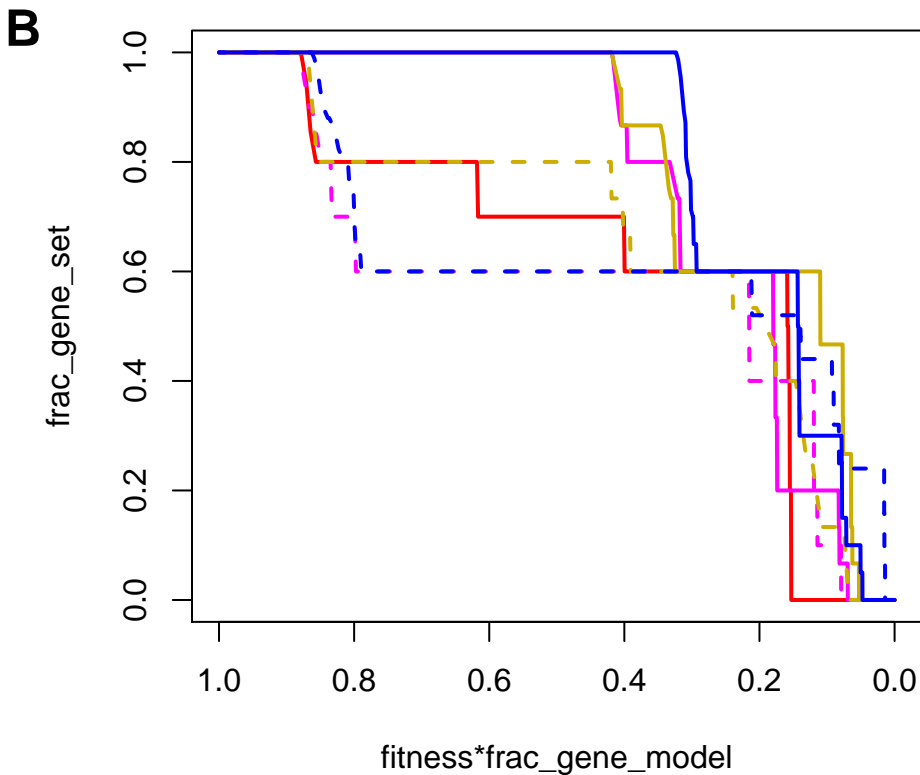
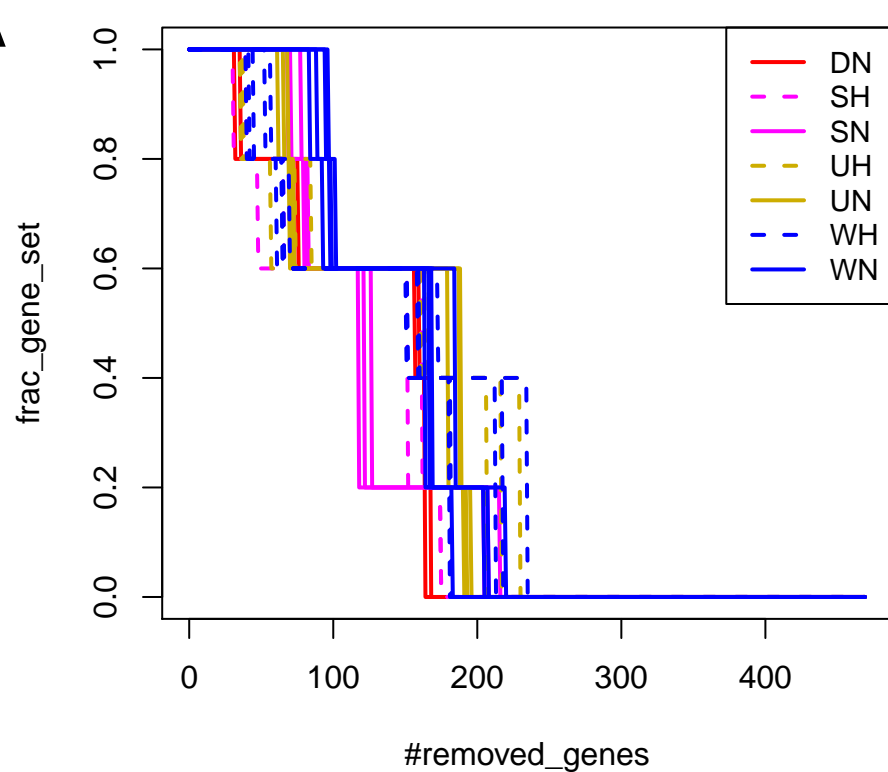
GO:0046474, glycerophospholipid bp

$E = 0.25$, $p\text{-val} = 0.009$



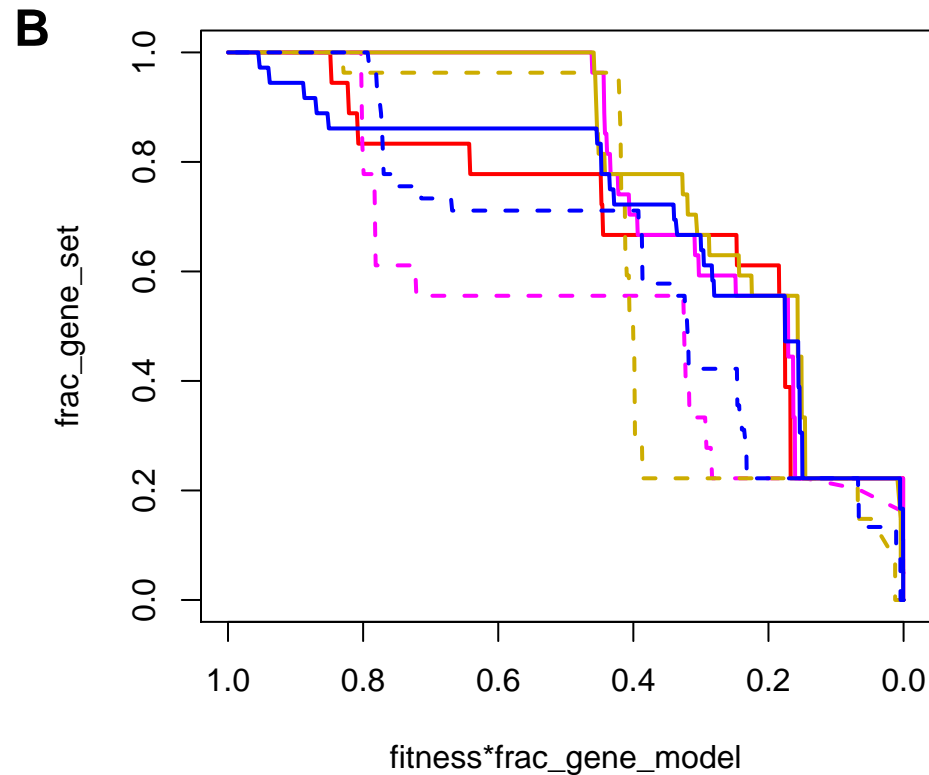
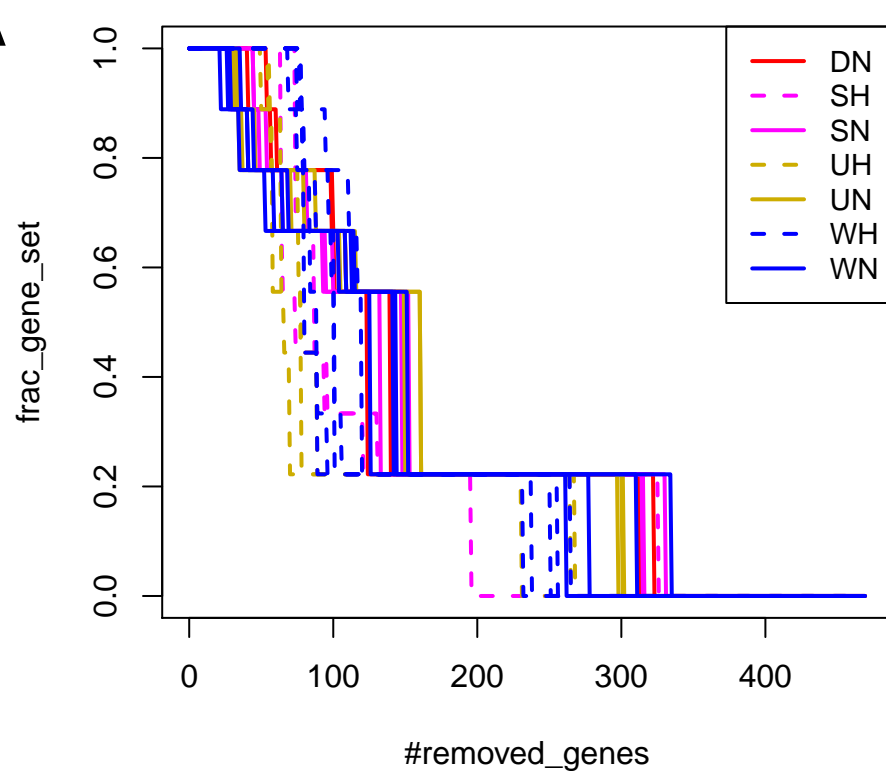
GO:0009138, pyrimidine nucleoside diphosphate mp

$E = 0.24$, $p\text{-val} = 0.007$



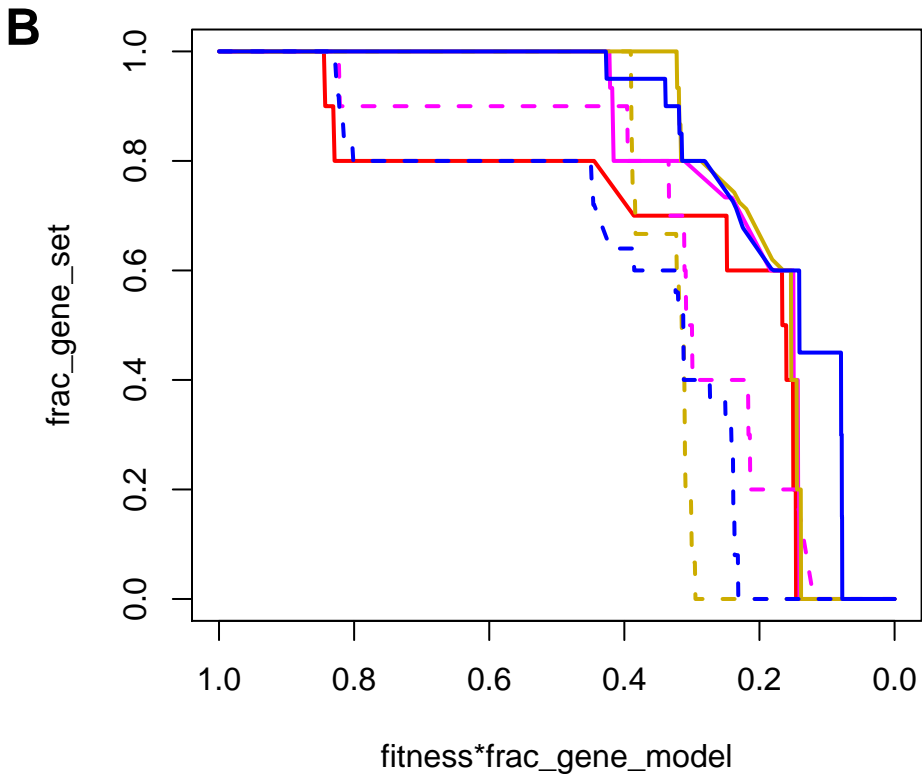
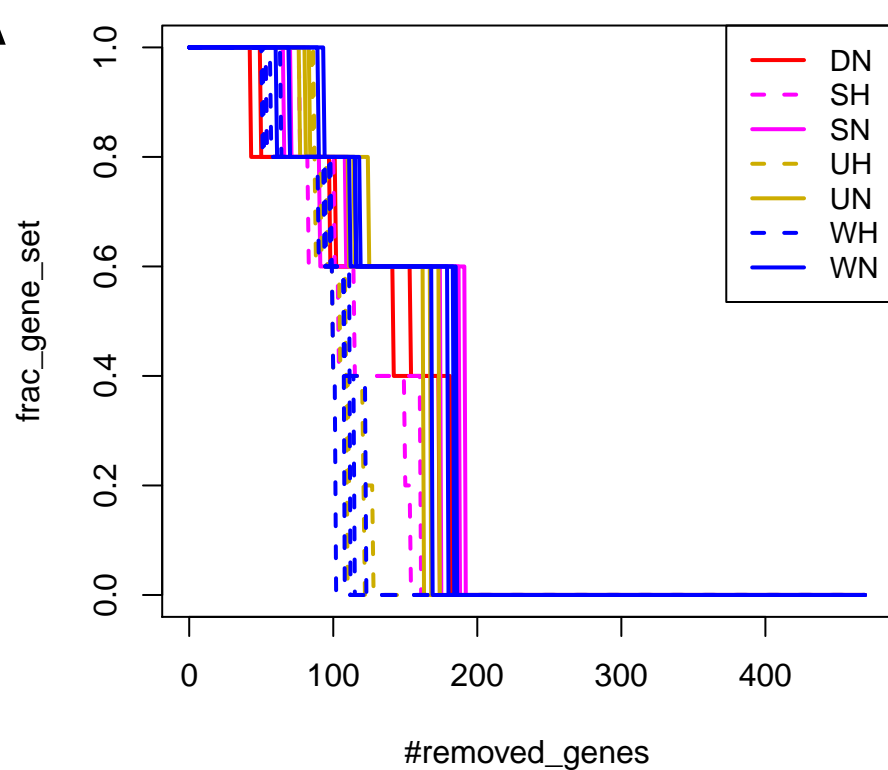
GO:0006563, L-serine mp

$E = 0.24$, $p\text{-val} = 0.001$



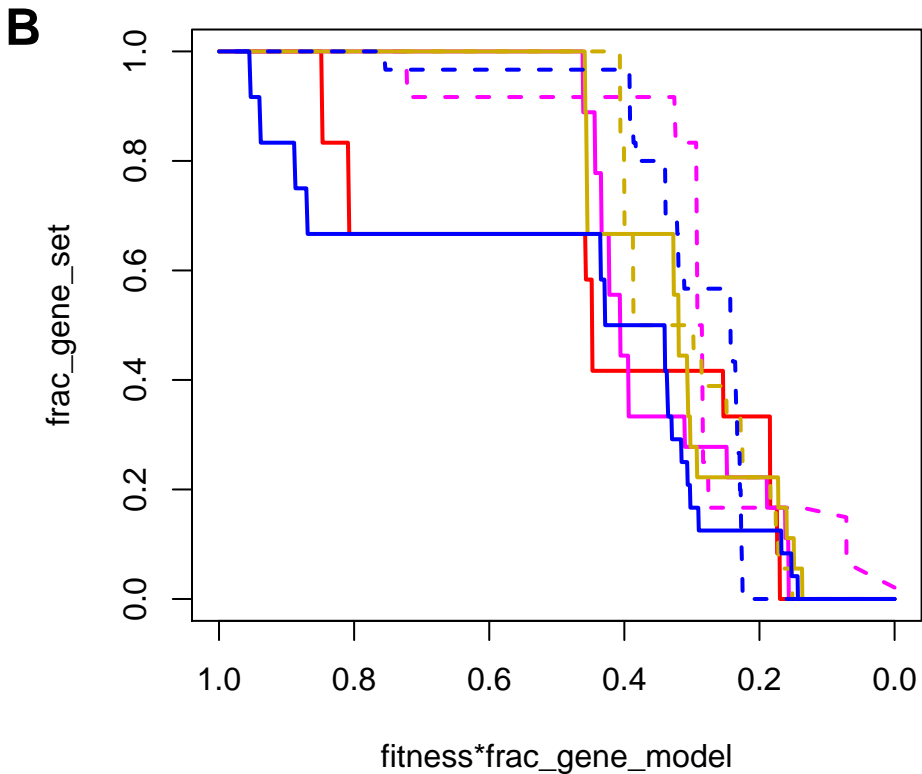
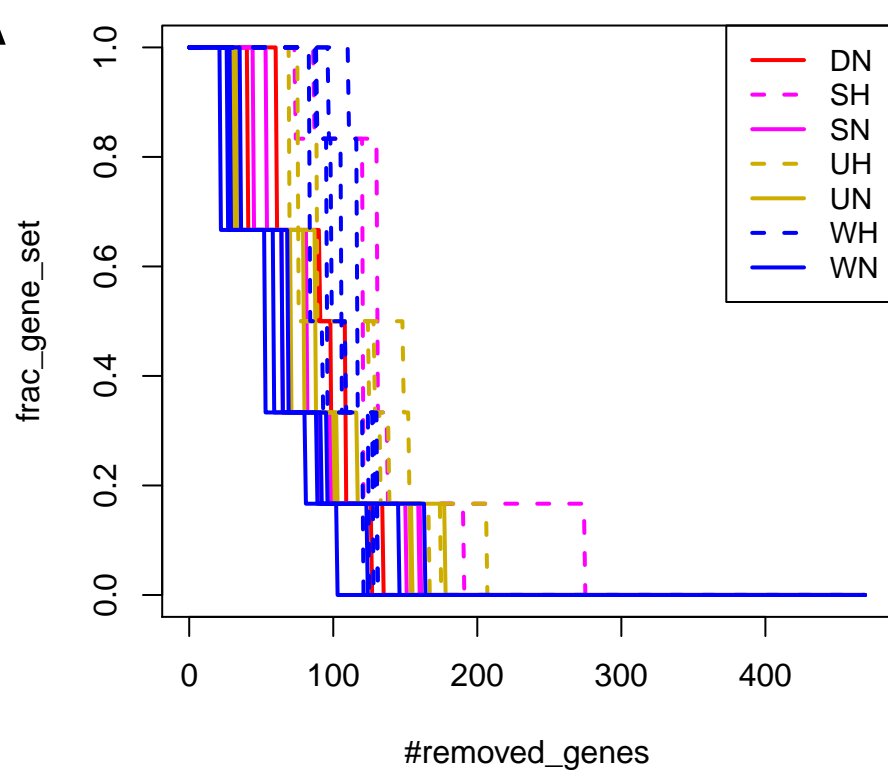
GO:0043173, nucleotide salvage

E = 0.24, p-val = 0.024



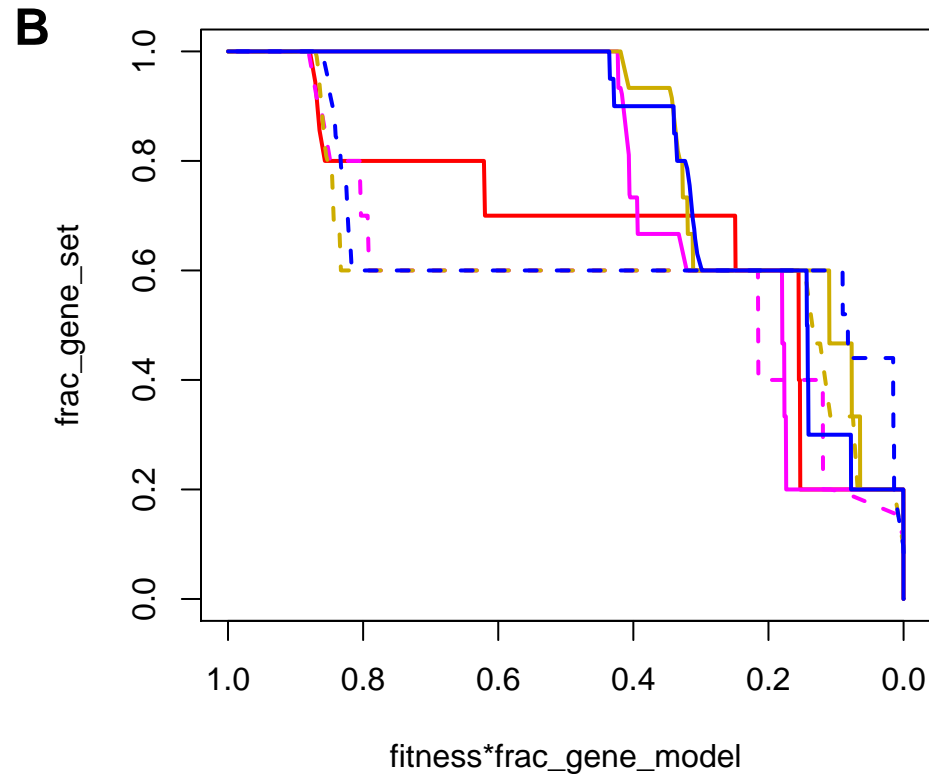
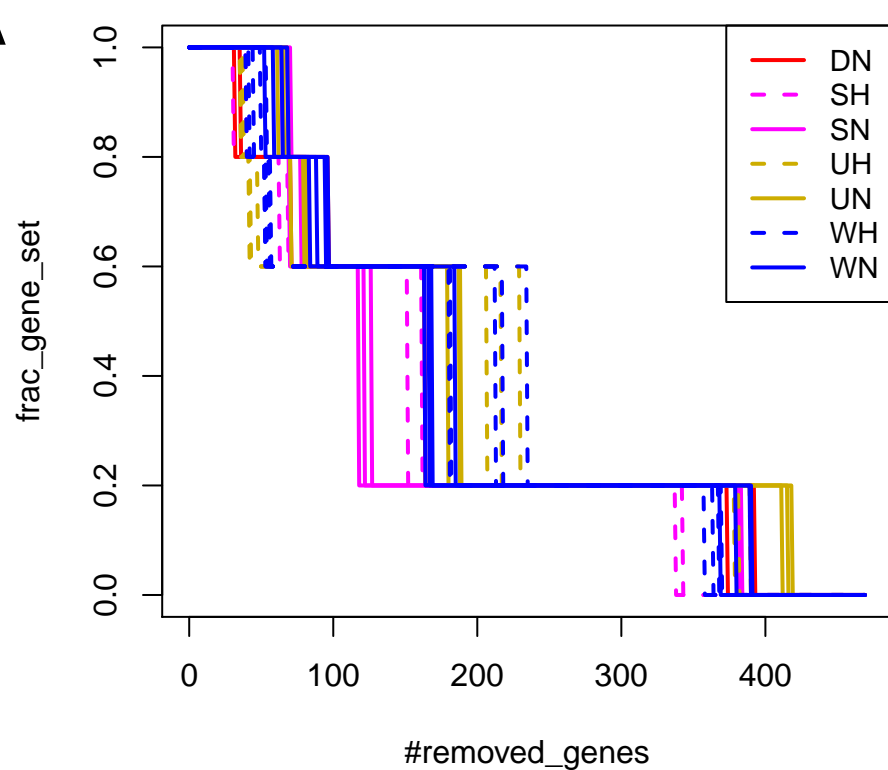
GO:0019344, cysteine bp

E = 0.24, p-val = 0.026



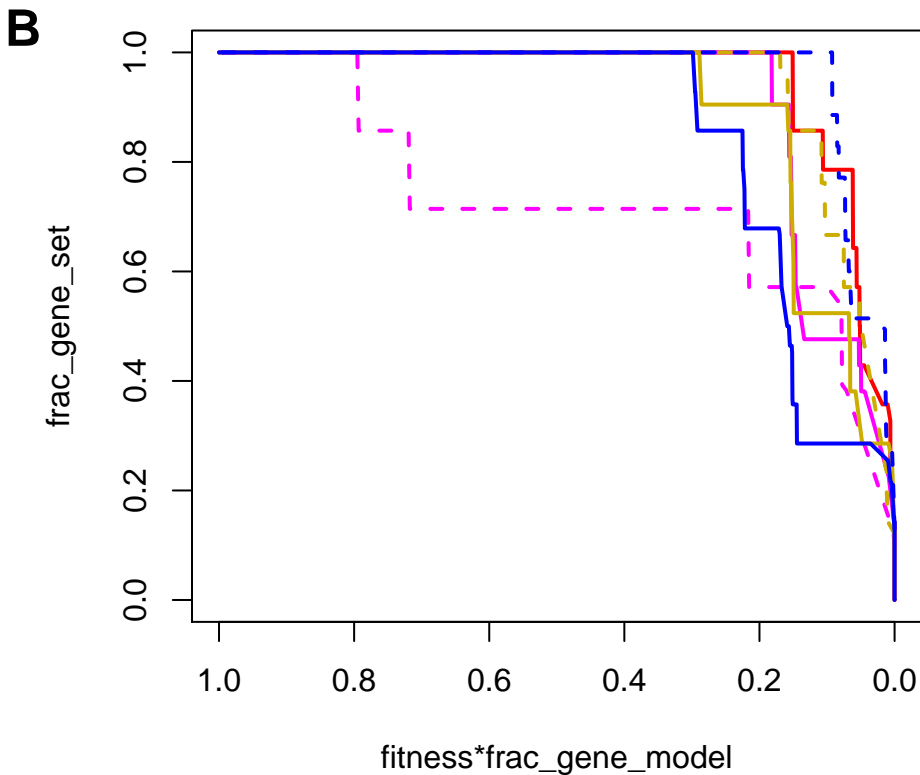
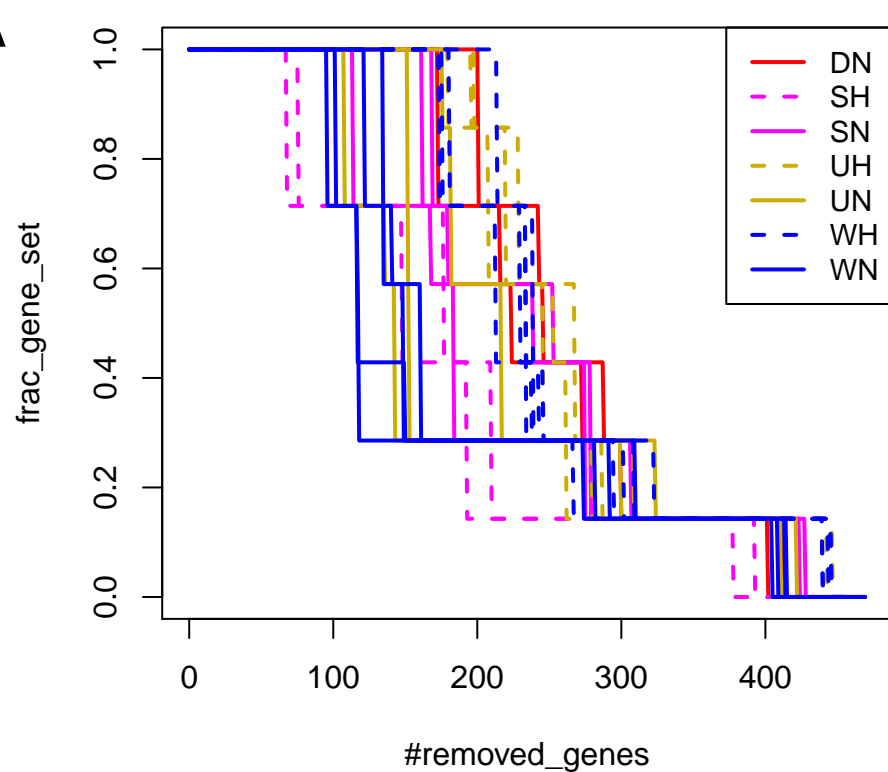
GO:0009133, nucleoside diphosphate bp

$E = 0.23$, $p\text{-val} = 0.024$



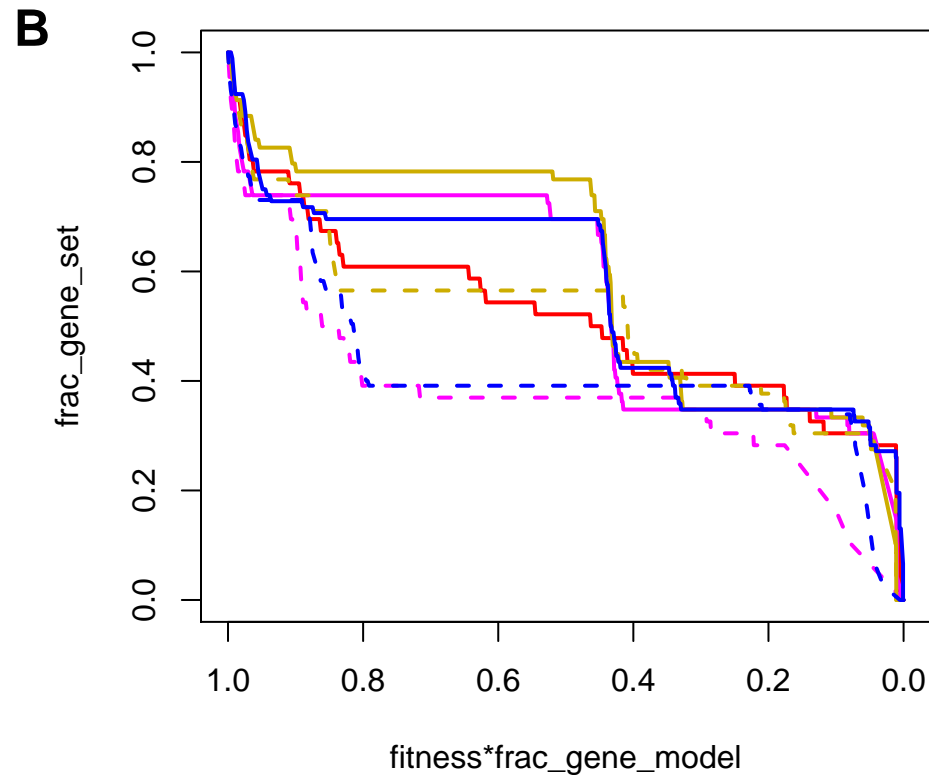
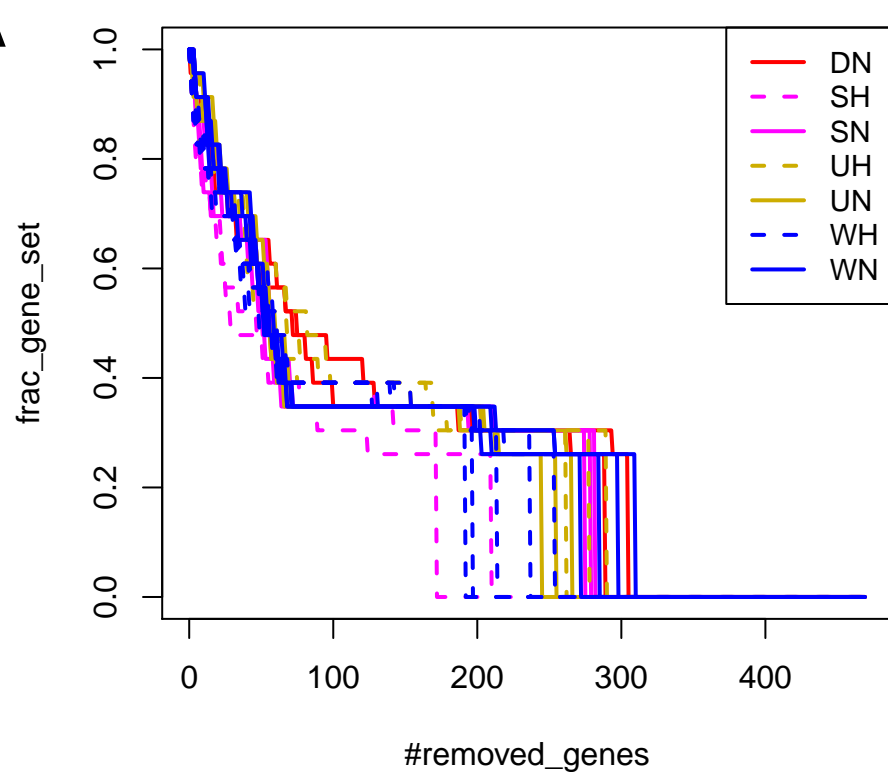
GO:0009065, glutamine family aa cp

$E = 0.23$, $p\text{-val} = 0.003$



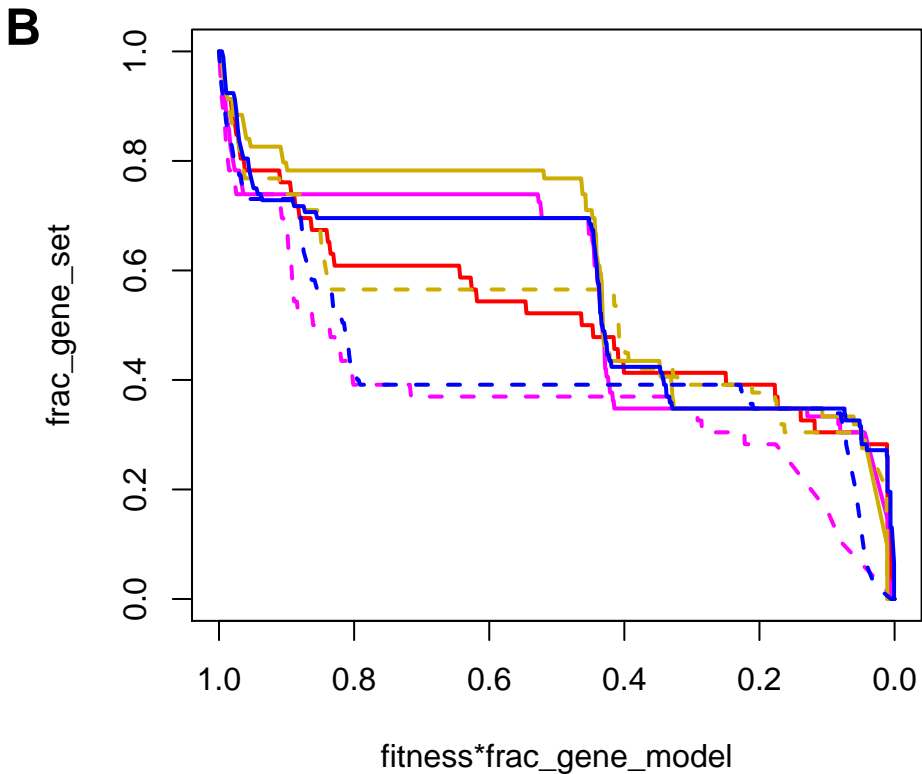
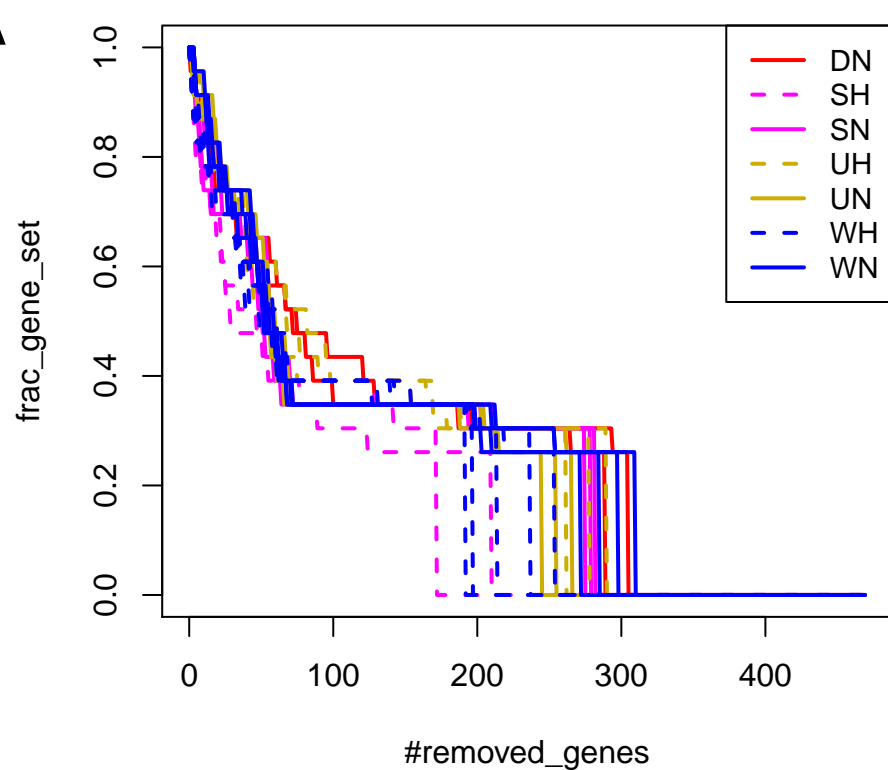
GO:0035428, hexose tt

$E = 0.22$, $p\text{-val} = 0.001$



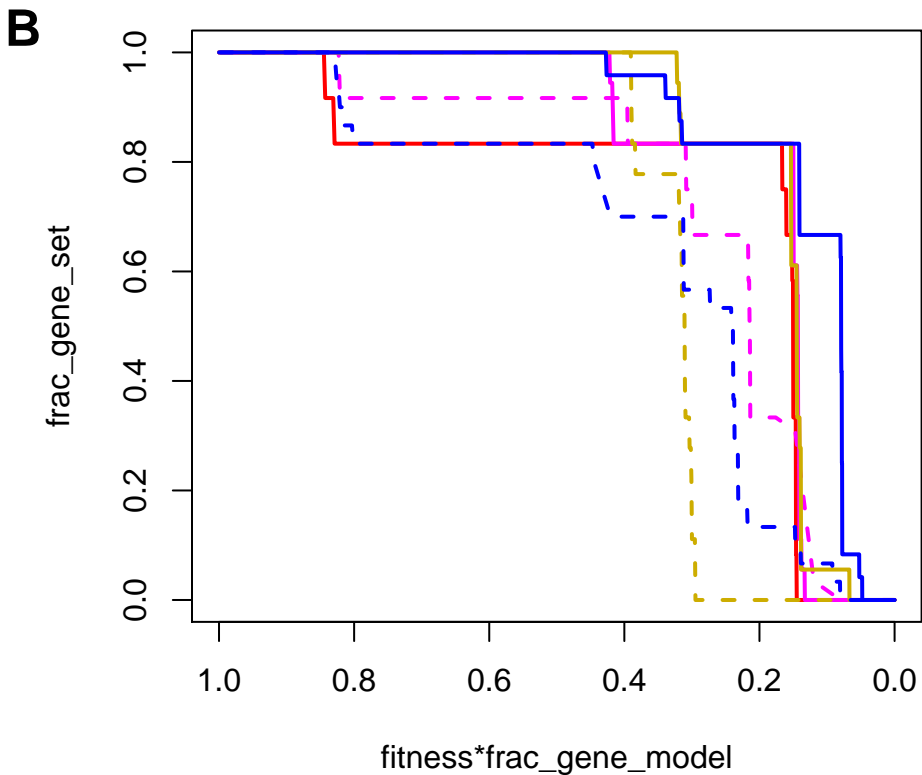
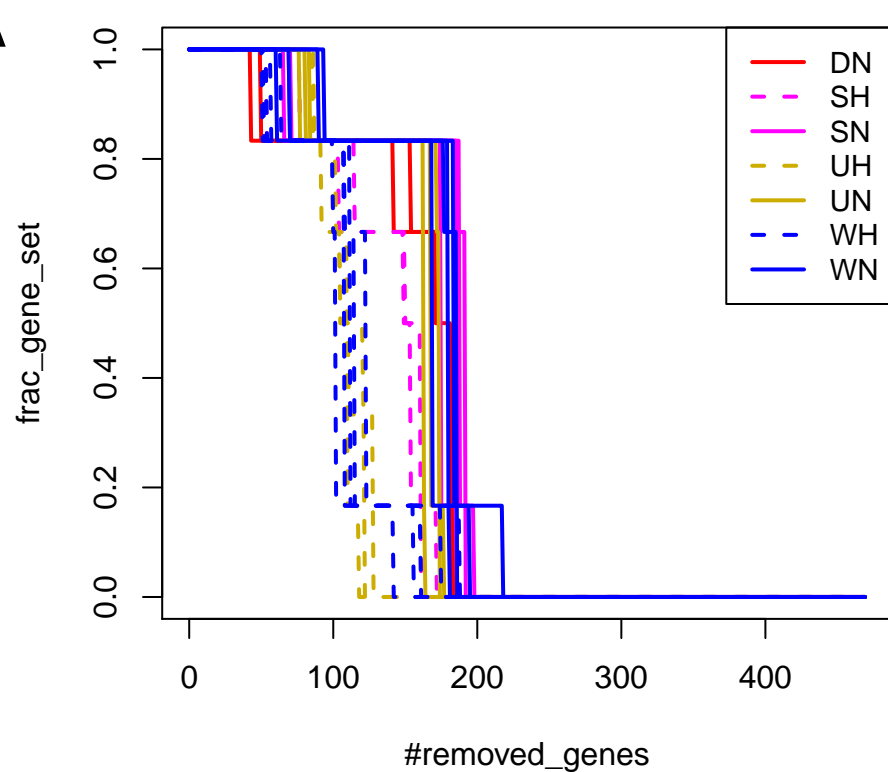
GO:0046323, glucose import

$E = 0.22$, $p\text{-val} = 0.001$



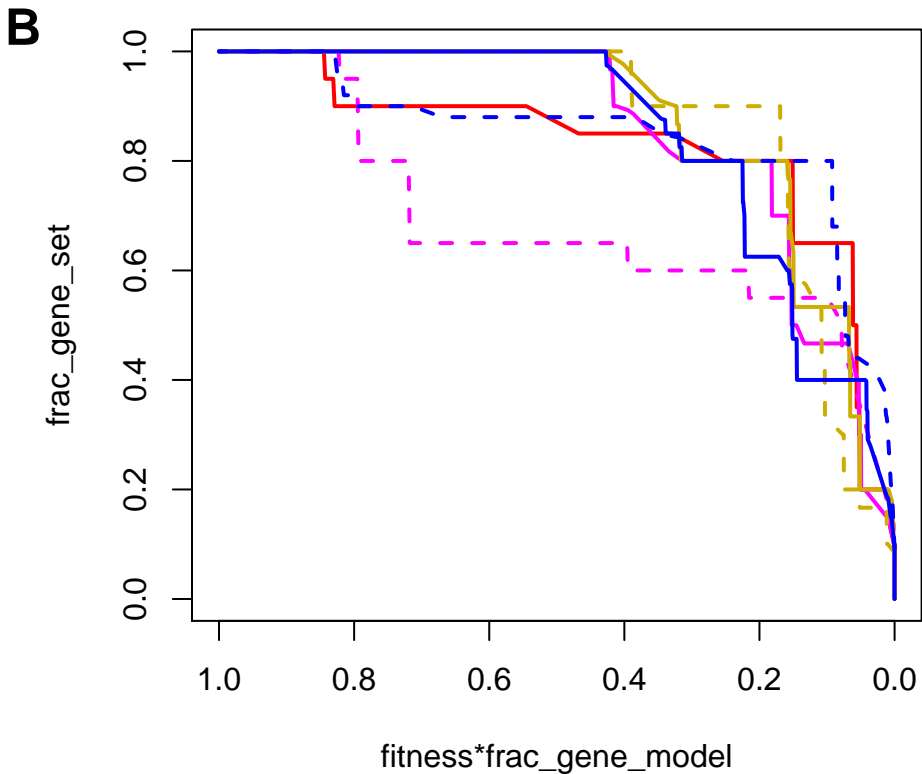
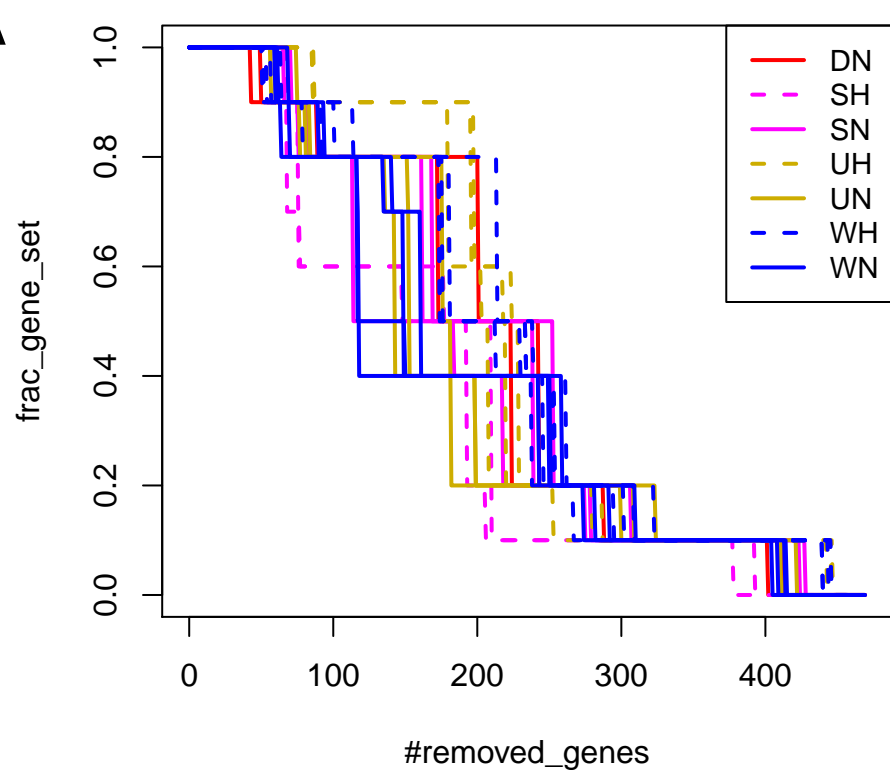
GO:0043101, purine-containing compound salvage

$E = 0.22$, $p\text{-val} = 0.026$



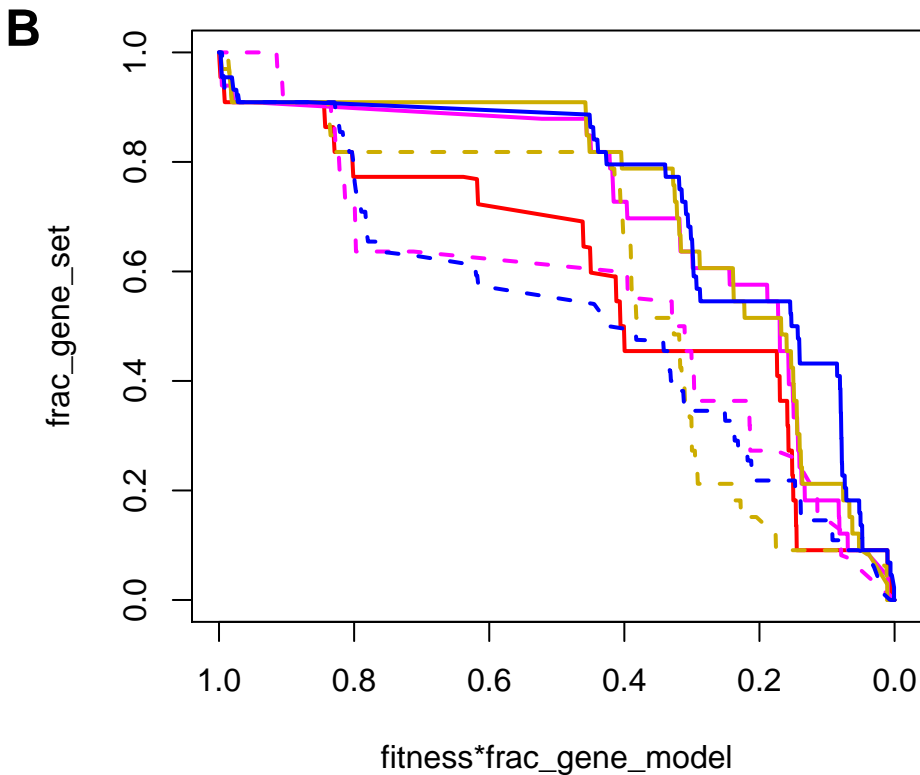
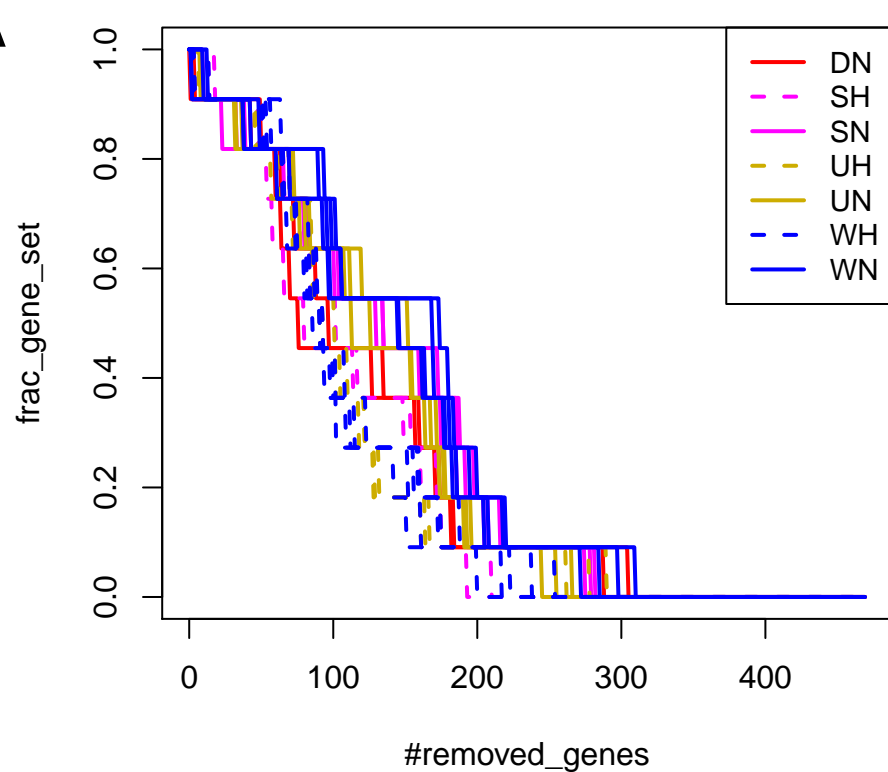
GO:0006536, glutamate mp

$E = 0.22$, $p\text{-val} = 0.001$



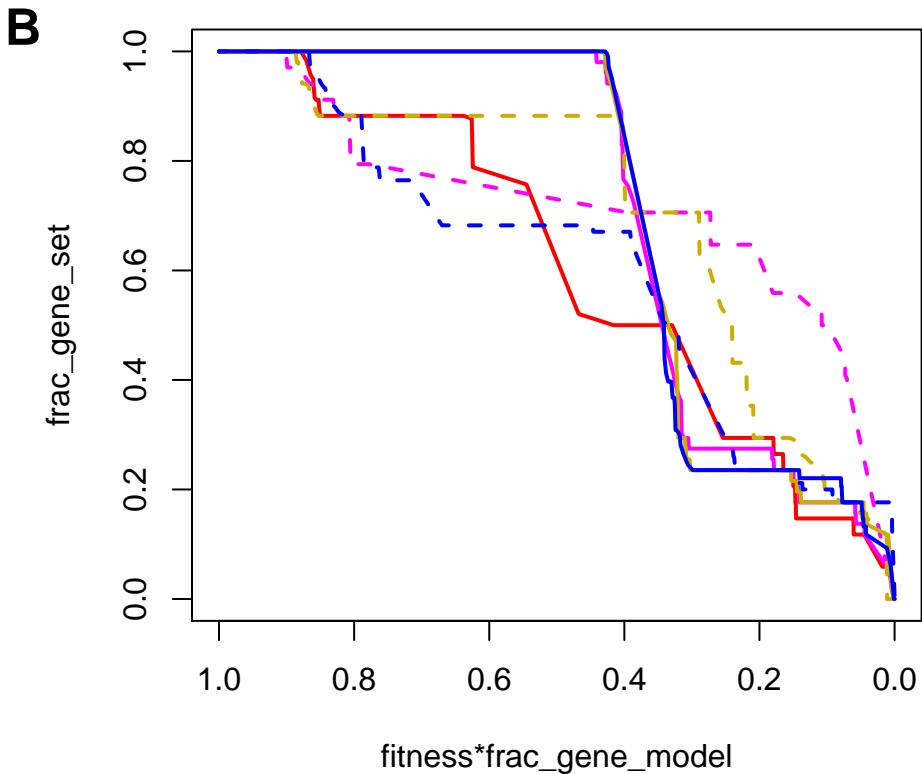
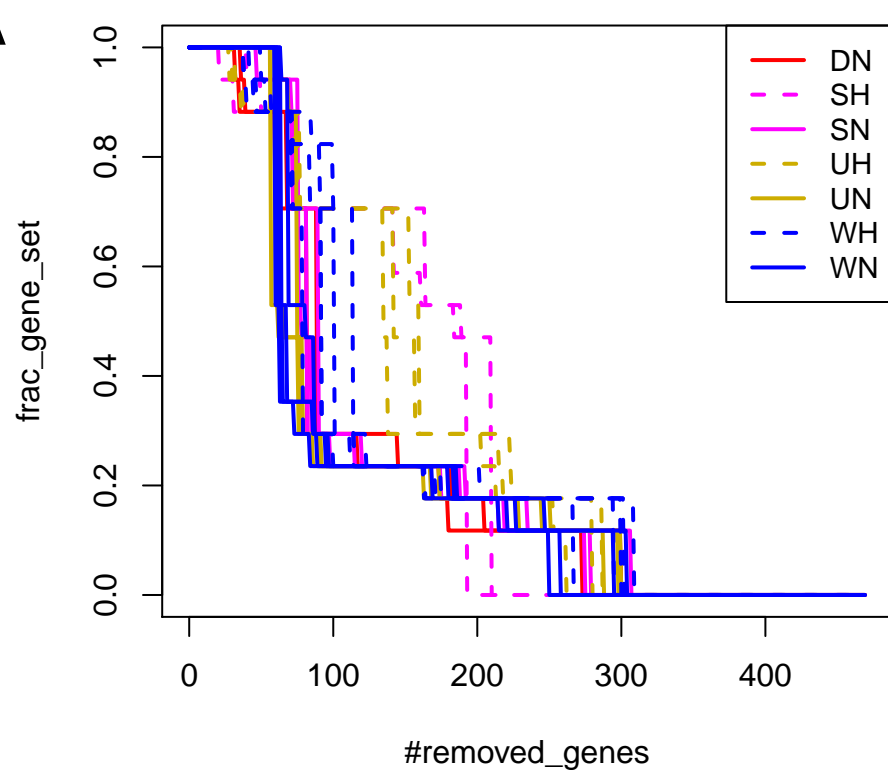
GO:1901136, carbohydrate derivative cp

$E = 0.22$, $p\text{-val} = 0.025$



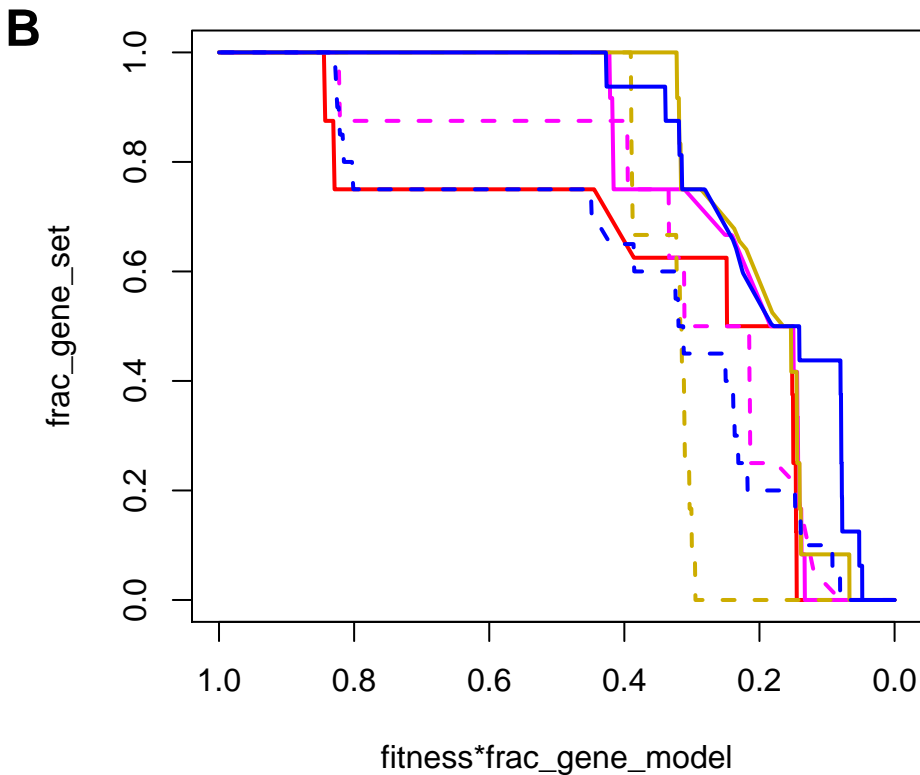
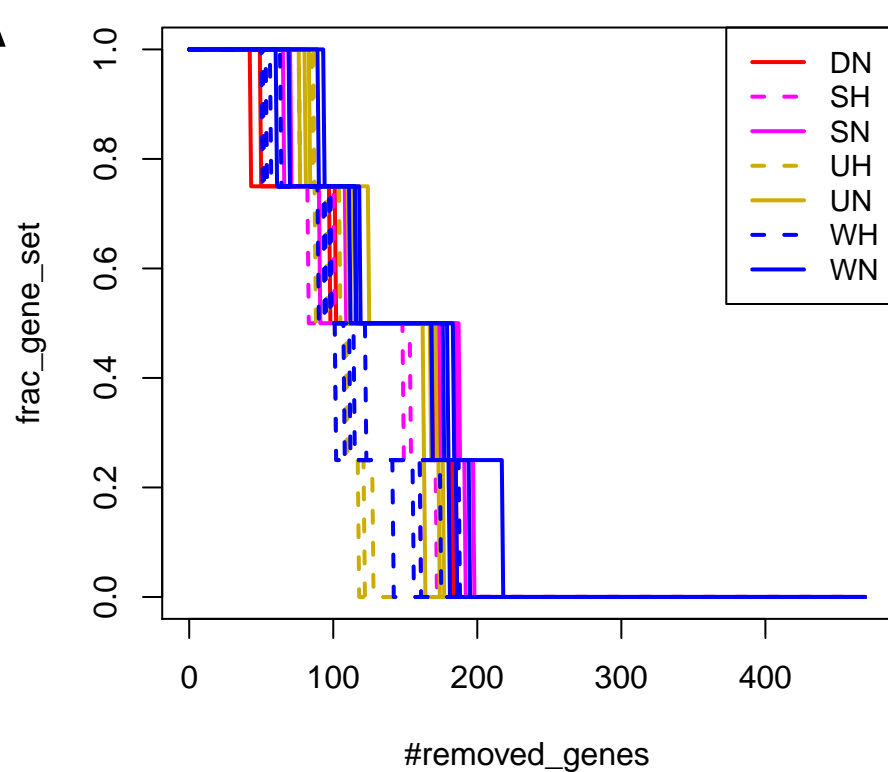
GO:0043604, amide bp

$E = 0.21$, $p\text{-val} = 0.028$



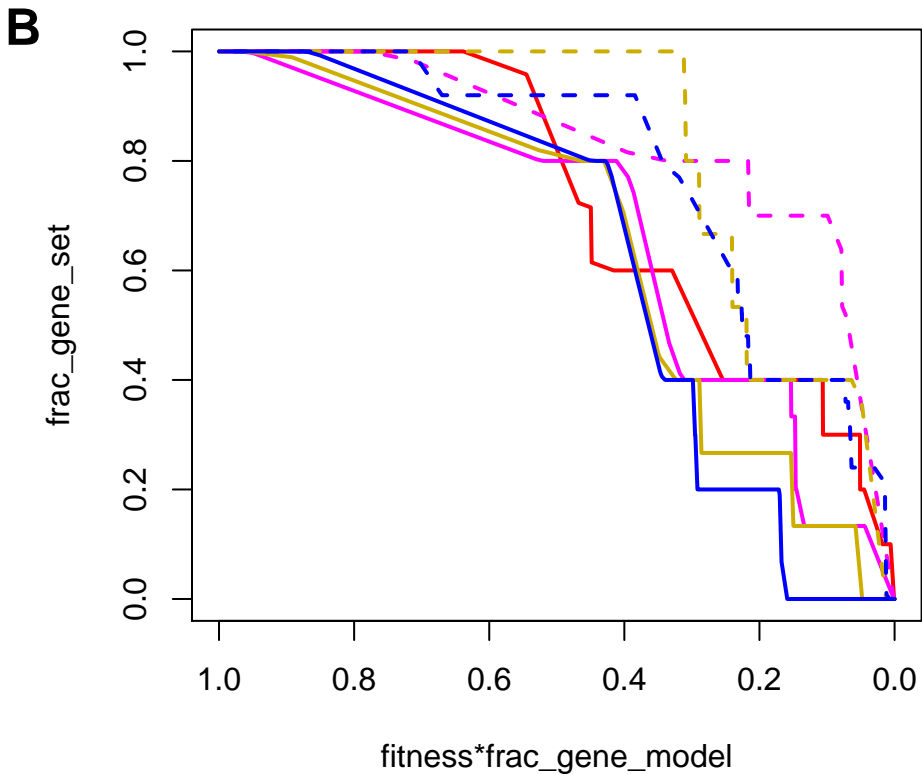
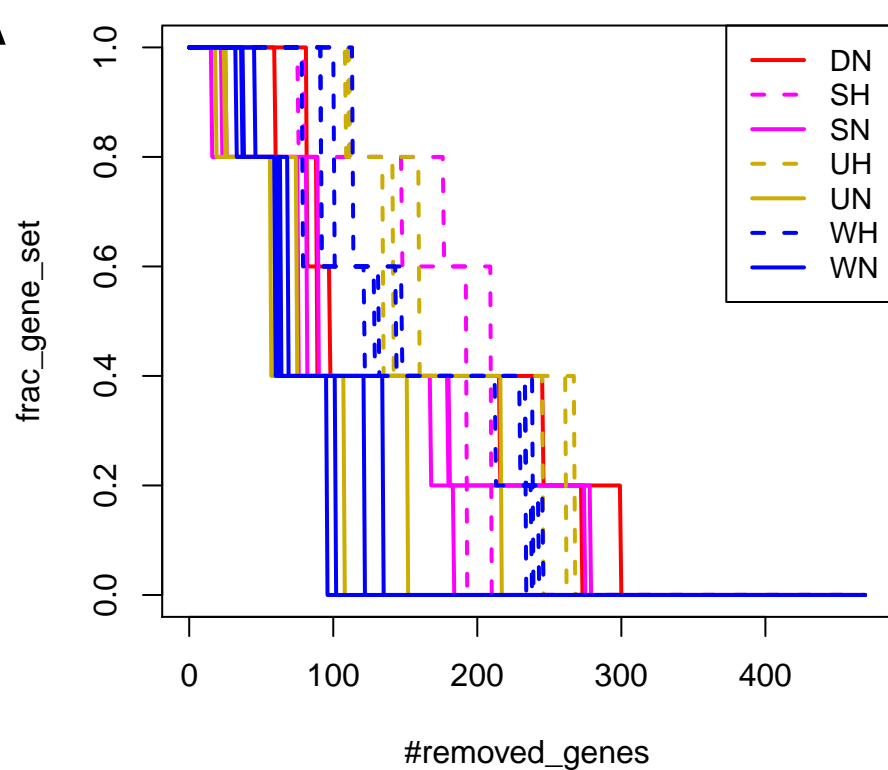
GO:0043174, nucleoside salvage

$E = 0.21$, $p\text{-val} = 0.027$



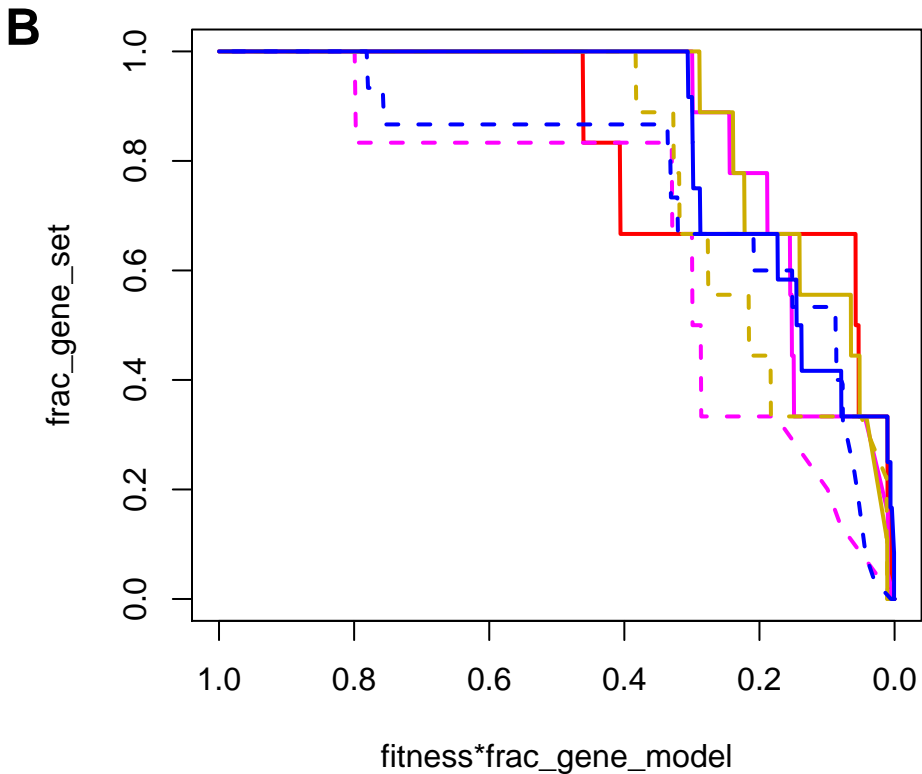
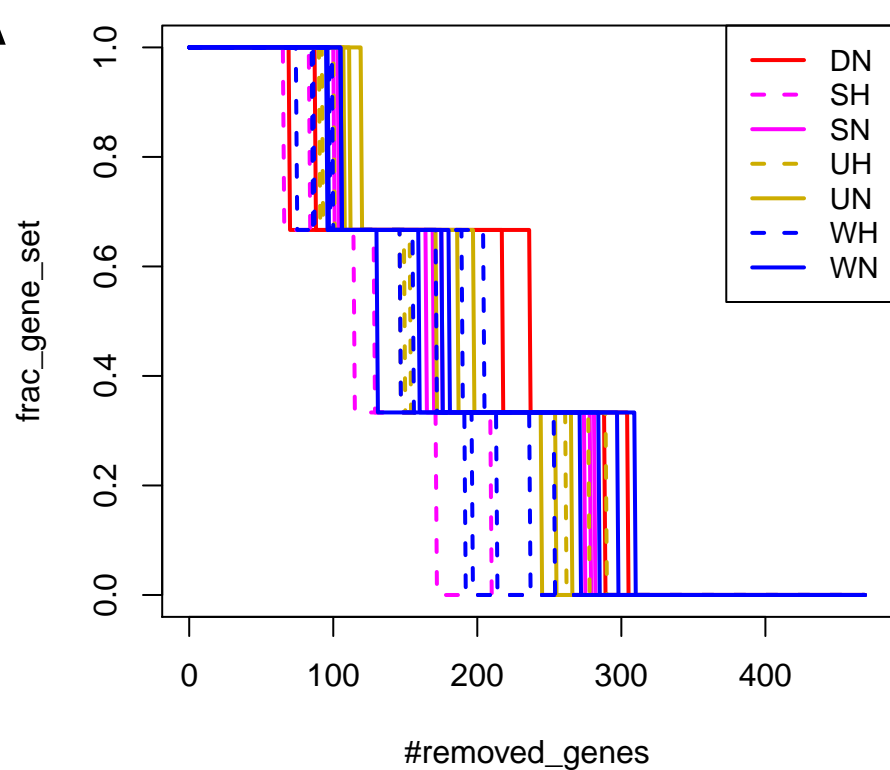
GO:0006591, ornithine mp

E = 0.21, p-val = 0.02



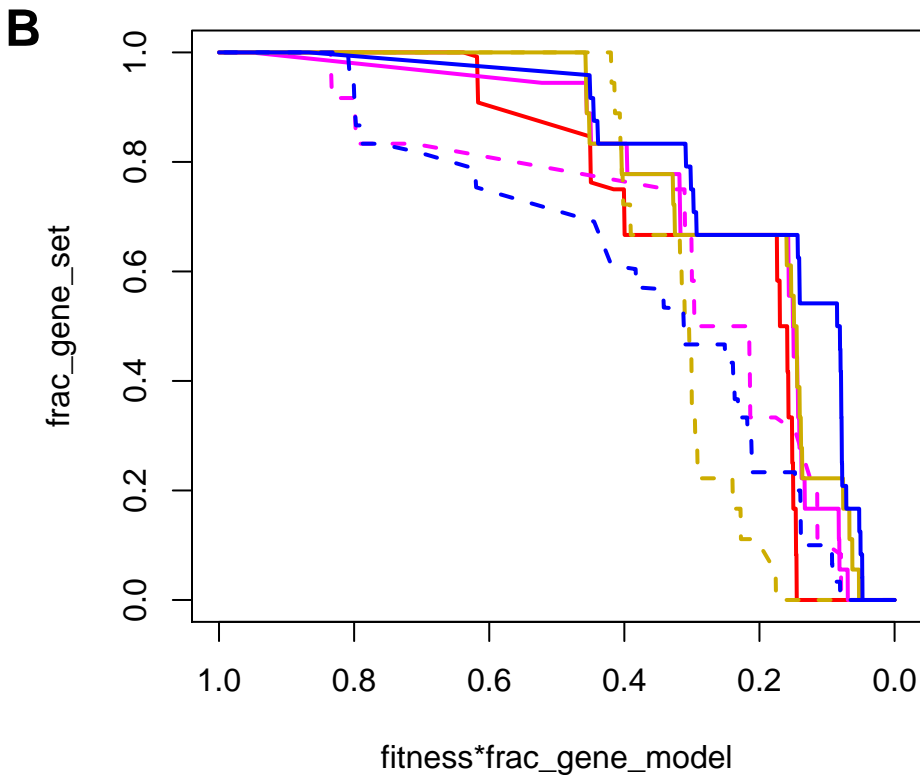
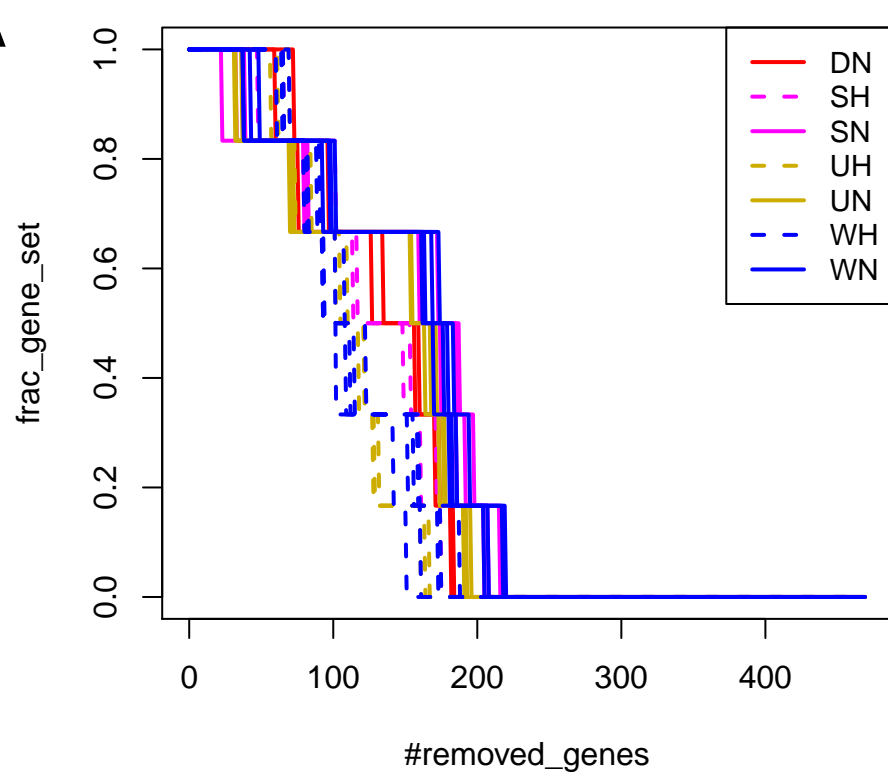
GO:0001678, cellular glucose homeostasis

$E = 0.2$, $p\text{-val} = 0.016$



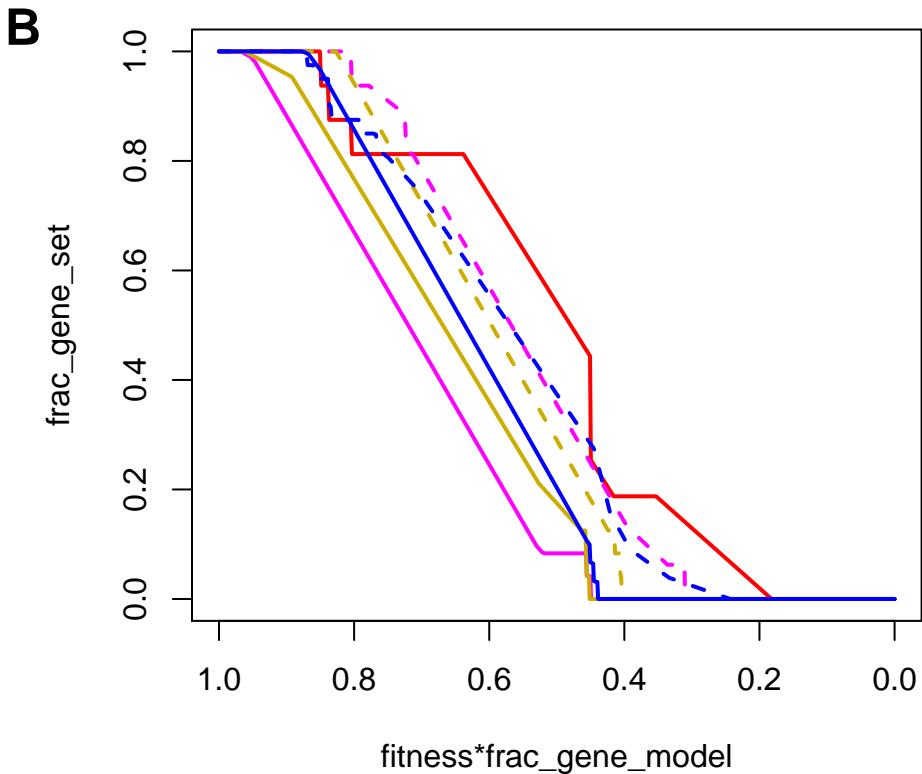
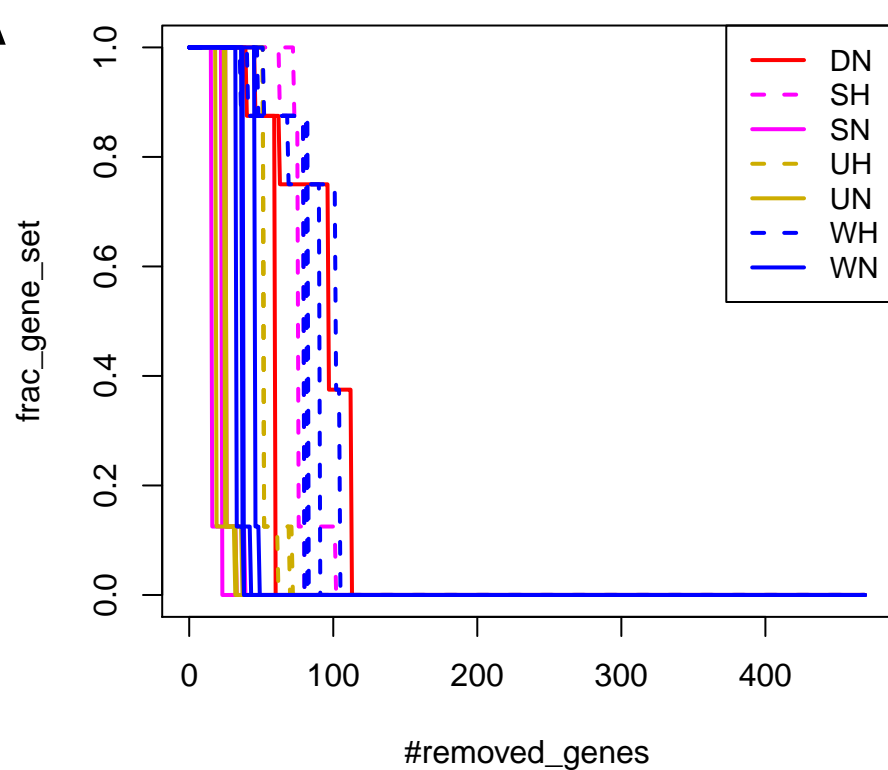
GO:0046130, purine ribonucleoside cp

E = 0.2, p-val = 0.009



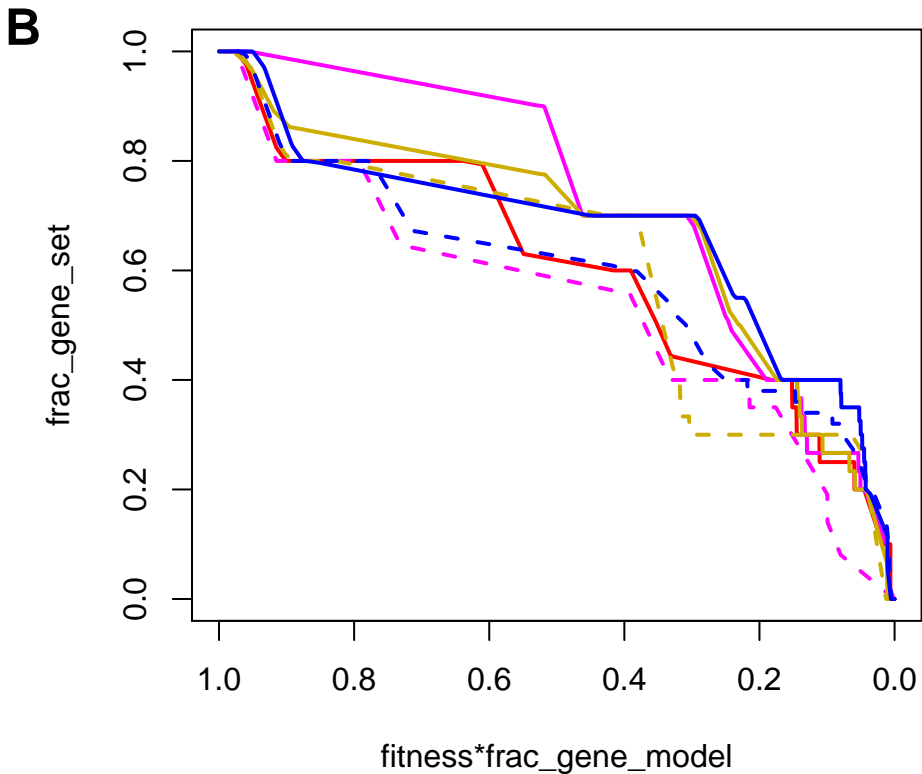
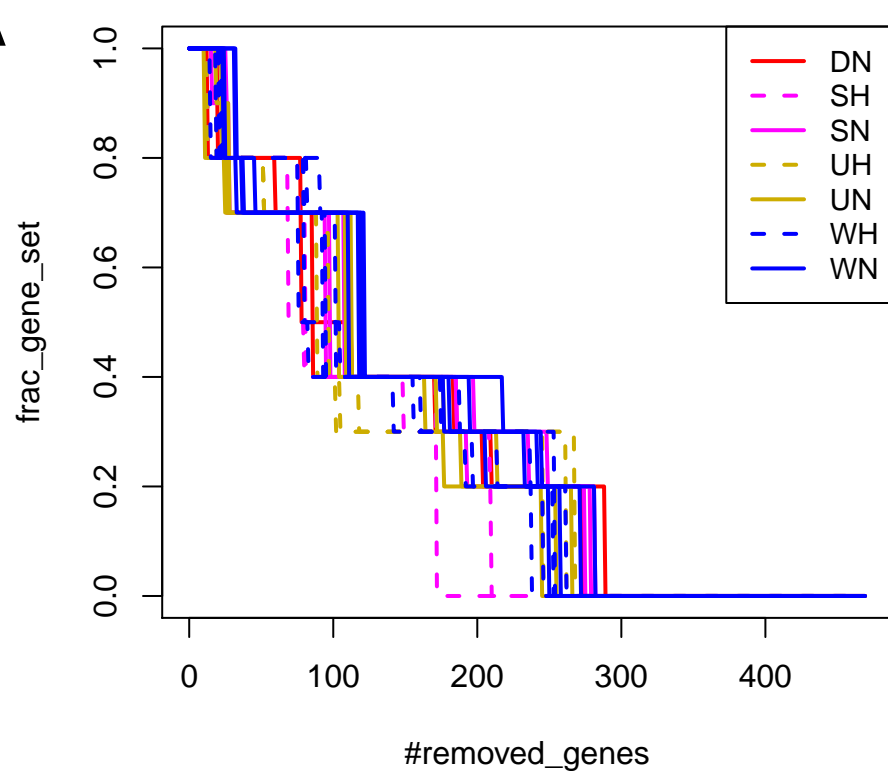
GO:0097164, ammonium ion mp

E = 0.19, p-val = 0.001



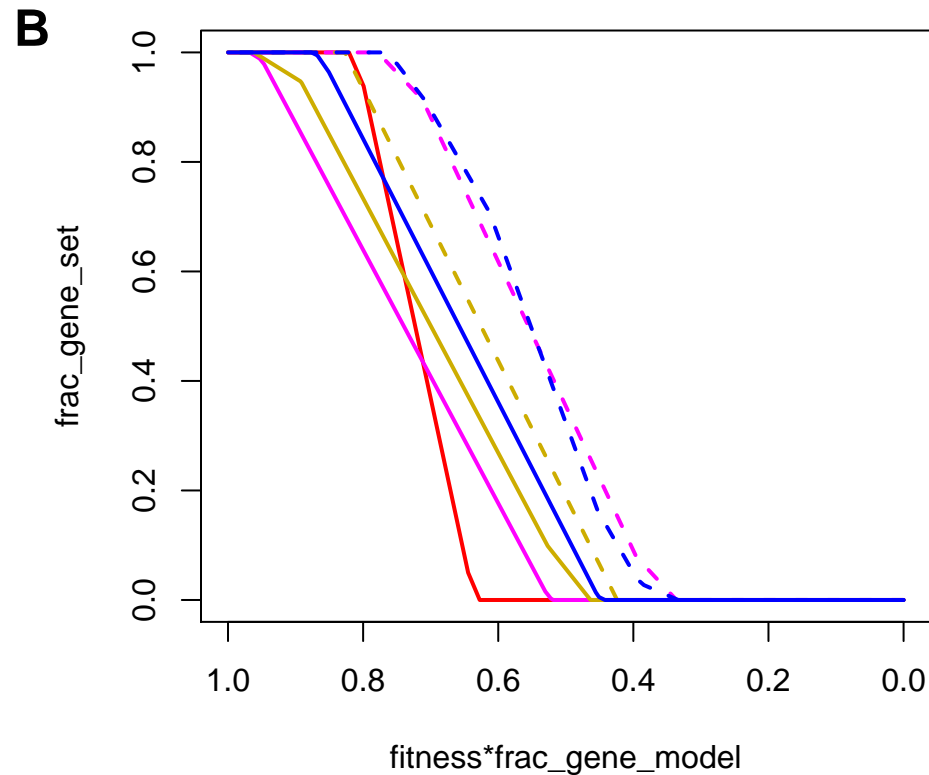
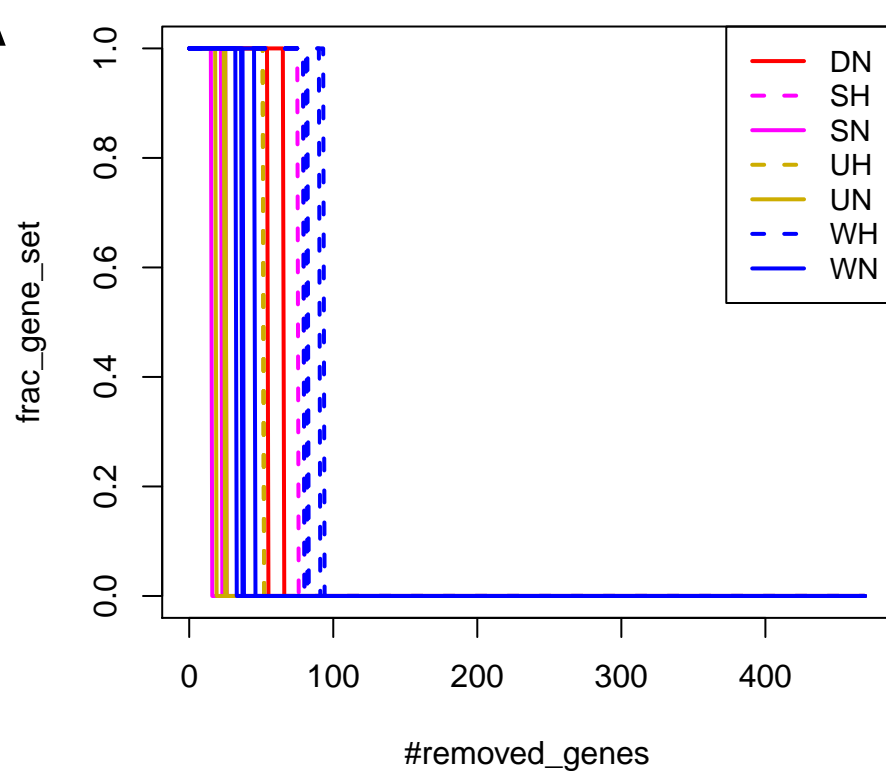
GO:0034637, cellular carbohydrate bp

$E = 0.19$, $p\text{-val} = 0.009$



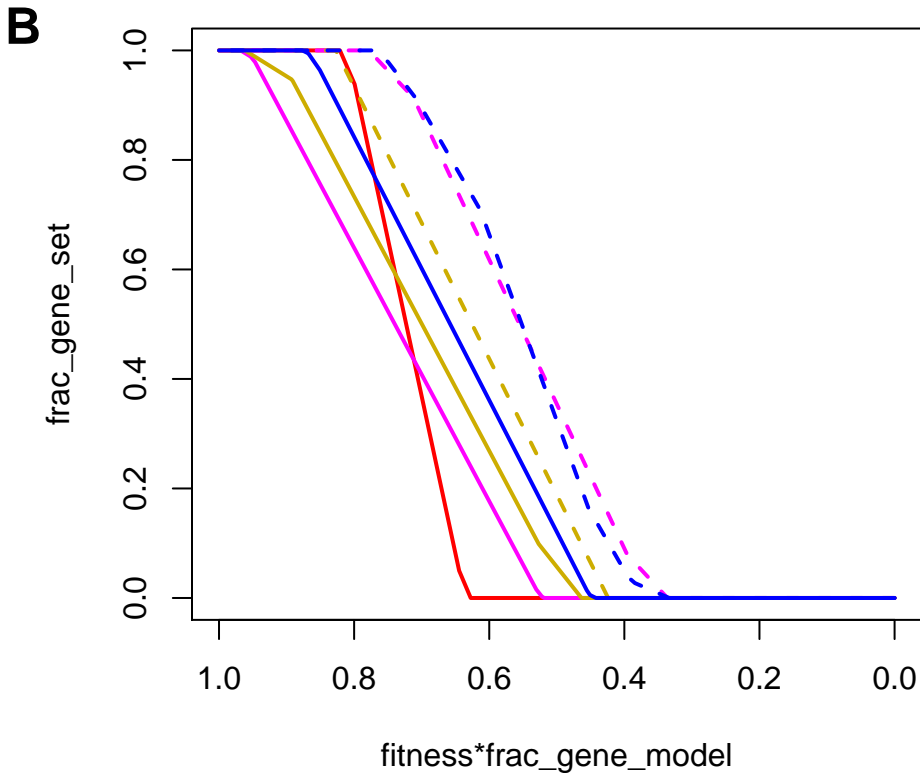
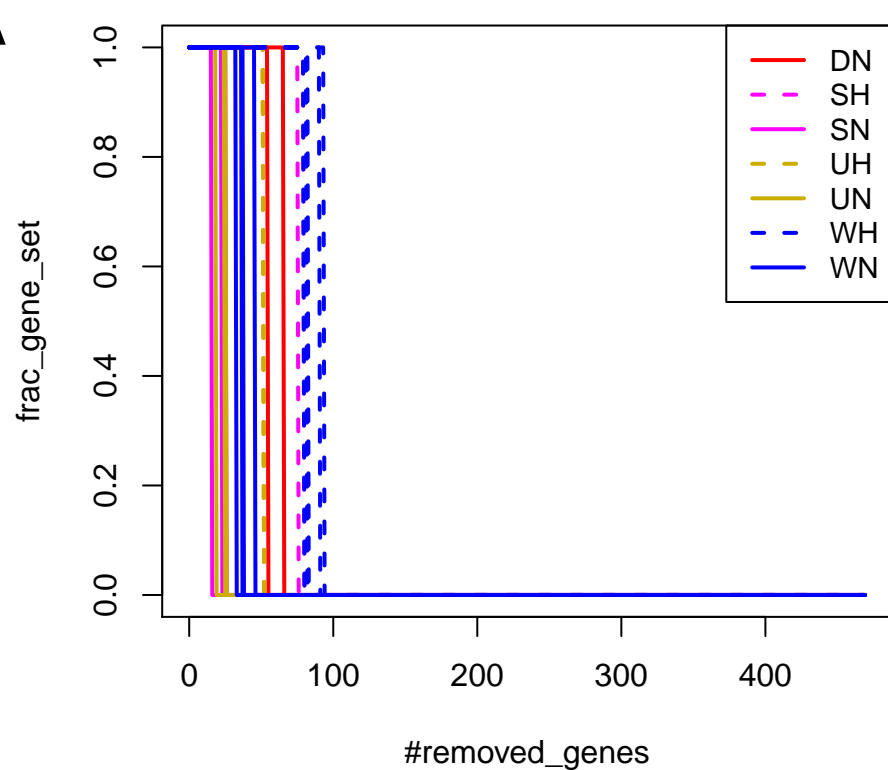
GO:0006696, ergosterol bp

E = 0.18, p-val = 0.014



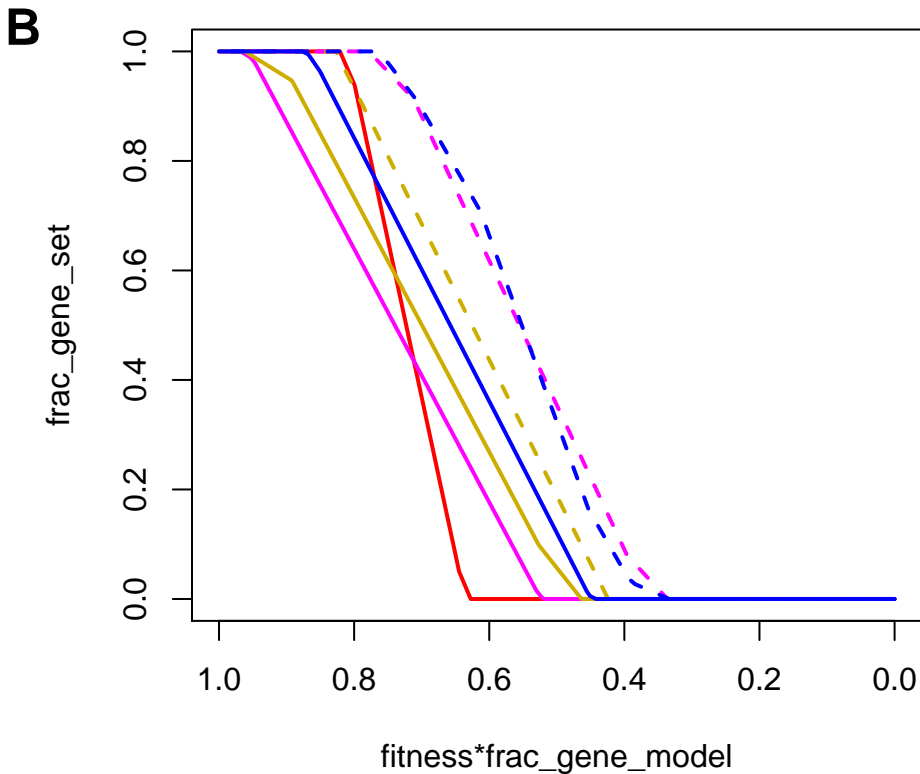
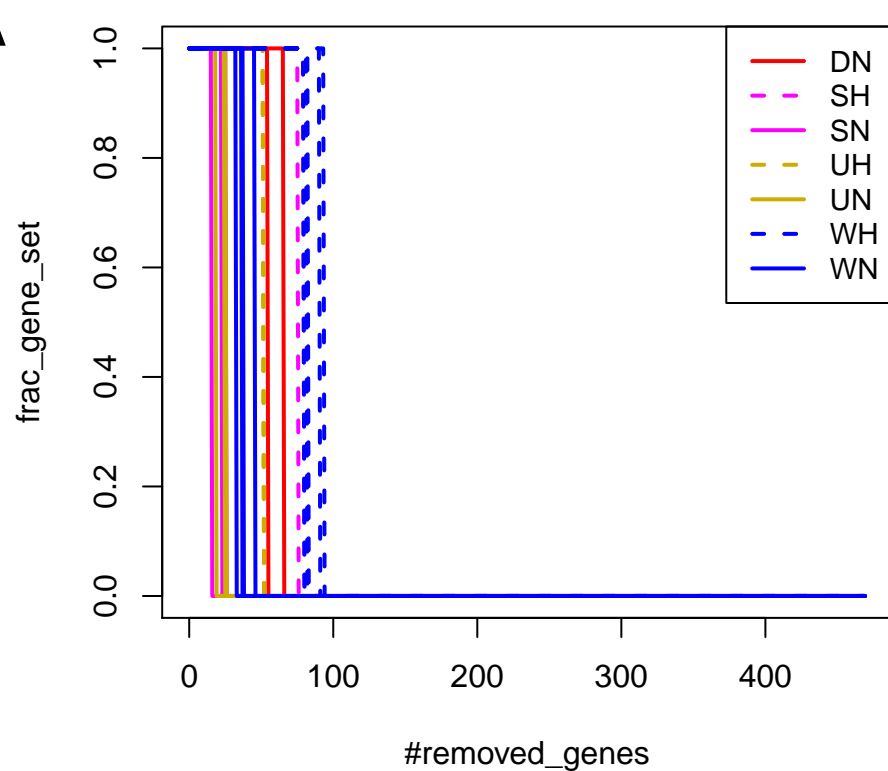
GO:0008299, isoprenoid bp

$E = 0.18$, $p\text{-val} = 0.015$



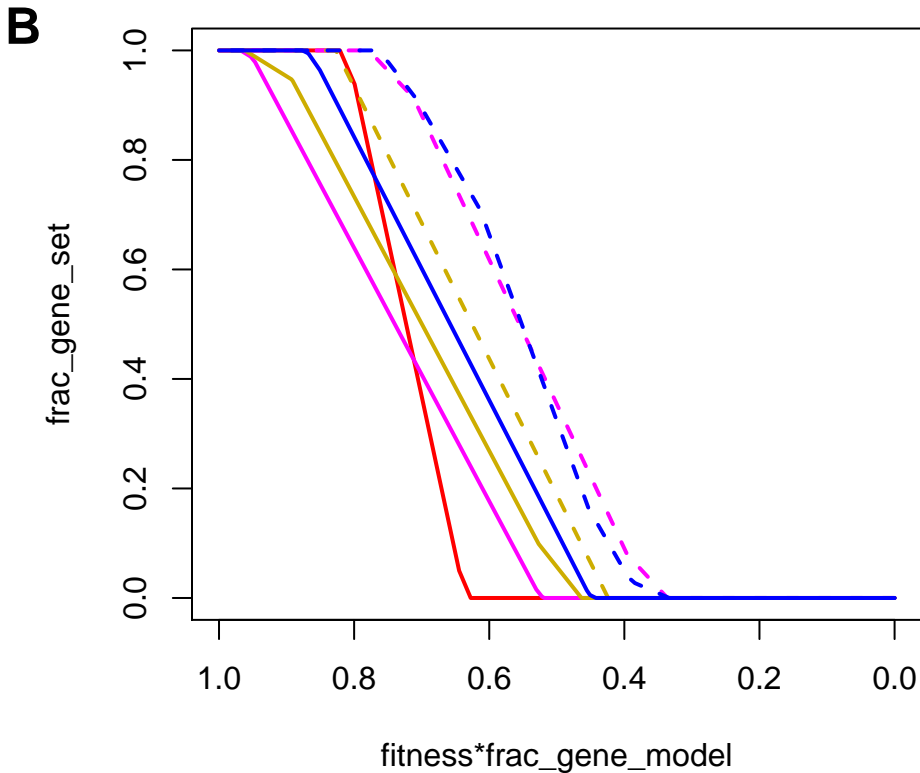
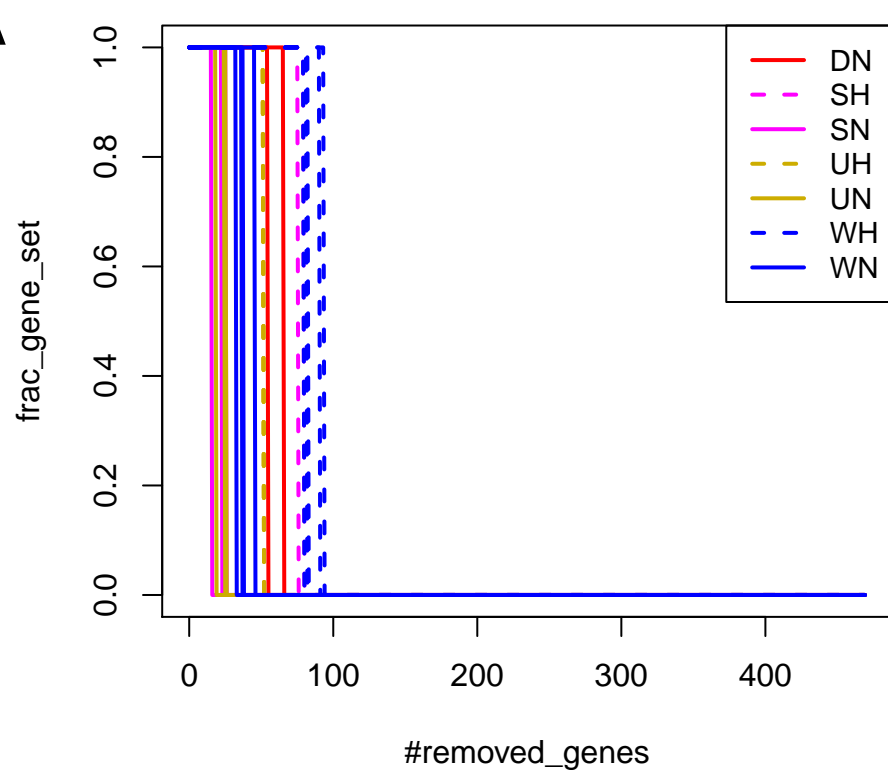
GO:0031579, membrane raft organization

$E = 0.18$, $p\text{-val} = 0.015$



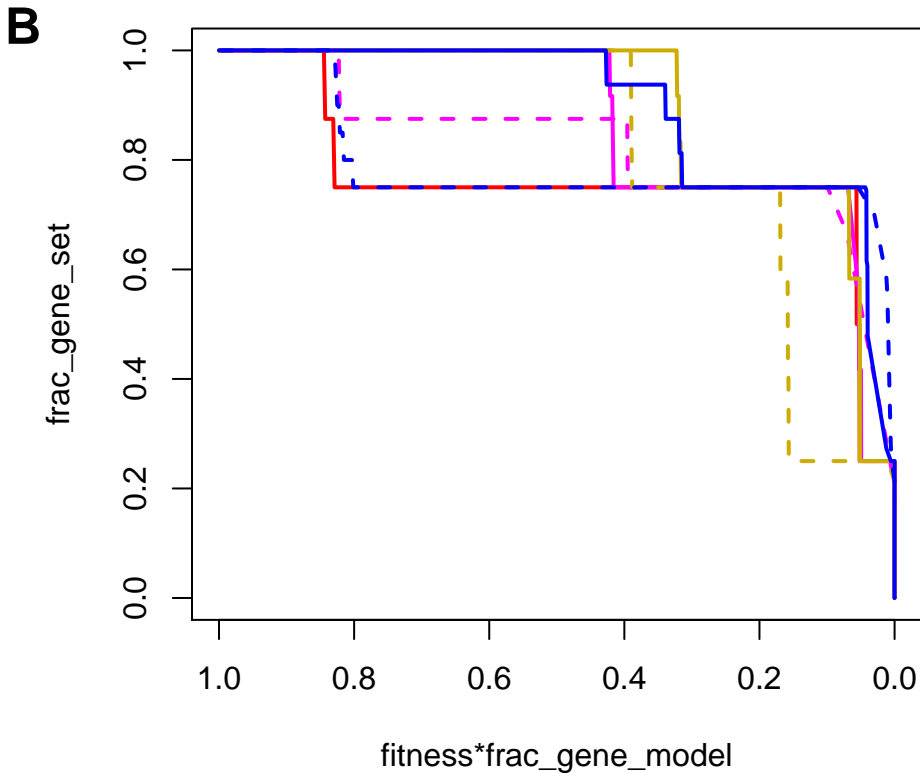
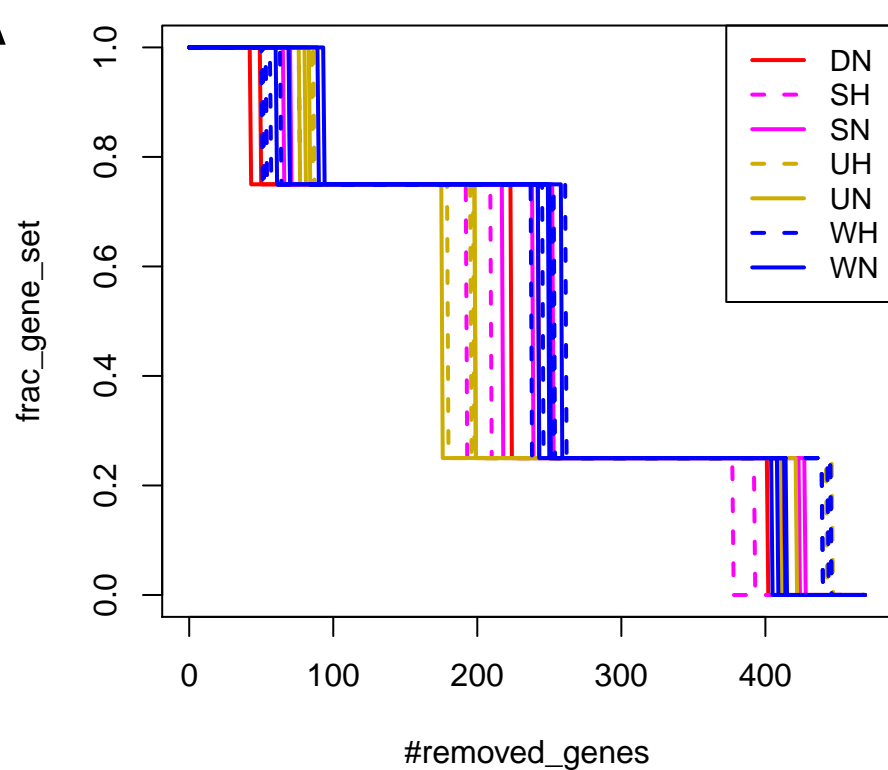
GO:0045337, farnesyl diphosphate bp

$E = 0.18$, $p\text{-val} = 0.014$



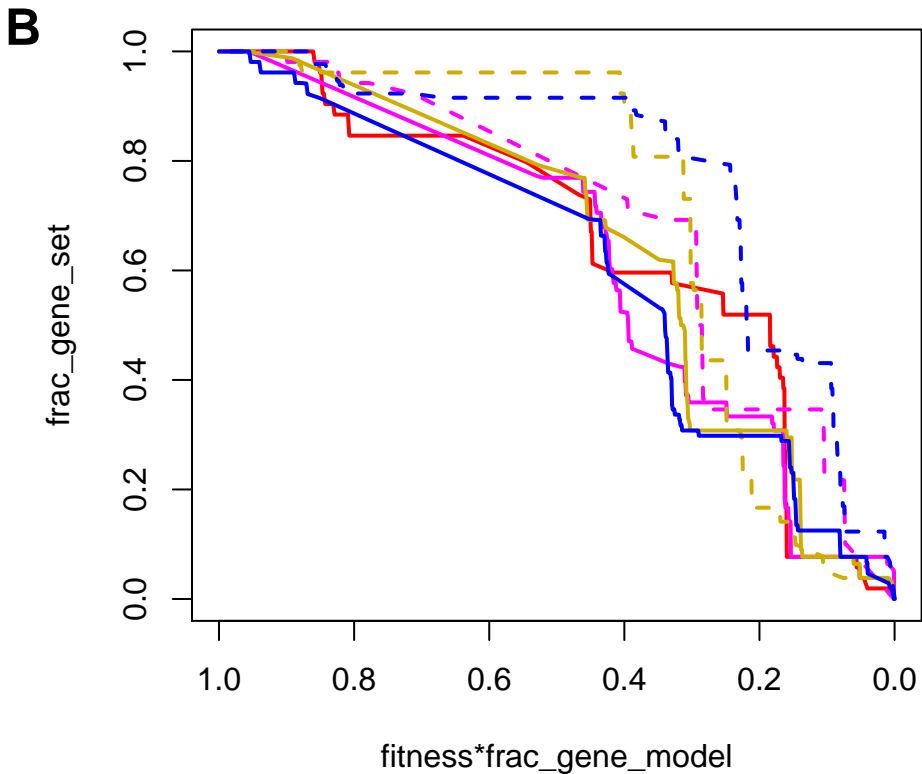
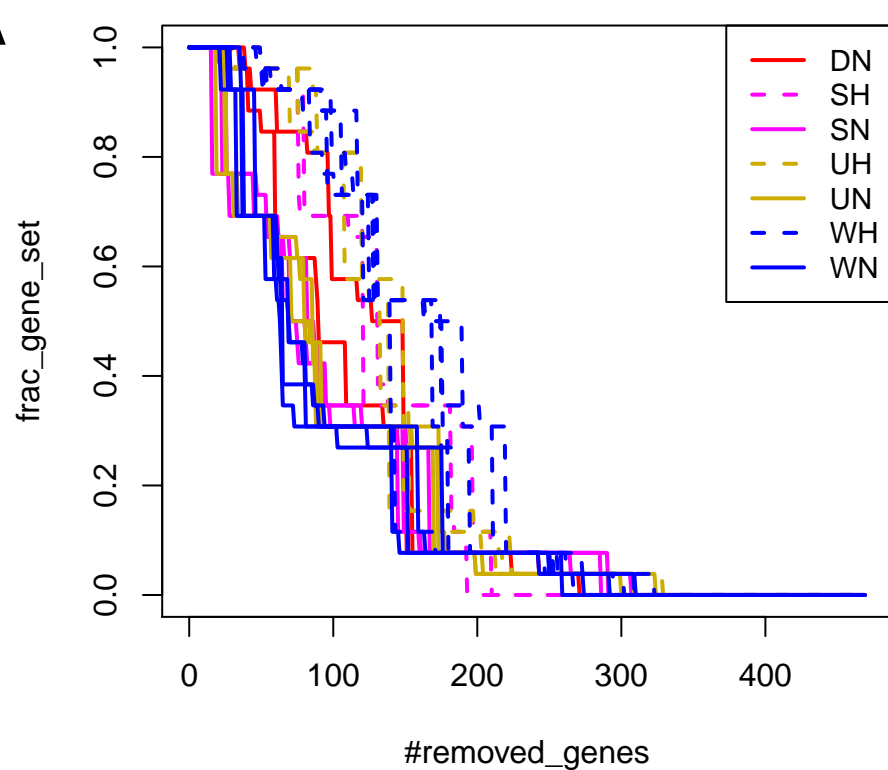
GO:0006537, glutamate bp

E = 0.18, p-val = 0.001



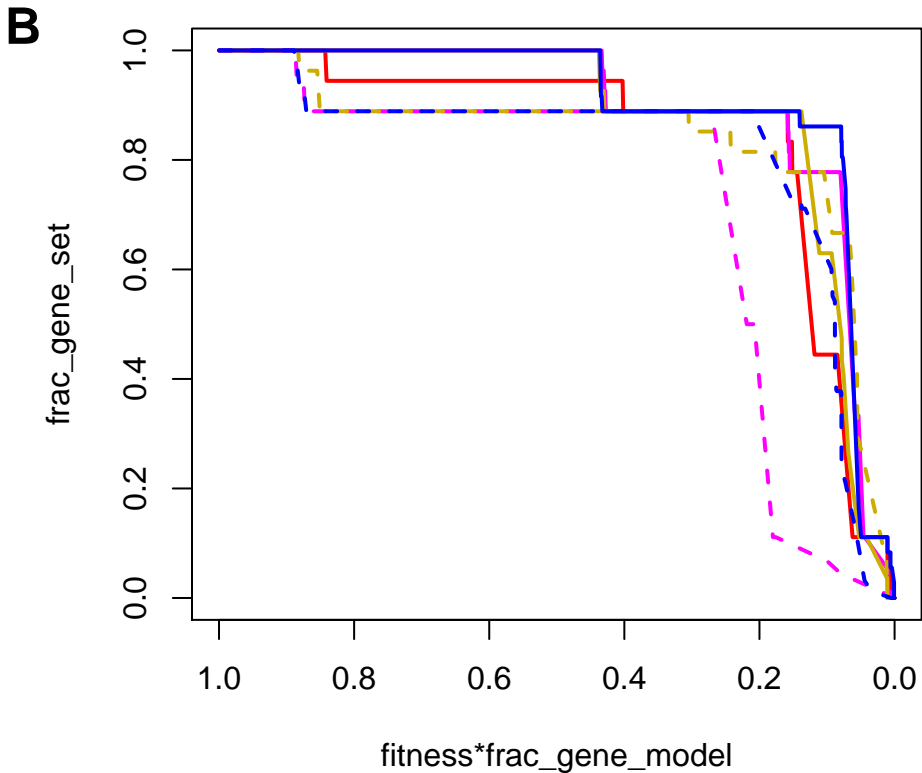
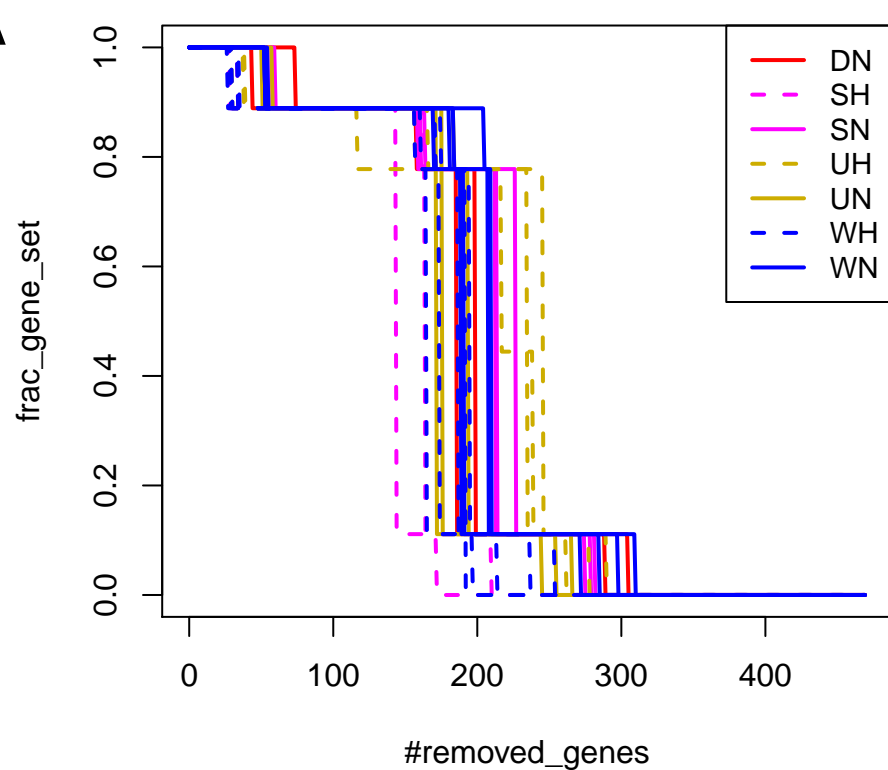
GO:0009067, aspartate family aa bp

$E = 0.18$, $p\text{-val} = 0.007$



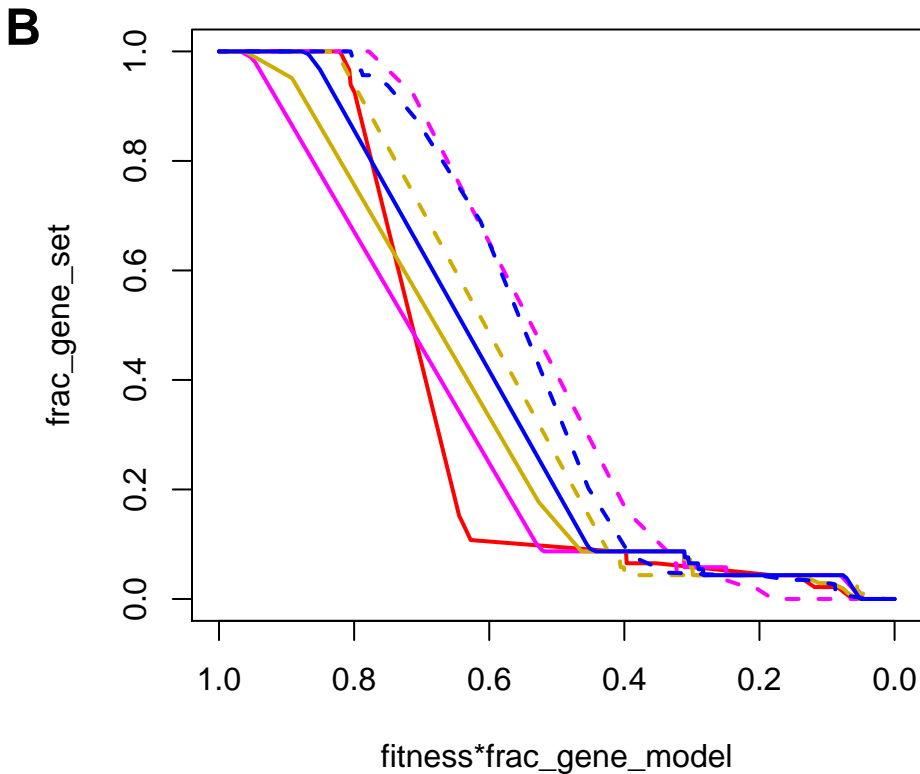
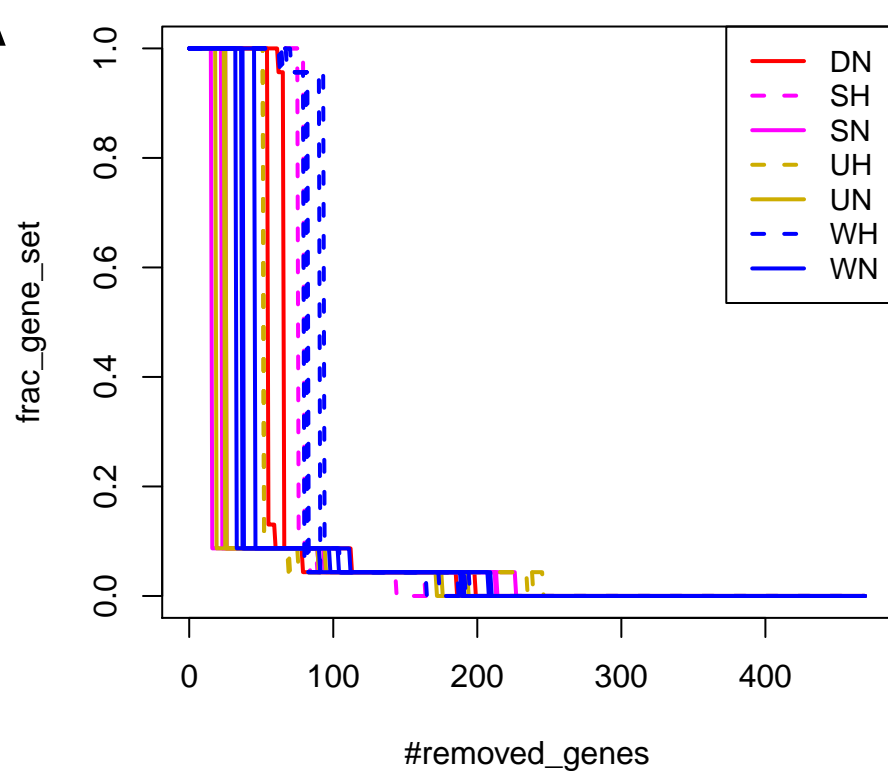
GO:0006098, pentose-phosphate shunt

$E = 0.18$, $p\text{-val} = 0.004$



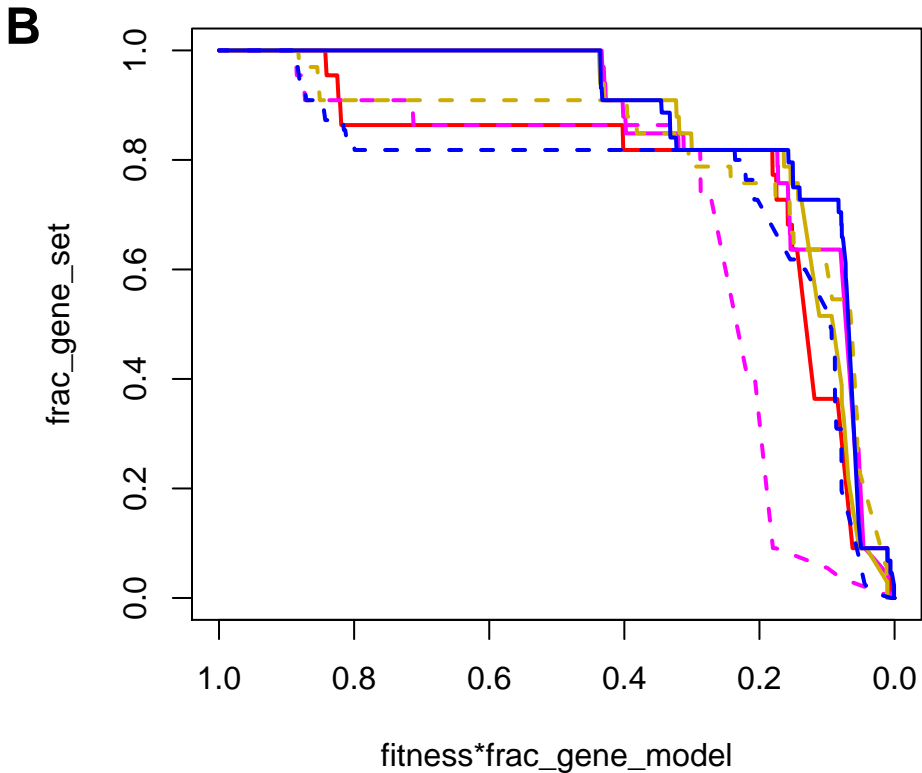
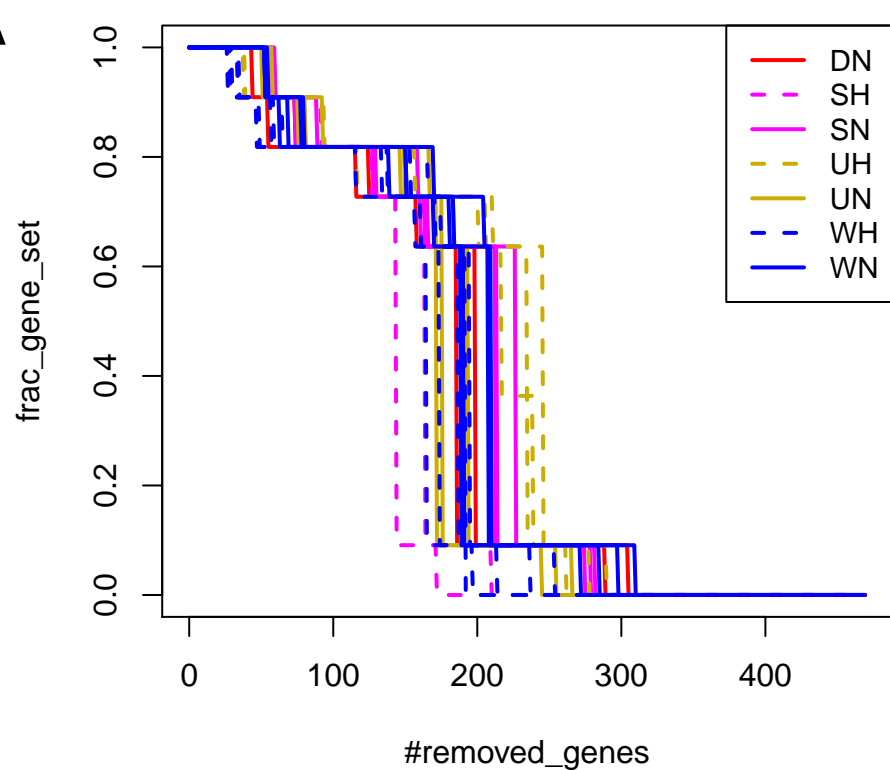
GO:1901617, organic hydroxy compound bp

$E = 0.18$, $p\text{-val} = 0.003$



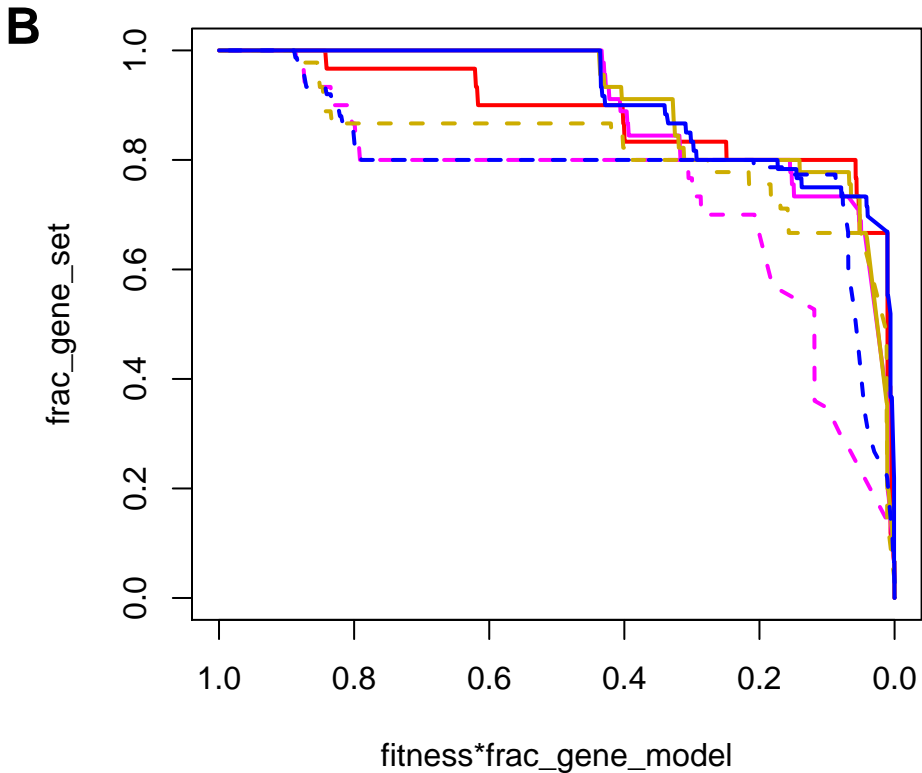
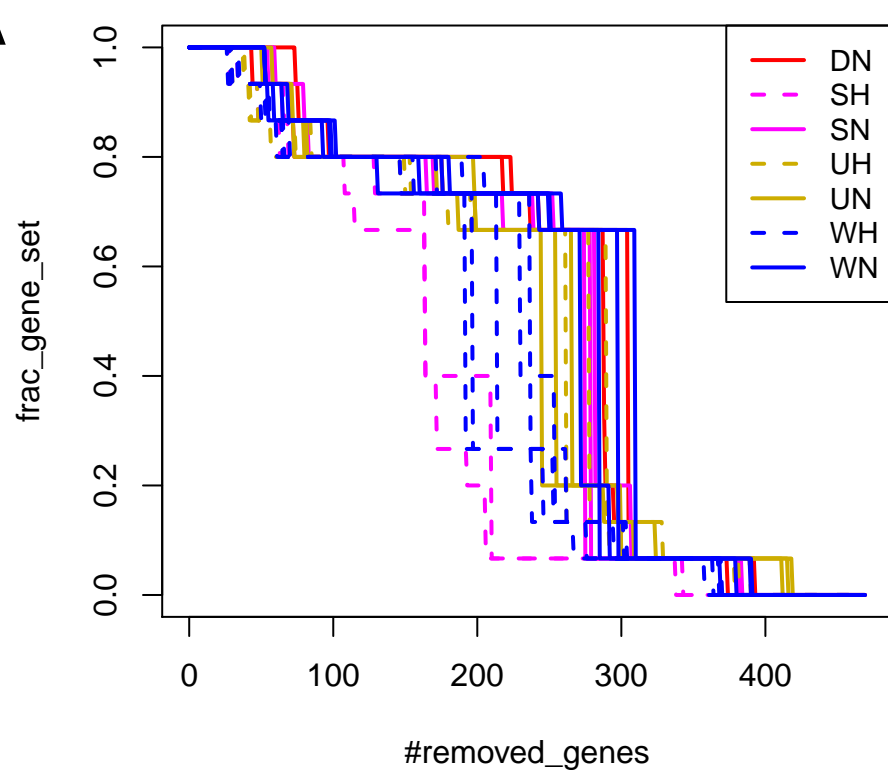
GO:0006739, NADP mp

E = 0.18, p-val = 0.003



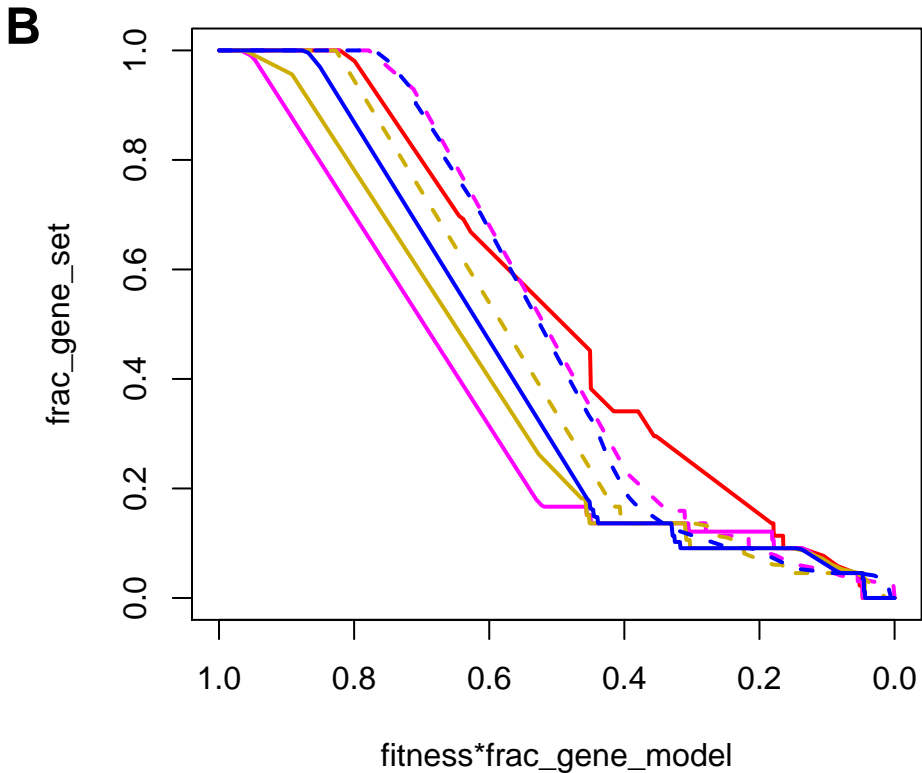
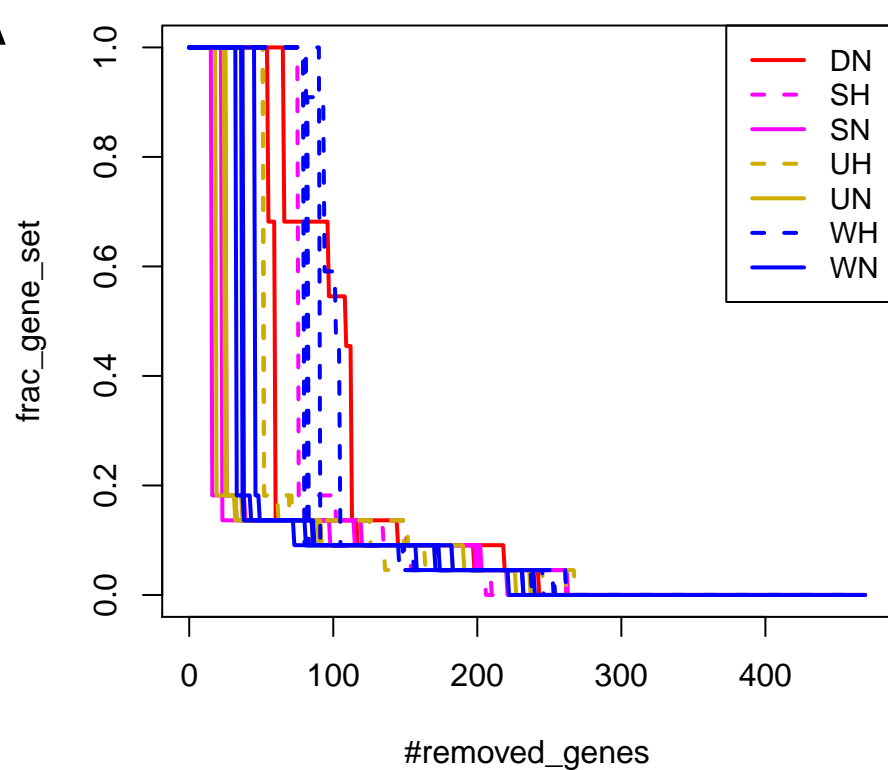
GO:0046031, ADP mp

E = 0.17, p-val = 0.001



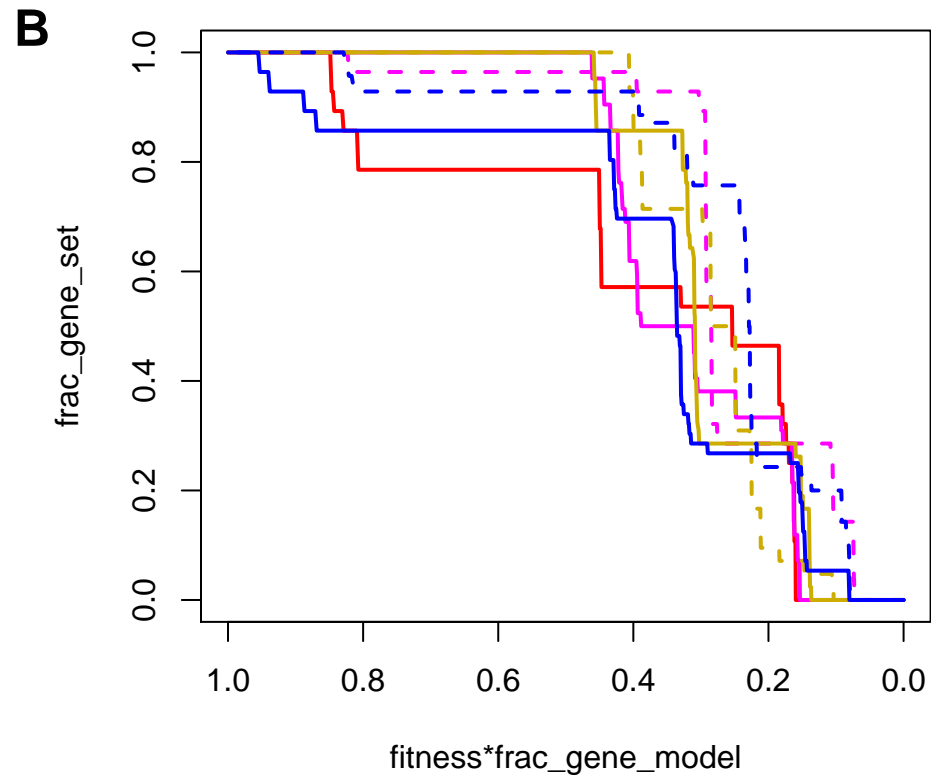
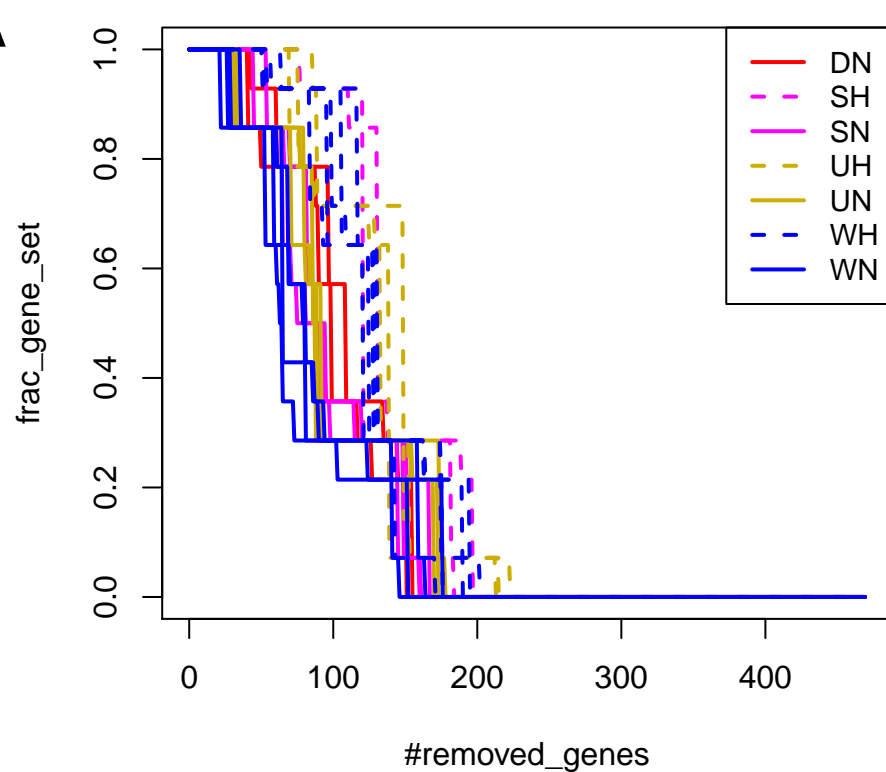
GO:0008654, phospholipid bp

$E = 0.17$, $p\text{-val} = 0.026$



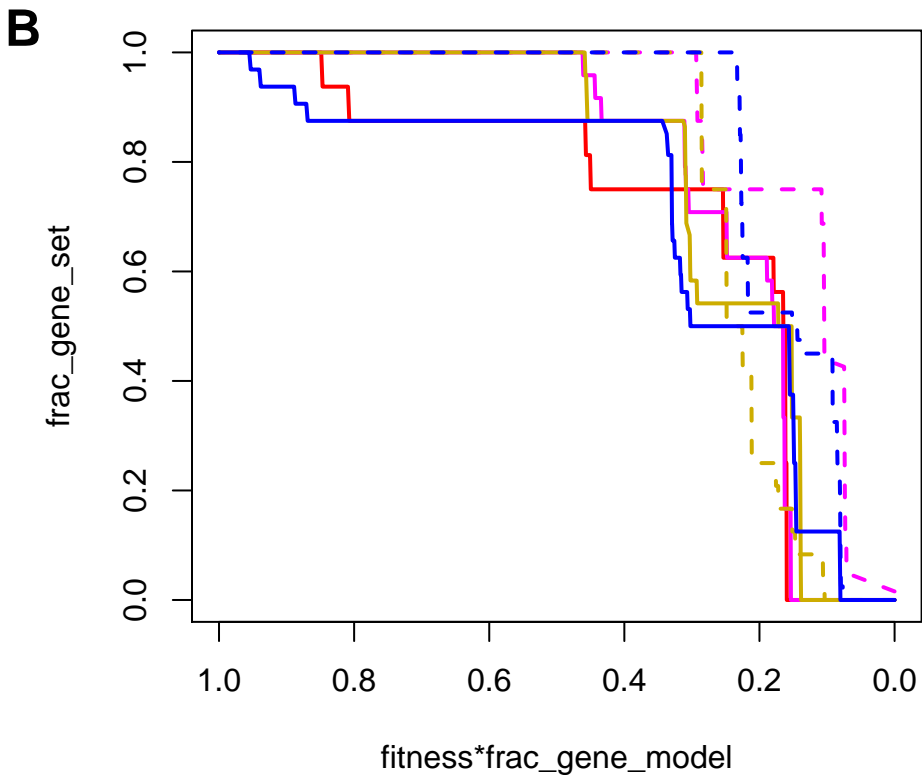
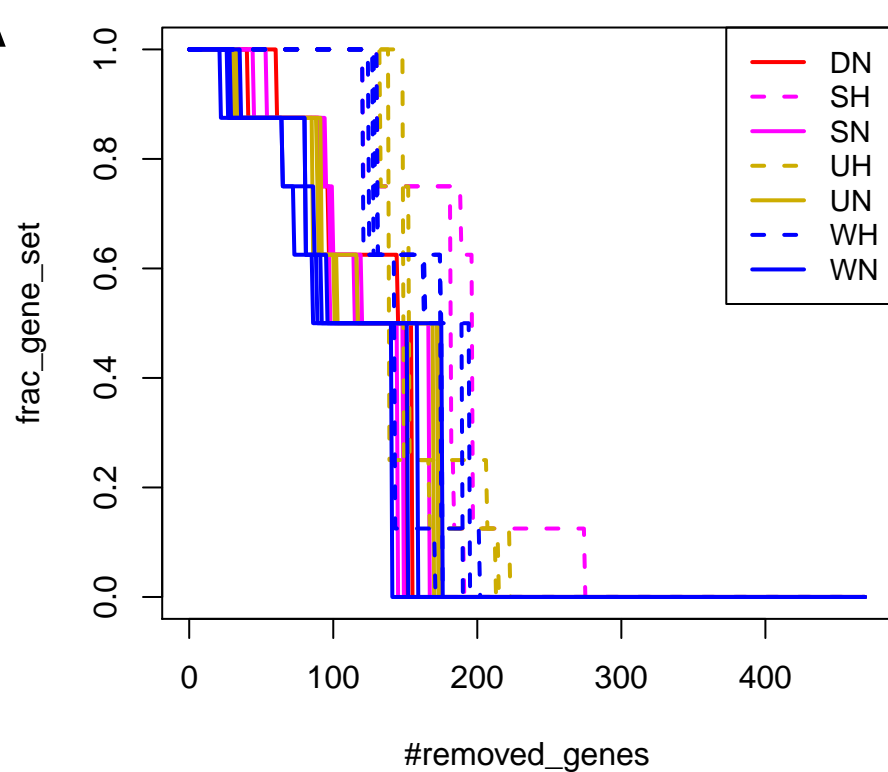
GO:0009086, methionine bp

$E = 0.17$, $p\text{-val} = 0.005$



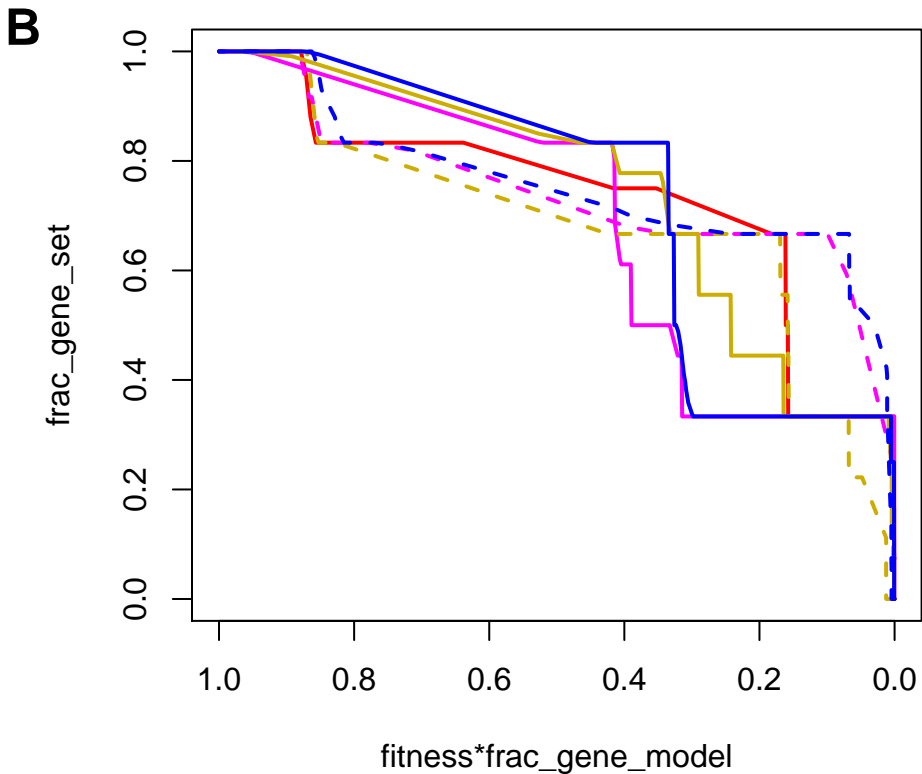
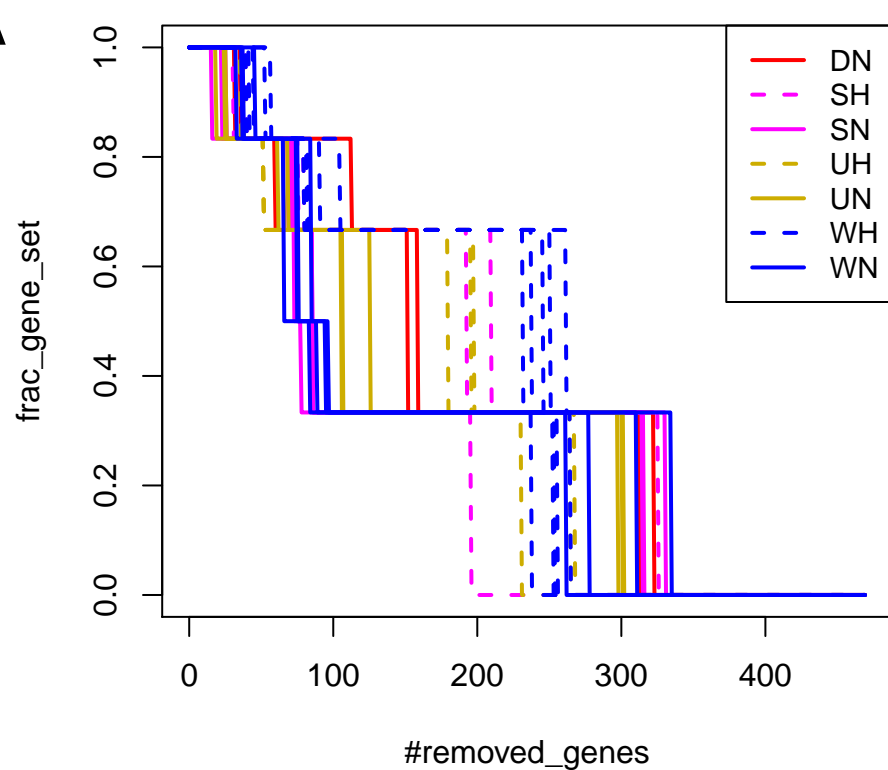
GO:0009092, homoserine mp

E = 0.17, p-val = 0.006



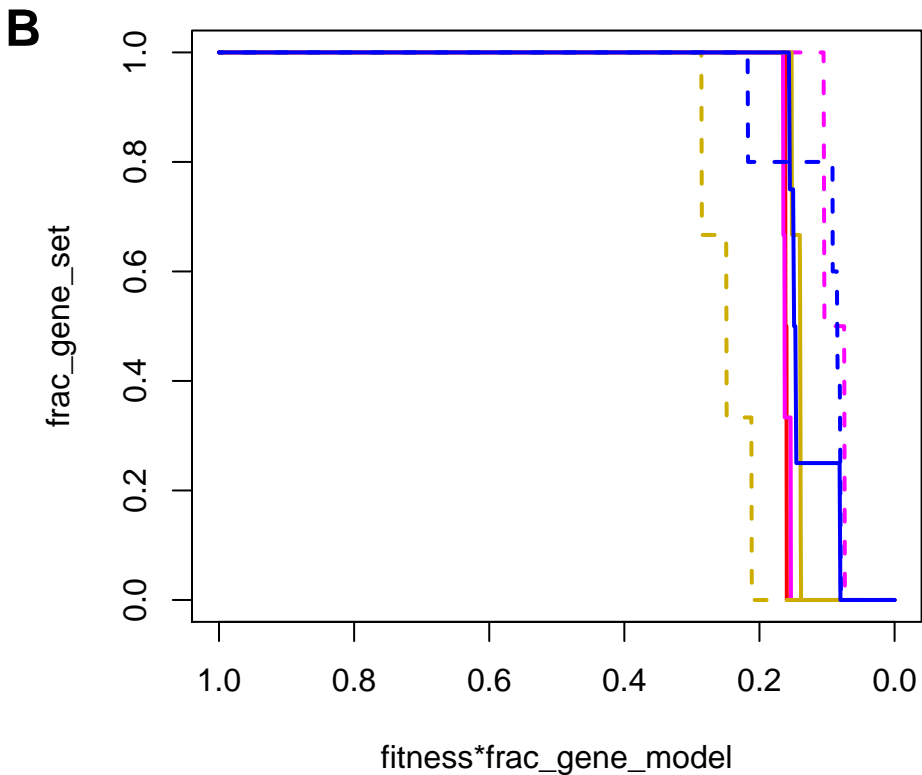
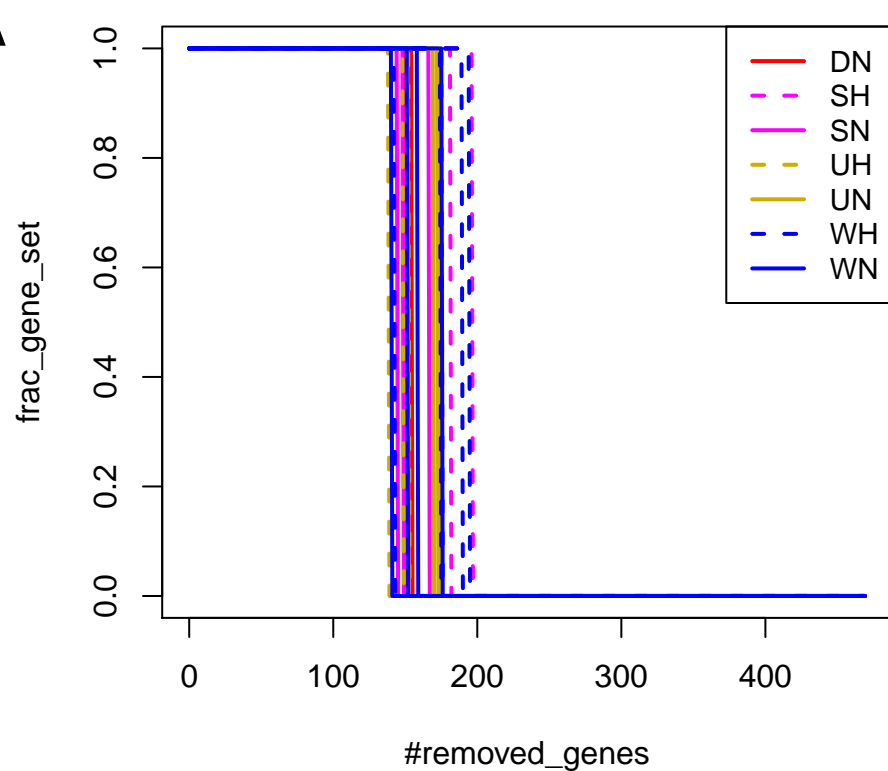
GO:0006544, glycine mp

$E = 0.16$, $p\text{-val} = 0.014$



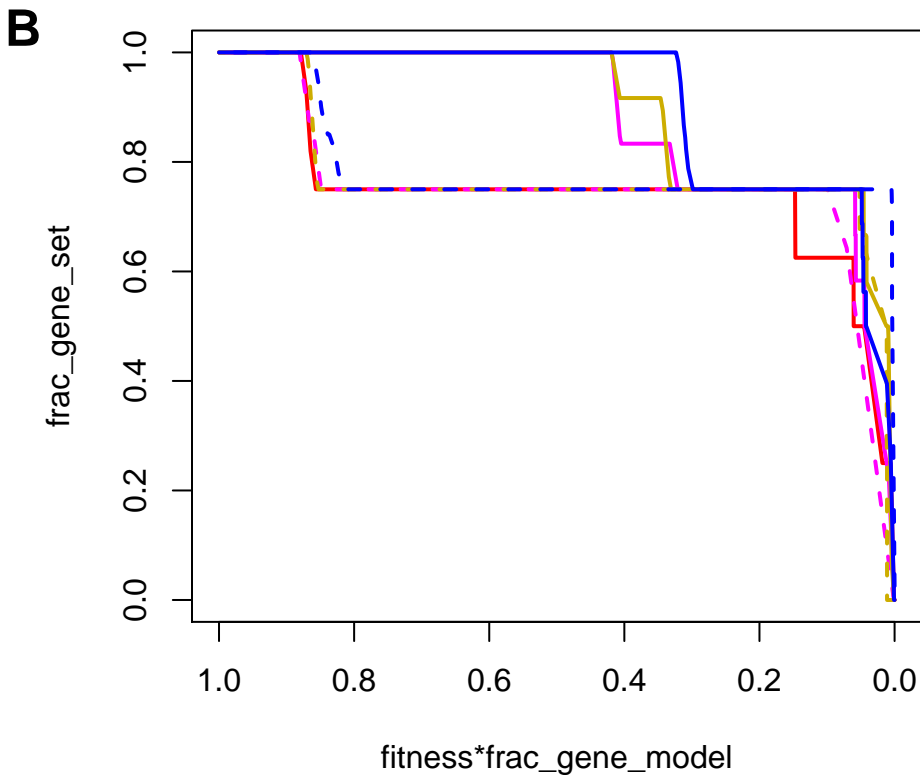
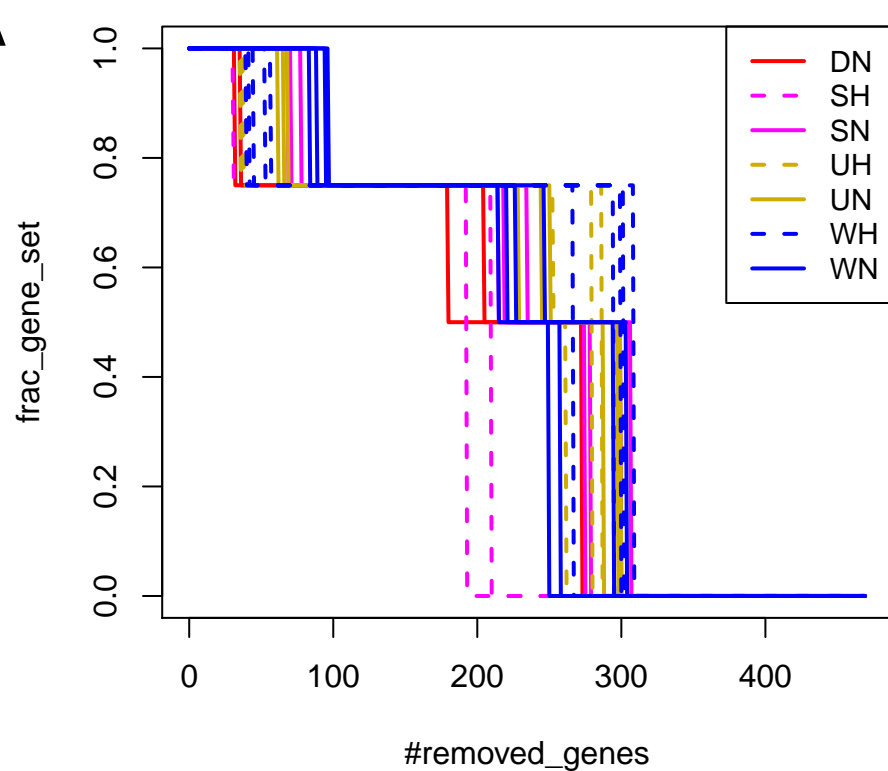
GO:0009088, threonine bp

E = 0.16, p-val = 0.005



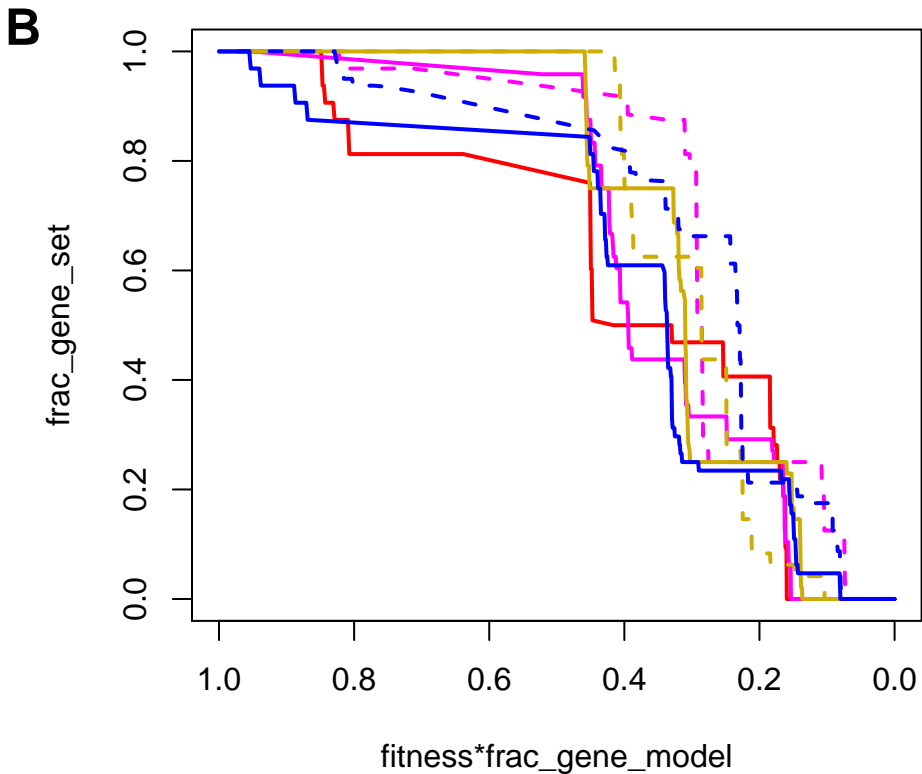
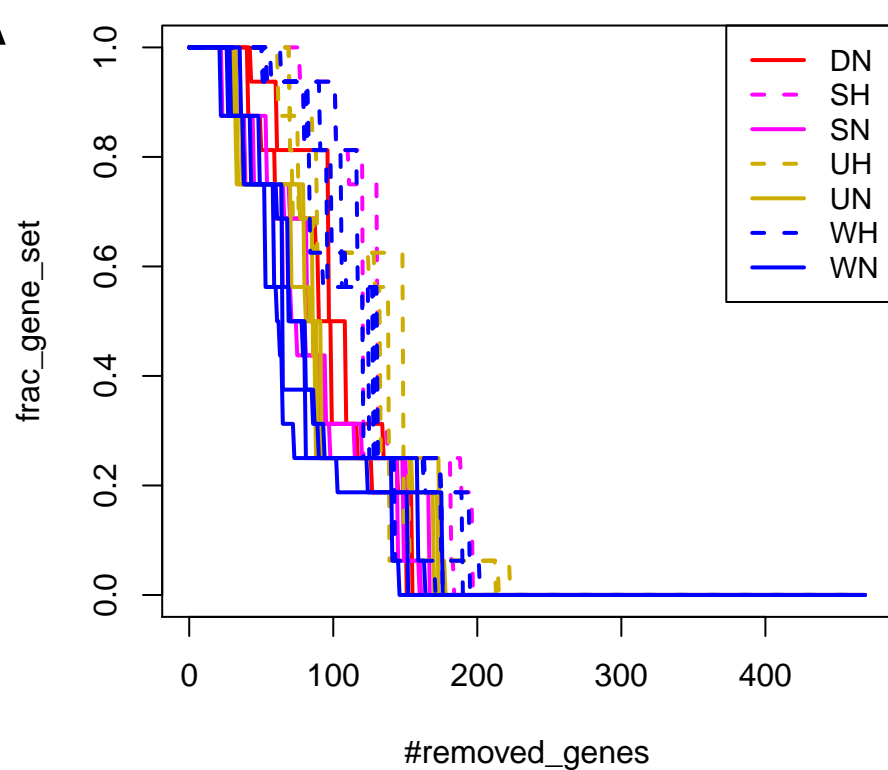
GO:0009396, folic acid-containing compound bp

$E = 0.16$, $p\text{-val} = 0.01$



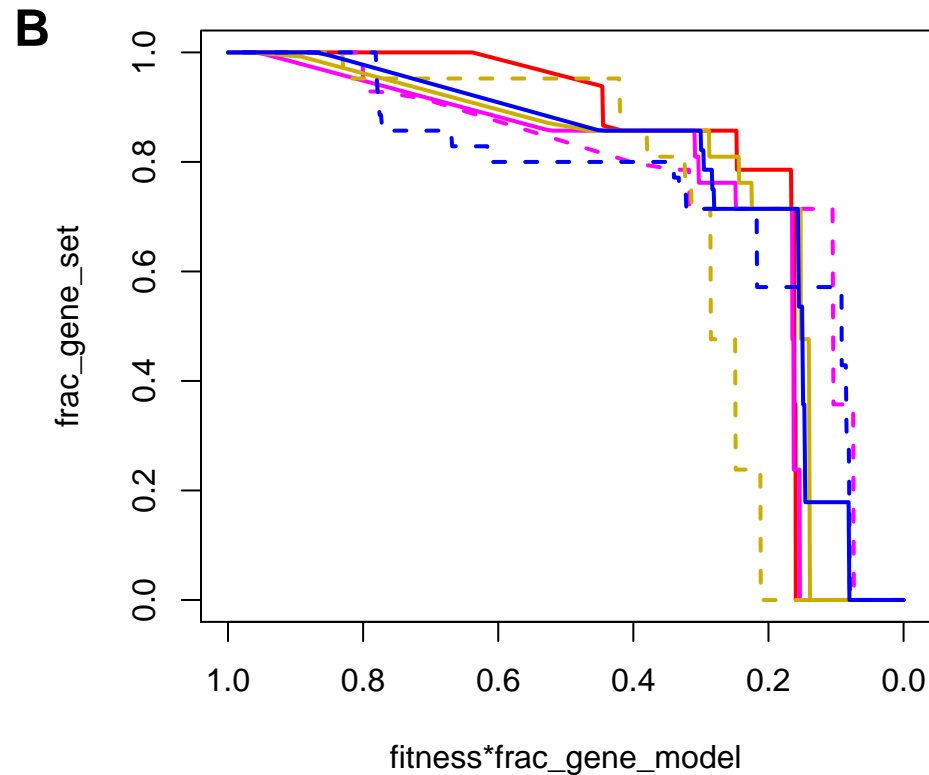
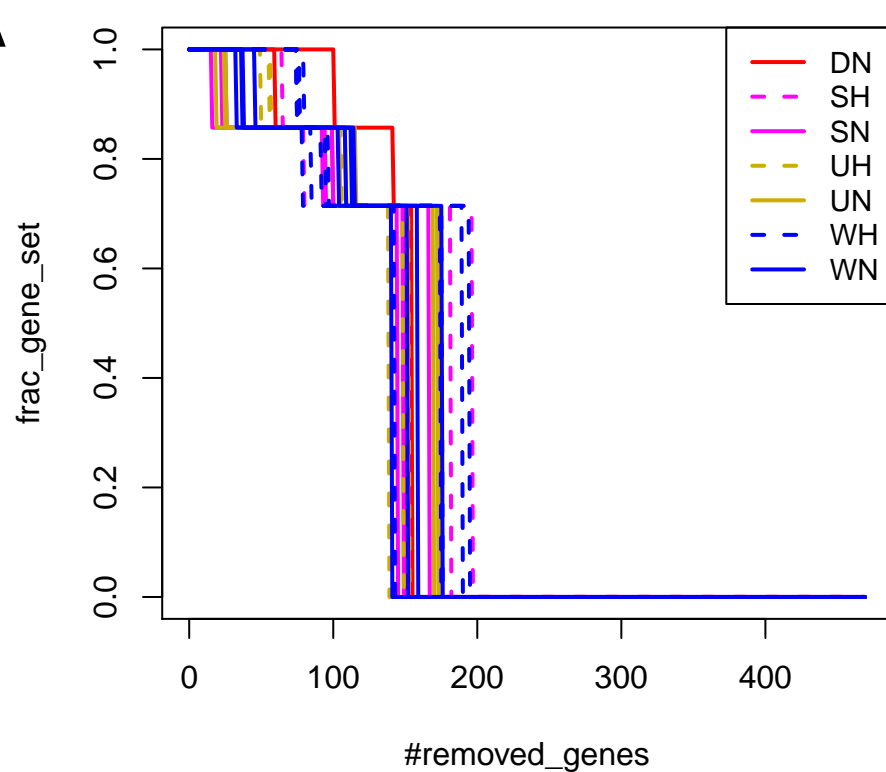
GO:0006555, methionine mp

$E = 0.16$, $p\text{-val} = 0.002$



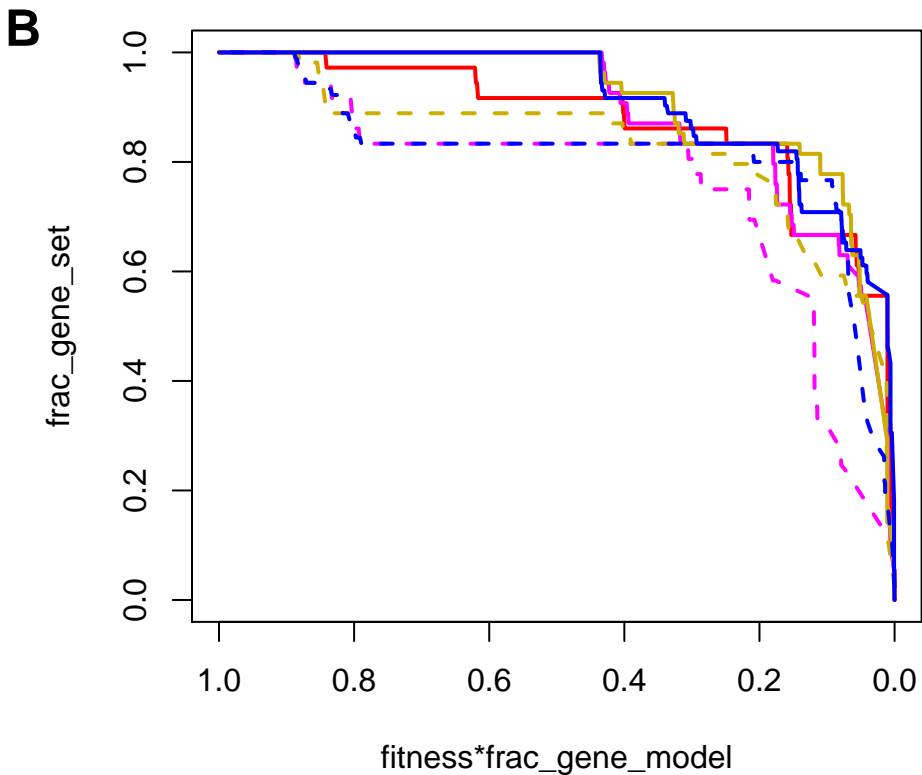
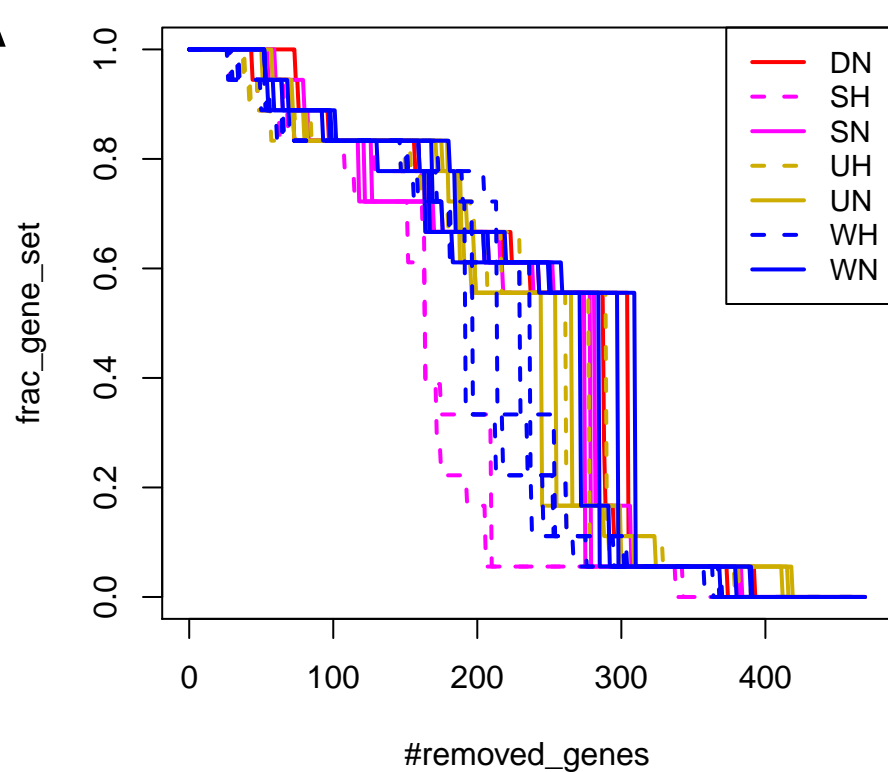
GO:0006566, threonine mp

$E = 0.15$, $p\text{-val} = 0.012$



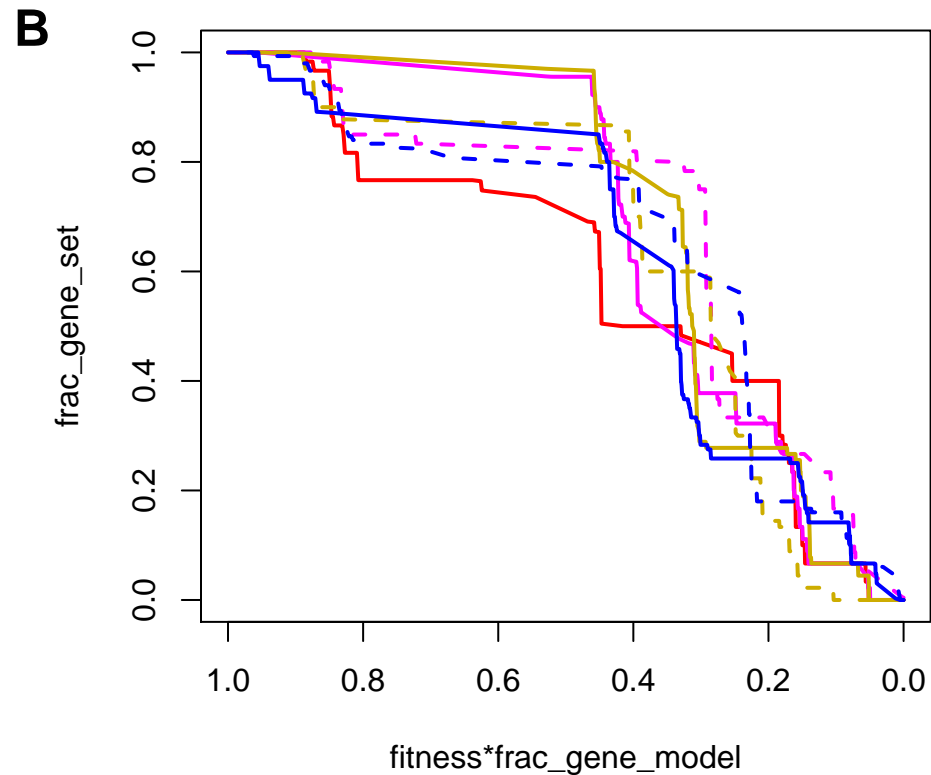
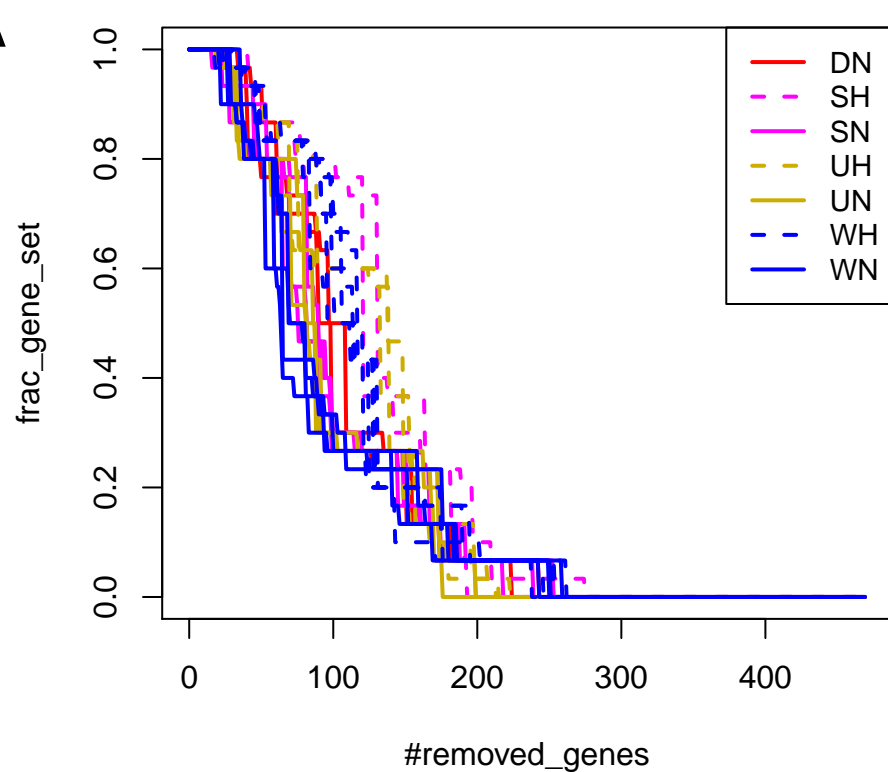
GO:0009185, ribonucleoside diphosphate mp

$E = 0.15$, $p\text{-val} = 0.002$



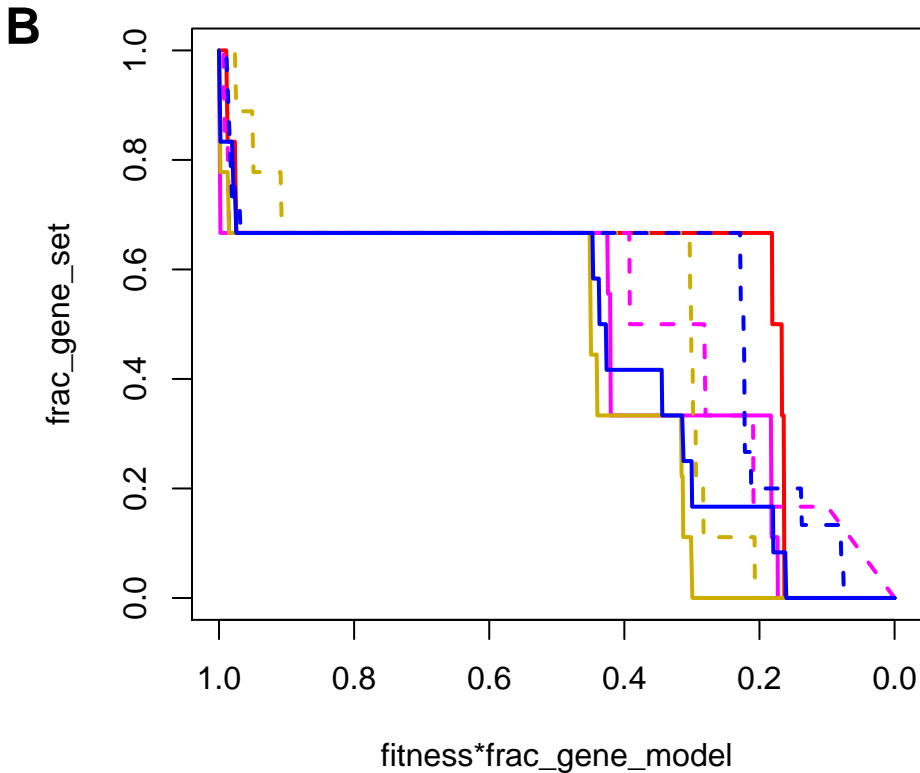
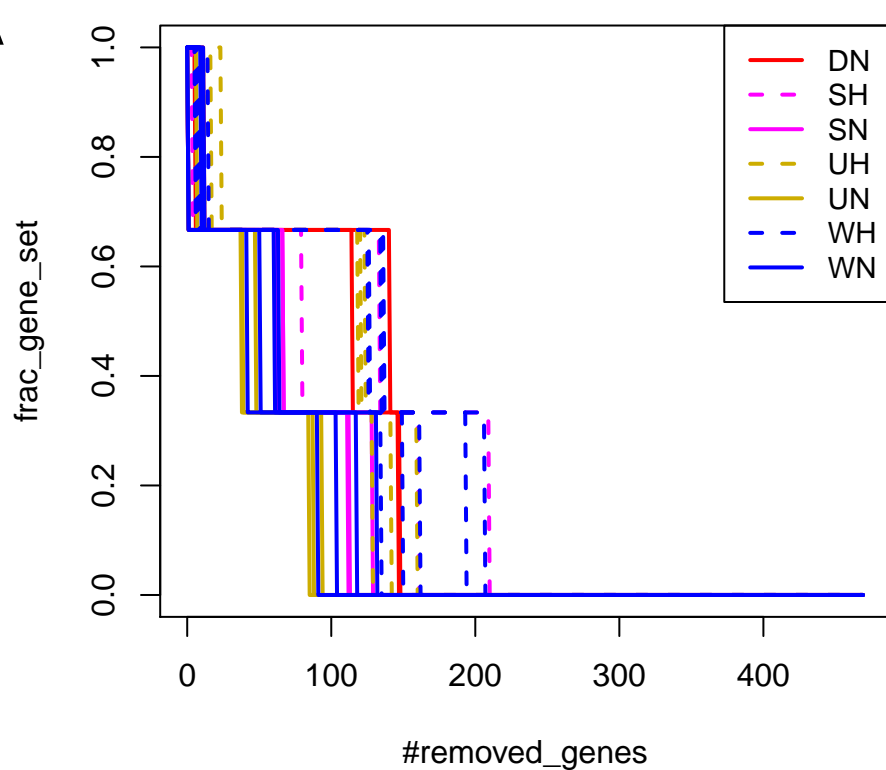
GO:0044272, sulfur compound bp

E = 0.15, p-val = 0.001



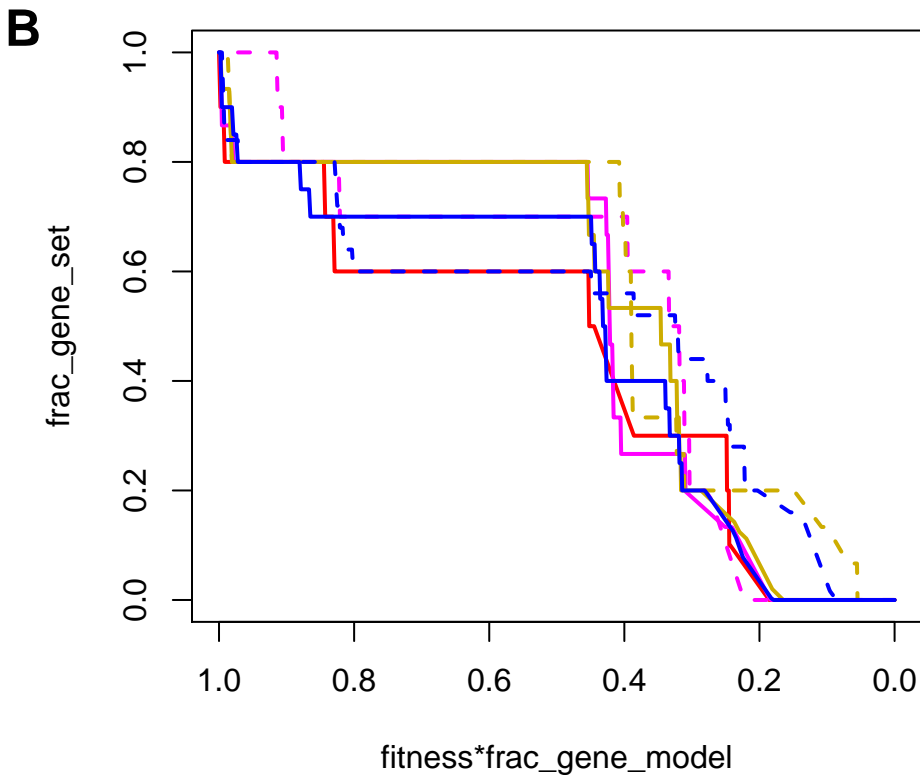
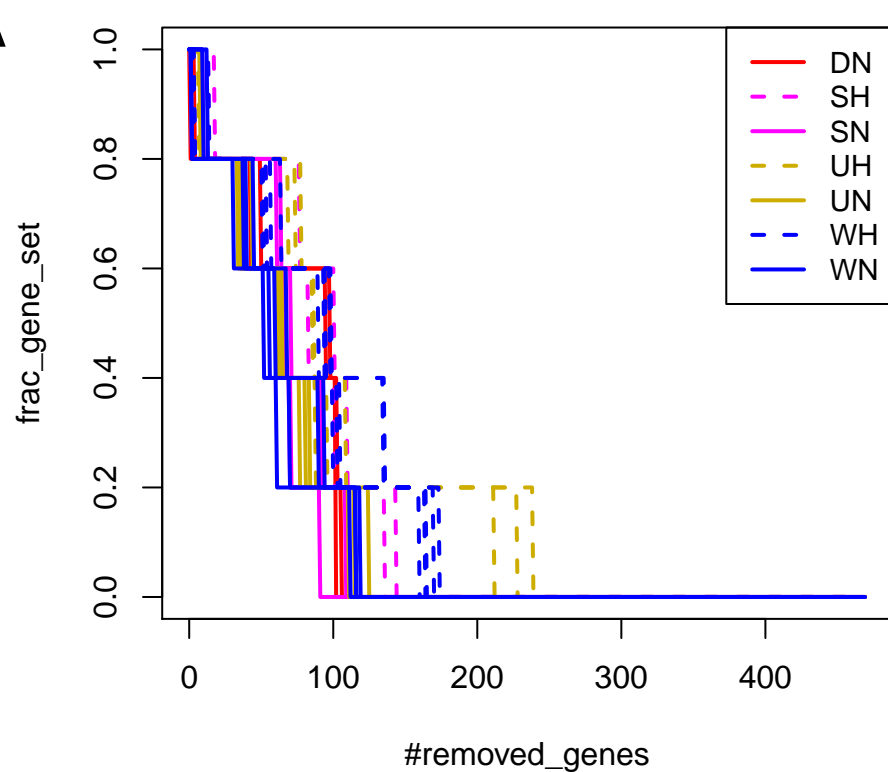
GO:0015804, neutral aa transport

$E = 0.14$, $p\text{-val} = 0.004$



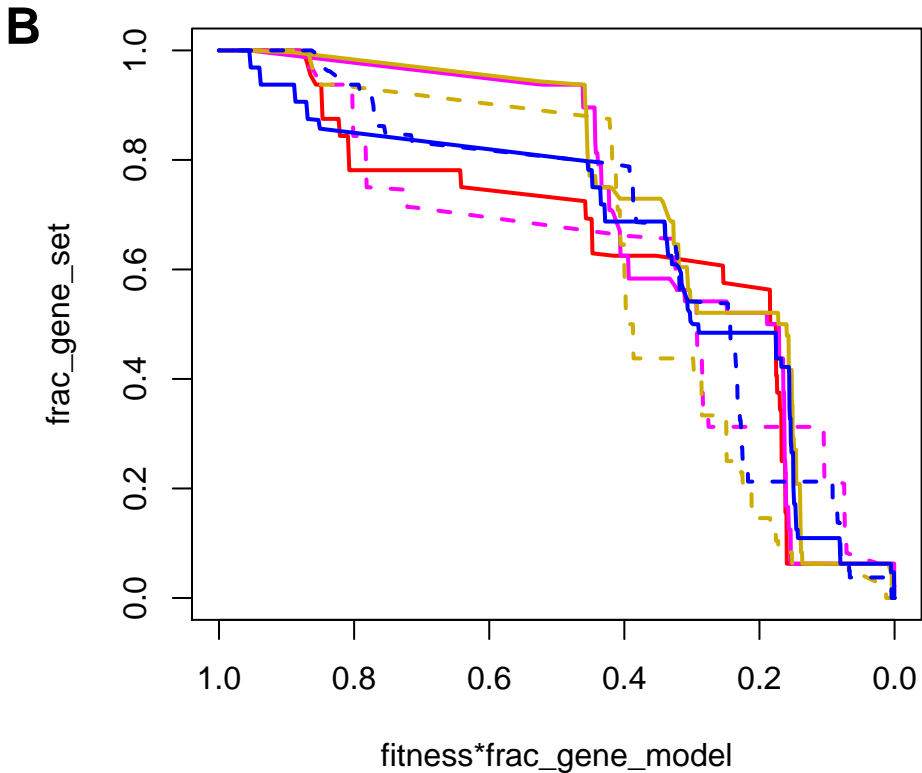
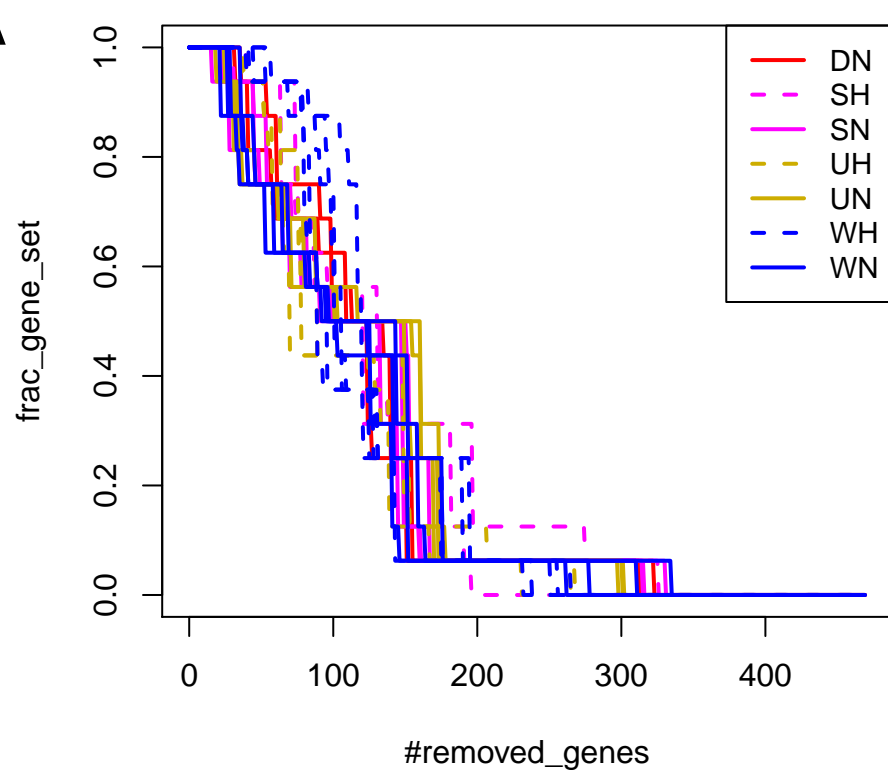
GO:0008655, pyrimidine-containing compound salvage

$E = 0.14$, $p\text{-val} = 0.028$



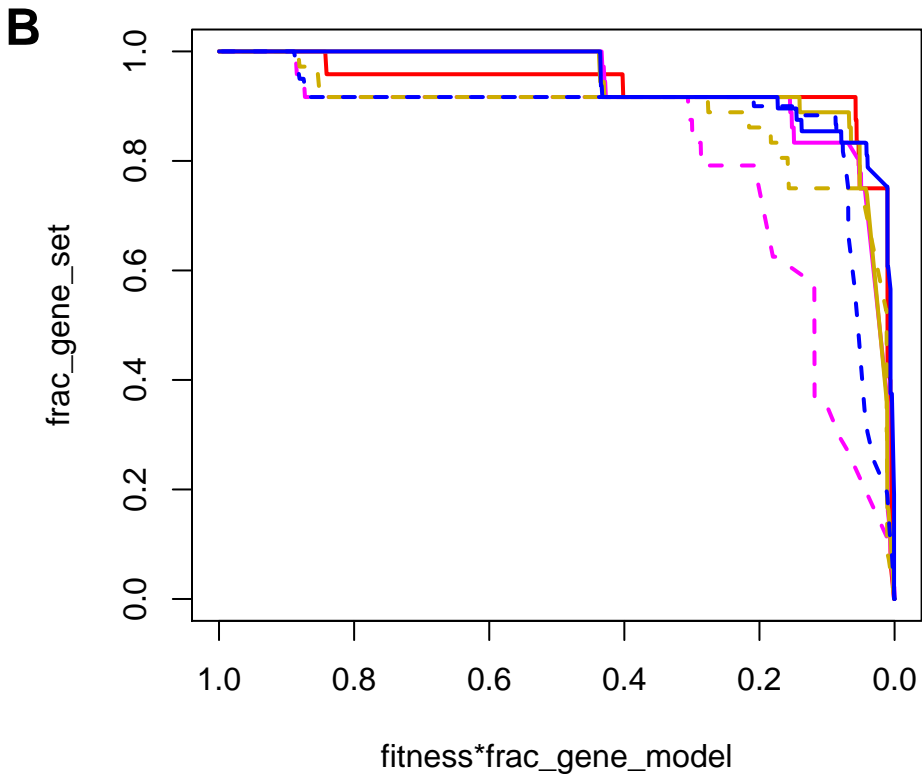
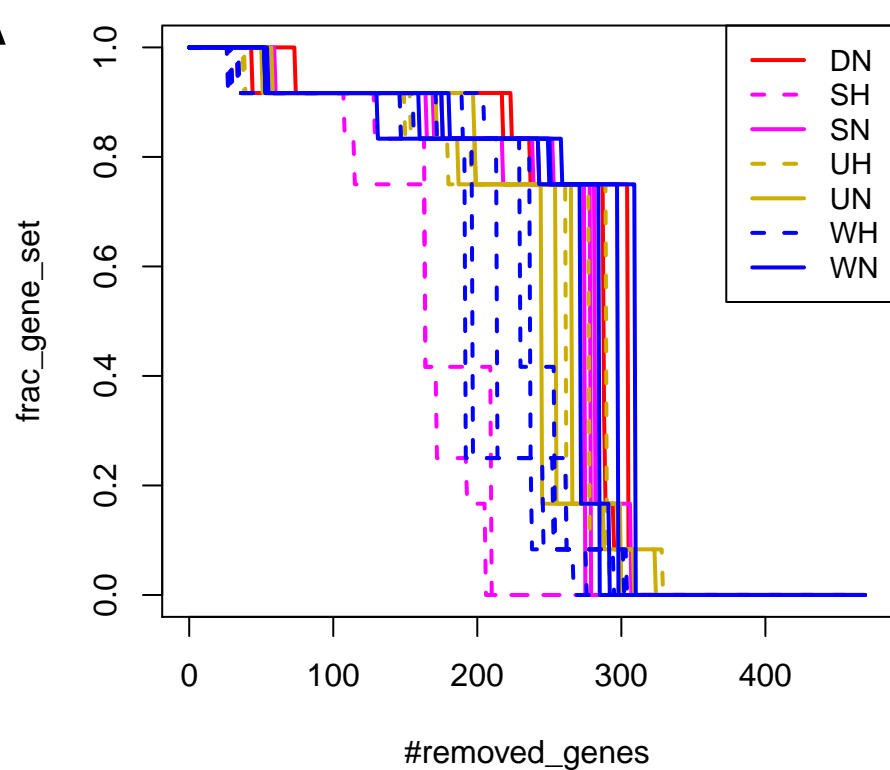
GO:0009070, serine family aa bp

$E = 0.14$, $p\text{-val} = 0.004$



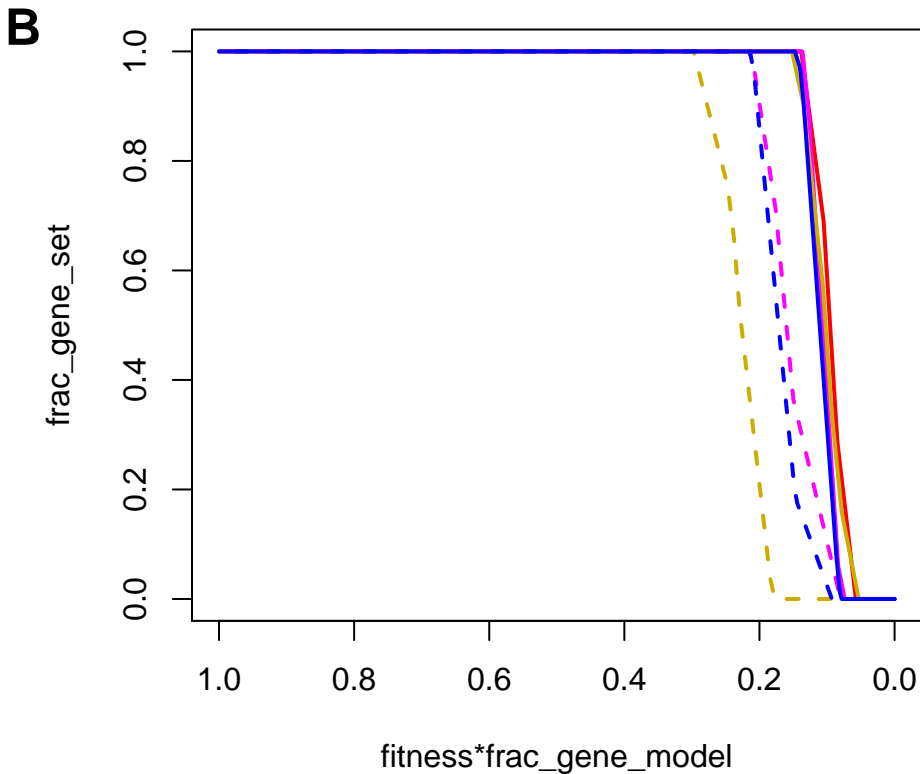
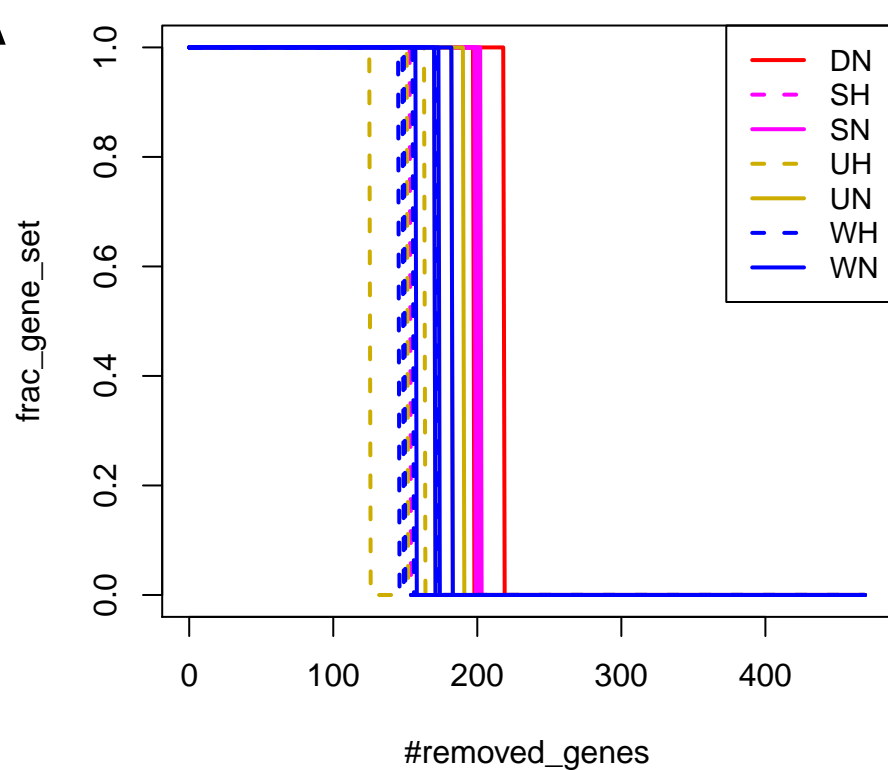
GO:0006096, glycolytic process

$E = 0.14$, $p\text{-val} = 0.001$



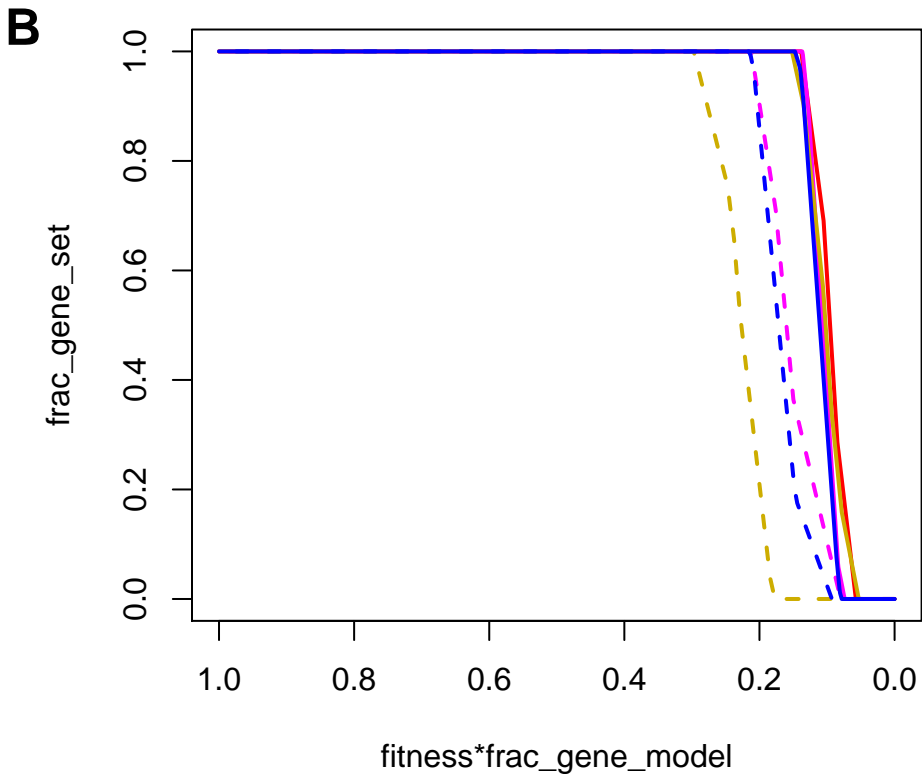
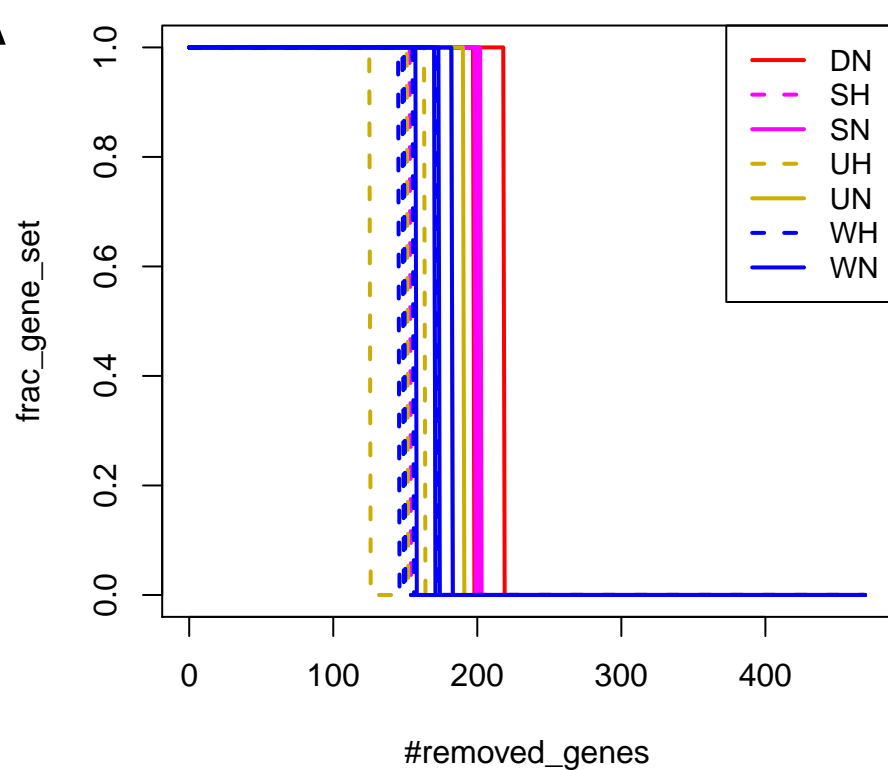
GO:0000032, cell wall mannoprotein bp

$E = 0.13$, $p\text{-val} = 0.008$



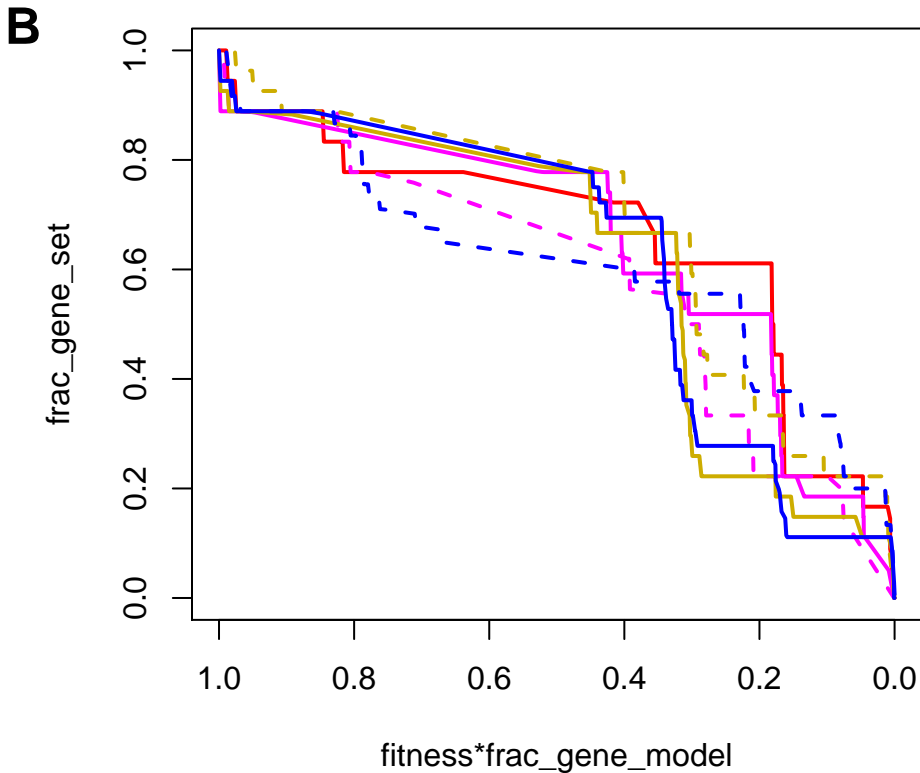
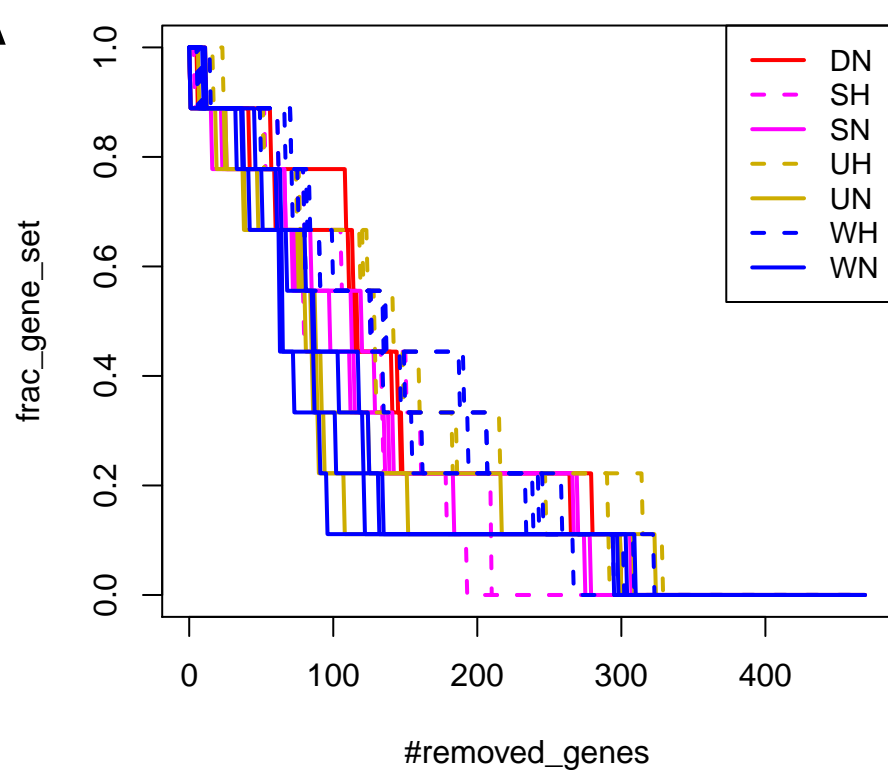
GO:0009226, nucleotide-sugar bp

E = 0.13, p-val = 0.007



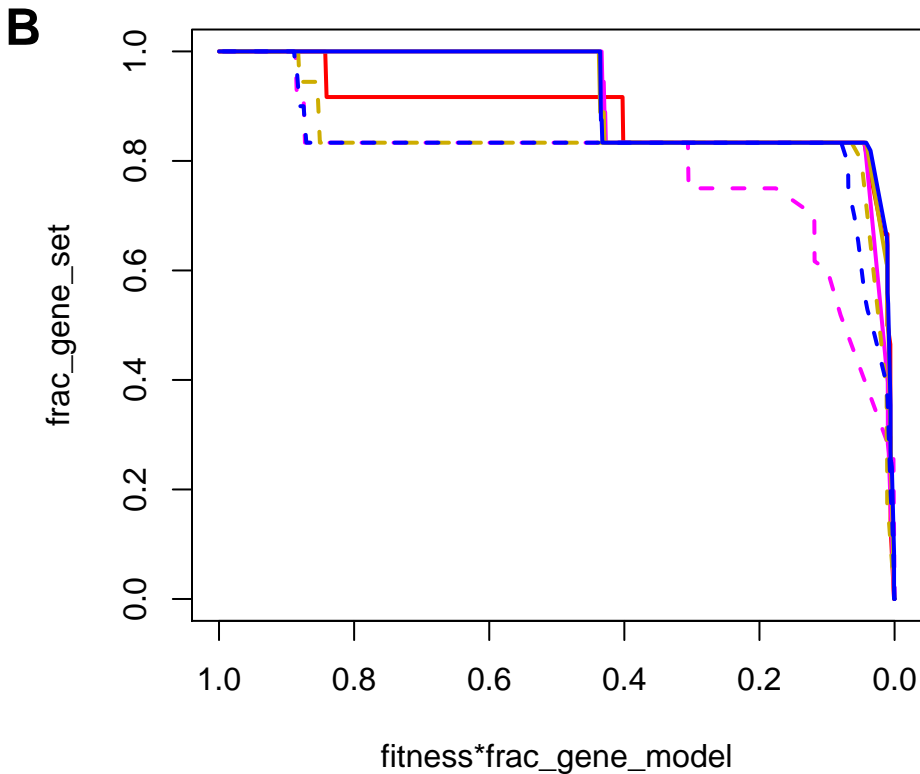
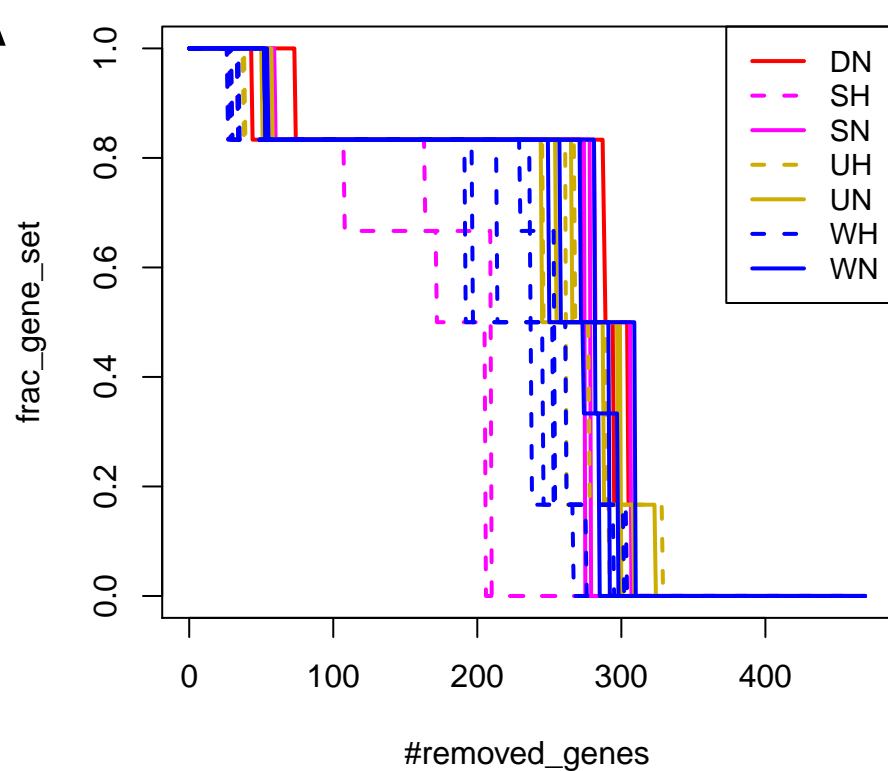
GO:1905039, carboxylic acid tt

$E = 0.13$, $p\text{-val} = 0.025$



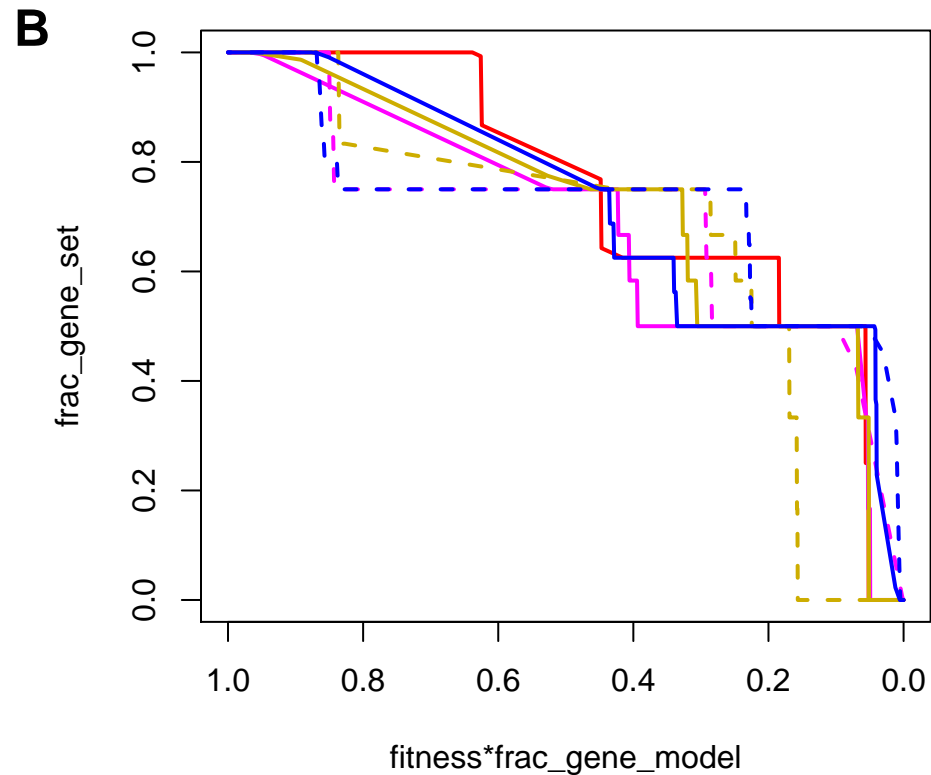
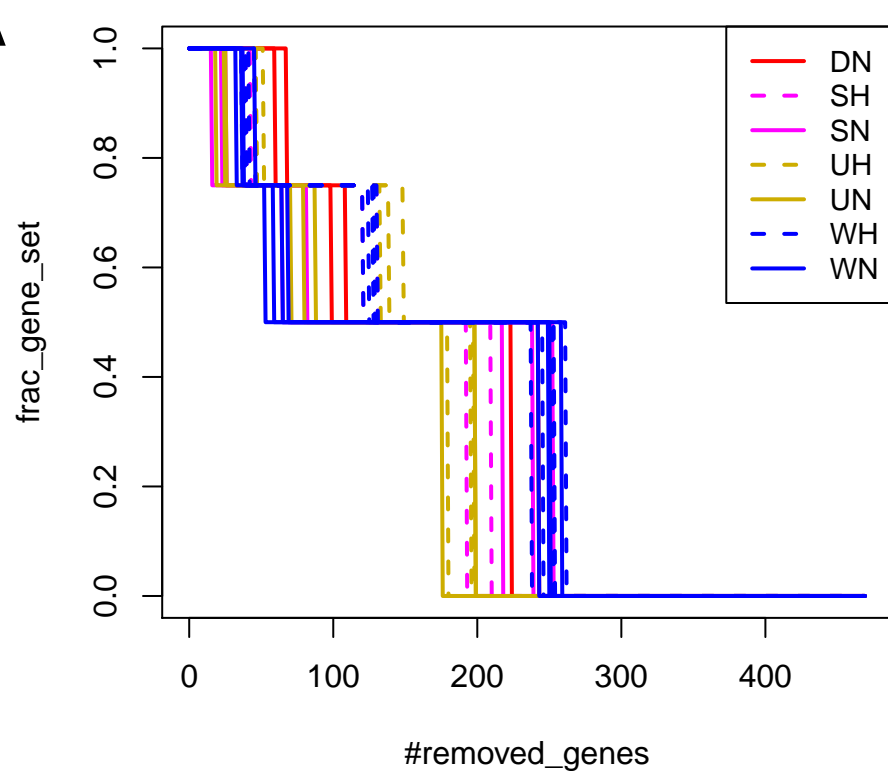
GO:0006094, gluconeogenesis

$E = 0.13$, $p\text{-val} = 0.005$



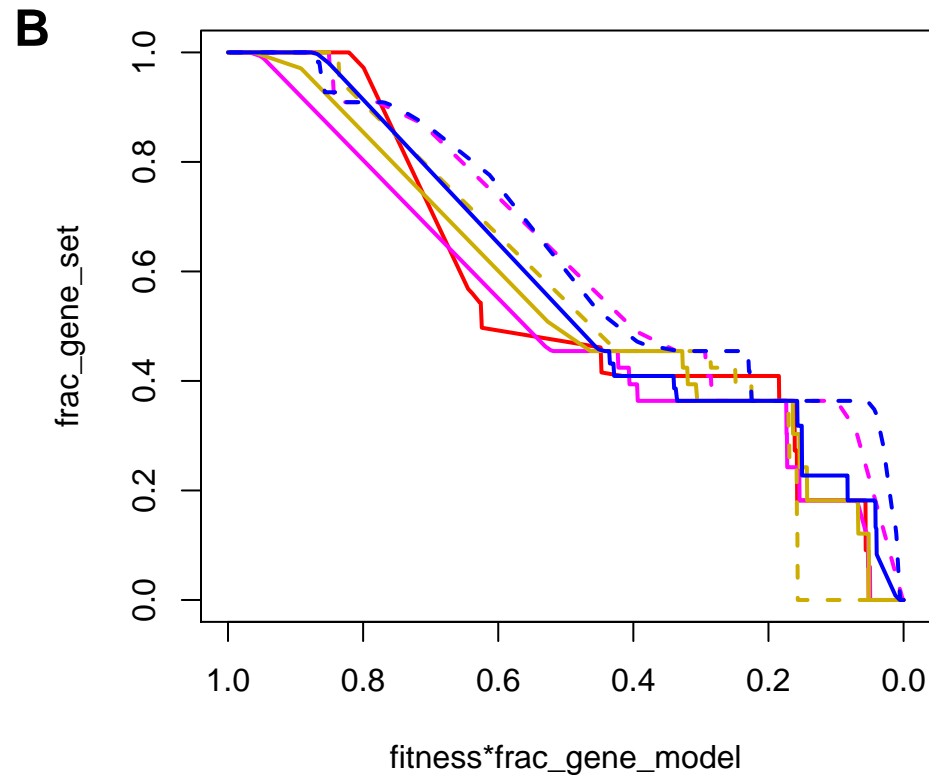
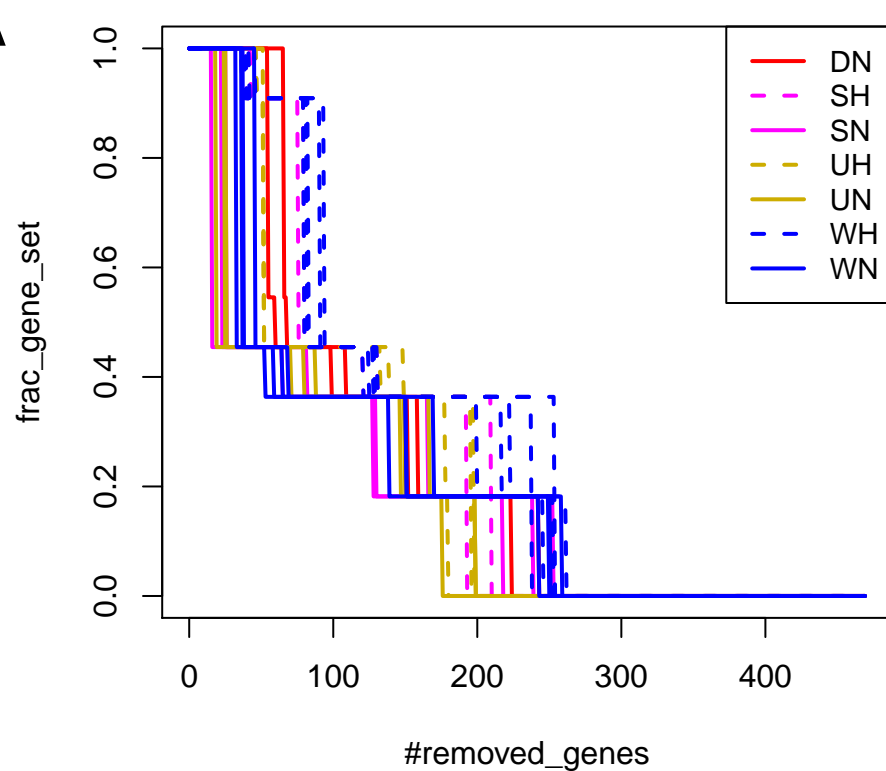
GO:0006085, acetyl-CoA bp

$E = 0.13$, $p\text{-val} = 0.014$



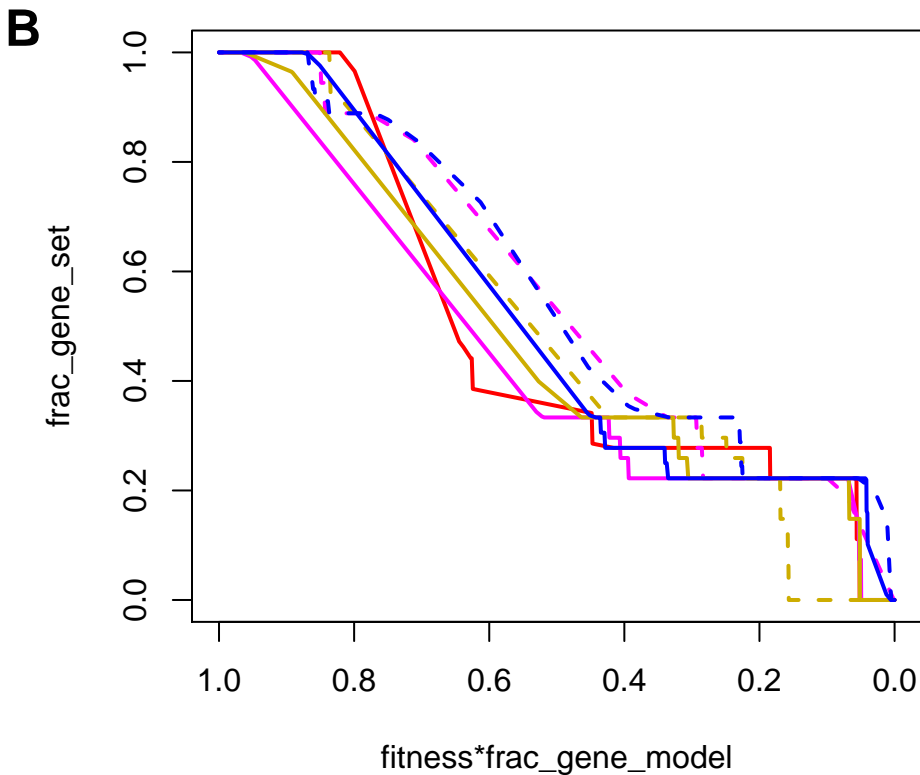
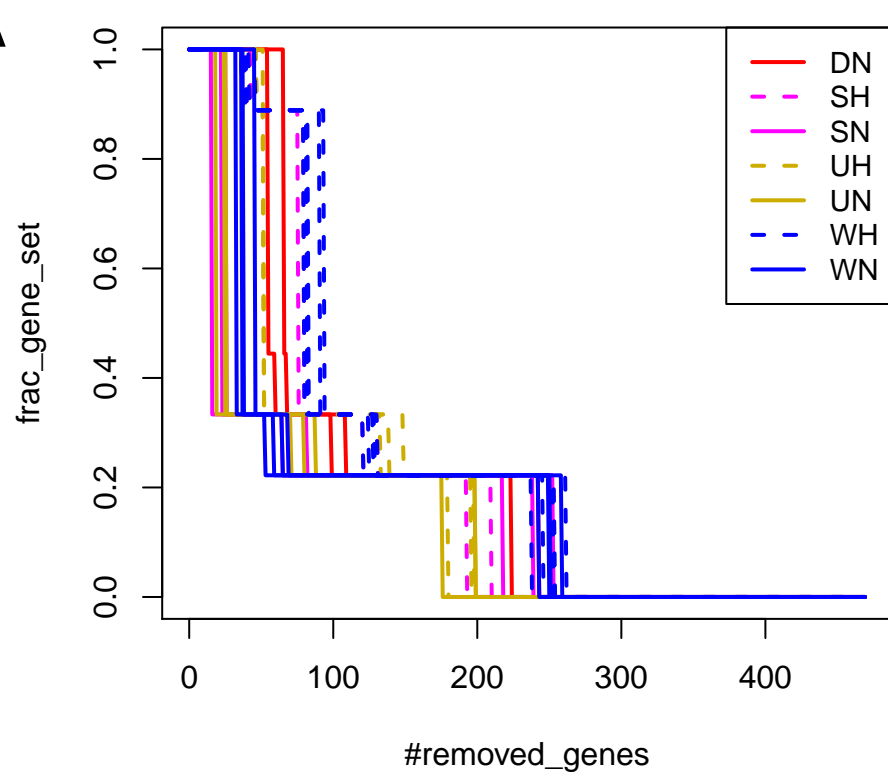
GO:0006637, acyl-CoA mp

$E = 0.12$, $p\text{-val} = 0.003$



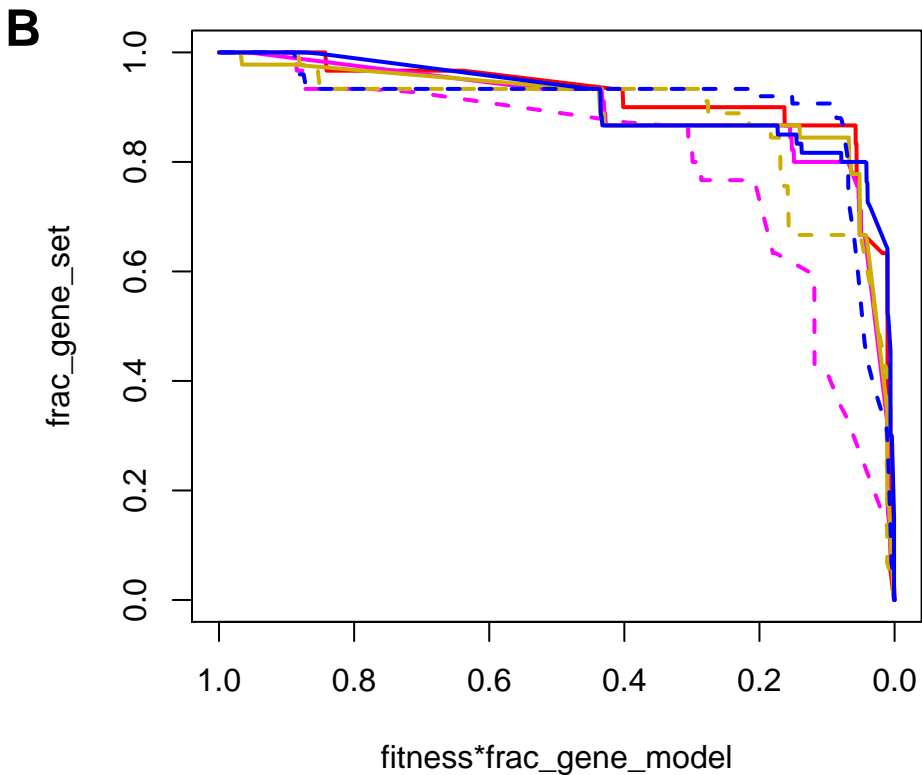
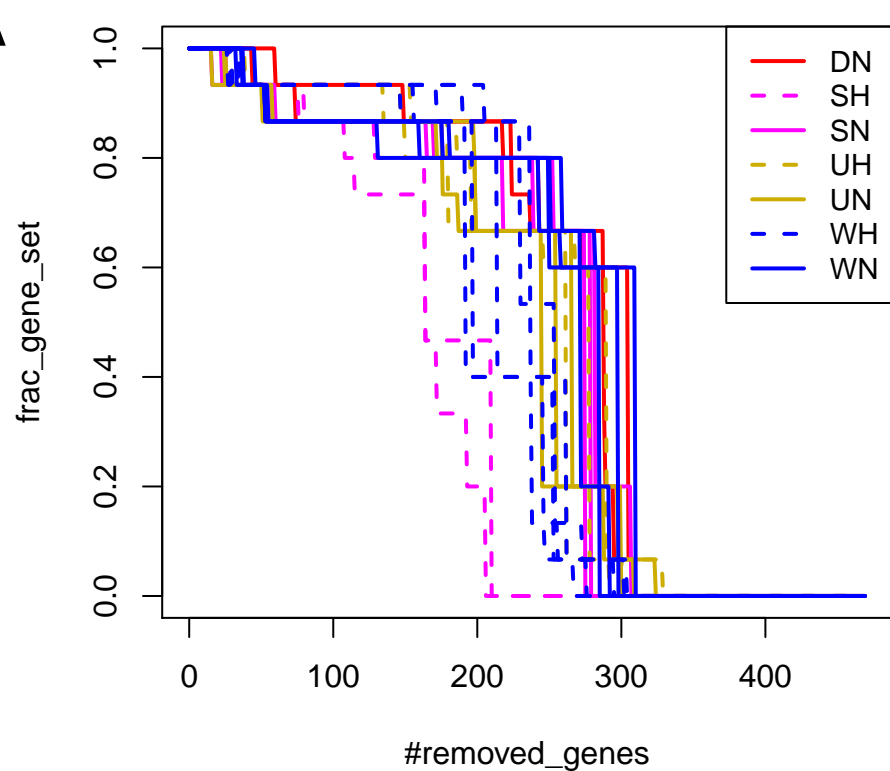
GO:0006084, acetyl-CoA mp

$E = 0.12$, $p\text{-val} = 0.007$



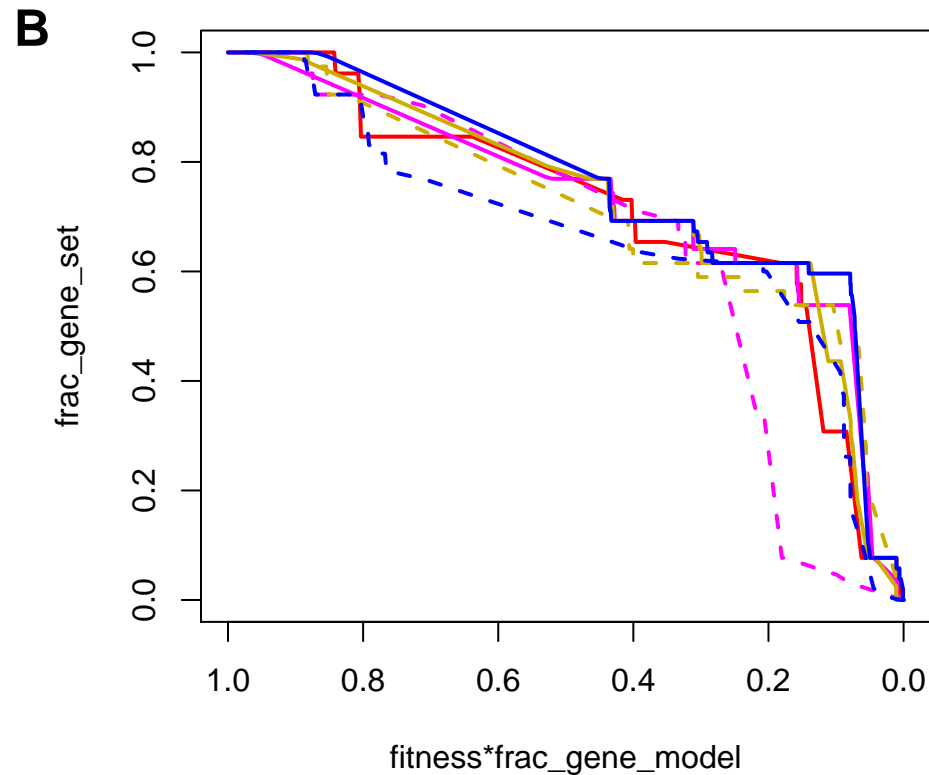
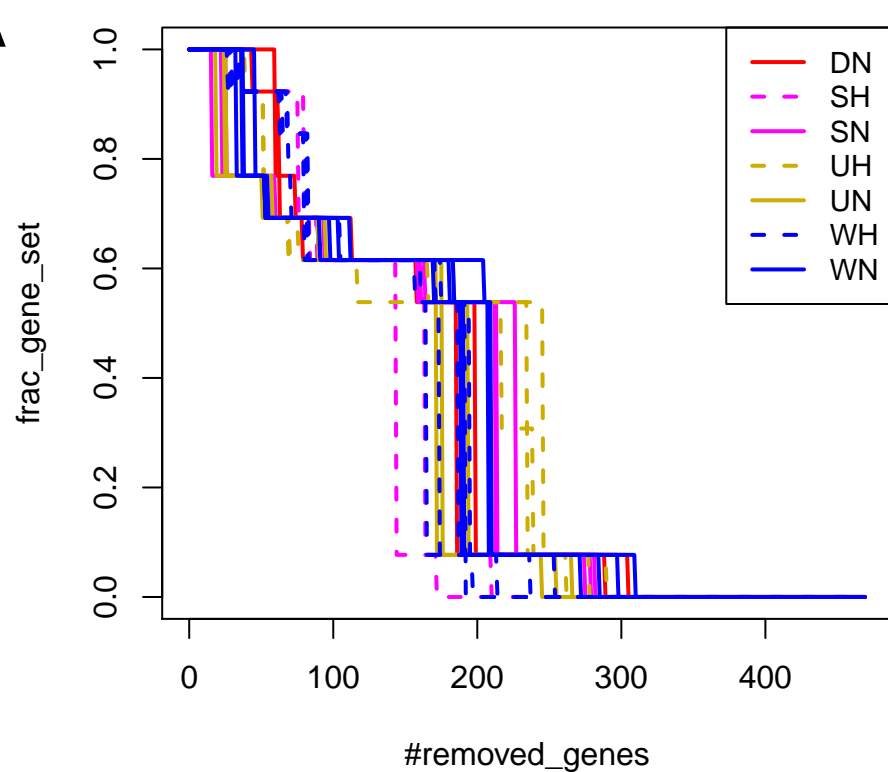
GO:0006090, pyruvate mp

$E = 0.11$, $p\text{-val} = 0.001$



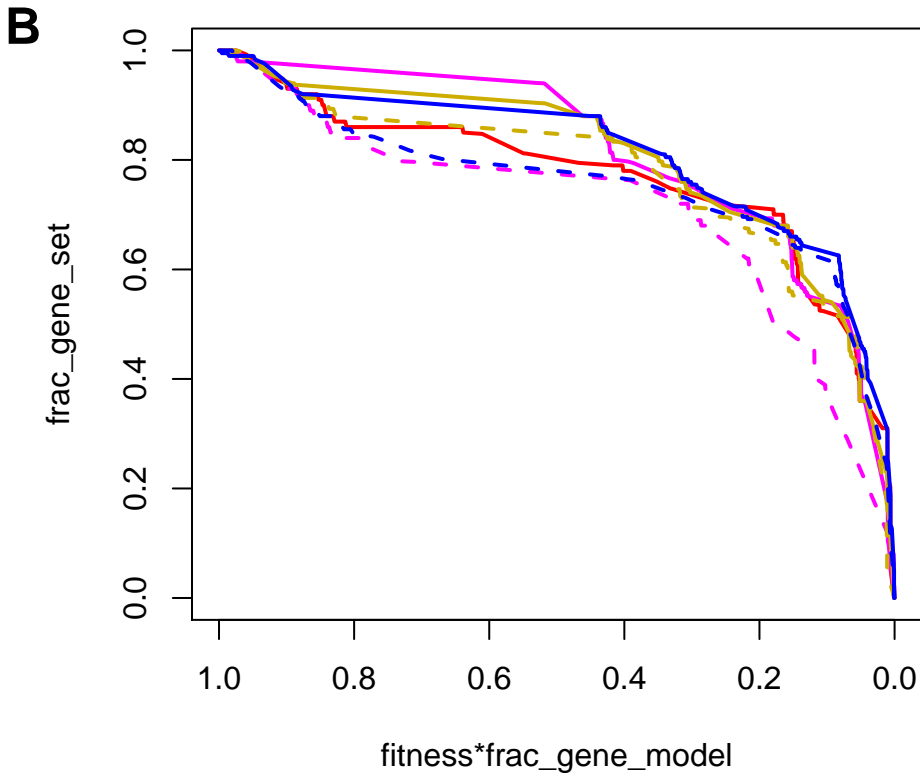
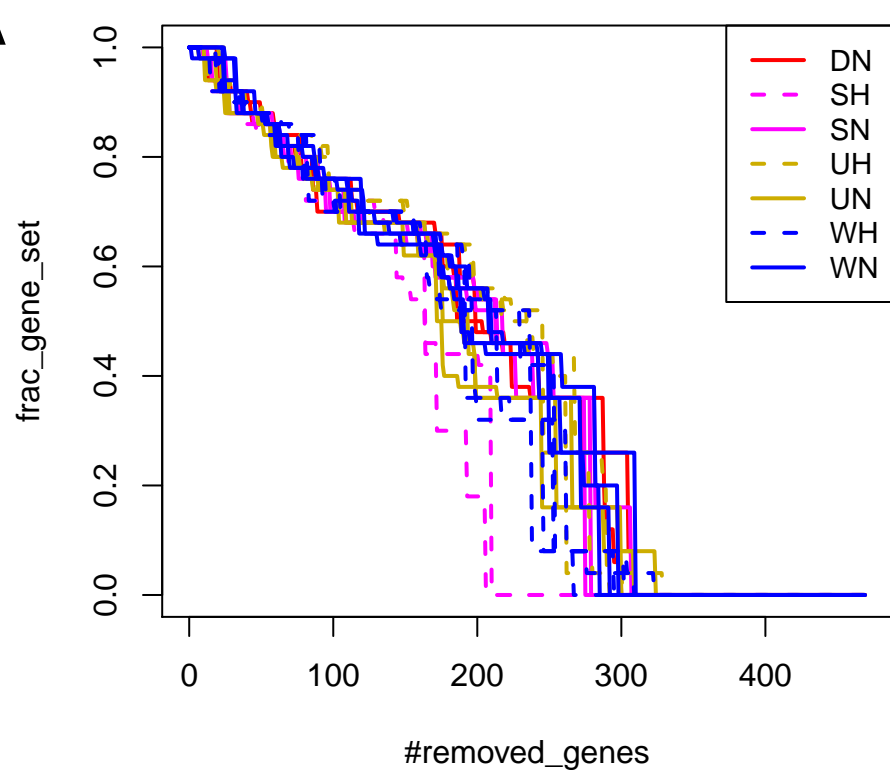
GO:0006081, cellular aldehyde mp

$E = 0.11$, $p\text{-val} = 0.017$



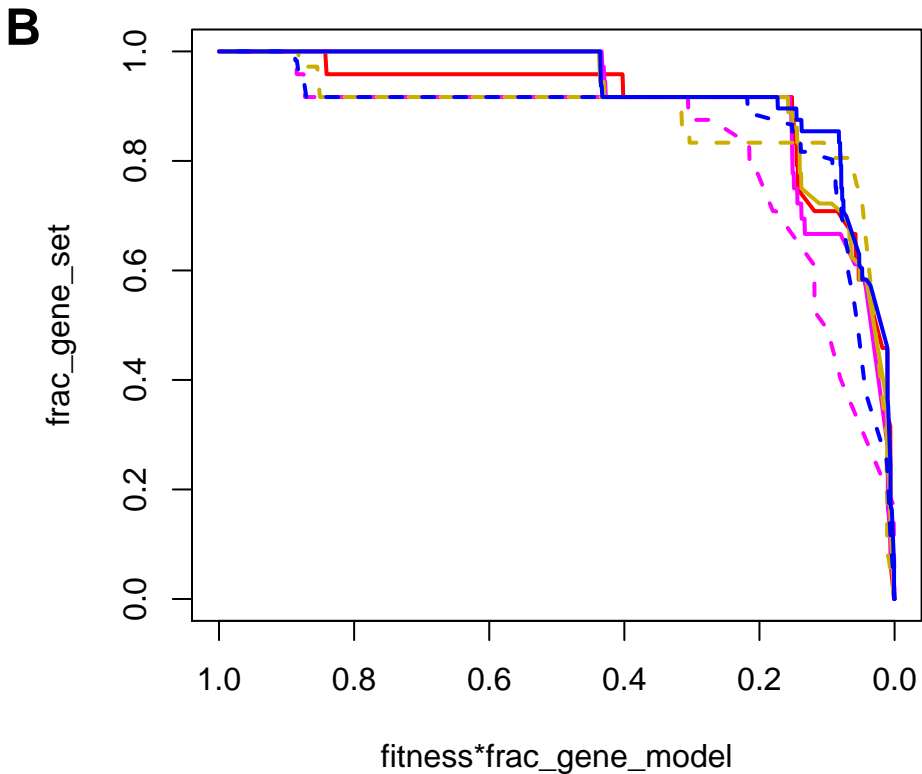
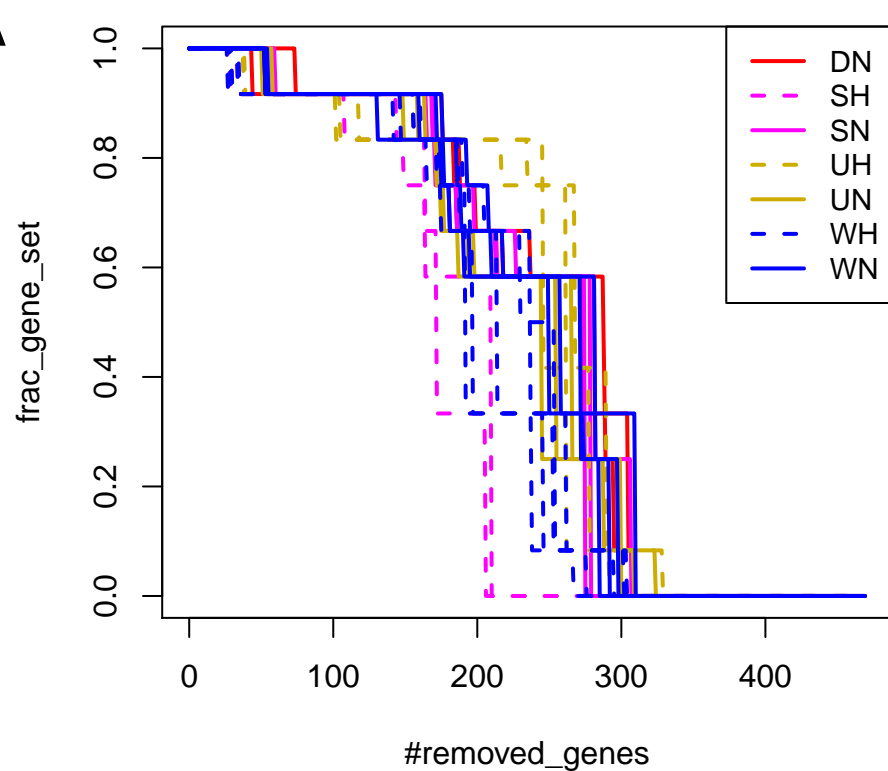
GO:0005975, carbohydrate mp

E = 0.11, p-val = 0.001



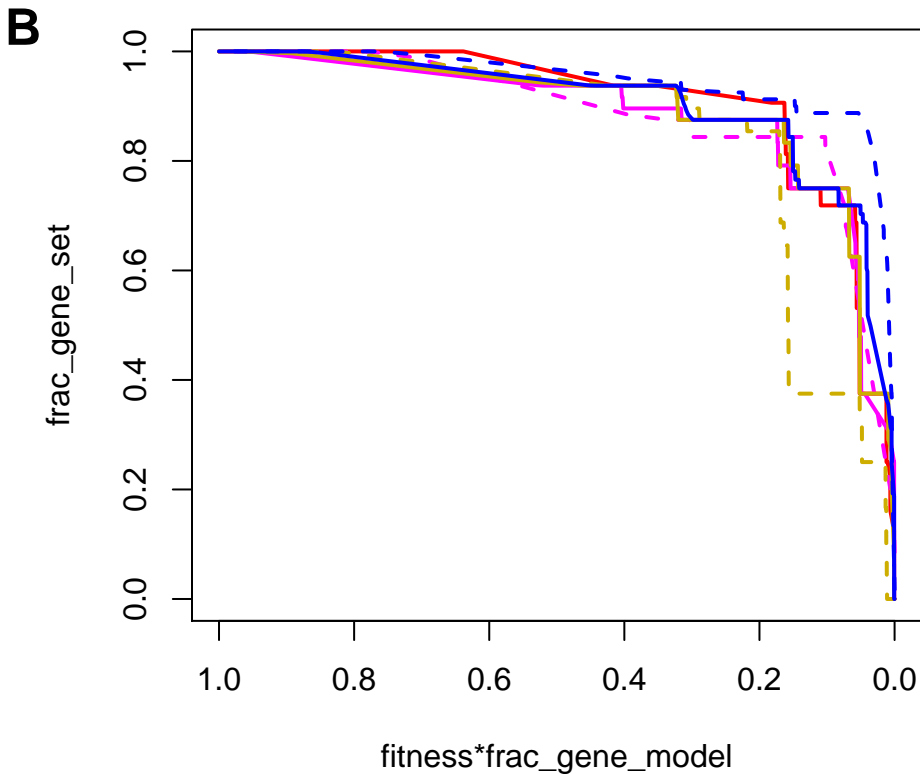
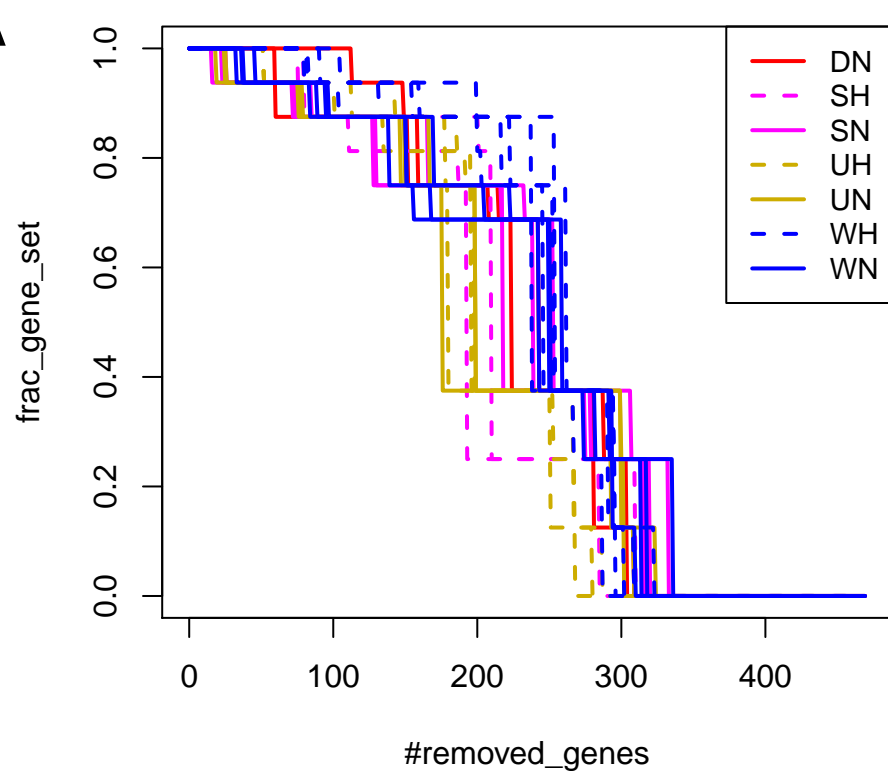
GO:0006006, glucose mp

E = 0.097, p-val = 0.001



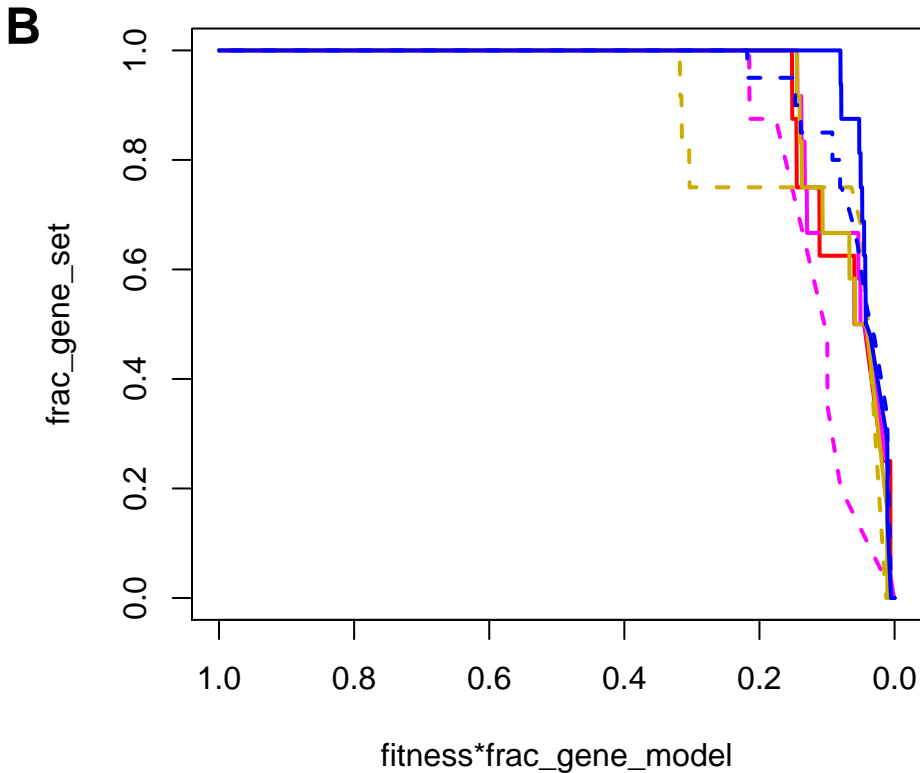
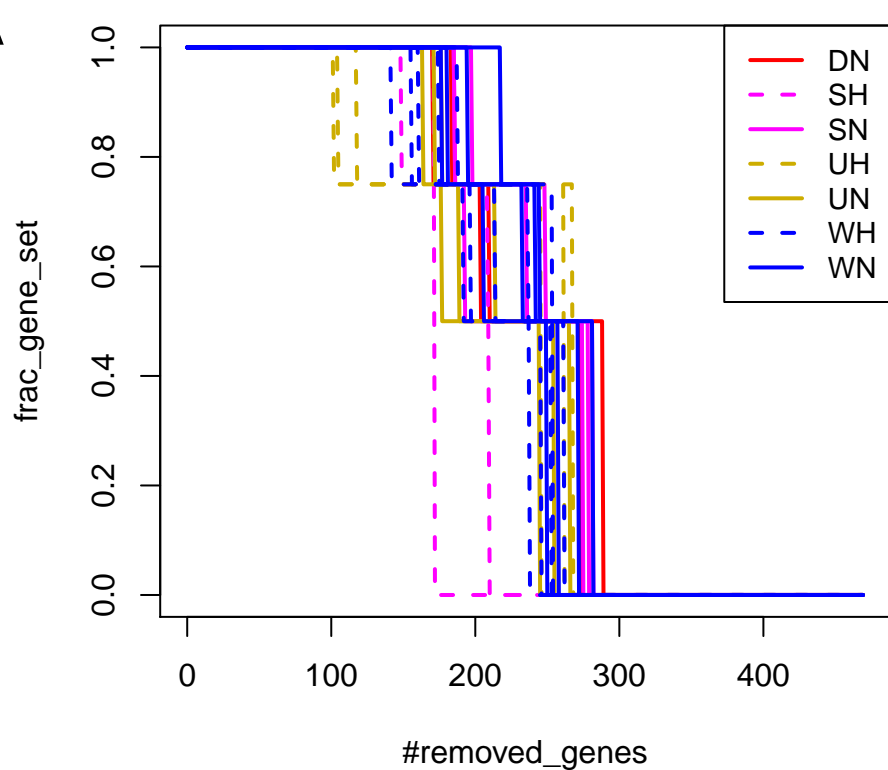
GO:0006099, tricarboxylic acid cycle

$E = 0.097$, $p\text{-val} = 0.003$



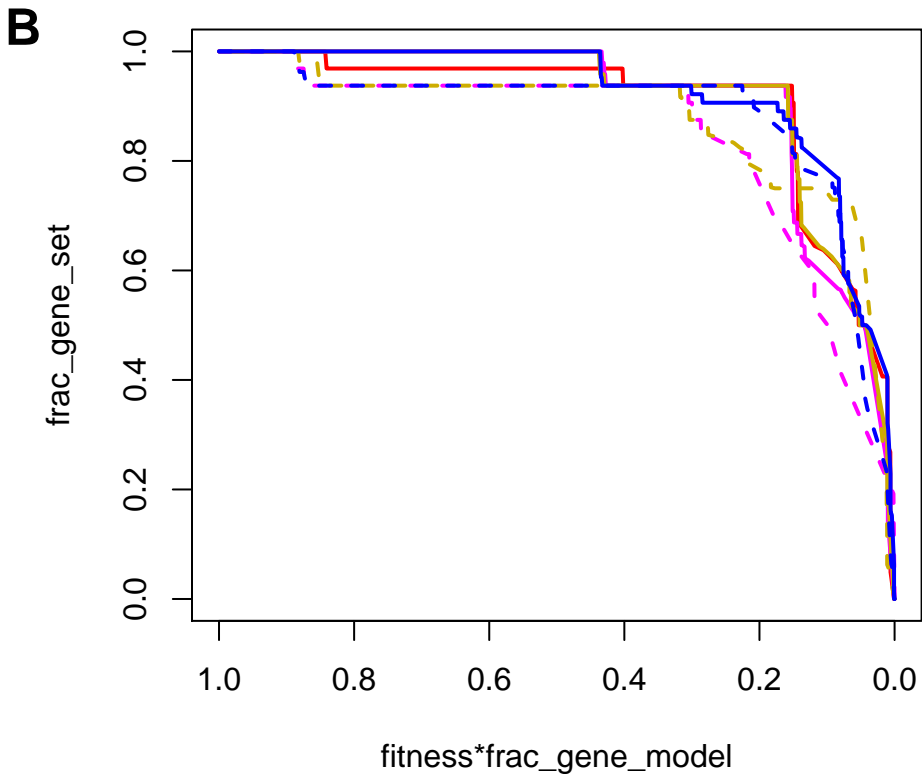
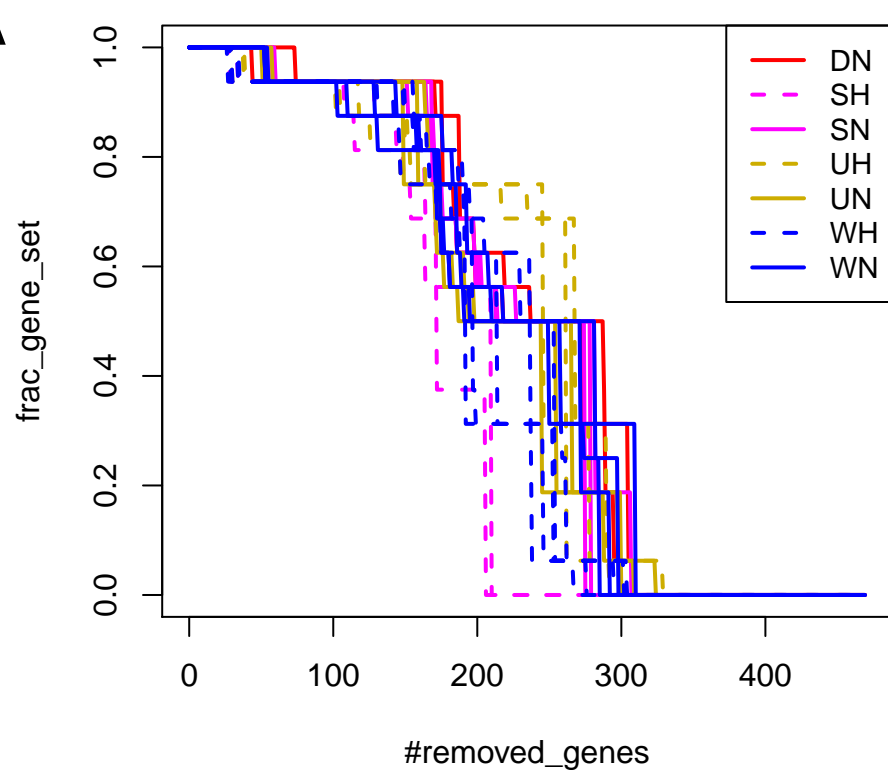
GO:0005978, glycogen bp

E = 0.08, p-val = 0.006



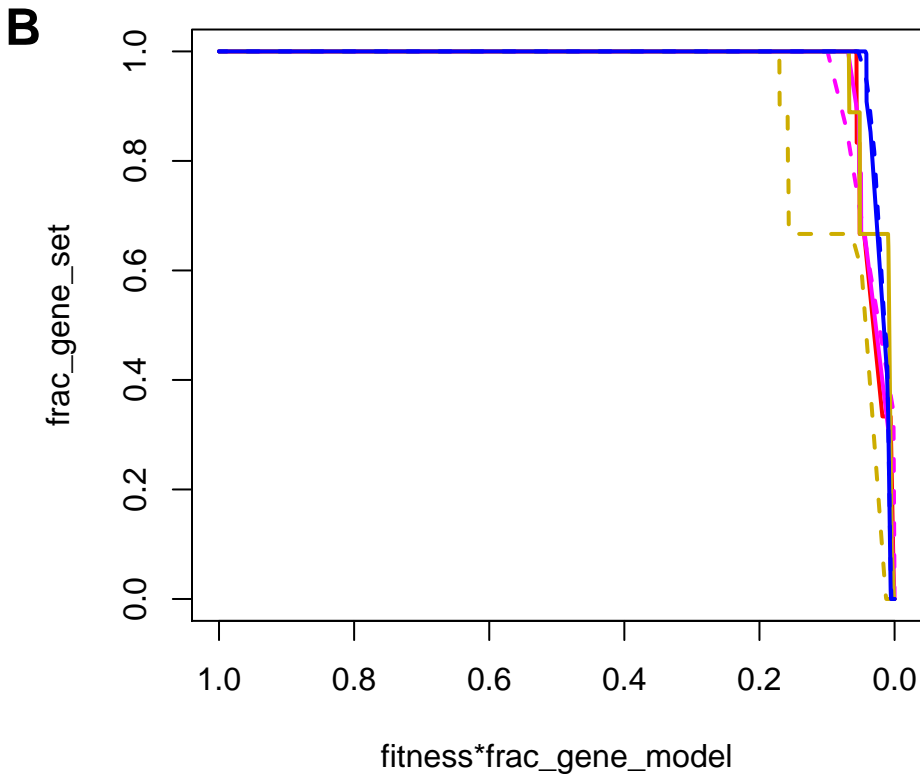
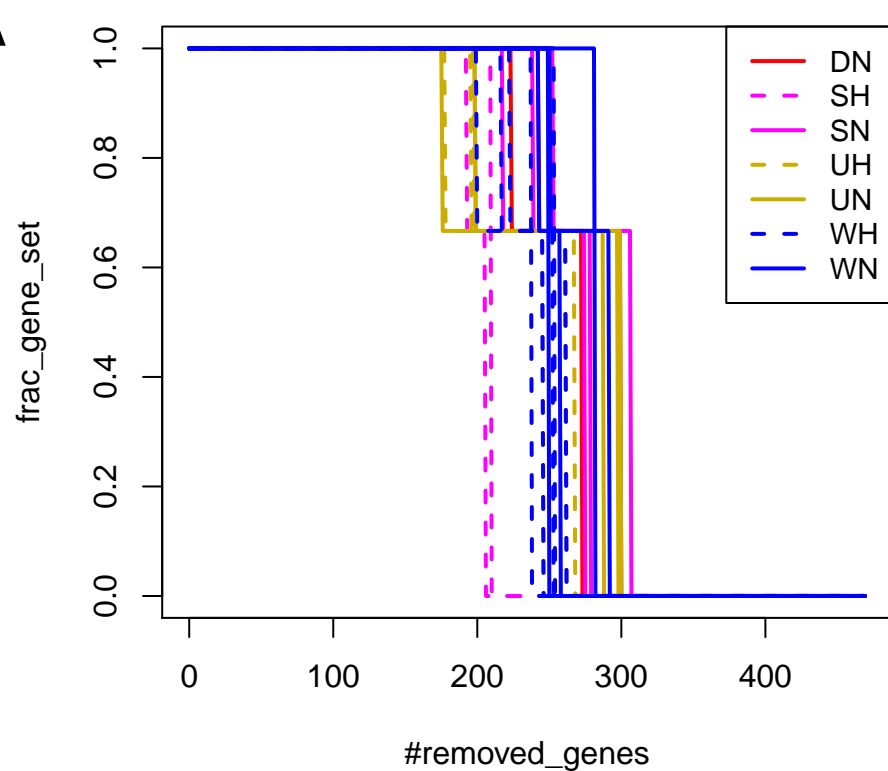
GO:0019318, hexose mp

E = 0.078, p-val = 0.001



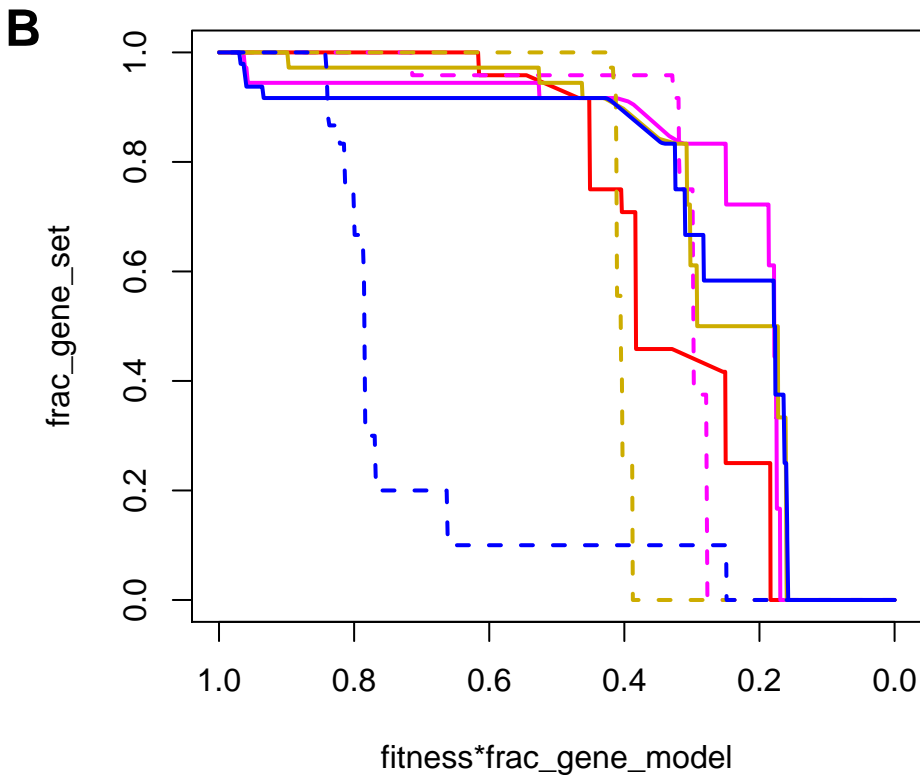
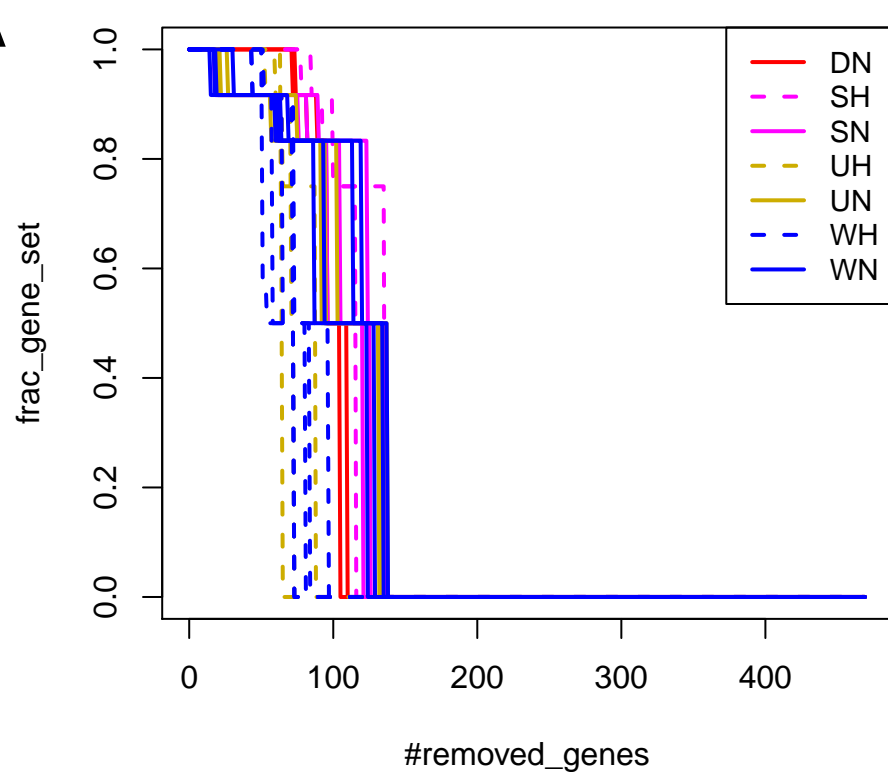
GO:0006071, glycerol mp

E = 0.058, p-val = 0.008



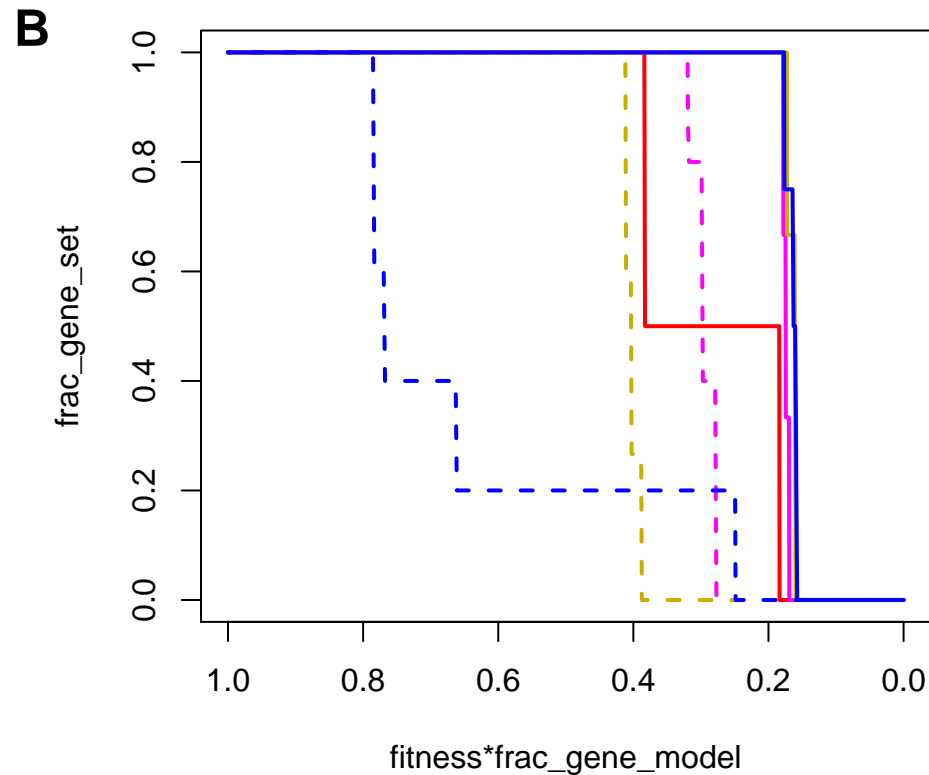
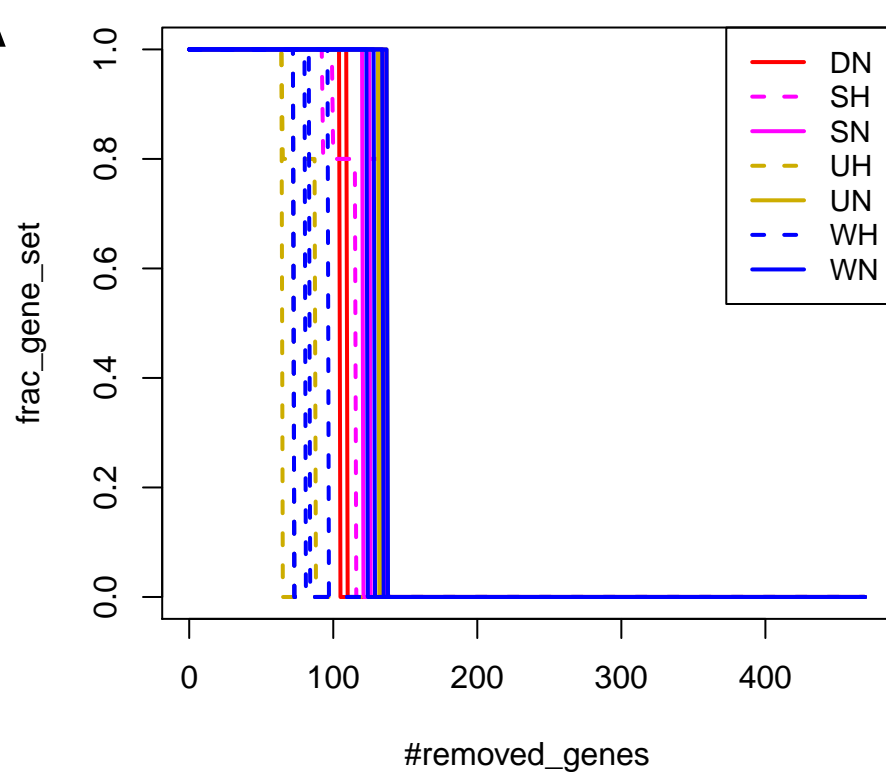
GO:0009073, aromatic aa family bp

$E = 0.49$, $p\text{-val} = 0.033$



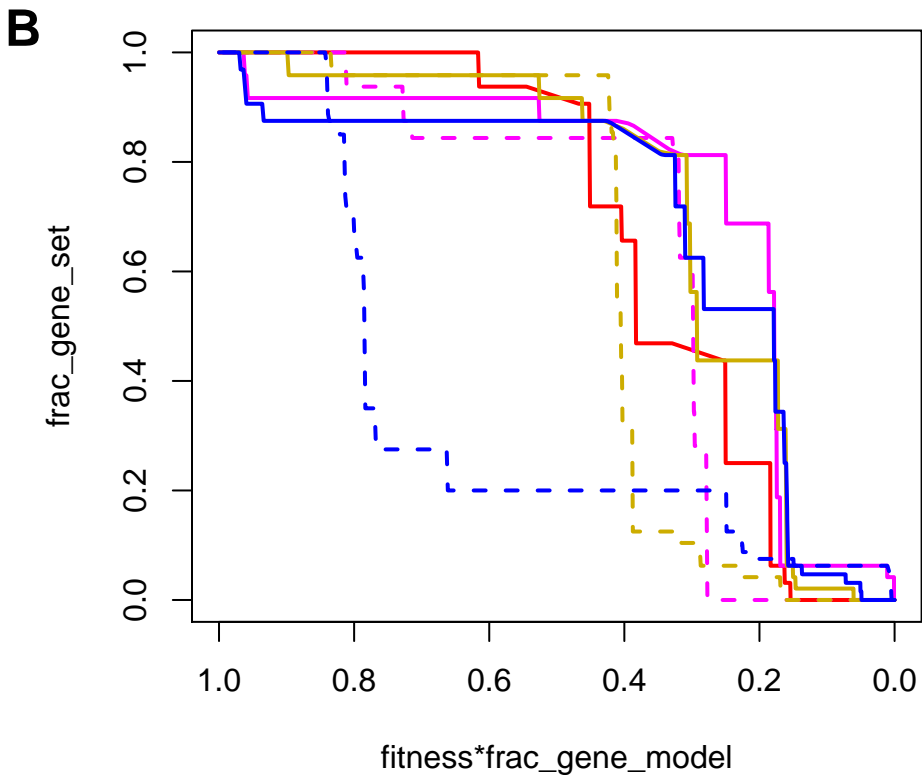
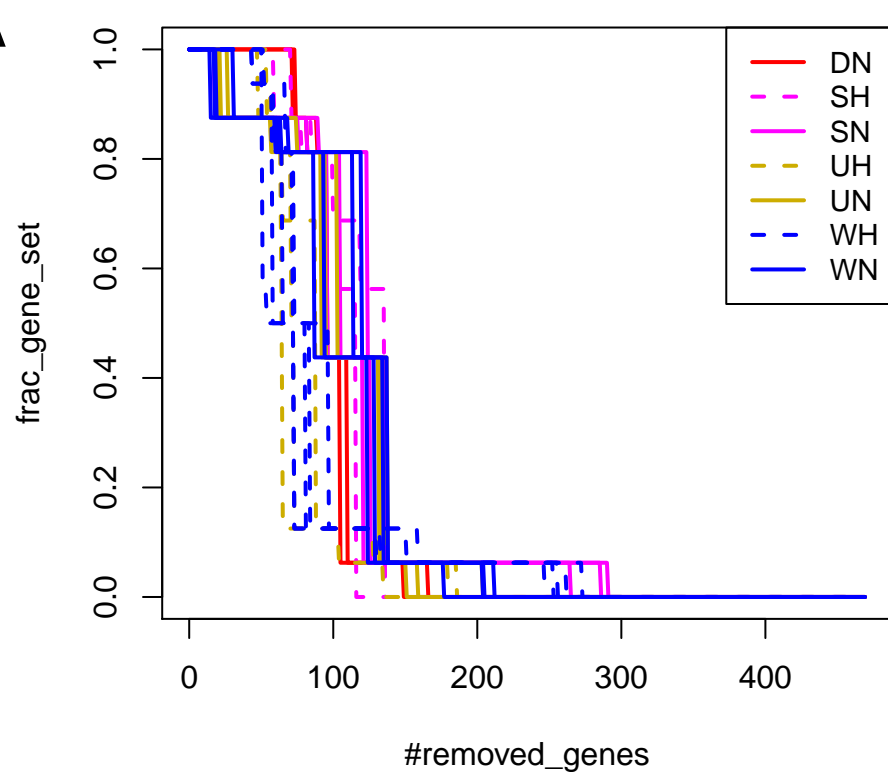
GO:0046417, chorismate mp

$E = 0.49$, $p\text{-val} = 0.061$



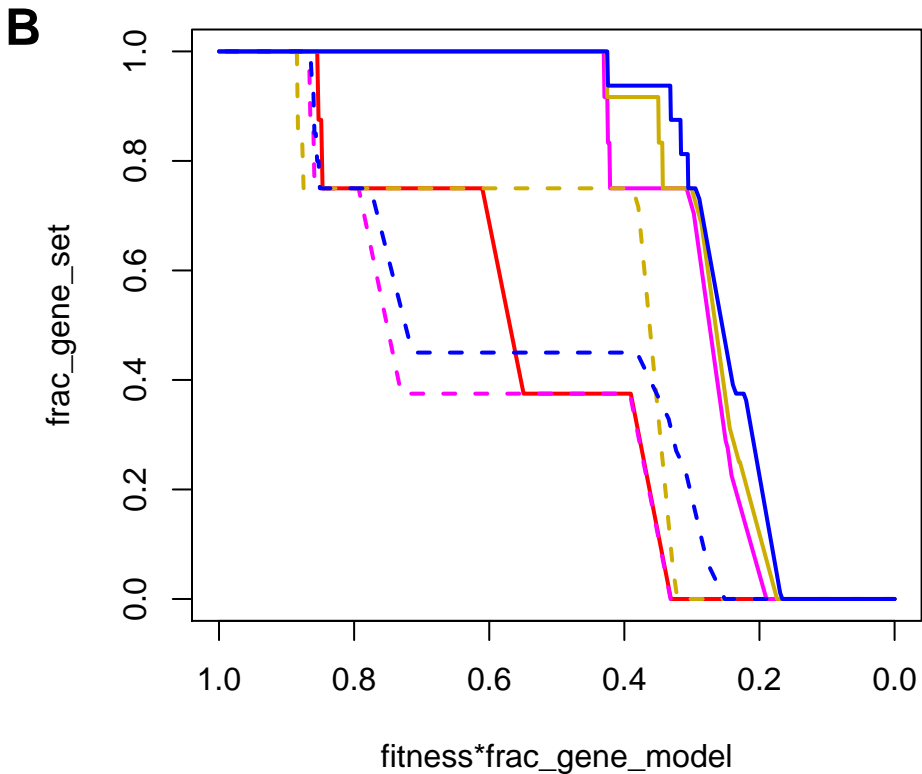
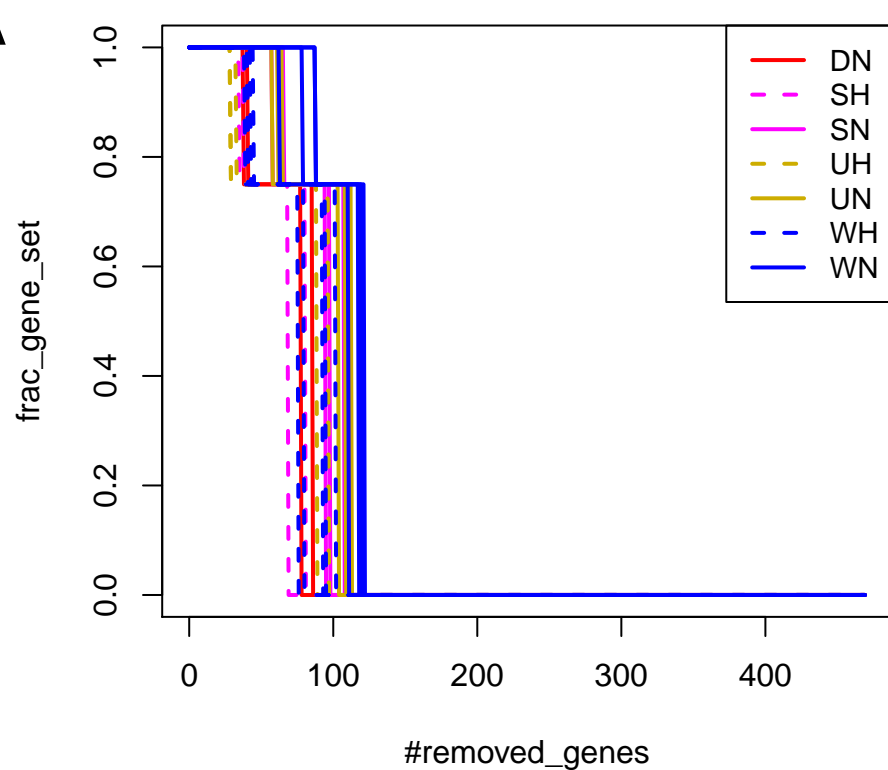
GO:0009072, aromatic aa family mp

$E = 0.42$, $p\text{-val} = 0.034$



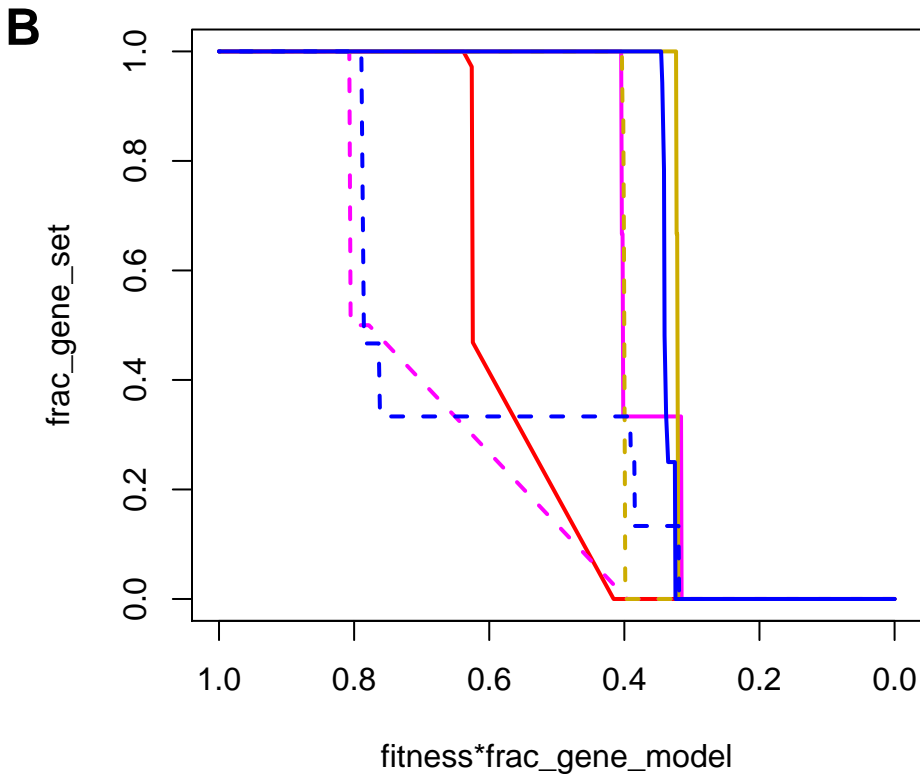
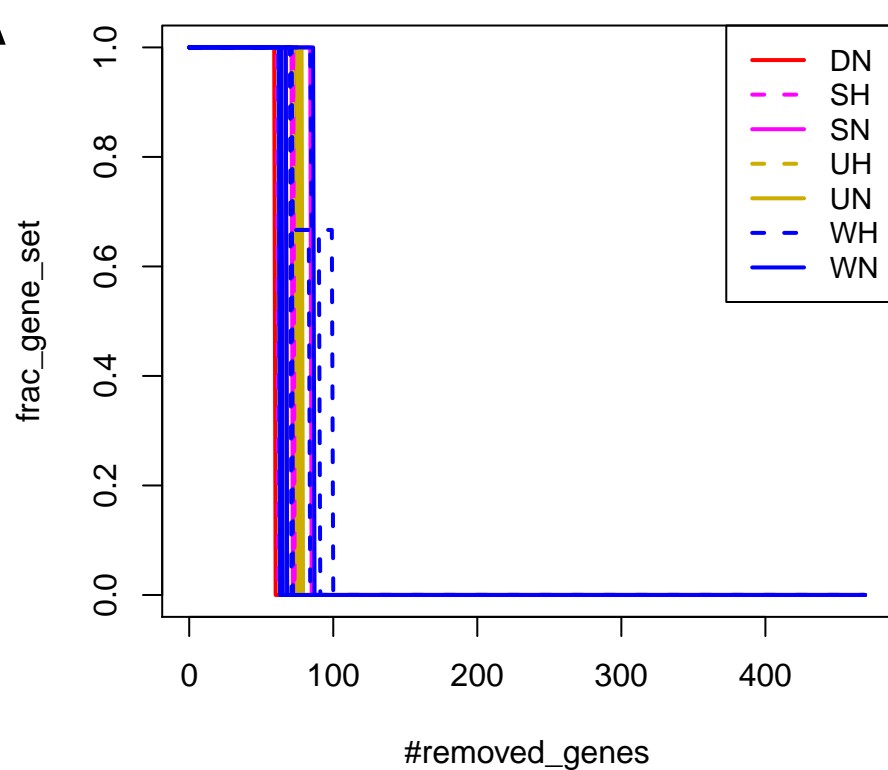
GO:0005991, trehalose mp

E = 0.38, p-val = 0.078



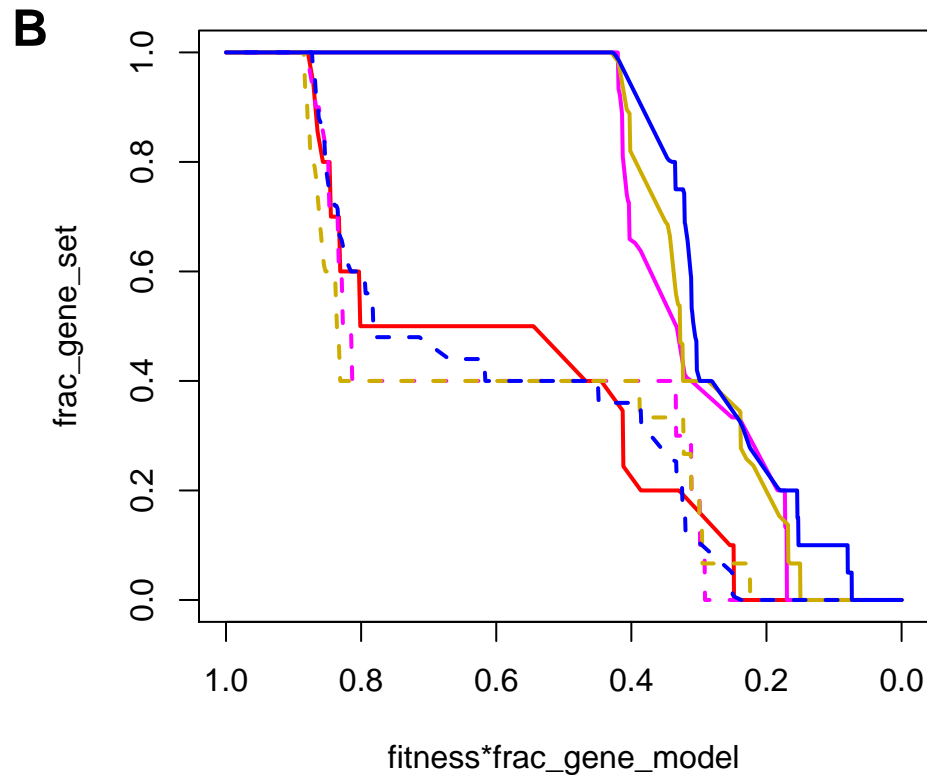
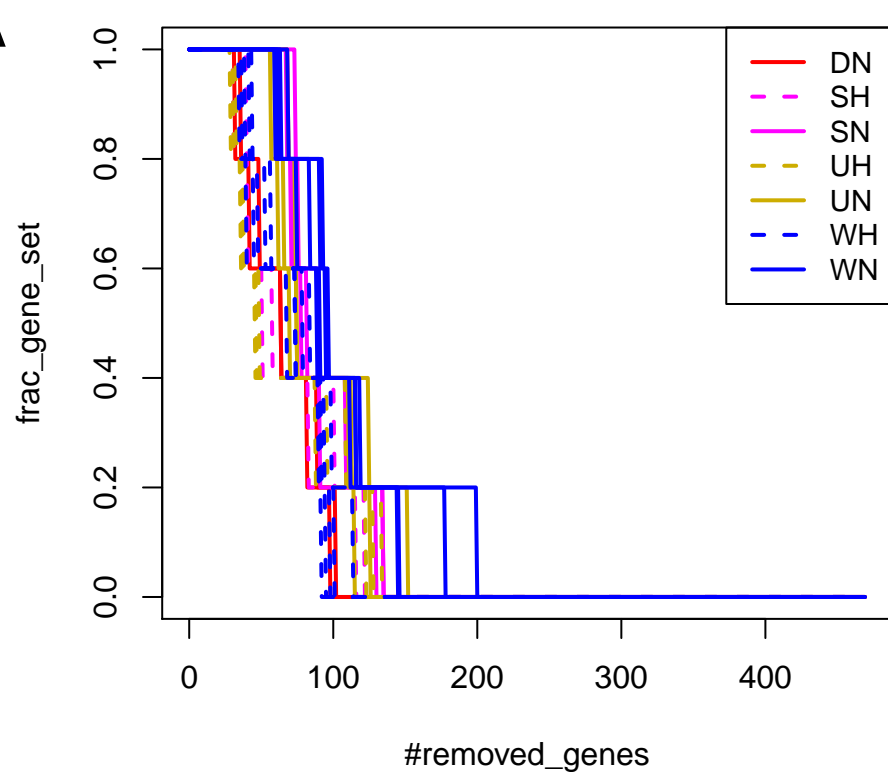
GO:0015940, pantothenate bp

$E = 0.37$, $p\text{-val} = 0.087$



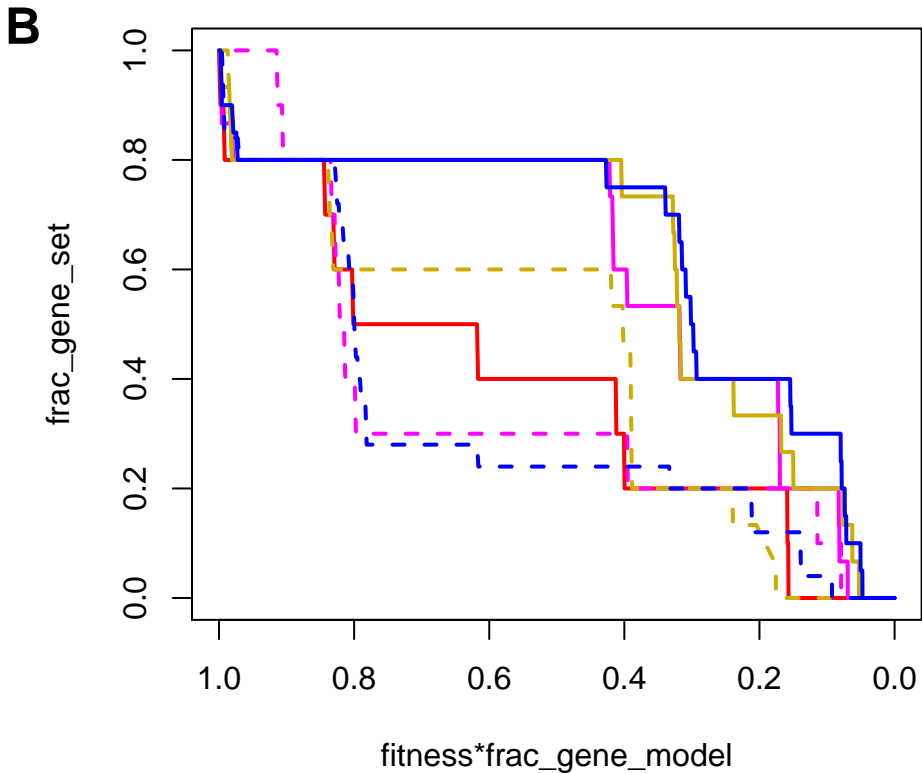
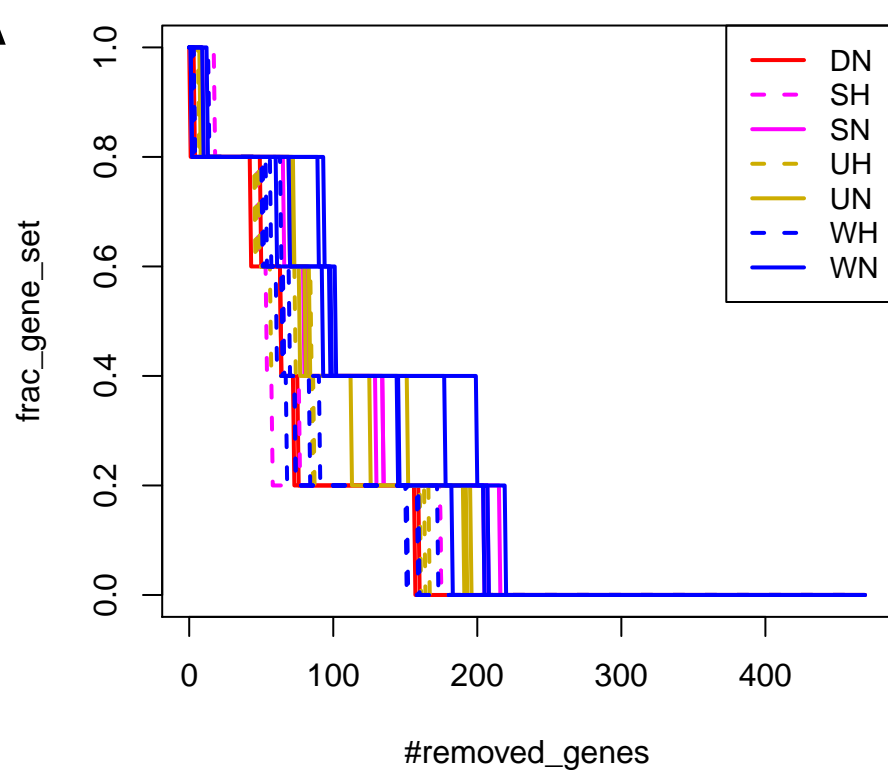
GO:0009130, pyrimidine nucleoside monophosphate bp

$E = 0.37$, $p\text{-val} = 0.037$



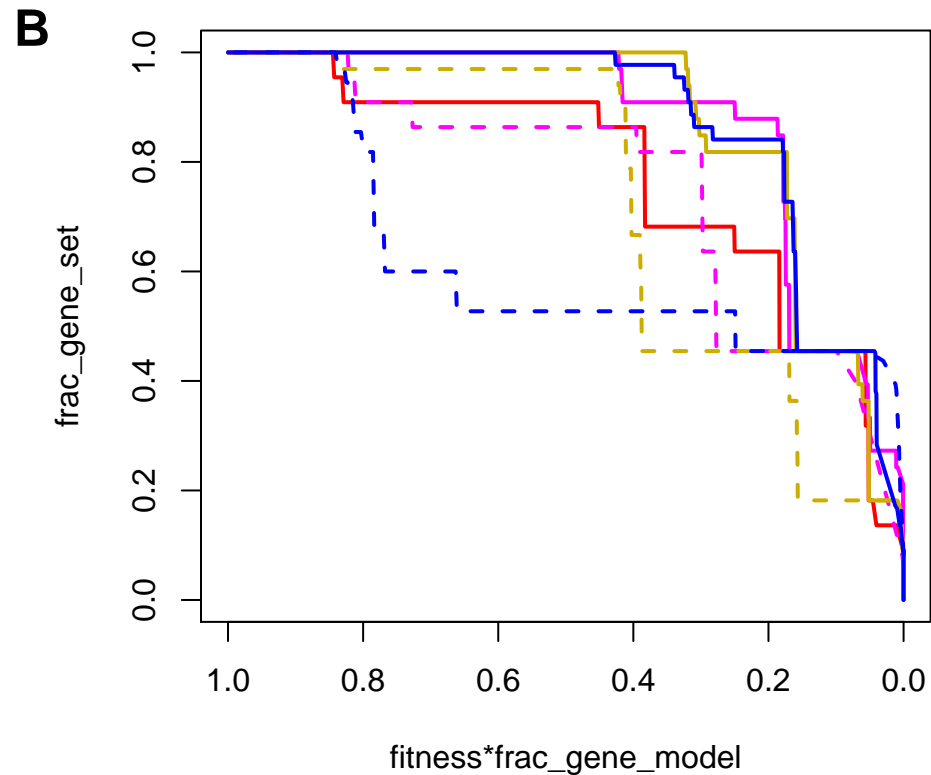
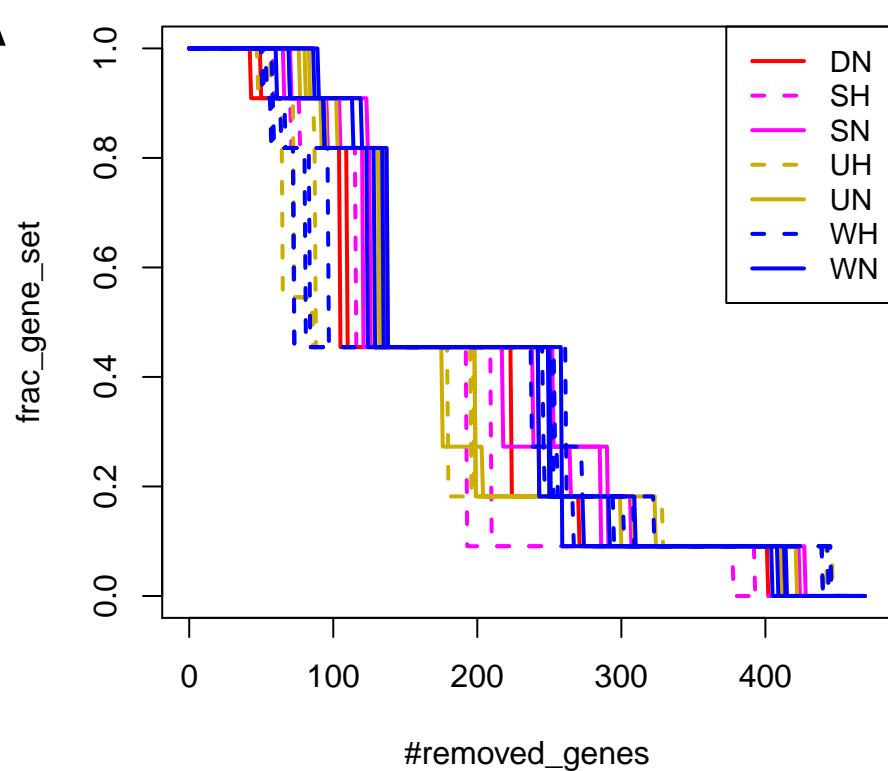
GO:0072529, pyrimidine-containing compound cp

E = 0.32, p-val = 0.031



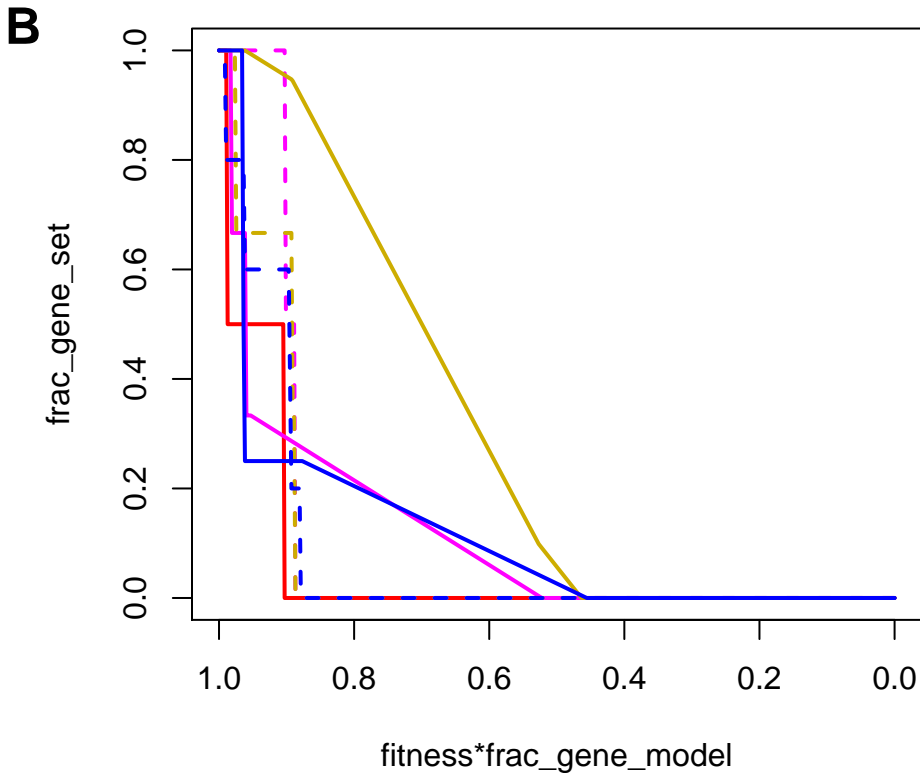
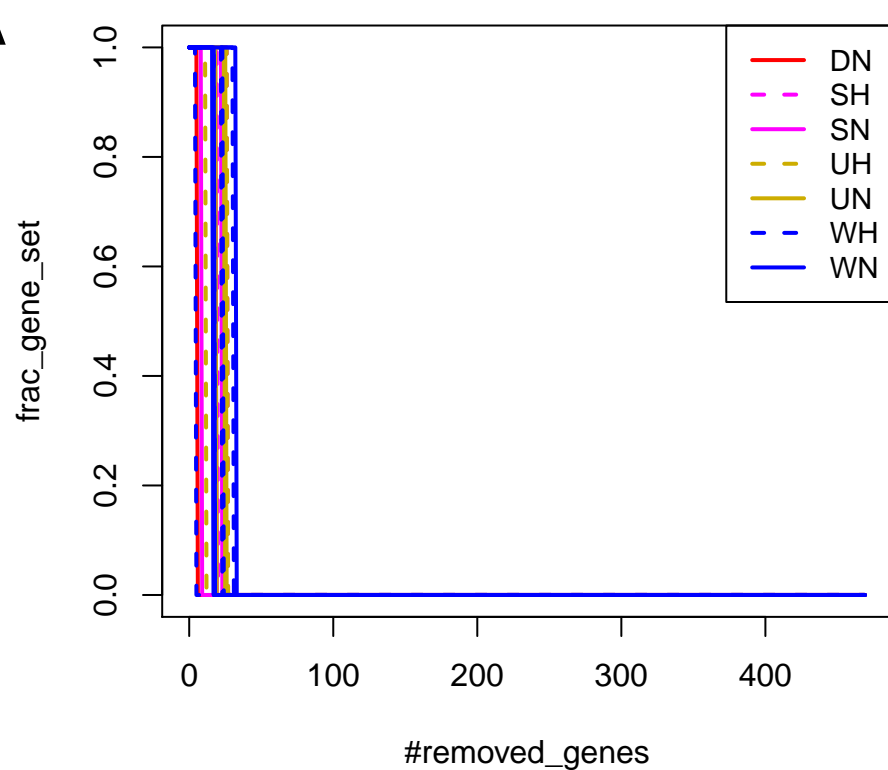
GO:0043650, dicarboxylic acid bp

$E = 0.28$, $p\text{-val} = 0.047$



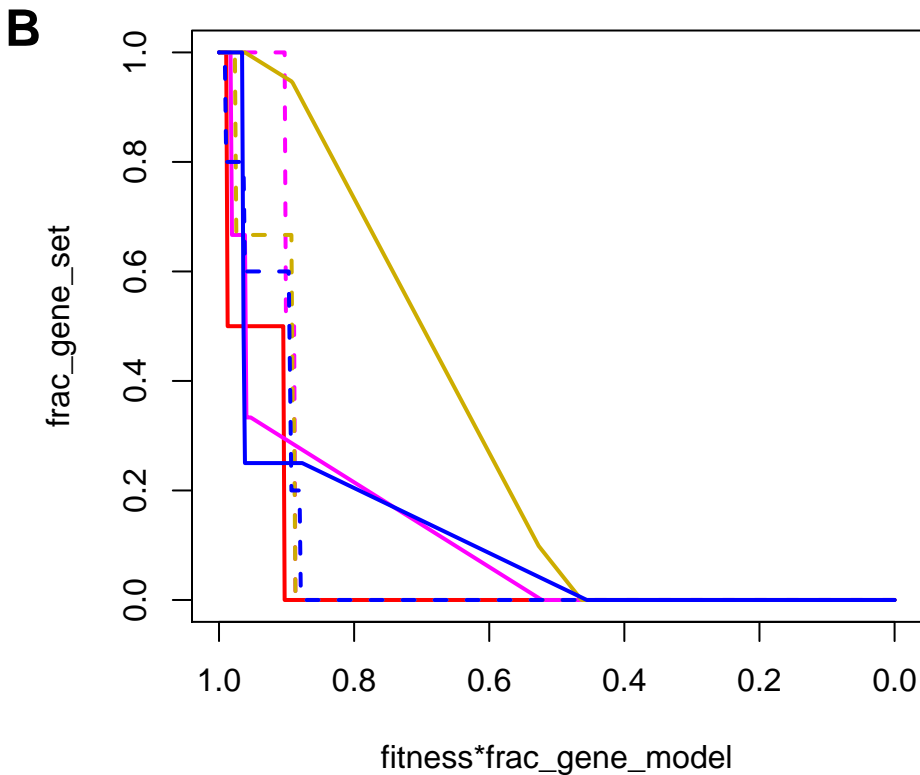
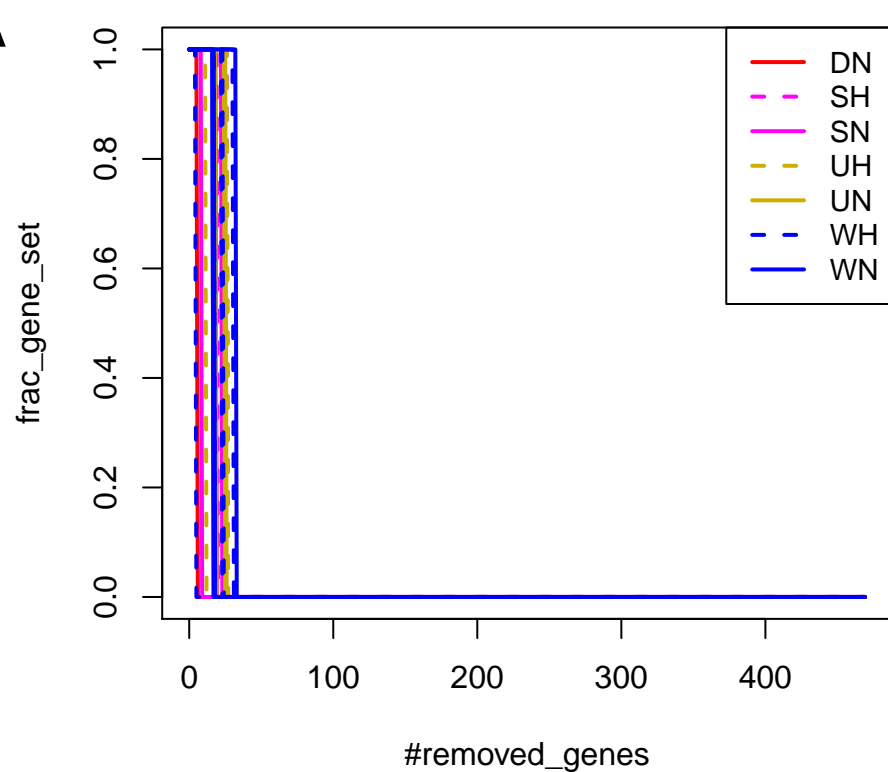
GO:0007035, vacuolar acidification

$E = 0.25$, $p\text{-val} = 0.062$



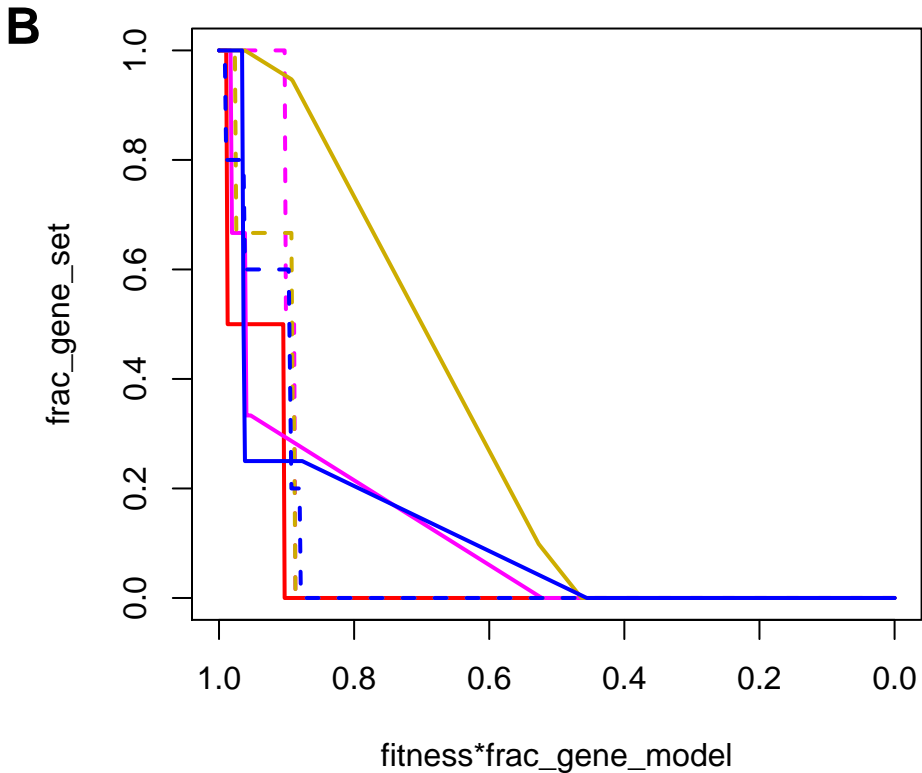
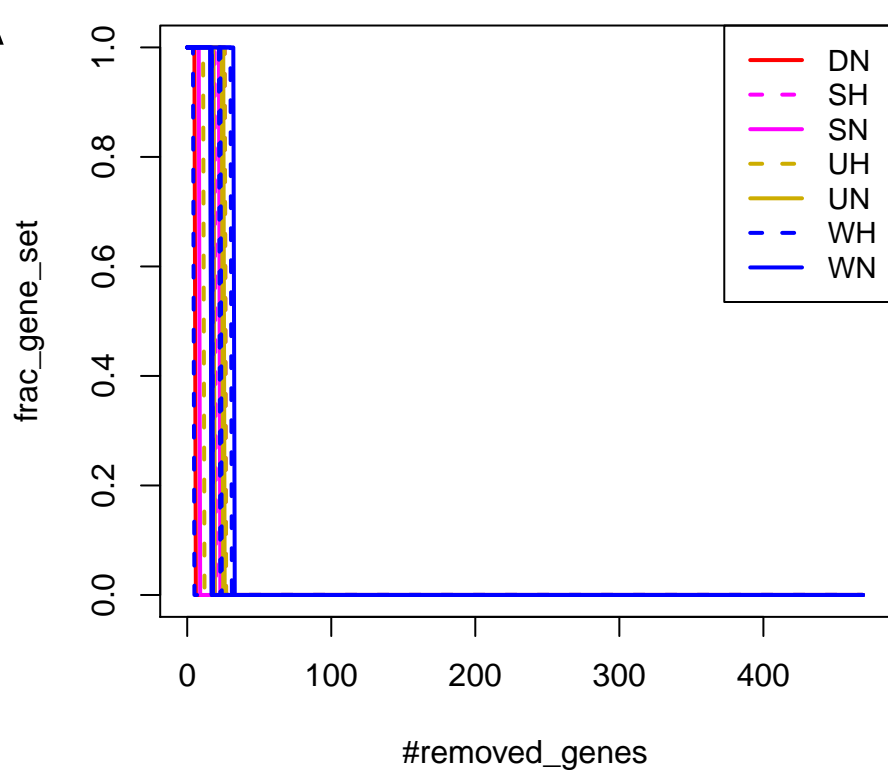
GO:0015986, ATP synthesis coupled proton transport

$E = 0.25$, $p\text{-val} = 0.062$



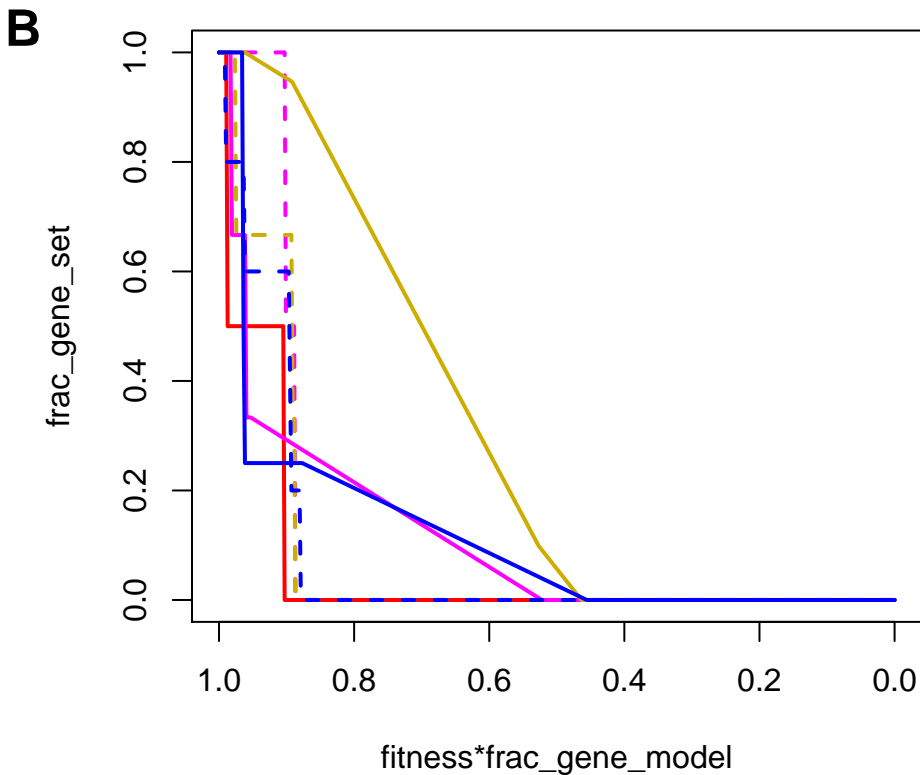
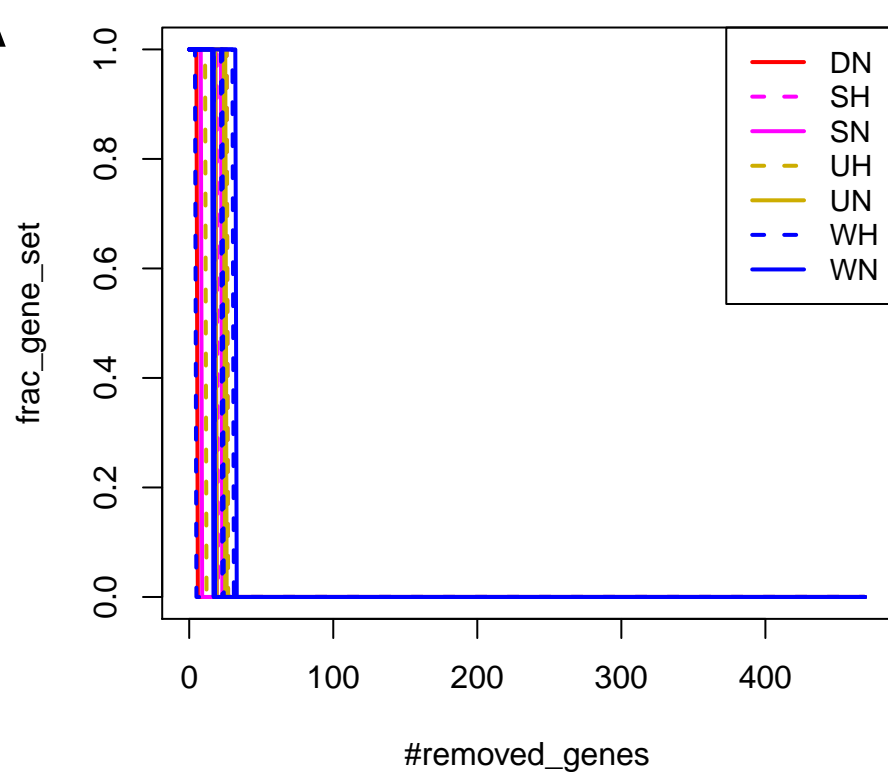
GO:0015991, ATP hydrolysis coupled proton transport

$E = 0.25$, $p\text{-val} = 0.064$



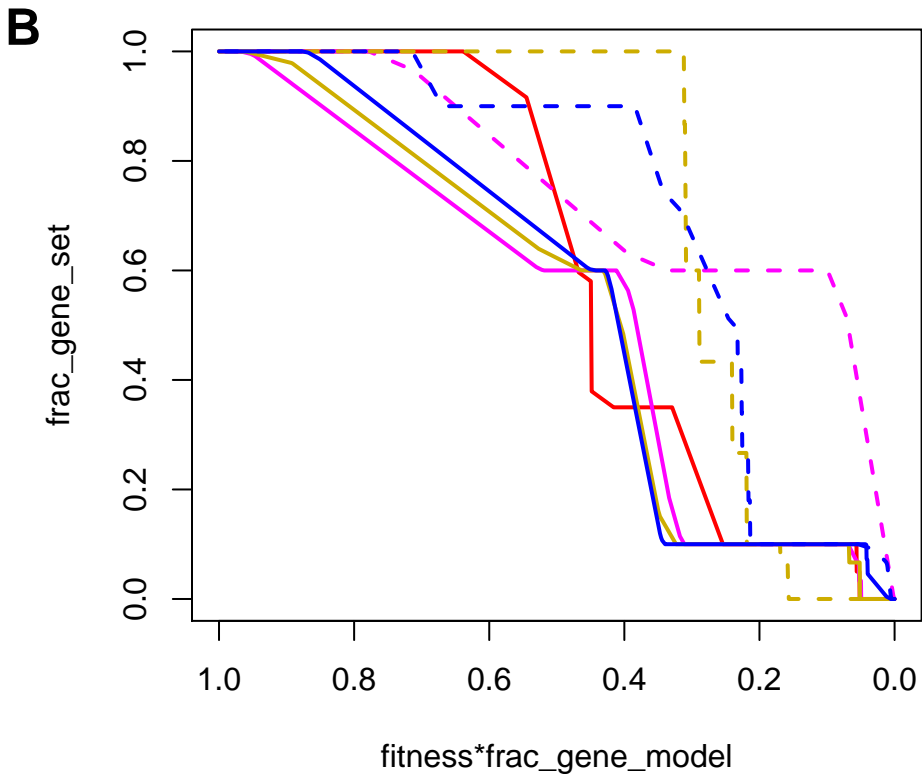
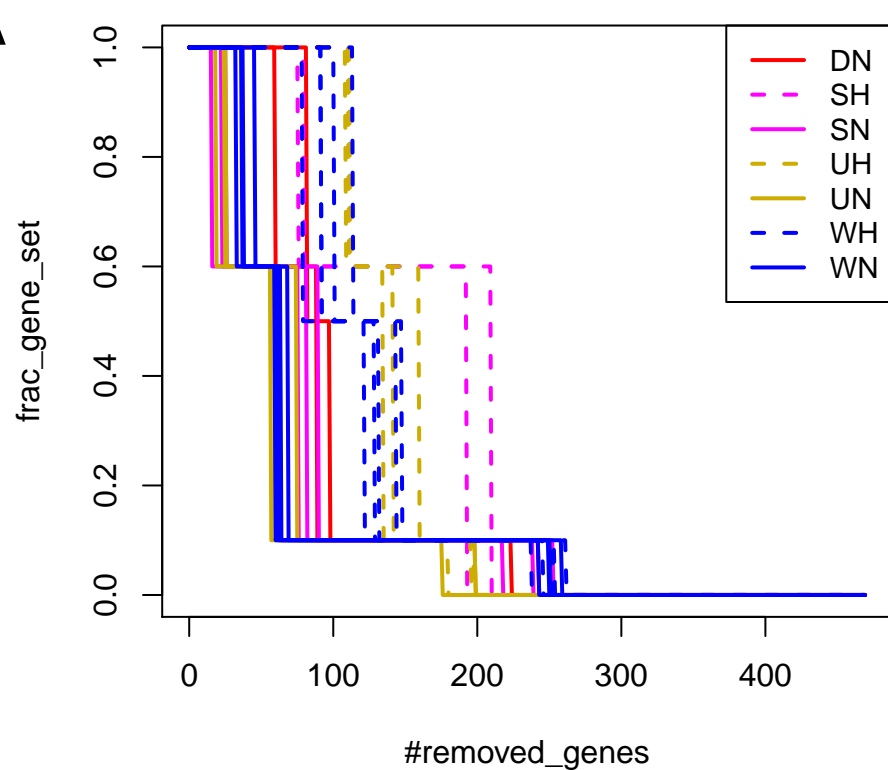
GO:0033615, mitochondrial proton-transporting ATP synthase complex assembly

$E = 0.25$, $p\text{-val} = 0.063$



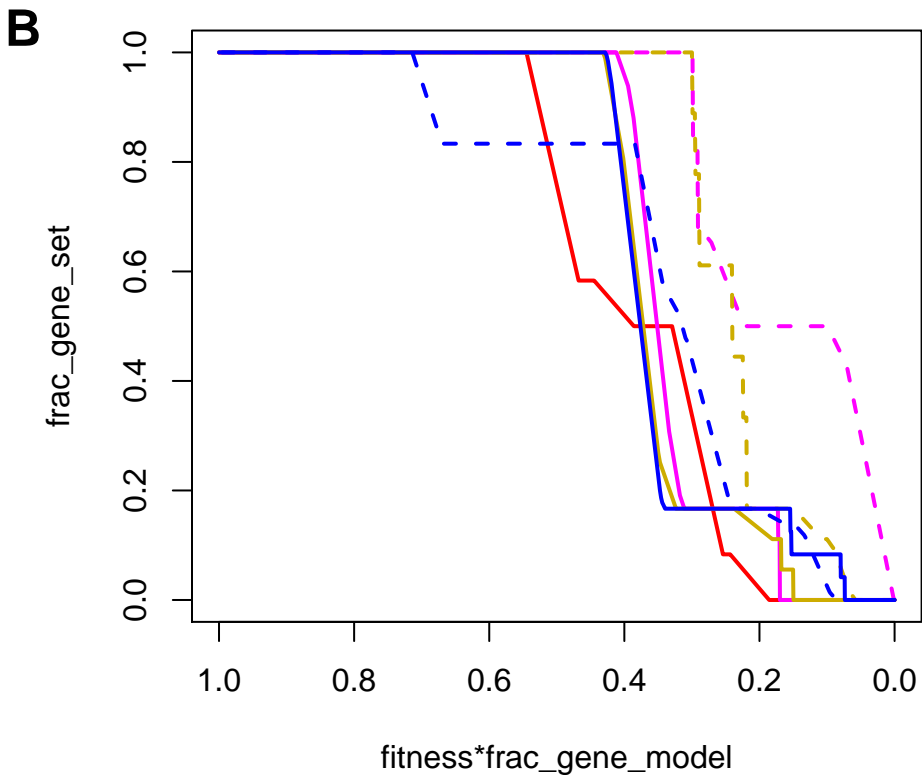
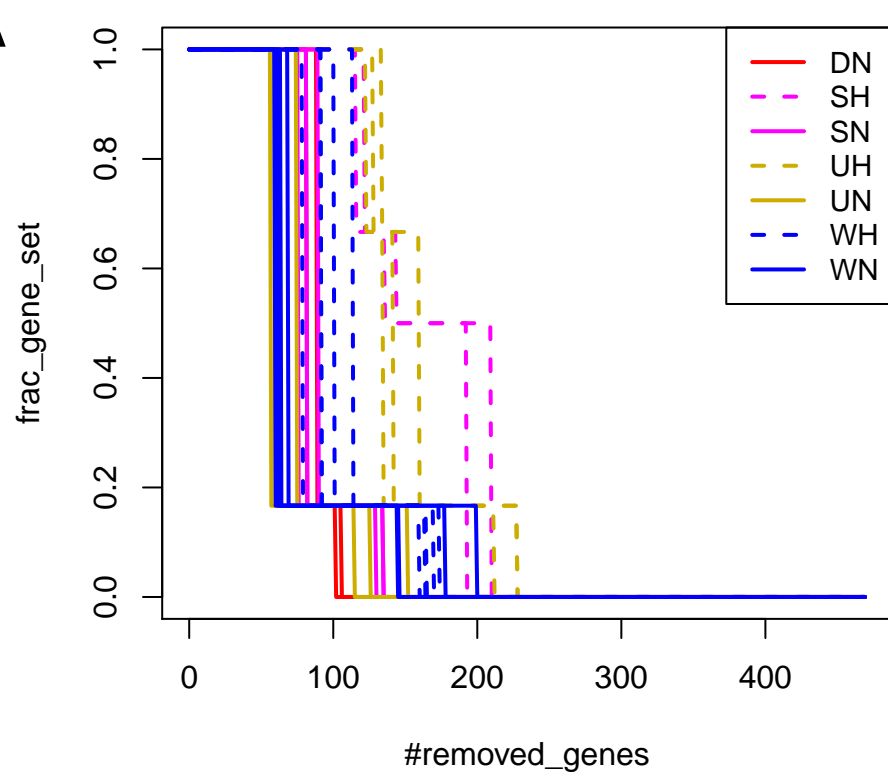
GO:0006526, arginine bp

$E = 0.24$, $p\text{-val} = 0.055$



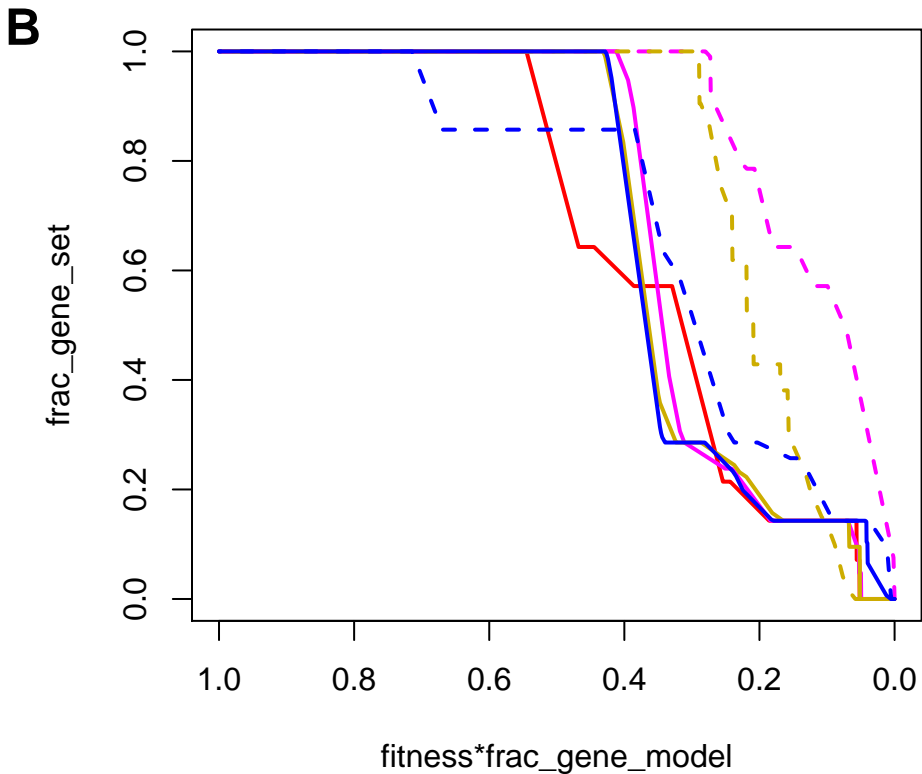
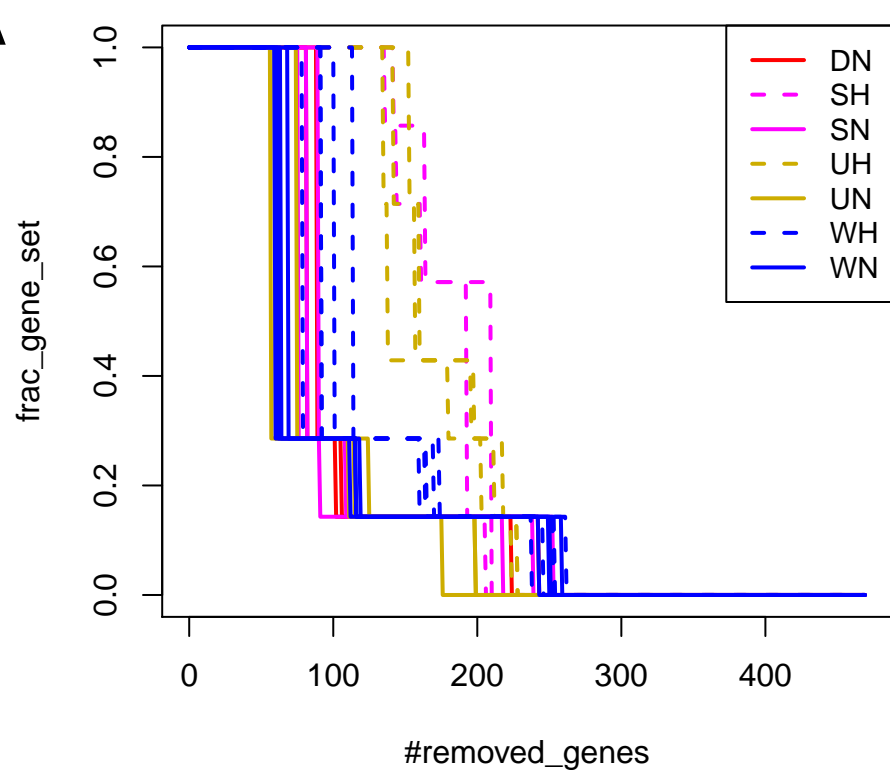
GO:0006207, 'de novo' pyrimidine nucleobase bp

E = 0.22, p-val = 0.06



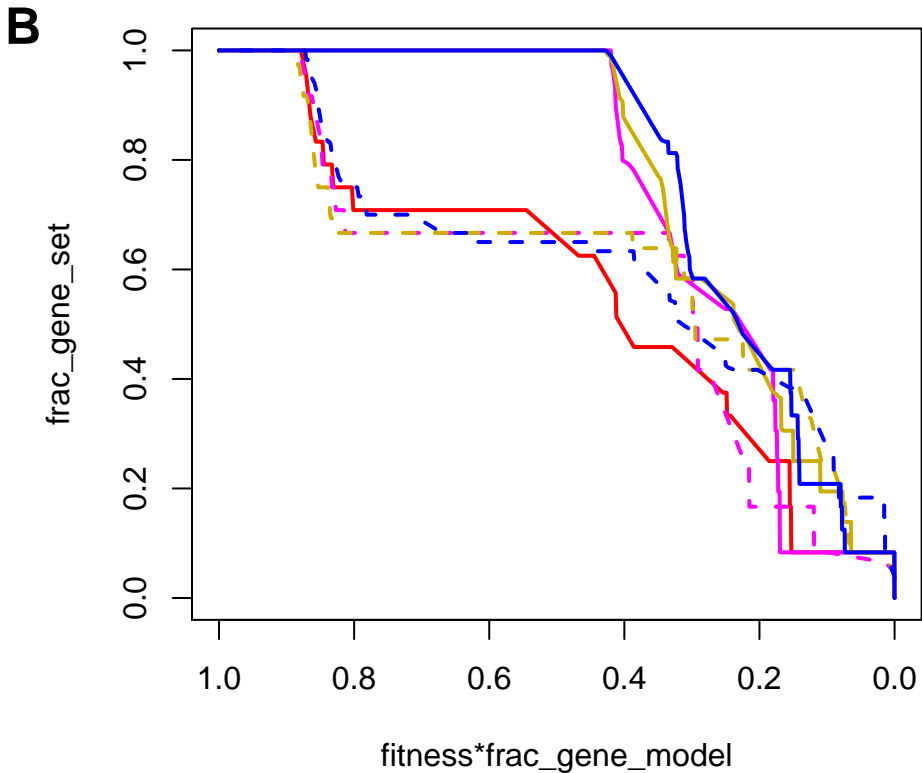
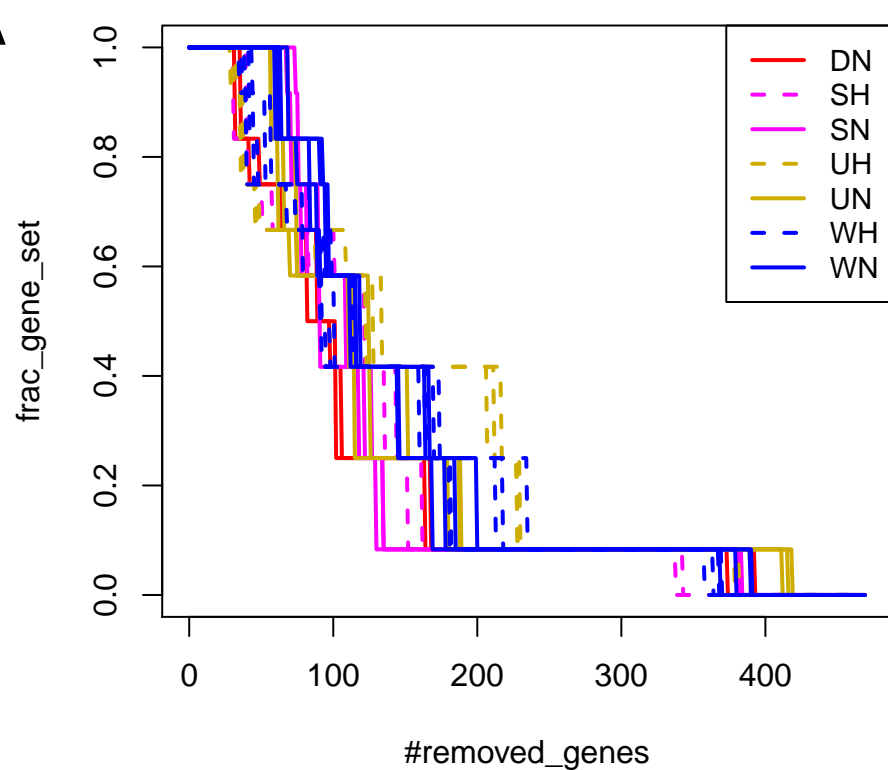
GO:0006541, glutamine mp

$E = 0.22$, $p\text{-val} = 0.044$



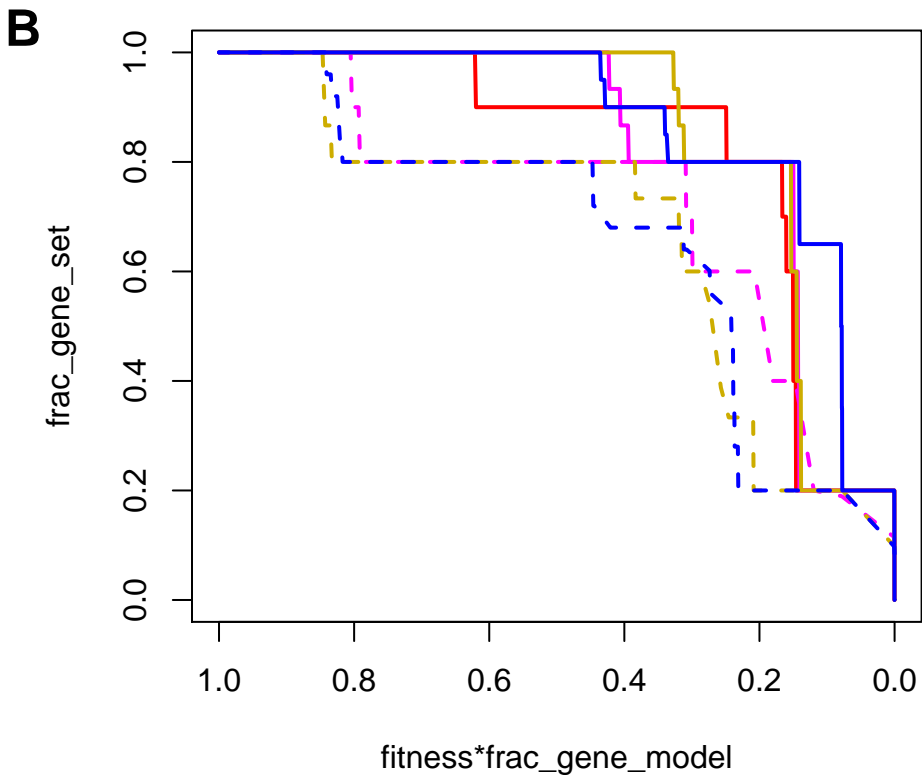
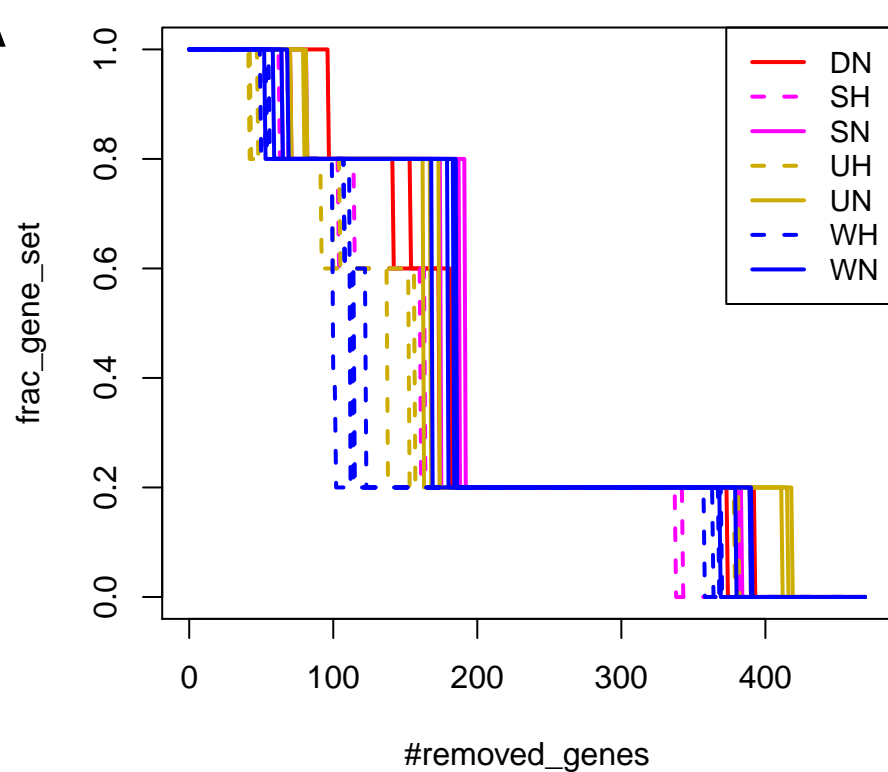
GO:0006221, pyrimidine nucleotide bp

E = 0.22, p-val = 0.052



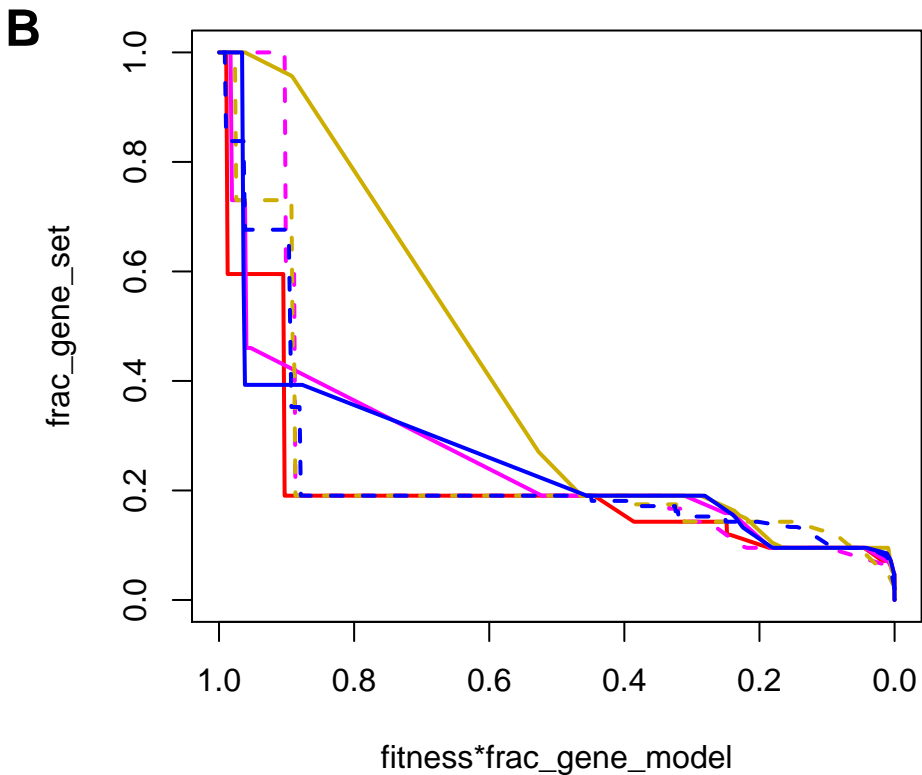
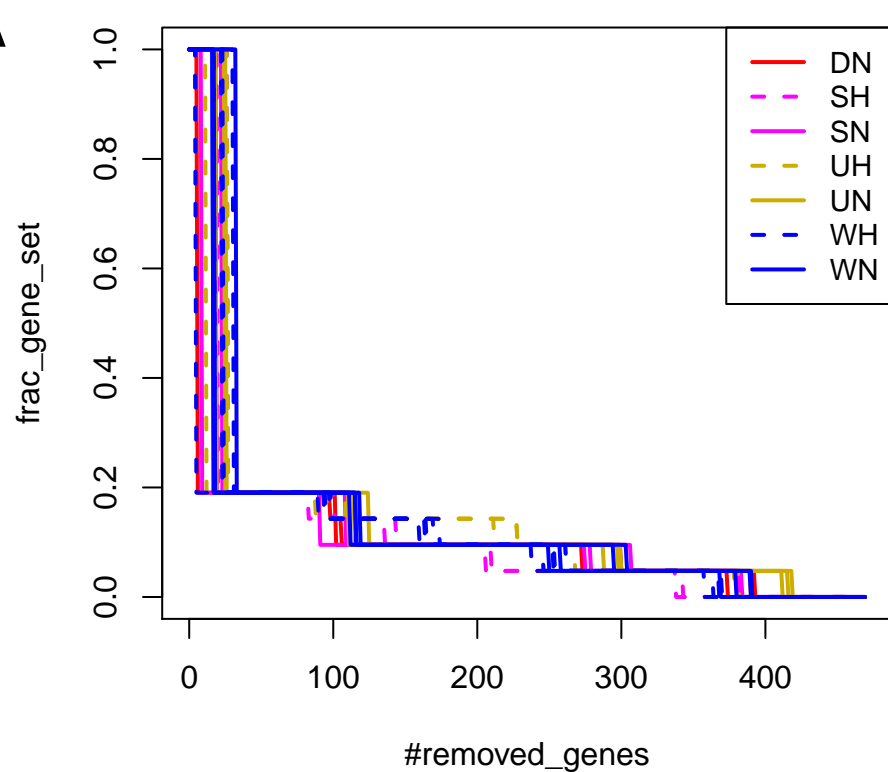
GO:0046033, AMP mp

E = 0.21, p-val = 0.05



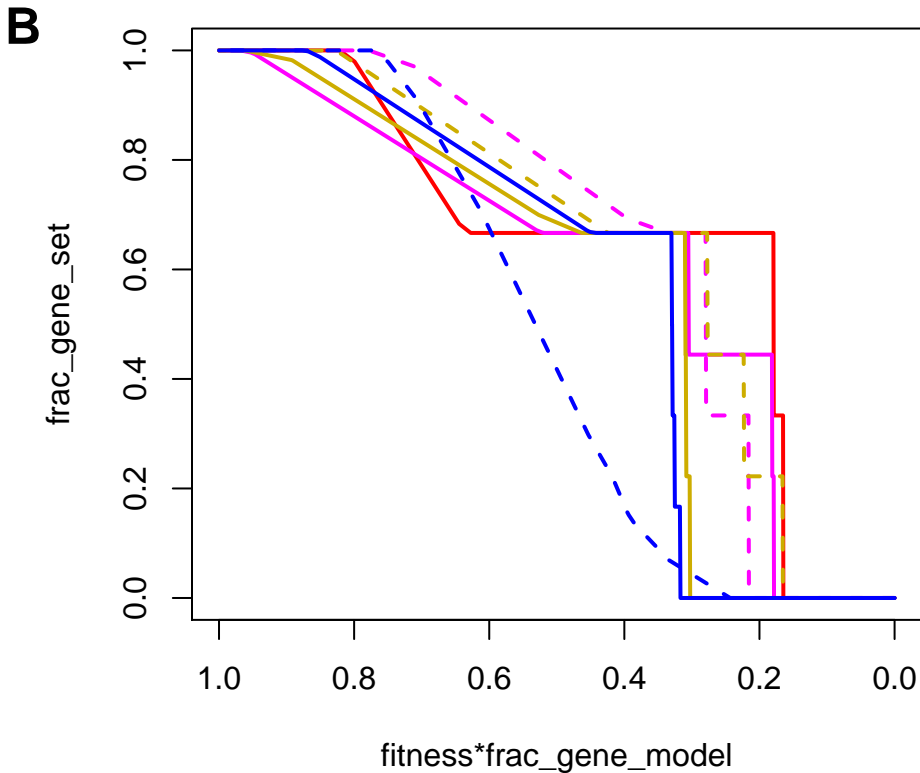
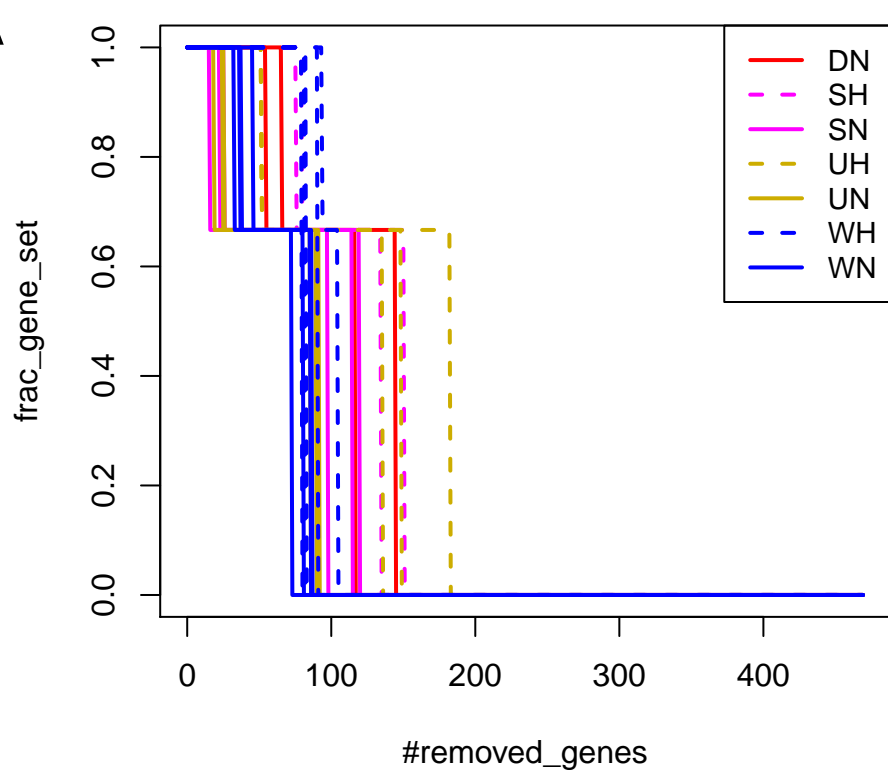
GO:0009201, ribonucleoside triphosphate bp

$E = 0.21$, $p\text{-val} = 0.055$



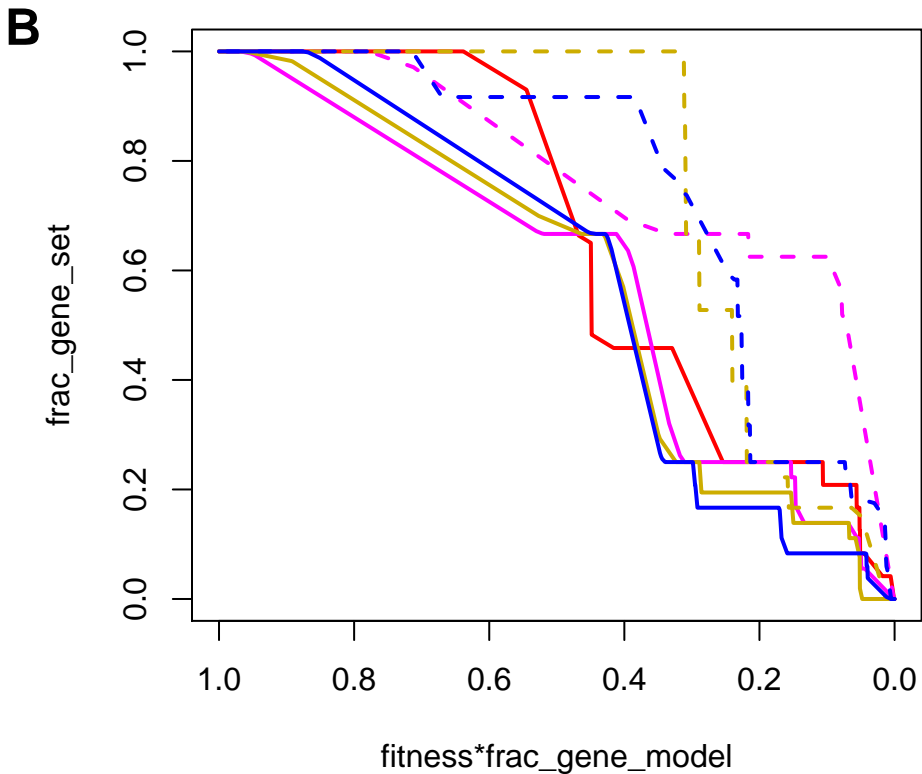
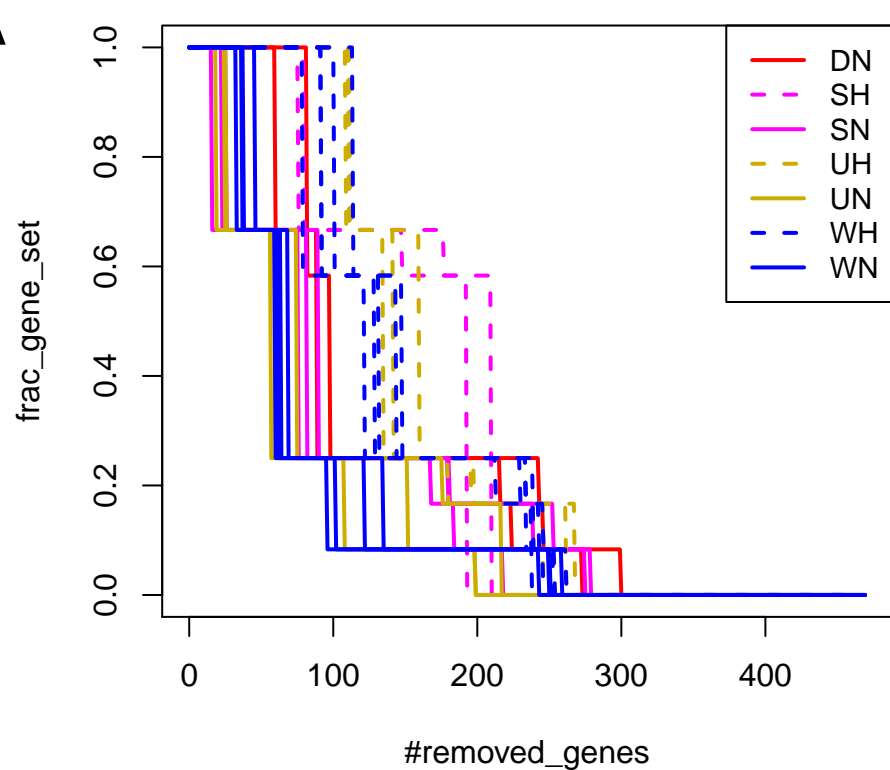
GO:0006633, fatty acid bp

E = 0.21, p-val = 0.033



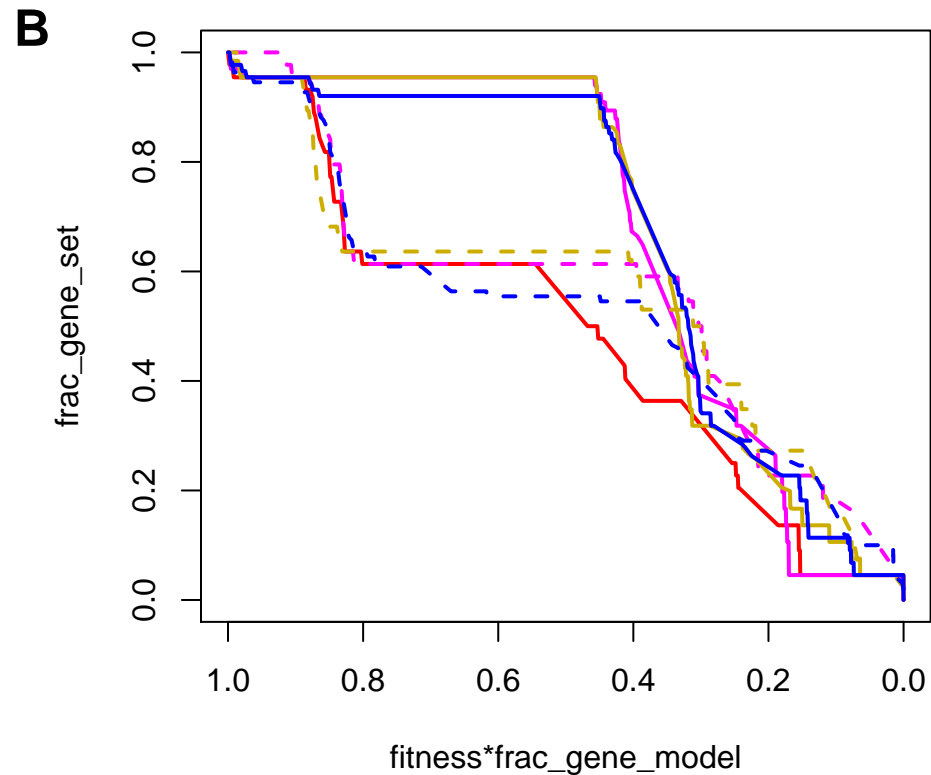
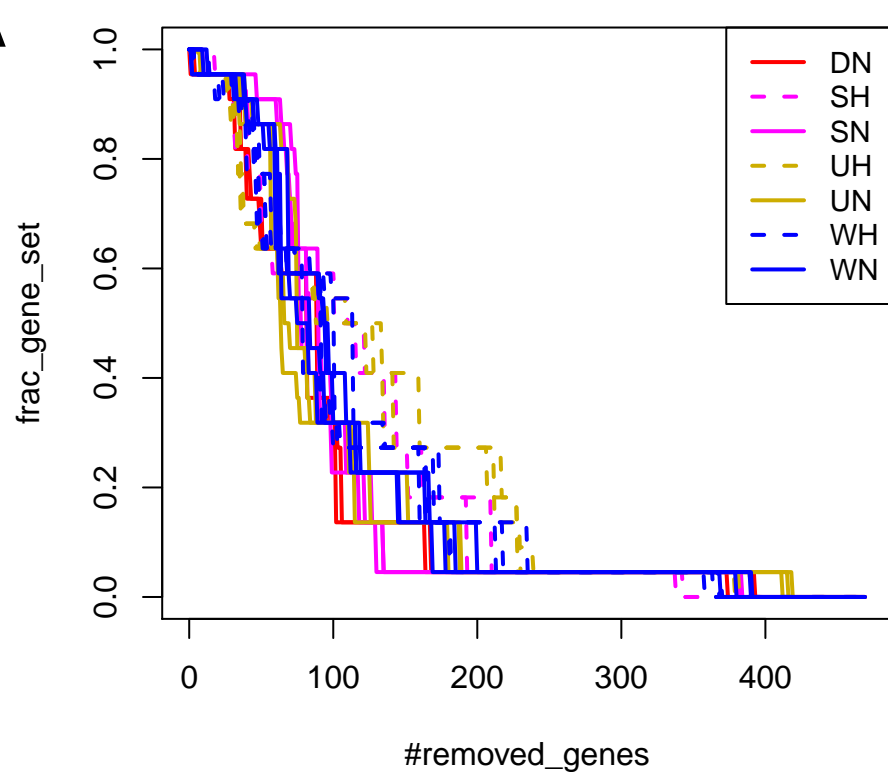
GO:0006525, arginine mp

$E = 0.2$, $p\text{-val} = 0.11$



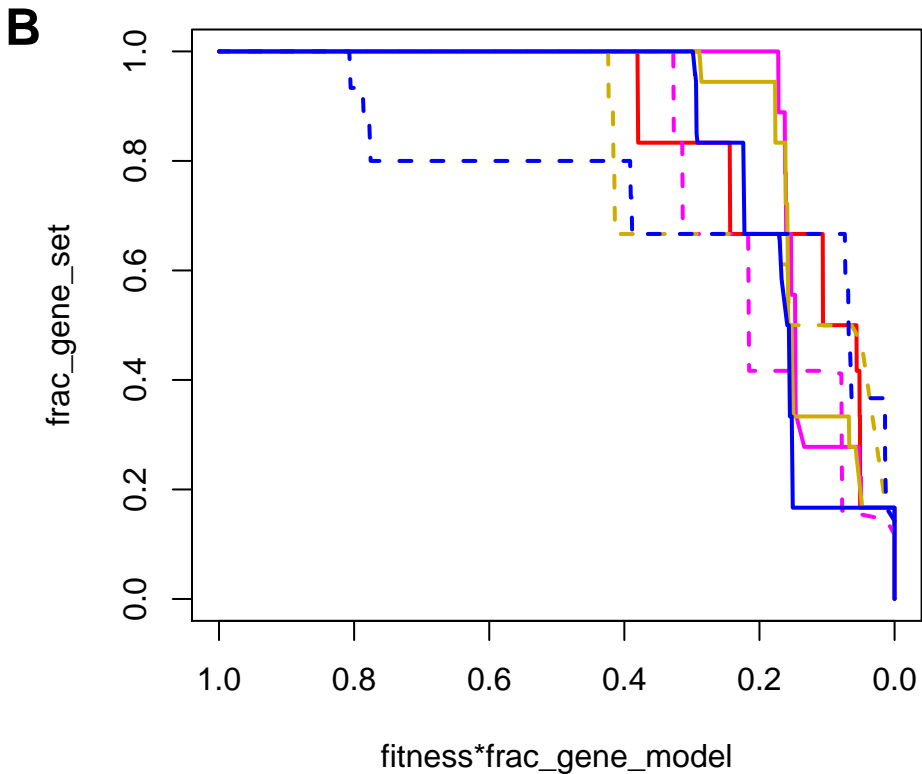
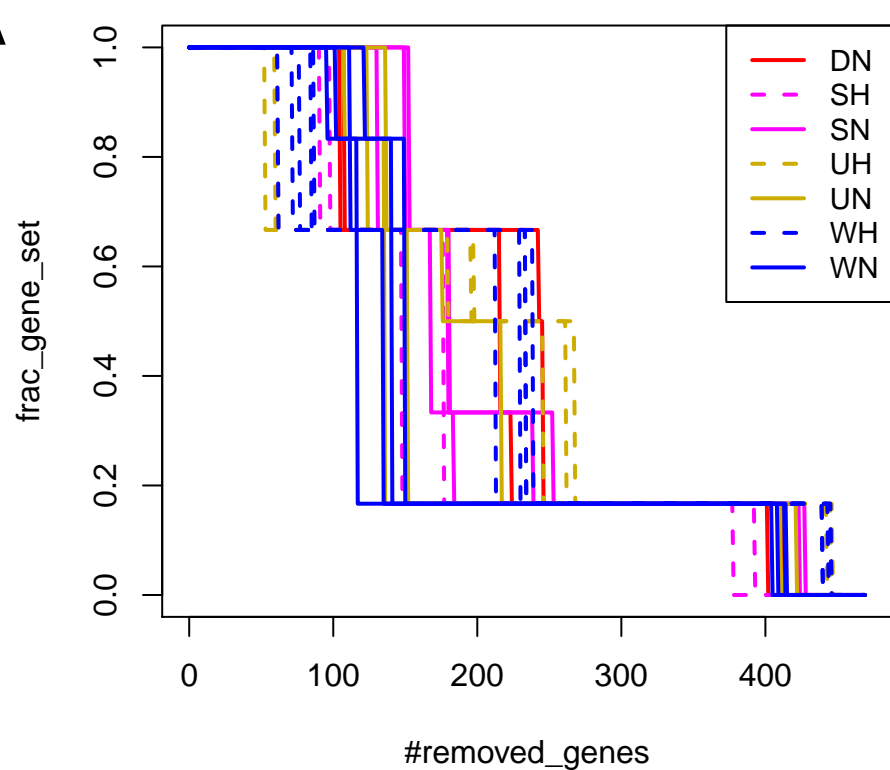
GO:0072528, pyrimidine-containing compound bp

E = 0.2, p-val = 0.093



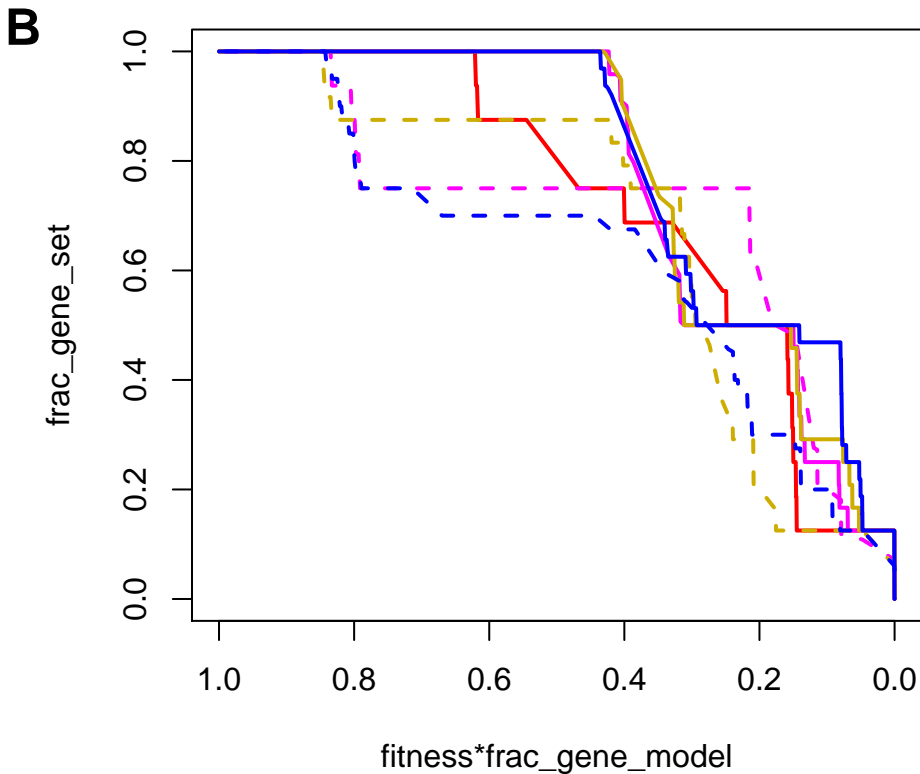
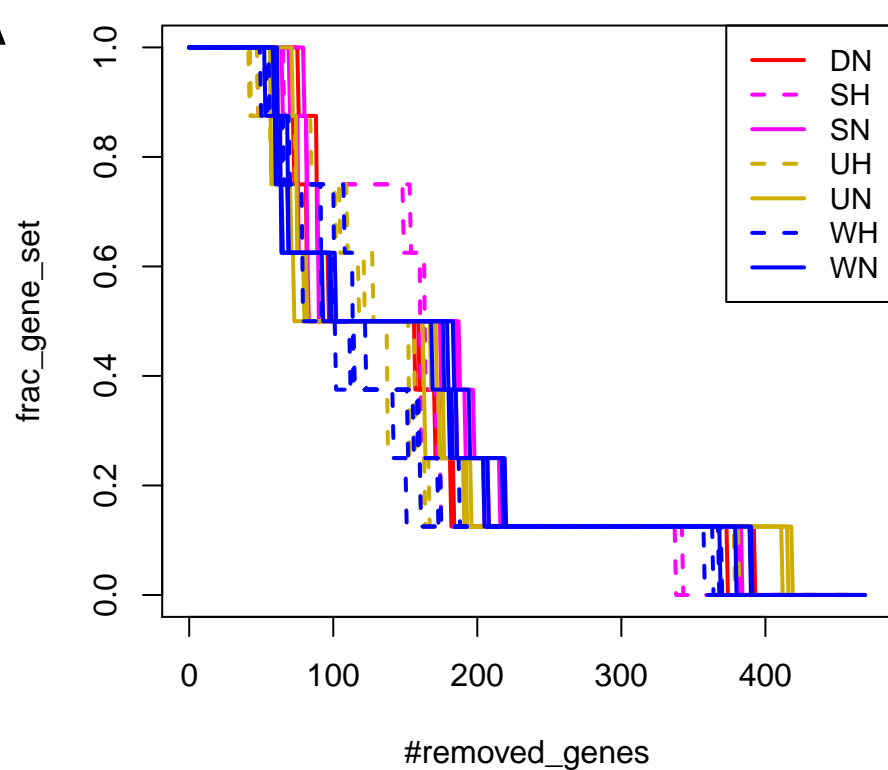
GO:0006560, proline mp

E = 0.19, p-val = 0.036



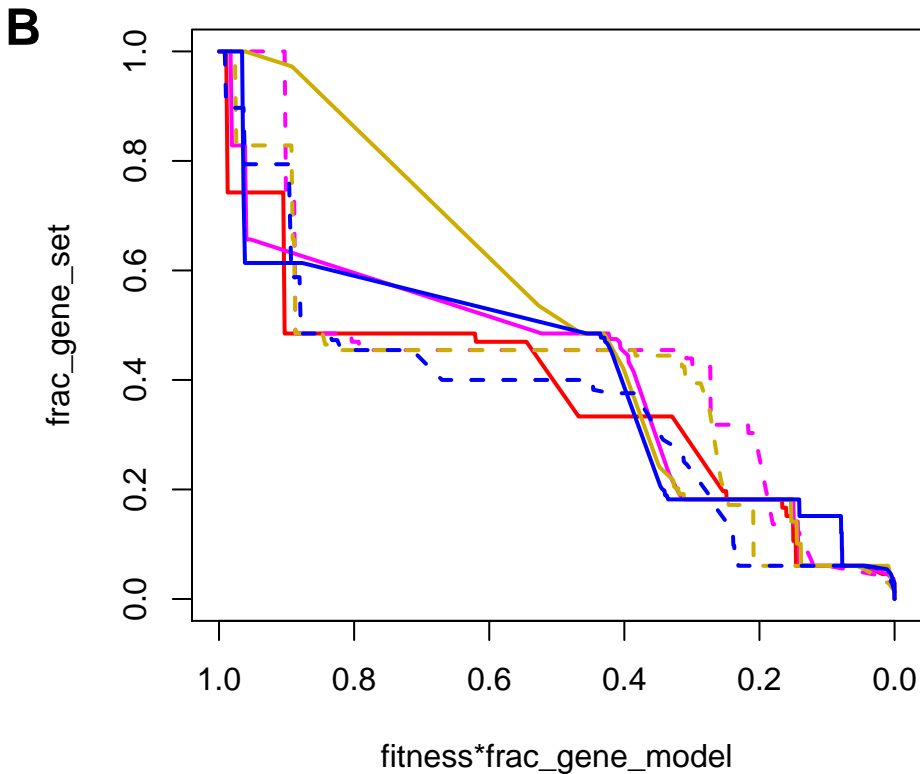
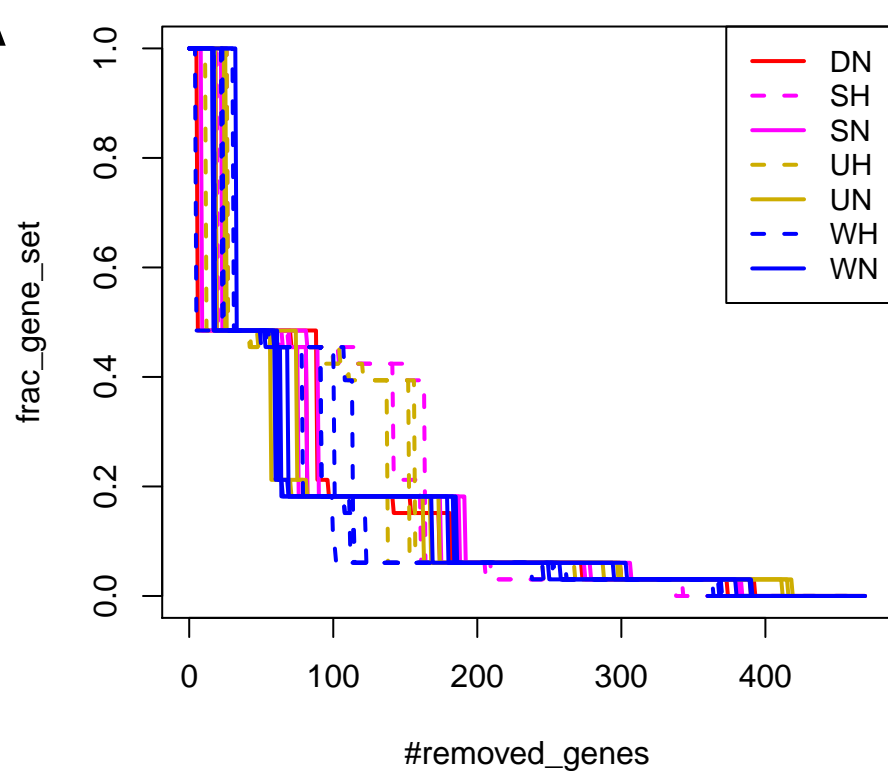
GO:1901068, guanosine-containing compound mp

E = 0.17, p-val = 0.07



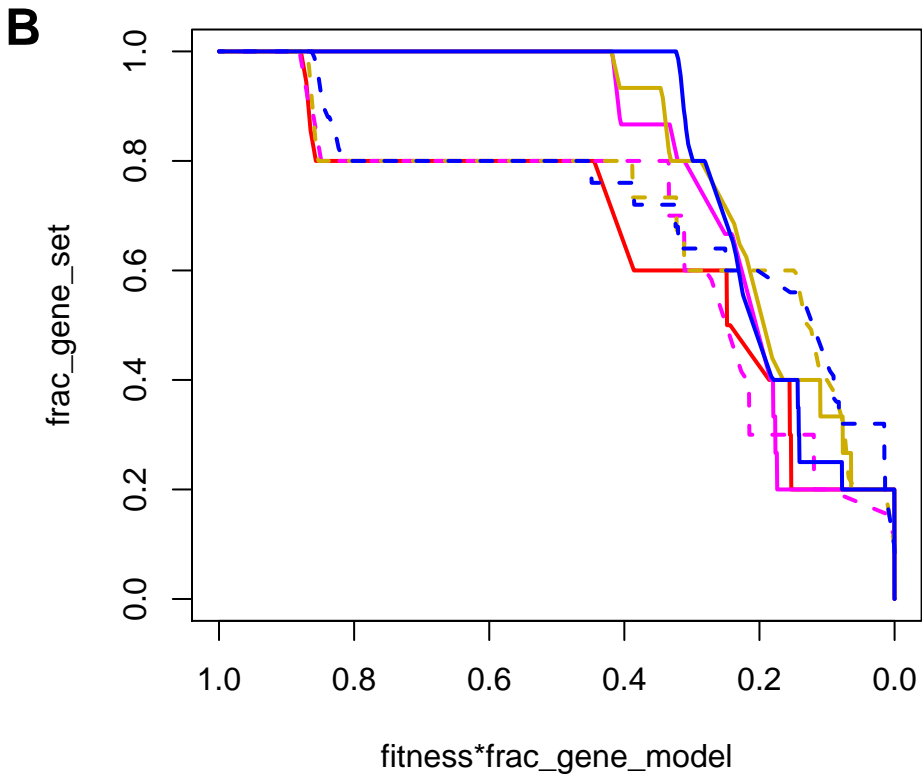
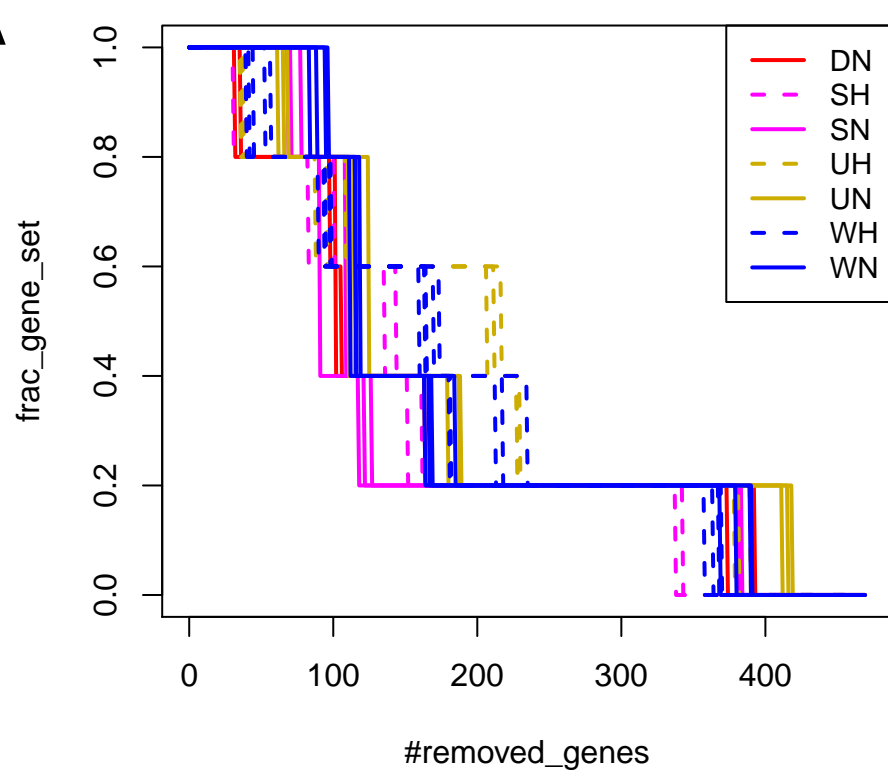
GO:0009168, purine ribonucleoside monophosphate bp

$E = 0.16$, $p\text{-val} = 0.11$



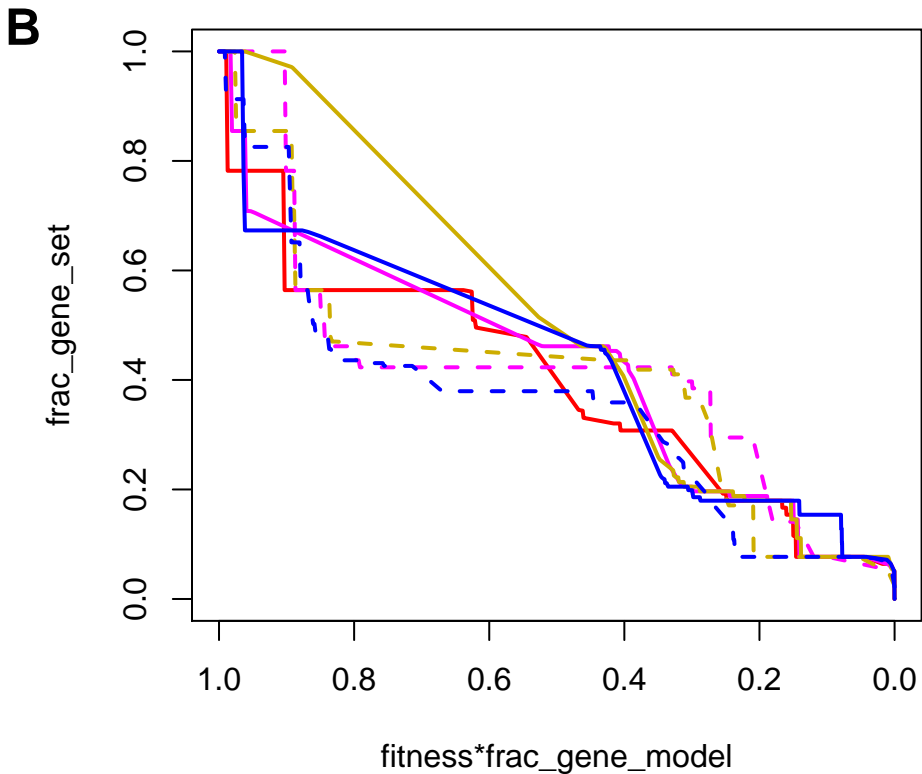
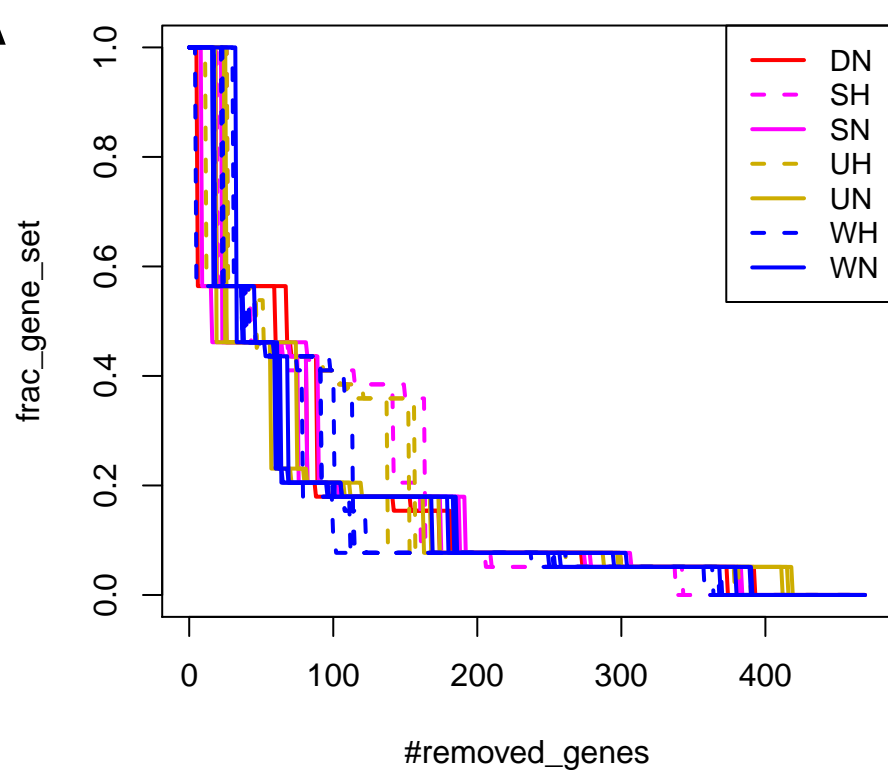
GO:0009148, pyrimidine nucleoside triphosphate bp

$E = 0.16$, $p\text{-val} = 0.084$



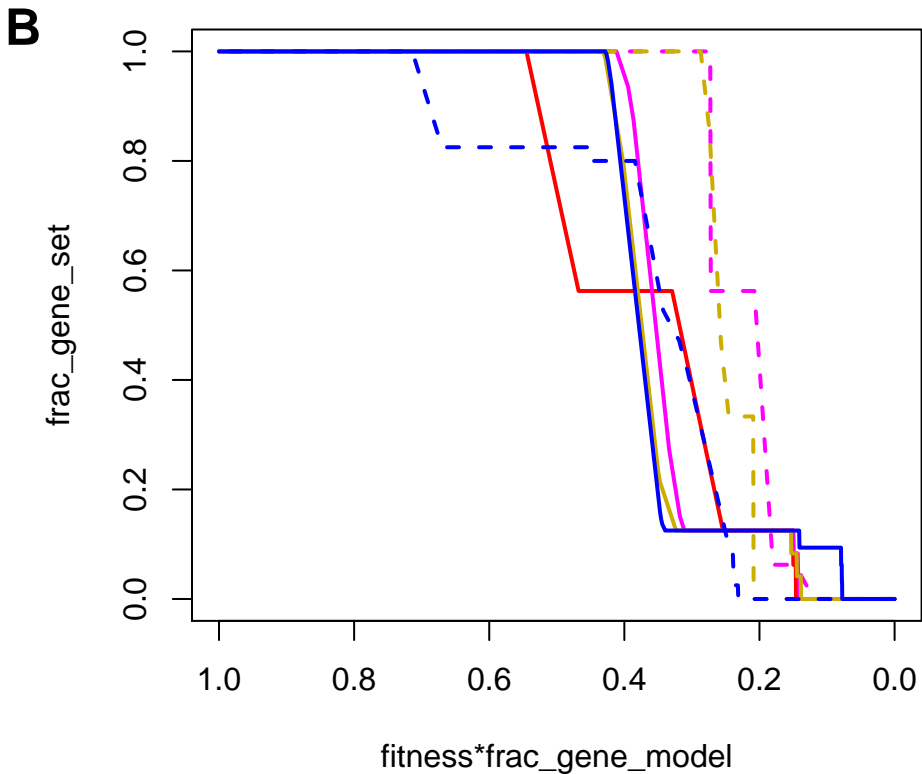
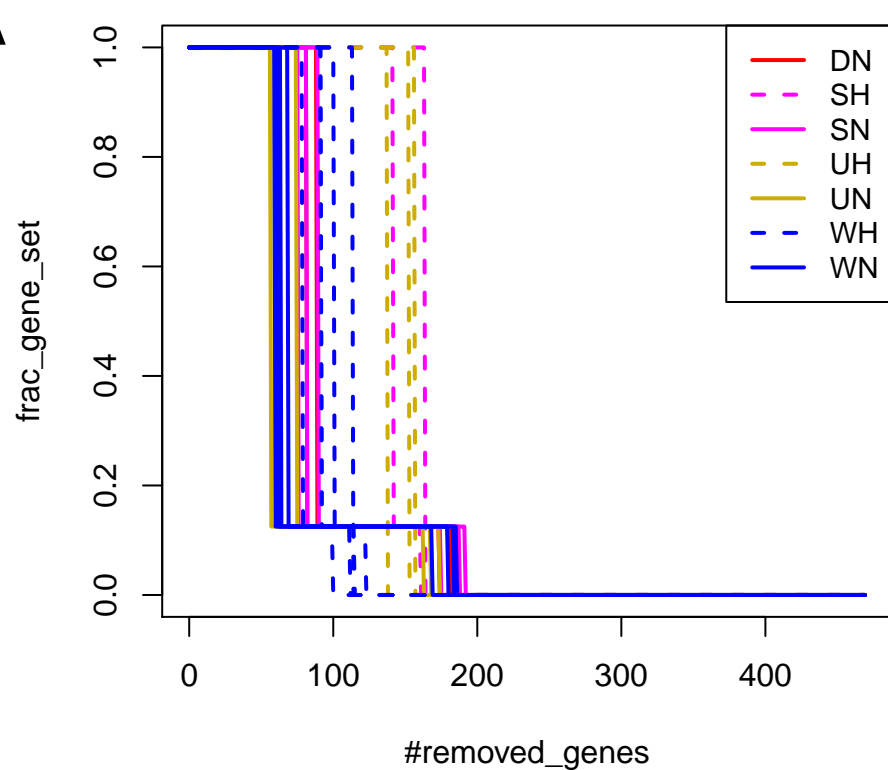
GO:0009152, purine ribonucleotide bp

$E = 0.16$, $p\text{-val} = 0.077$



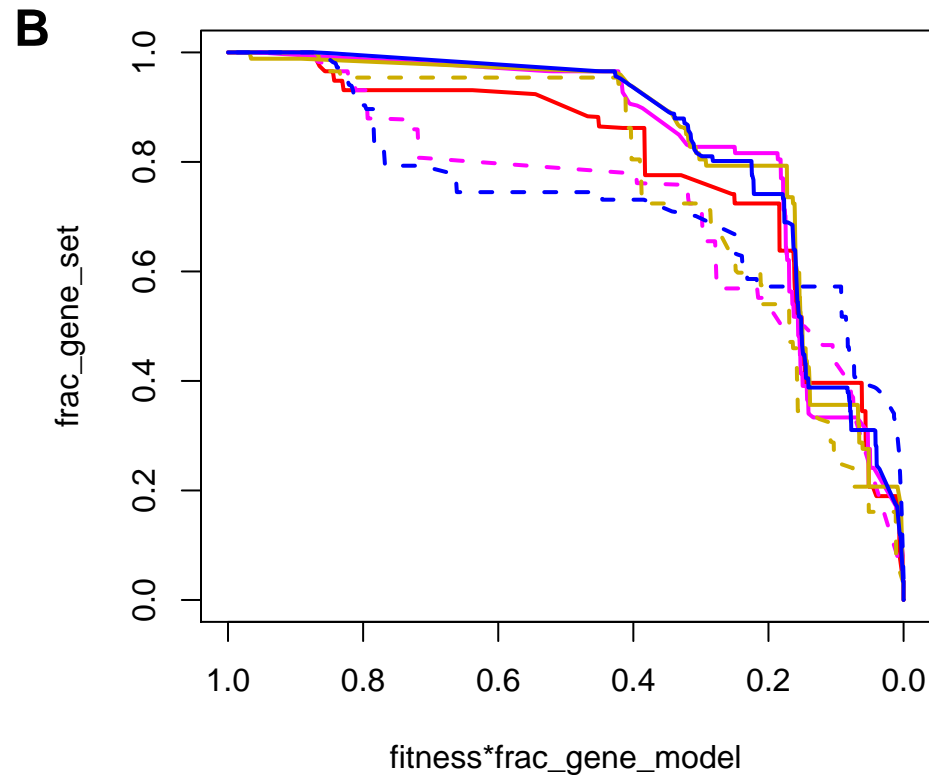
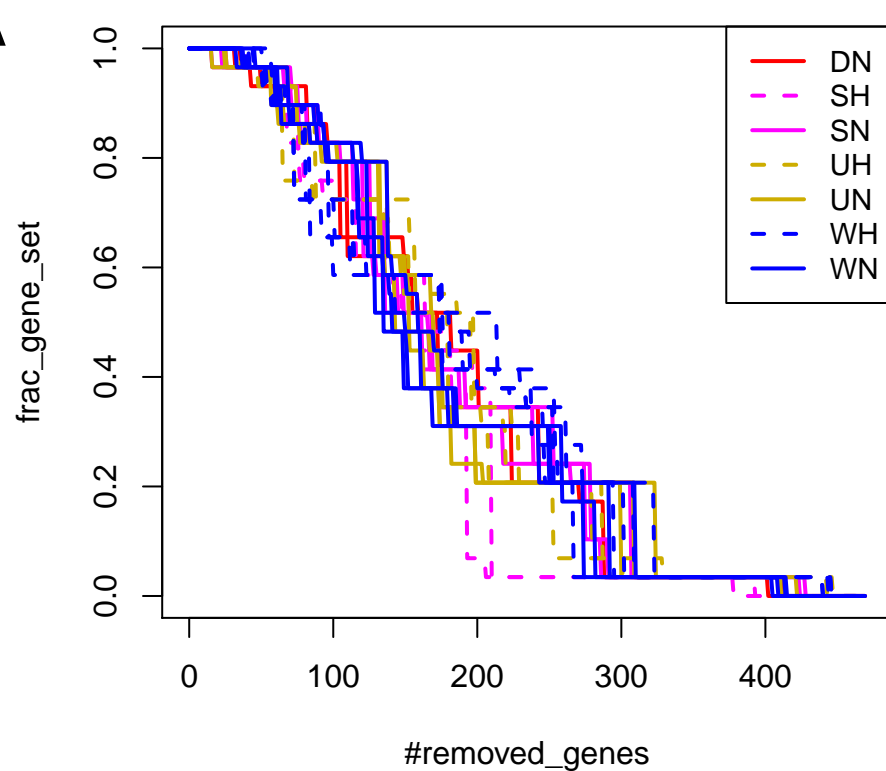
GO:0006189, 'de novo' IMP bp

E = 0.15, p-val = 0.54



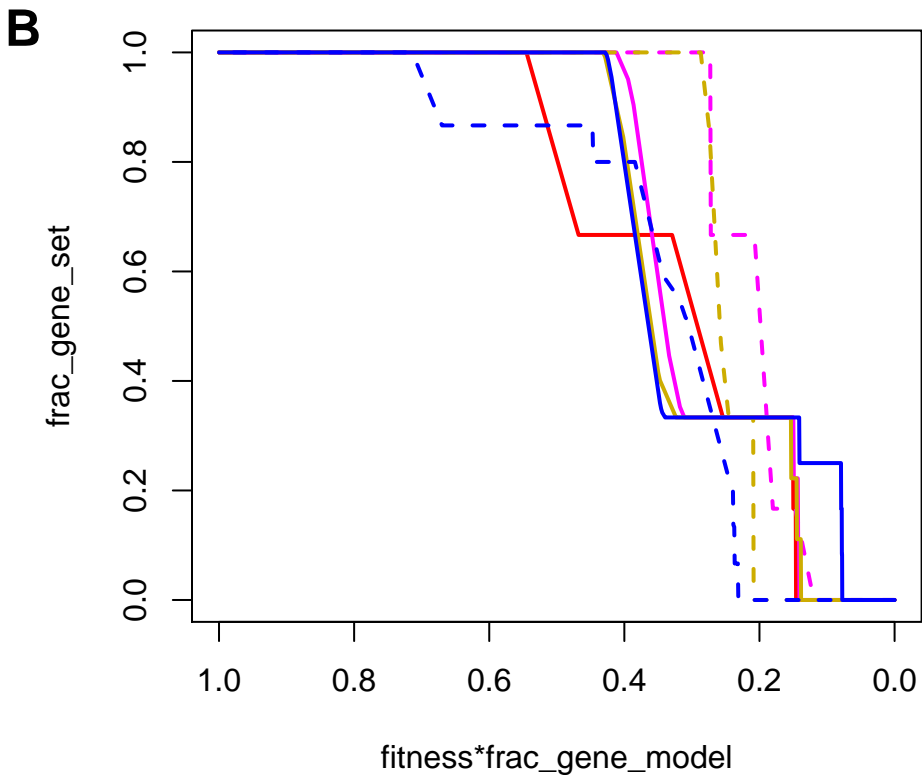
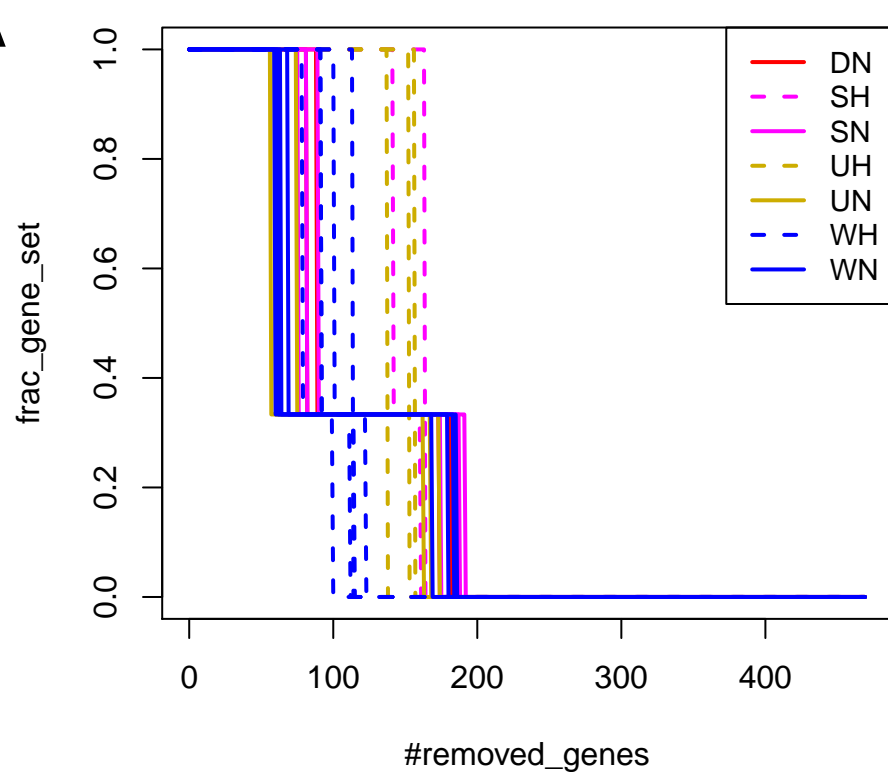
GO:0043648, dicarboxylic acid mp

E = 0.15, p-val = 0.044



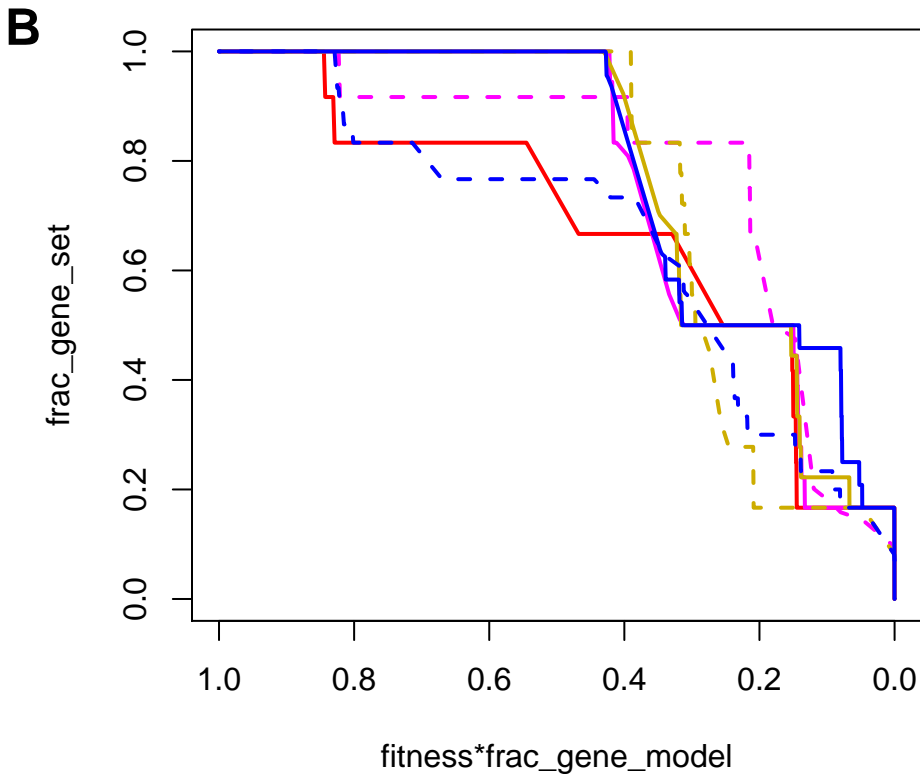
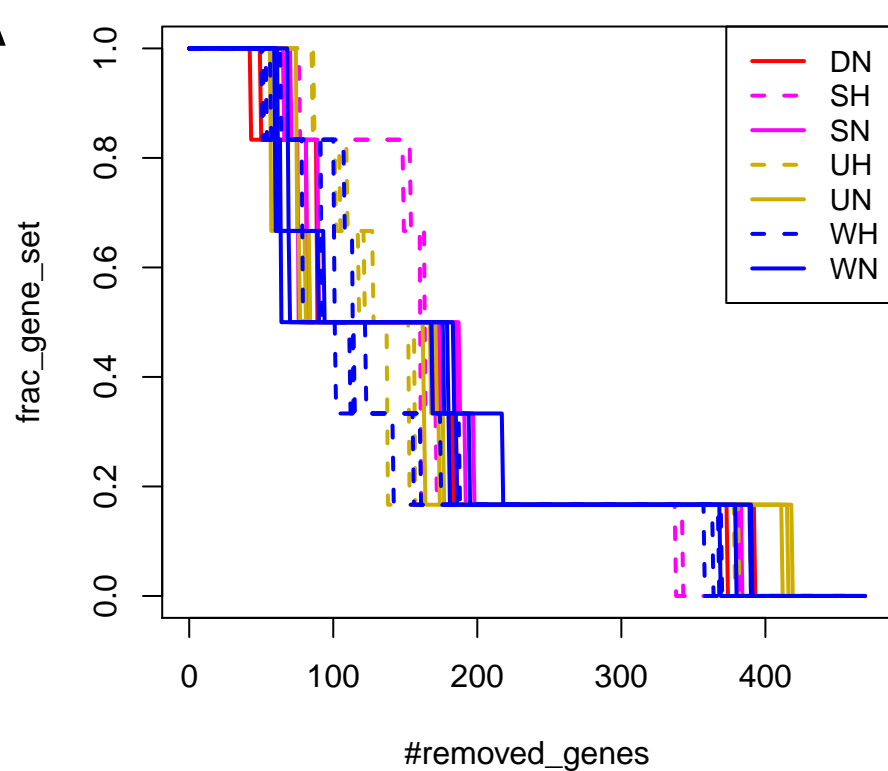
GO:0046938, phytochelatin bp

E = 0.15, p-val = 0.46



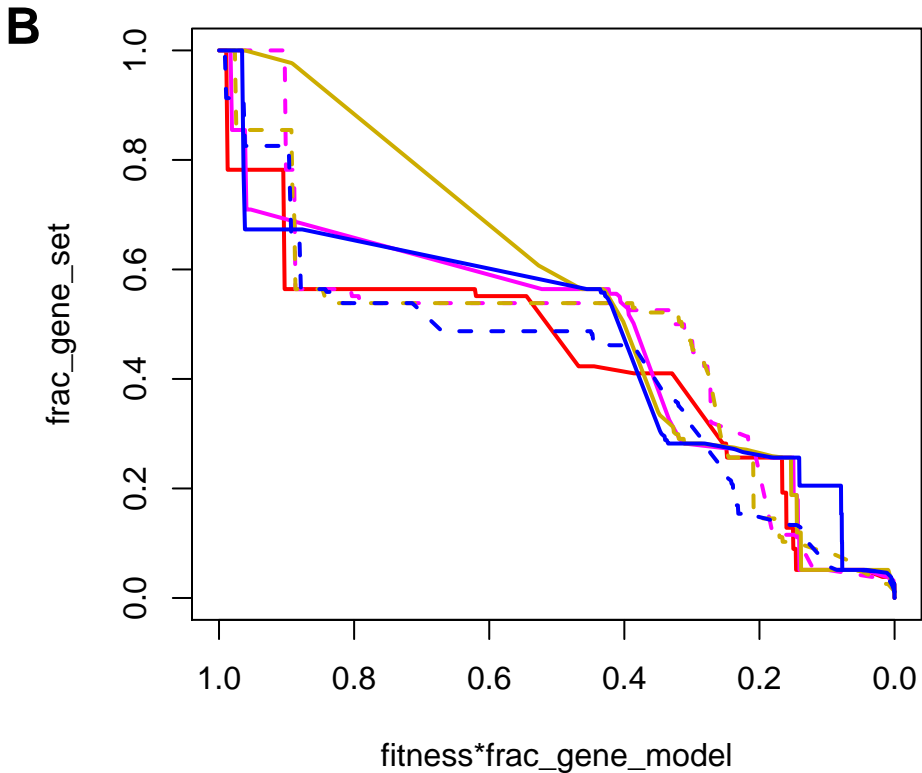
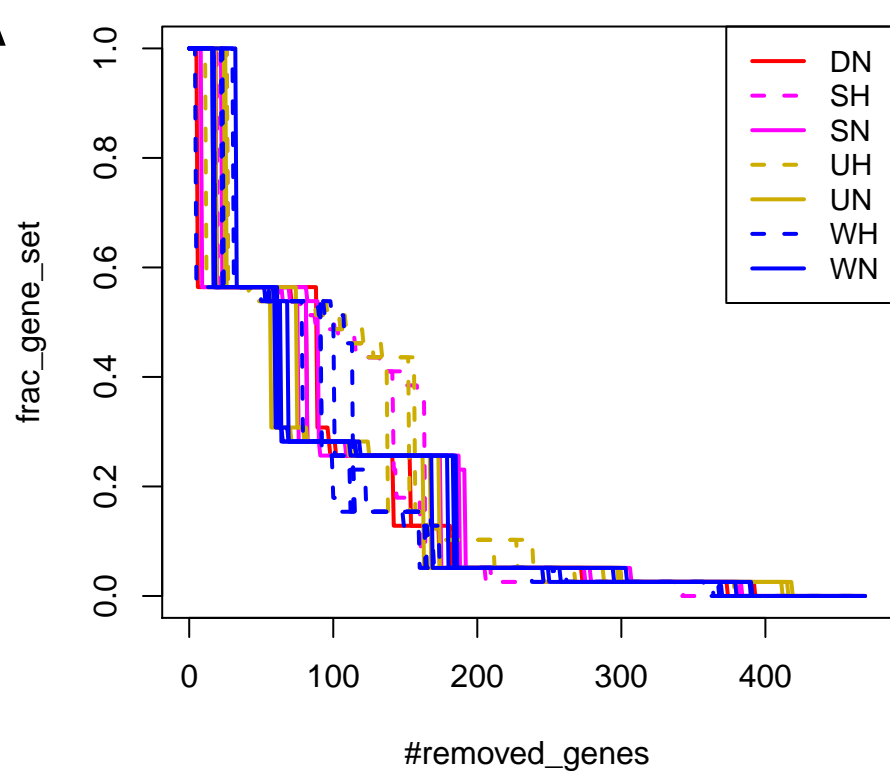
GO:0046129, purine ribonucleoside bp

E = 0.14, p-val = 0.11



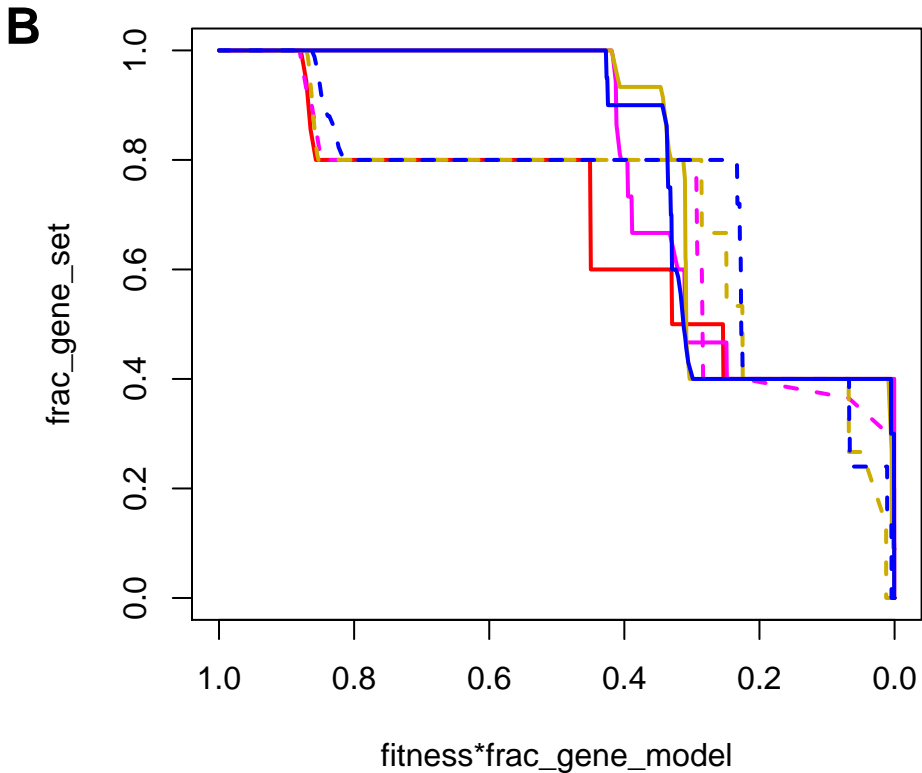
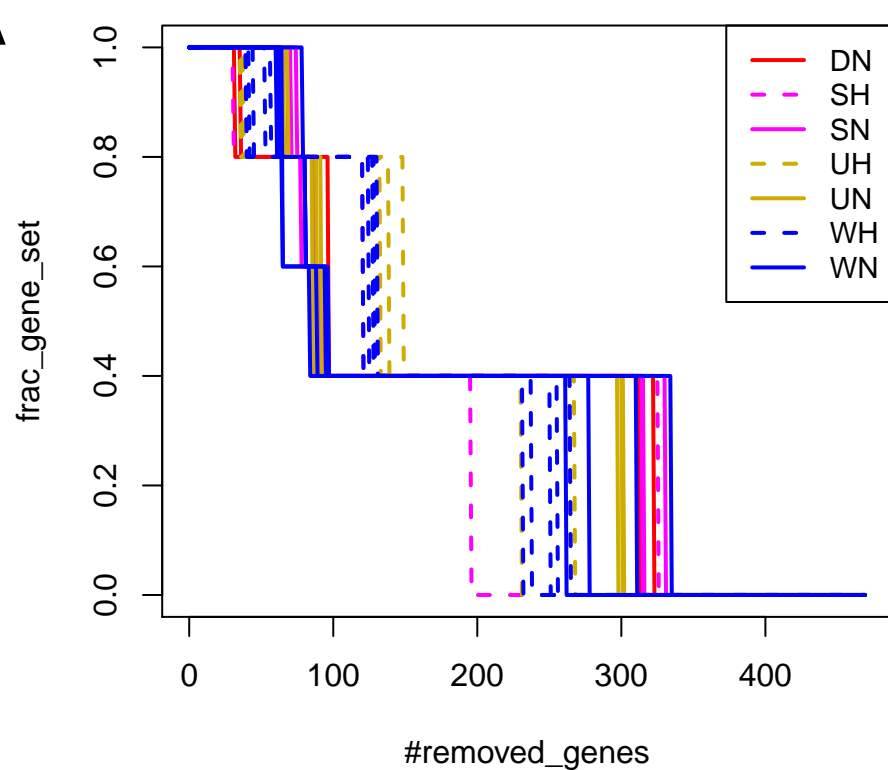
GO:0009156, ribonucleoside monophosphate bp

E = 0.14, p-val = 0.12



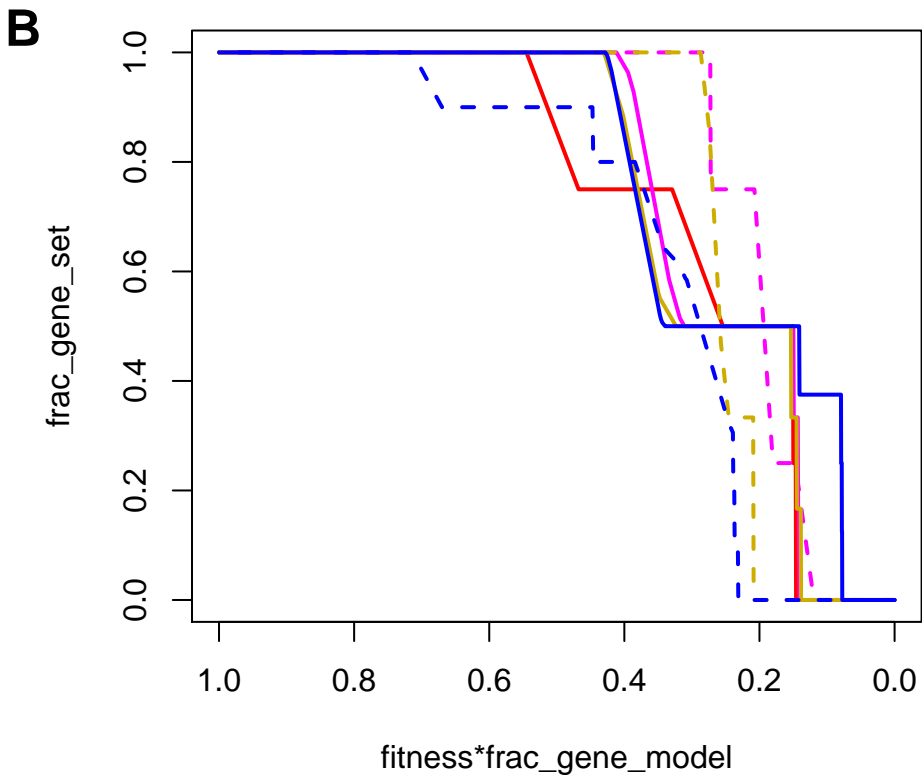
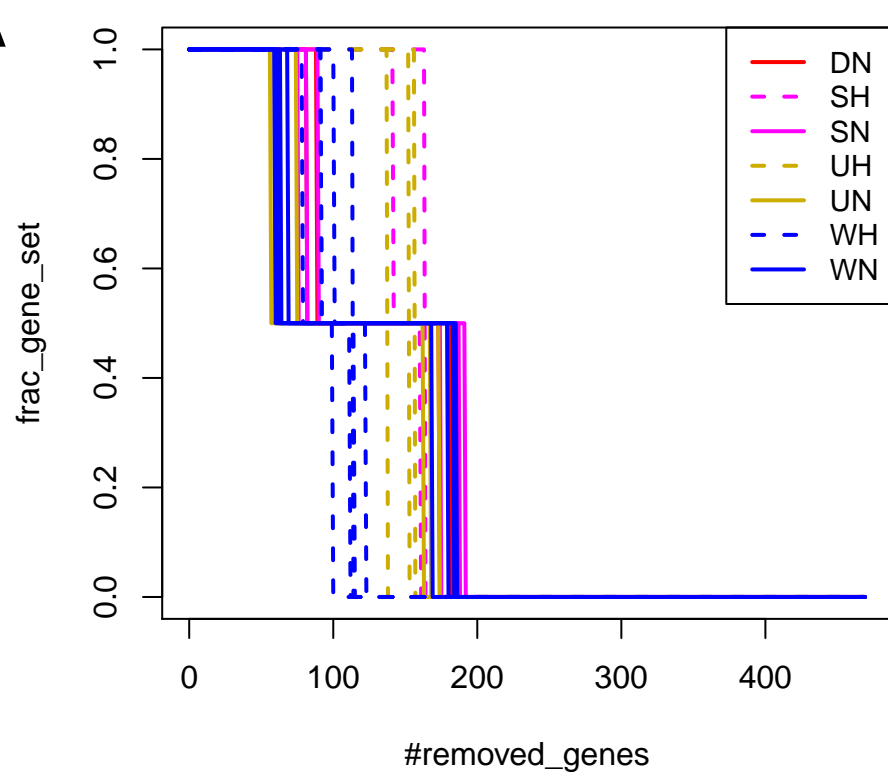
GO:0046653, tetrahydrofolate mp

E = 0.14, p-val = 0.066



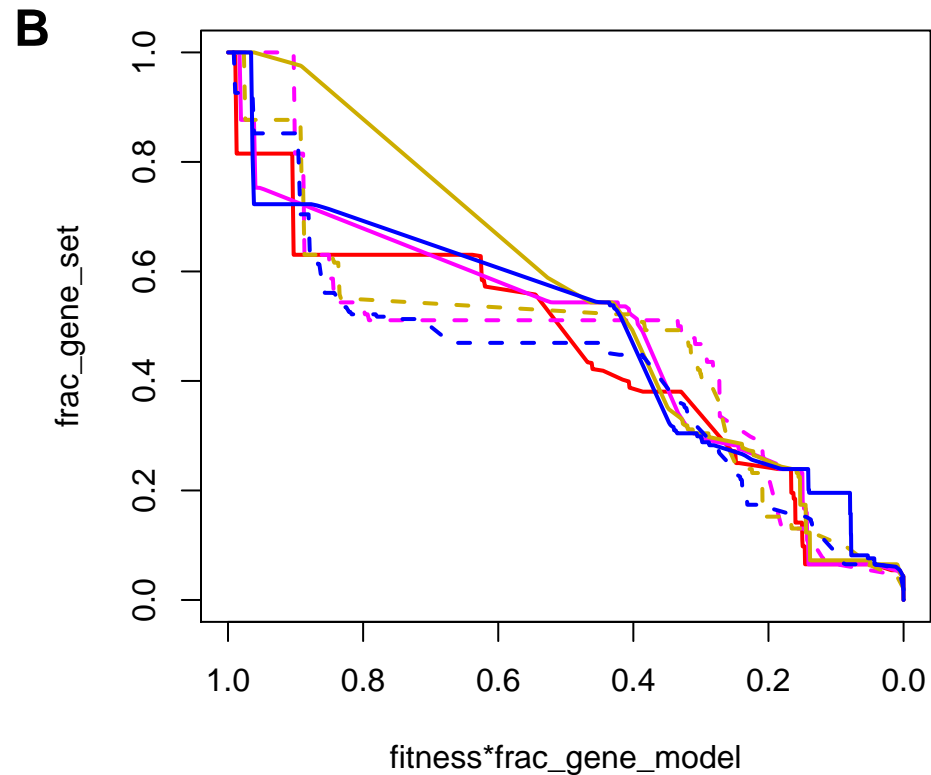
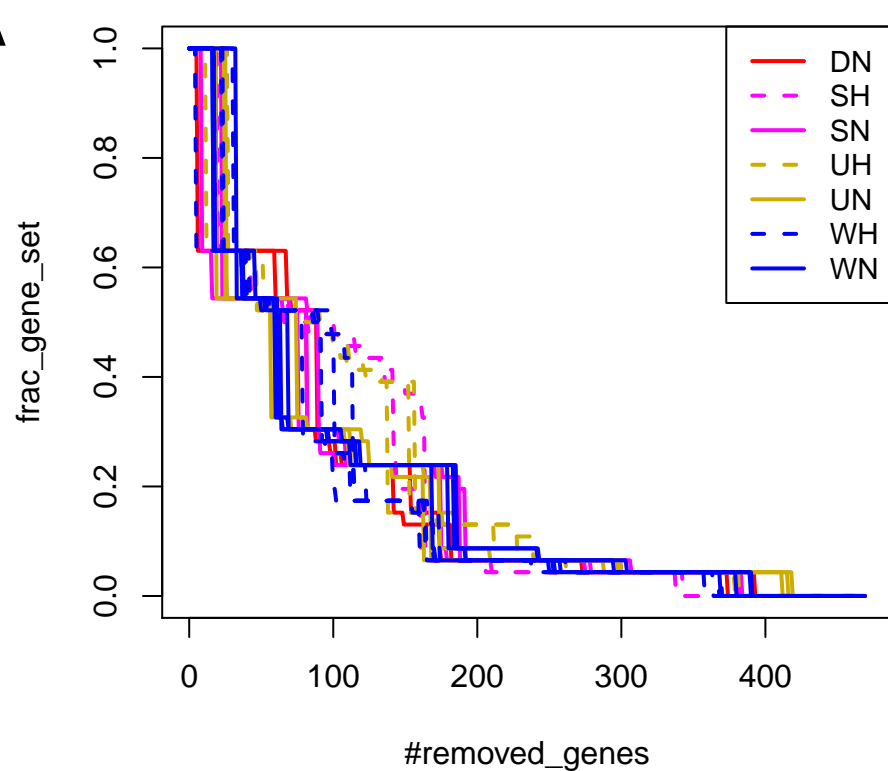
GO:0071585, detoxification of cadmium ion

E = 0.14, p-val = 0.41



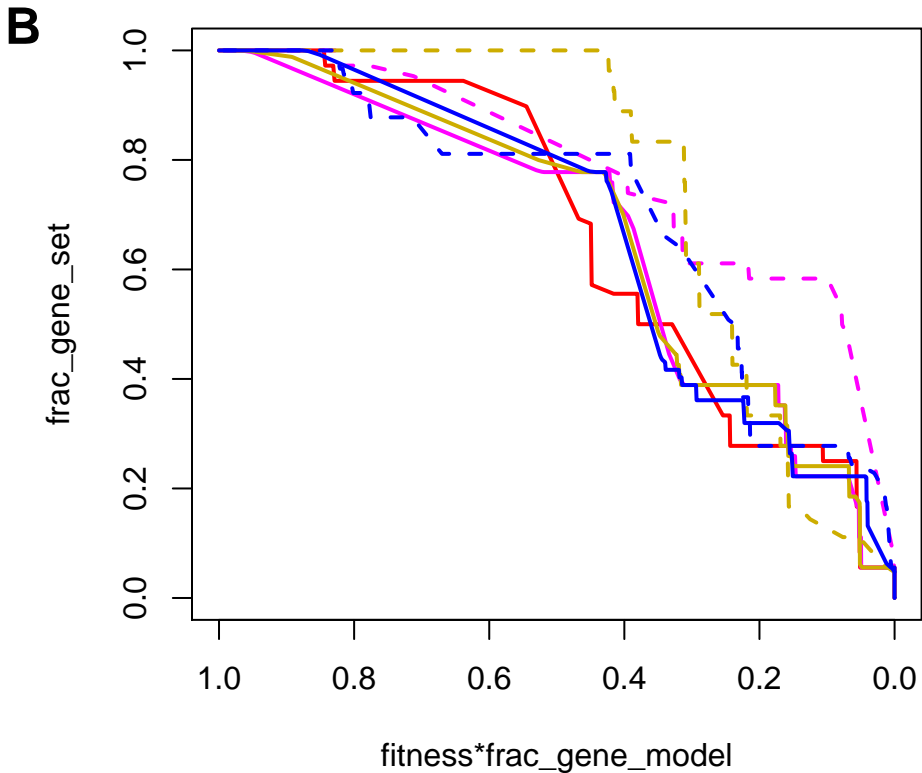
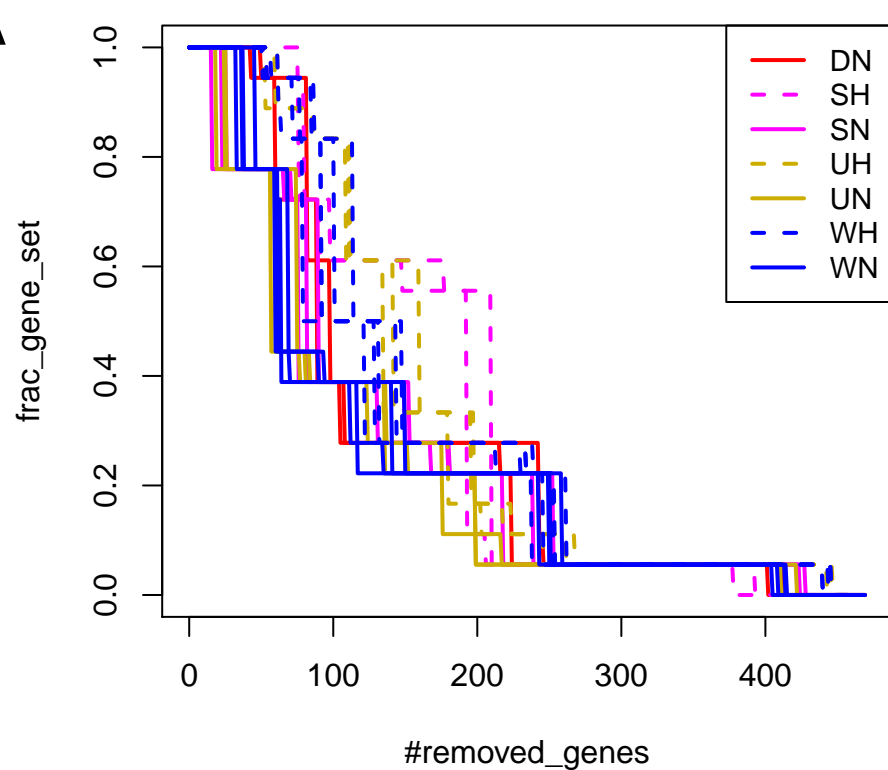
GO:0046390, ribose phosphate bp

$E = 0.14$, $p\text{-val} = 0.091$



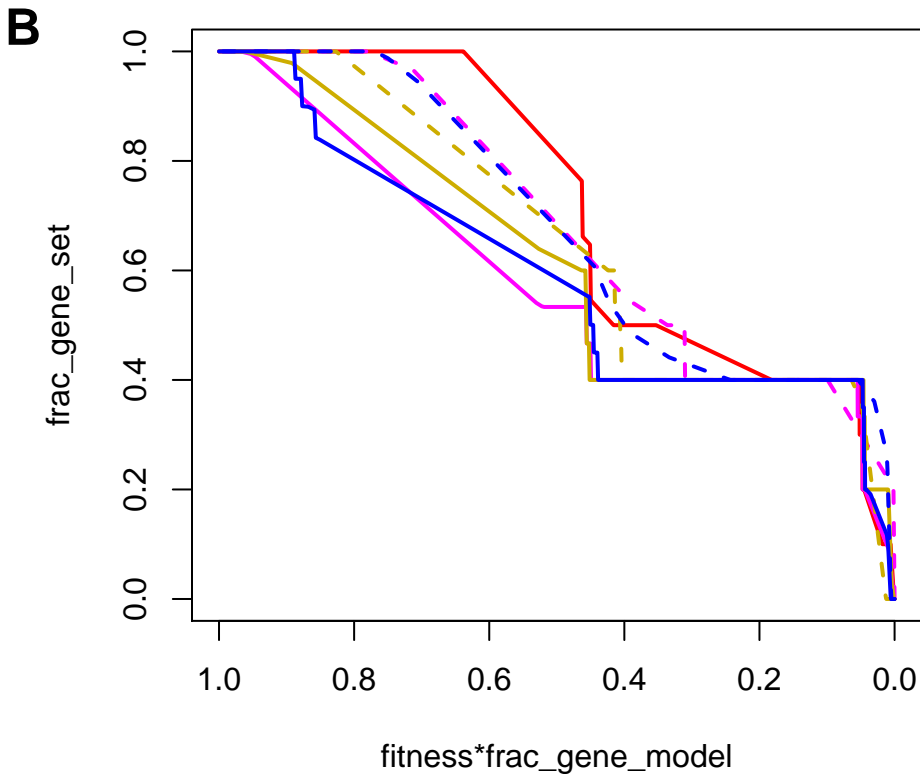
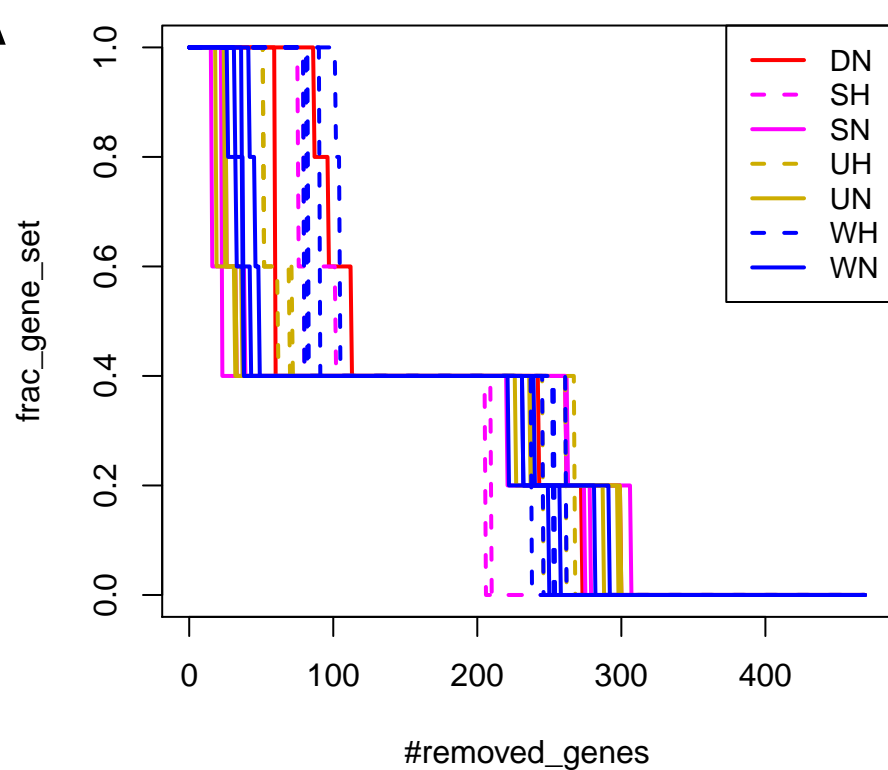
GO:0009084, glutamine family aa bp

$E = 0.13$, $p\text{-val} = 0.078$



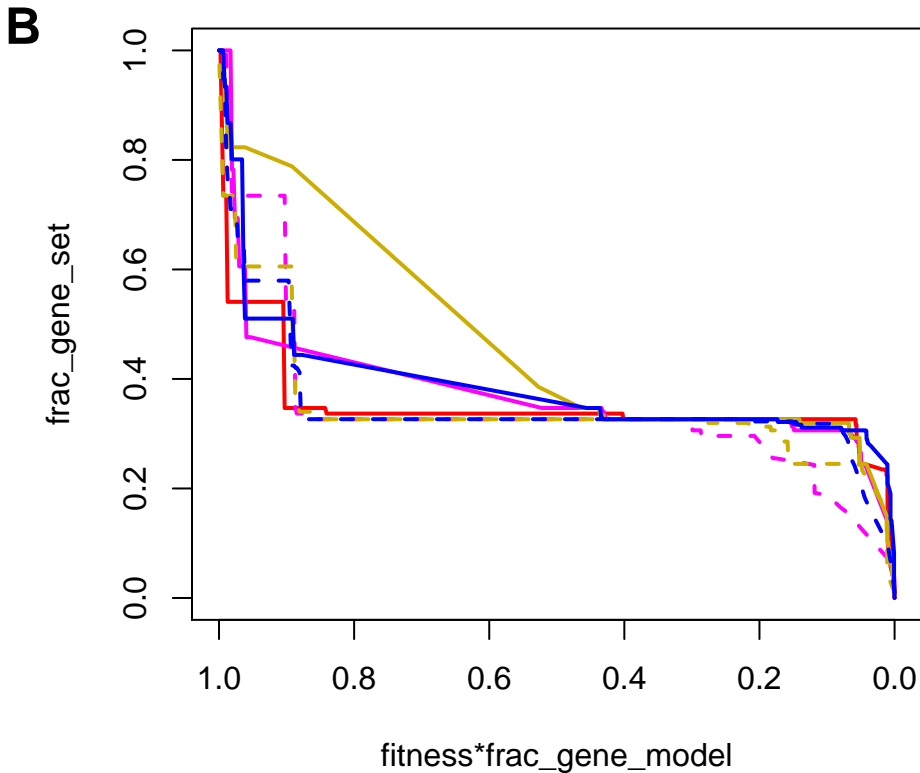
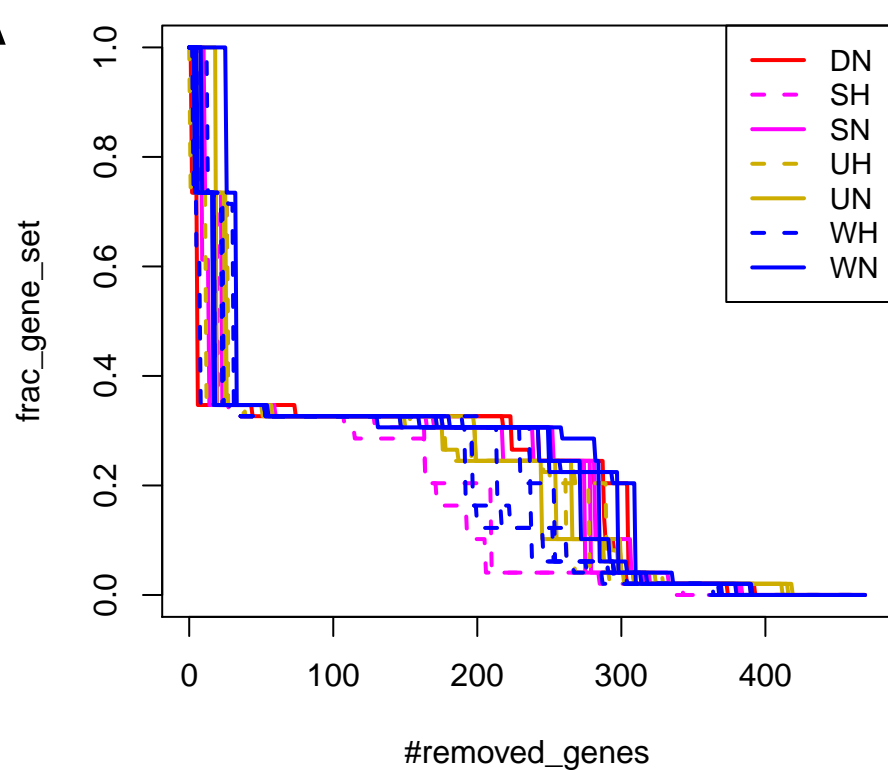
GO:0006641, triglyceride mp

$E = 0.13$, $p\text{-val} = 0.058$



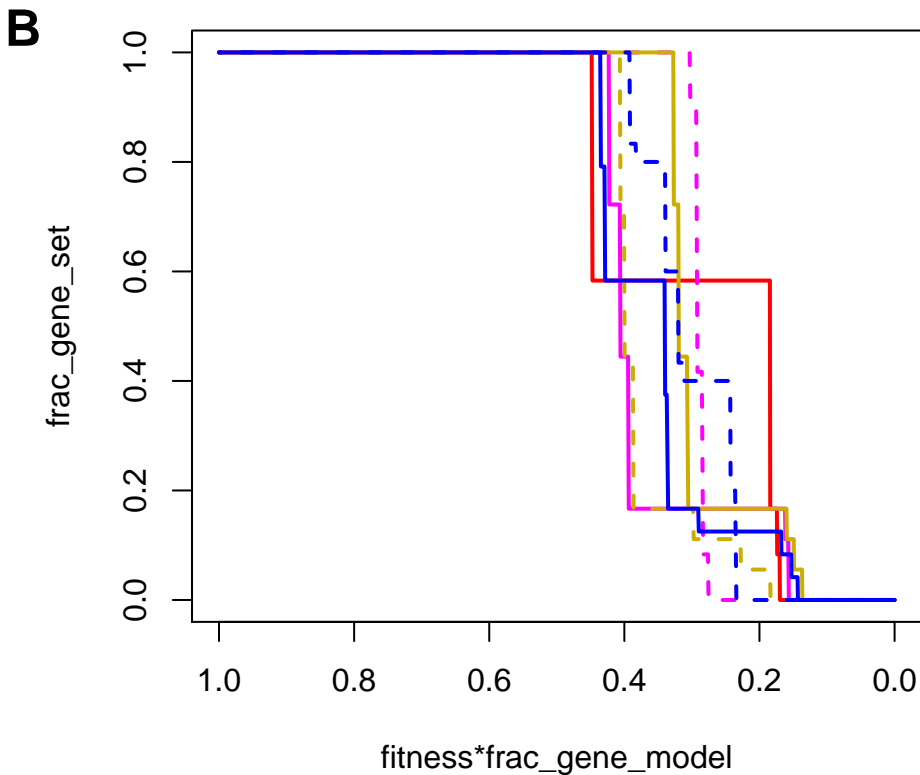
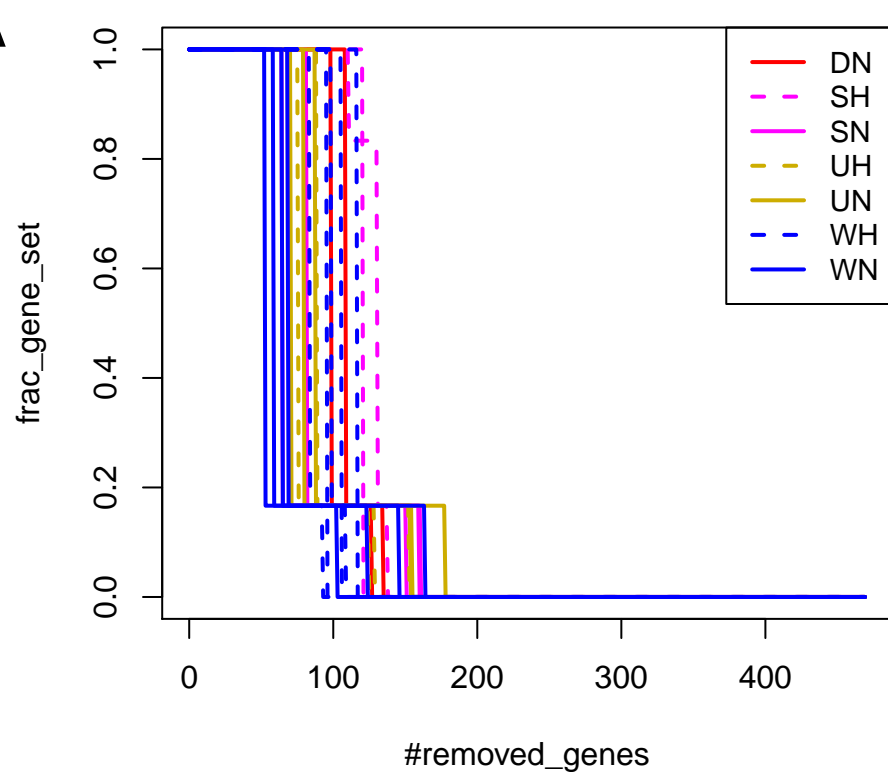
GO:0046034, ATP mp

E = 0.13, p-val = 0.051



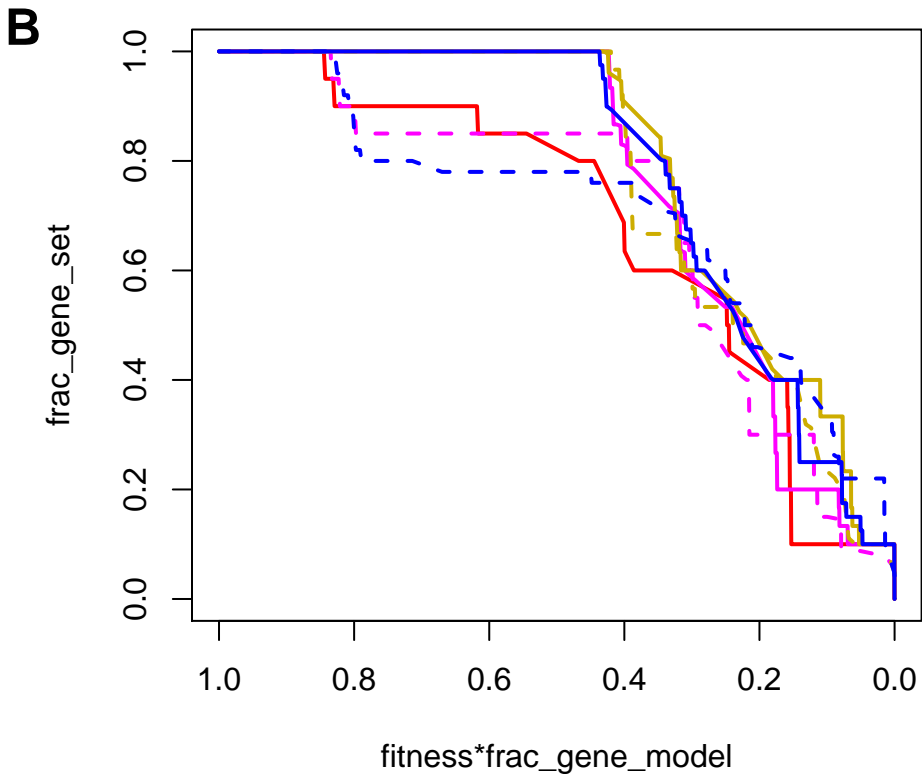
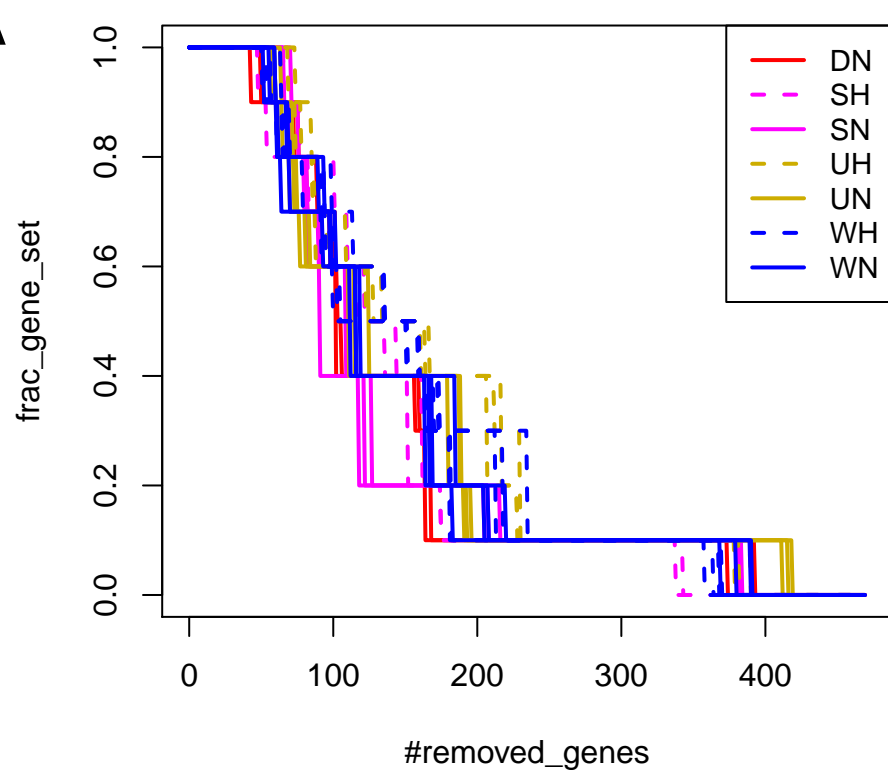
GO:0000103, sulfate assimilation

$E = 0.12$, $p\text{-val} = 0.15$



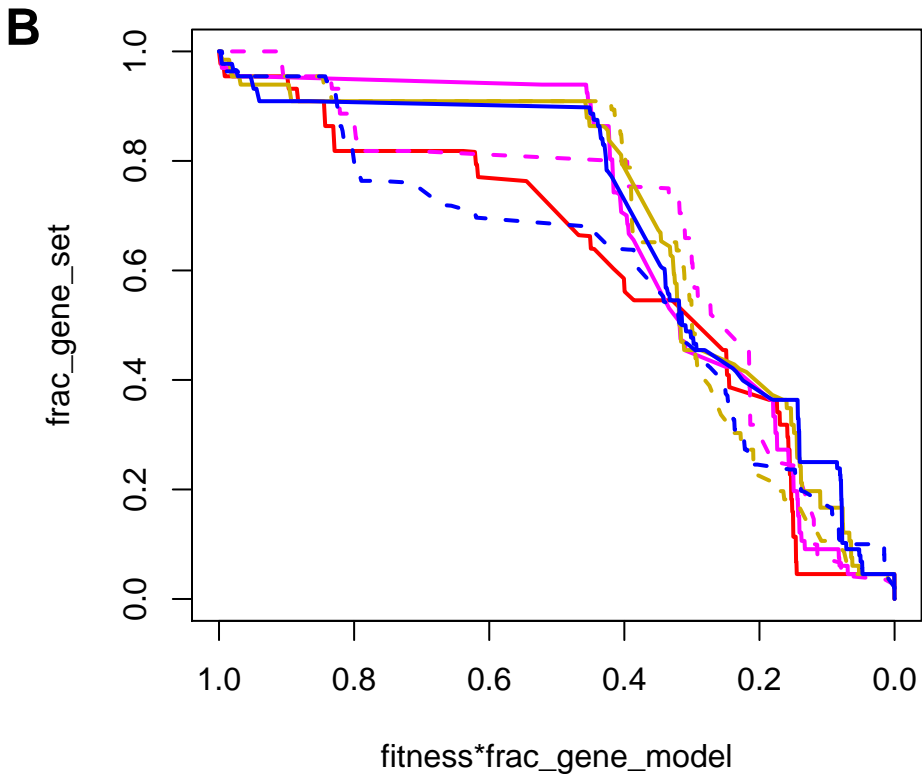
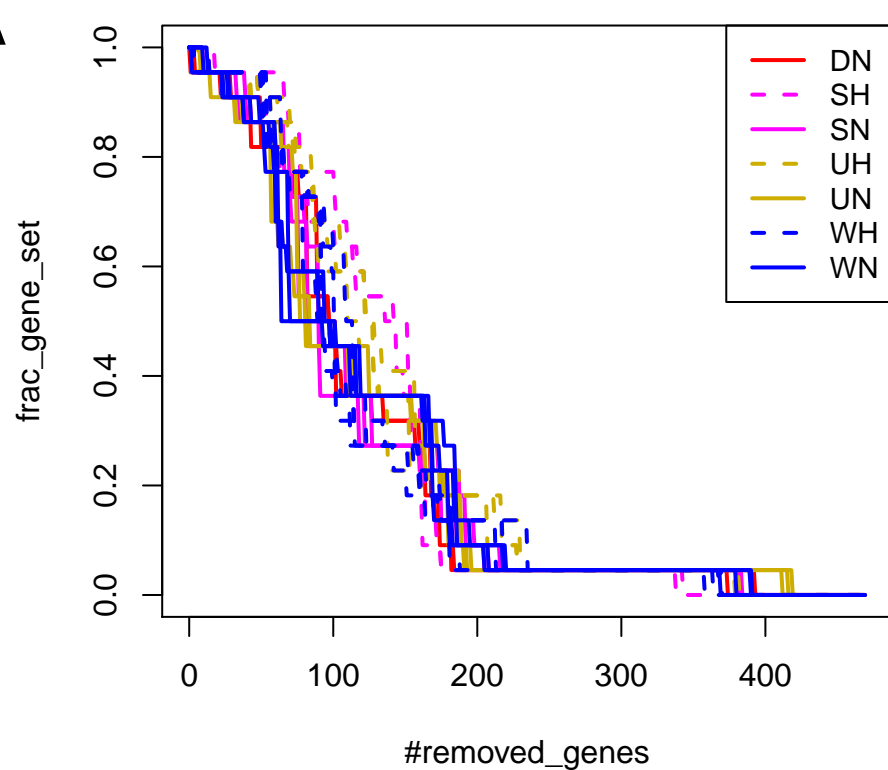
GO:0046131, pyrimidine ribonucleoside mp

$E = 0.12$, $p\text{-val} = 0.077$



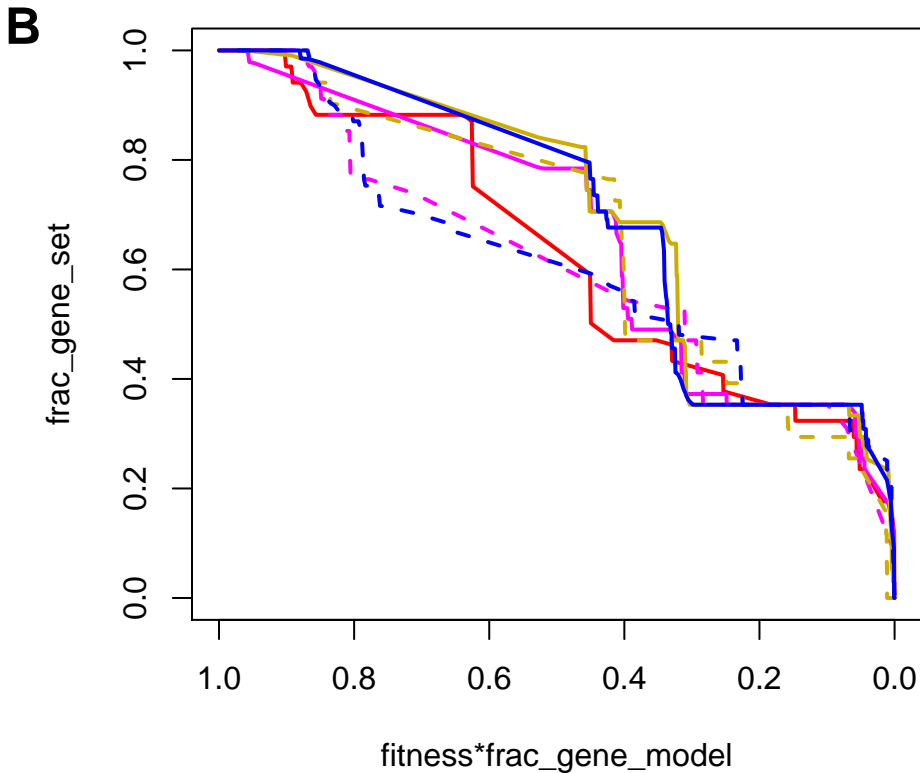
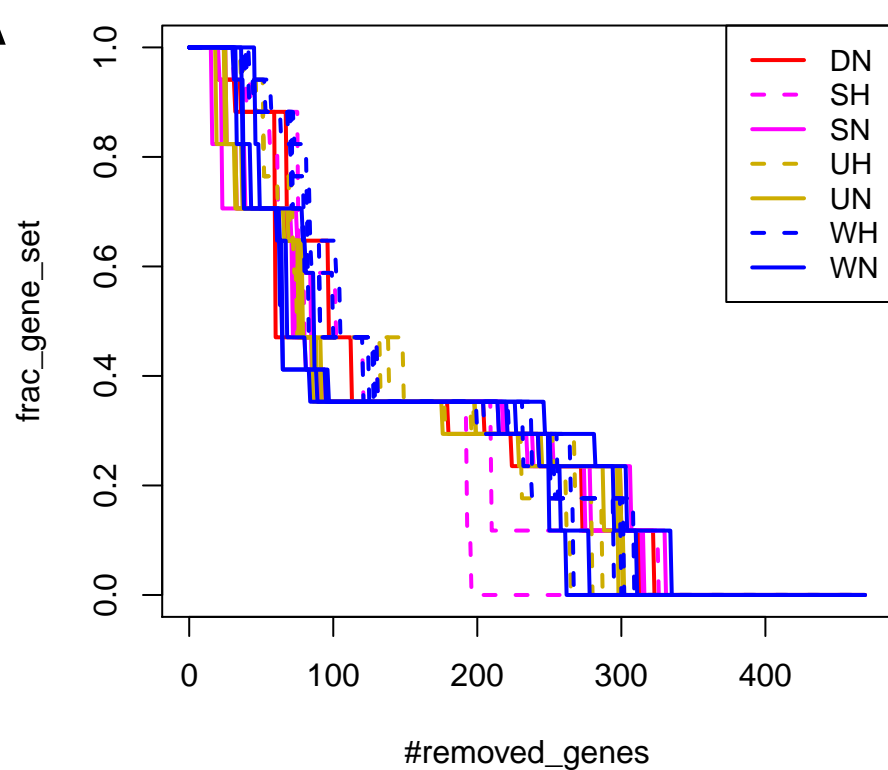
GO:0009116, nucleoside mp

E = 0.11, p-val = 0.12



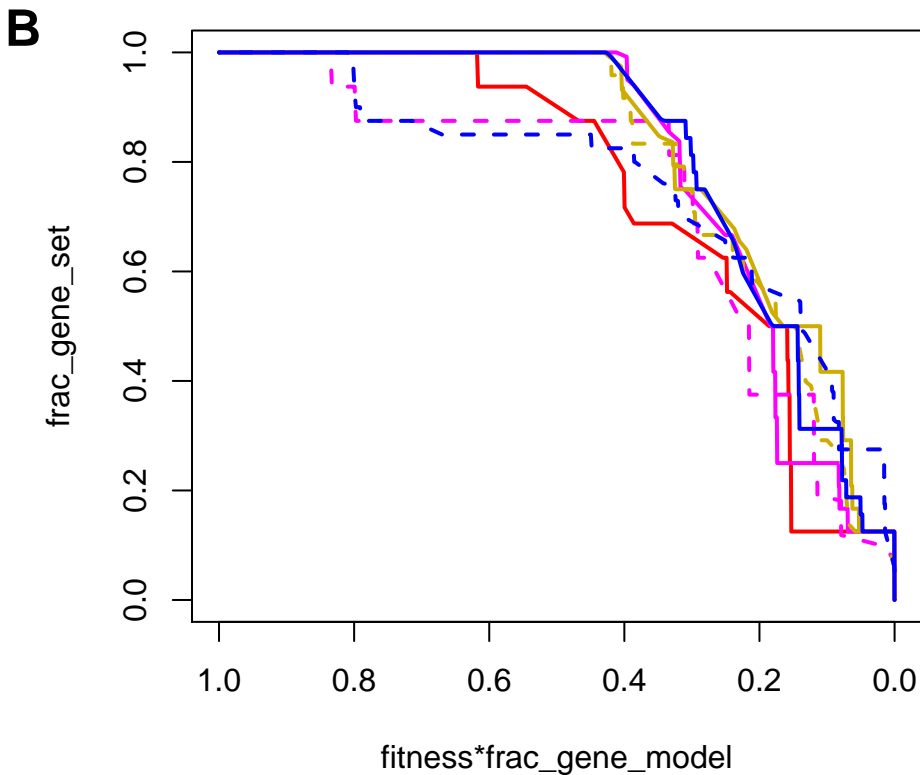
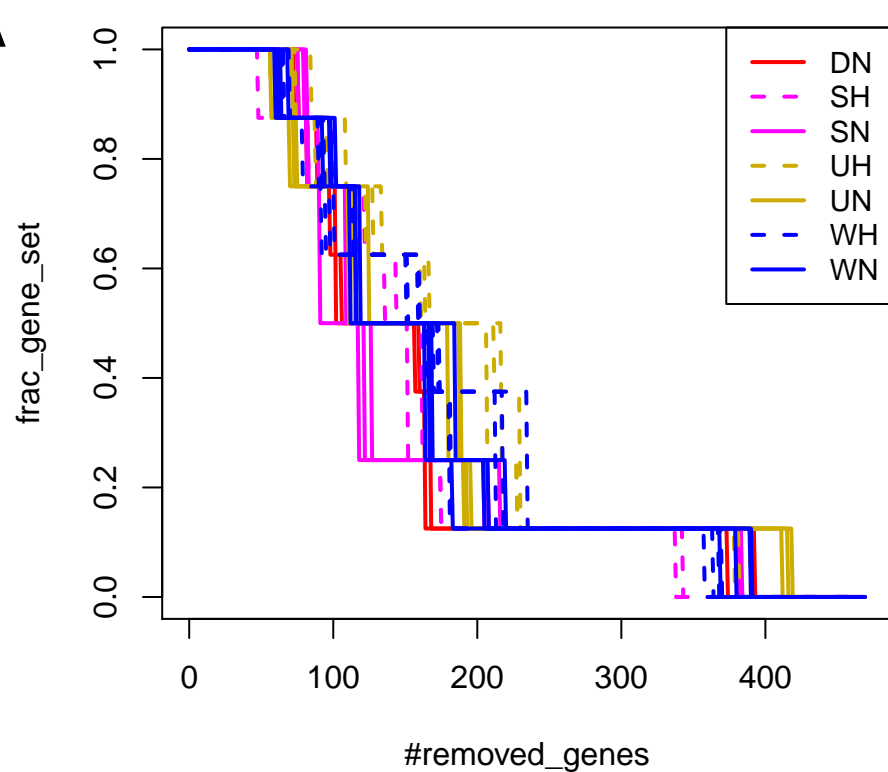
GO:0006575, cellular modified aa mp

$E = 0.11$, $p\text{-val} = 0.082$



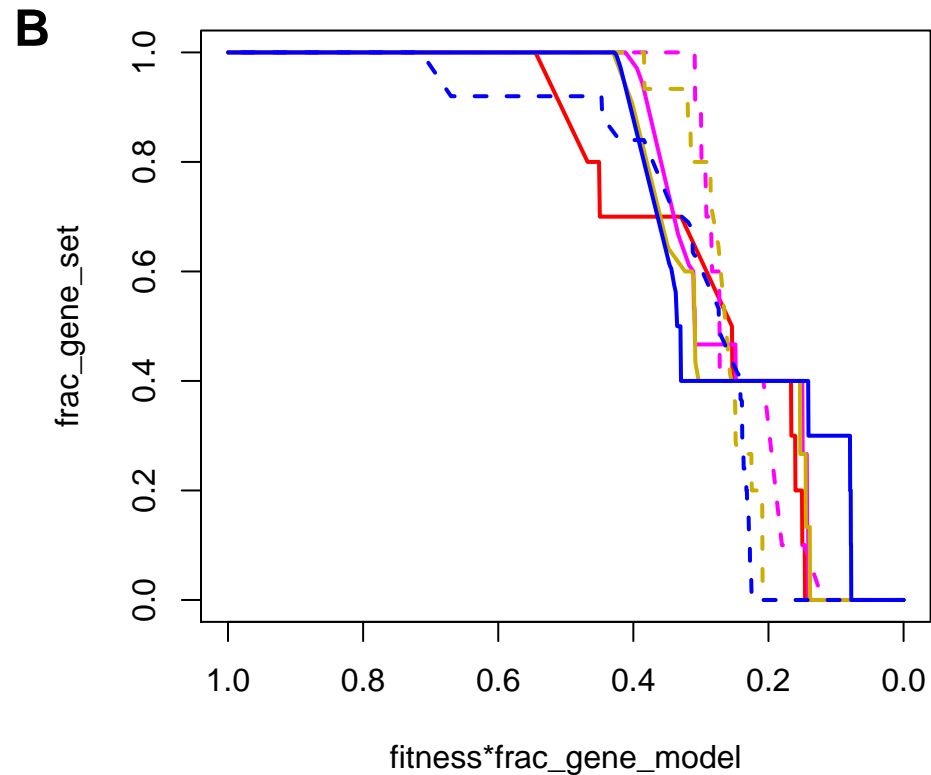
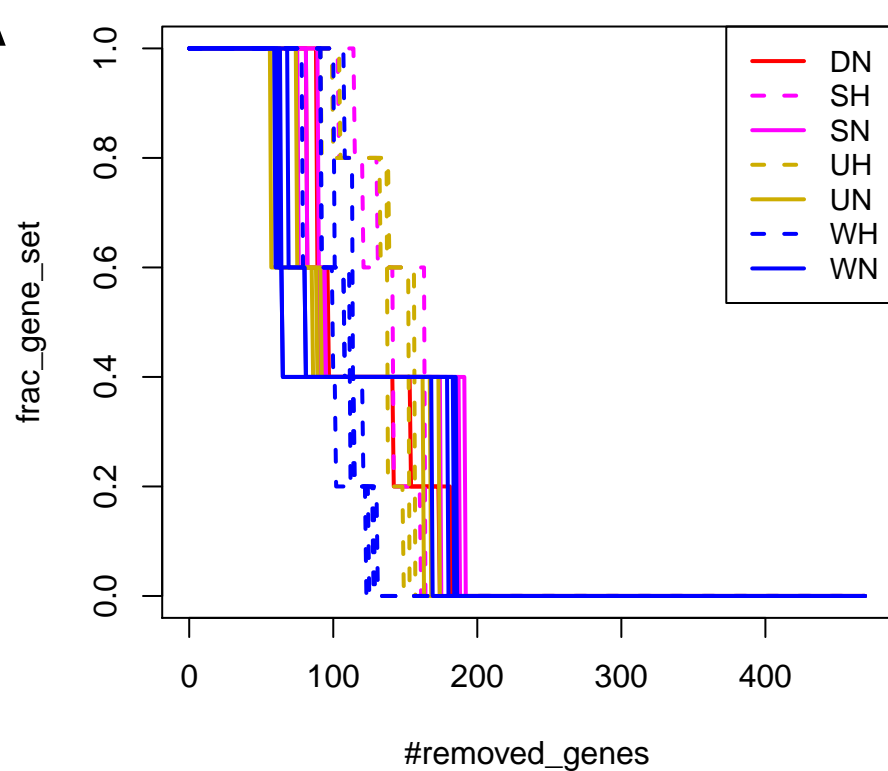
GO:0009218, pyrimidine ribonucleotide mp

E = 0.1, p-val = 0.075



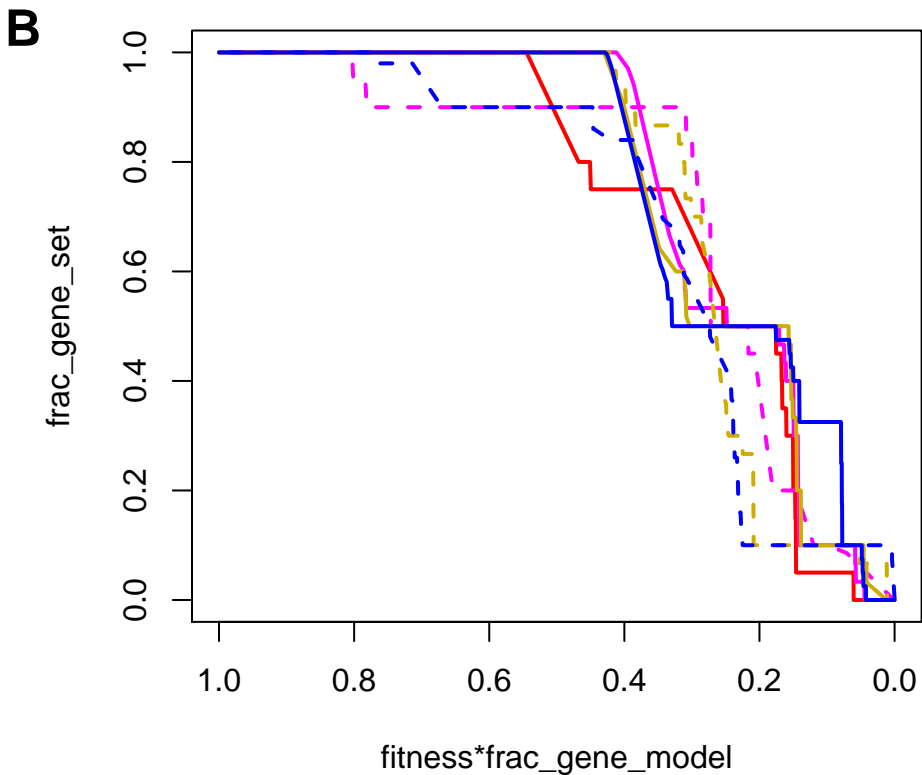
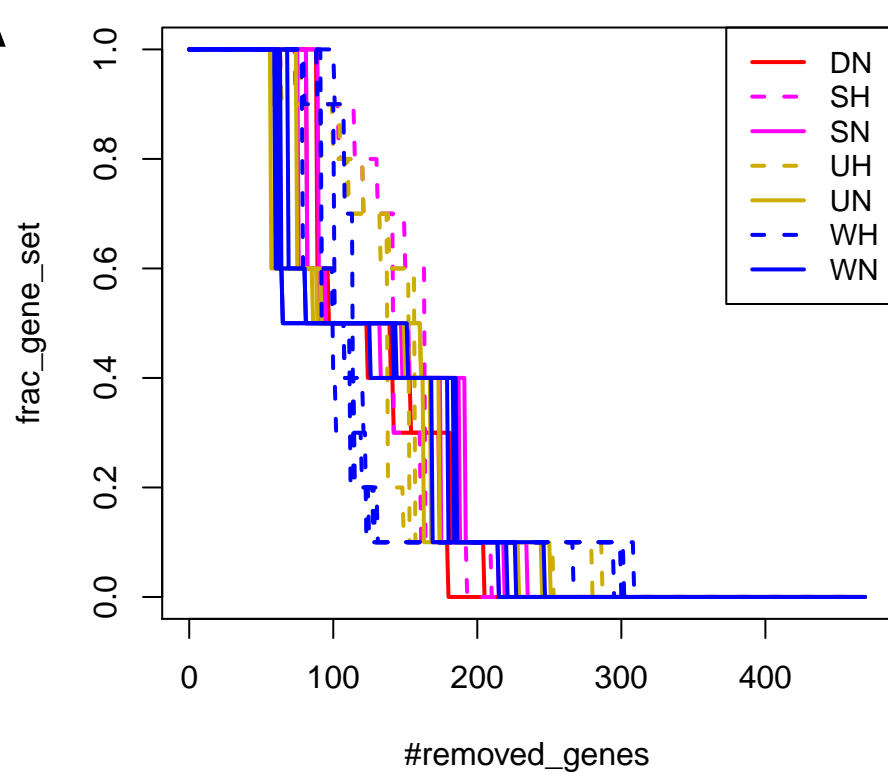
GO:0046084, adenine bp

E = 0.1, p-val = 0.54



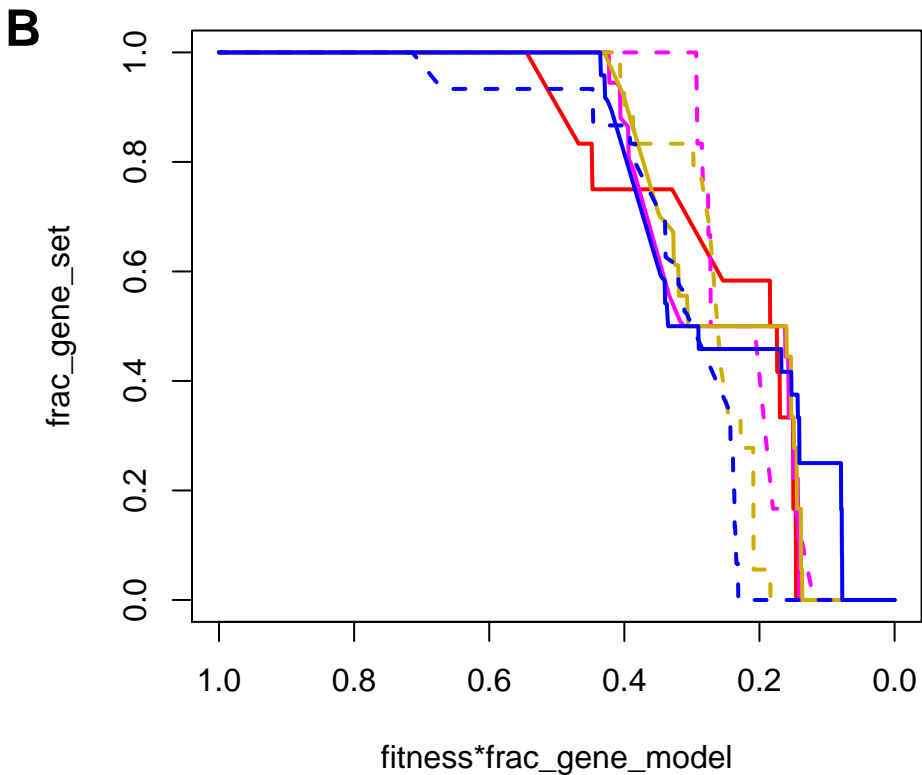
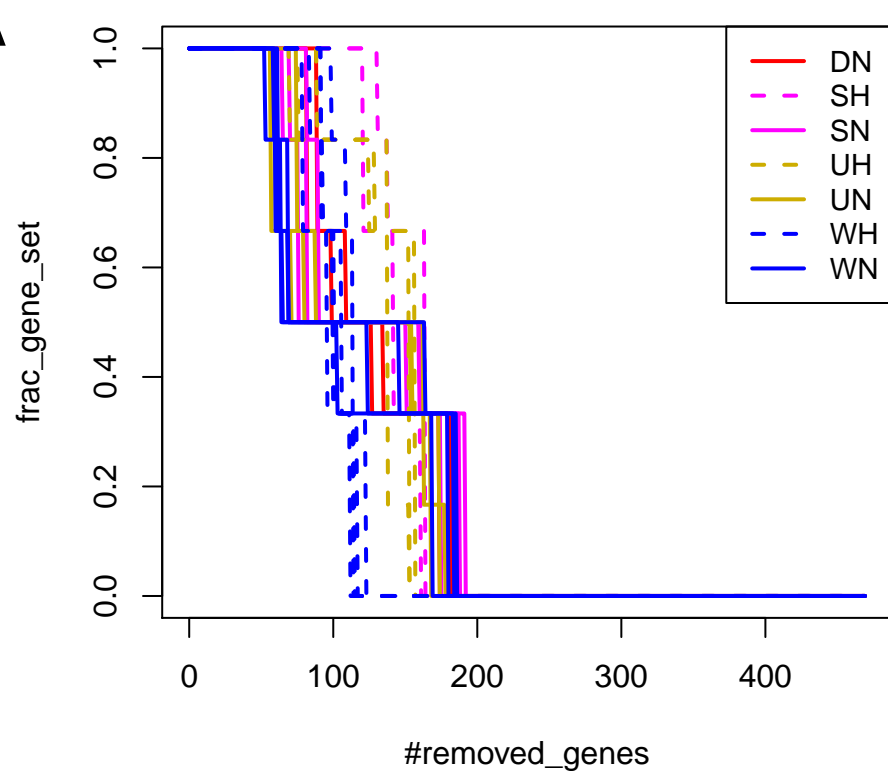
GO:0009113, purine nucleobase bp

E = 0.1, p-val = 0.39



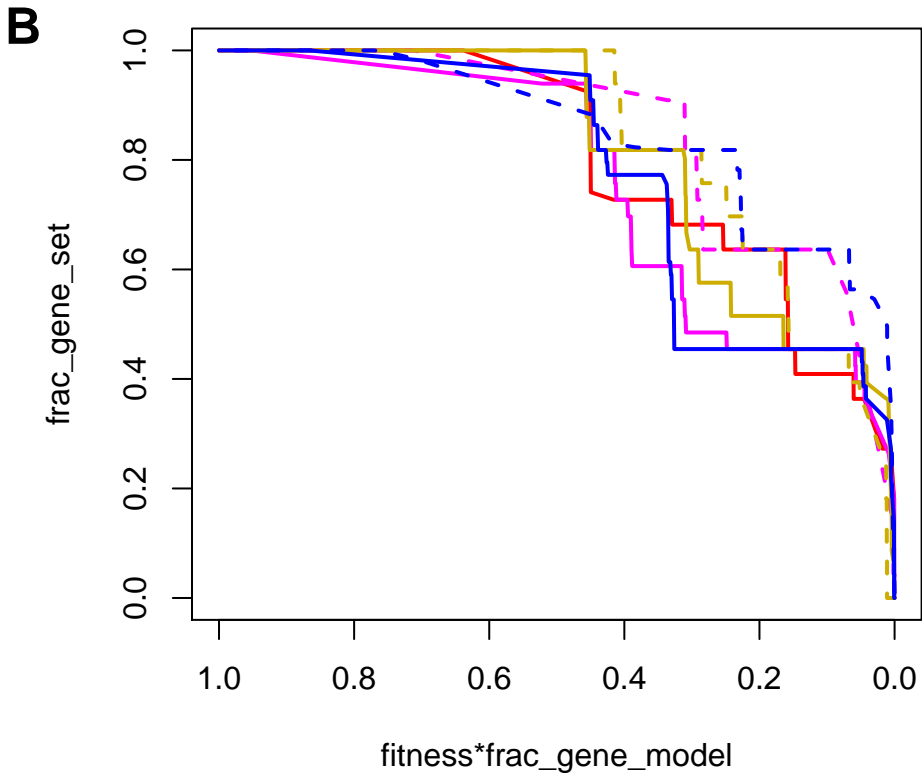
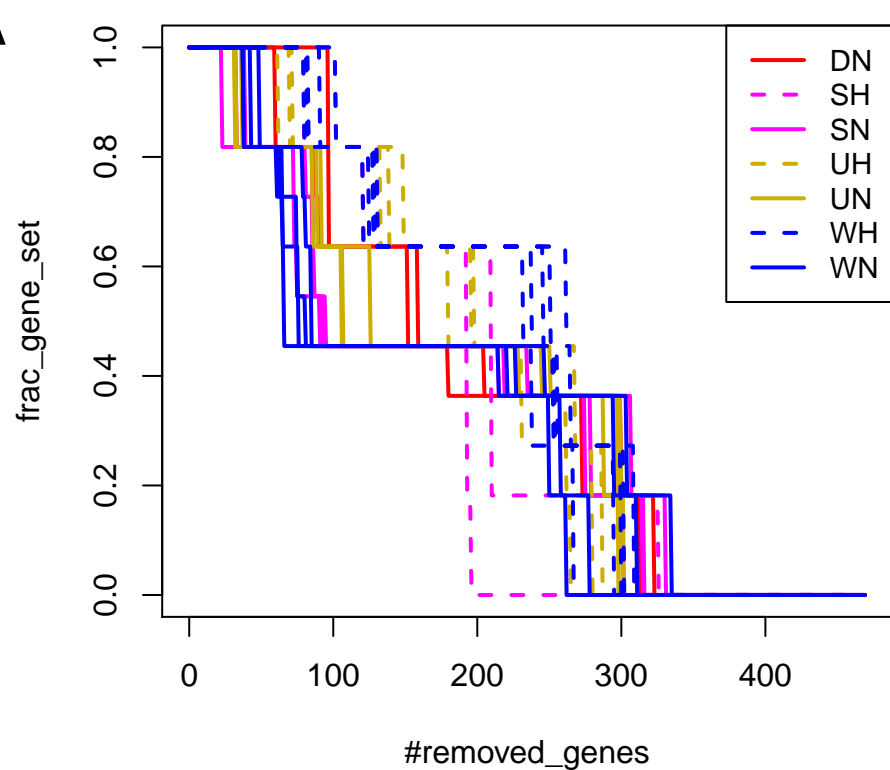
GO:0070814, hydrogen sulfide bp

$E = 0.099$, $p\text{-val} = 0.37$



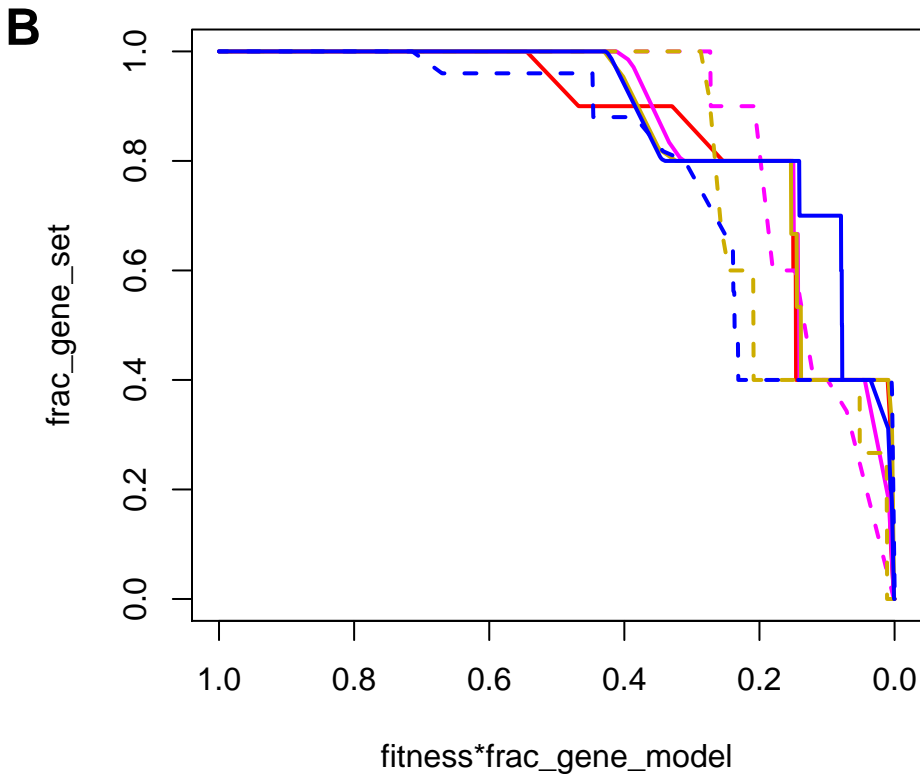
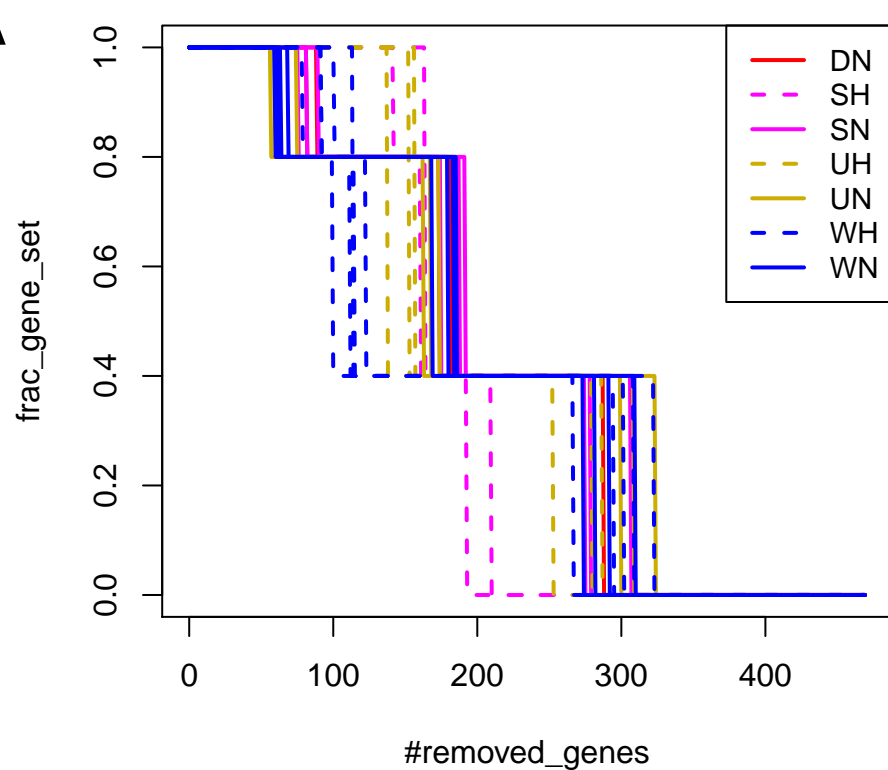
GO:0006730, one-carbon mp

$E = 0.099$, $p\text{-val} = 0.037$



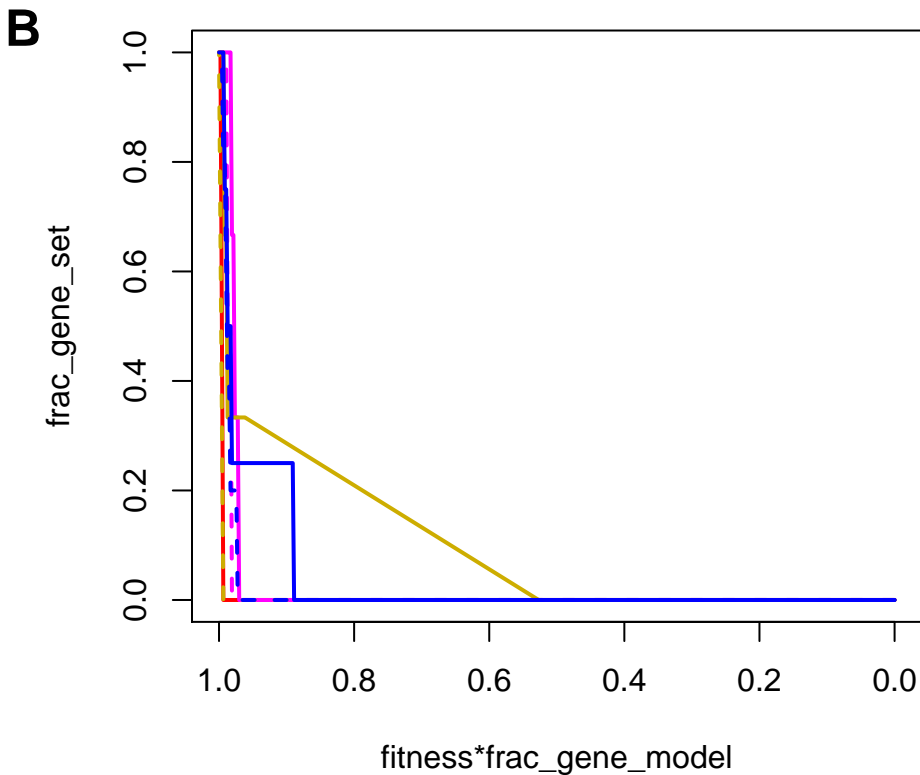
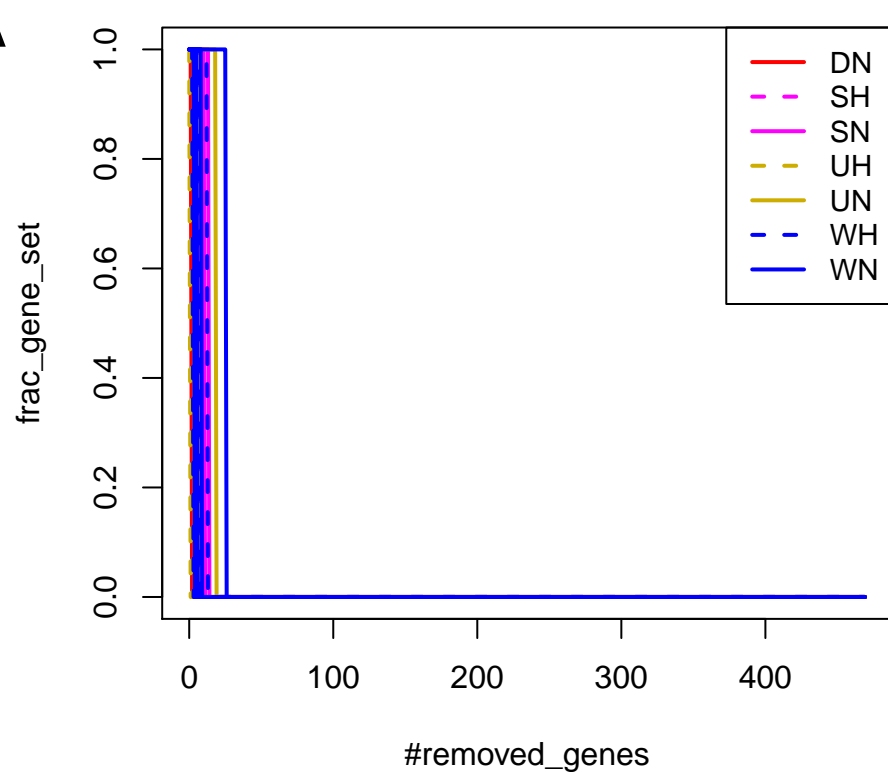
GO:0006106, fumarate mp

E = 0.097, p-val = 0.23



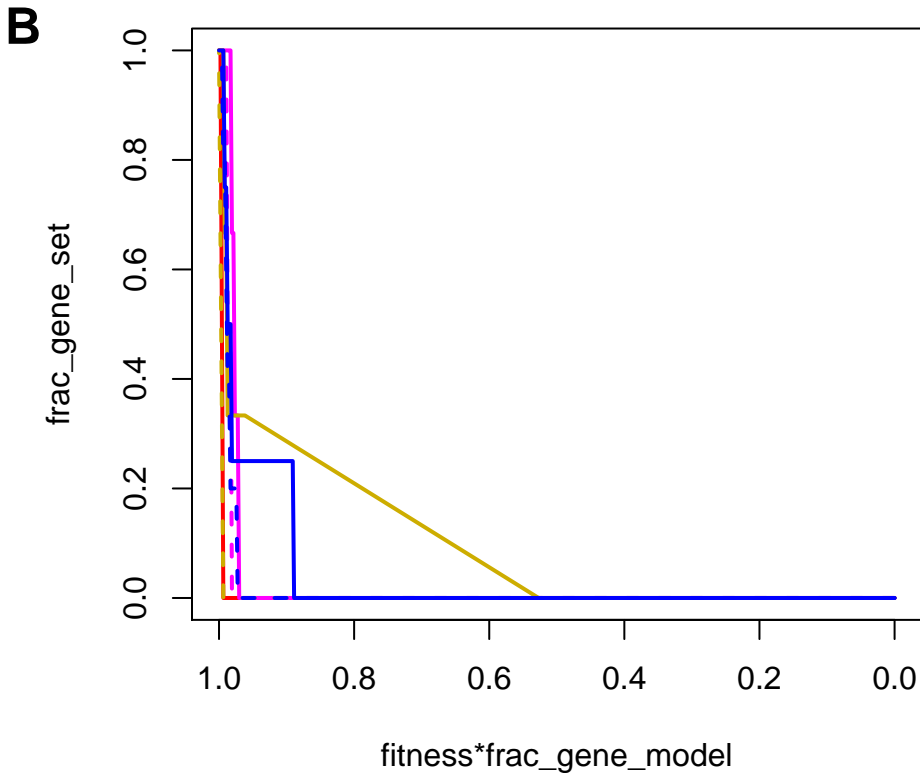
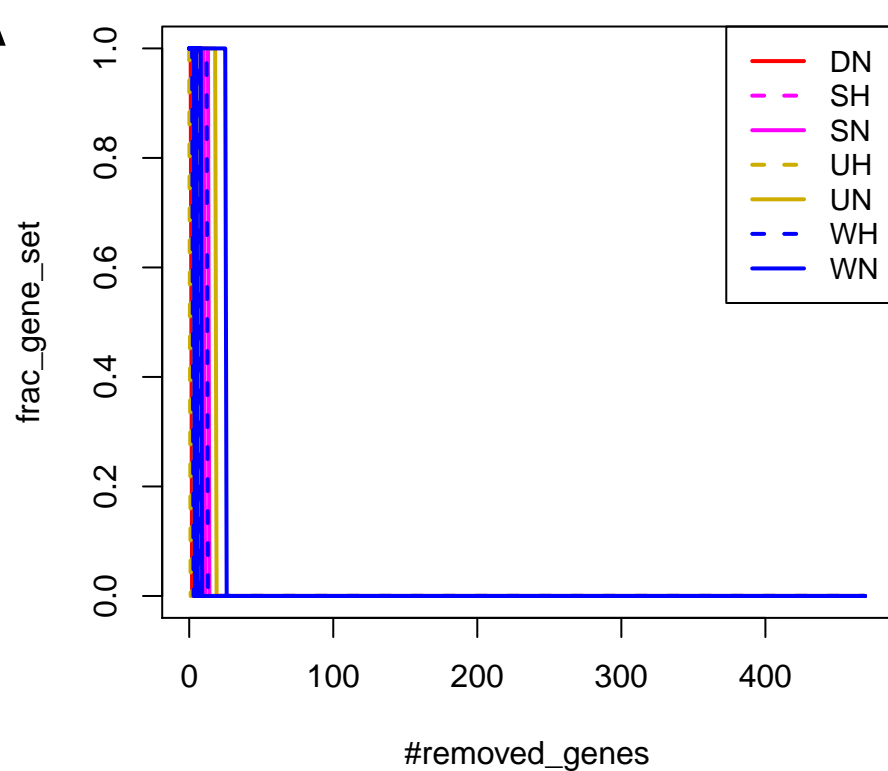
GO:0006122, mitochondrial electron transport, ubiquinol to cytochrome c

$E = 0.088$, $p\text{-val} = 0.37$



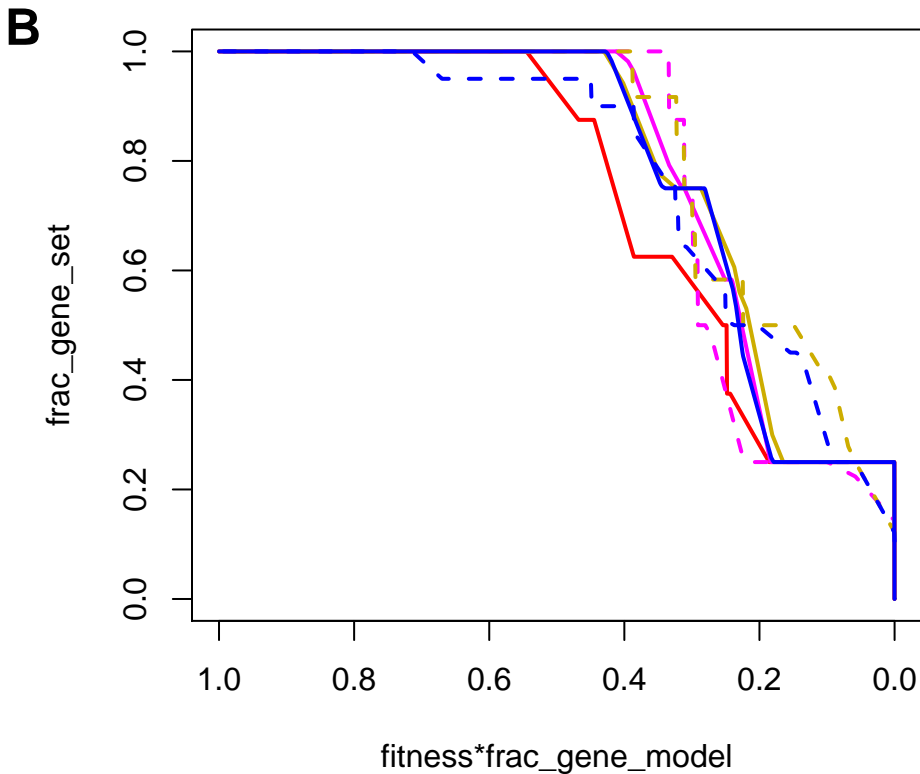
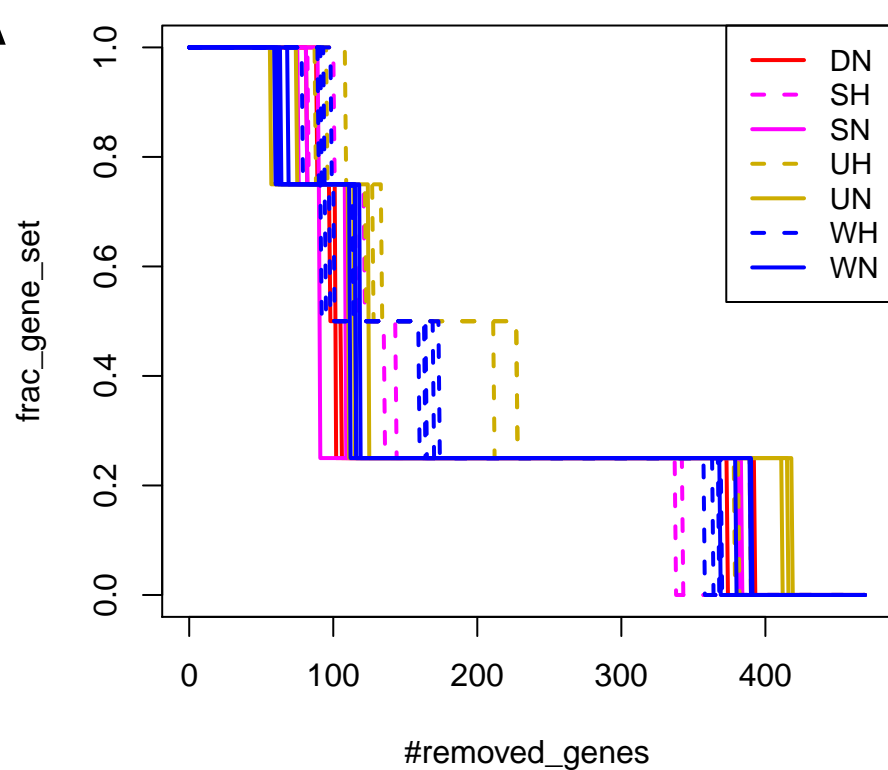
GO:0006123, mitochondrial electron transport, cytochrome c to oxygen

$E = 0.088$, $p\text{-val} = 0.37$



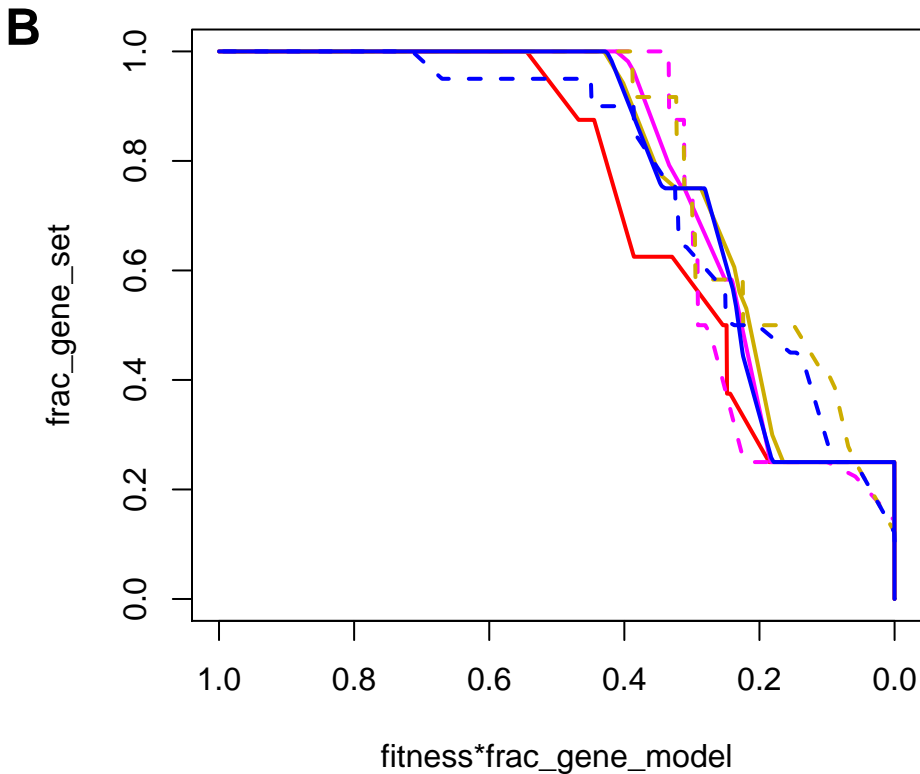
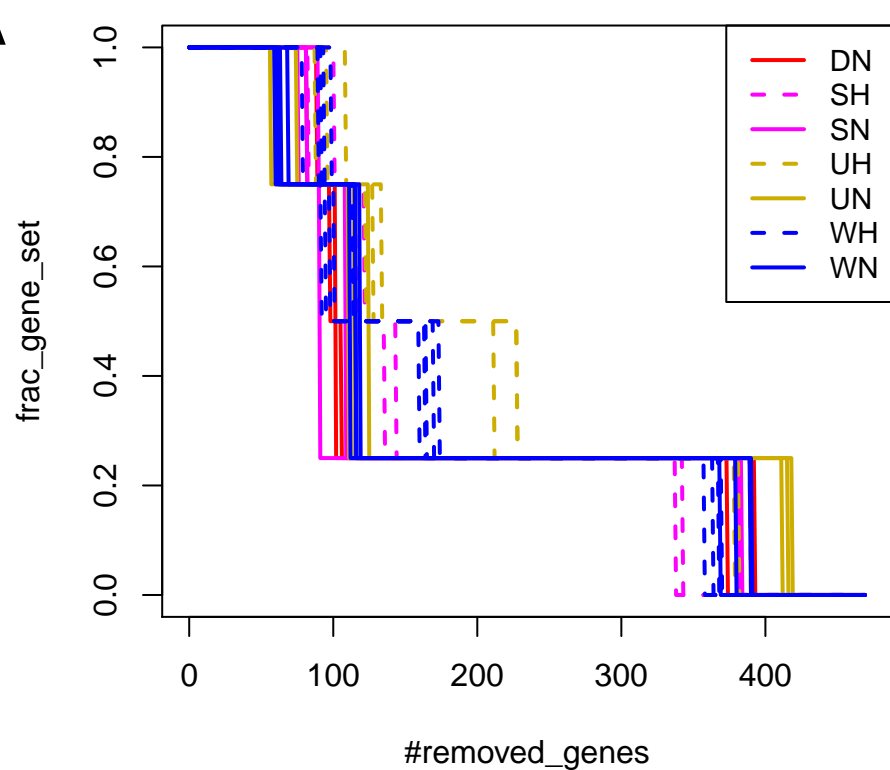
GO:0009220, pyrimidine ribonucleotide bp

E = 0.088, p-val = 0.2



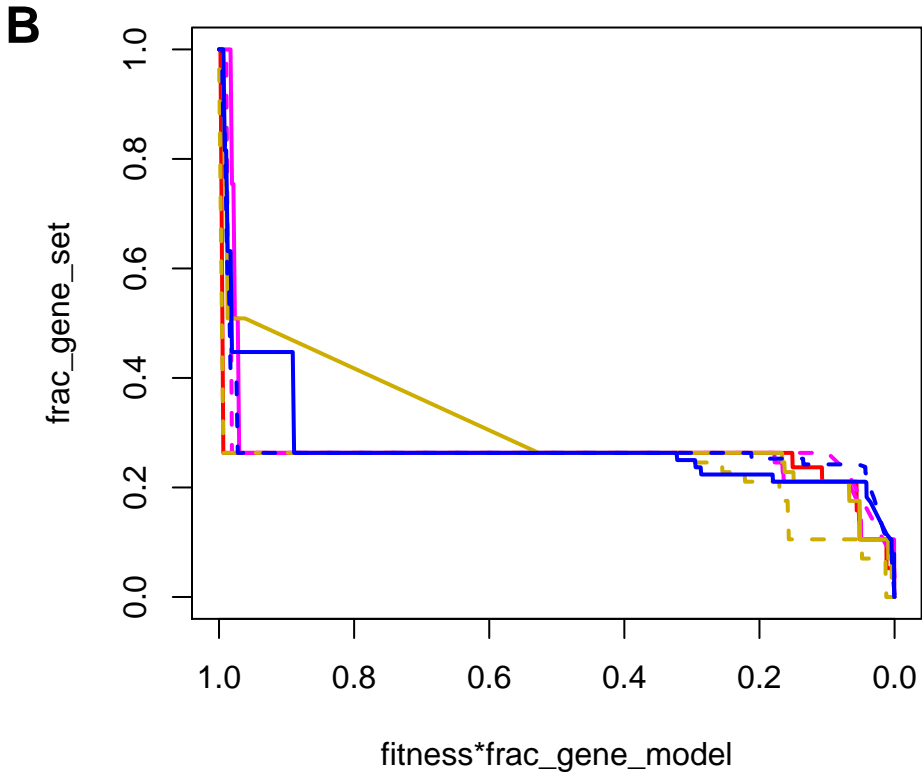
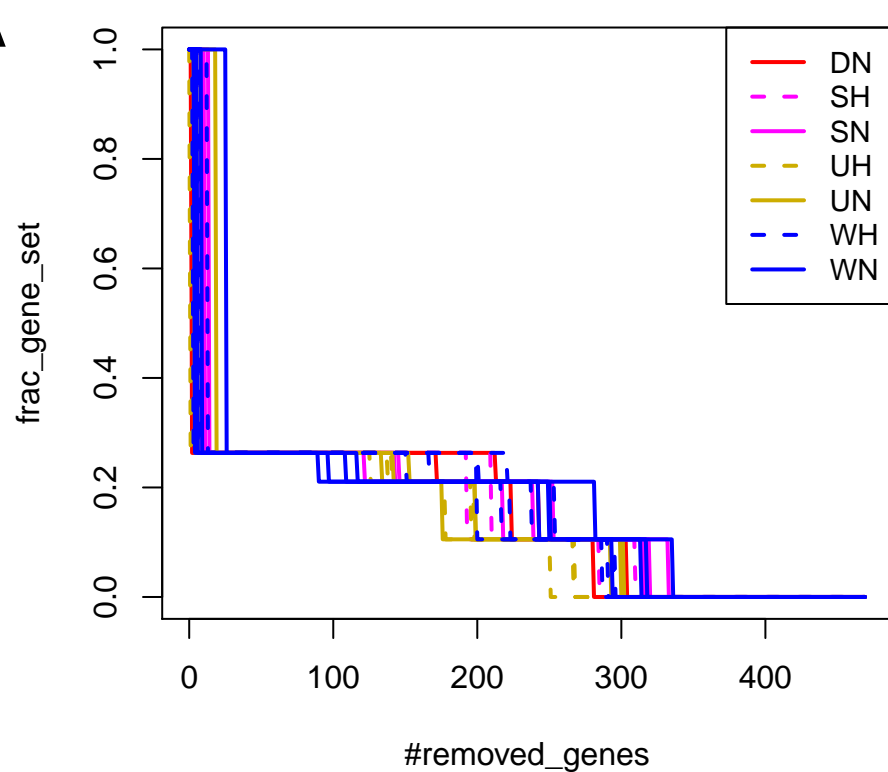
GO:0046132, pyrimidine ribonucleoside bp

E = 0.088, p-val = 0.21



GO:0022900, electron transport chain

$E = 0.083$, $p\text{-val} = 0.25$



GO:0009060, aerobic respiration

E = 0.059, p-val = 0.3

