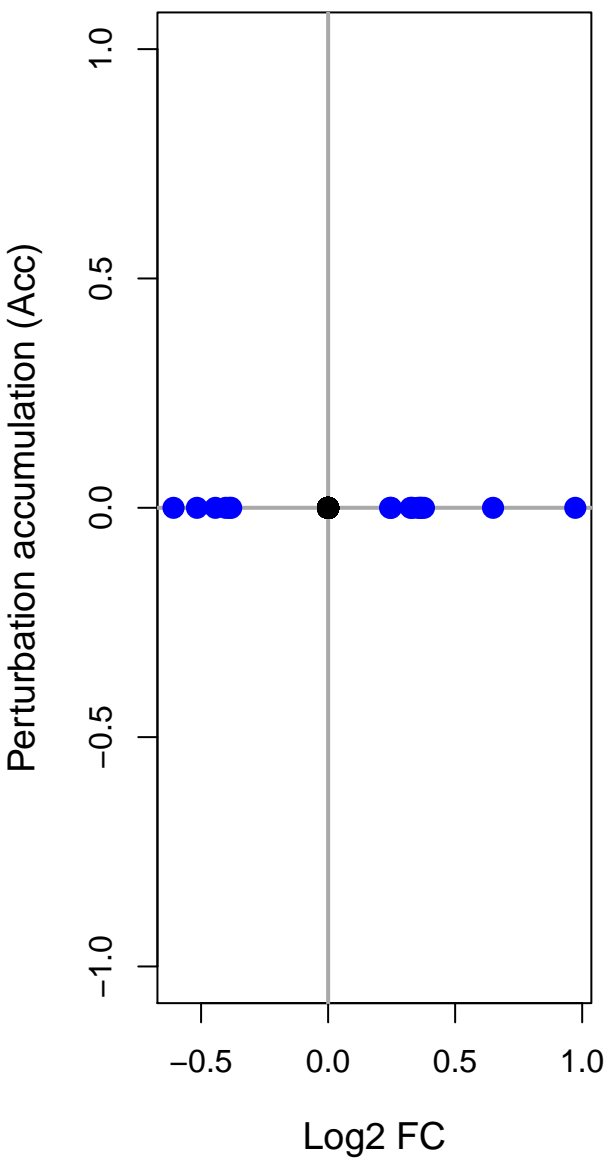
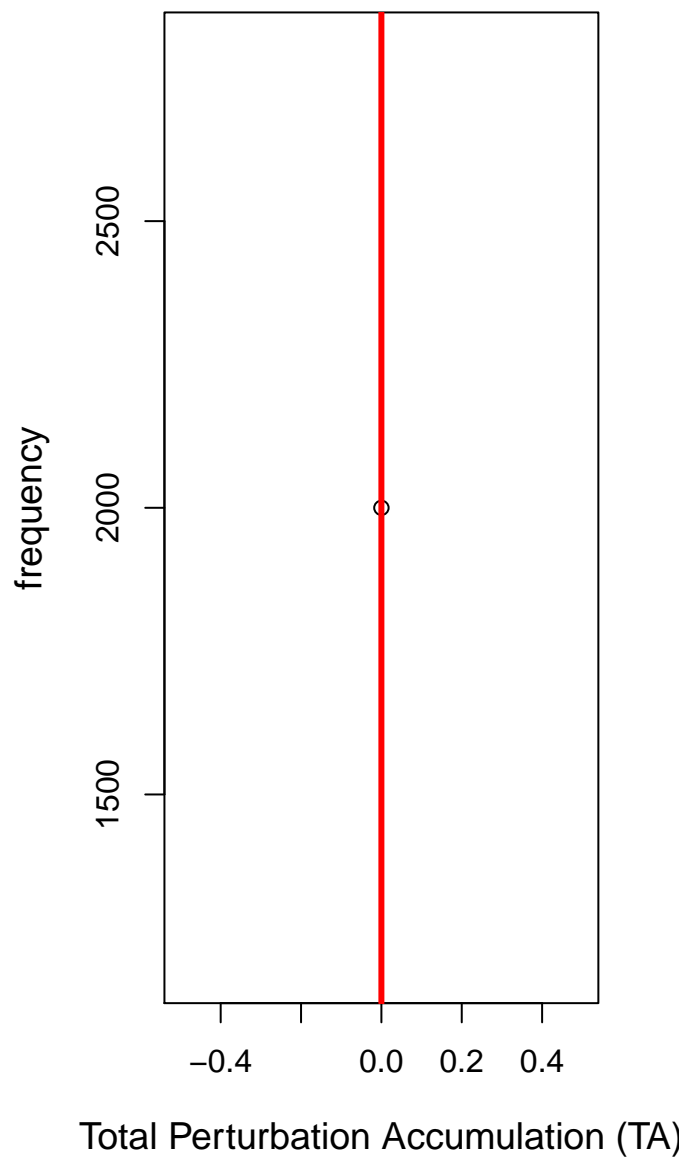


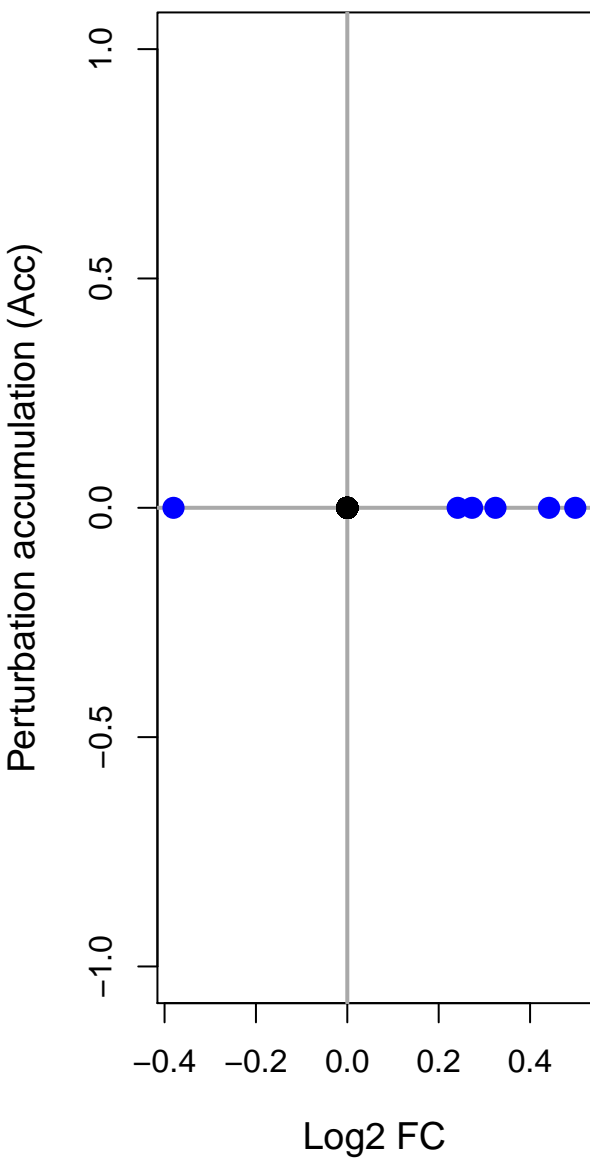
pathway ID=03013



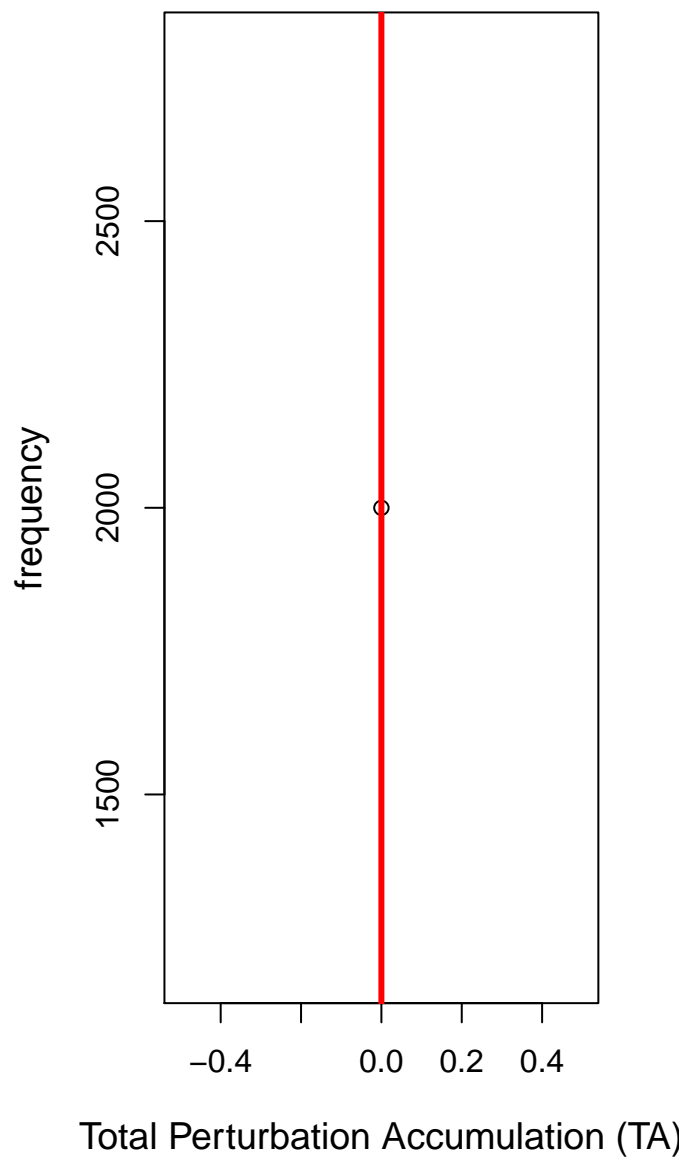
pathway ID=03013 P PERT=NA



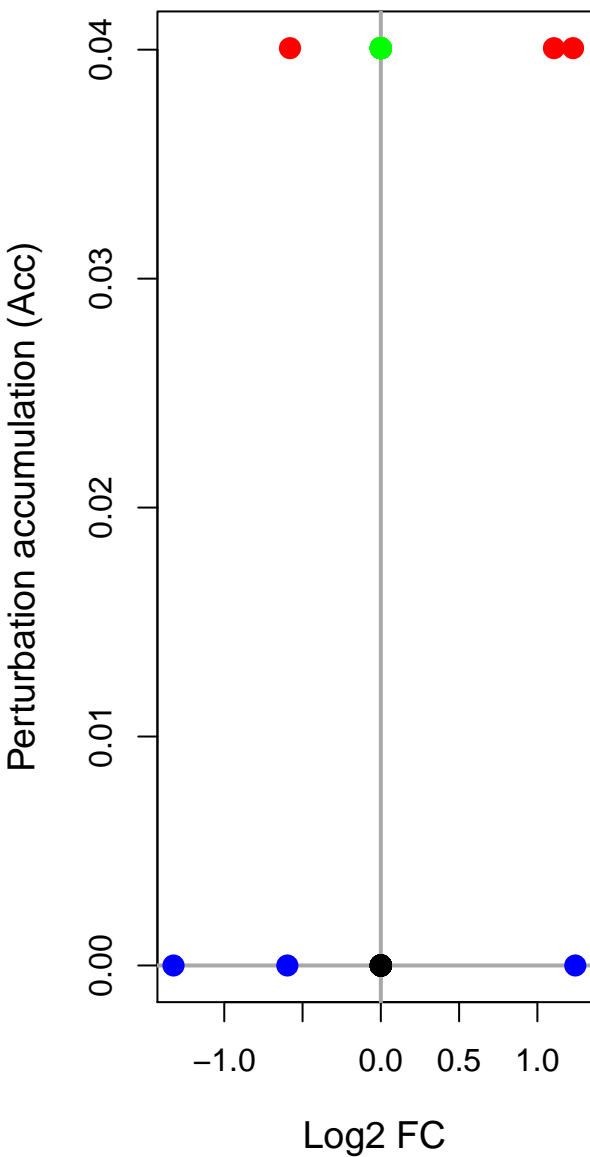
pathway ID=03018



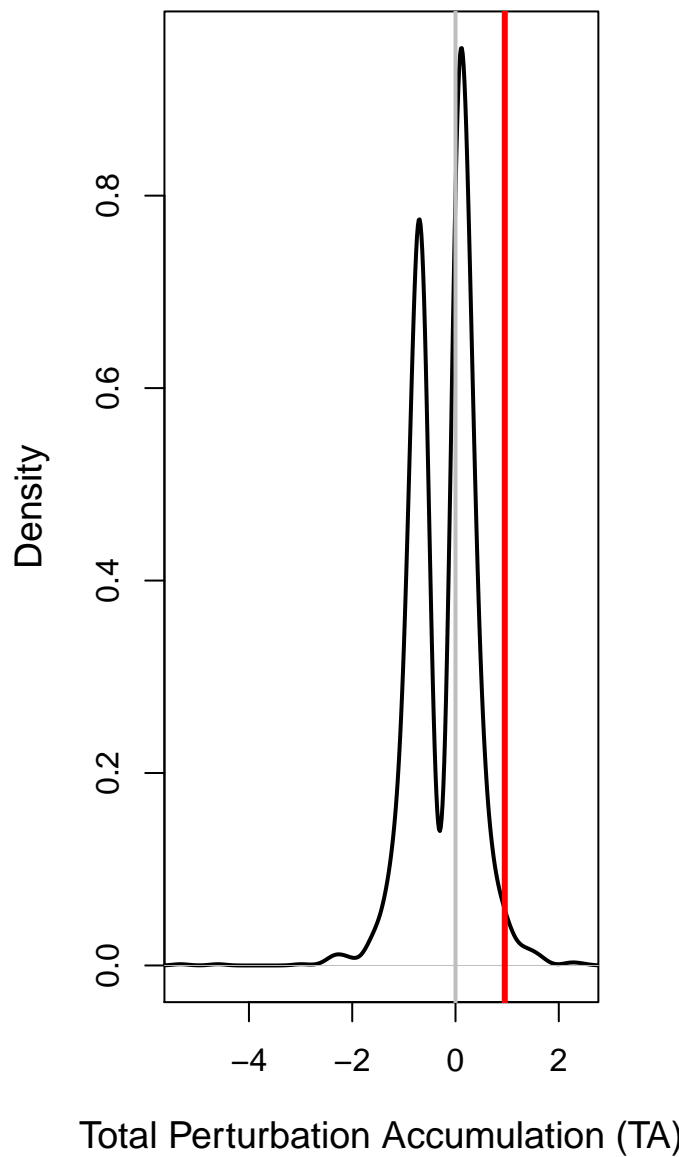
pathway ID=03018 P PERT=NA



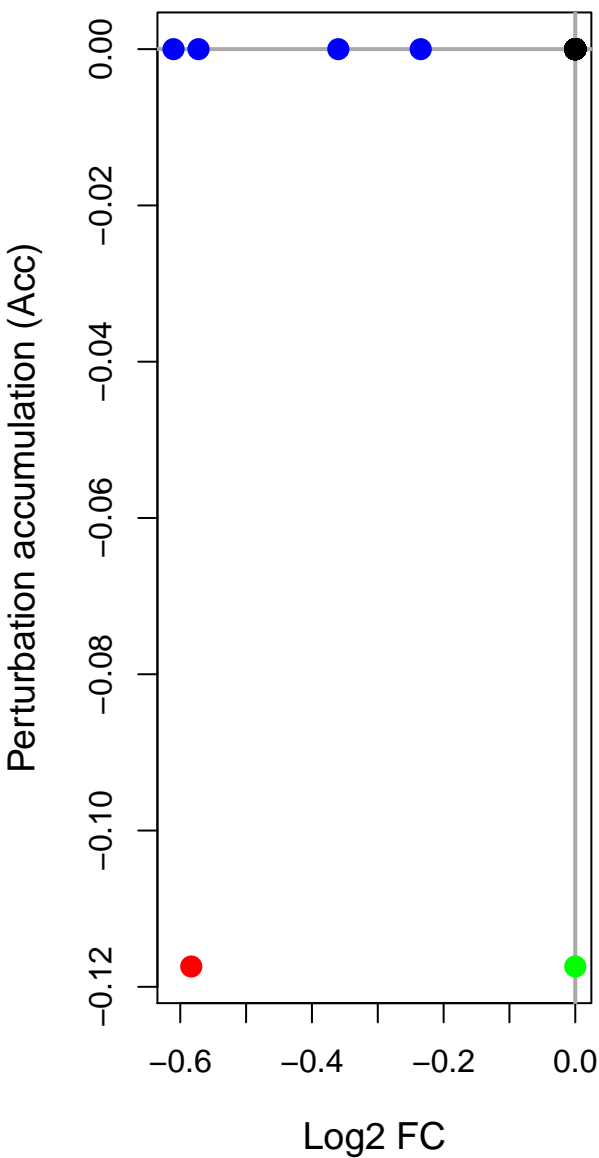
pathway ID=03320



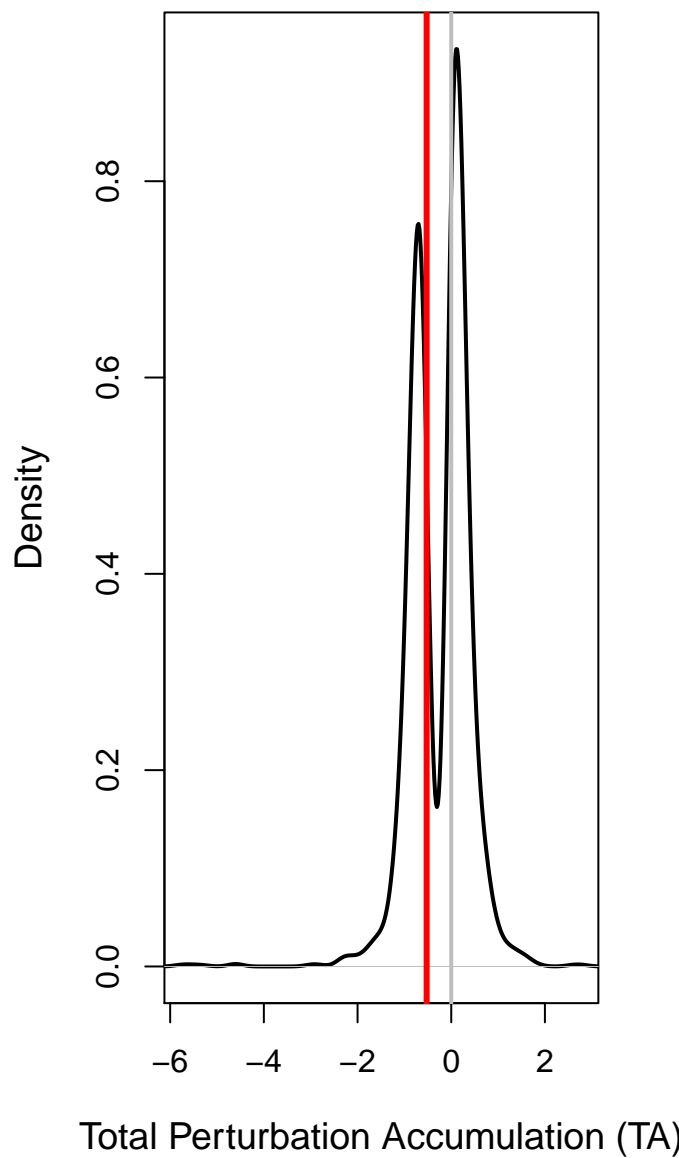
pathway ID=03320 P PERT=0.038



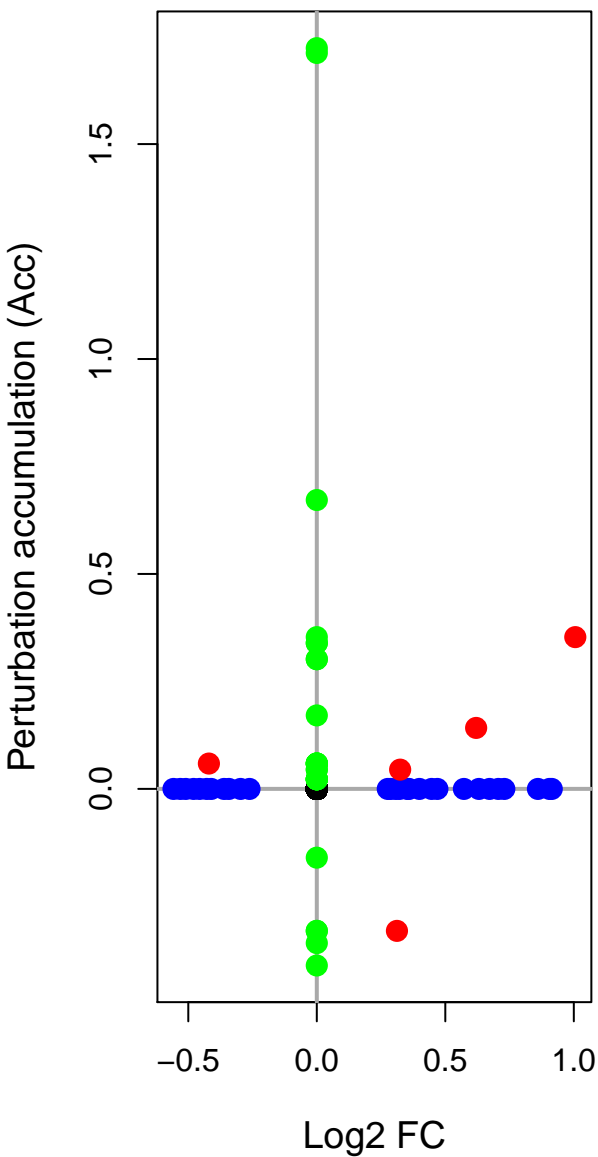
pathway ID=03460



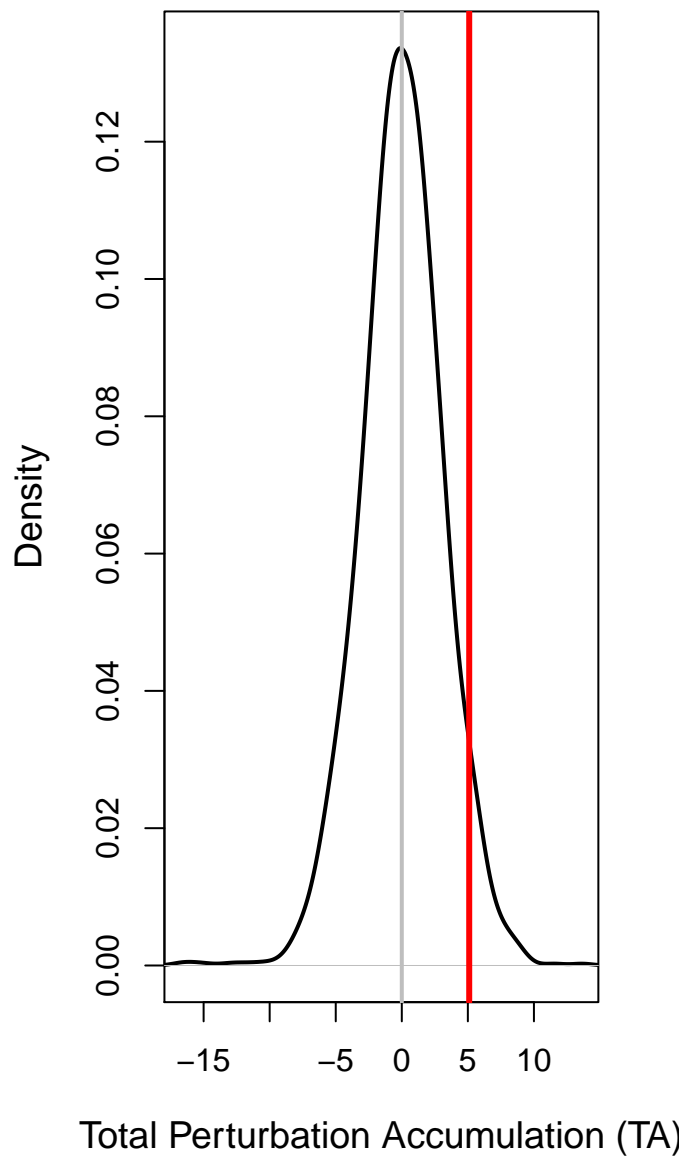
pathway ID=03460 P PERT=0.879



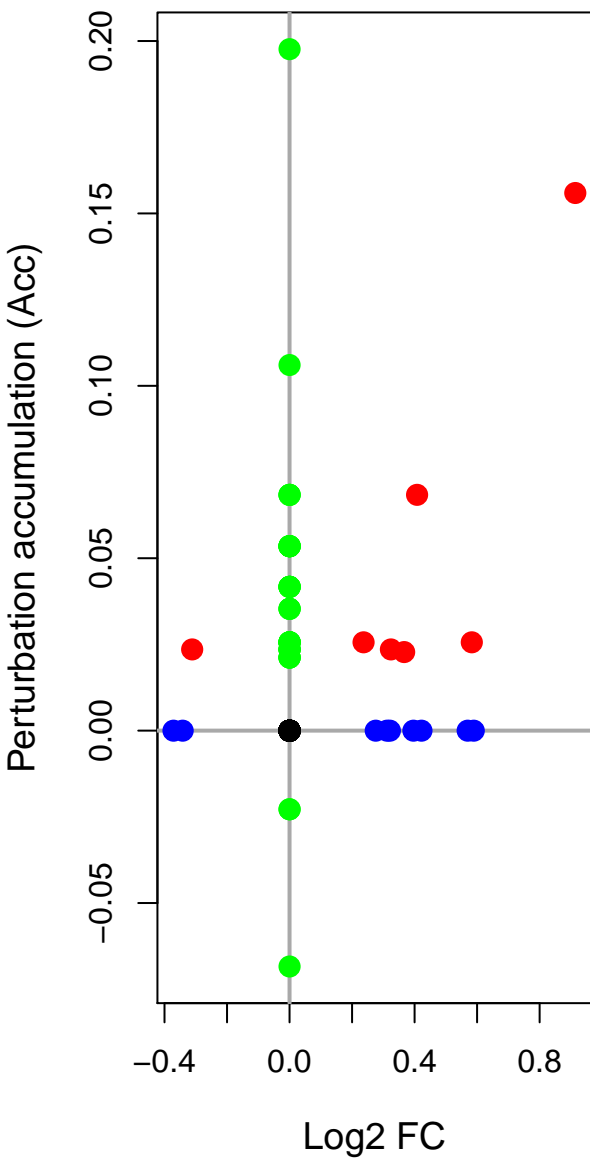
pathway ID=04010



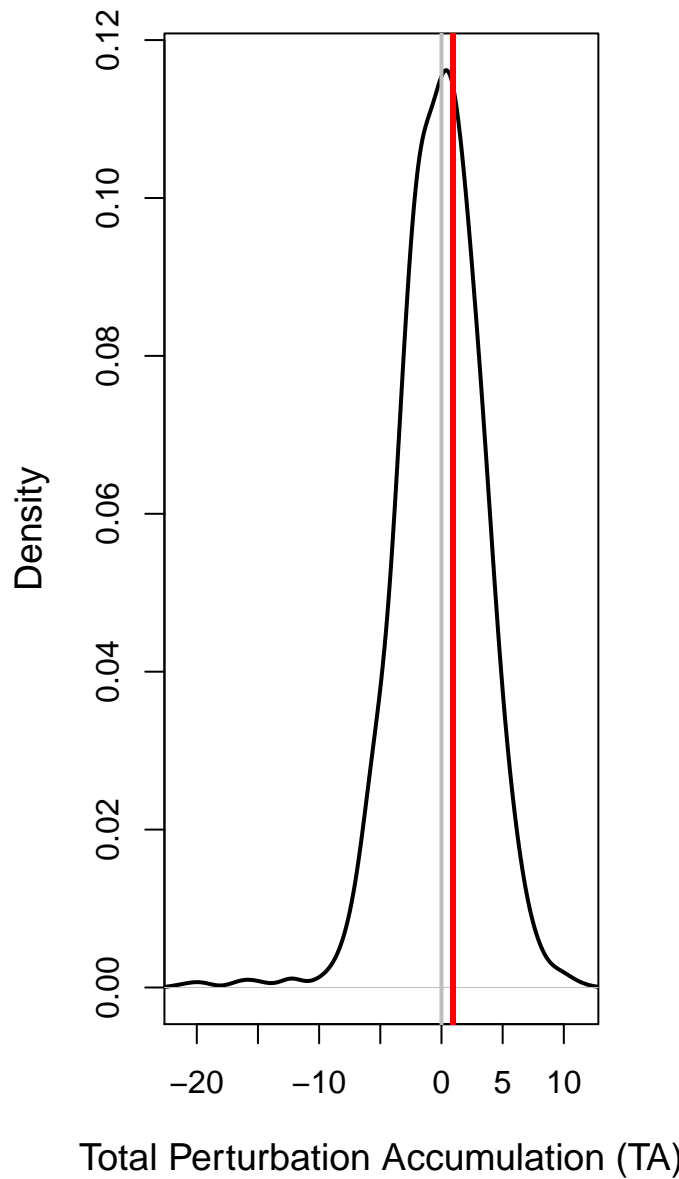
pathway ID=04010 P PERT=0.102



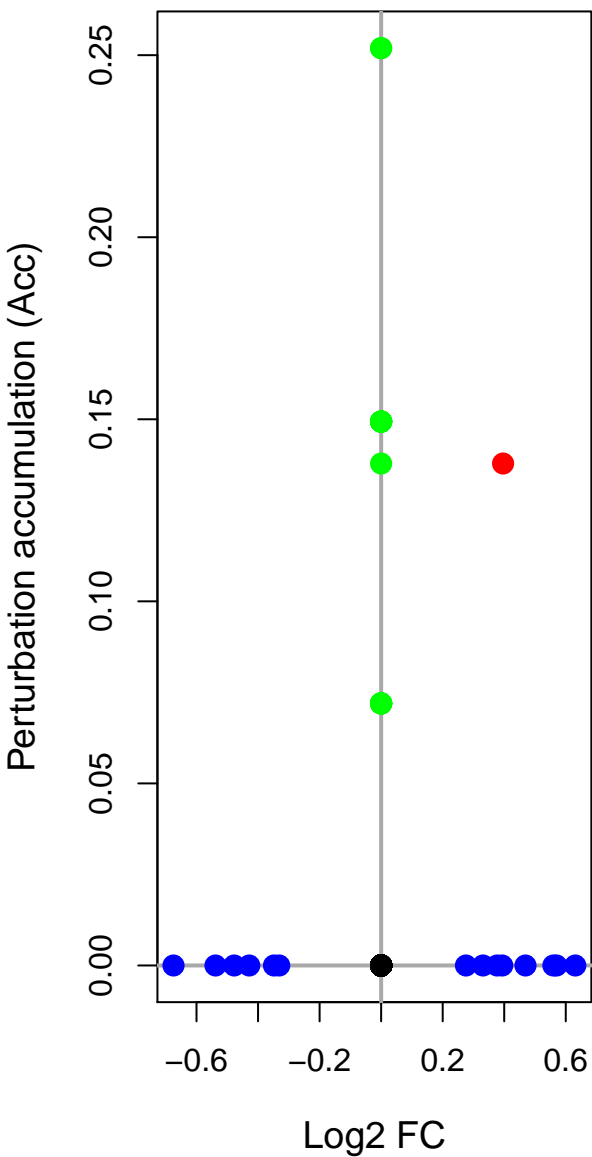
pathway ID=04012



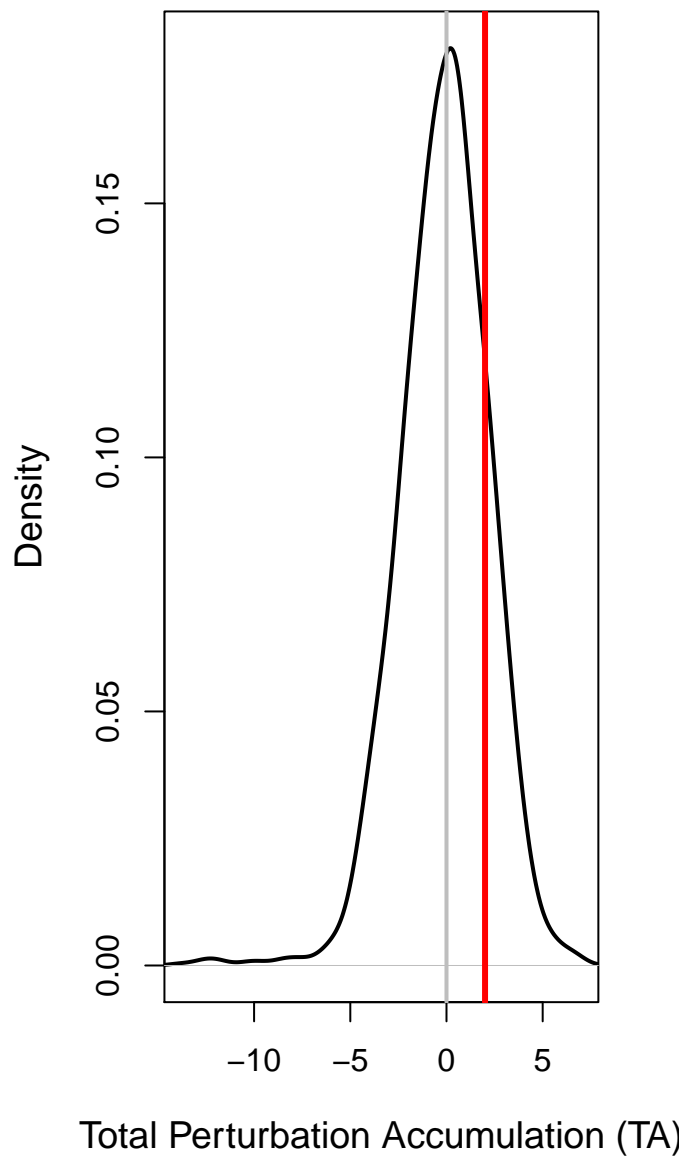
pathway ID=04012 P PERT=0.766



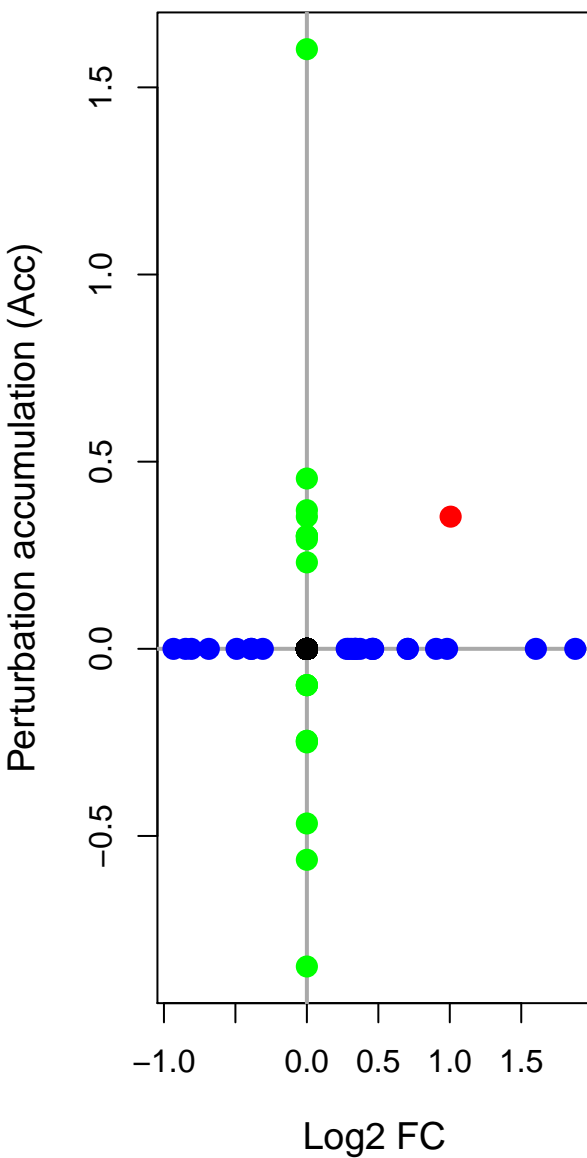
pathway ID=04020



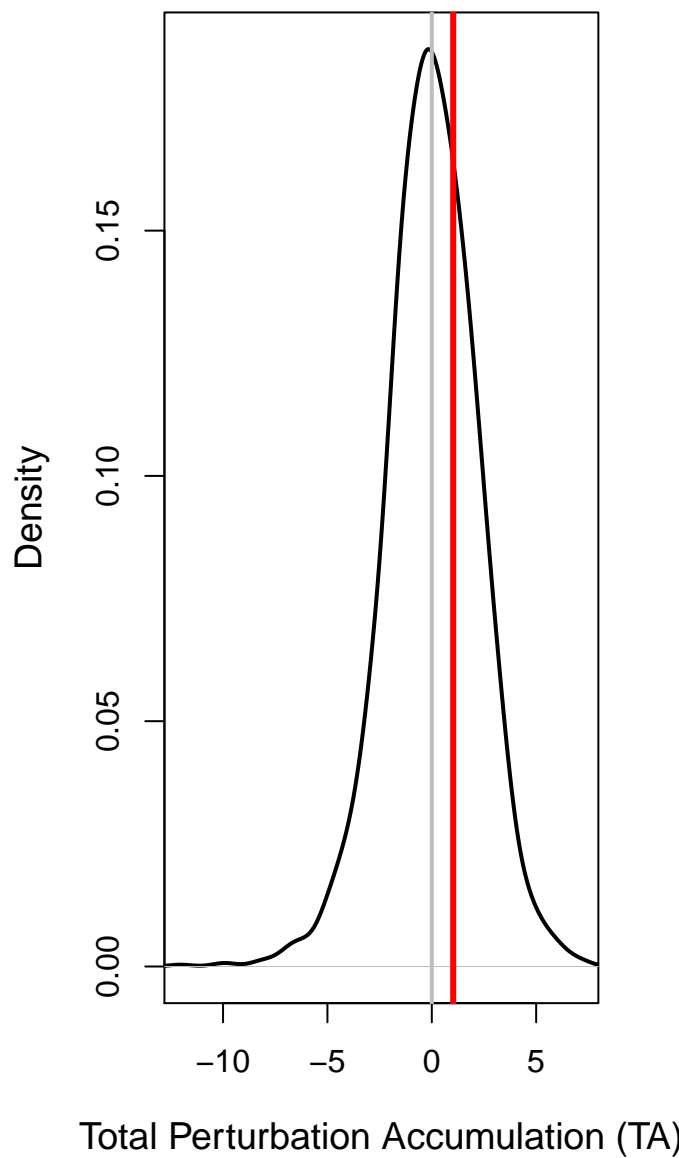
pathway ID=04020 P PERT=0.344



pathway ID=04060

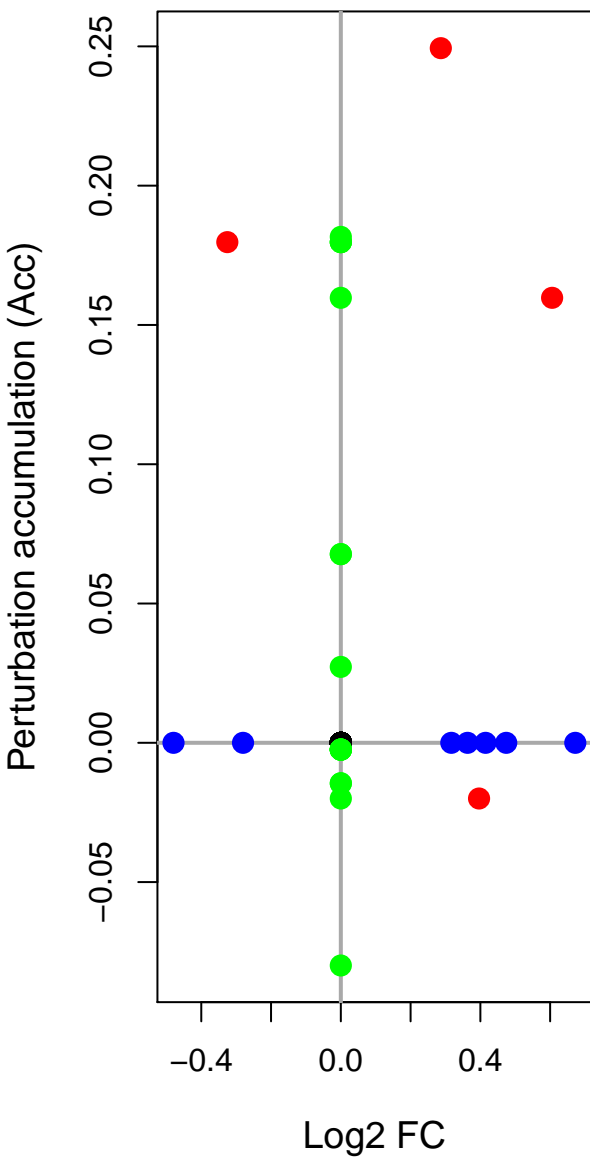


pathway ID=04060 P PERT=0.64

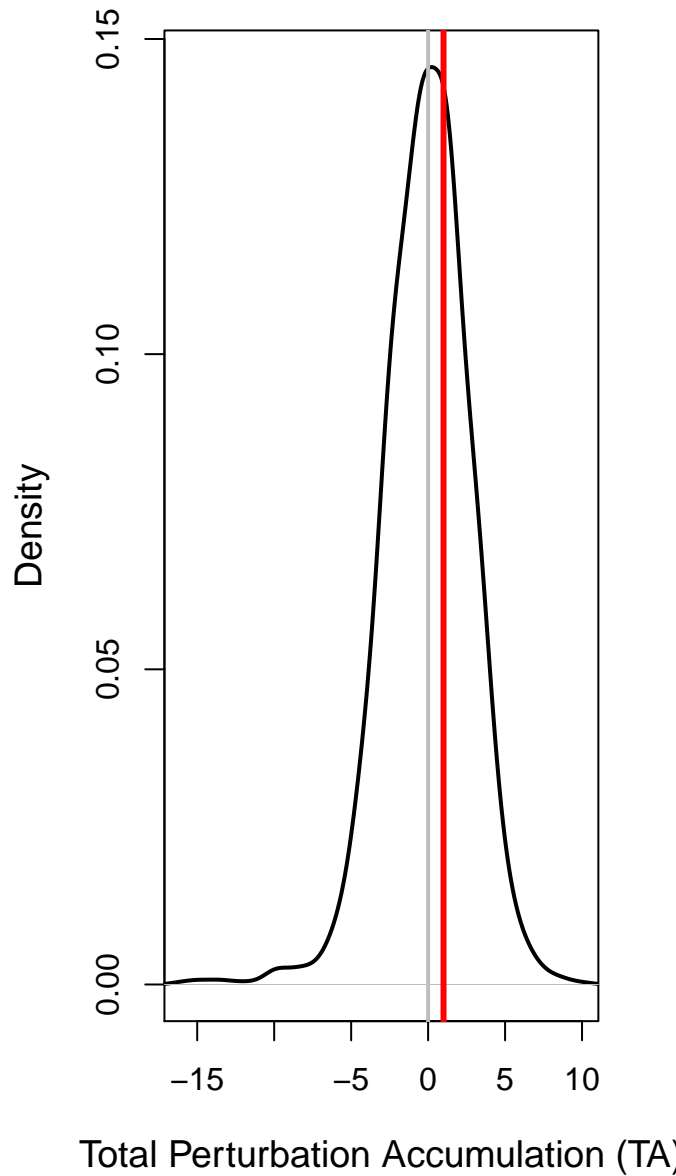


A plot of a normal distribution curve centered at 0. The x-axis ranges from -25 to 25, and the y-axis ranges from 0.00 to 0.07. A vertical gray line is at x=0, and a vertical red line is at x=12. The area under the curve to the right of x=12 is shaded in light red.

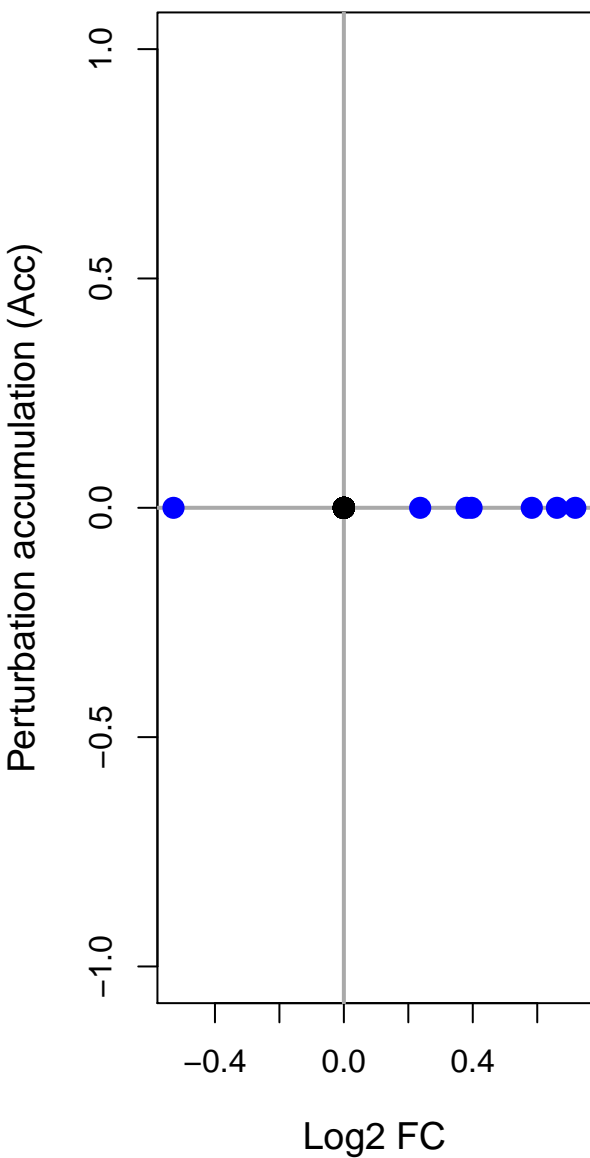
pathway ID=04064



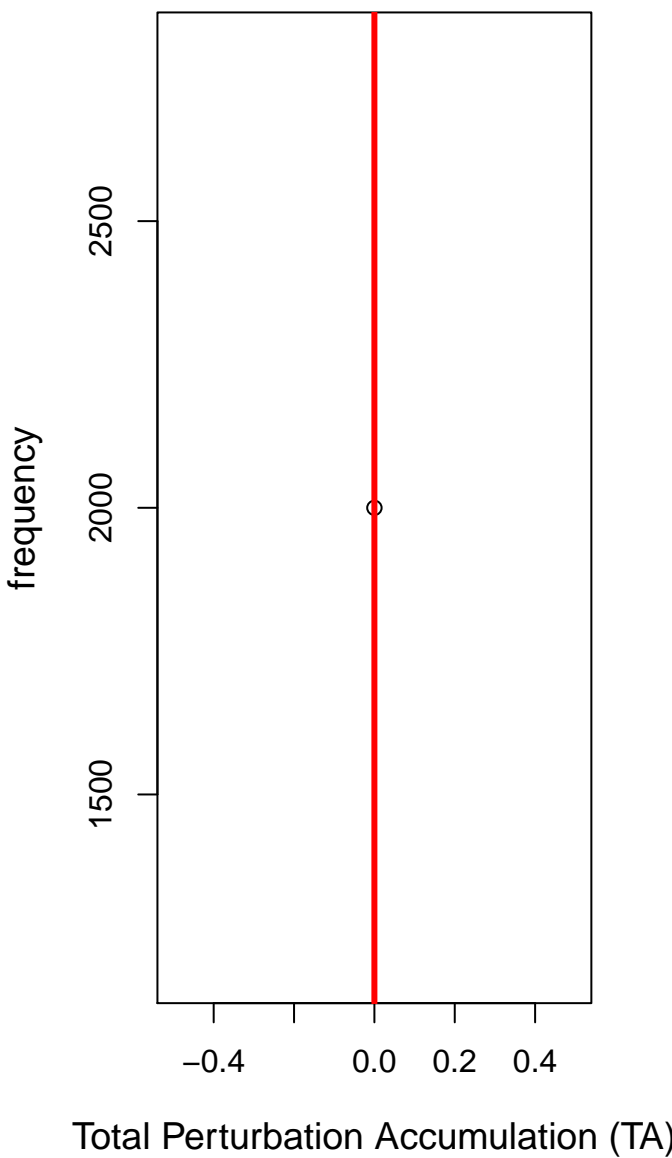
pathway ID=04064 P PERT=0.728



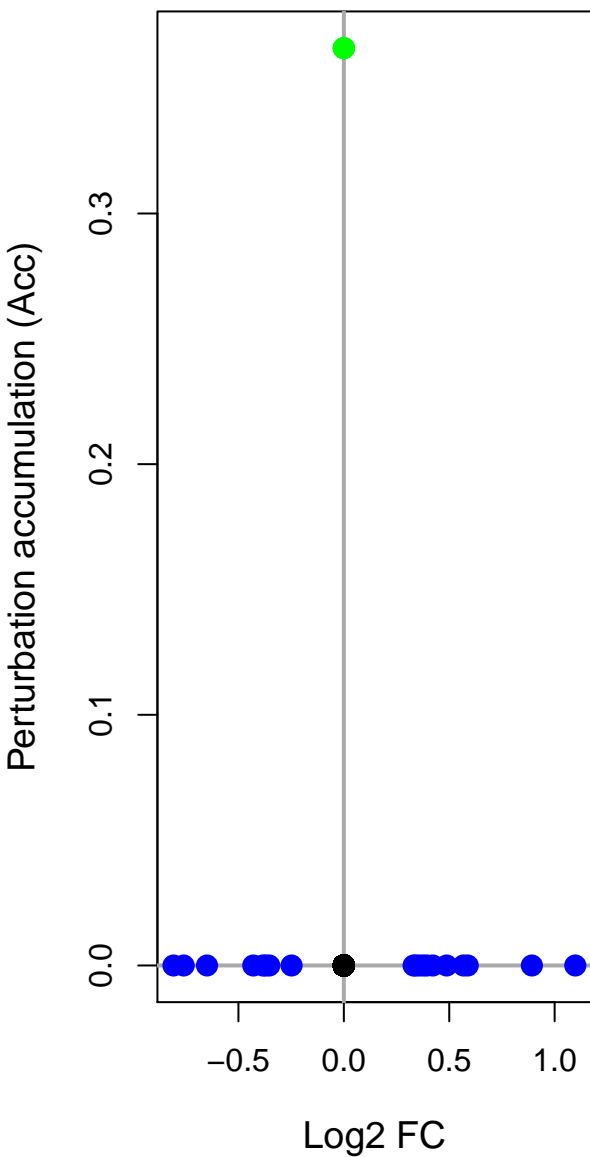
pathway ID=04070



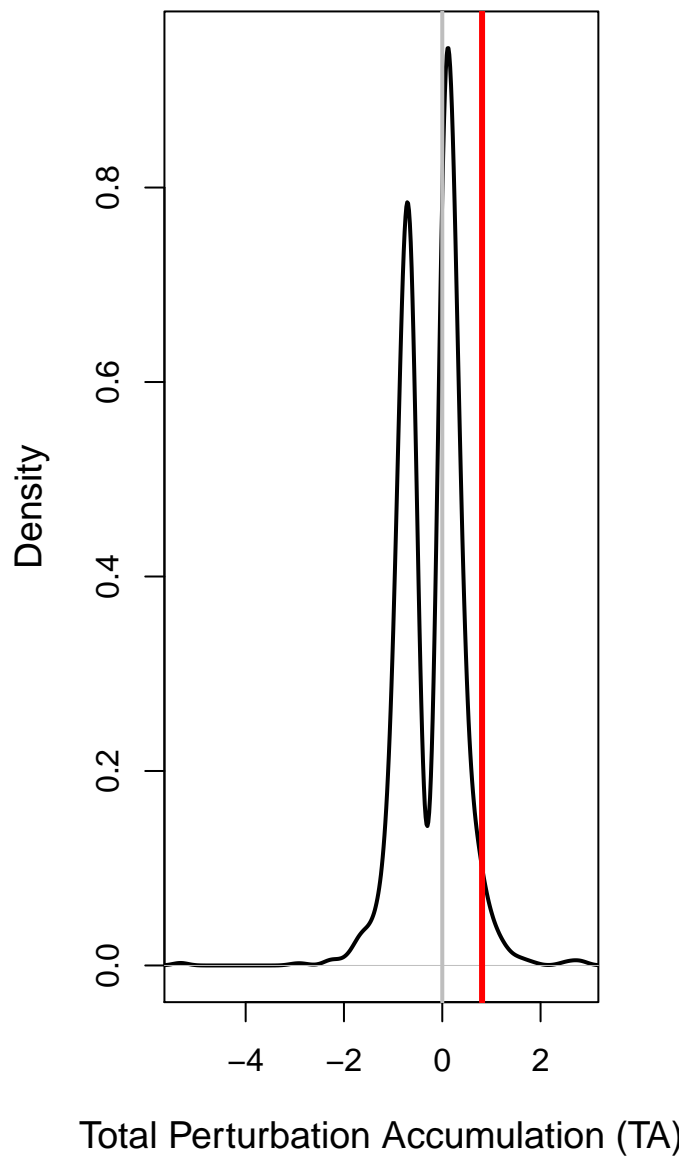
pathway ID=04070 P PERT=NA



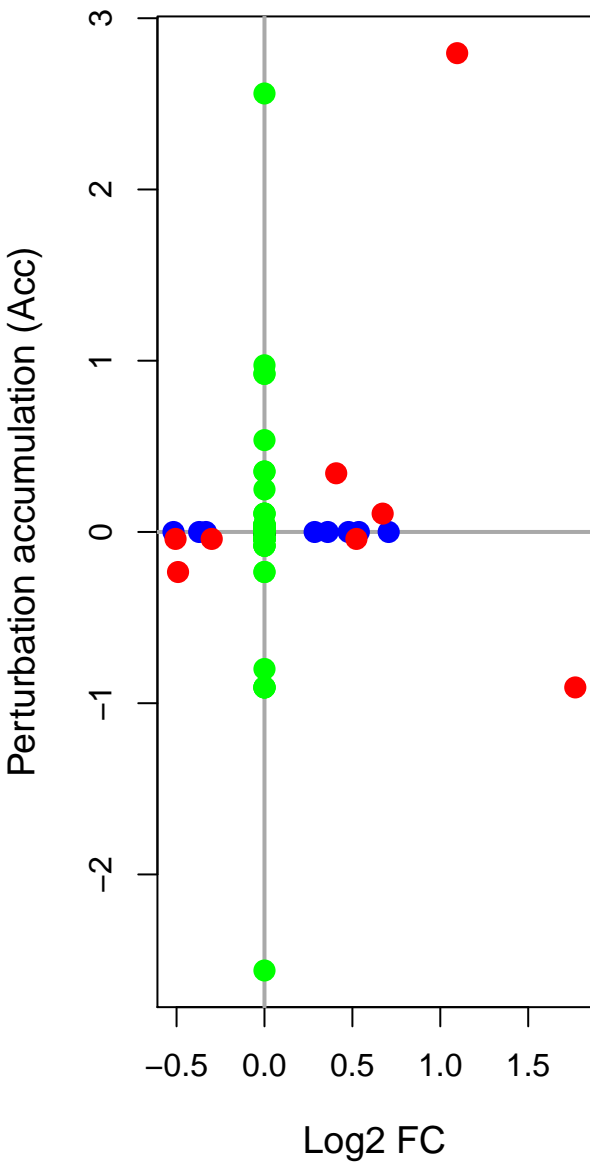
pathway ID=04080



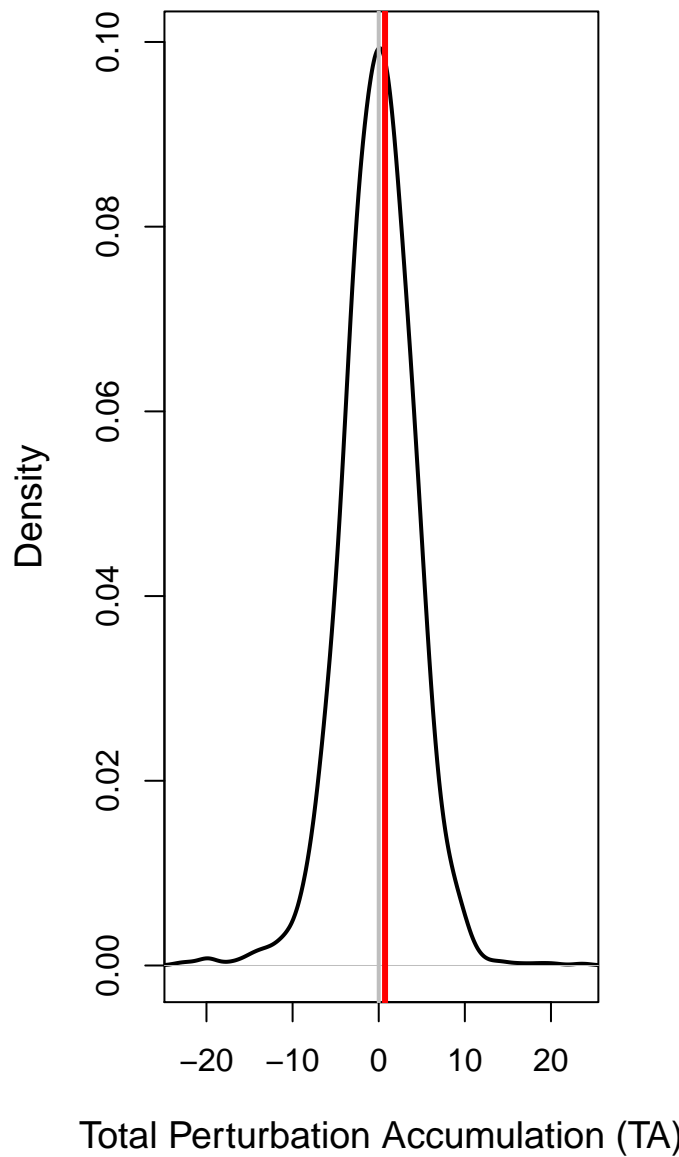
pathway ID=04080 P PERT=0.06



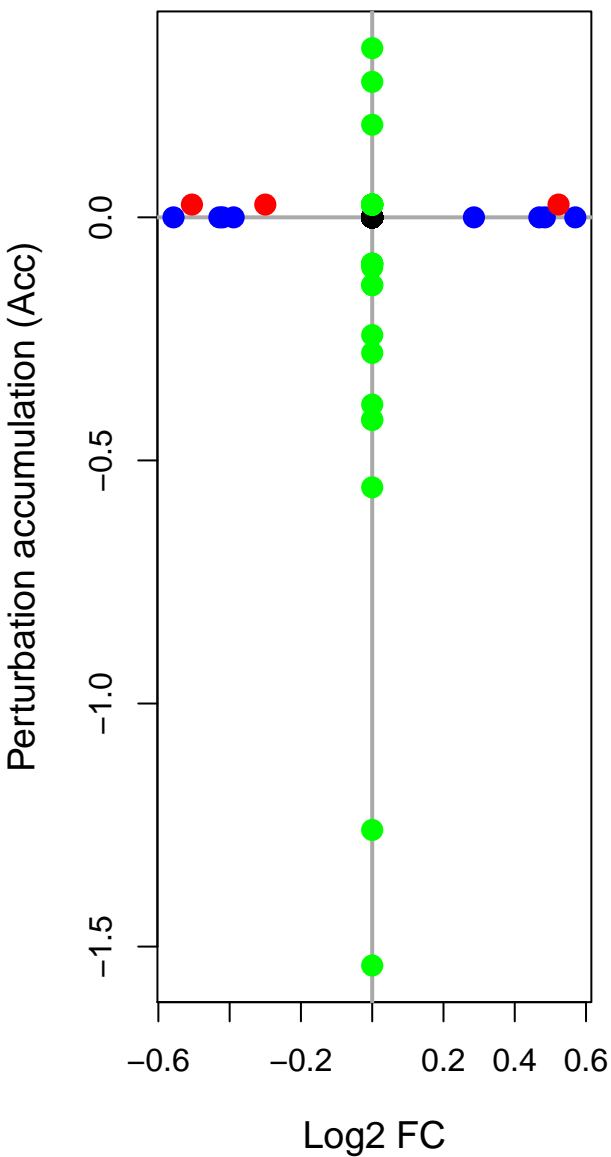
pathway ID=04110



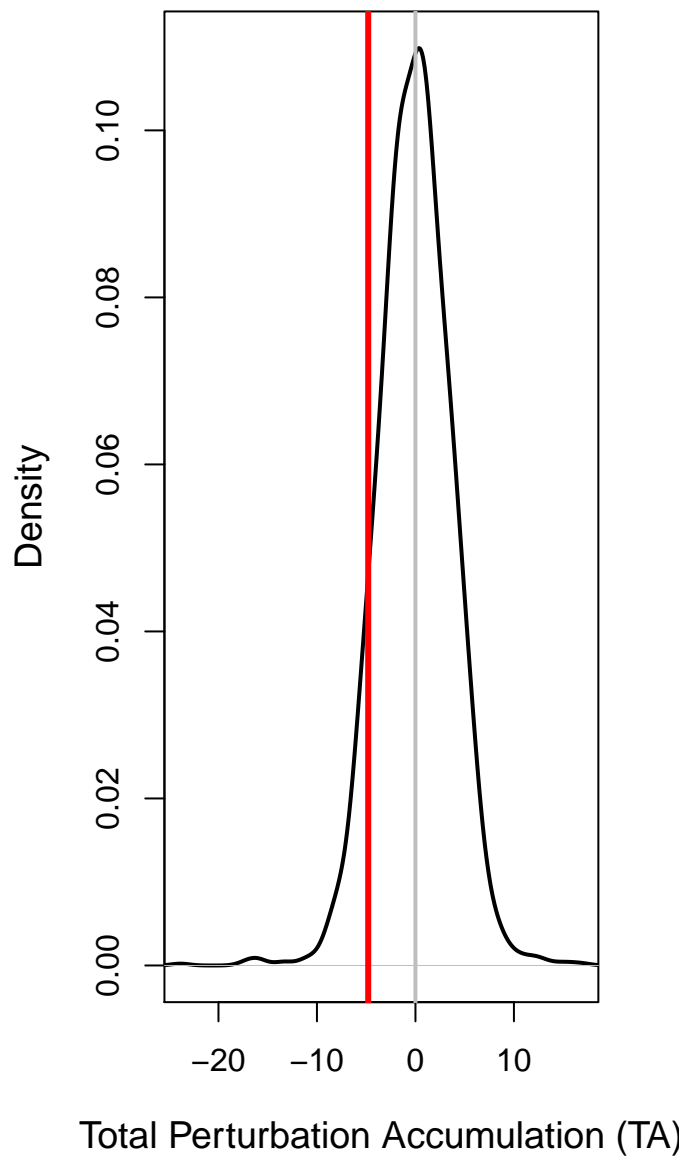
pathway ID=04110 P PERT=0.859



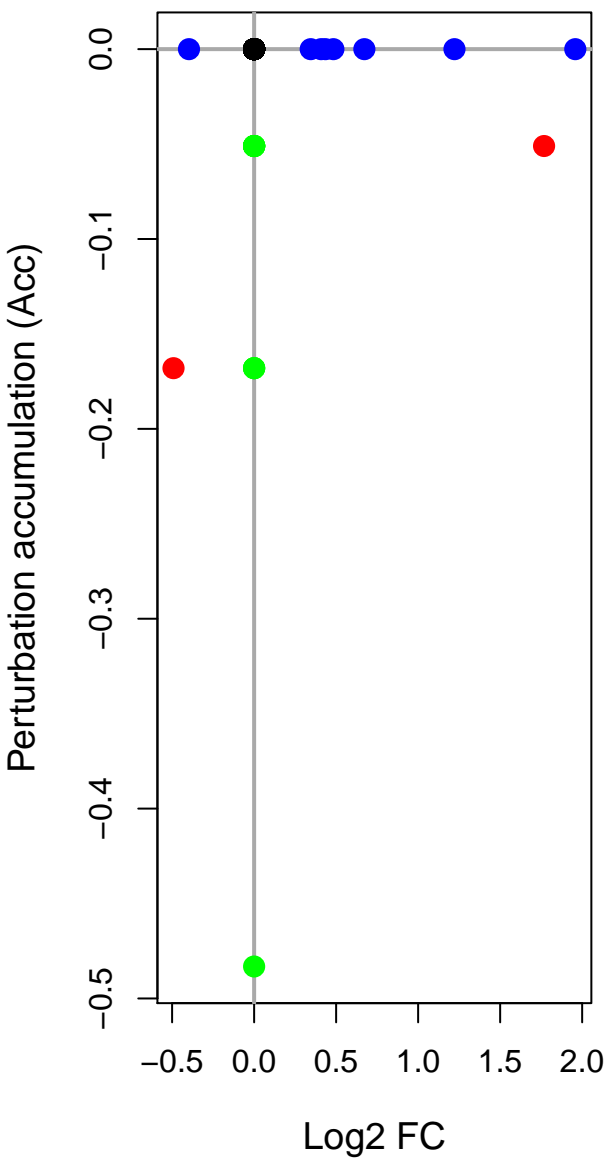
pathway ID=04114



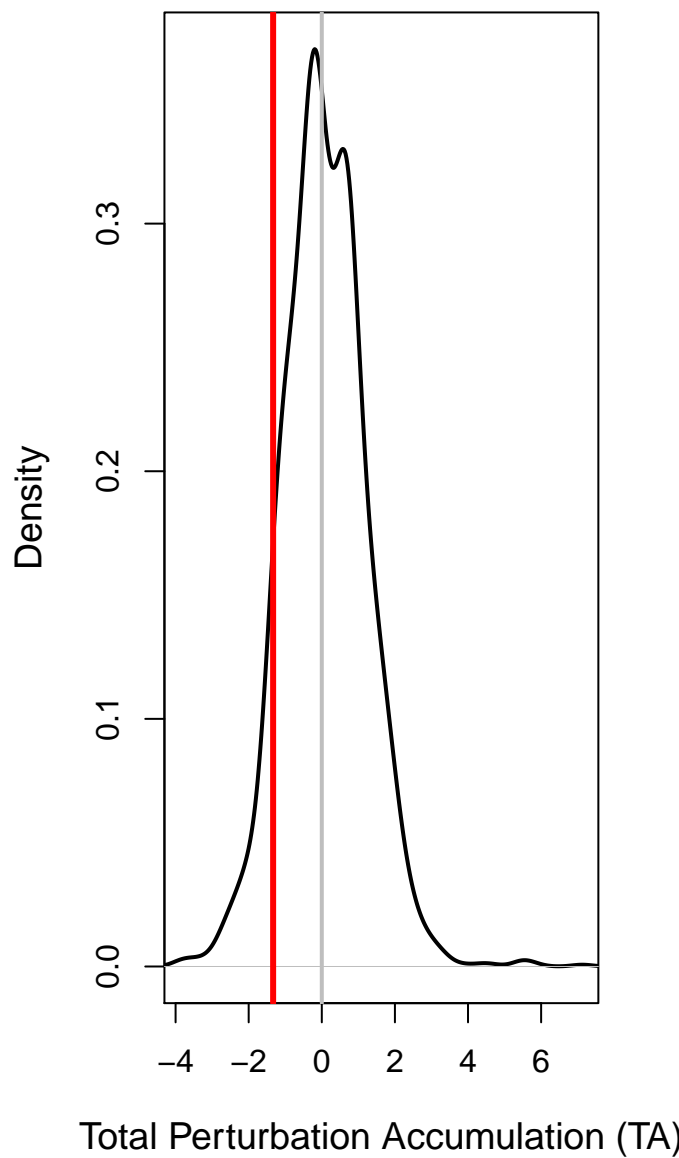
pathway ID=04114 P PERT=0.179



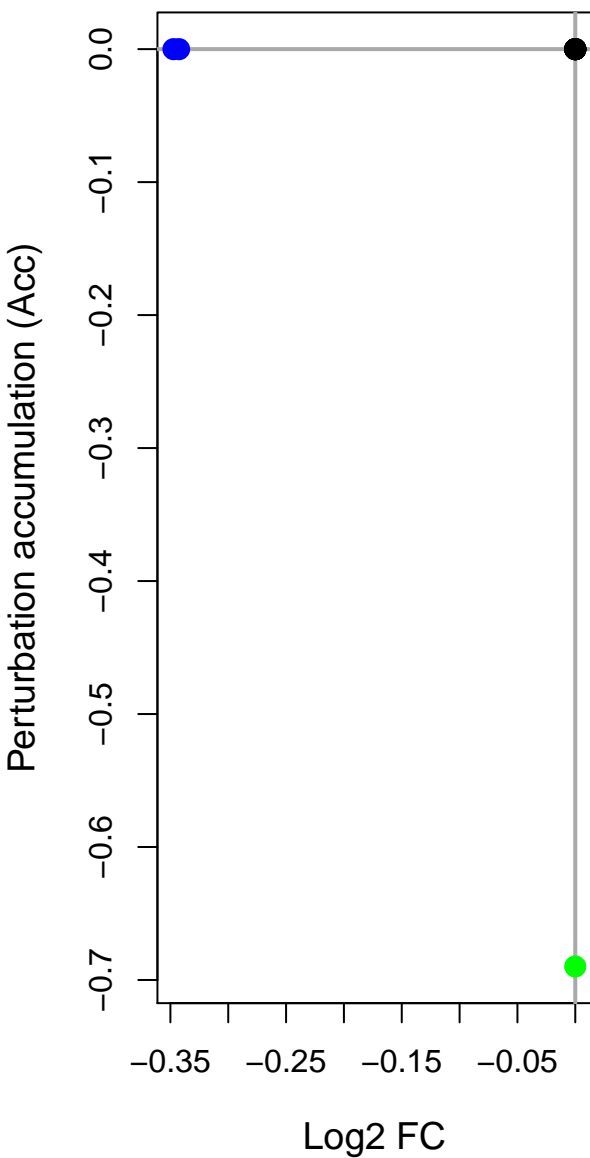
pathway ID=04115



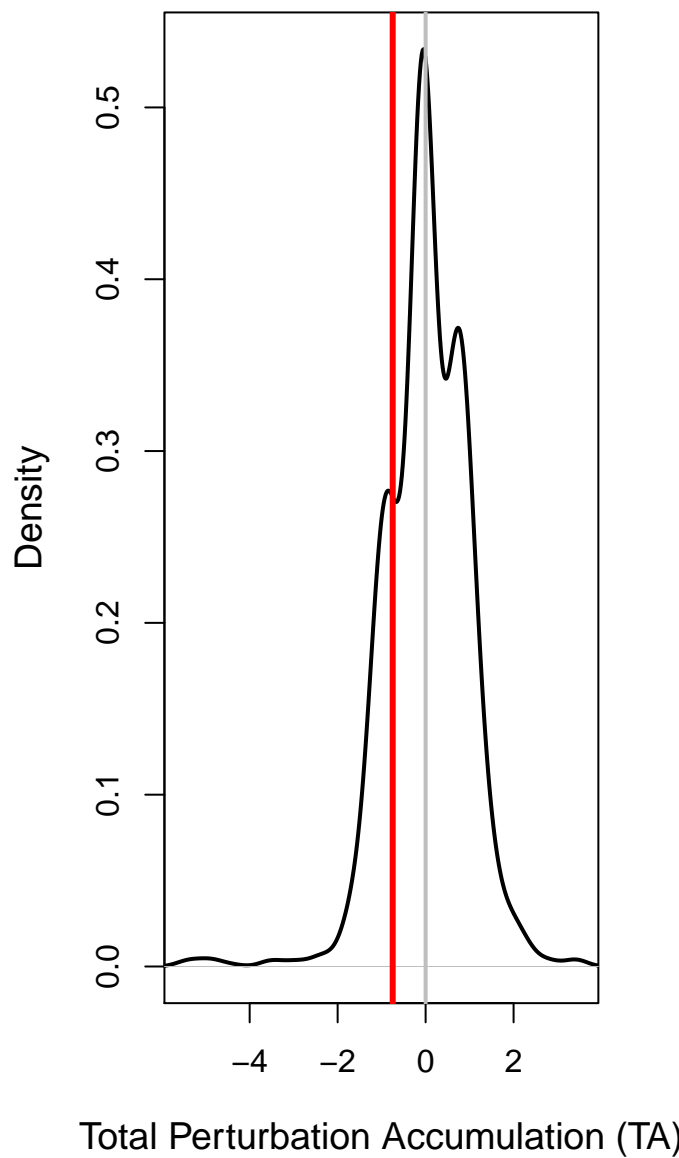
pathway ID=04115 P PERT=0.167



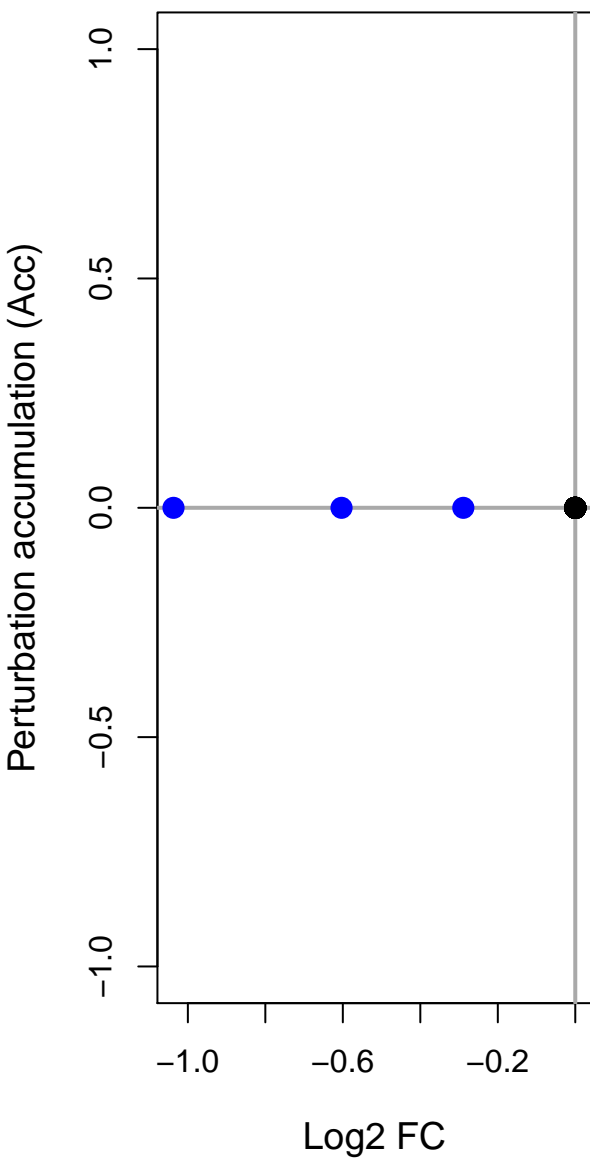
pathway ID=04122



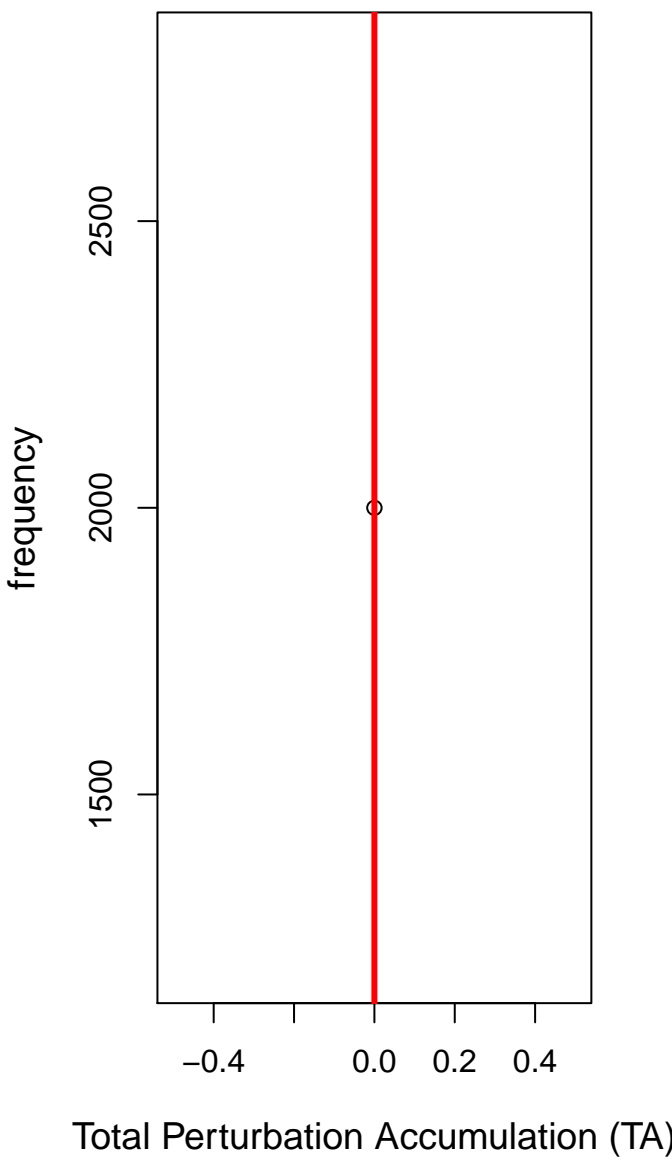
pathway ID=04122 P PERT=0.405



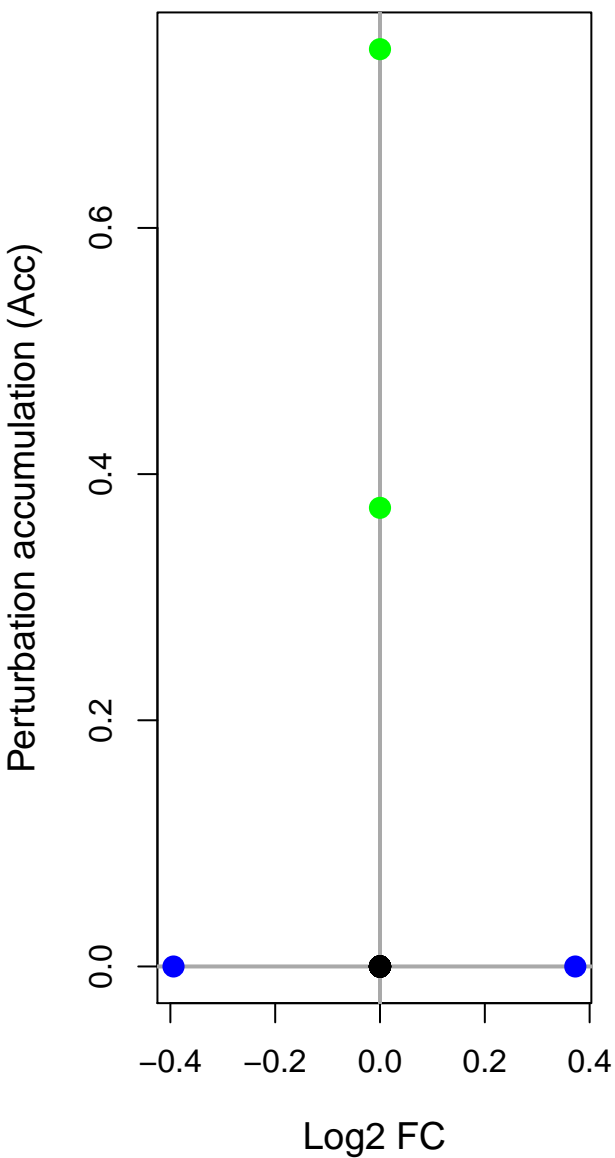
pathway ID=04130



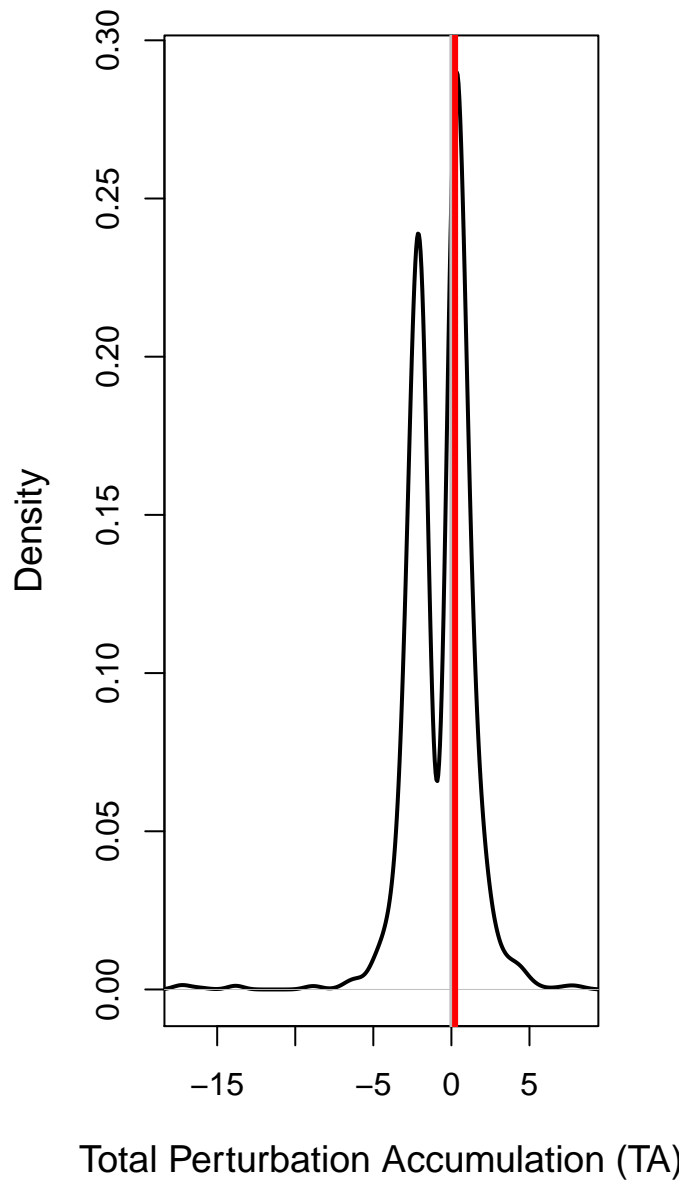
pathway ID=04130 P PERT=NA



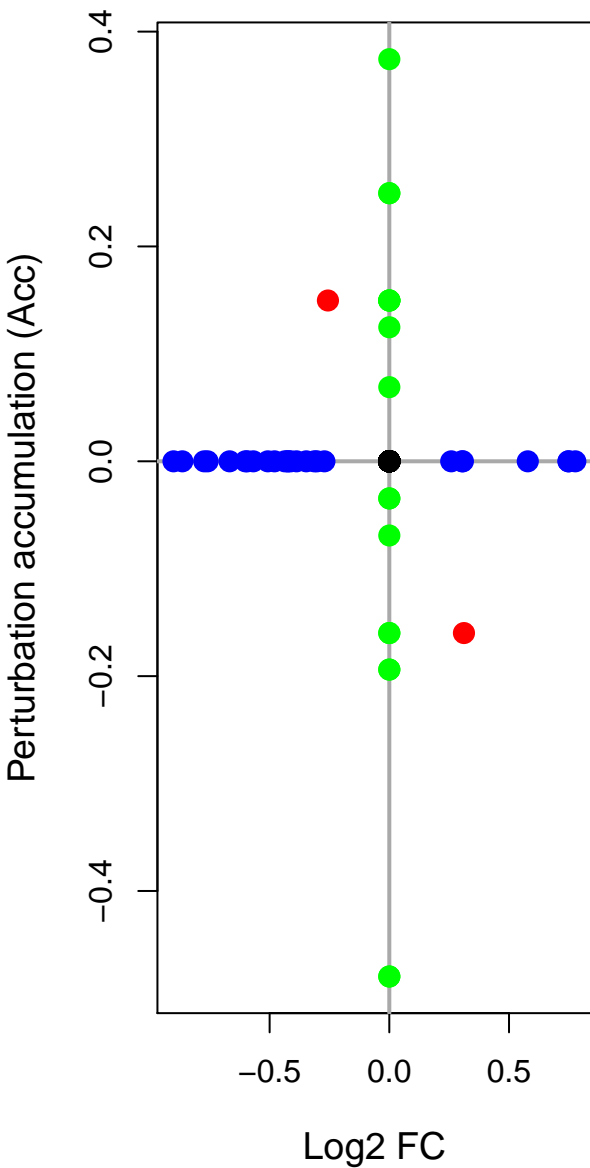
pathway ID=04140



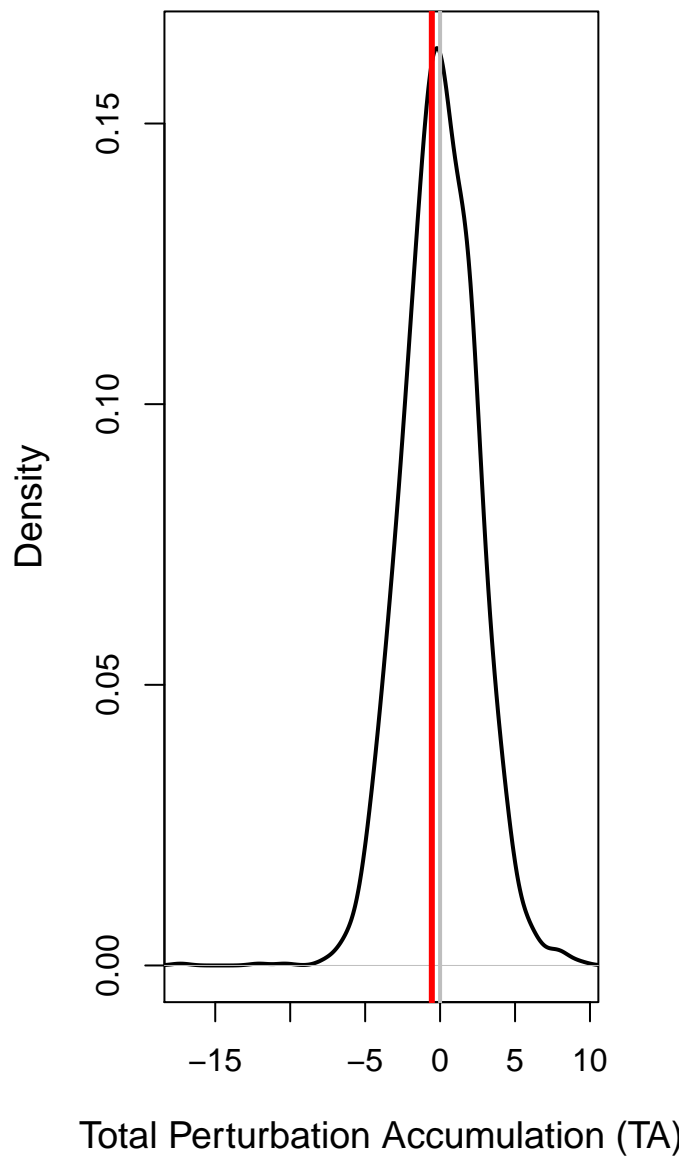
pathway ID=04140 P PERT=0.718



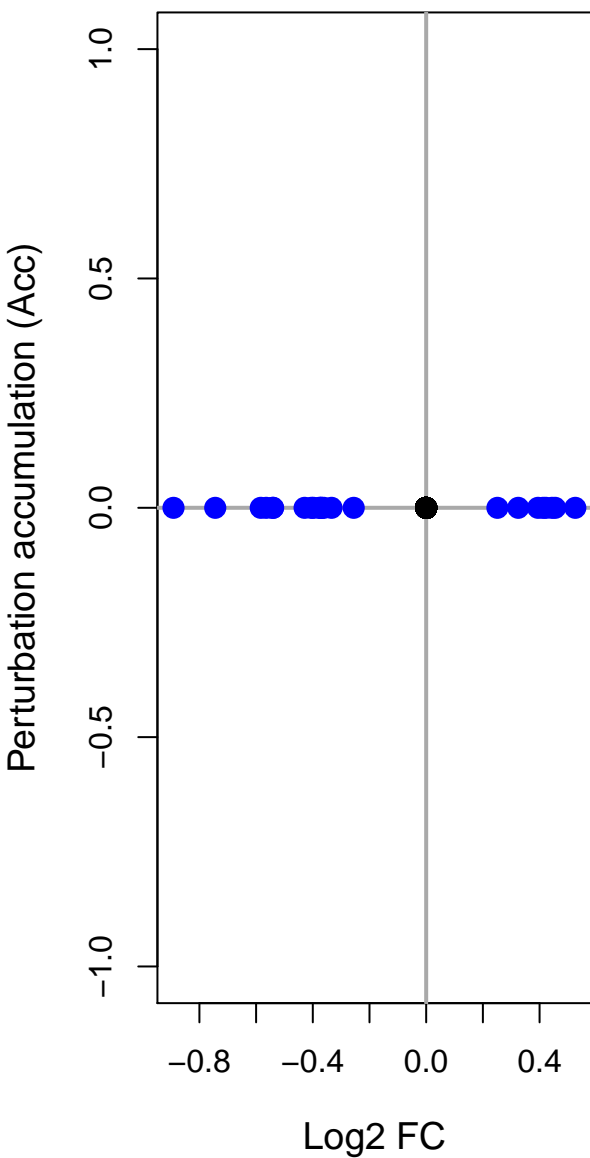
pathway ID=04141



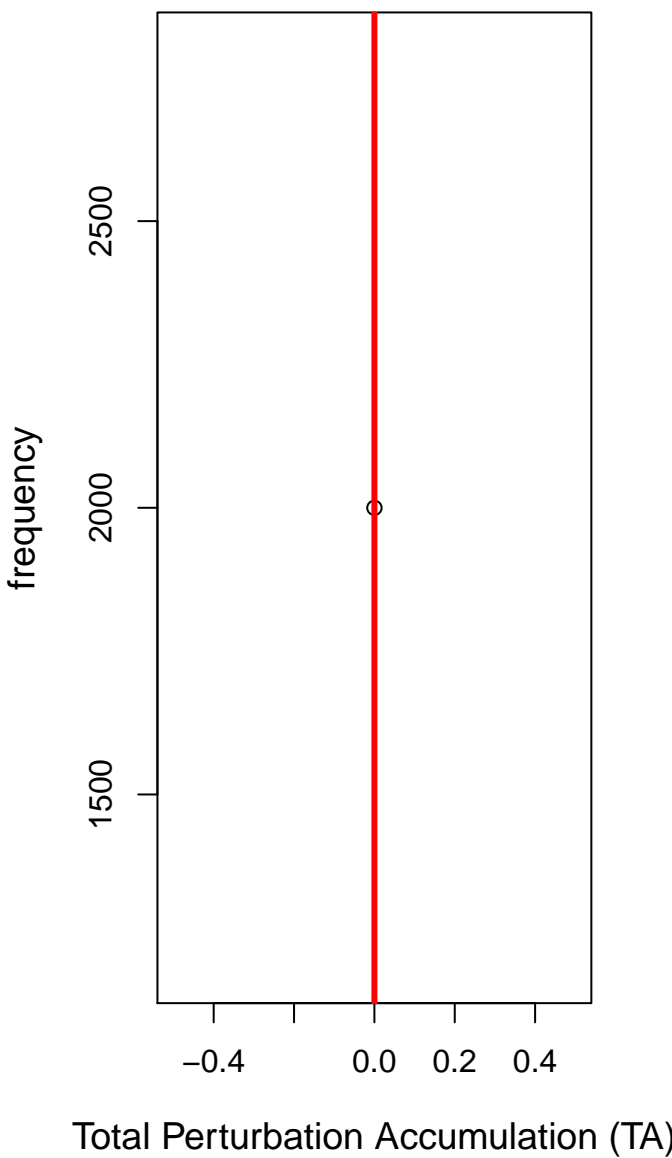
pathway ID=04141 P PERT=0.814



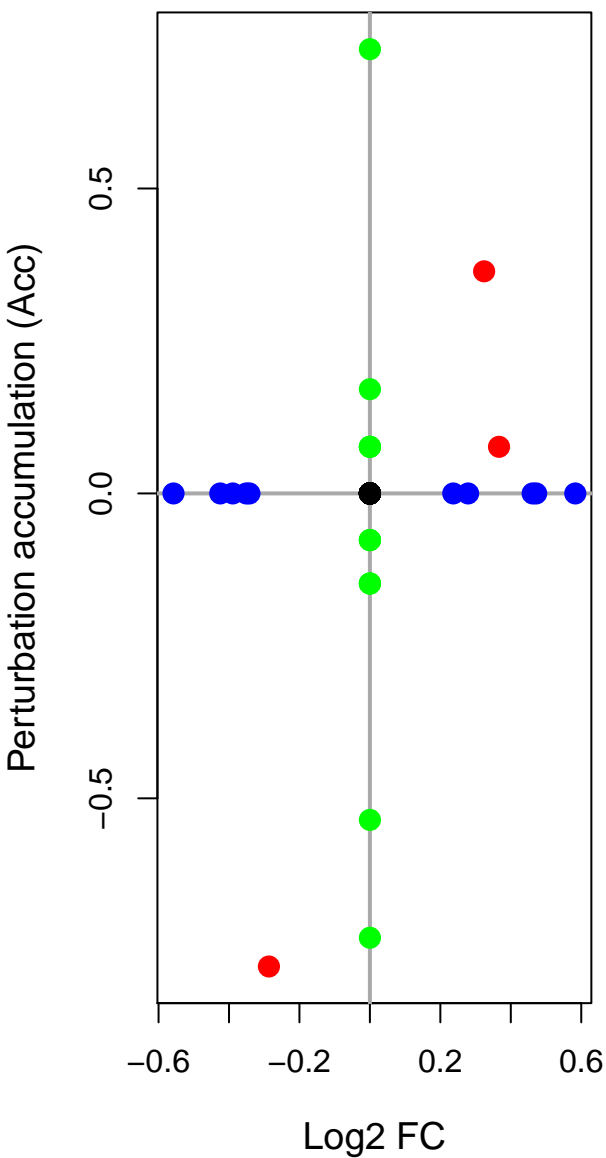
pathway ID=04142



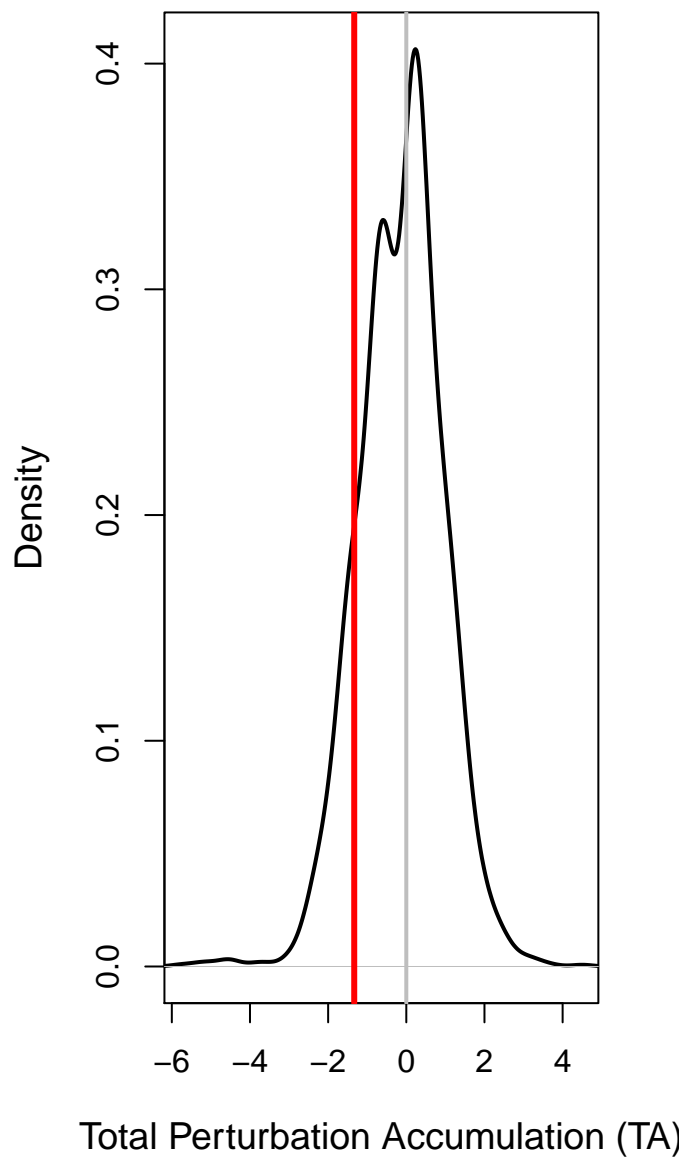
pathway ID=04142 P PERT=NA



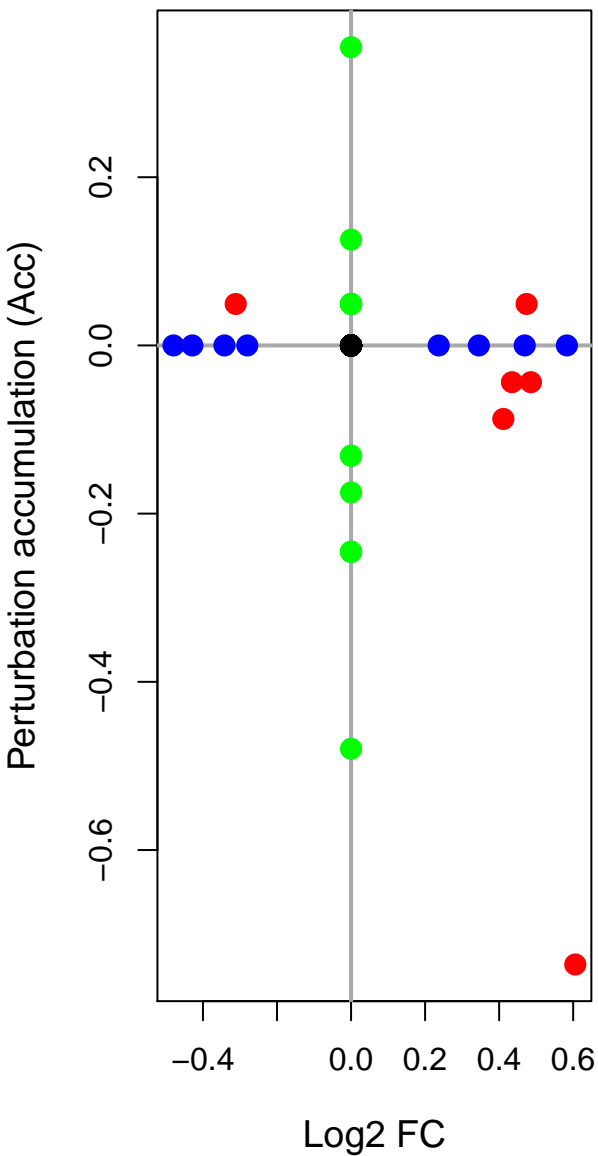
pathway ID=04150



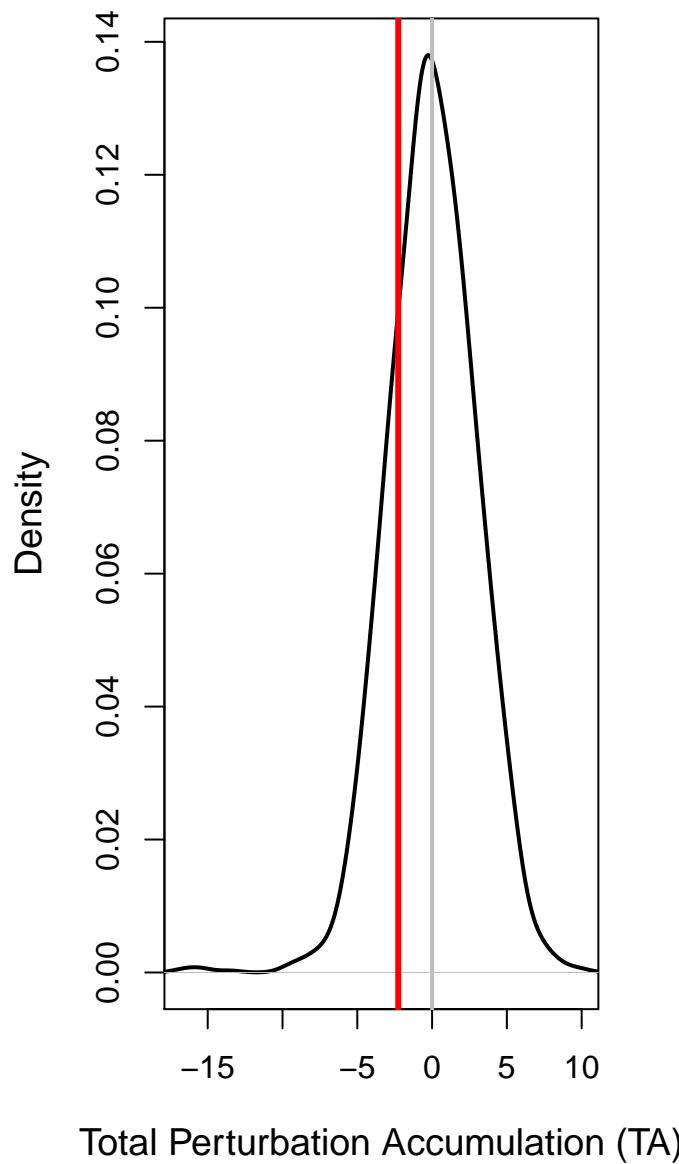
pathway ID=04150 P PERT=0.274



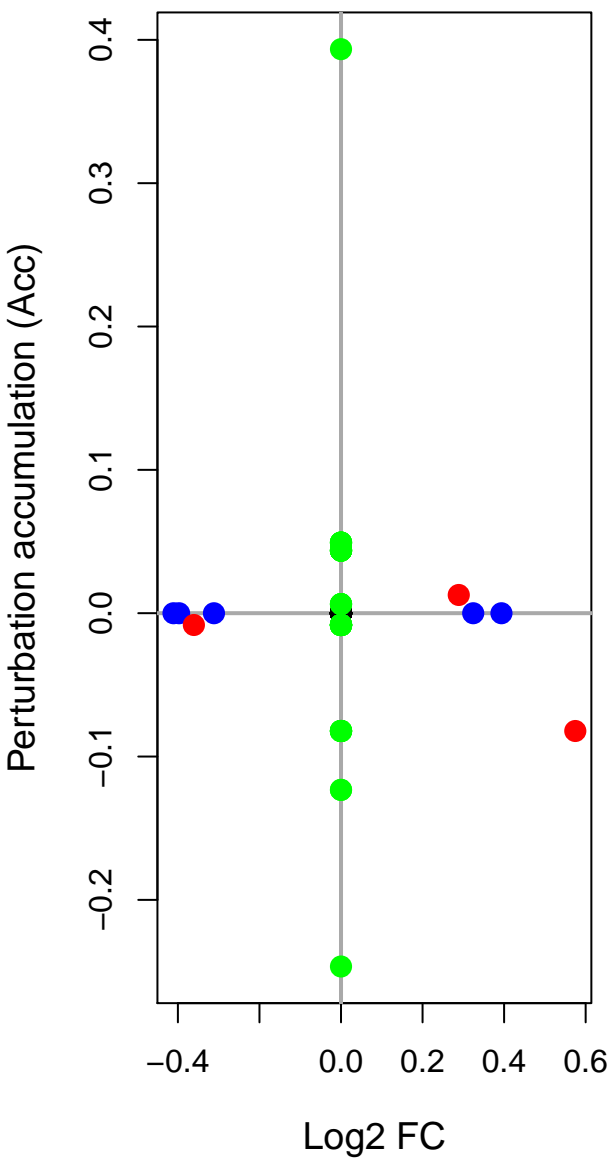
pathway ID=04210



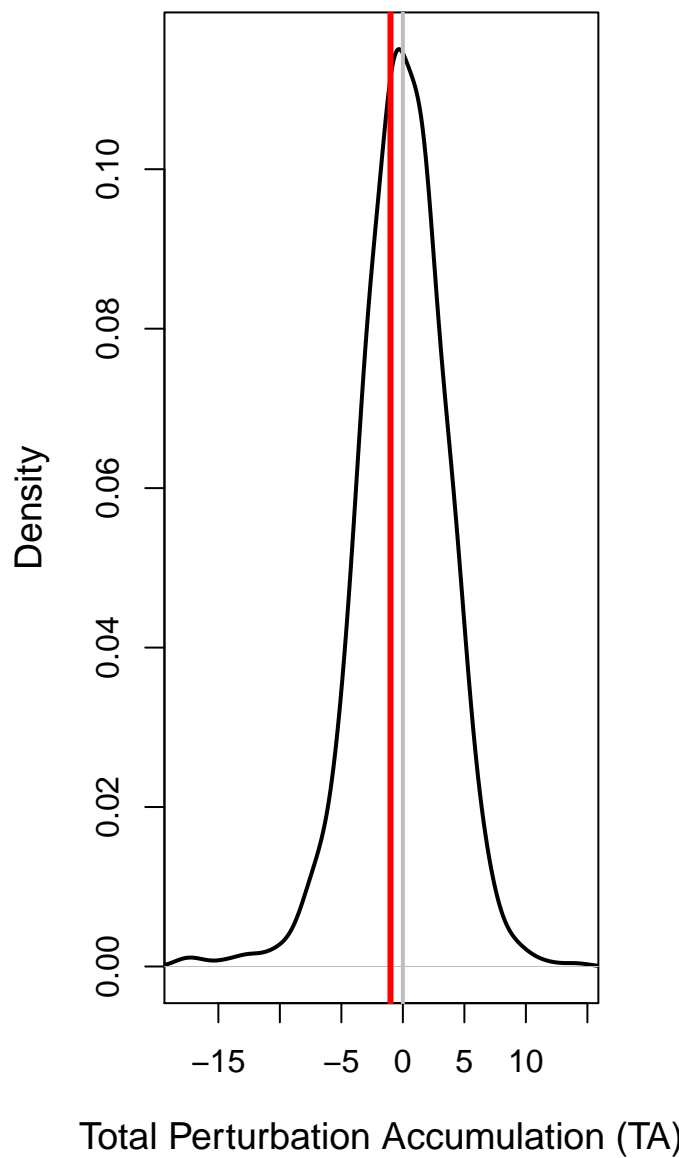
pathway ID=04210 P PERT=0.429



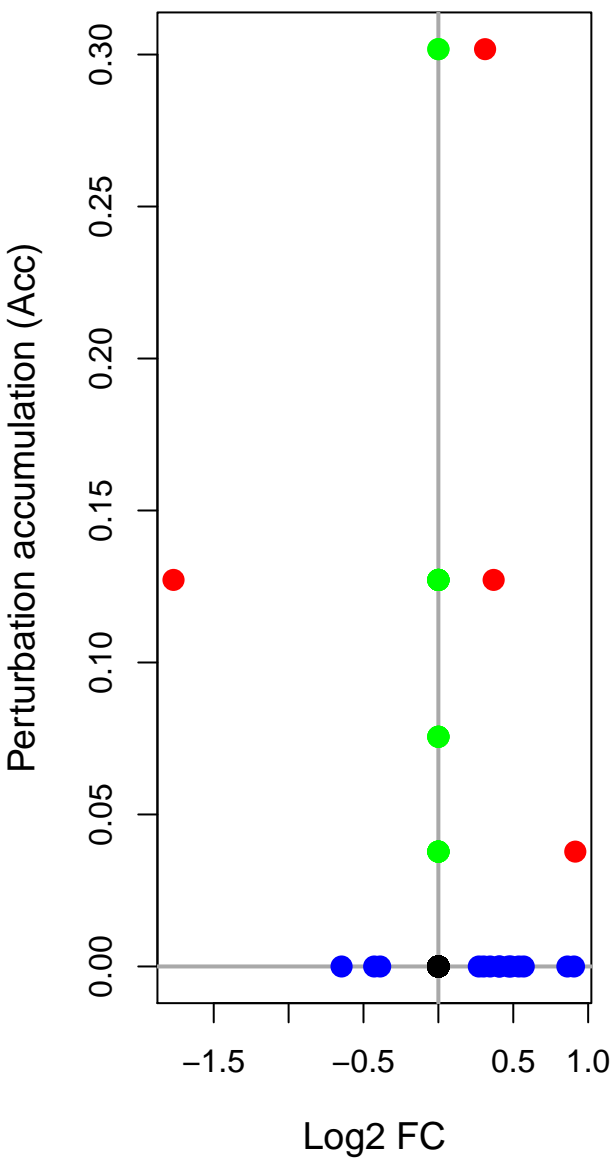
pathway ID=04270



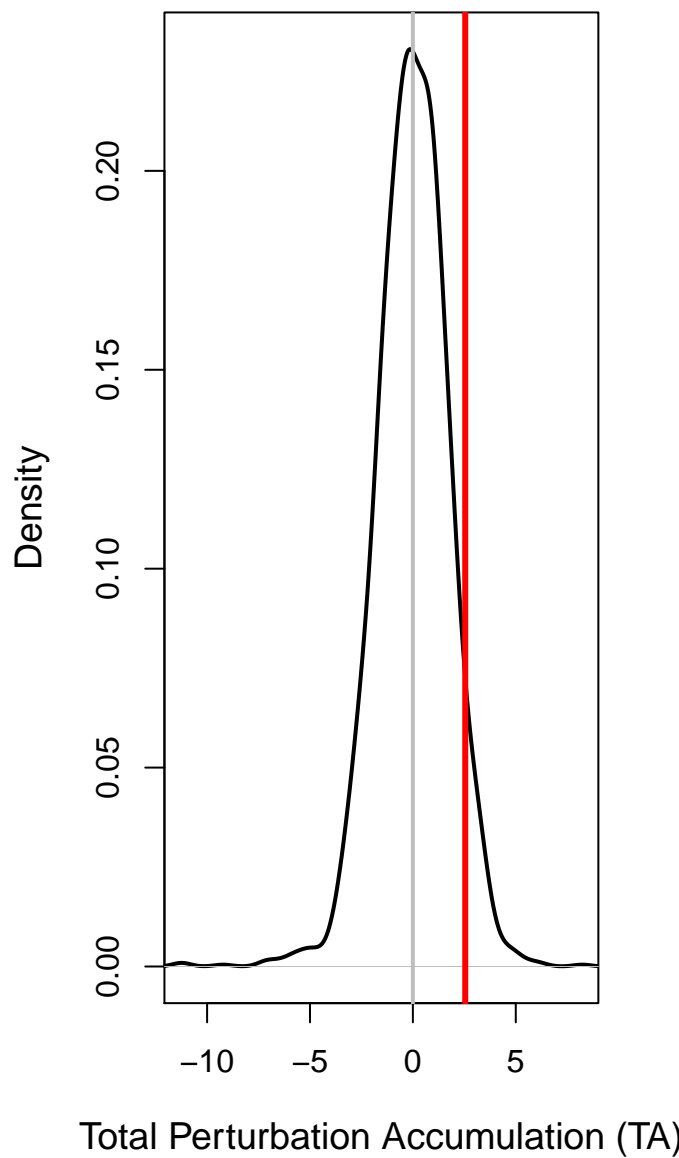
pathway ID=04270 P PERT=0.745



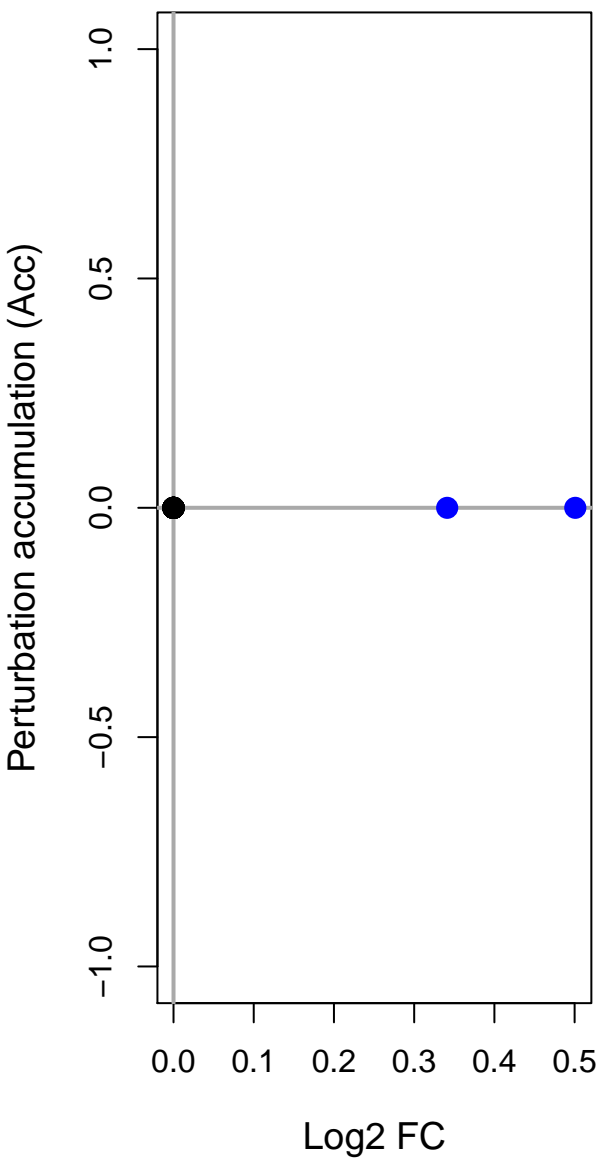
pathway ID=04310



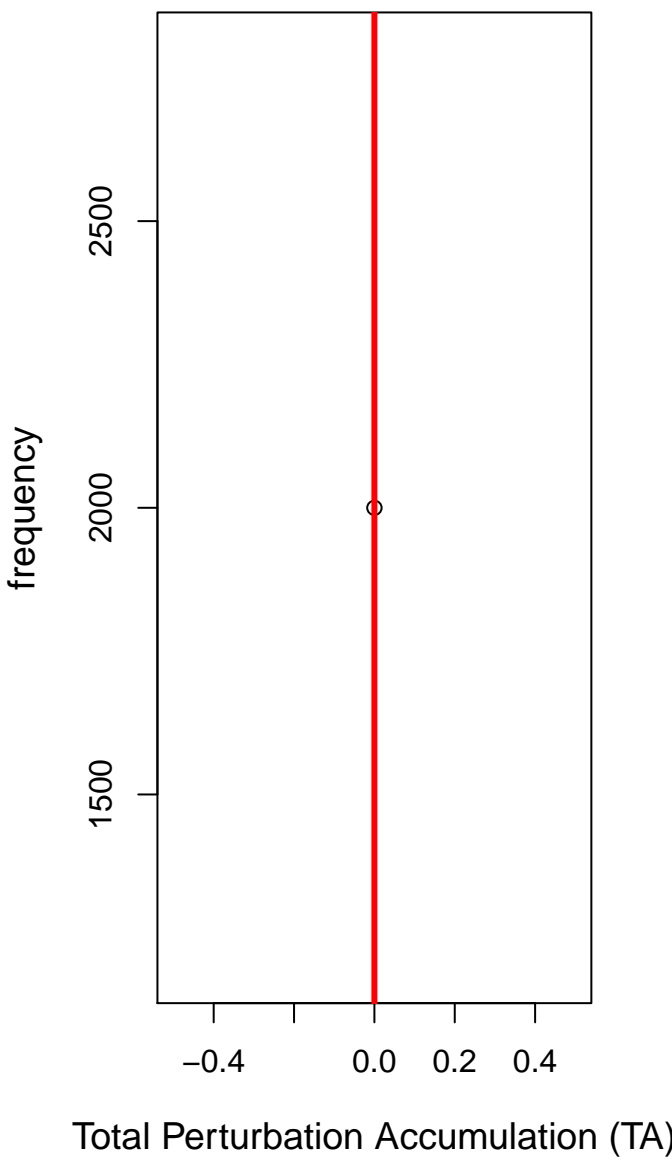
pathway ID=04310 P PERT=0.122



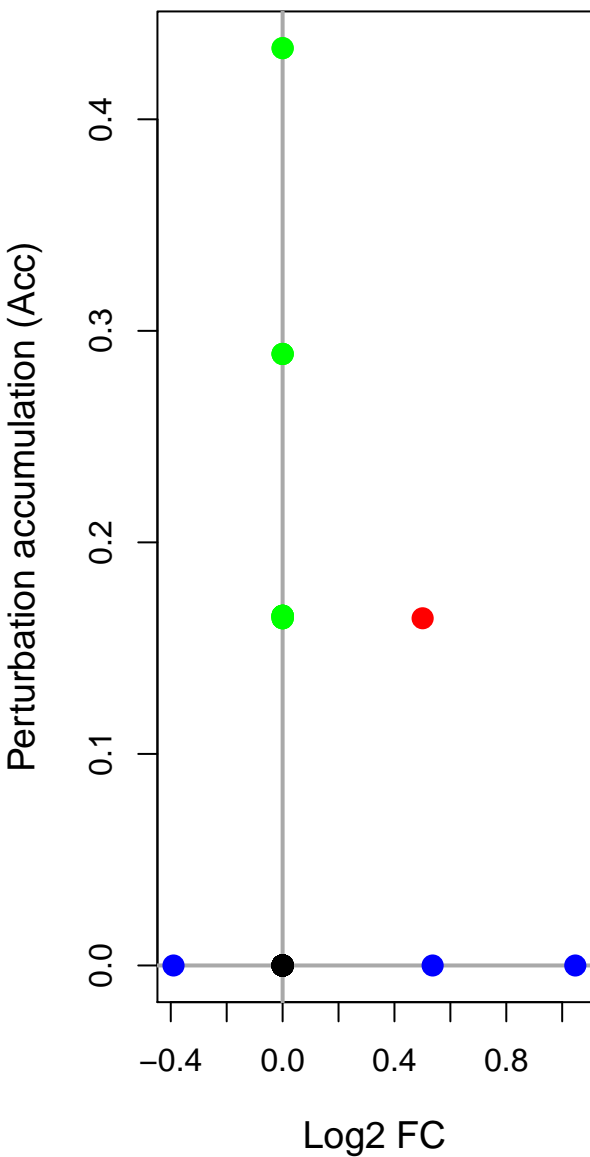
pathway ID=04320



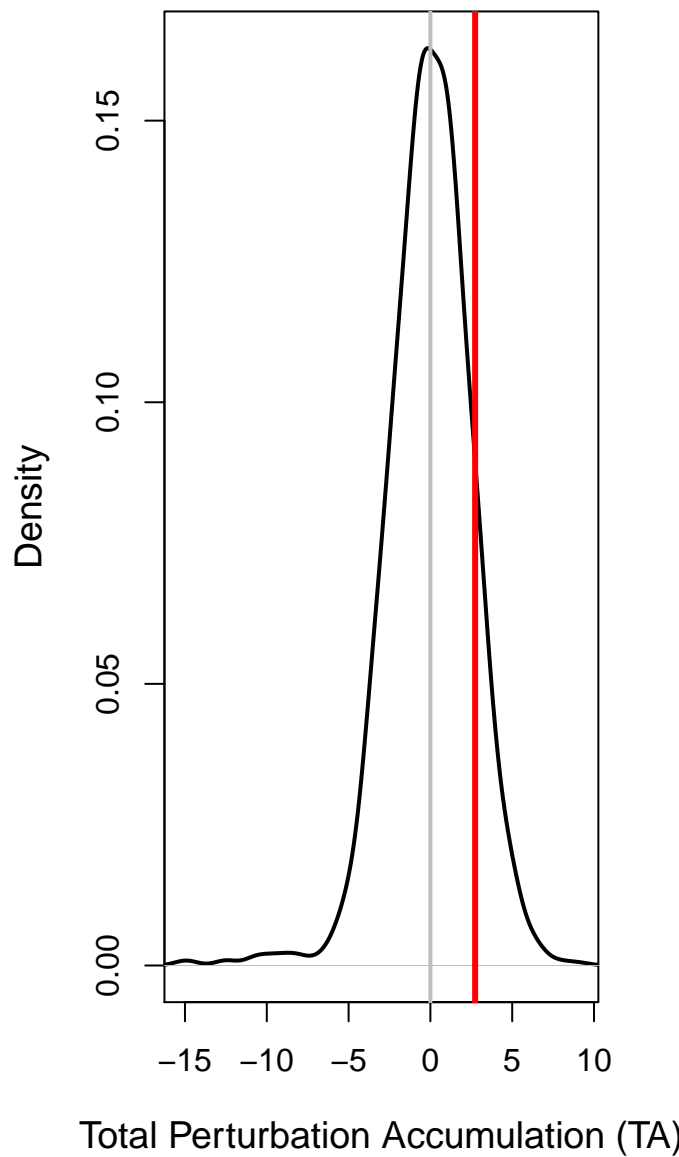
pathway ID=04320 P PERT=NA



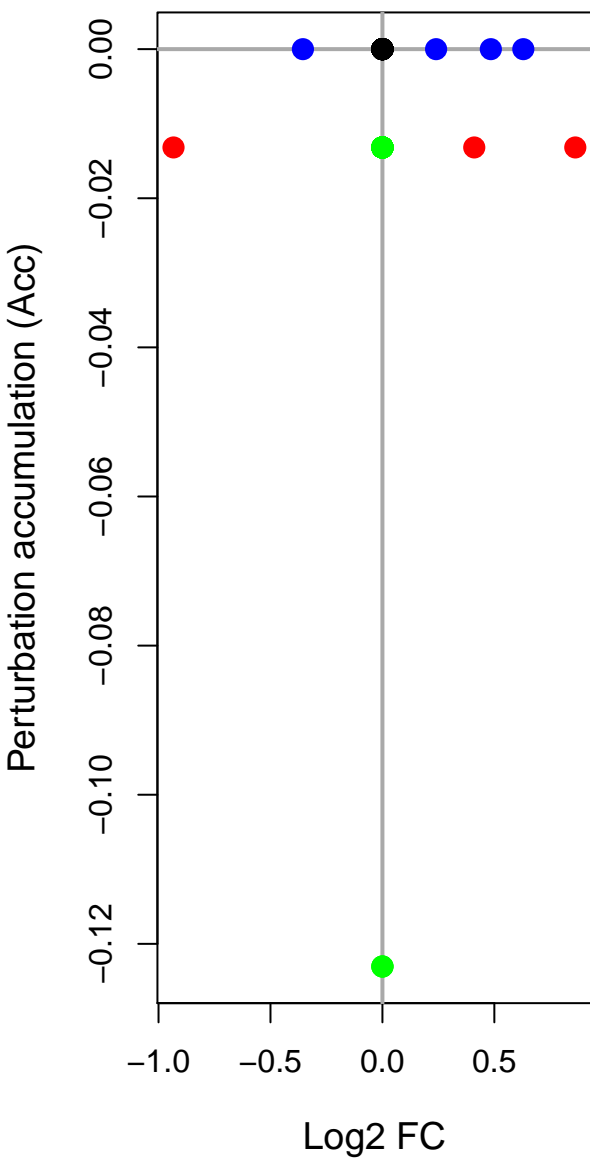
pathway ID=04330



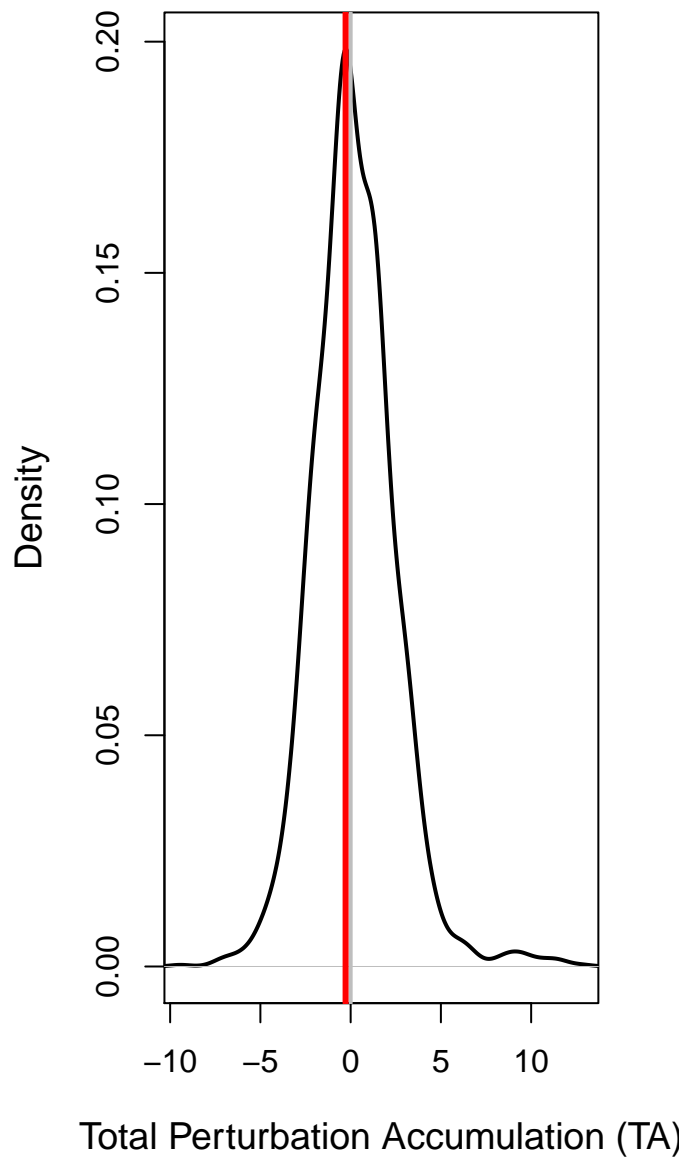
pathway ID=04330 P PERT=0.253



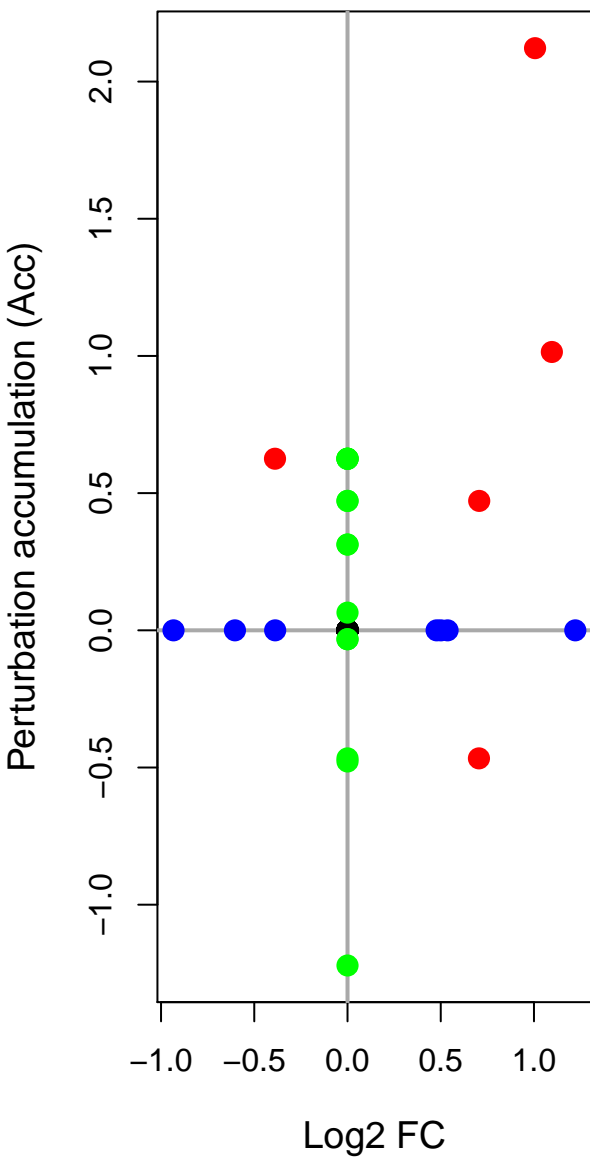
pathway ID=04340



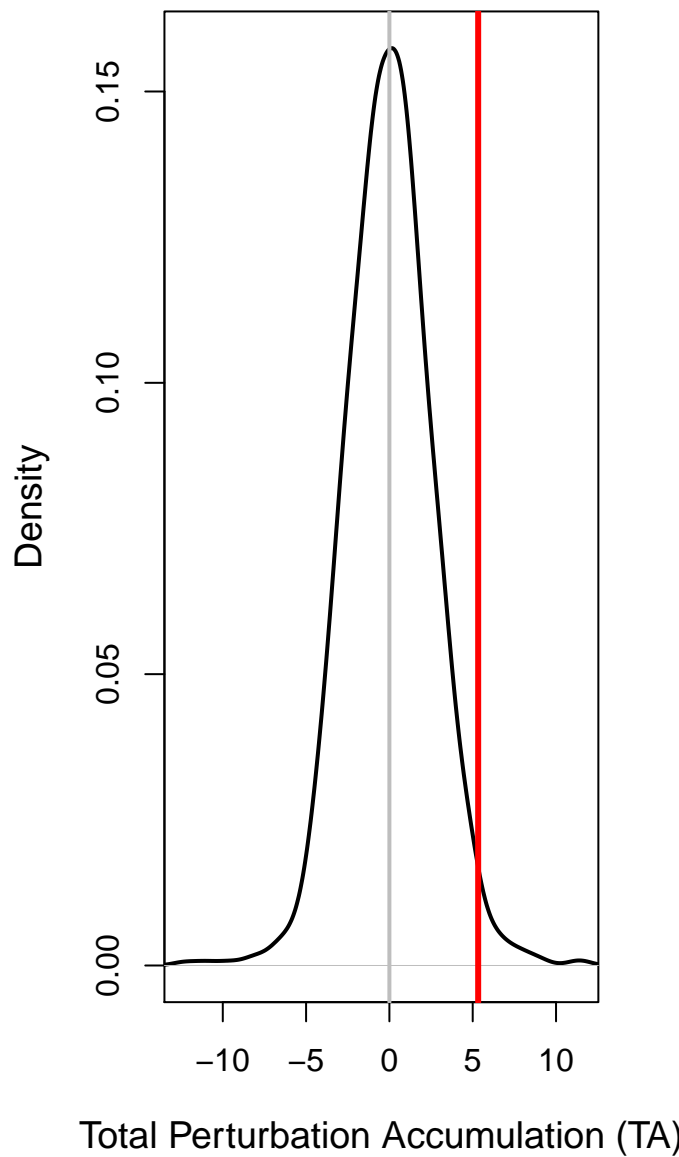
pathway ID=04340 P PERT=0.853



pathway ID=04350



pathway ID=04350 P PERT=0.038



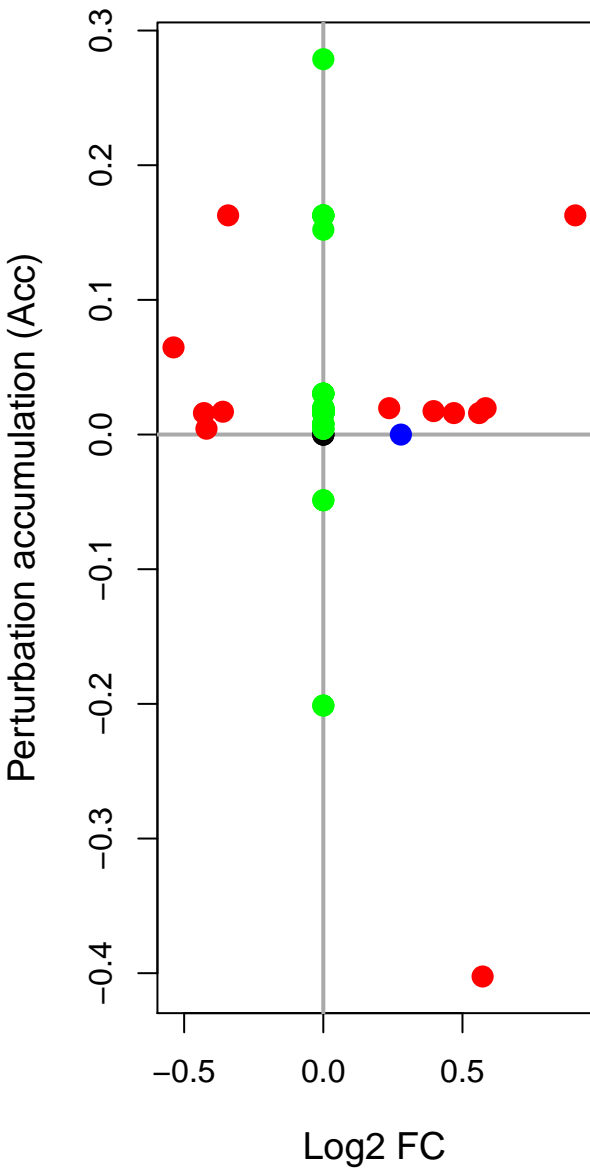
A scatter plot showing two classes of data points in a 2D space. The x-axis ranges from -0.5 to 0.5, and the y-axis ranges from -0.5 to 0.5. The red points are clustered in the upper right region, and the green points are clustered in the lower left region. The two classes are linearly separable.

-0.5 0.0 0.5

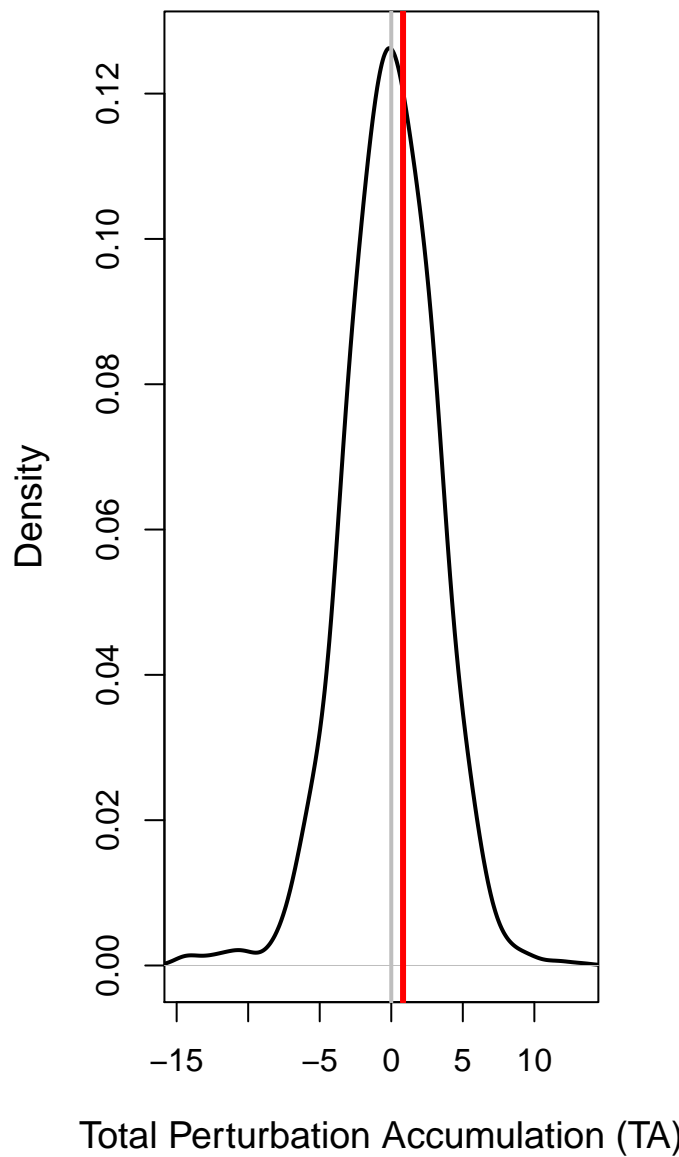
A plot of a Gaussian distribution curve centered at 0. The x-axis ranges from -20 to 10, and the y-axis ranges from 0.00 to 0.08. A vertical gray line is at x=0, and a vertical red line is at x=10.

-20 -10 0 10

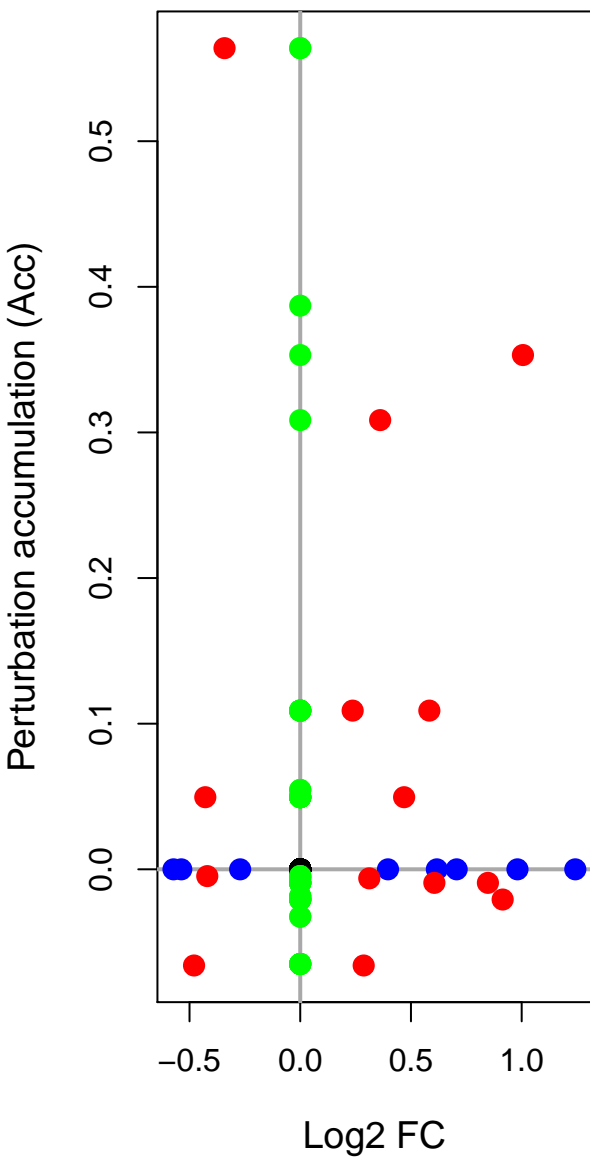
pathway ID=04370



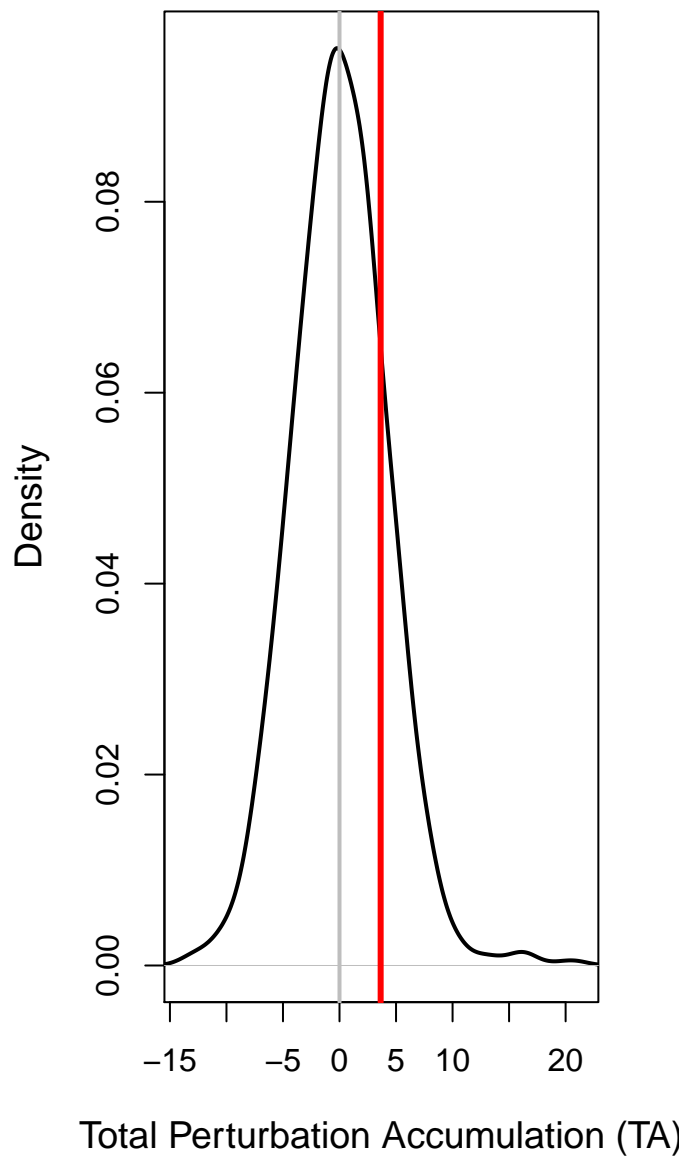
pathway ID=04370 P PERT=0.785



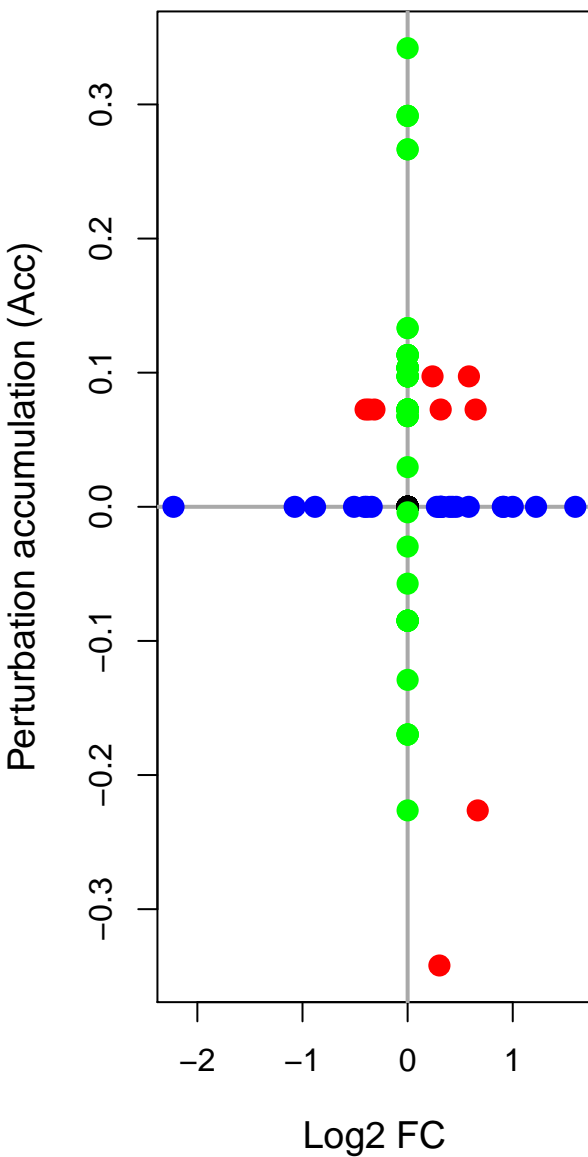
pathway ID=04380



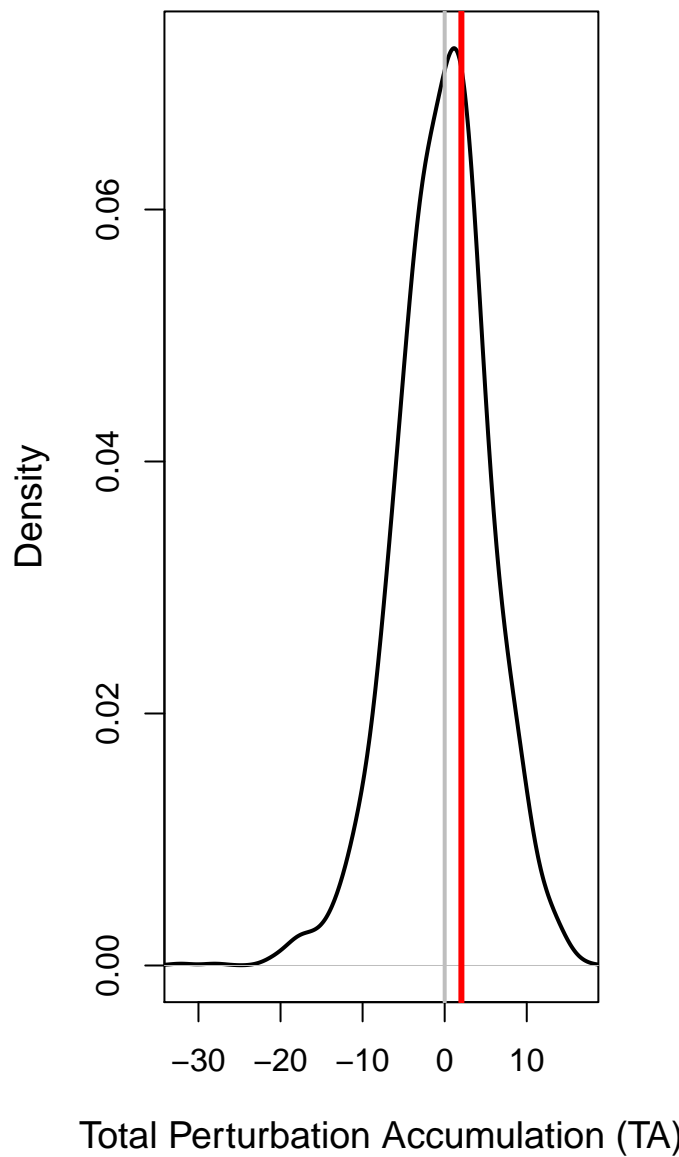
pathway ID=04380 P PERT=0.372



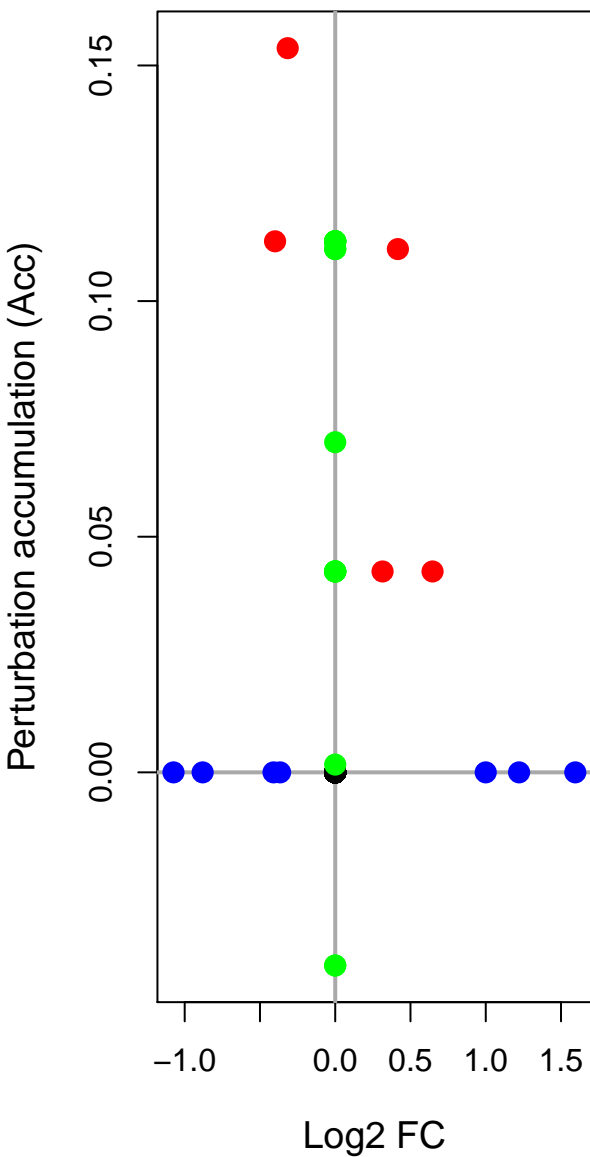
pathway ID=04510



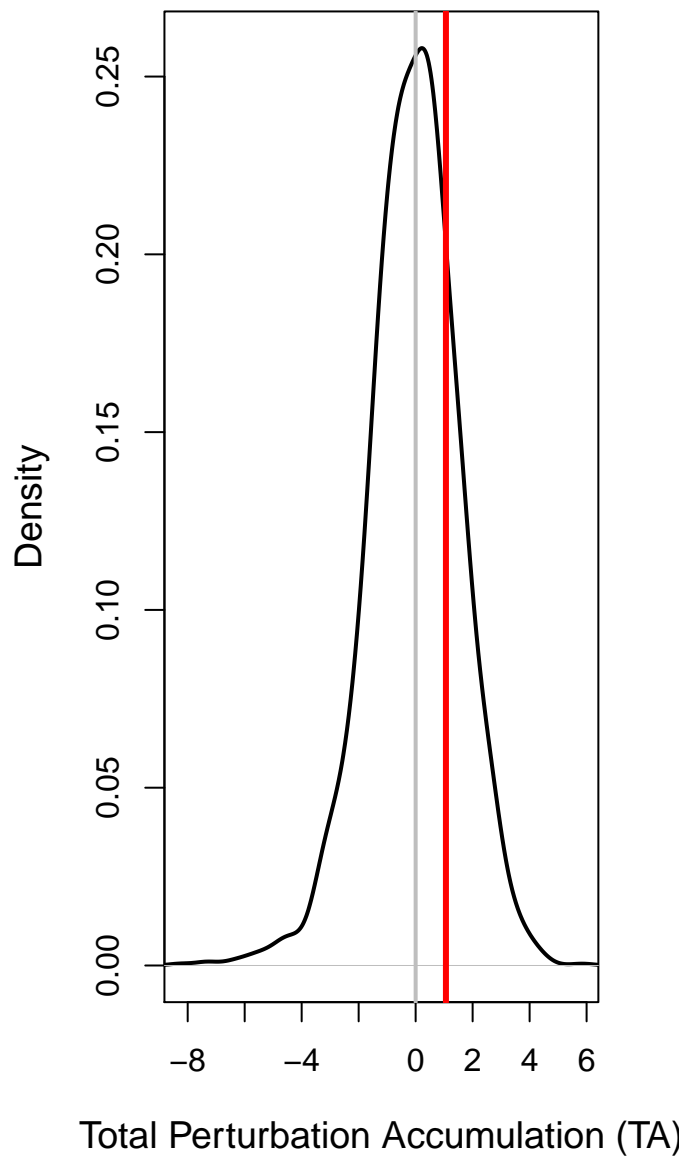
pathway ID=04510 P PERT=0.692



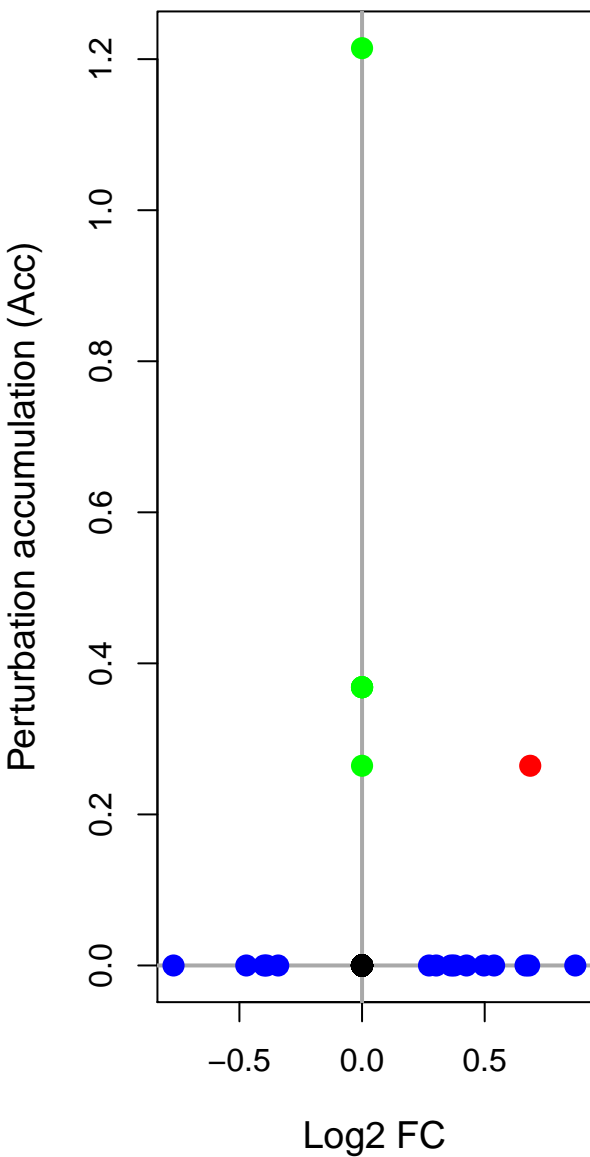
pathway ID=04512



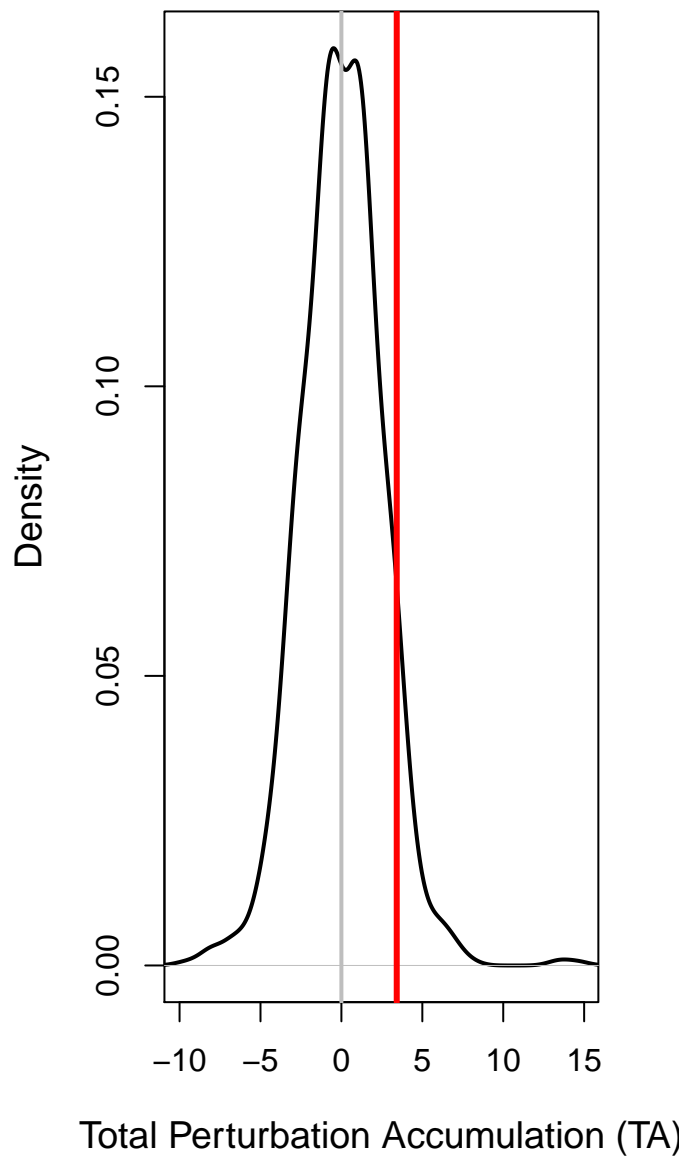
pathway ID=04512 P PERT=0.46



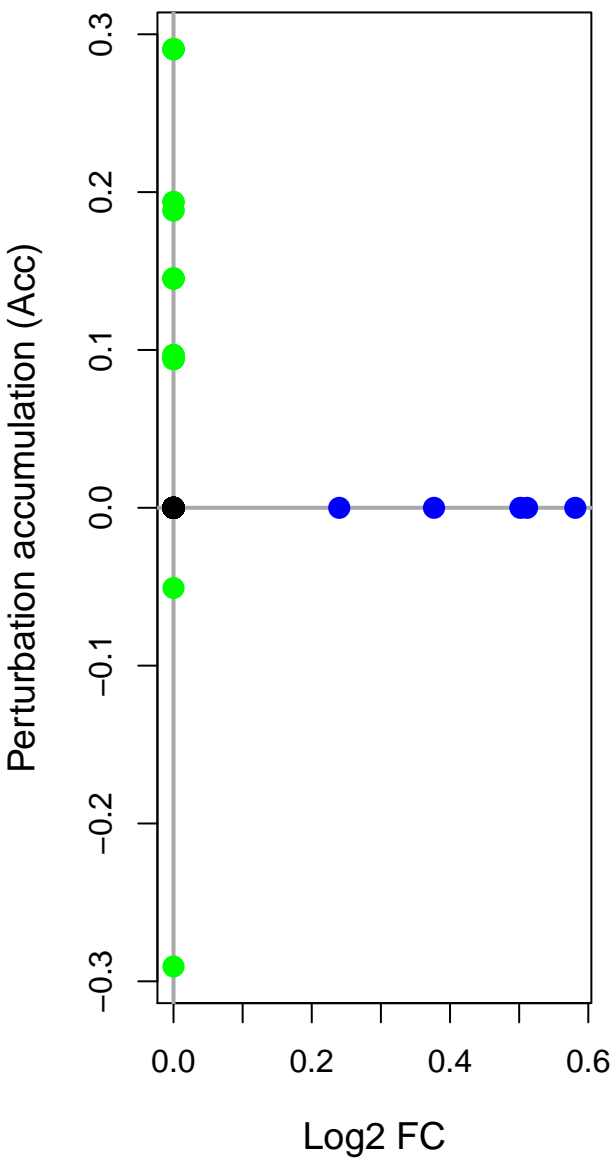
pathway ID=04530



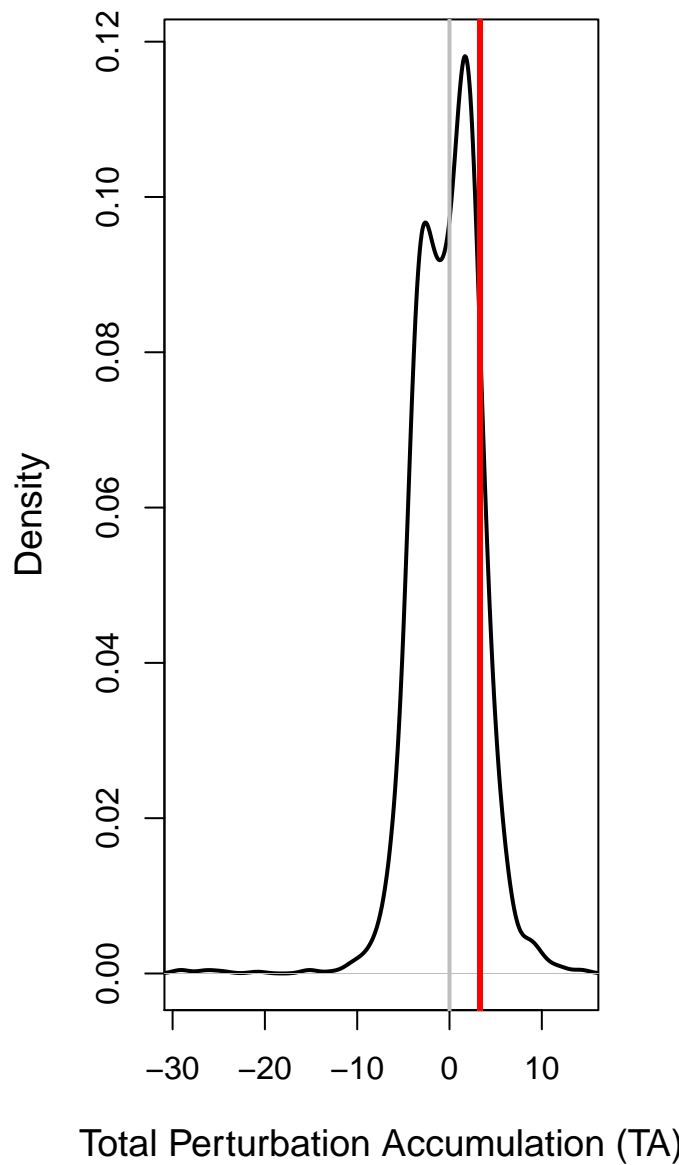
pathway ID=04530 P PERT=0.148



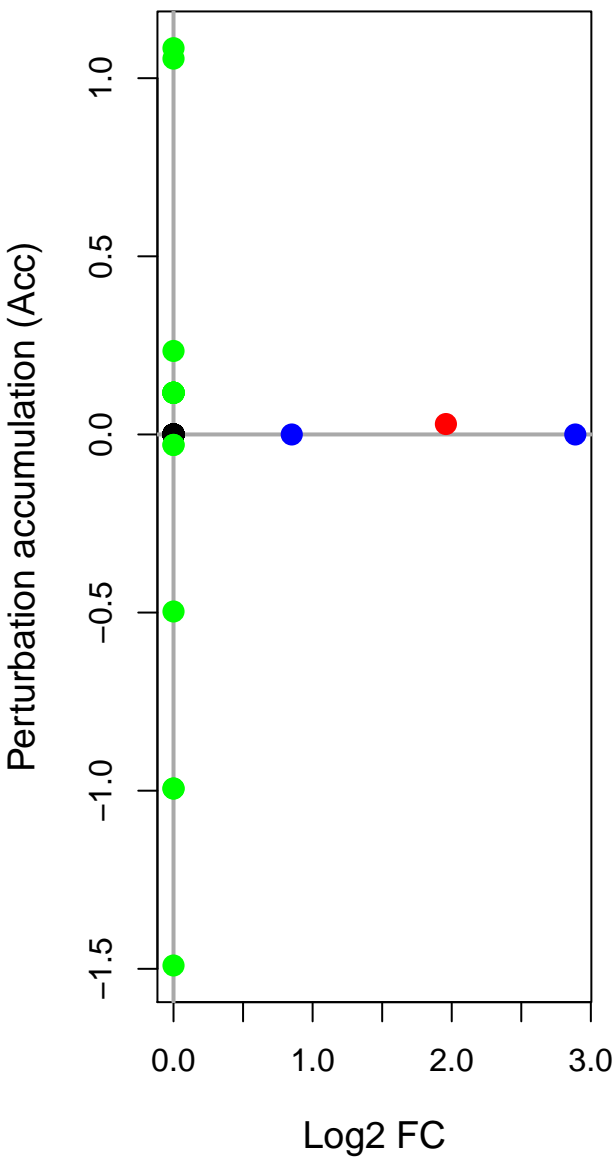
pathway ID=04540



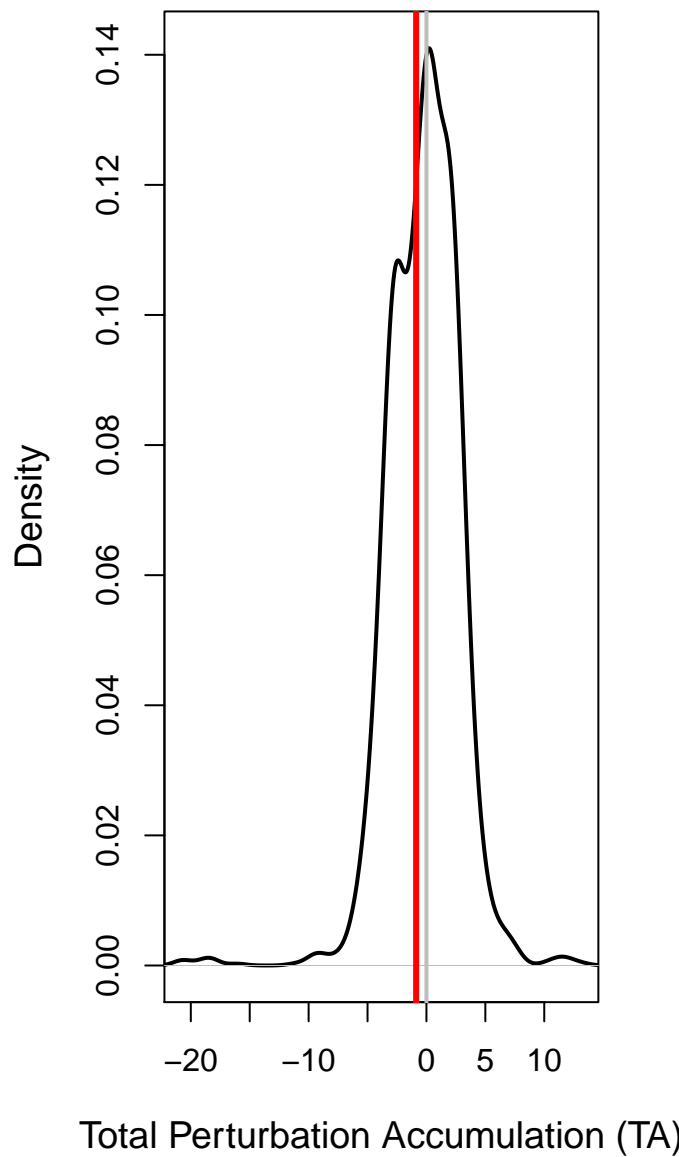
pathway ID=04540 P PERT=0.253



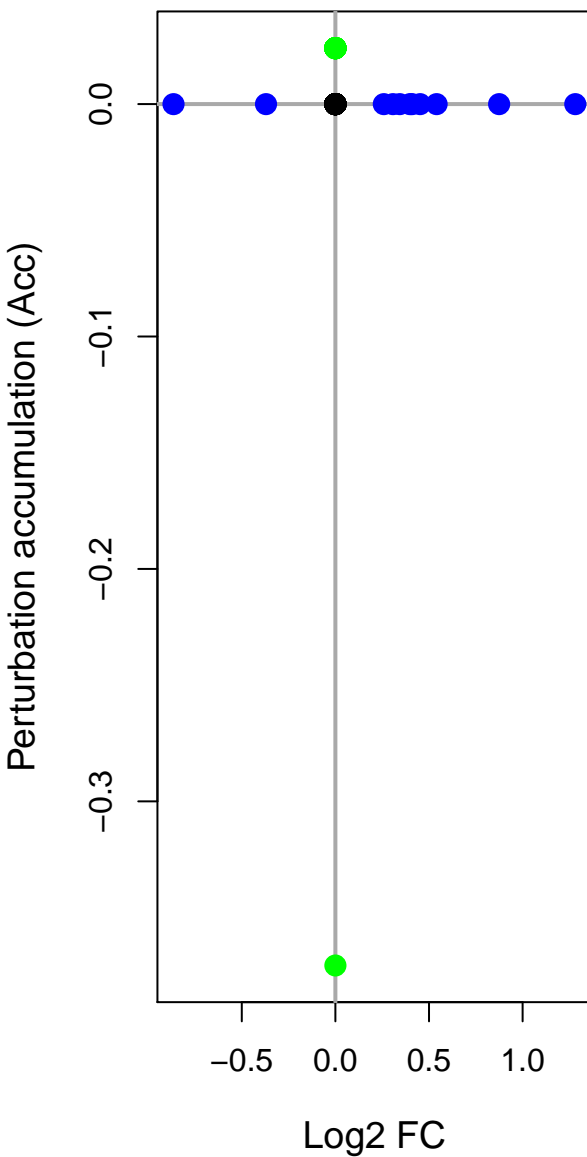
pathway ID=04610



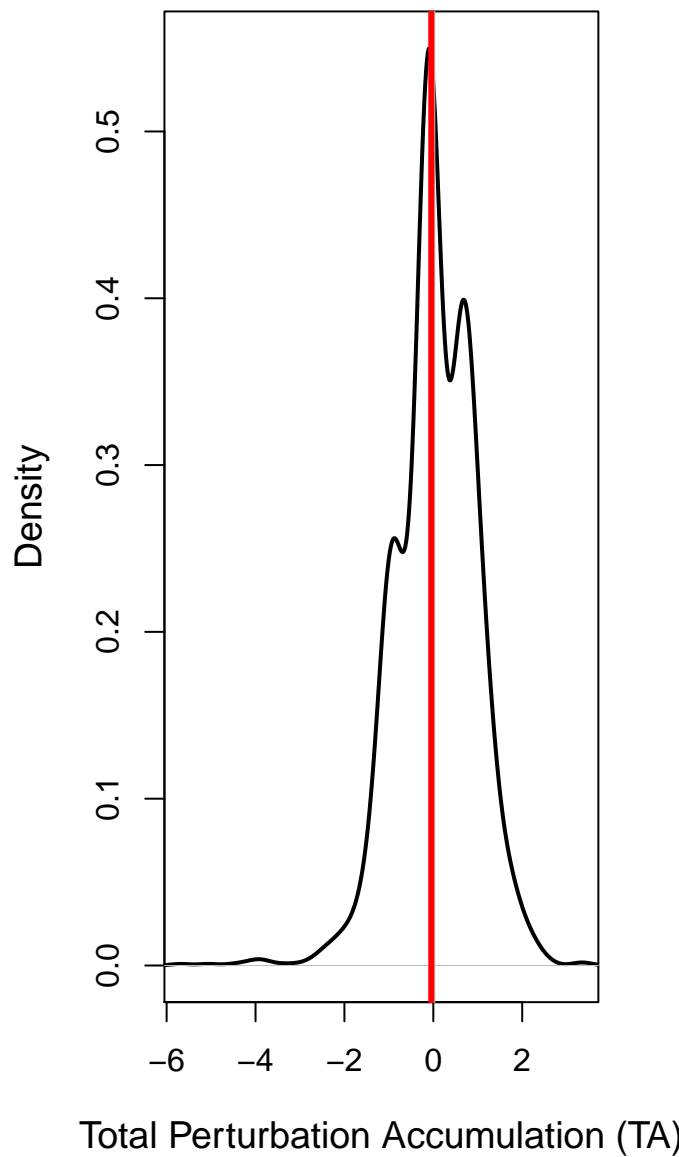
pathway ID=04610 P PERT=0.773



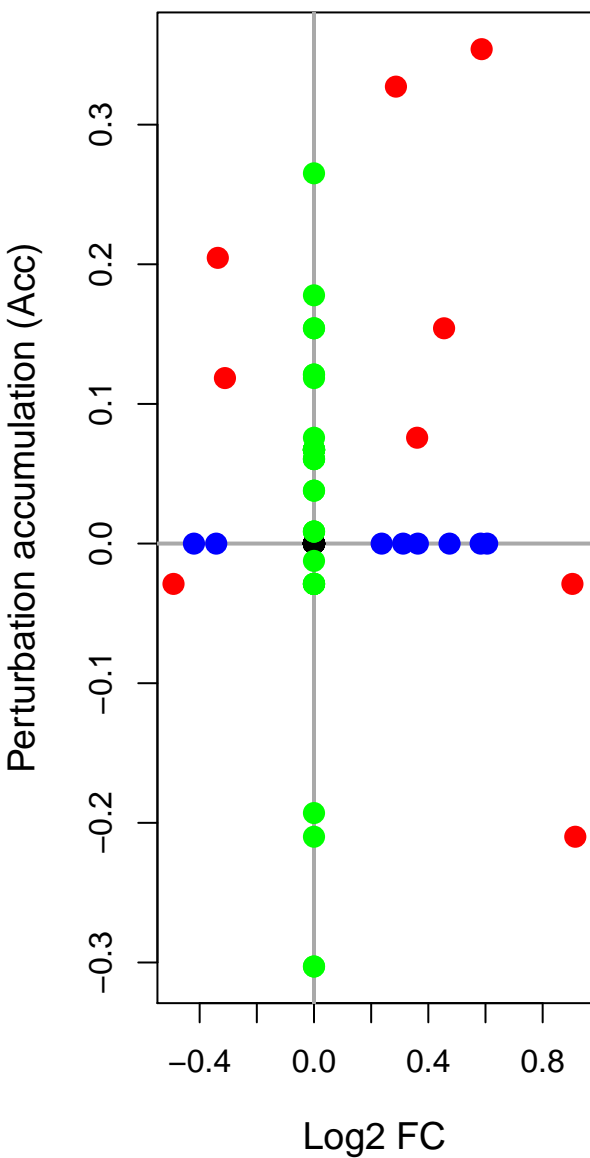
pathway ID=04612



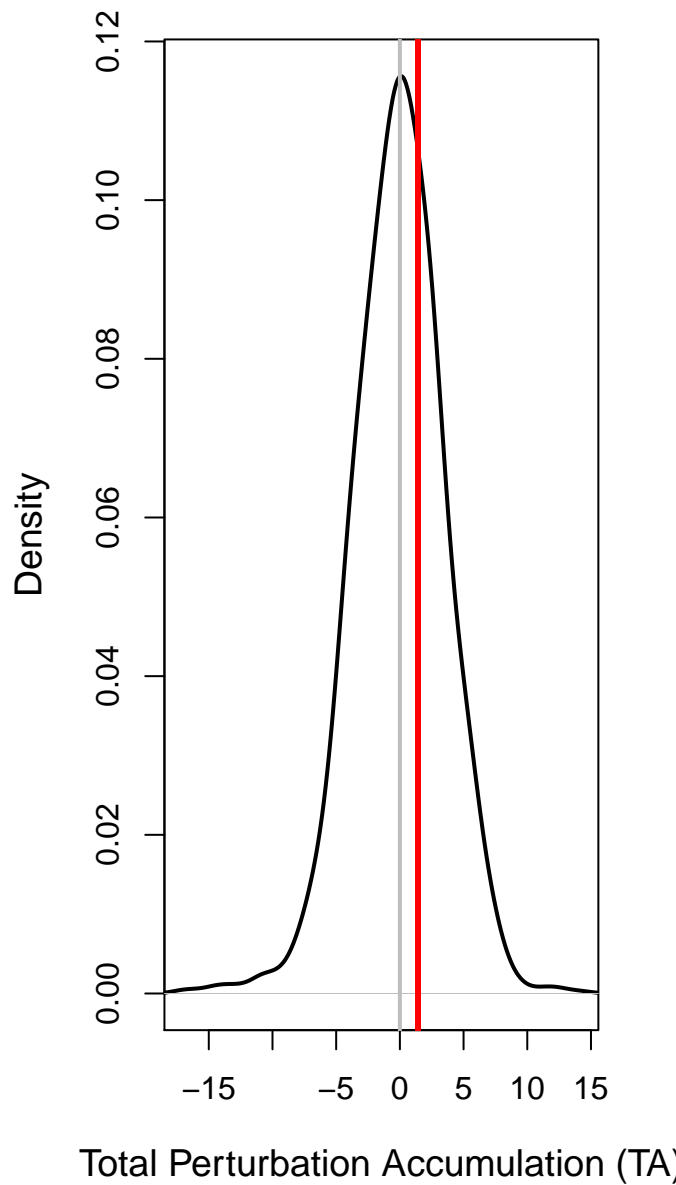
pathway ID=04612 P PERT=0.94



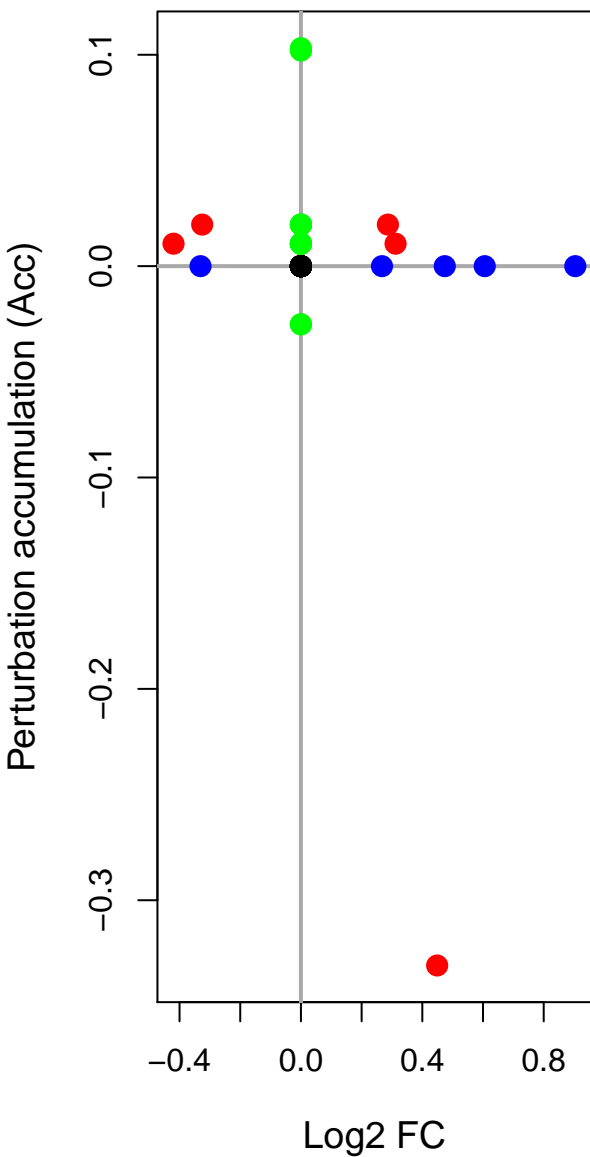
pathway ID=04620



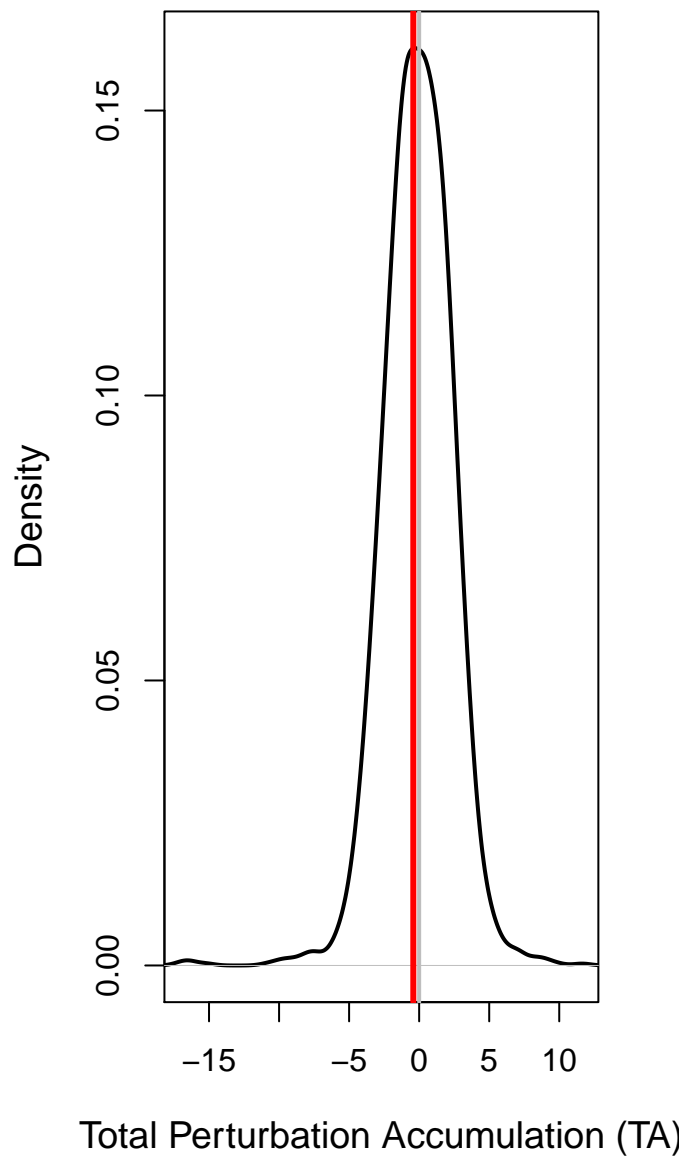
pathway ID=04620 P PERT=0.665



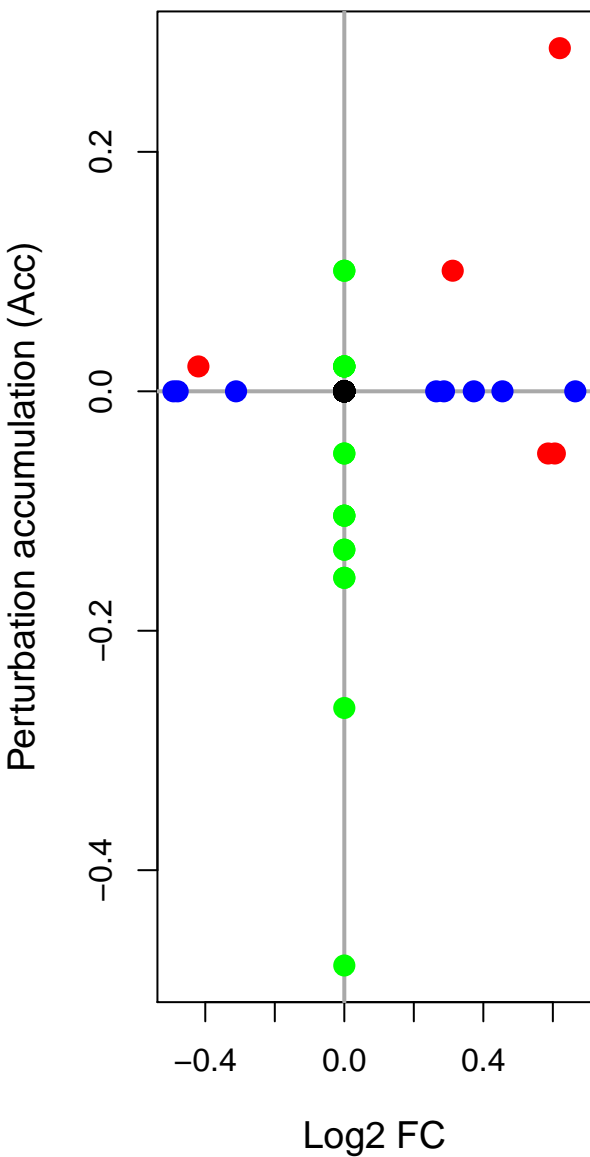
pathway ID=04621



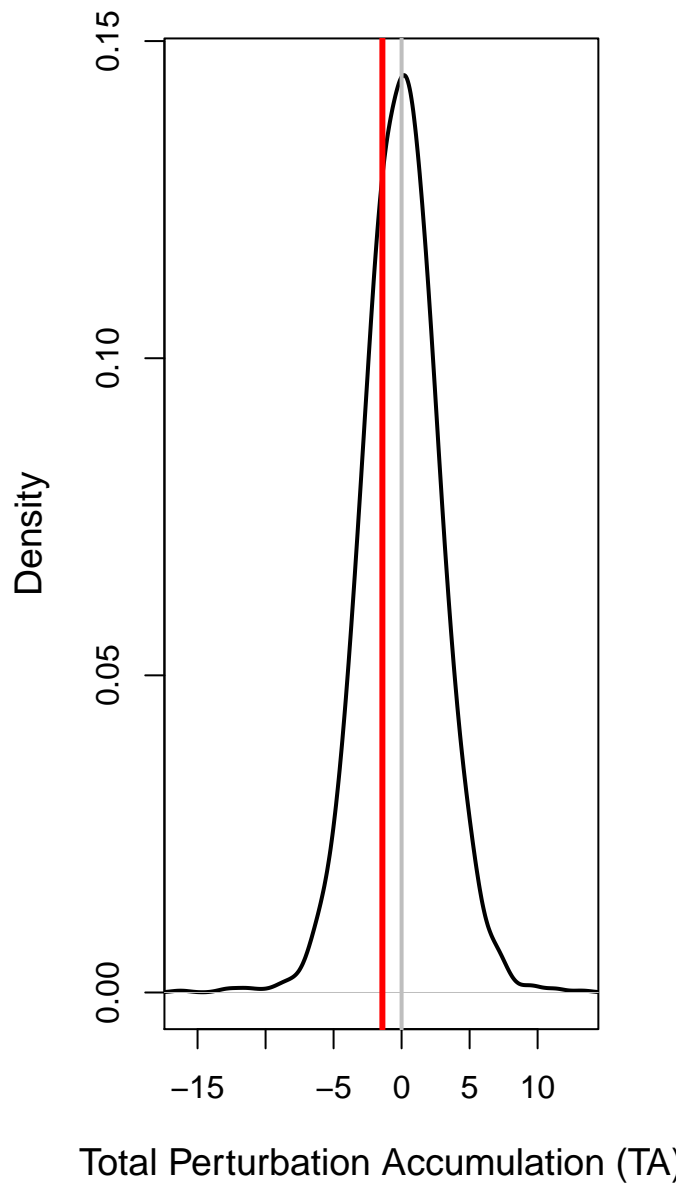
pathway ID=04621 P PERT=0.891



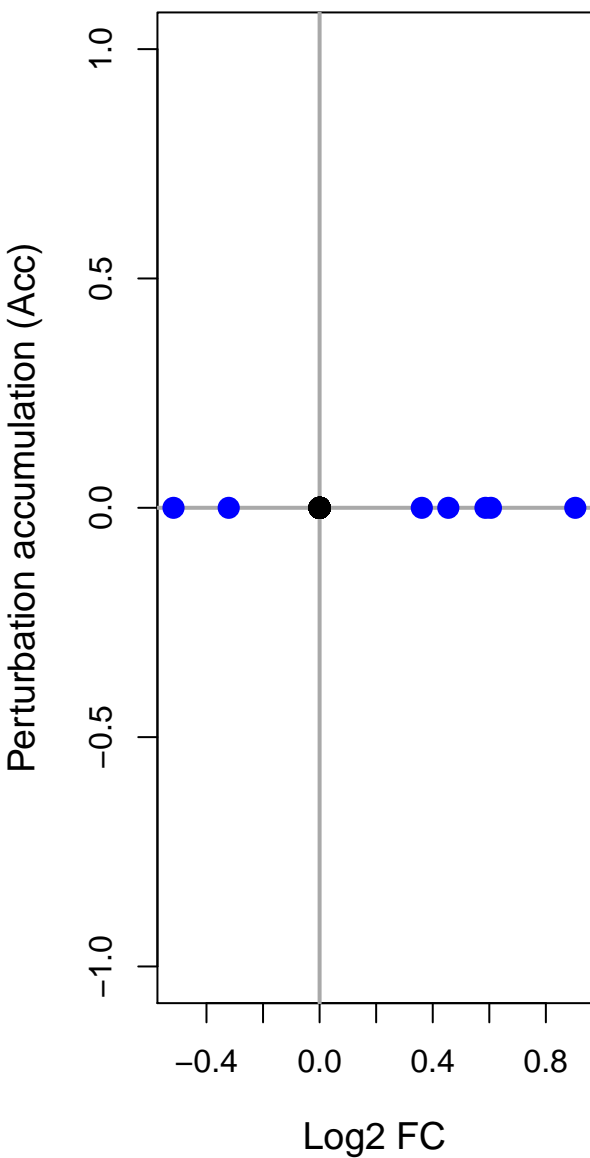
pathway ID=04622



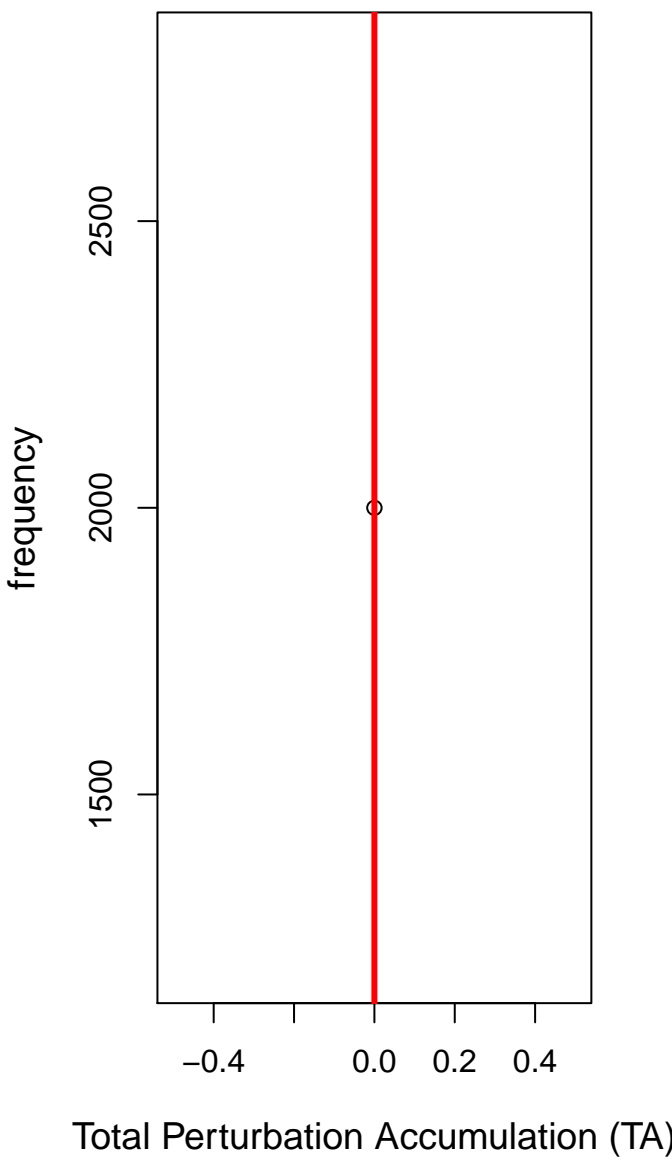
pathway ID=04622 P PERT=0.602



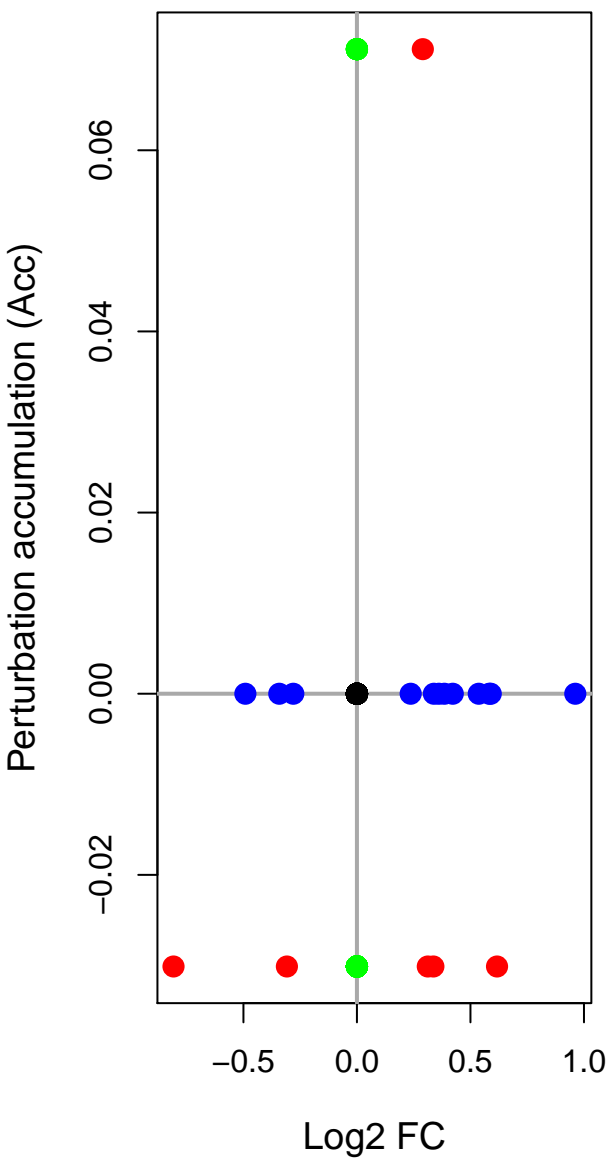
pathway ID=04623



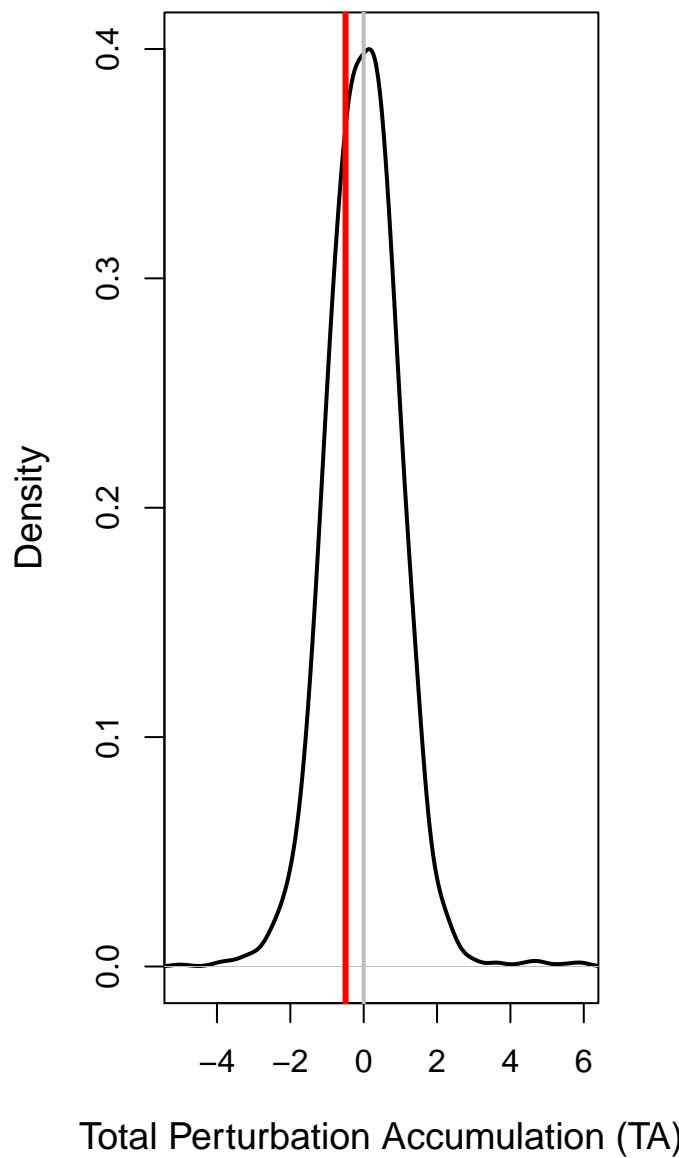
pathway ID=04623 P PERT=NA



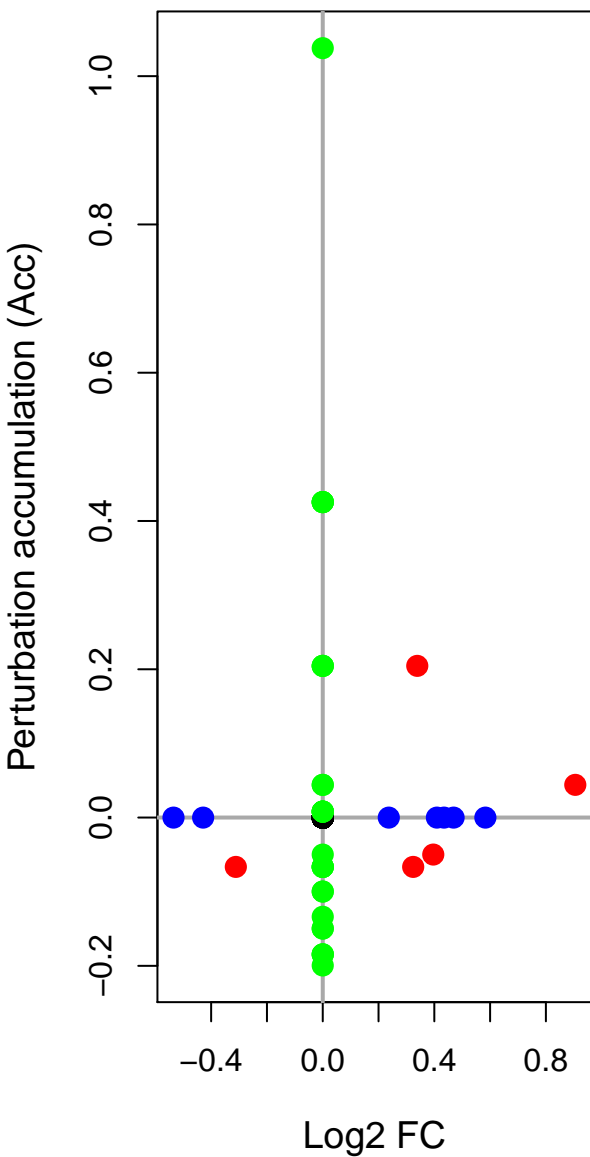
pathway ID=04630



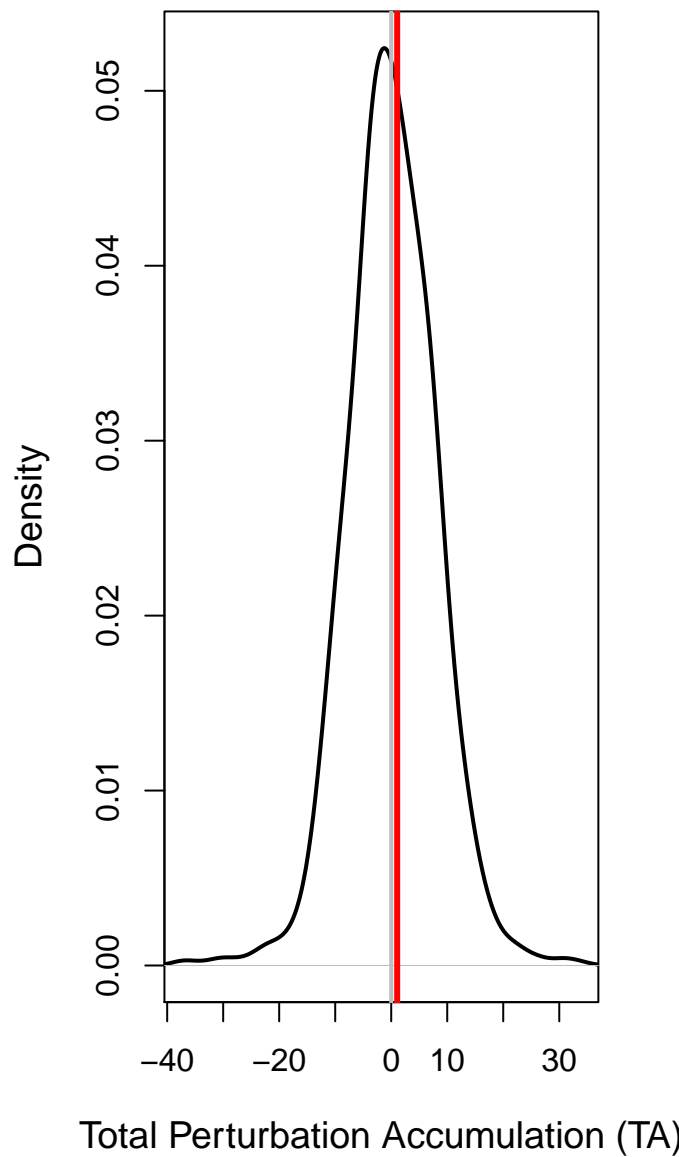
pathway ID=04630 P PERT=0.612



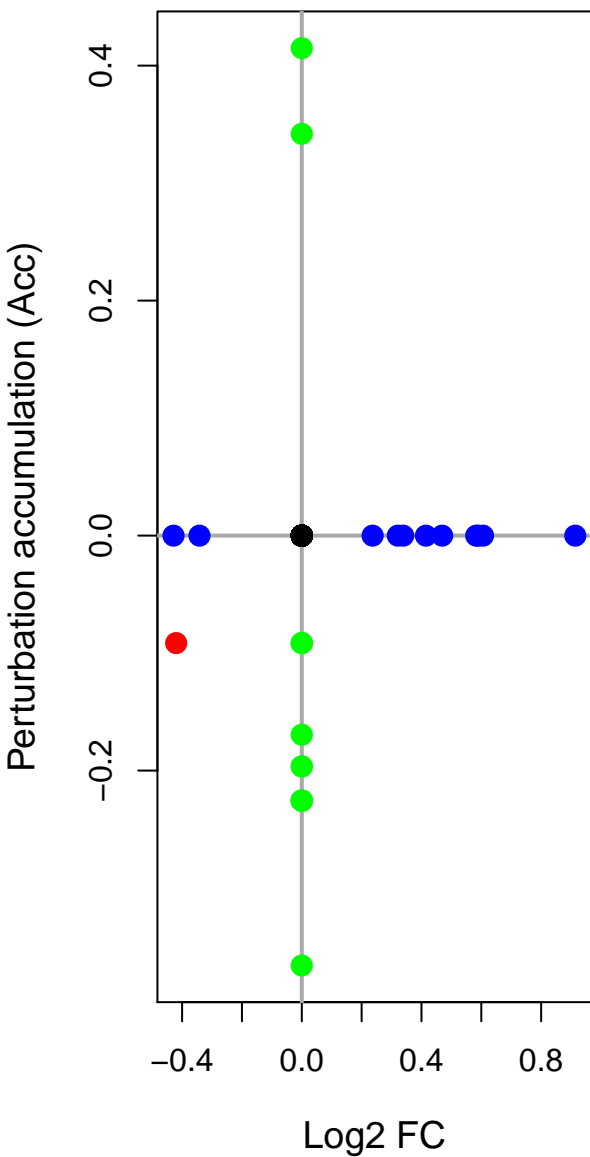
pathway ID=04650



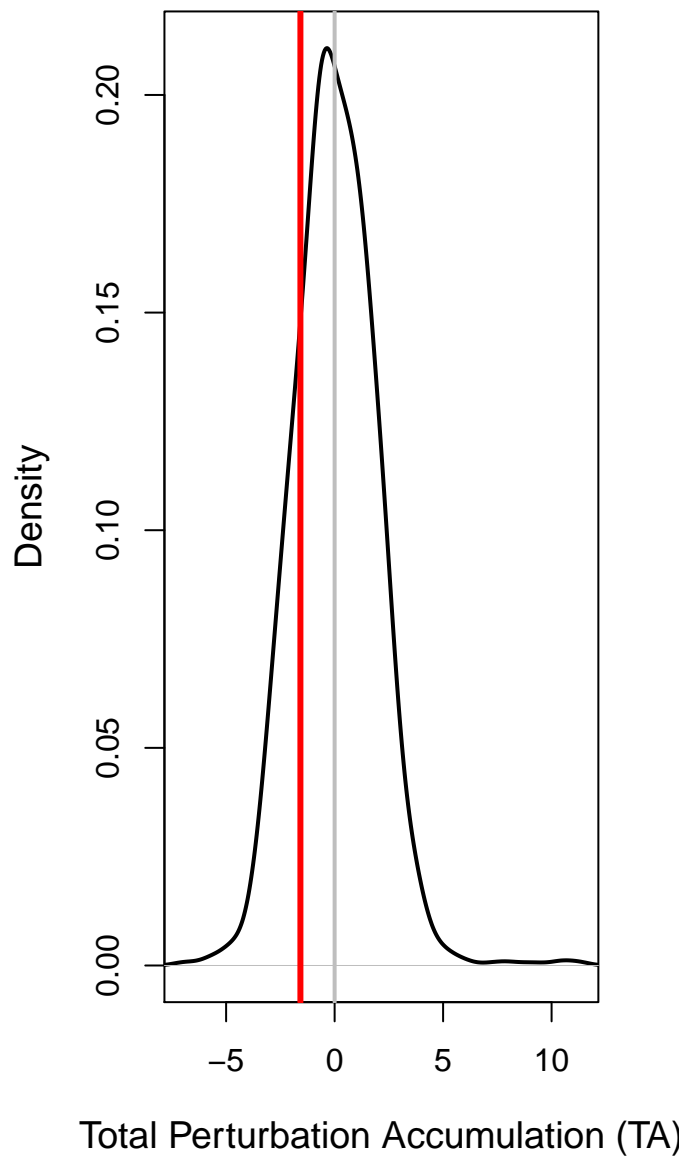
pathway ID=04650 P PERT=0.879



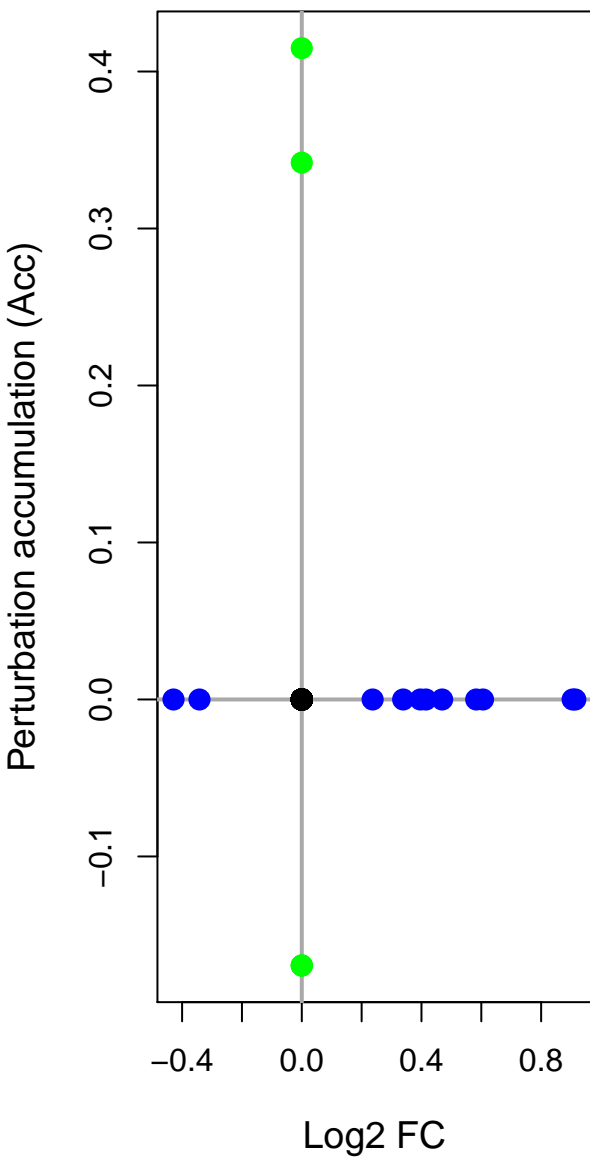
pathway ID=04660



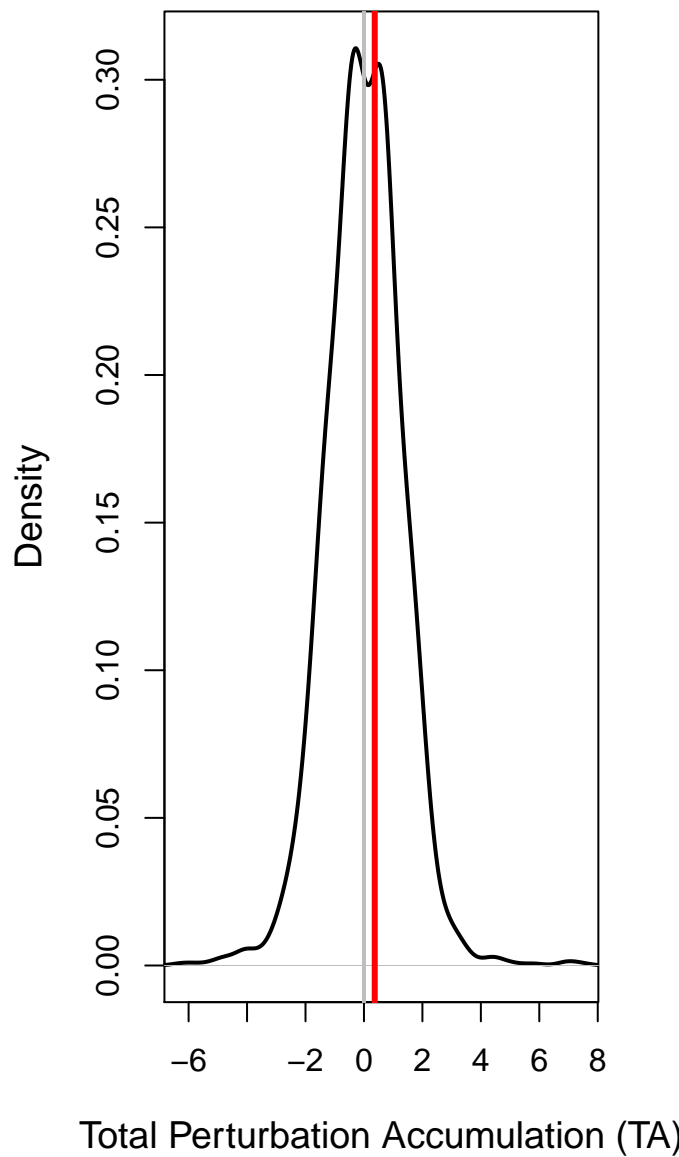
pathway ID=04660 P PERT=0.386



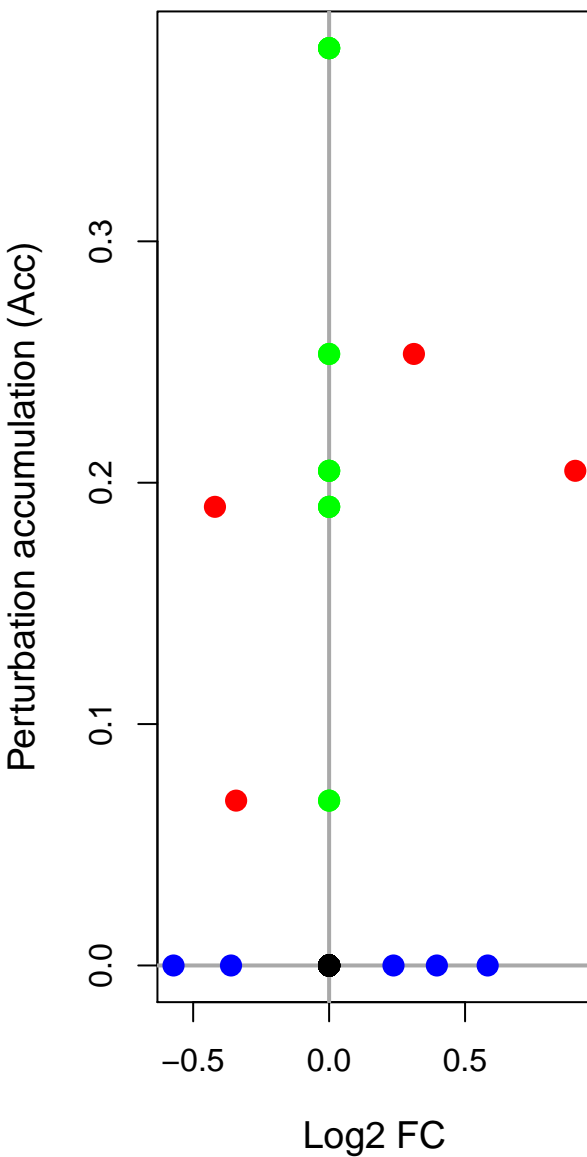
pathway ID=04662



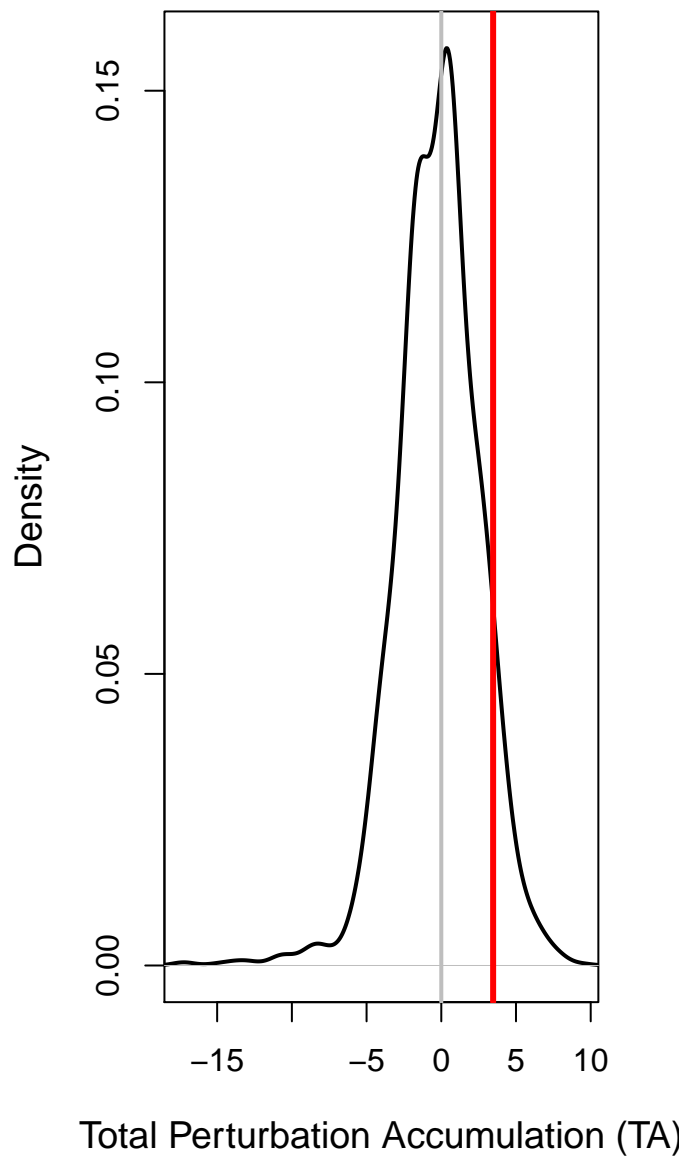
pathway ID=04662 P PERT=0.814



pathway ID=04664

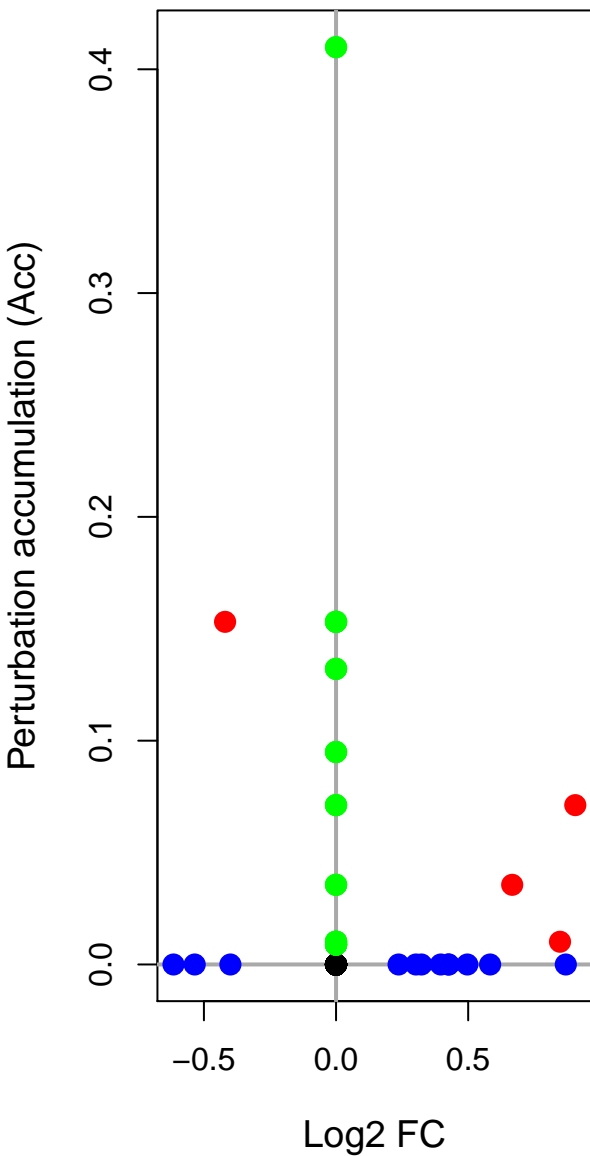


pathway ID=04664 P PERT=0.156

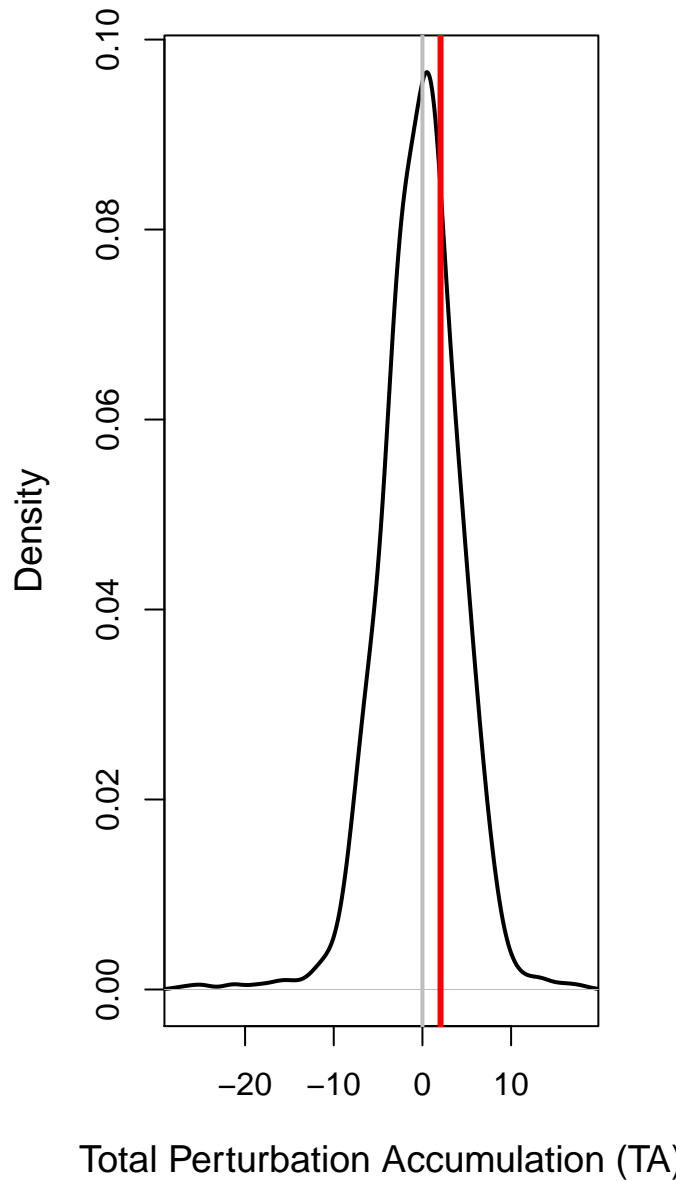


Total Perturbation Accumulation (TA)

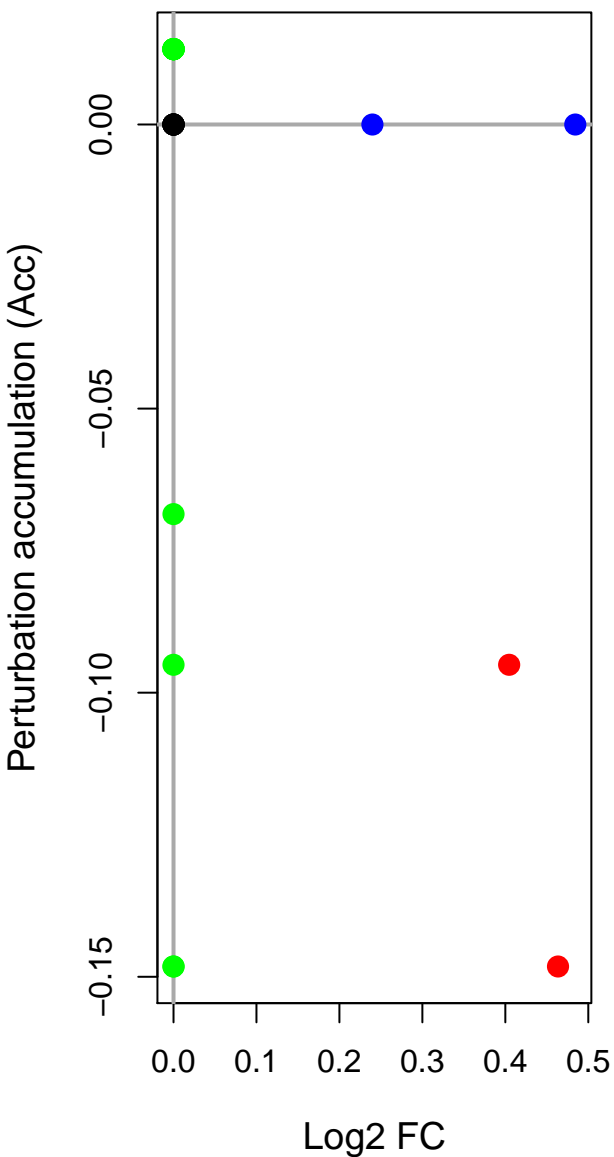
pathway ID=04670



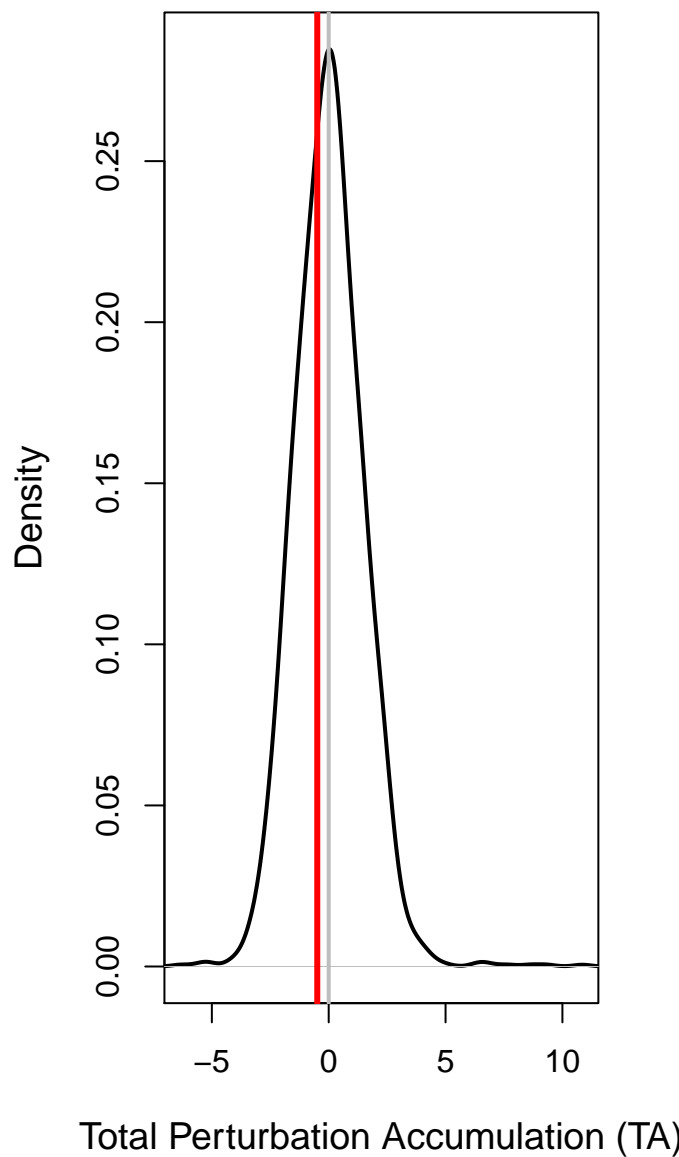
pathway ID=04670 P PERT=0.574



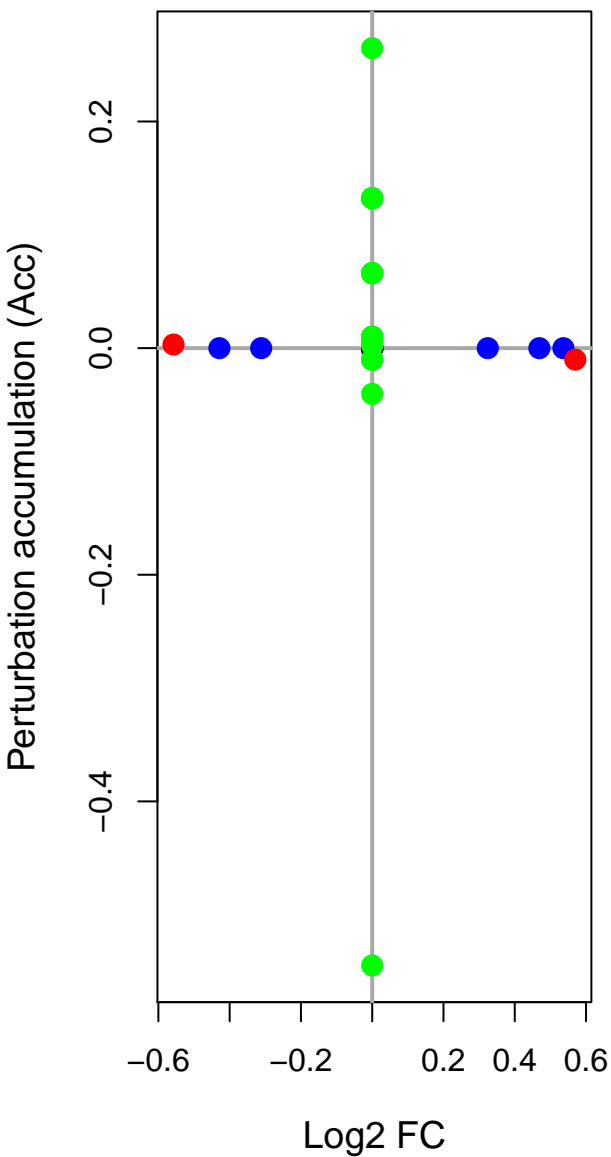
pathway ID=04710



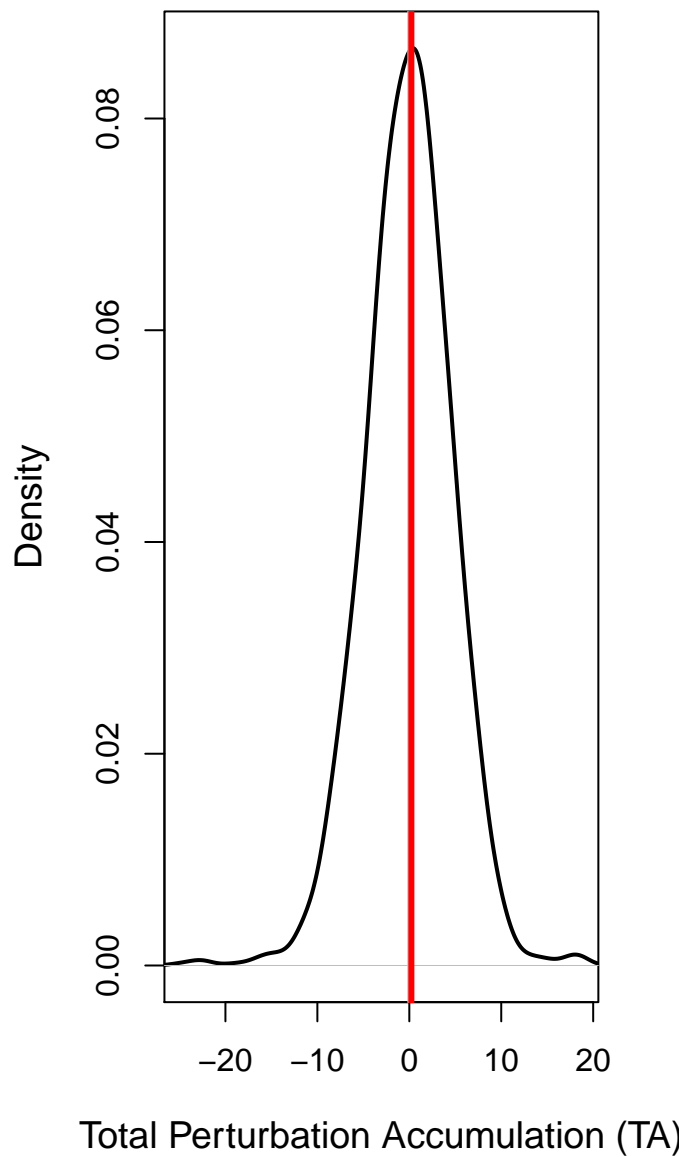
pathway ID=04710 P PERT=0.722



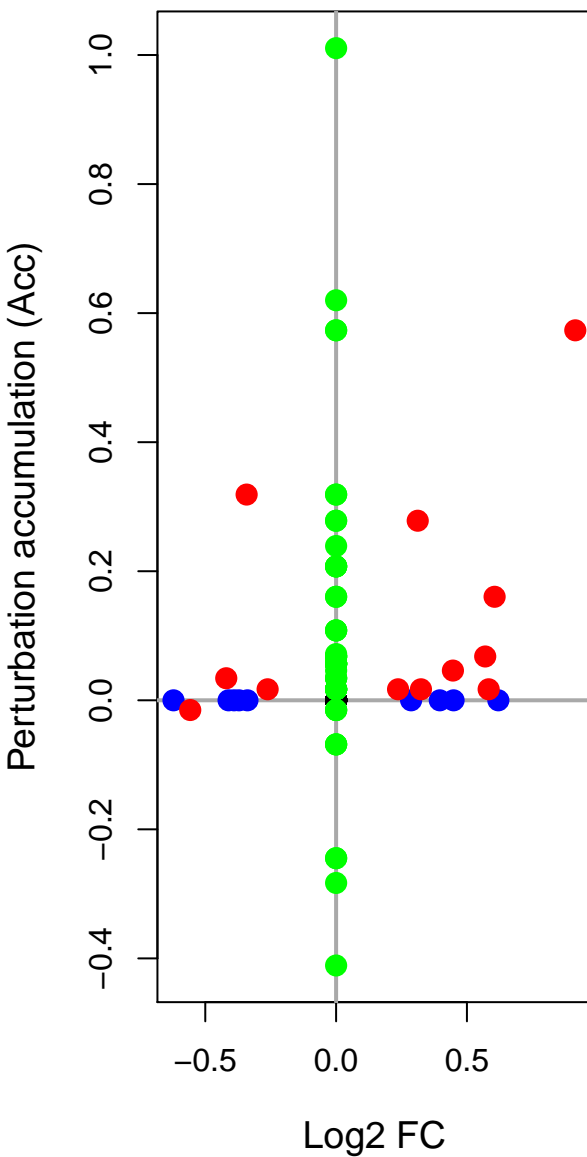
pathway ID=04720



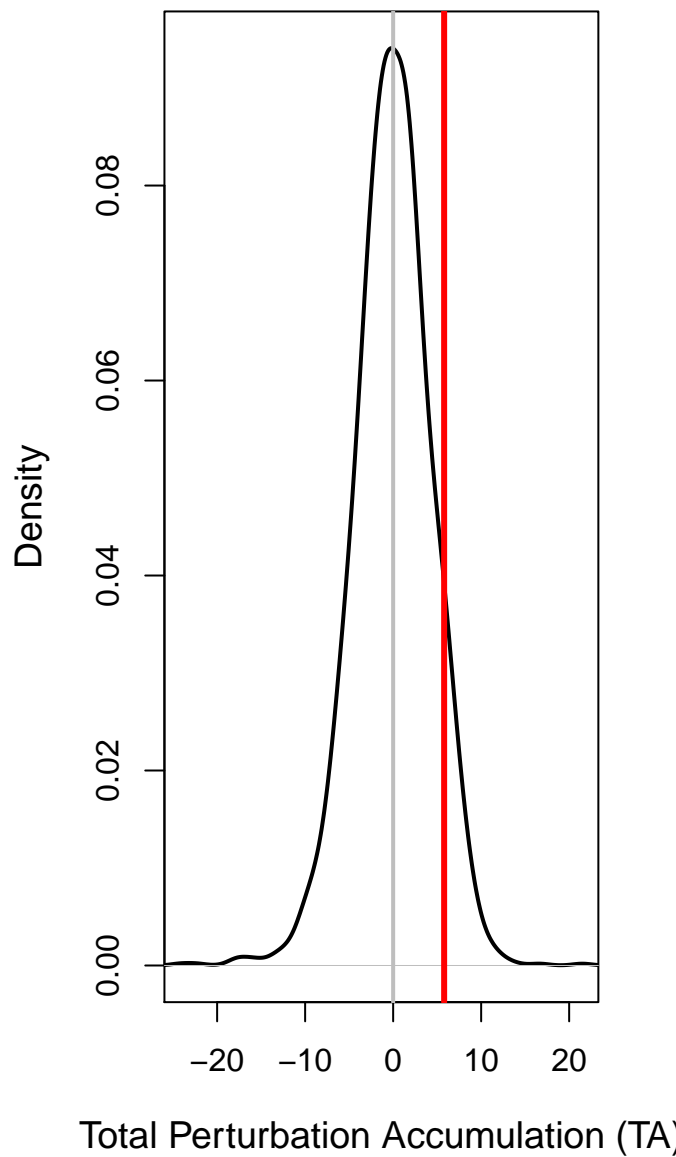
pathway ID=04720 P PERT=0.952



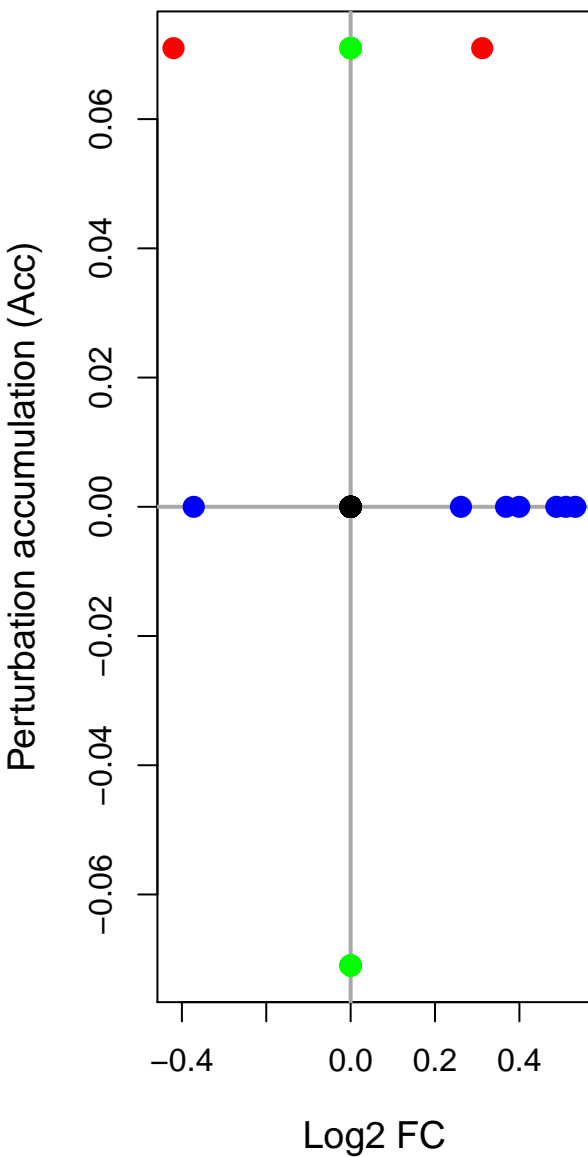
pathway ID=04722



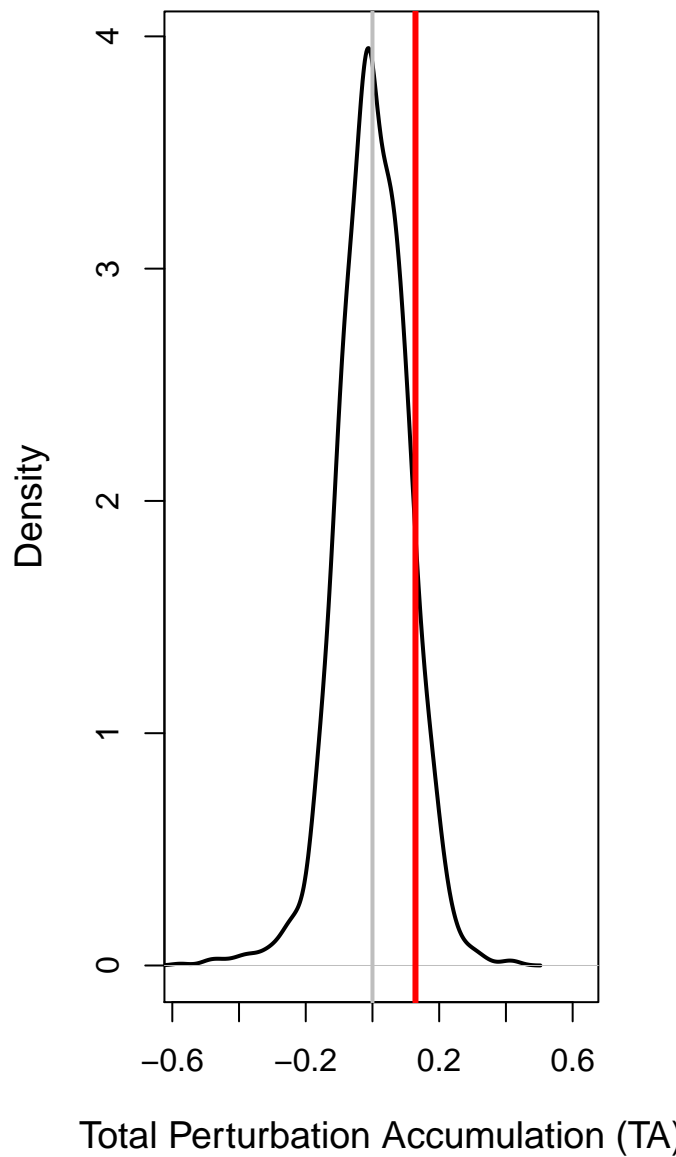
pathway ID=04722 P PERT=0.171



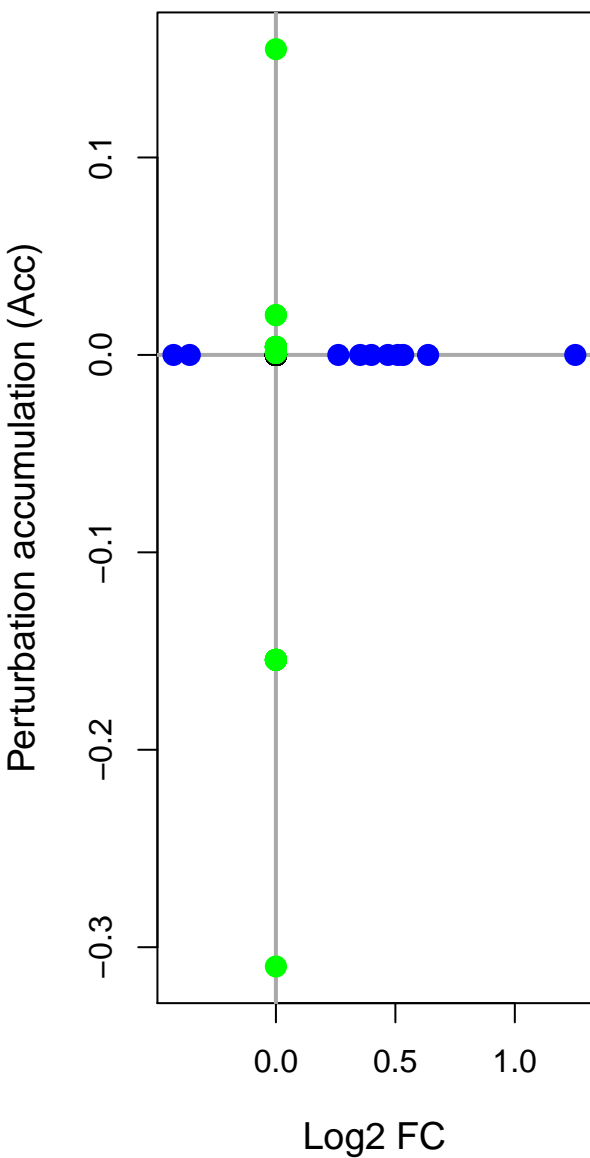
pathway ID=04723



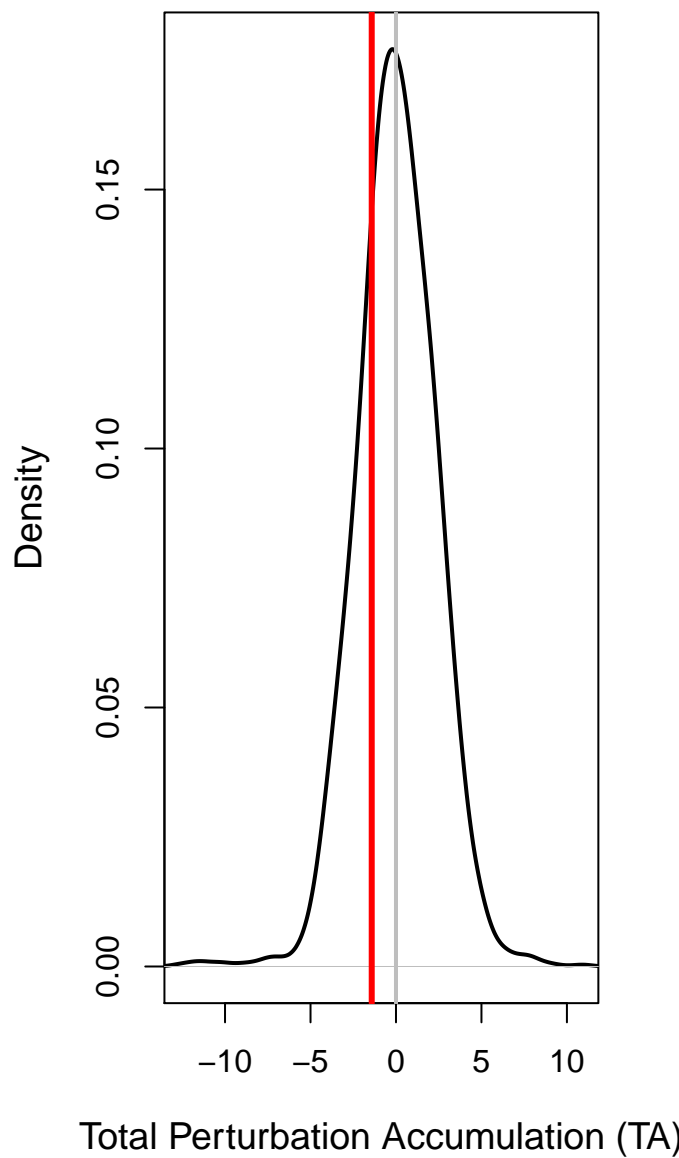
pathway ID=04723 P PERT=0.204



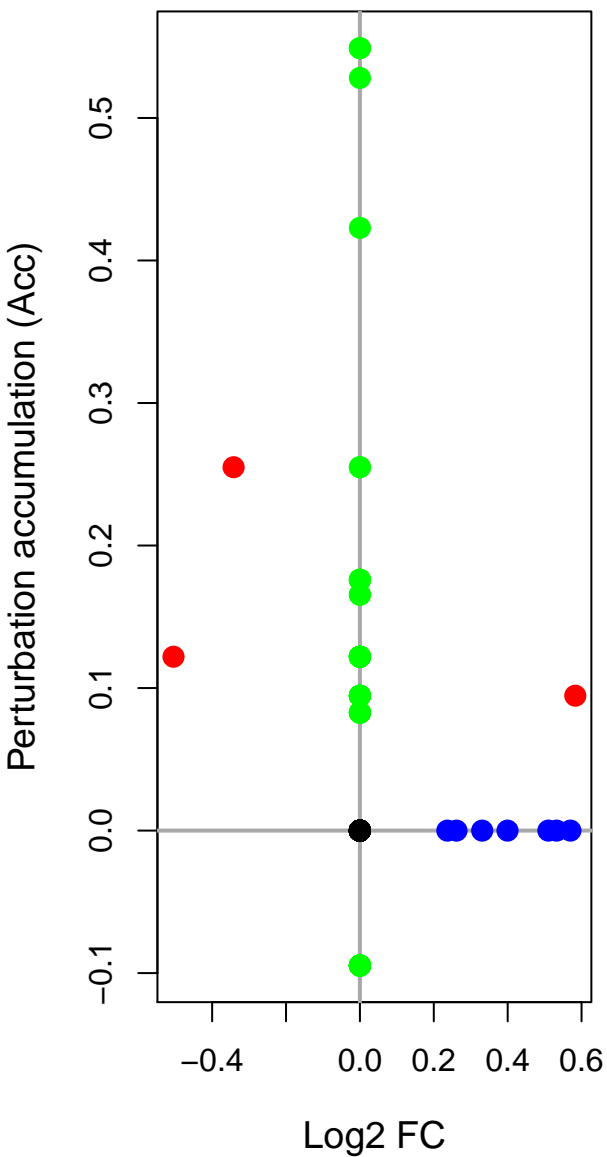
pathway ID=04724



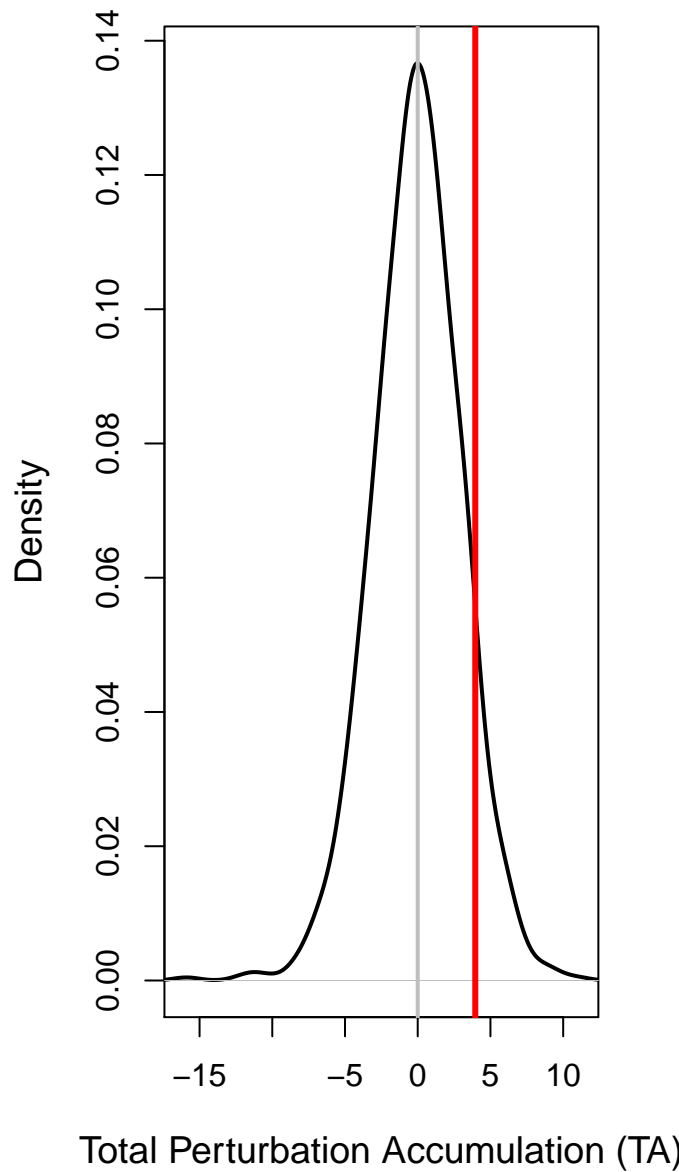
pathway ID=04724 P PERT=0.5



pathway ID=04725

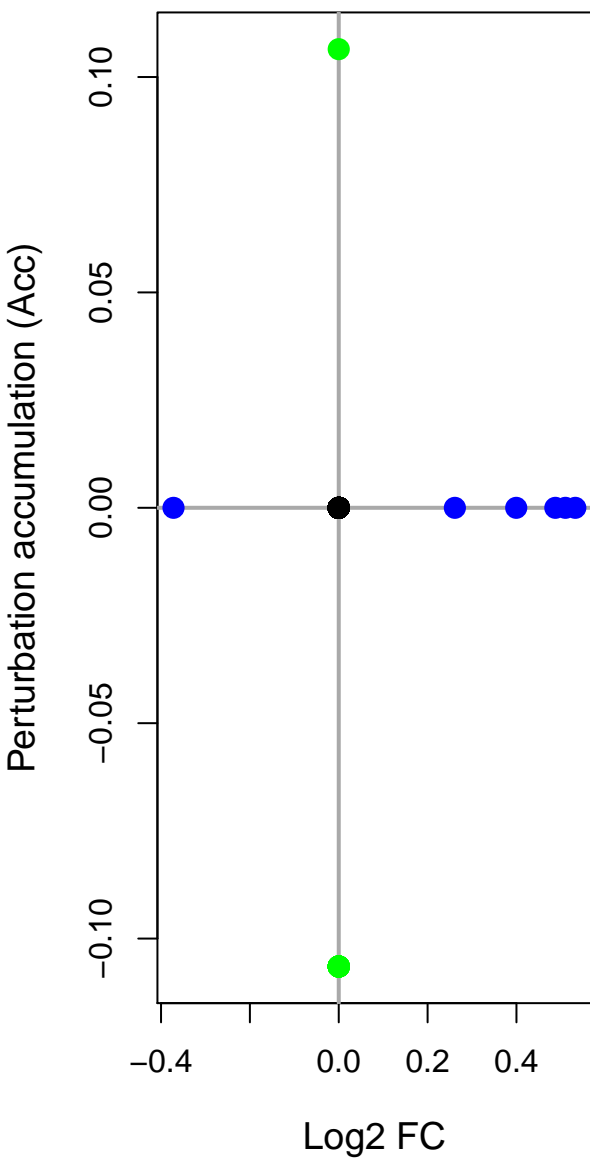


pathway ID=04725 P PERT=0.171

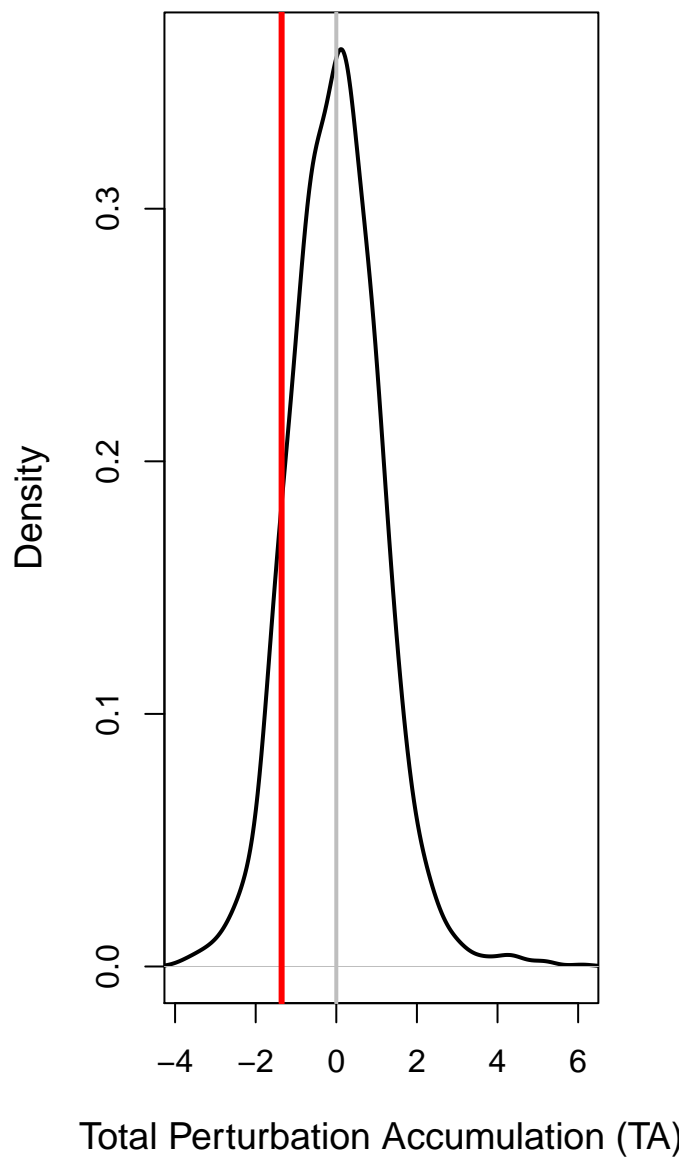


Total Perturbation Accumulation (TA)

pathway ID=04727



pathway ID=04727 P PERT=0.208



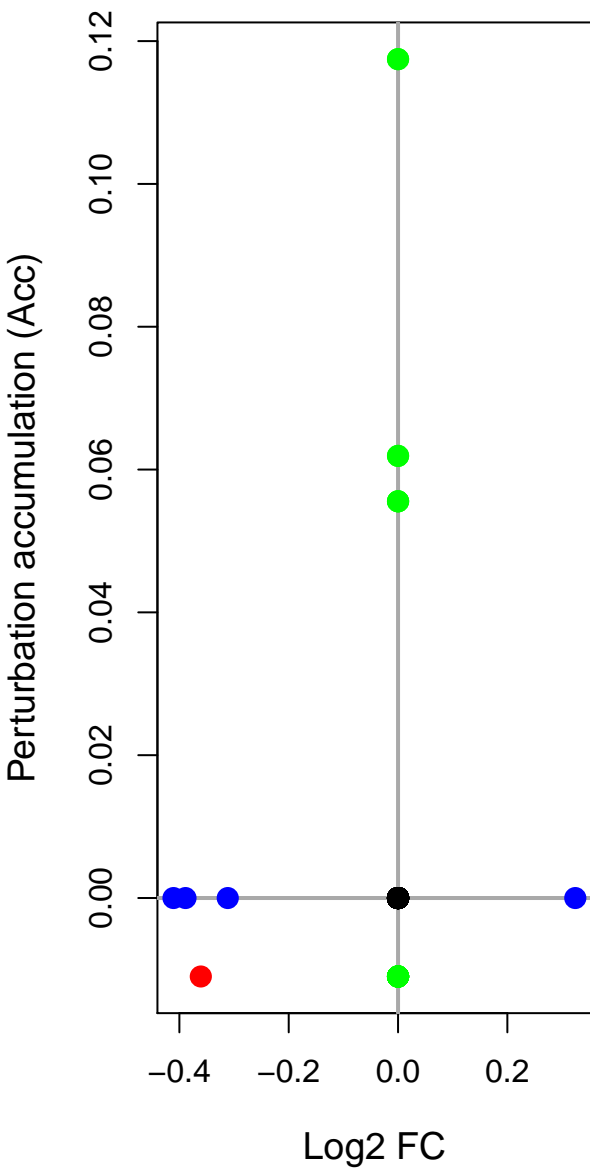
Scatter plot of the first two principal components (PC1 and PC2) for the 1000 Genomes Project populations. The x-axis is PC1 (ranging from -1.5 to 0.5) and the y-axis is PC2 (ranging from -1.5 to 1.5). Populations are color-coded: European (blue), African (red), and East Asian (green). A black dot at the origin (0,0) represents the global mean. Grey lines indicate the axes.

Density

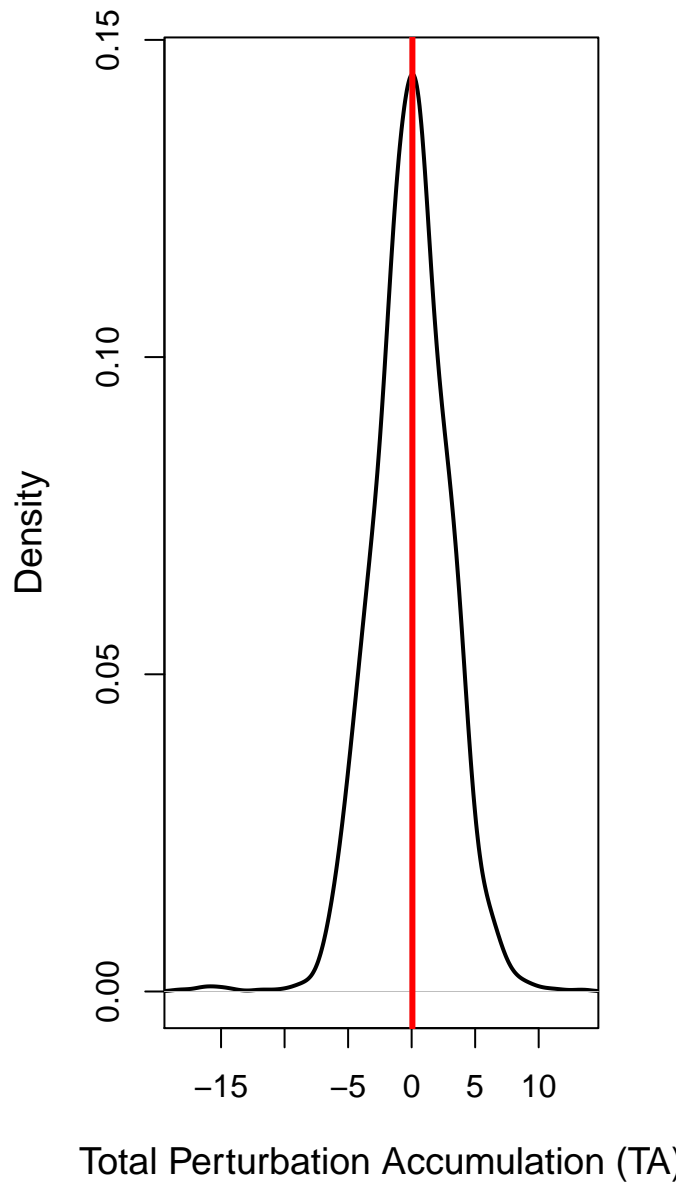
A plot of a Gaussian distribution. The x-axis ranges from -10 to 10 with major ticks at -10, -5, 0, and 5. The y-axis ranges from 0.00 to 0.25 with major ticks at 0.00, 0.05, 0.10, 0.15, 0.20, and 0.25. A black curve represents the probability density function, which is centered at 0. A vertical red line is drawn at $x = 0$, passing through the peak of the curve. The peak of the curve reaches a height of approximately 0.26 on the y-axis.

Total Perturbation Accumulation (TA)

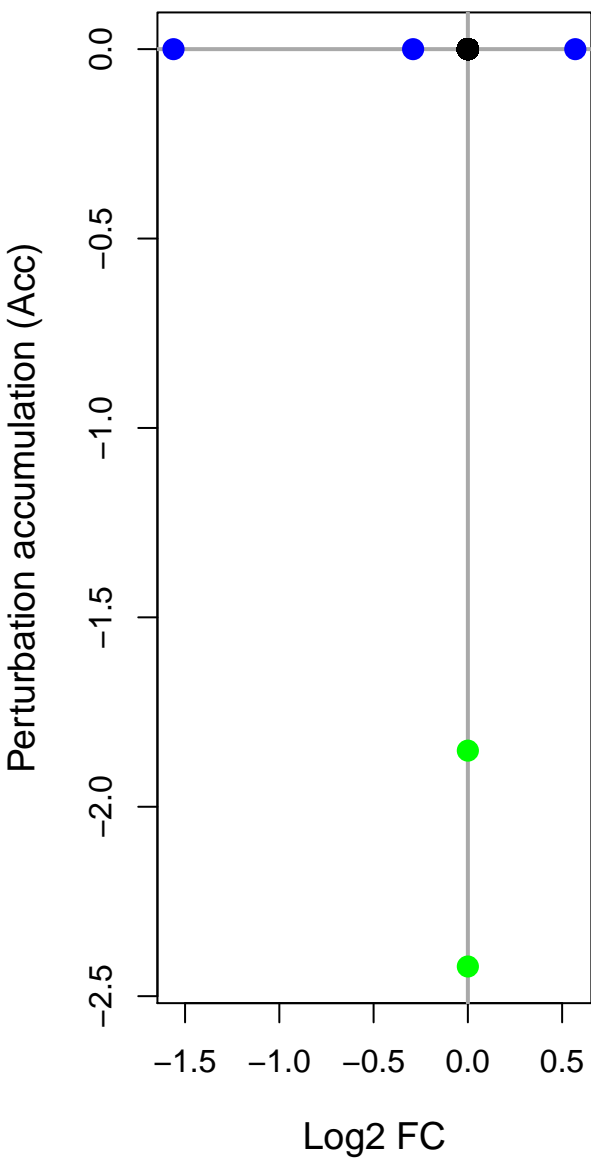
pathway ID=04730



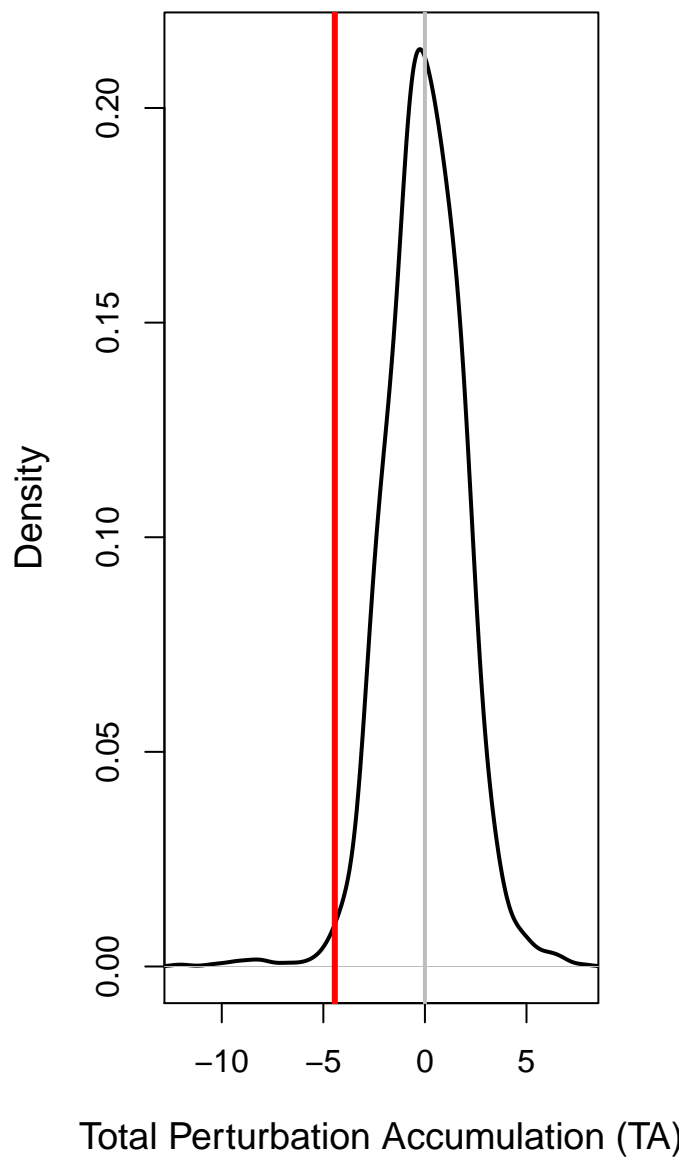
pathway ID=04730 P PERT=0.981



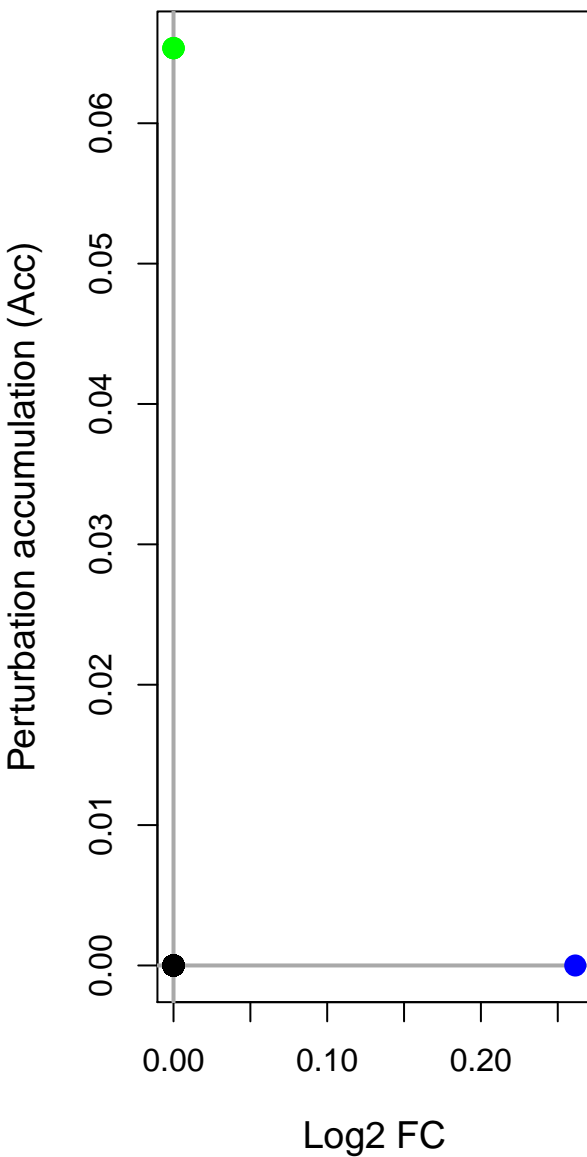
pathway ID=04740



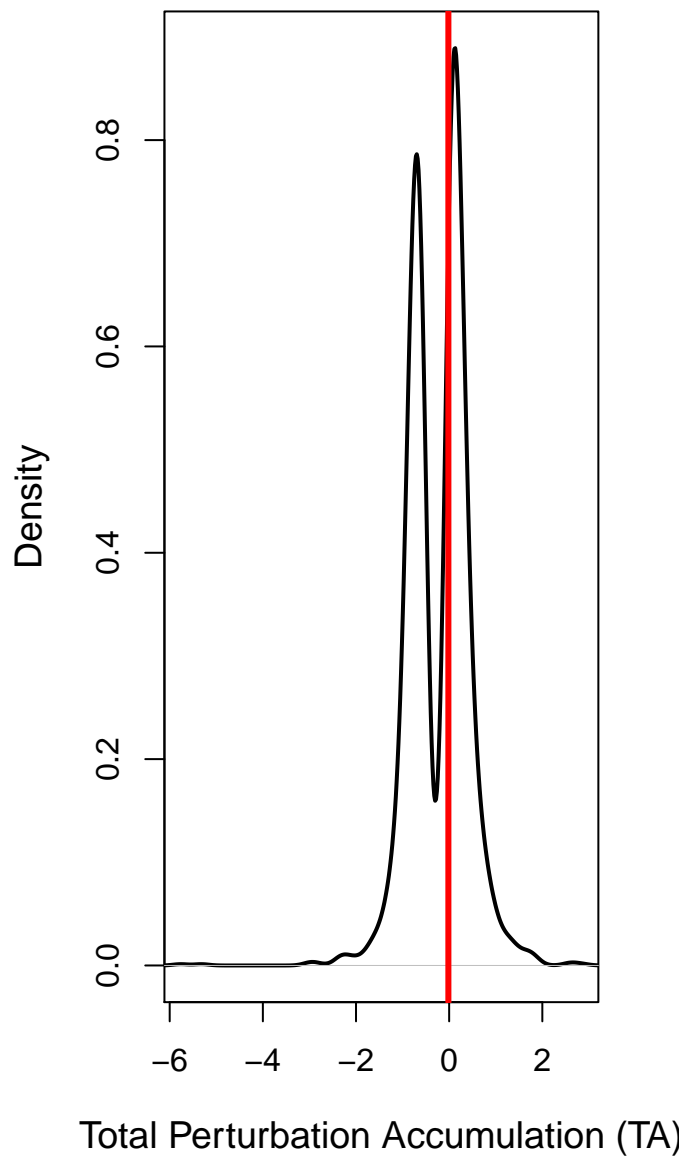
pathway ID=04740 P PERT=0.021



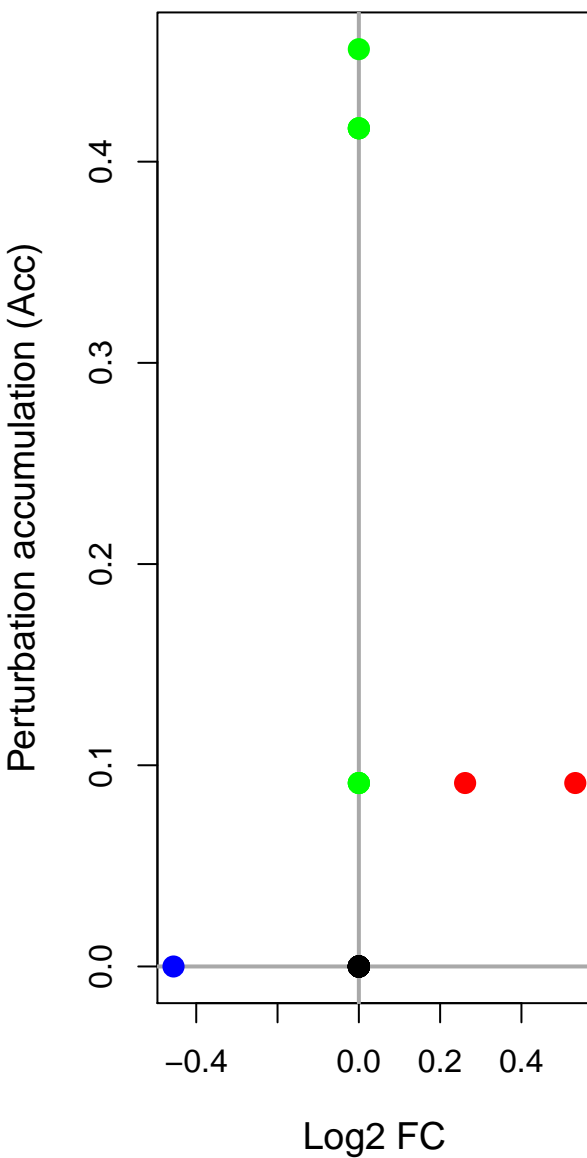
pathway ID=04742



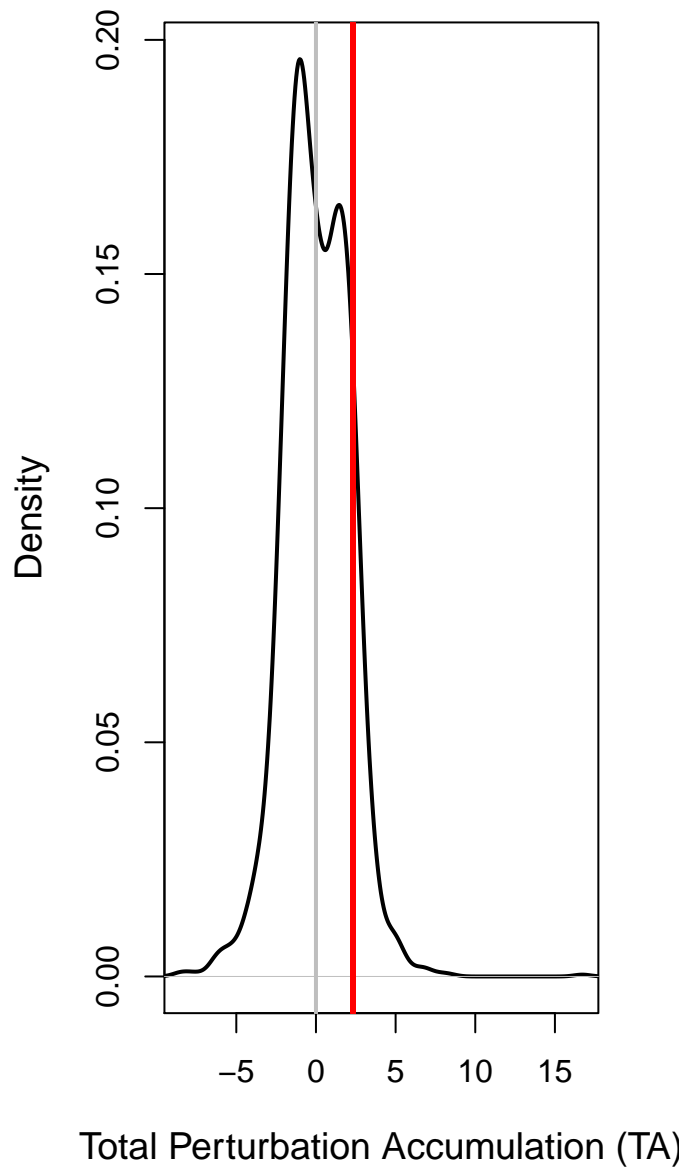
pathway ID=04742 P PERT=0.97



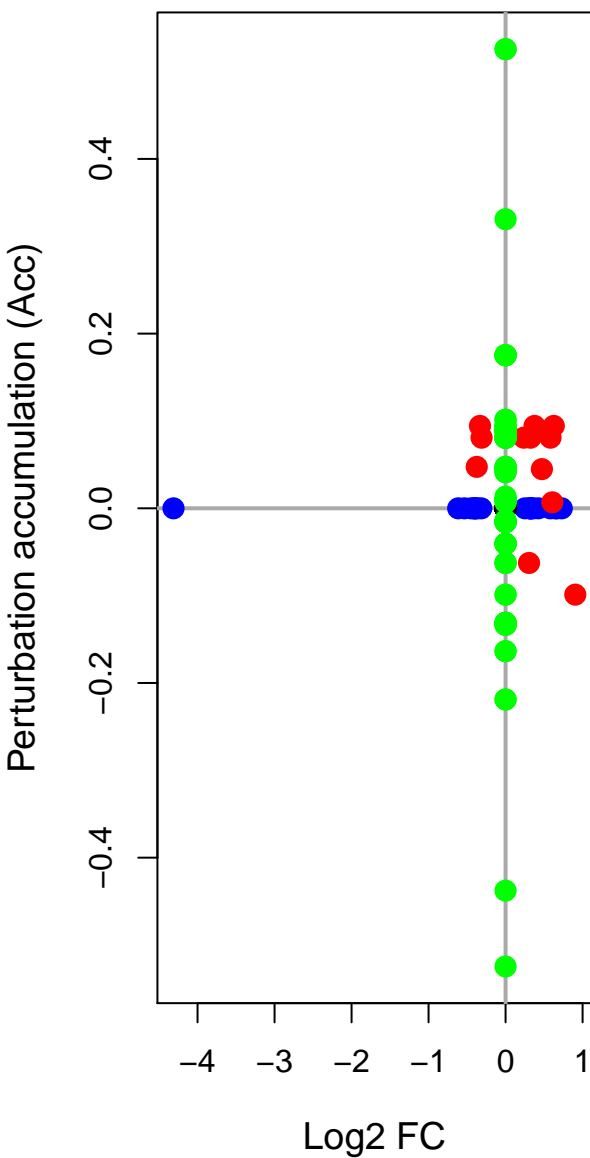
pathway ID=04744



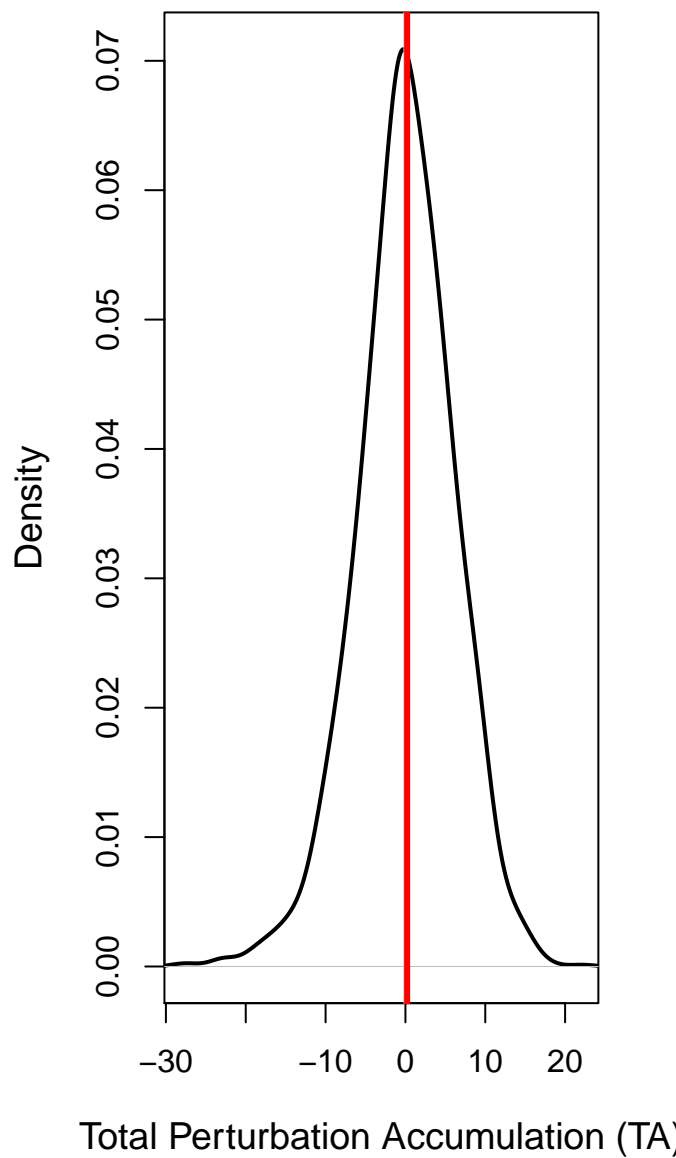
pathway ID=04744 P PERT=0.234



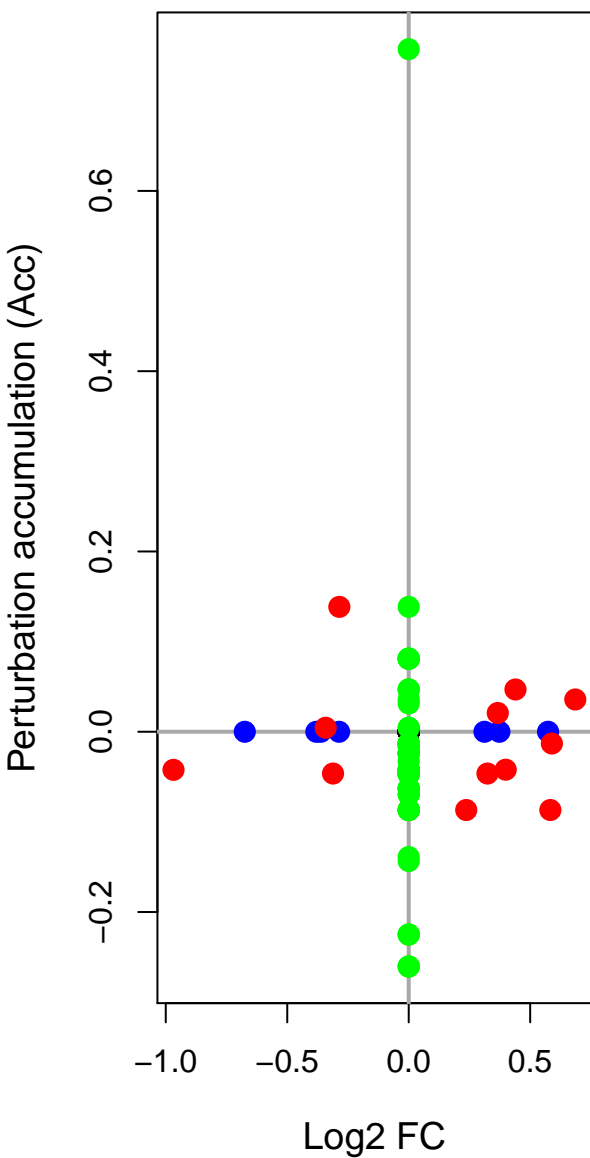
pathway ID=04810



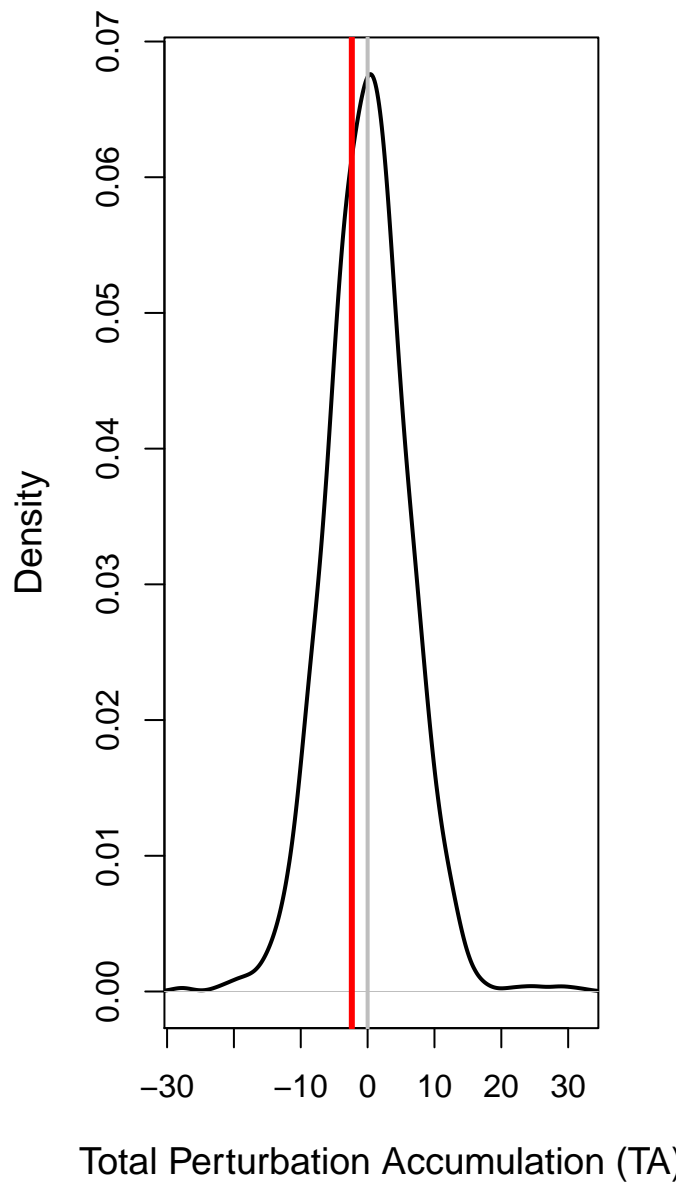
pathway ID=04810 P PERT=0.973



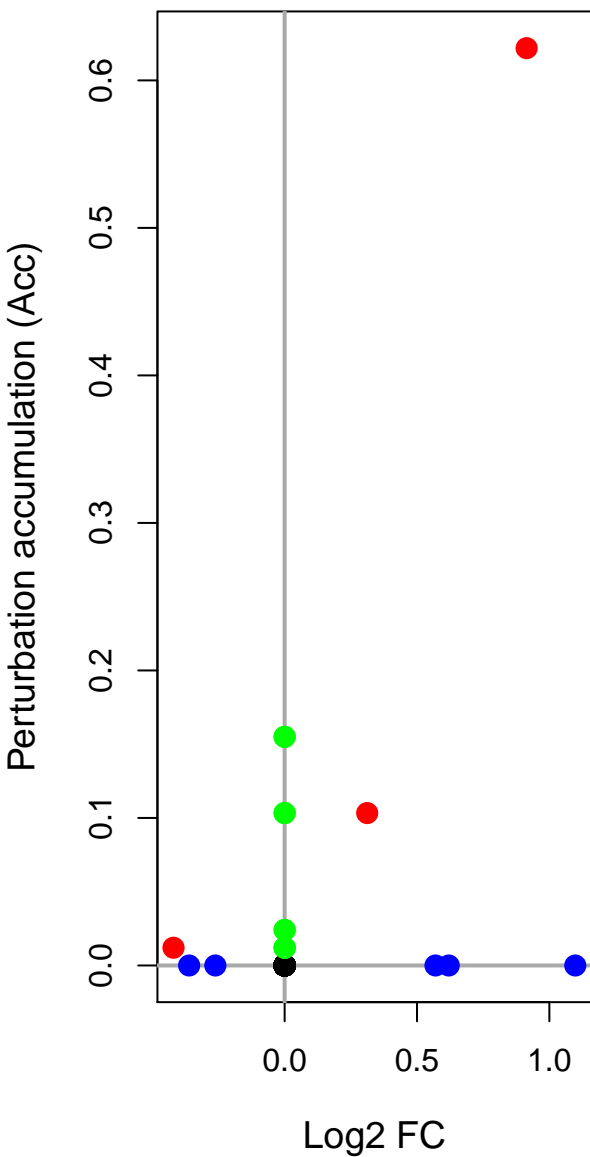
pathway ID=04910



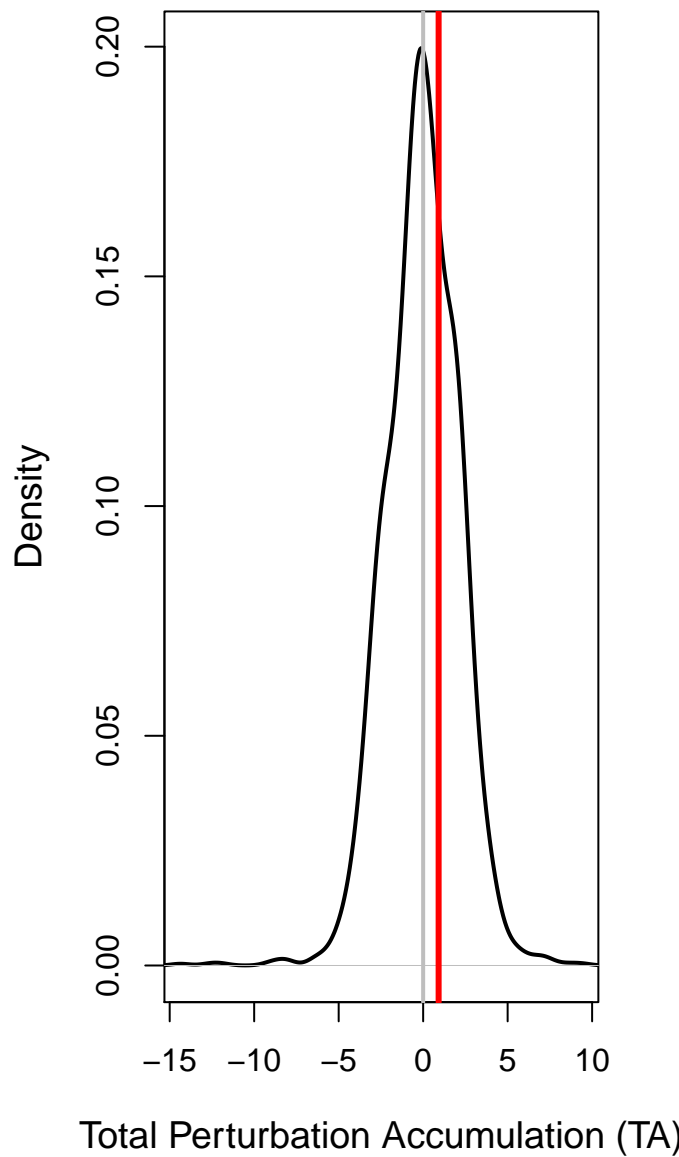
pathway ID=04910 P PERT=0.698



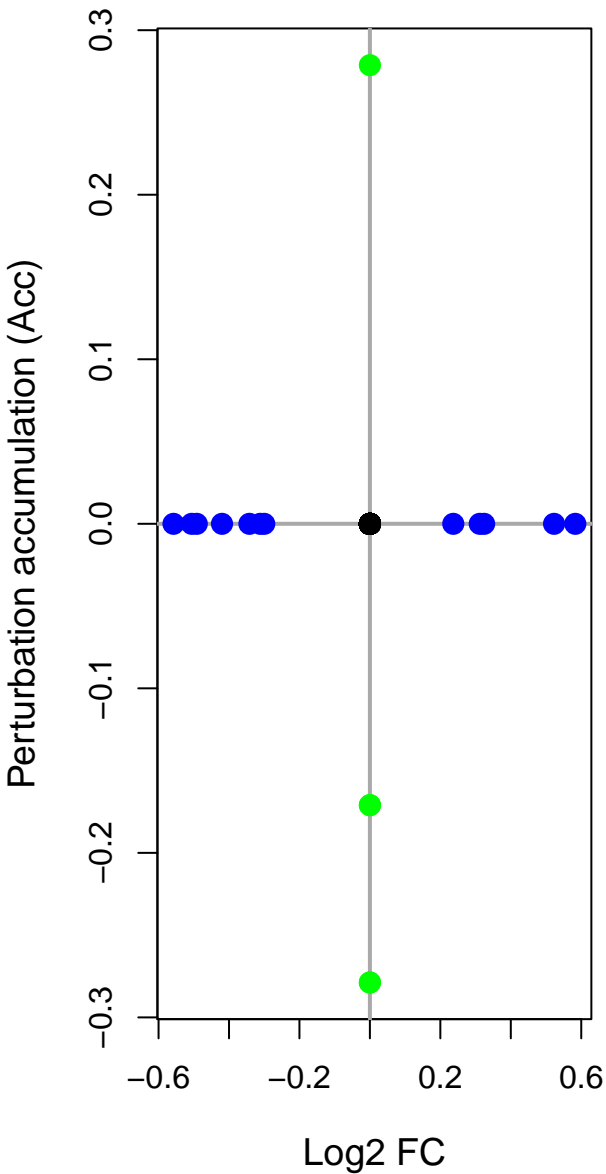
pathway ID=04912



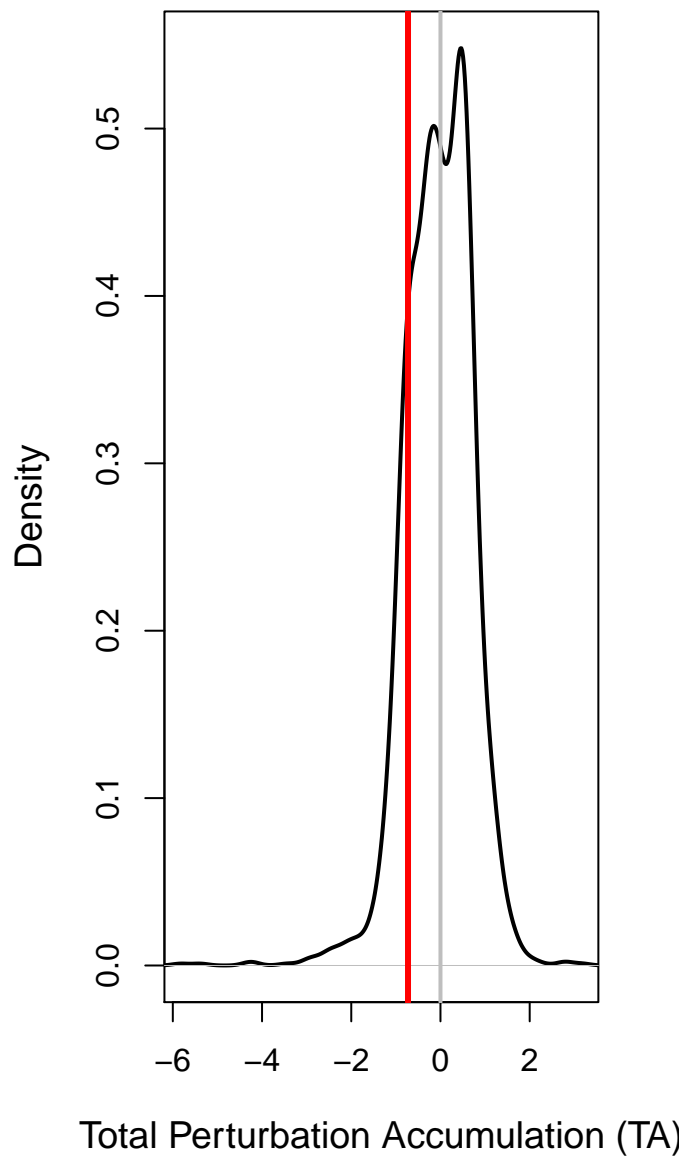
pathway ID=04912 P PERT=0.637



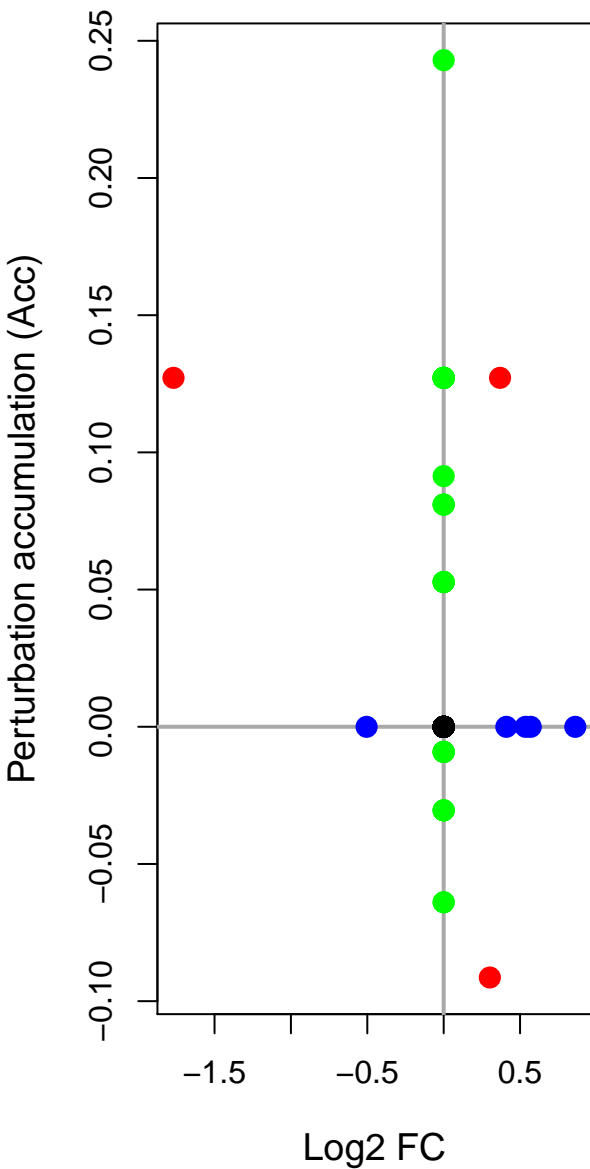
pathway ID=04914



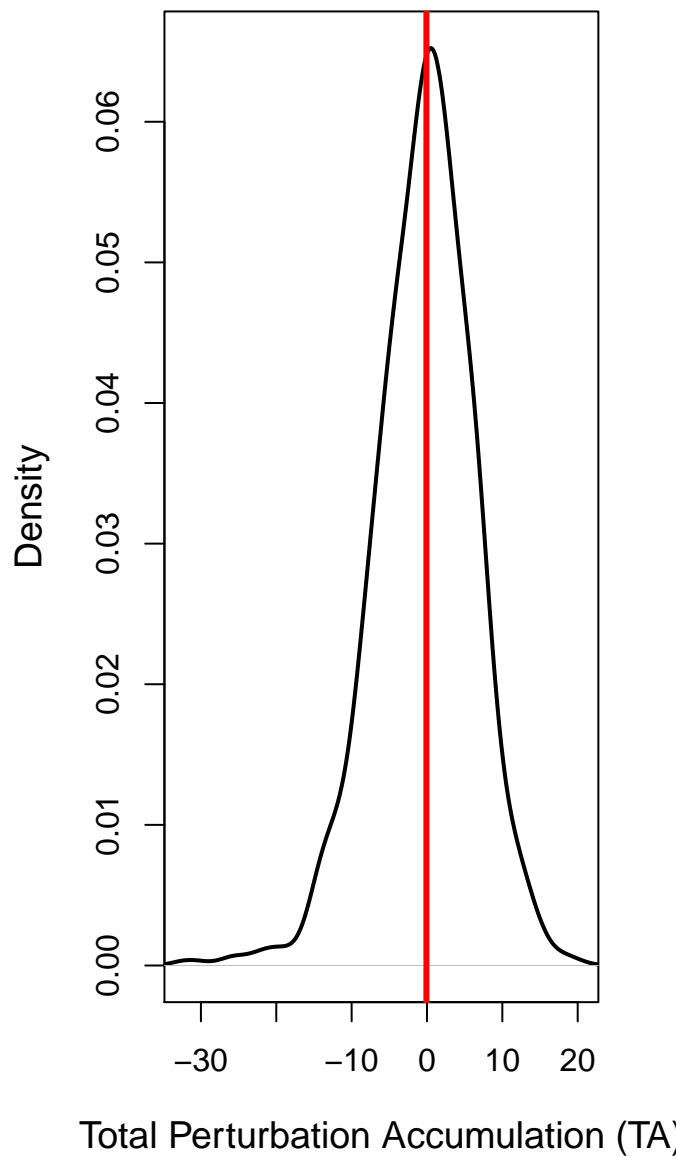
pathway ID=04914 P PERT=0.324



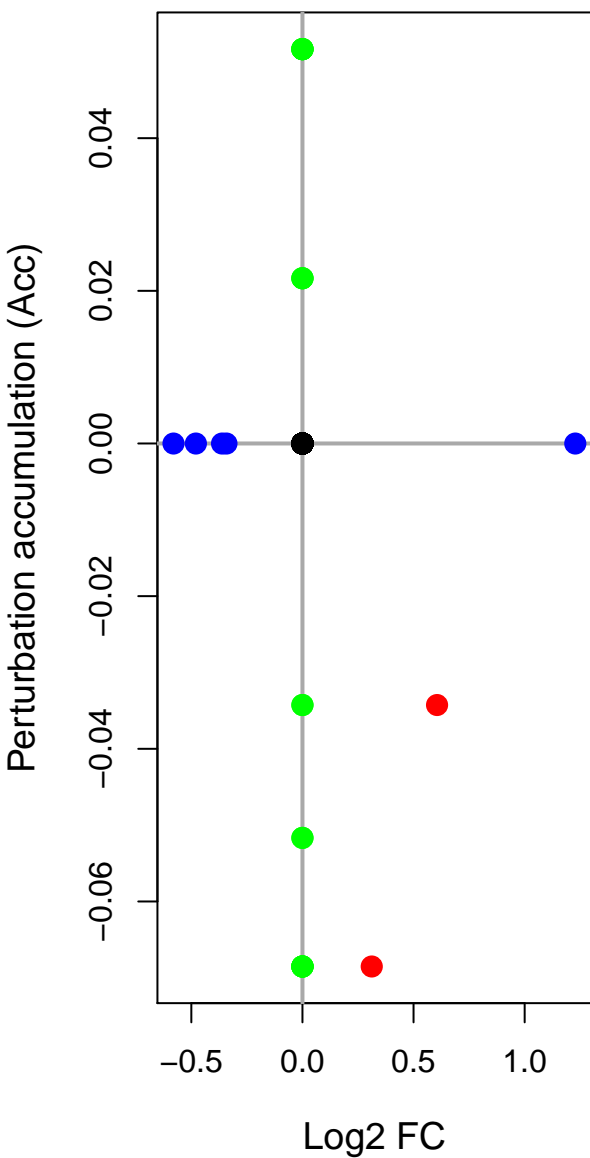
pathway ID=04916



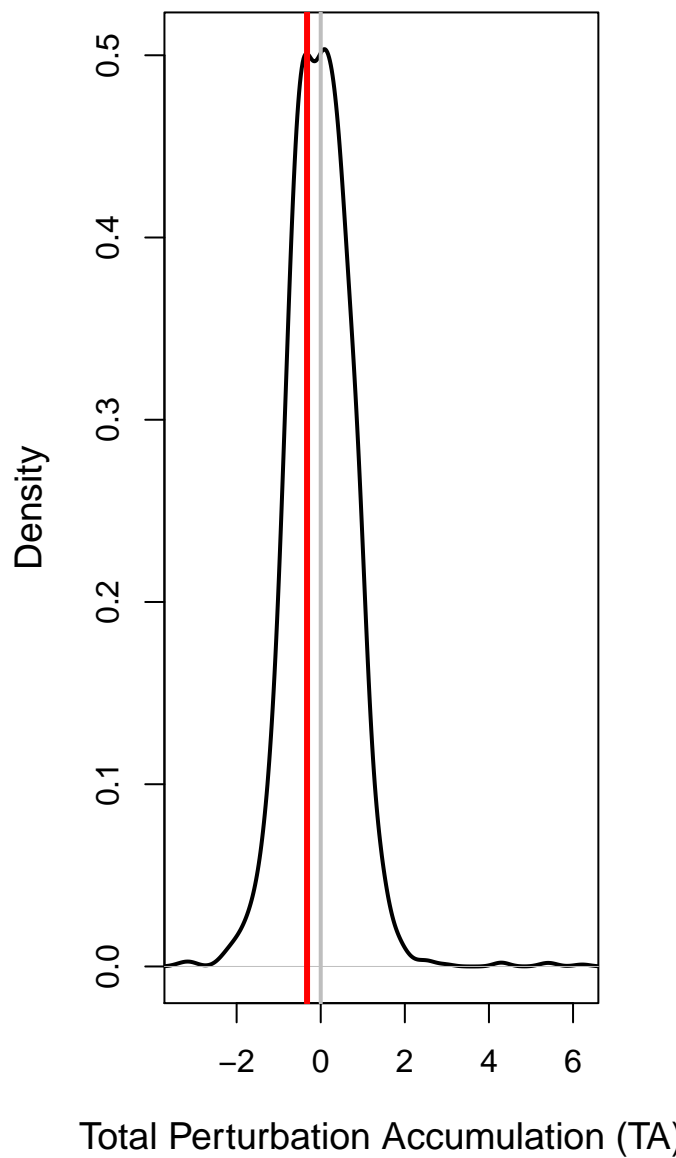
pathway ID=04916 P PERT=0.991



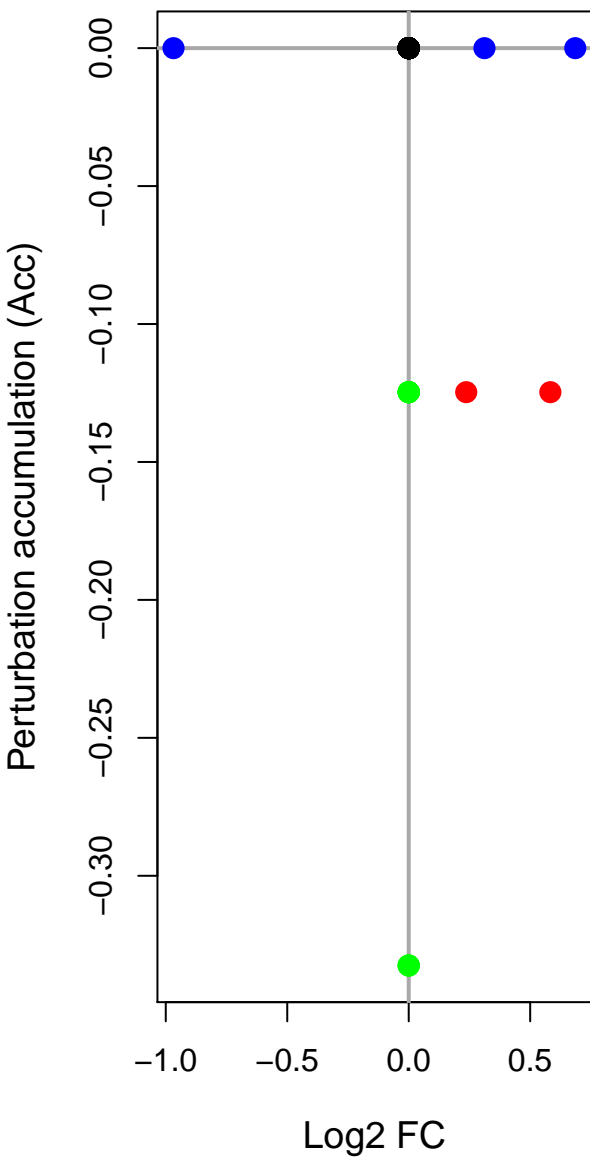
pathway ID=04920



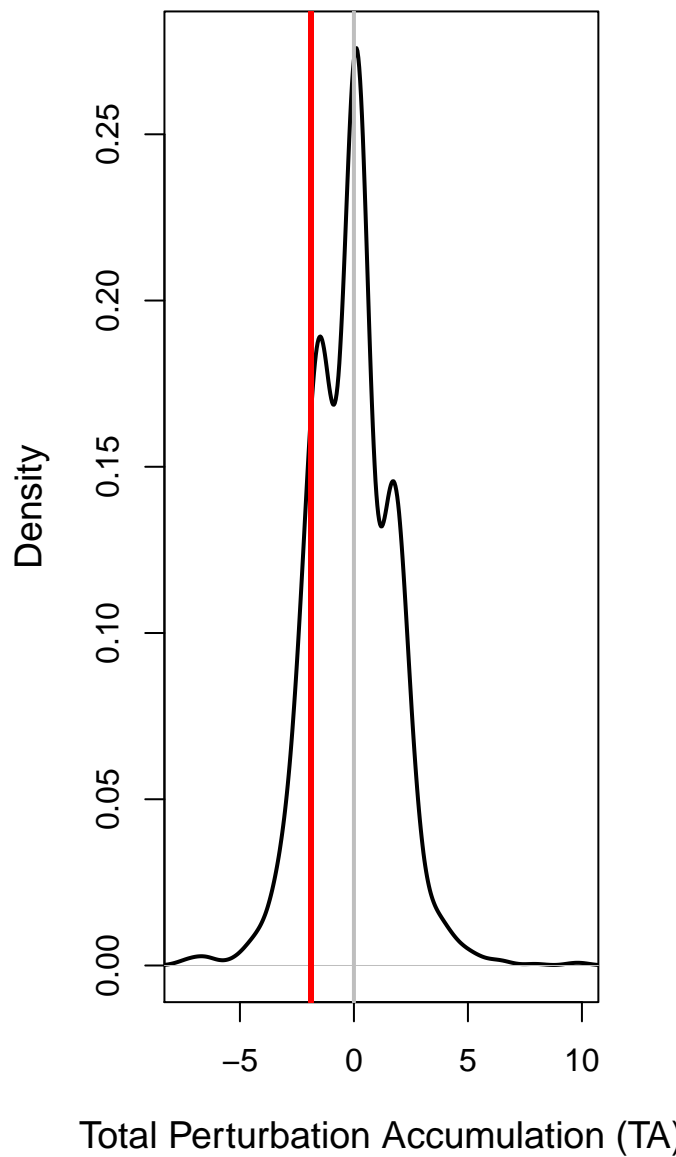
pathway ID=04920 P PERT=0.689



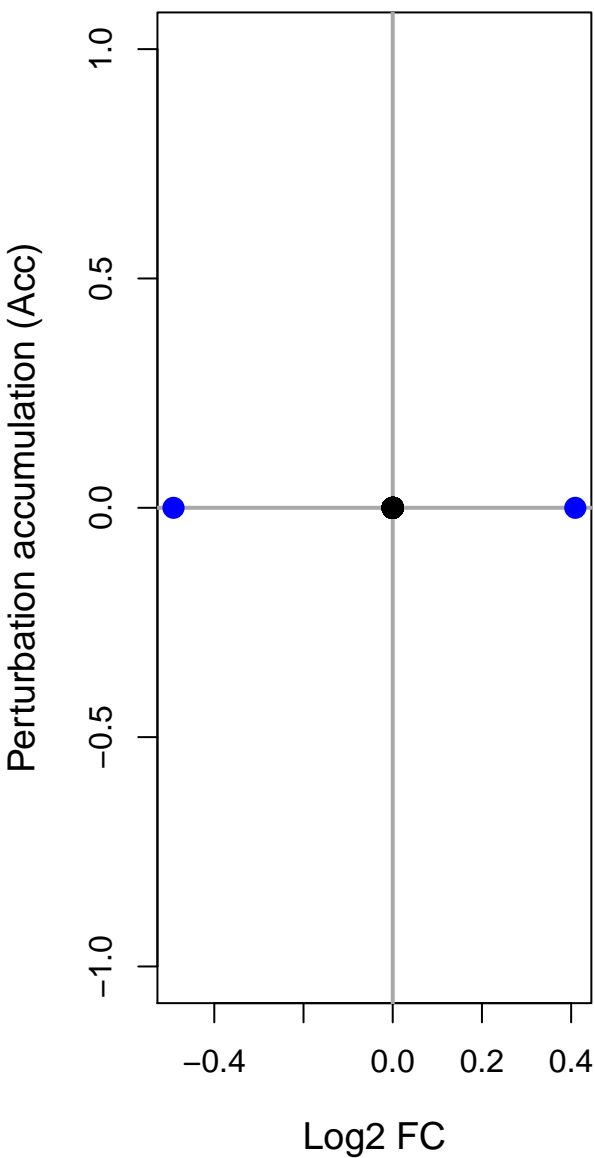
pathway ID=04930



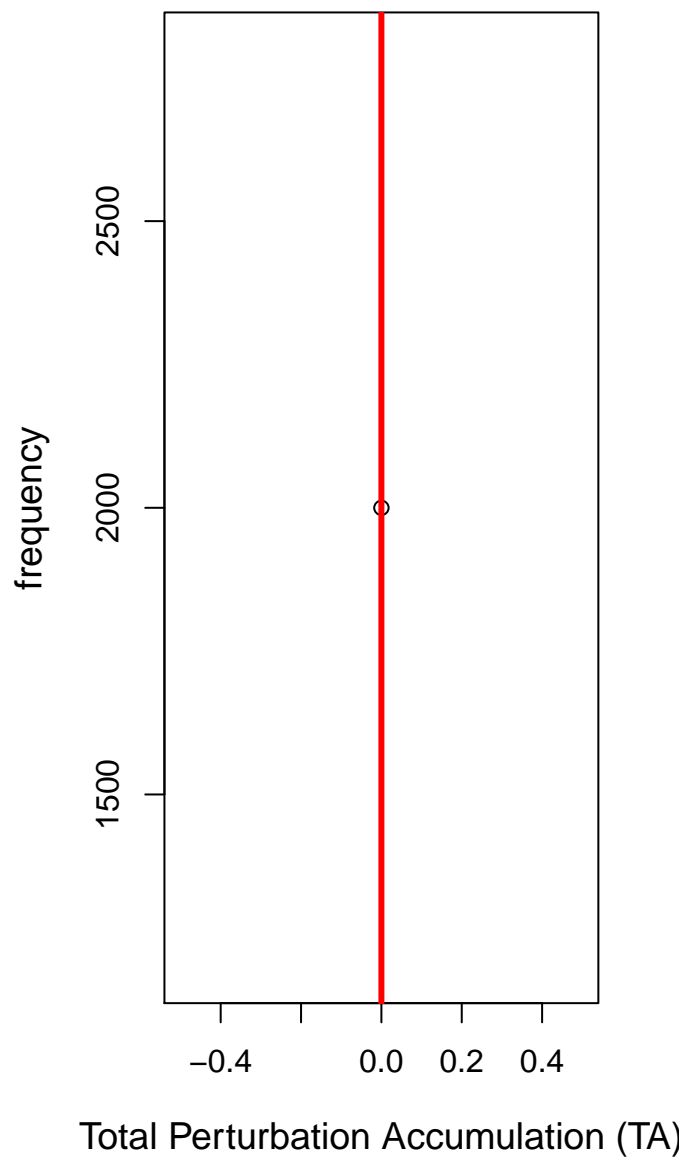
pathway ID=04930 P PERT=0.278



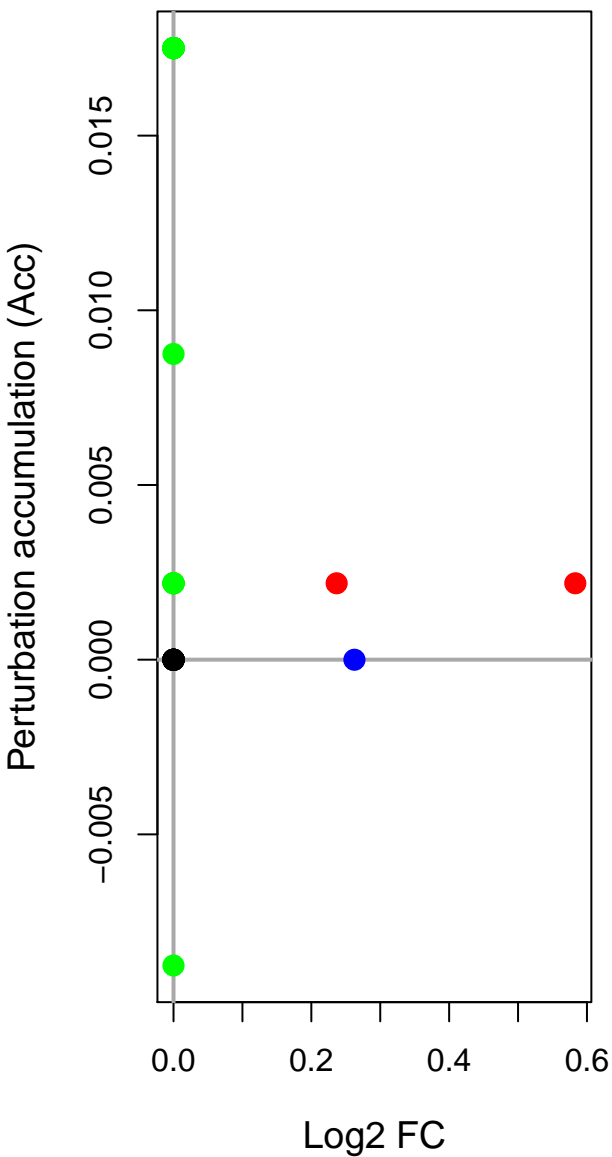
pathway ID=04940



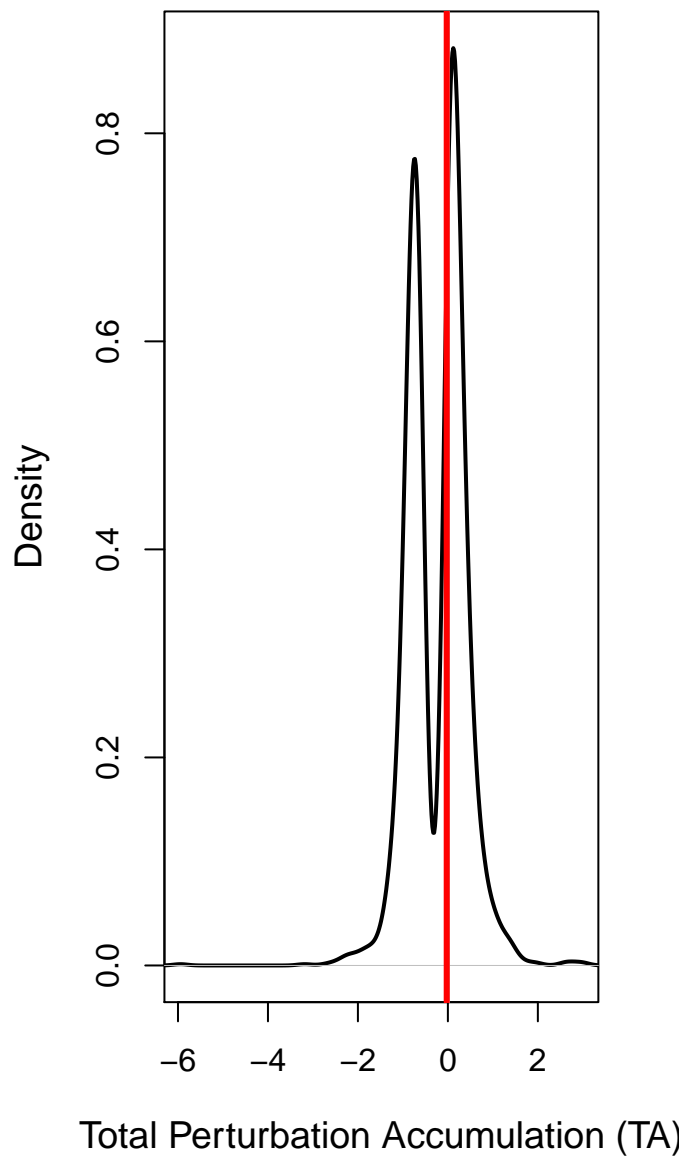
pathway ID=04940 P PERT=NA



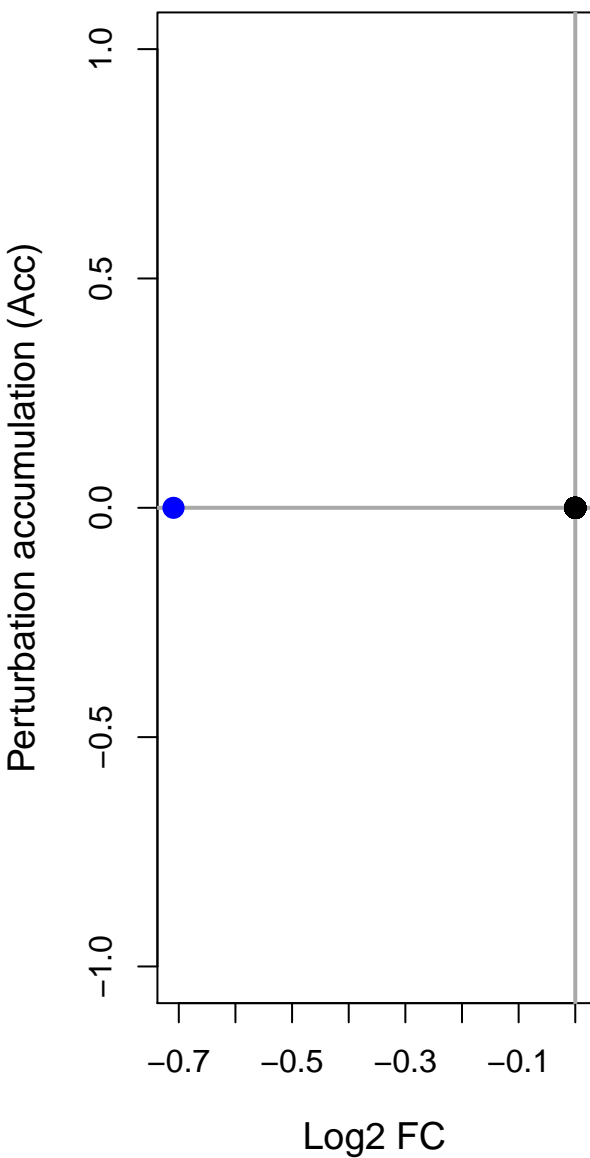
pathway ID=04960



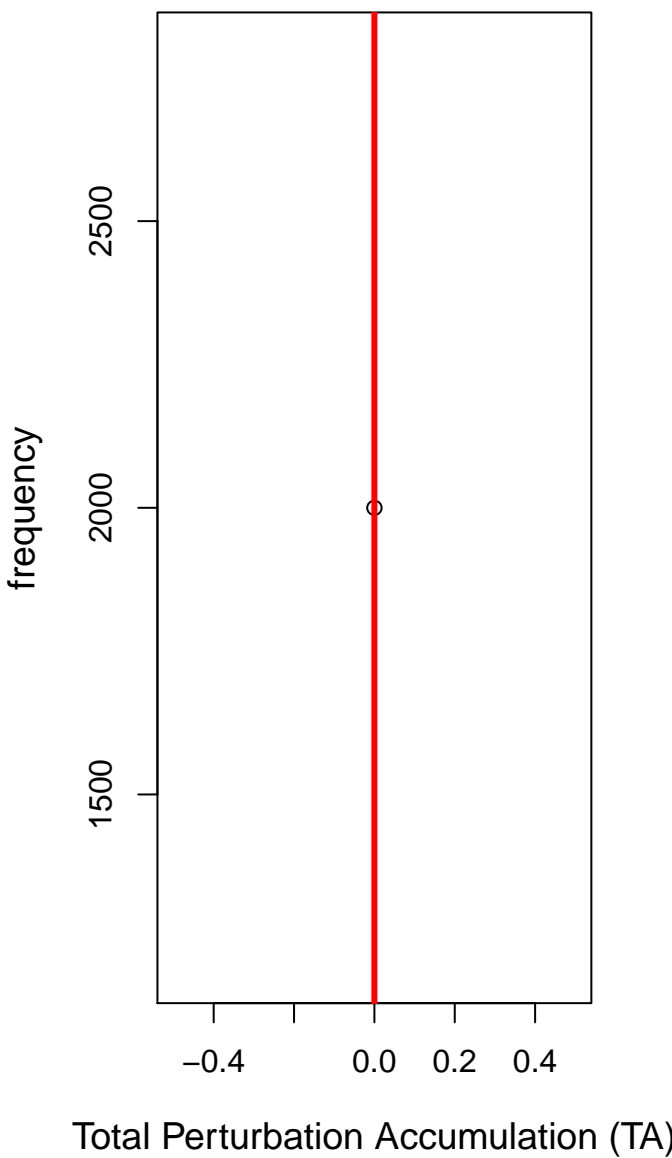
pathway ID=04960 P PERT=0.95



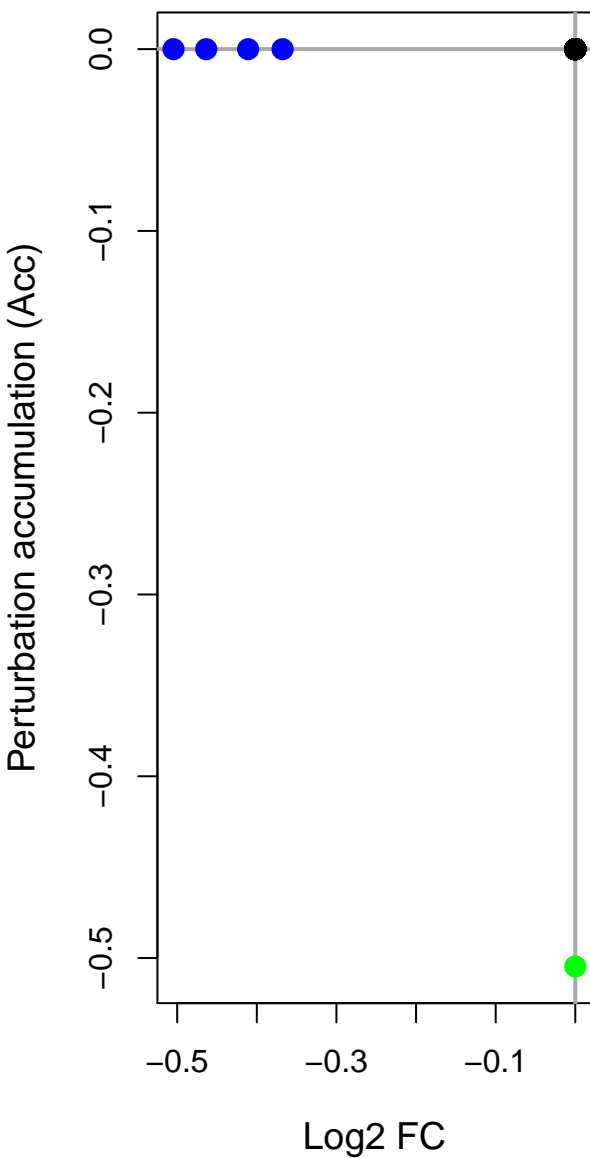
pathway ID=04961



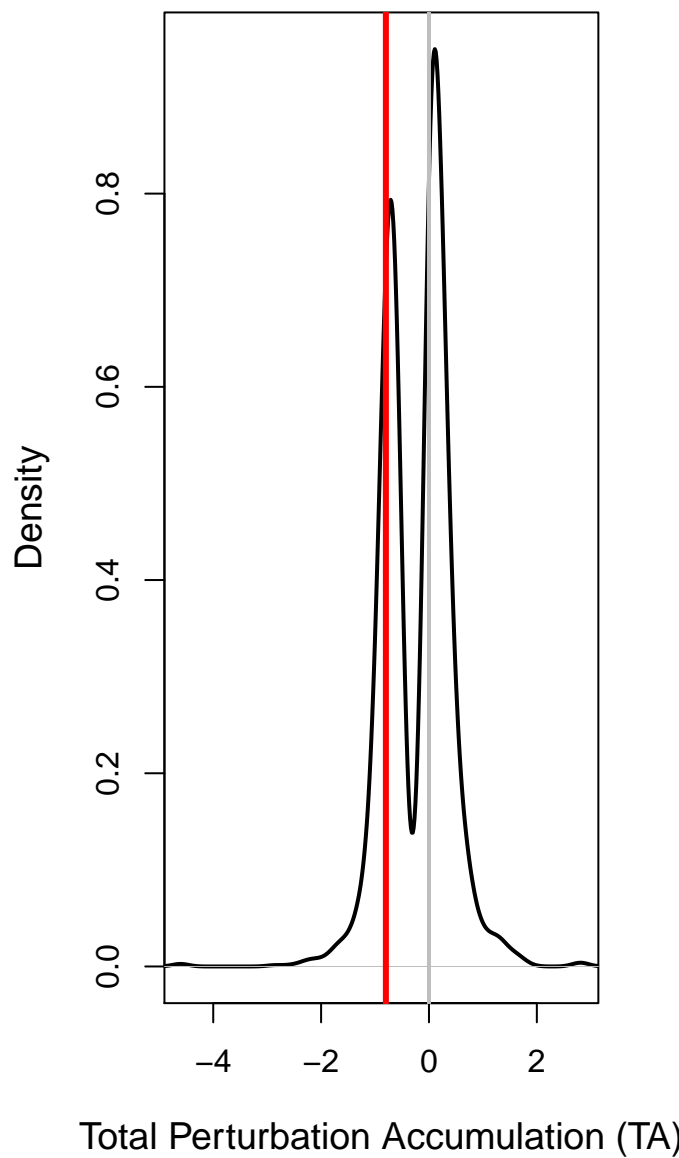
pathway ID=04961 P PERT=NA



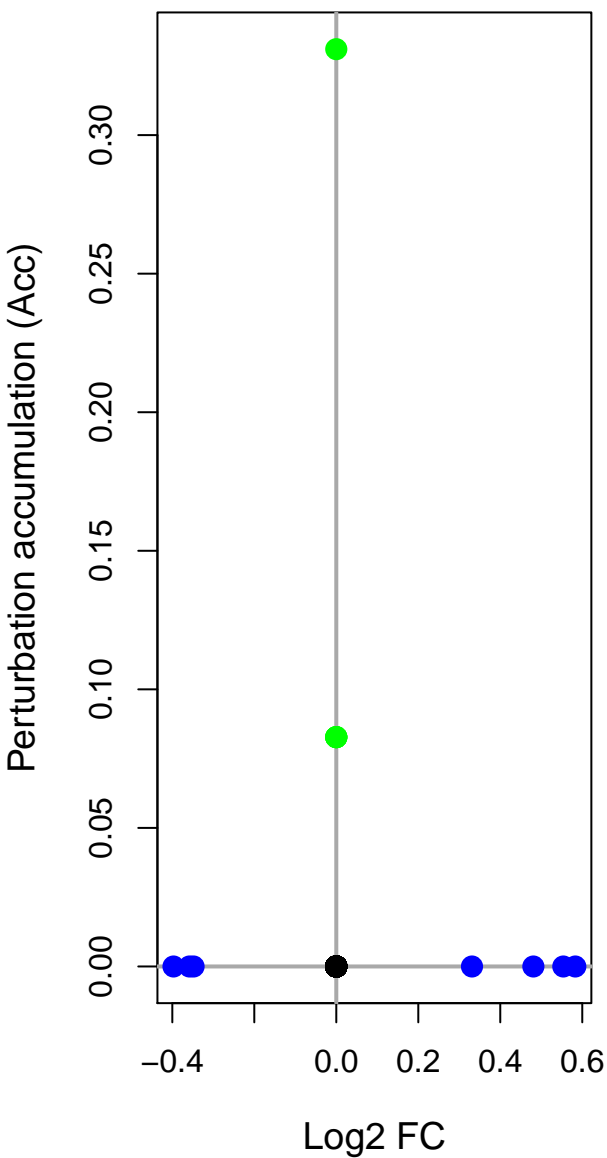
pathway ID=04962



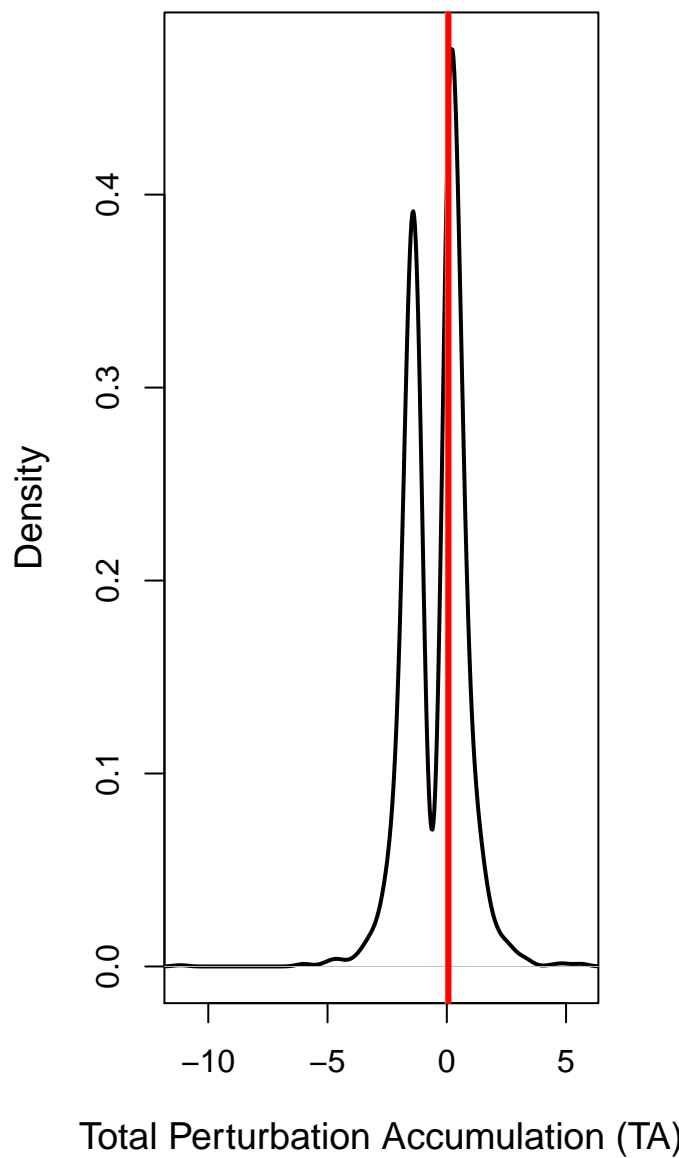
pathway ID=04962 P PERT=0.327



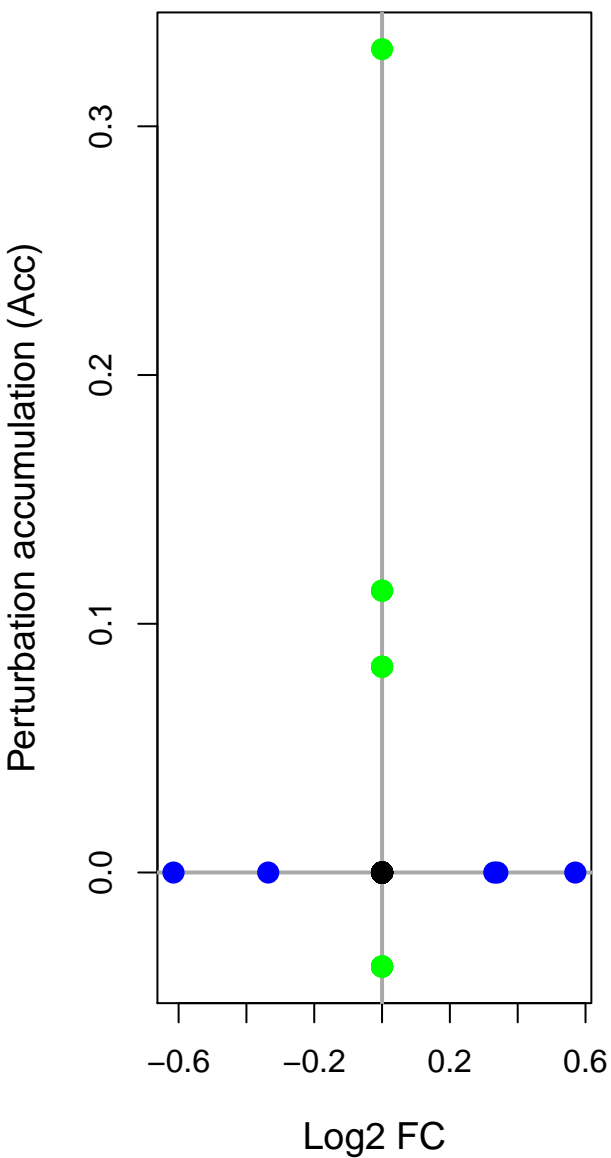
pathway ID=04970



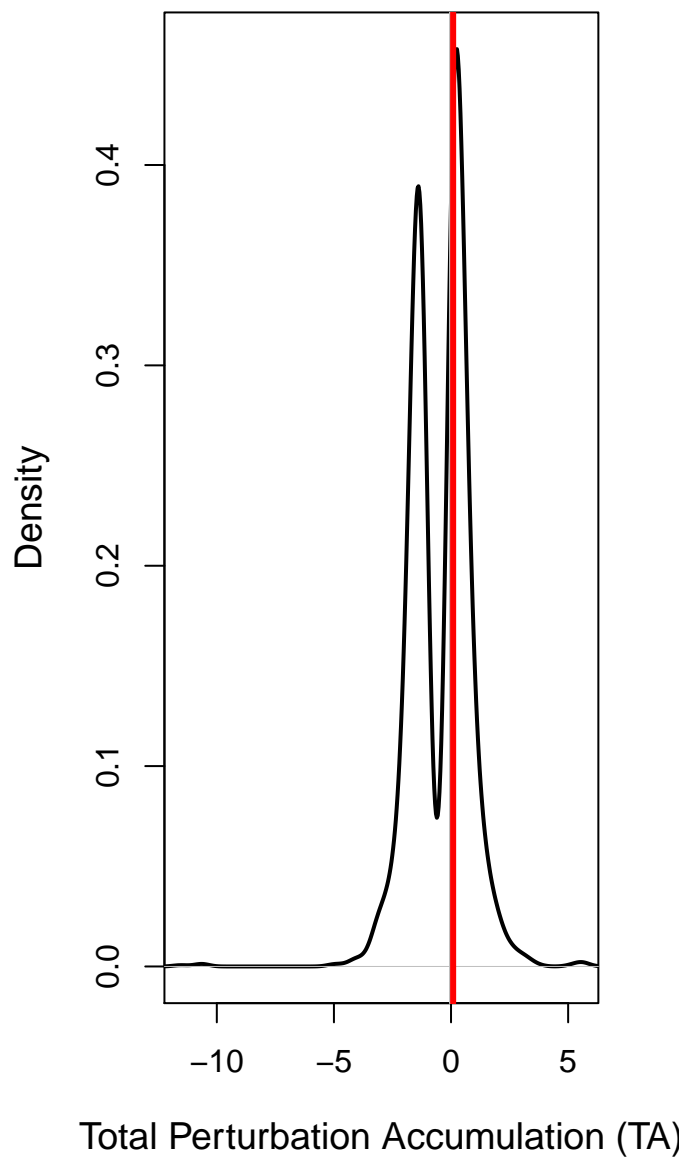
pathway ID=04970 P PERT=0.886



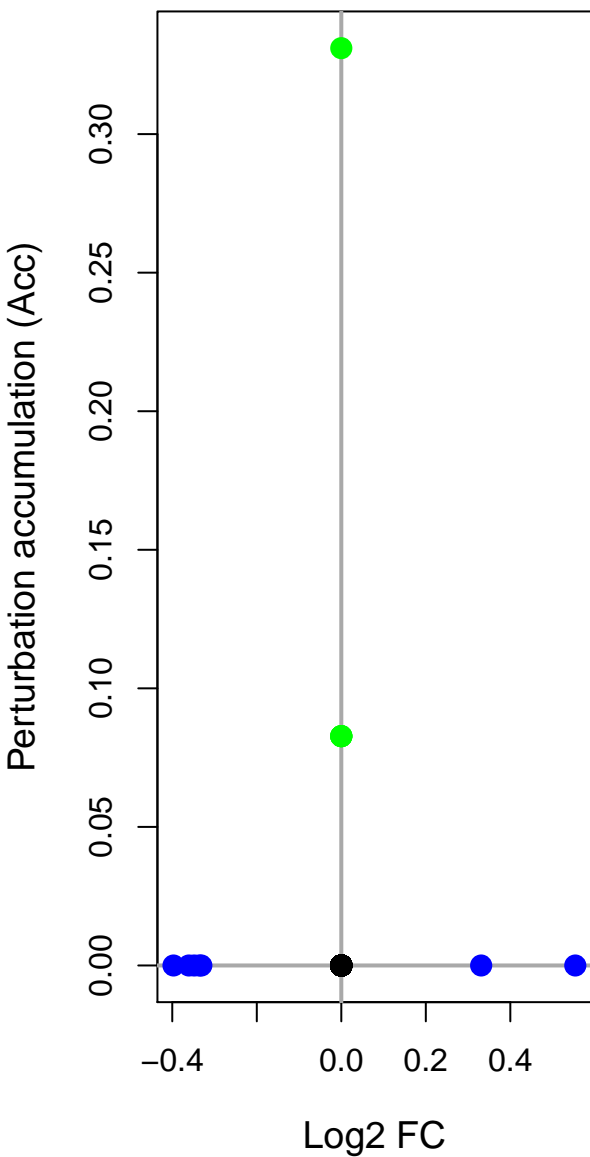
pathway ID=04971



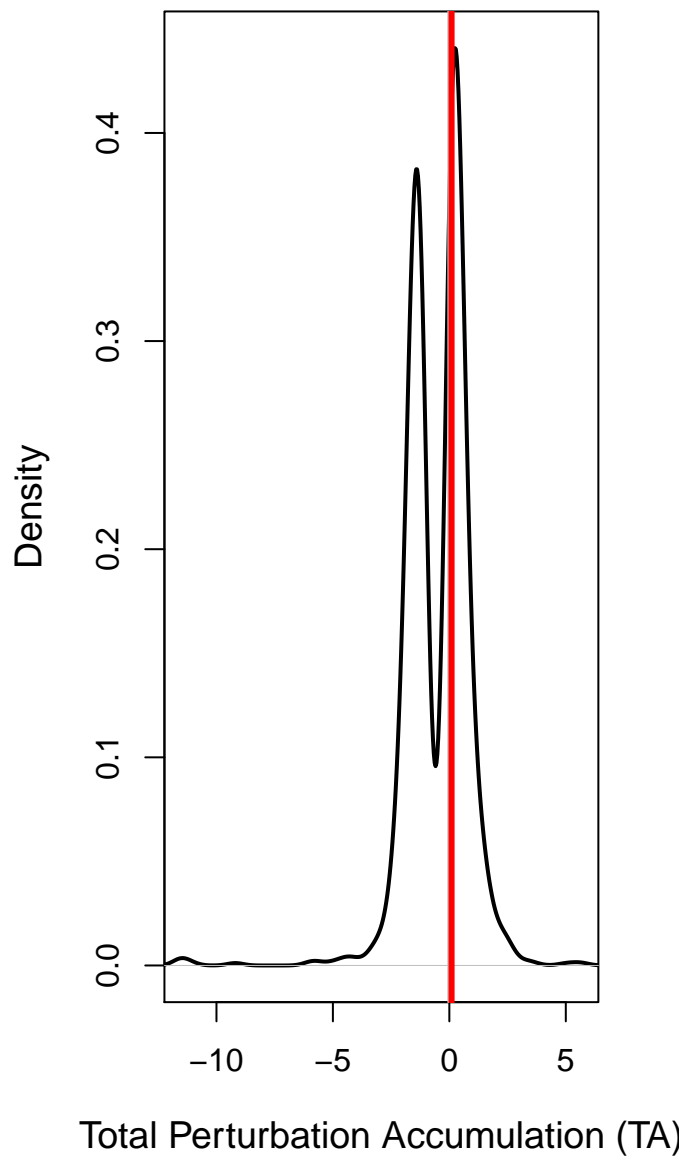
pathway ID=04971 P PERT=0.873



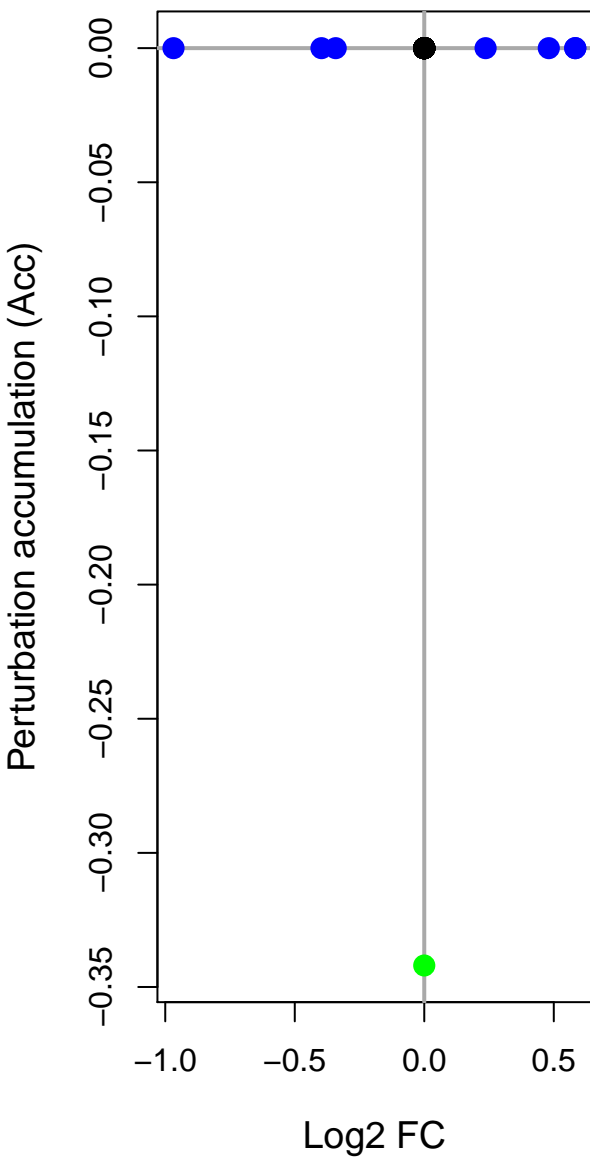
pathway ID=04972



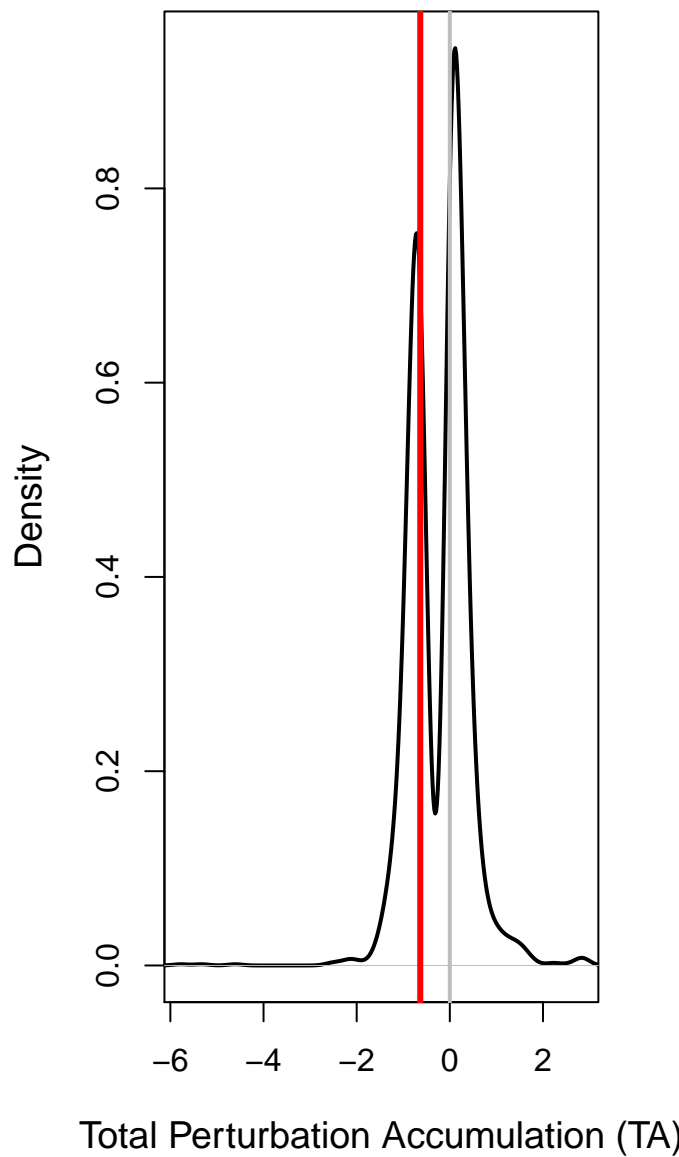
pathway ID=04972 P PERT=0.863



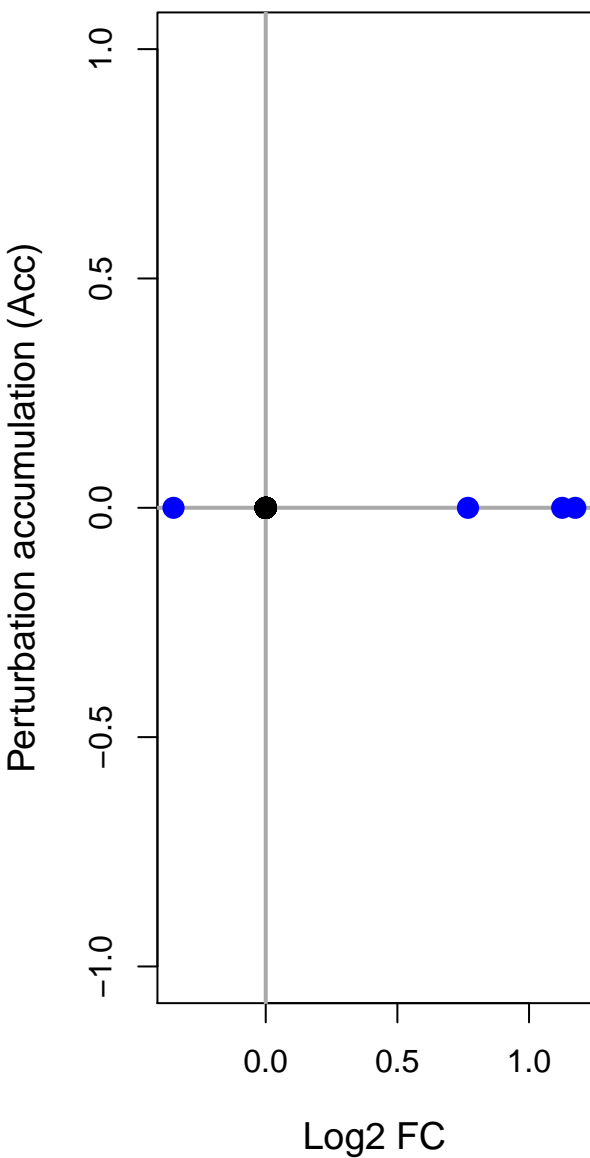
pathway ID=04973



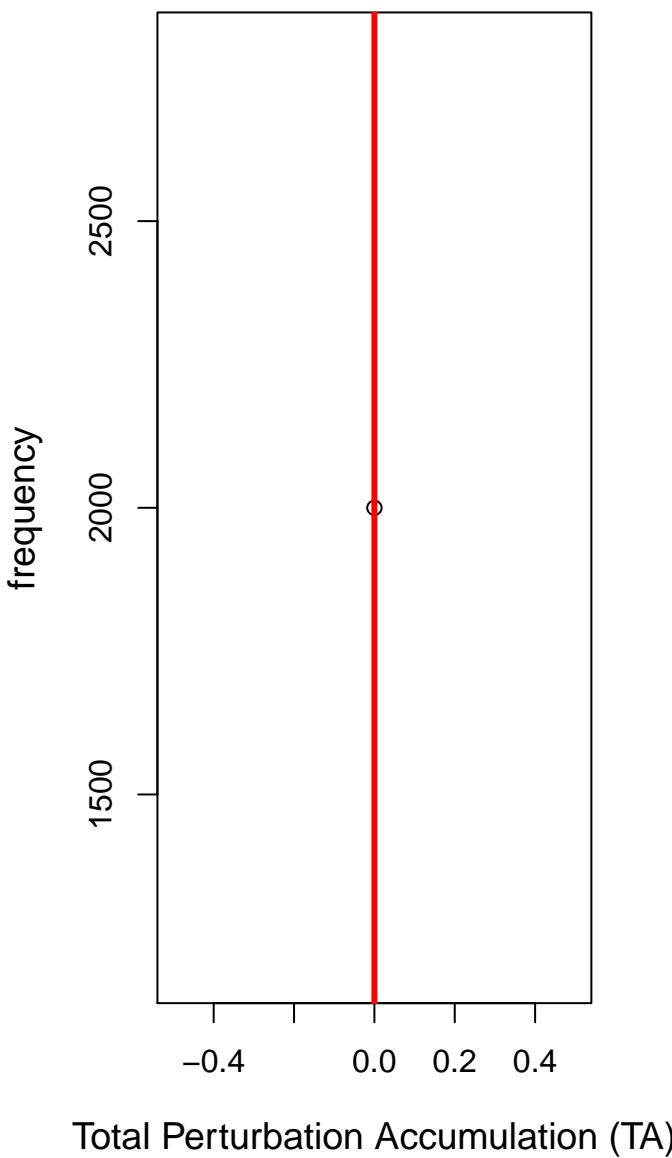
pathway ID=04973 P PERT=0.689



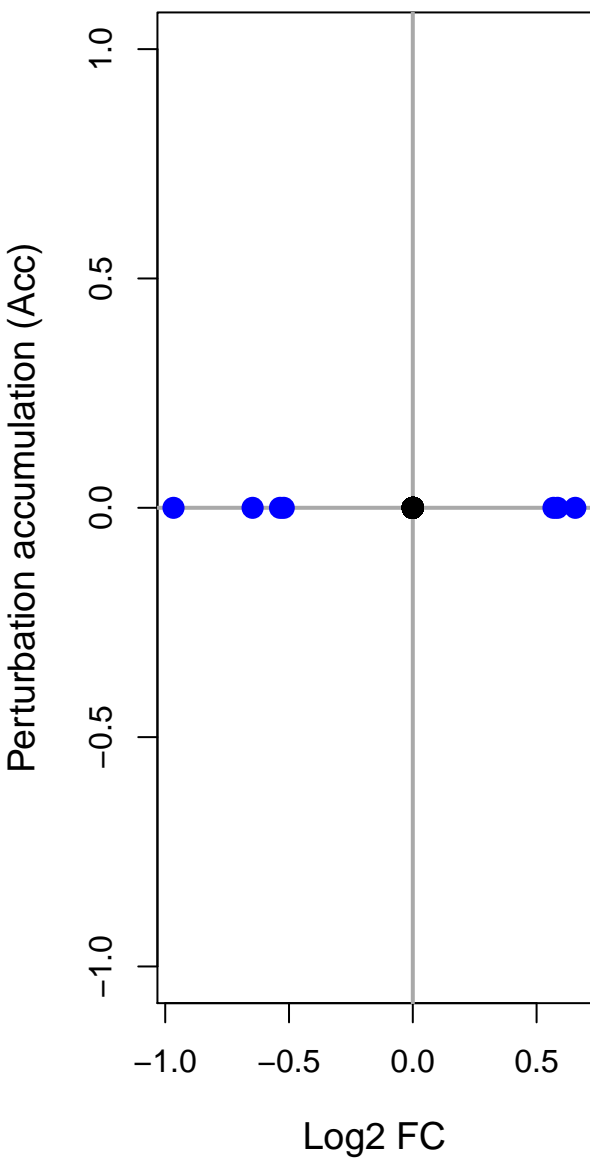
pathway ID=04976



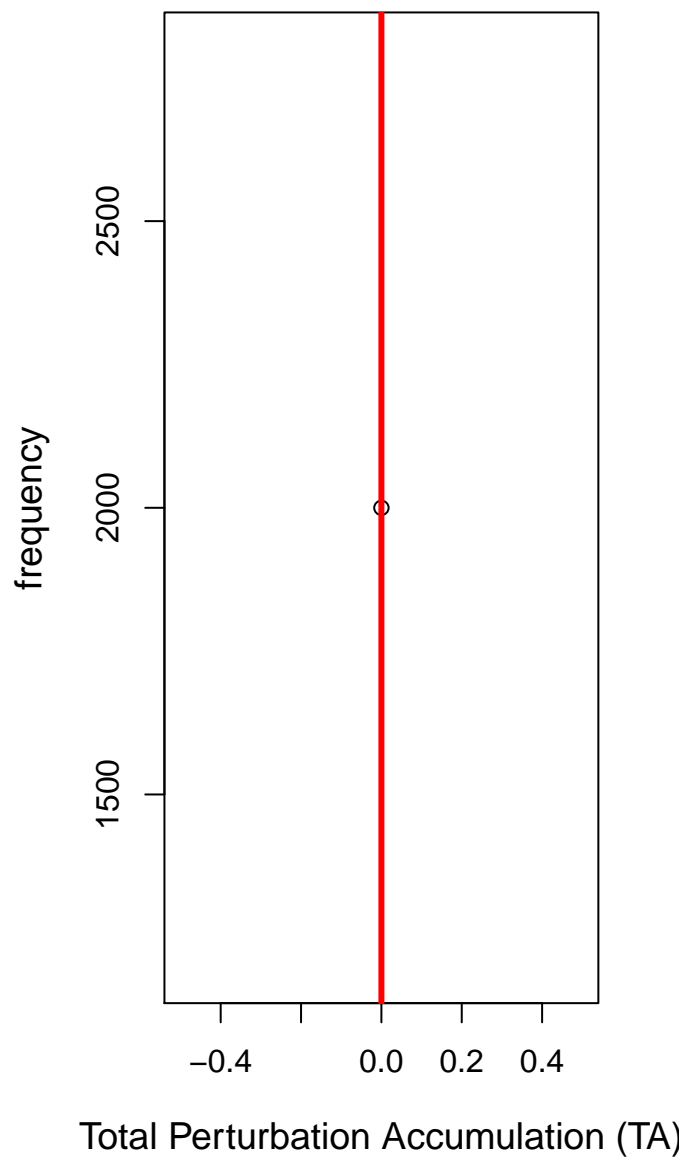
pathway ID=04976 P PERT=NA



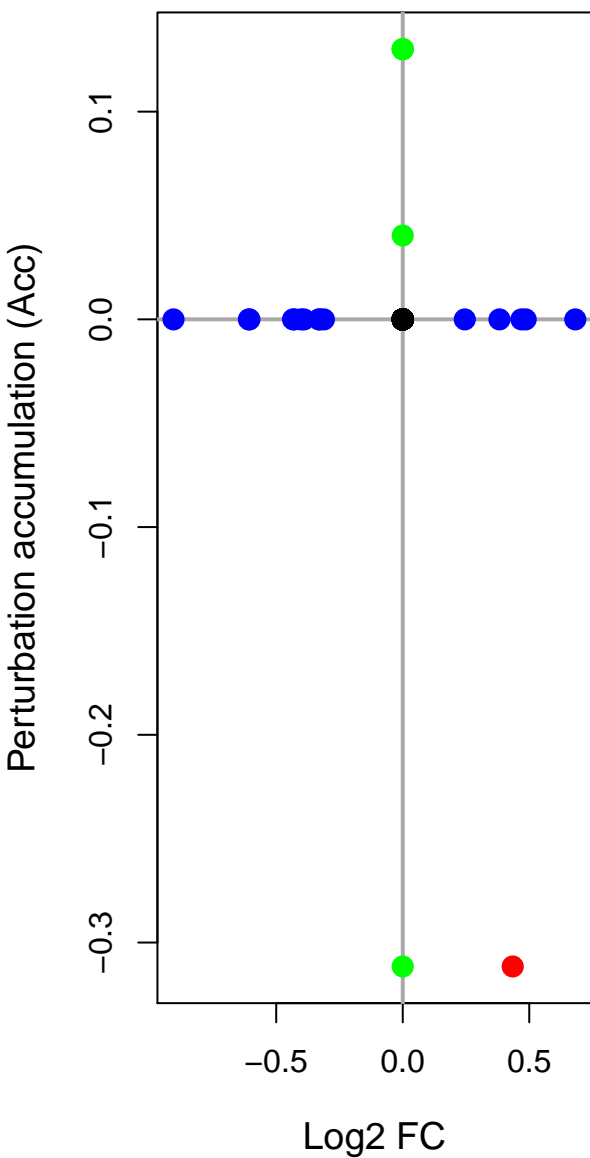
pathway ID=04978



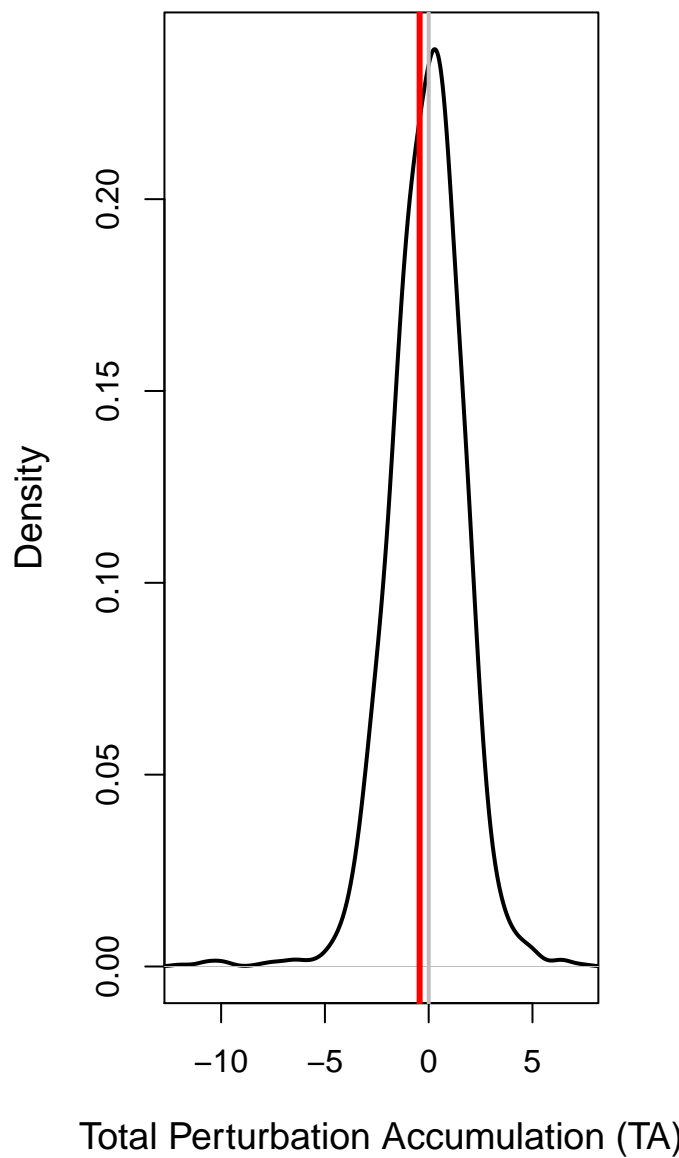
pathway ID=04978 P PERT=NA



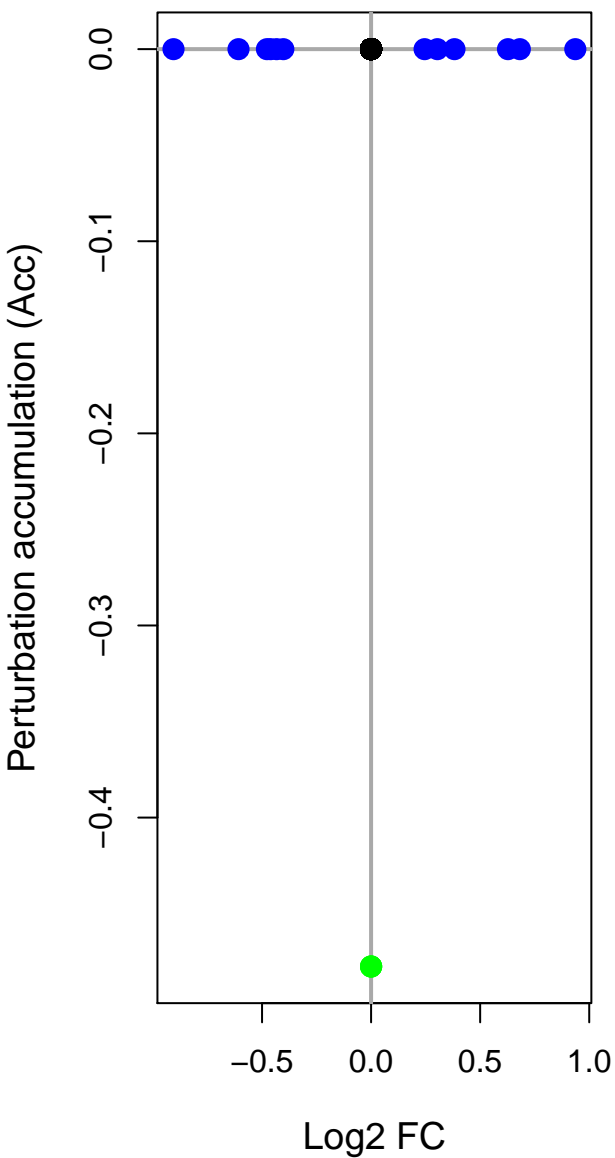
pathway ID=05010



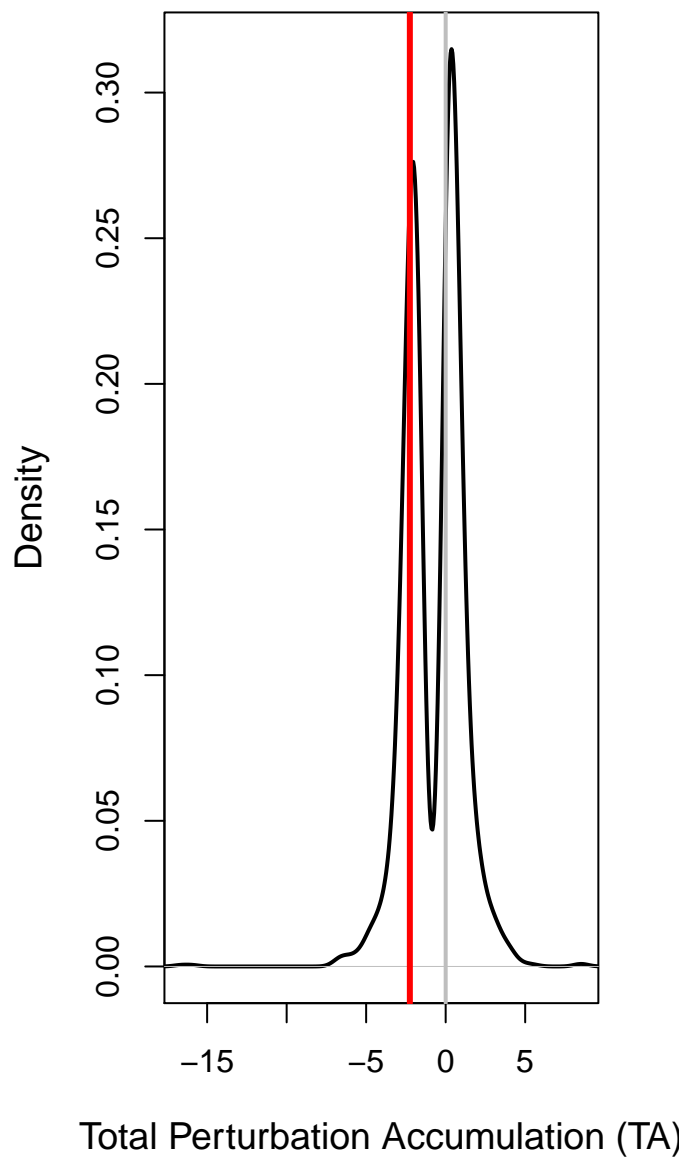
pathway ID=05010 P PERT=0.805



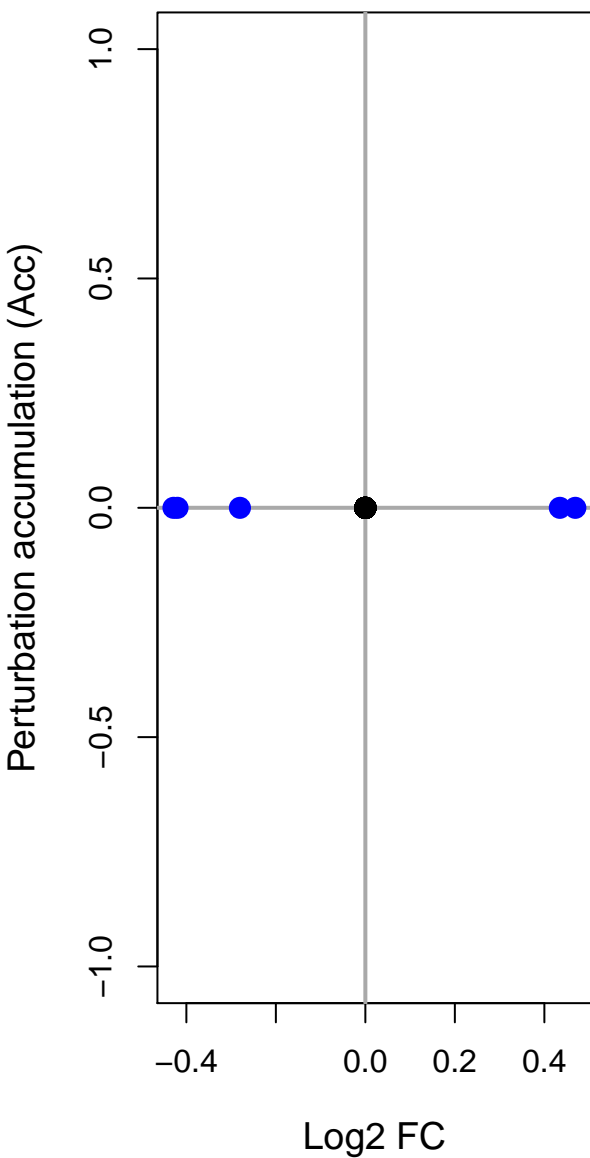
pathway ID=05012



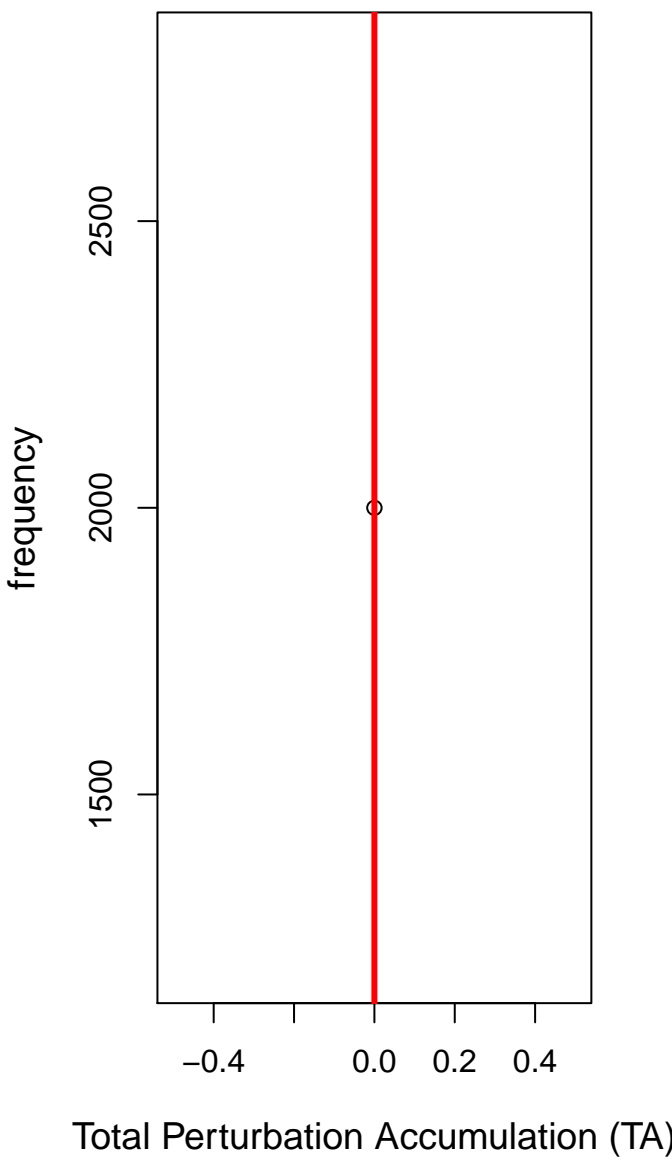
pathway ID=05012 P PERT=0.379



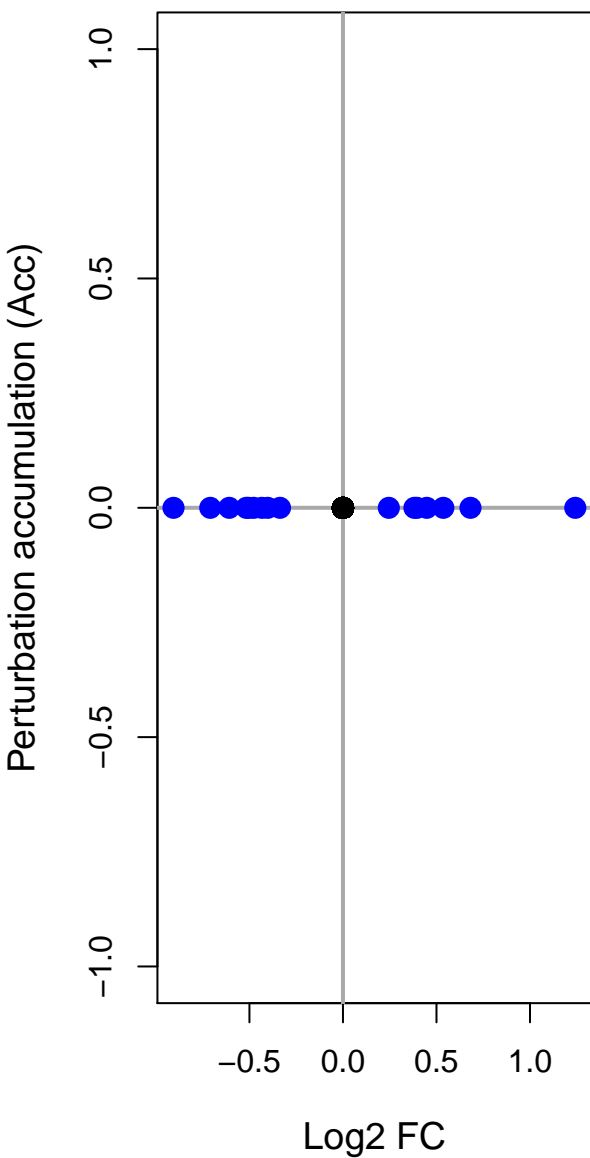
pathway ID=05014



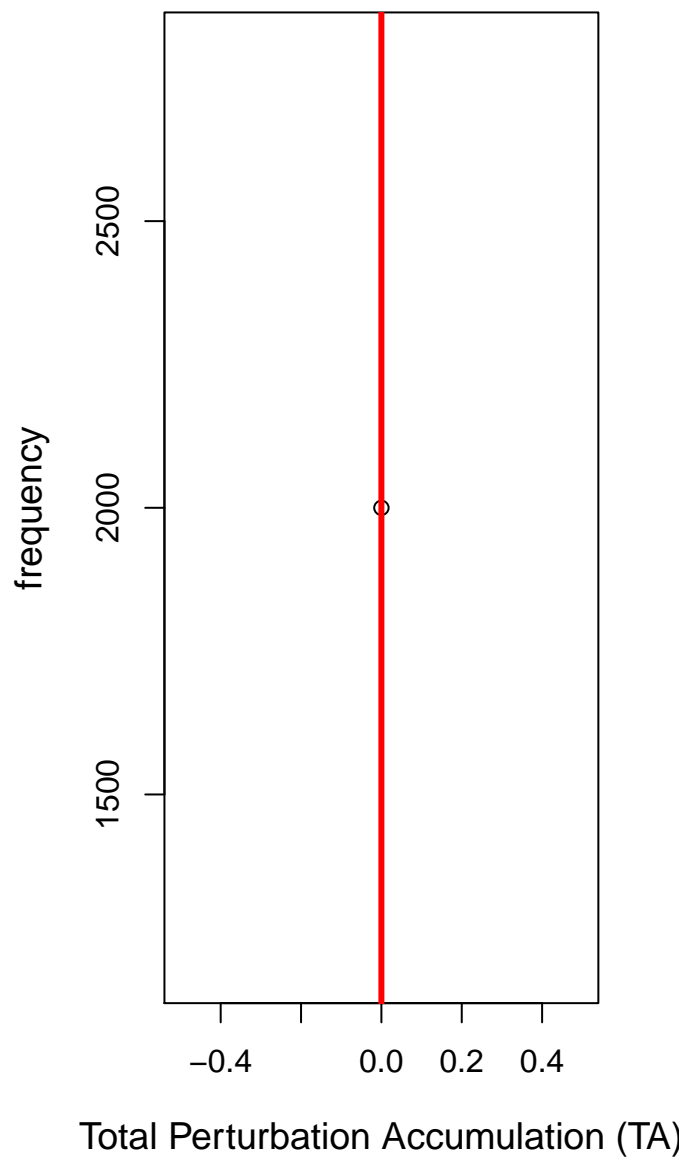
pathway ID=05014 P PERT=NA



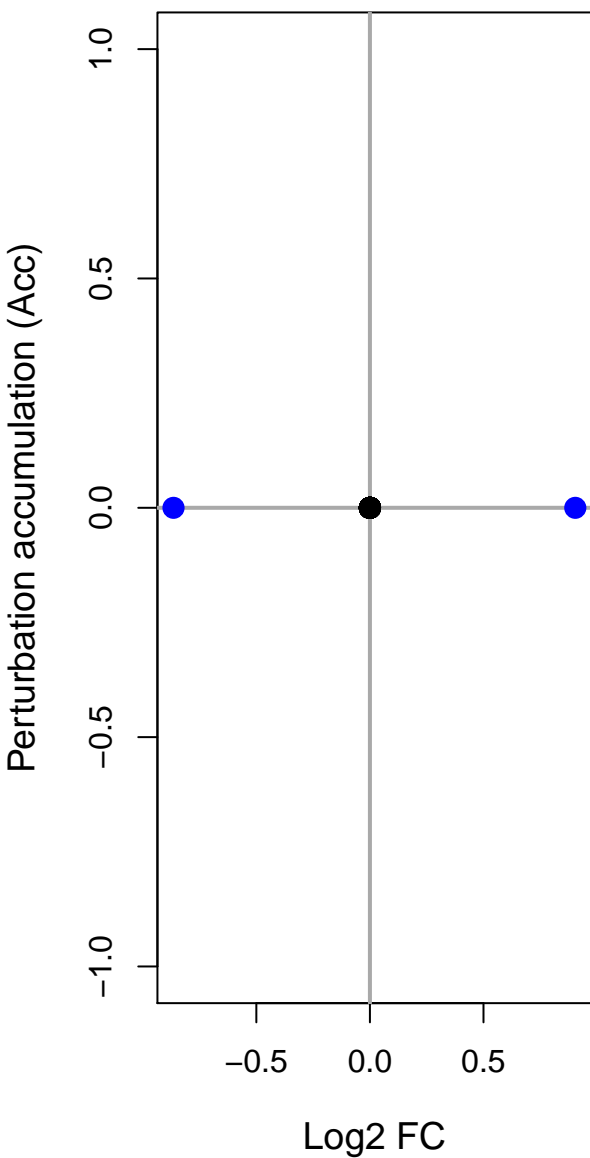
pathway ID=05016



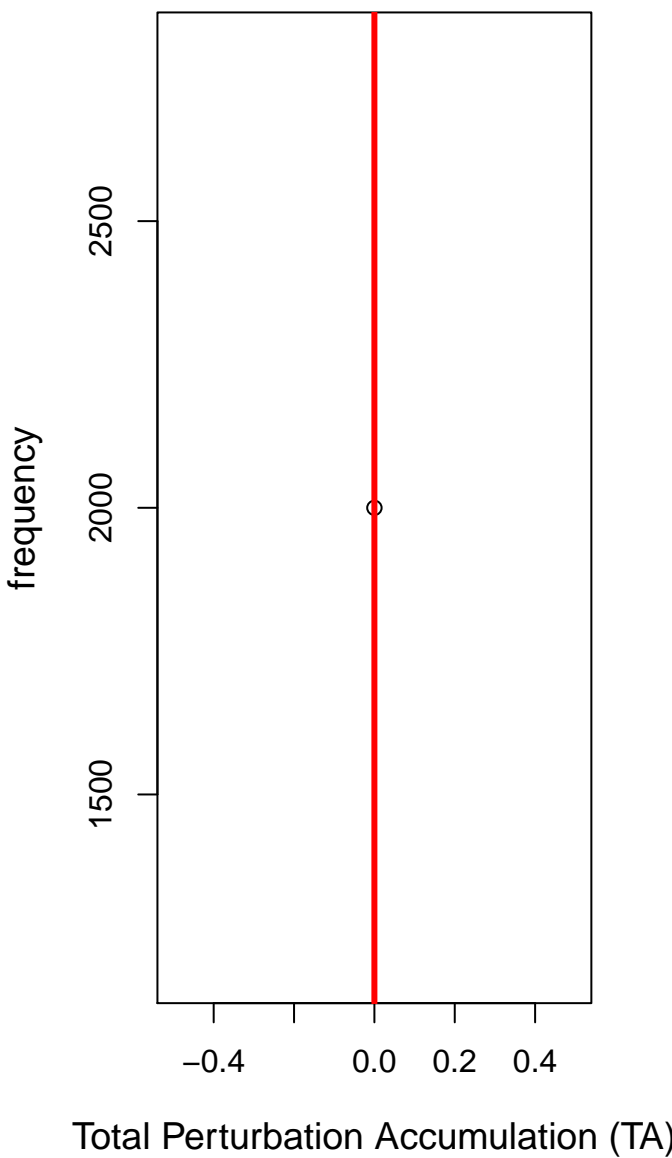
pathway ID=05016 P PERT=NA



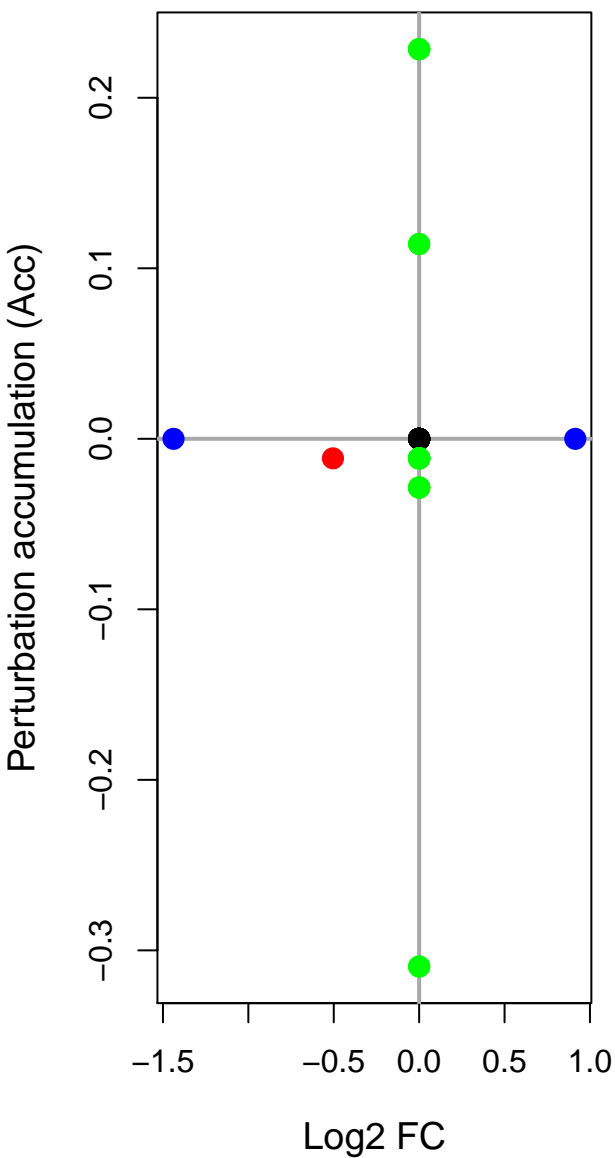
pathway ID=05020



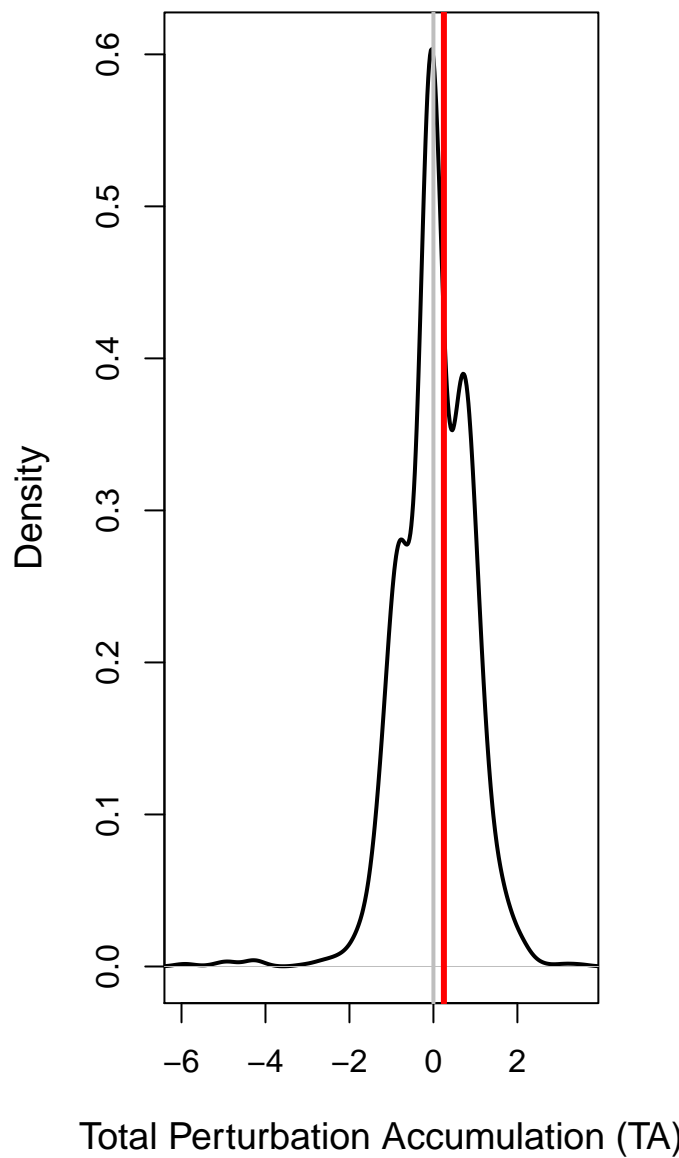
pathway ID=05020 P PERT=NA



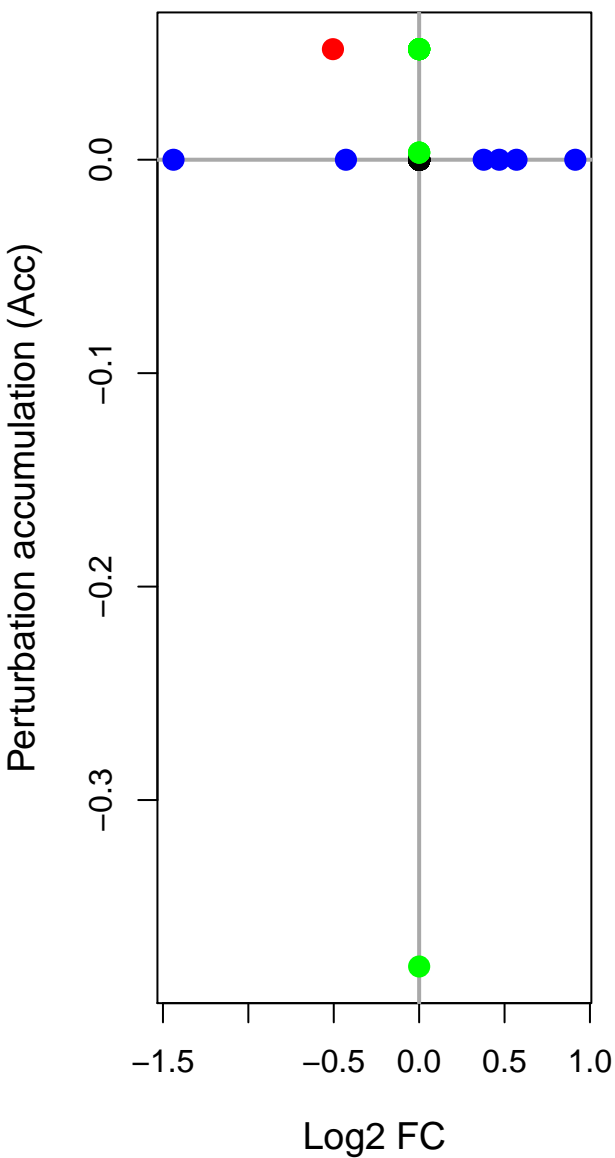
pathway ID=05030



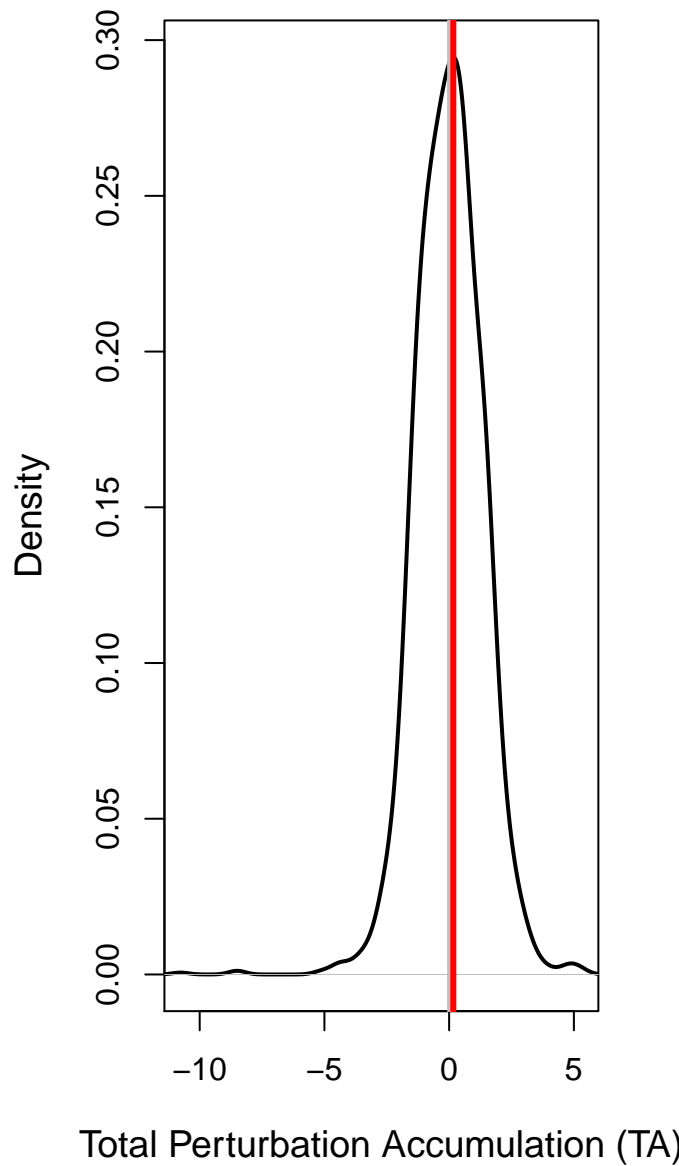
pathway ID=05030 P PERT=0.73



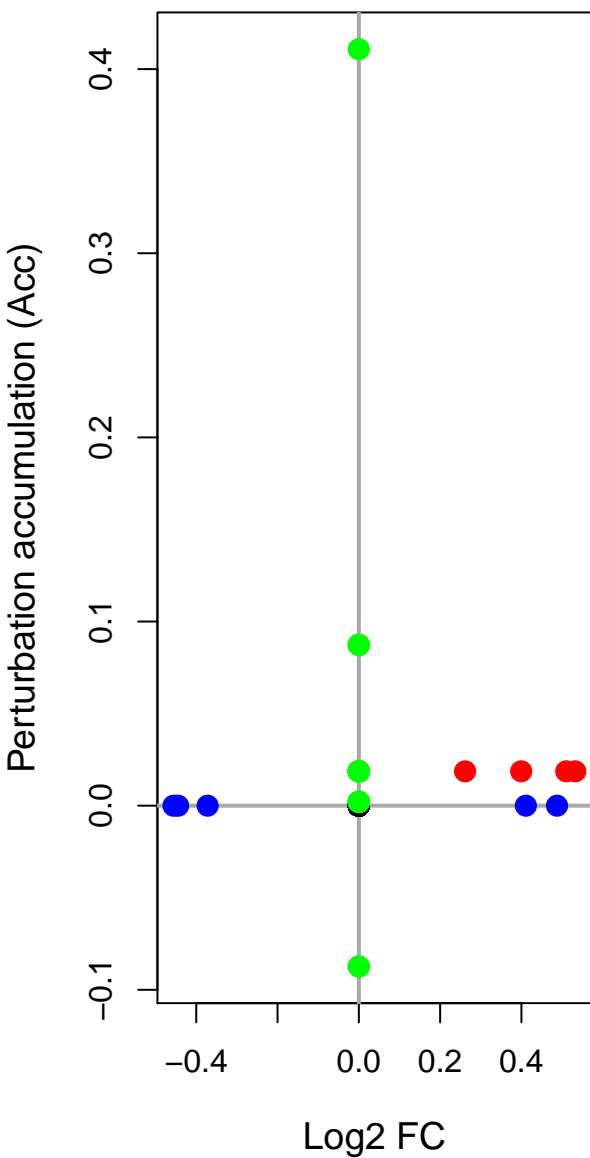
pathway ID=05031



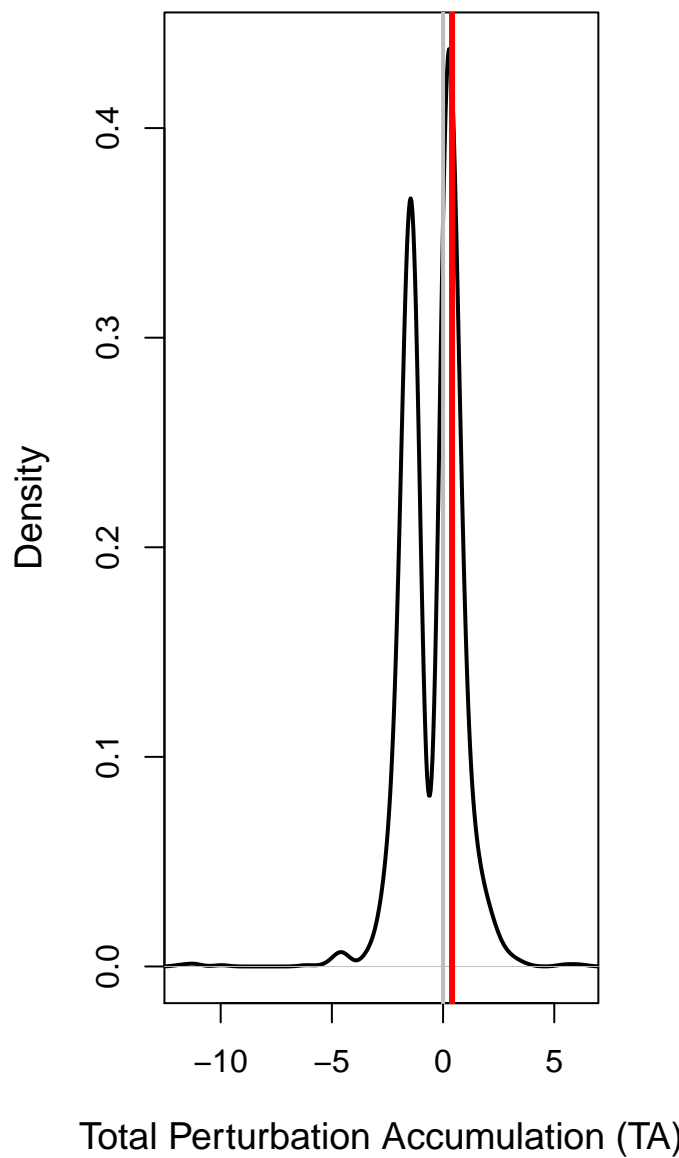
pathway ID=05031 P PERT=0.901



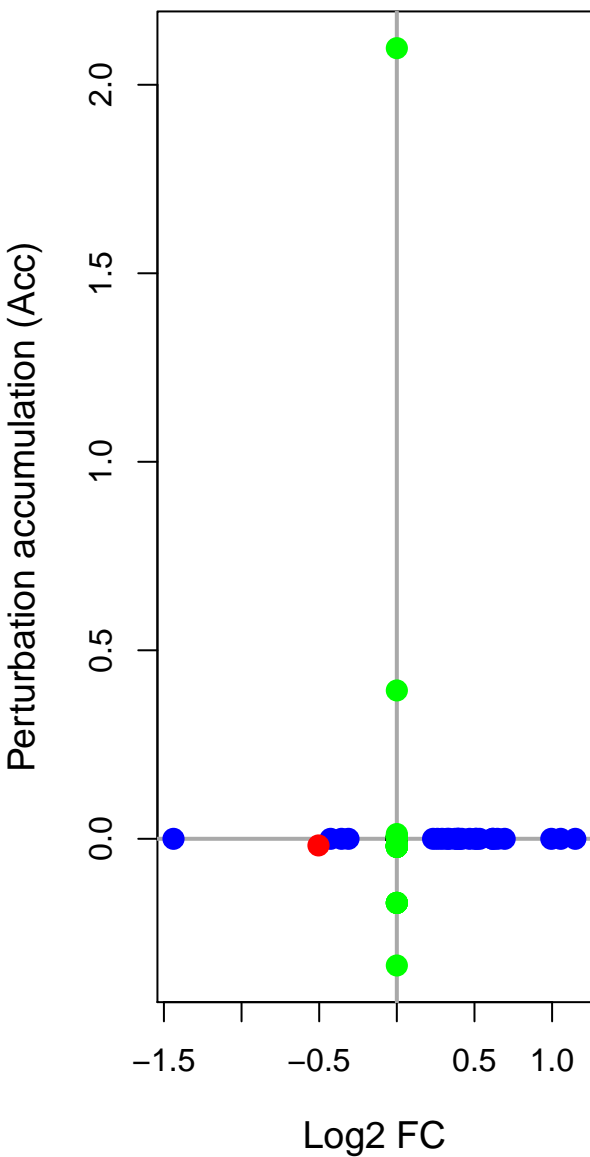
pathway ID=05032



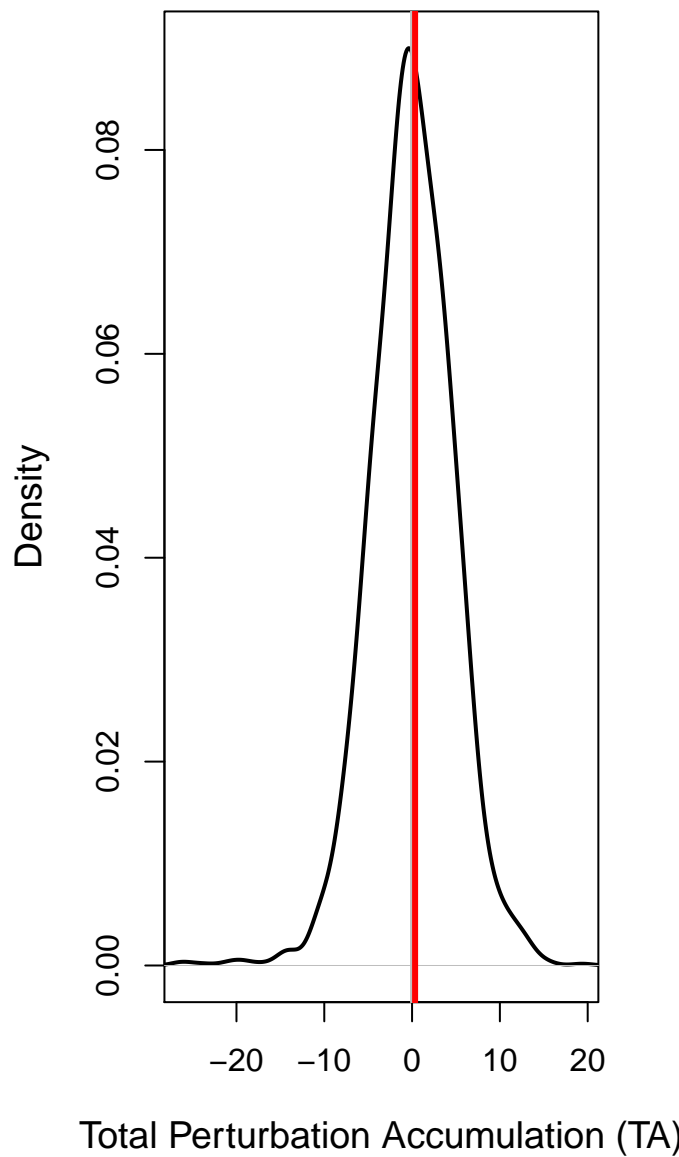
pathway ID=05032 P PERT=0.488



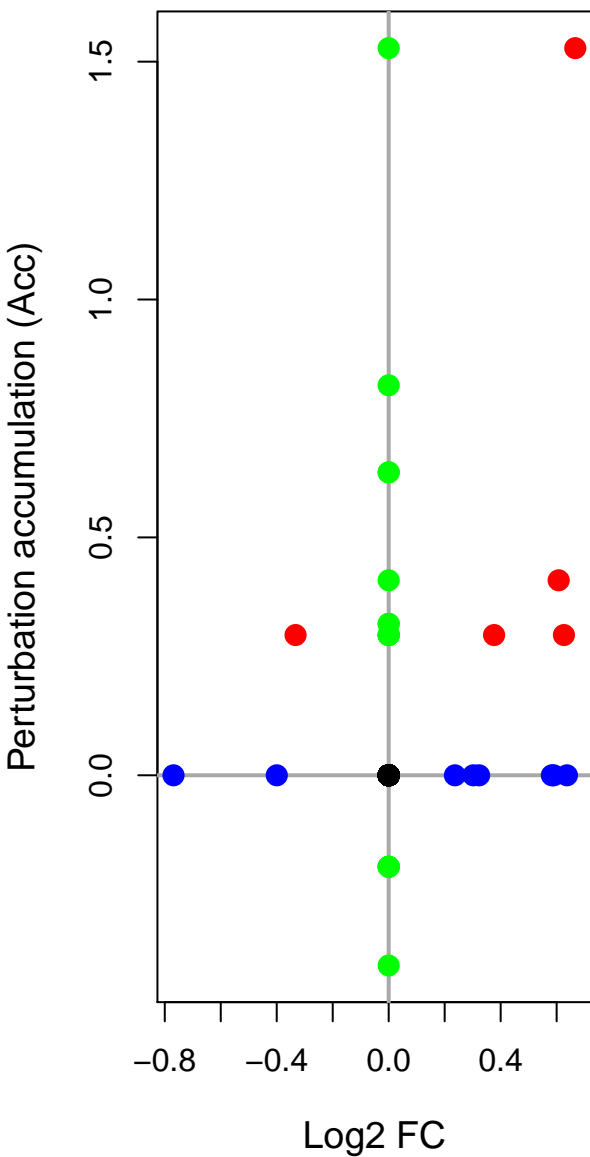
pathway ID=05034



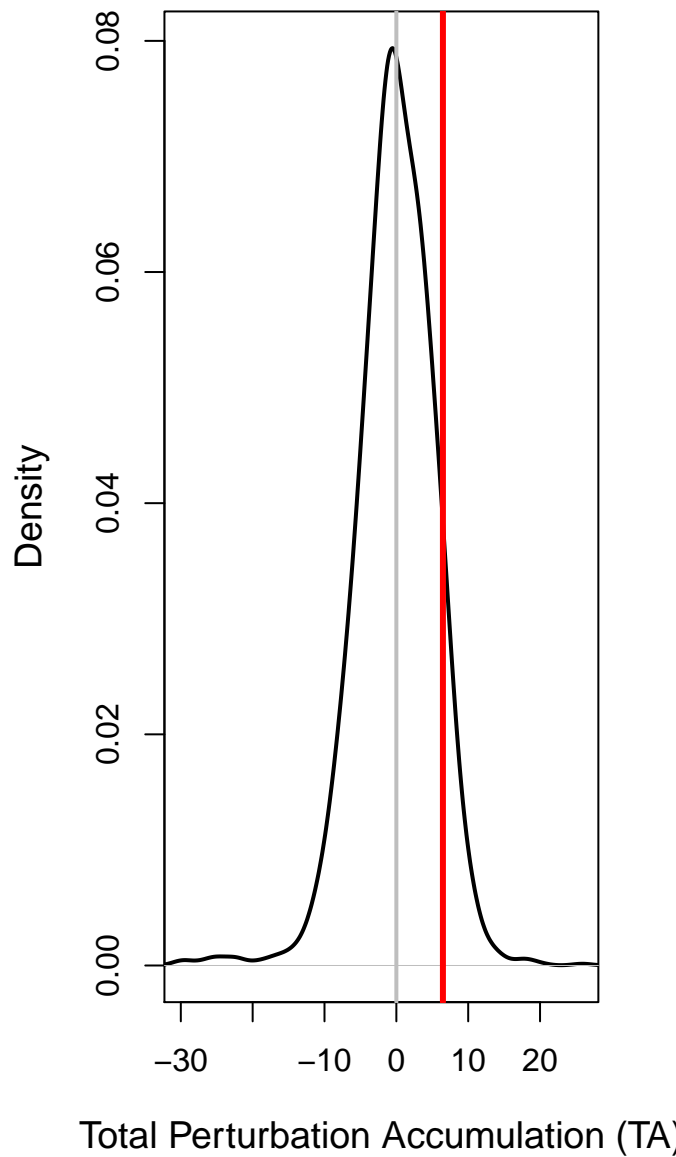
pathway ID=05034 P PERT=0.931



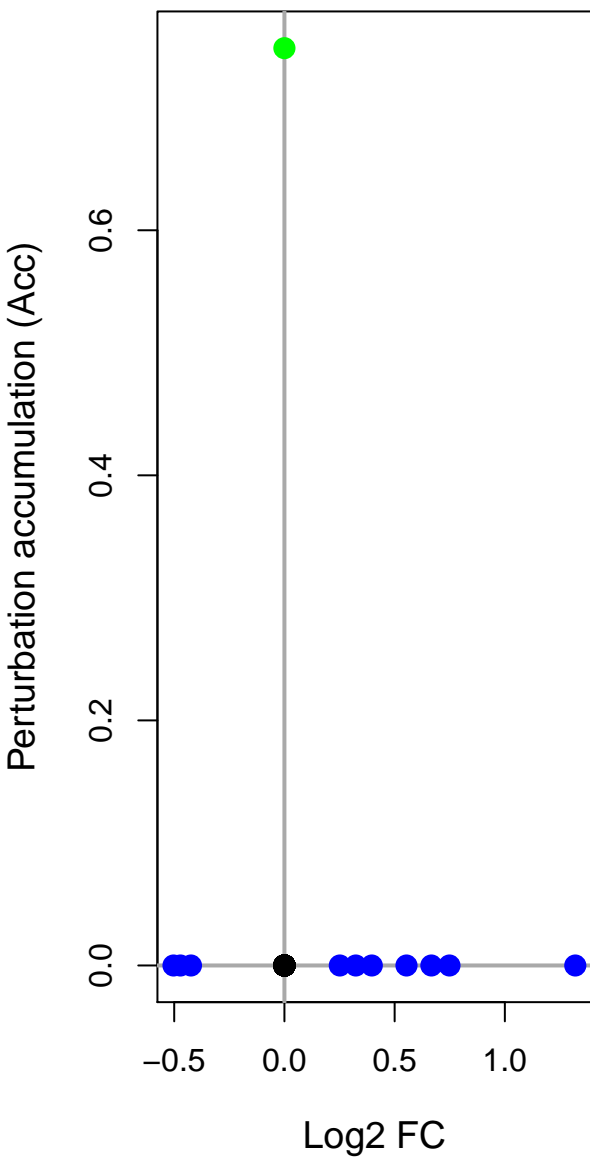
pathway ID=05100



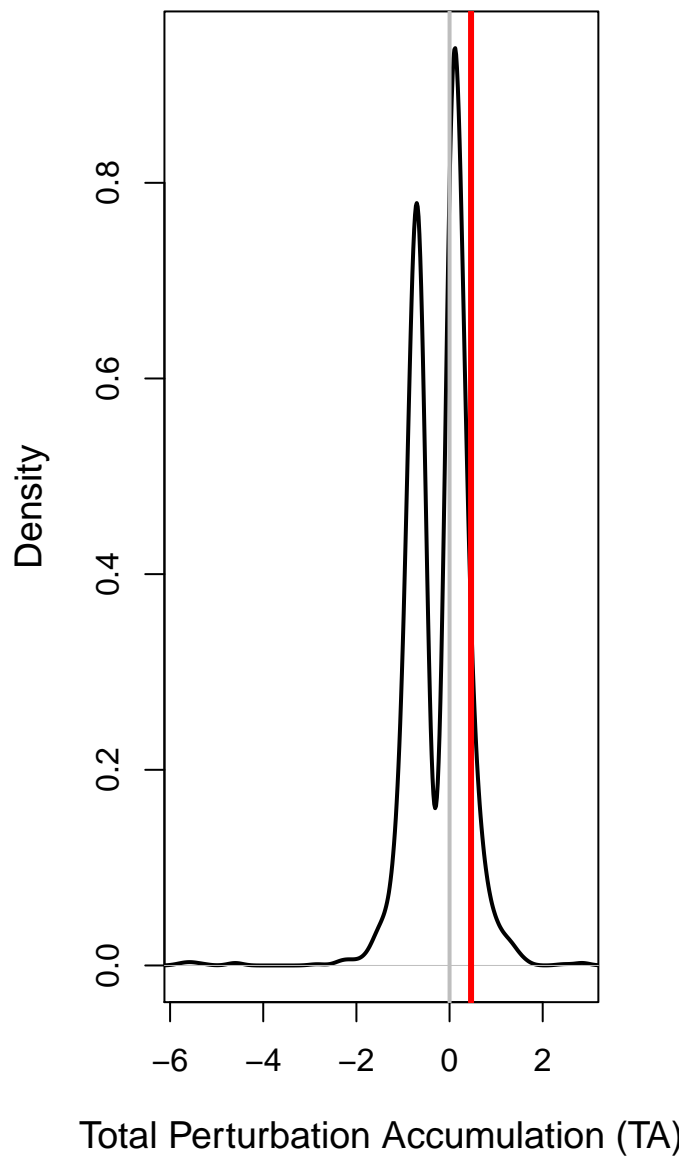
pathway ID=05100 P PERT=0.185



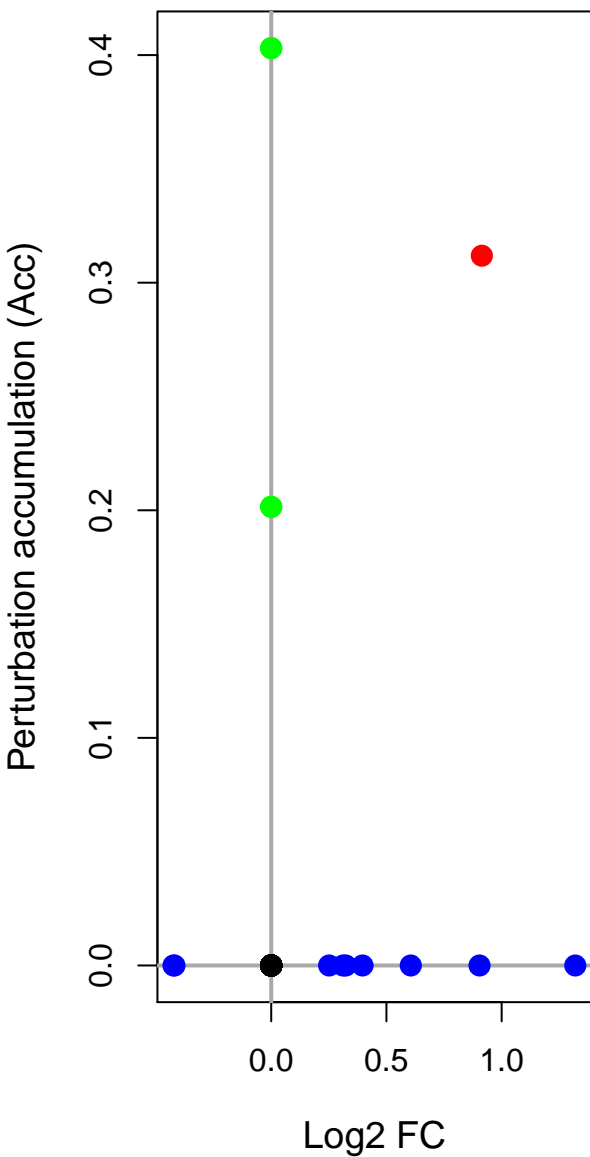
pathway ID=05110



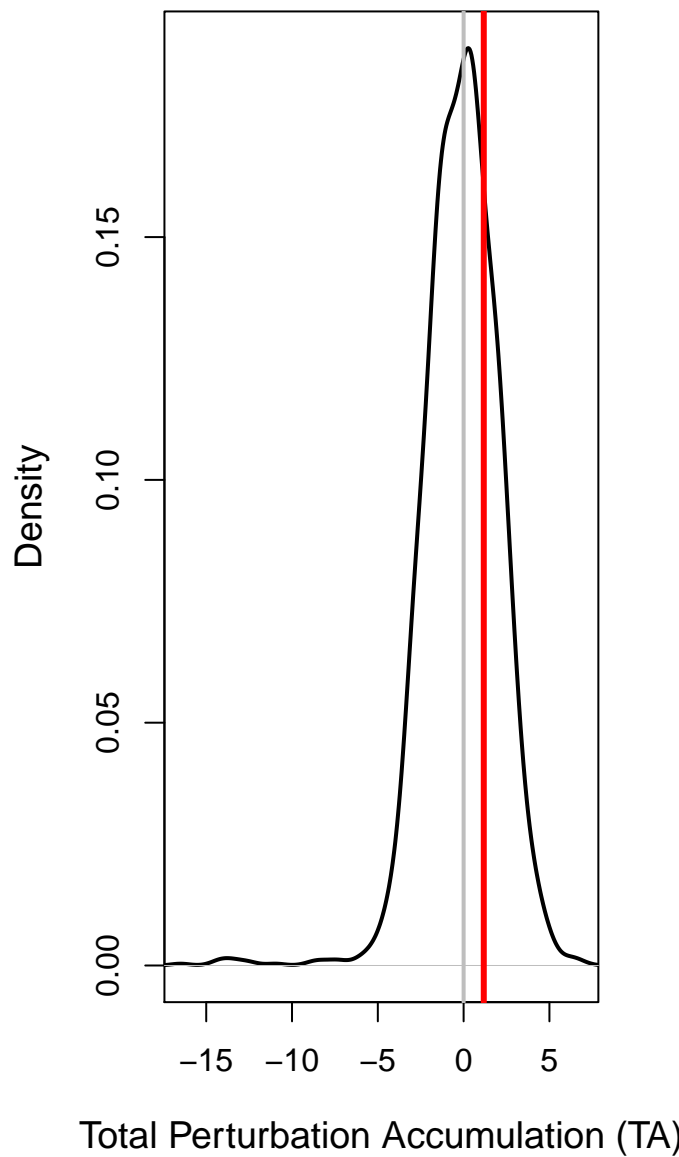
pathway ID=05110 P PERT=0.151



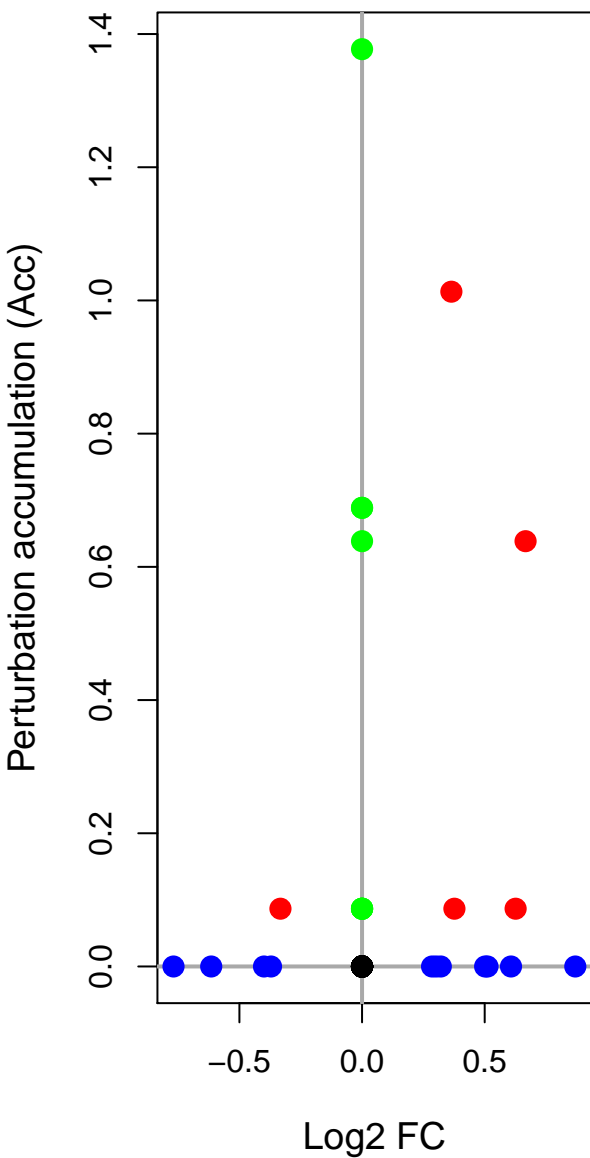
pathway ID=05120



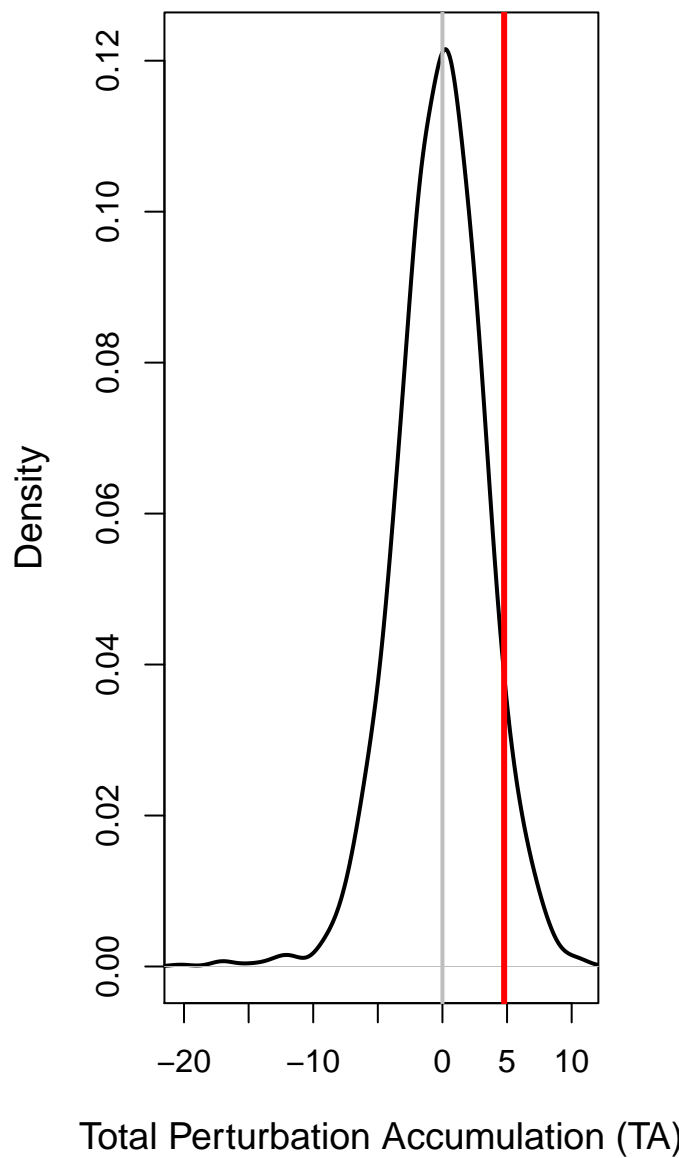
pathway ID=05120 P PERT=0.546



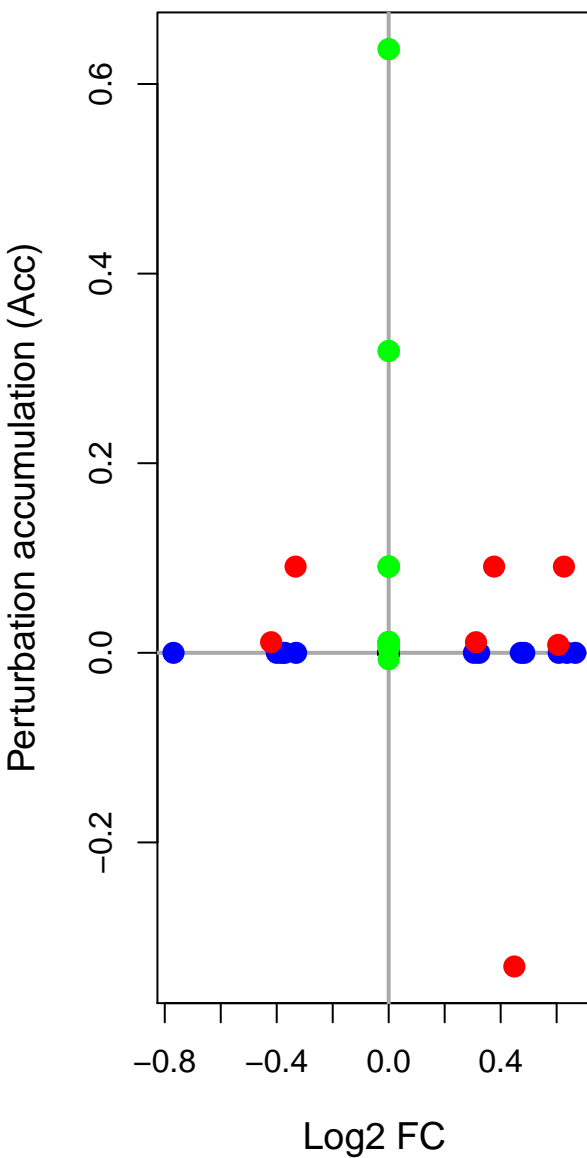
pathway ID=05130



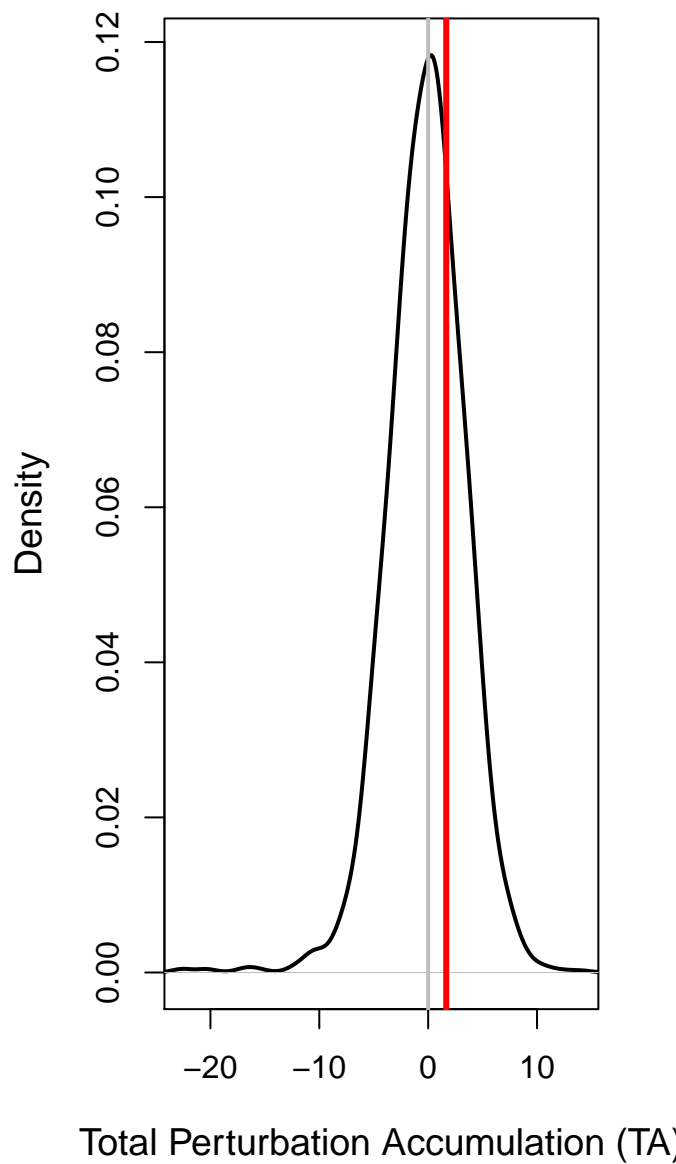
pathway ID=05130 P PERT=0.131



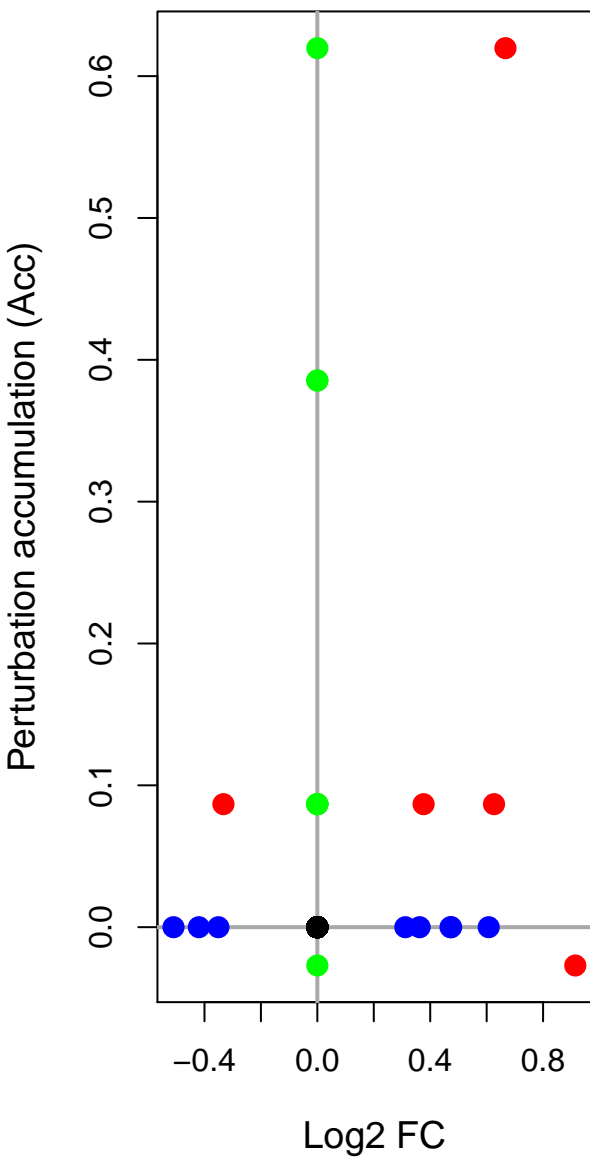
pathway ID=05131



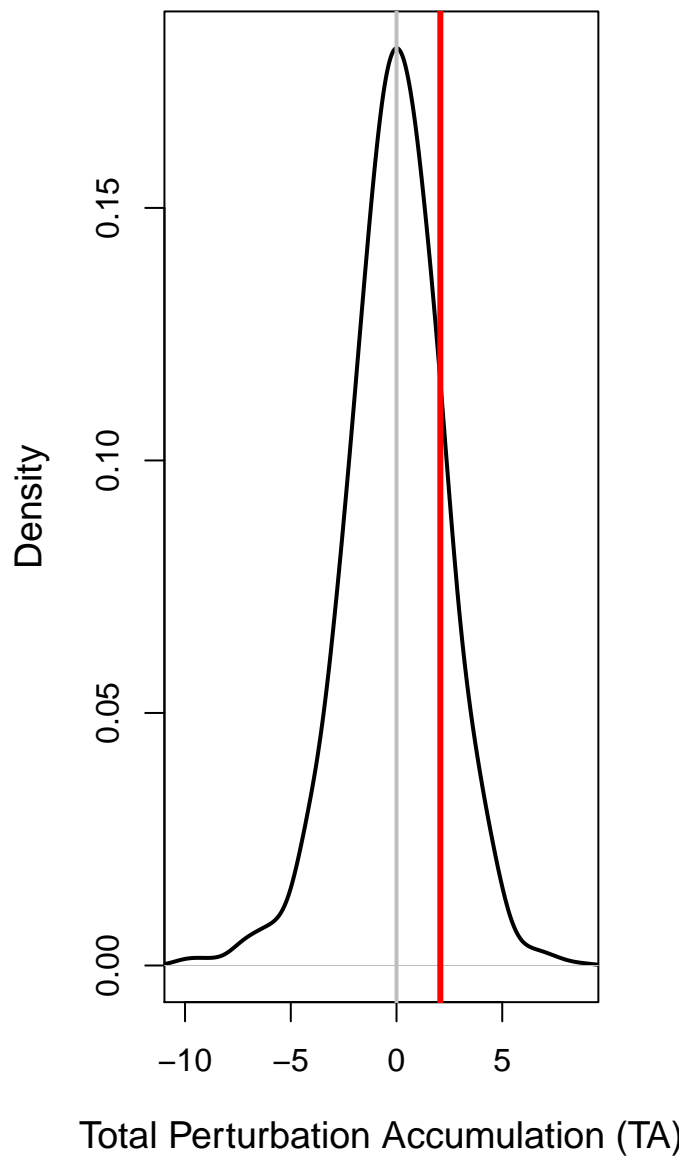
pathway ID=05131 P PERT=0.594



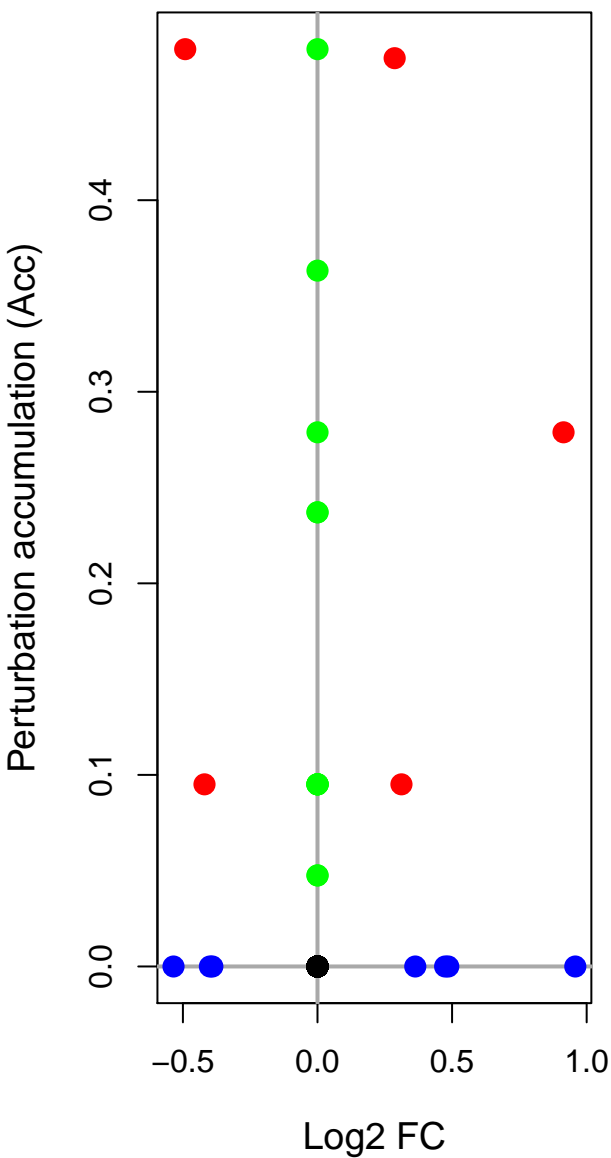
pathway ID=05132



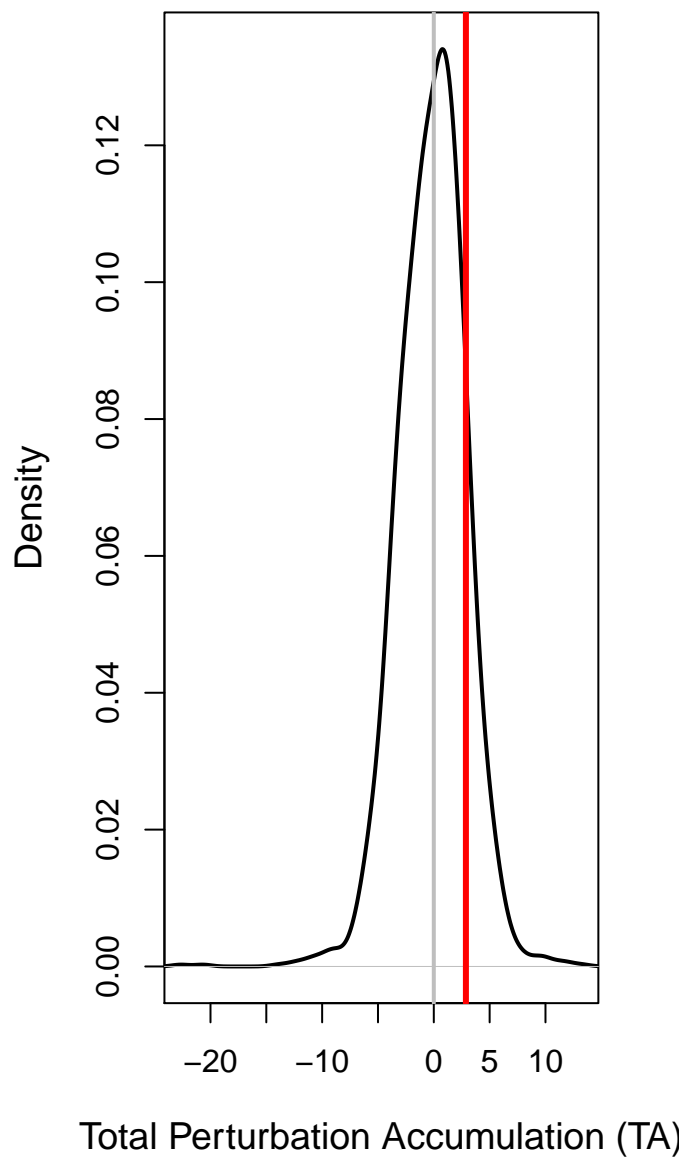
pathway ID=05132 P PERT=0.338



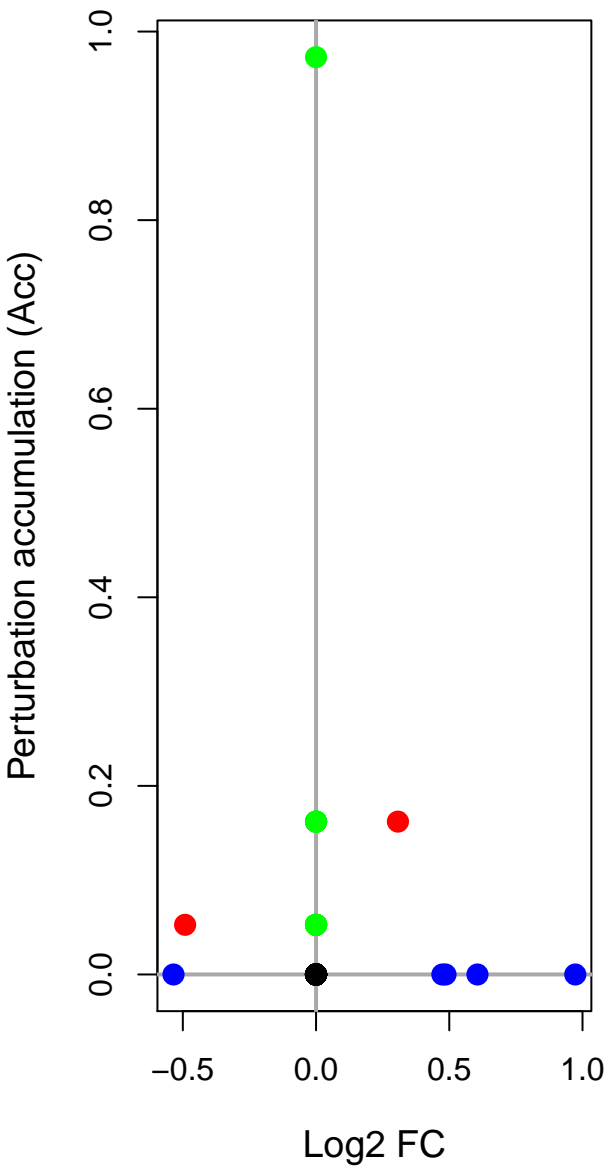
pathway ID=05133



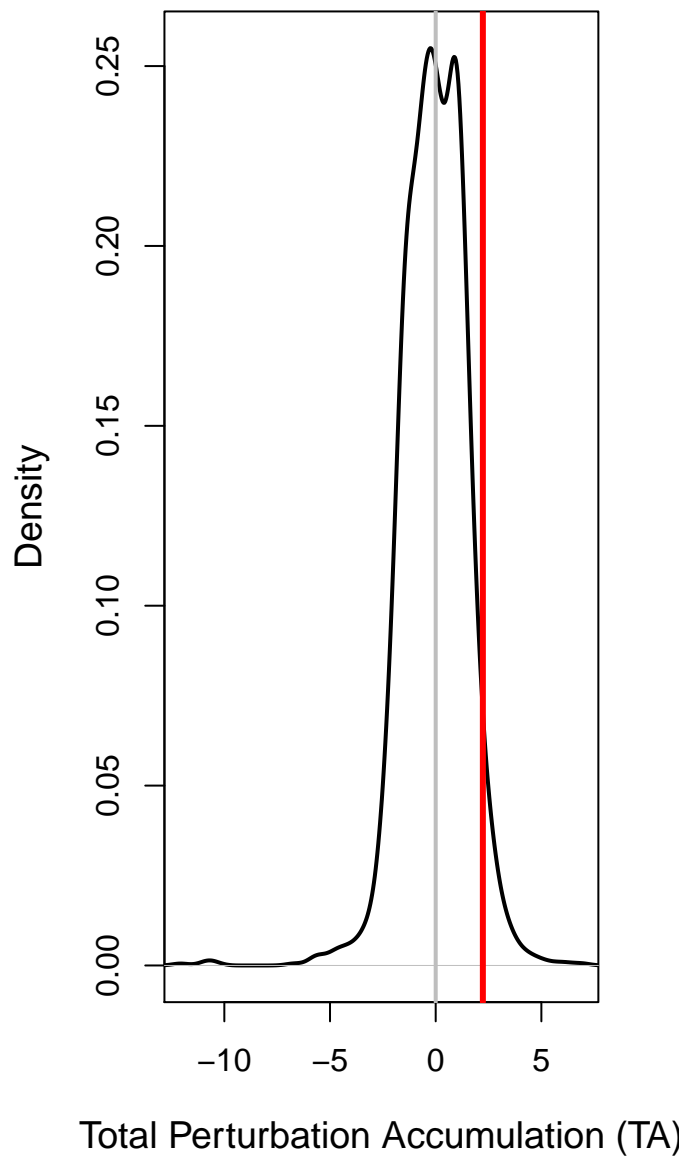
pathway ID=05133 P PERT=0.281



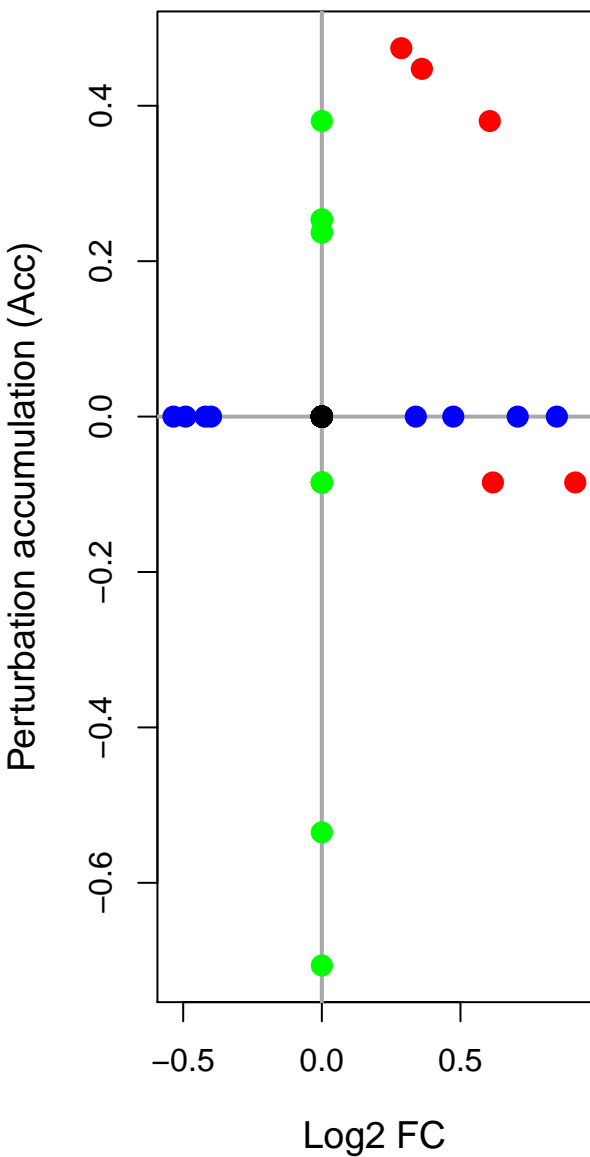
pathway ID=05134



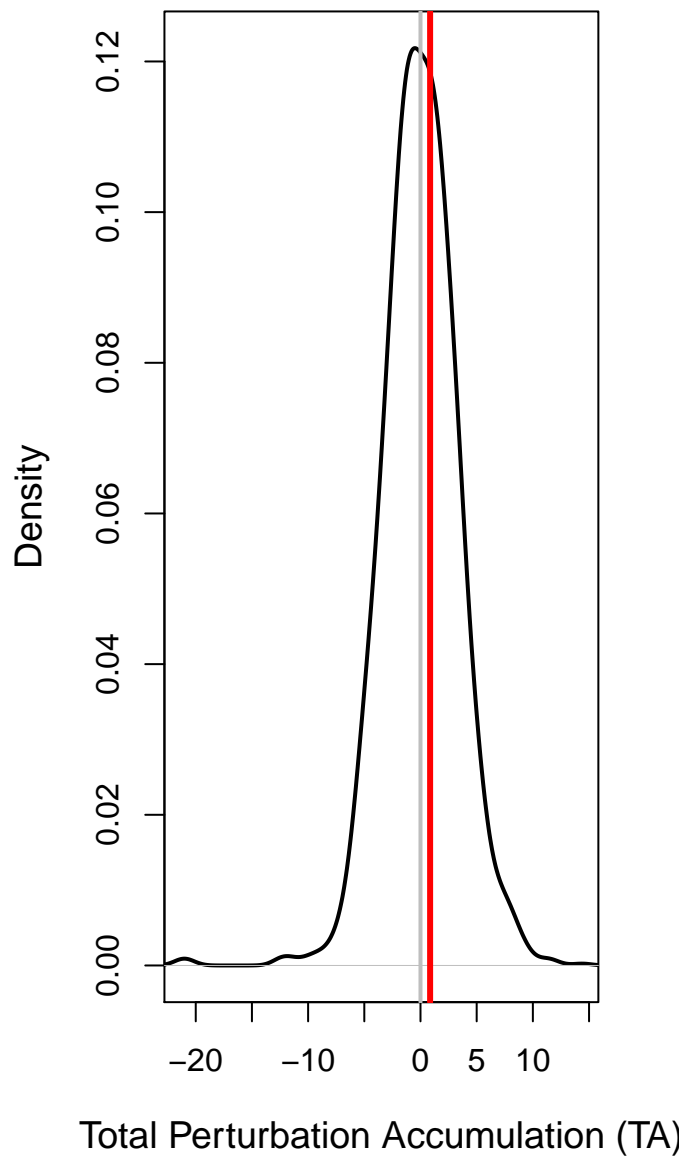
pathway ID=05134 P PERT=0.091



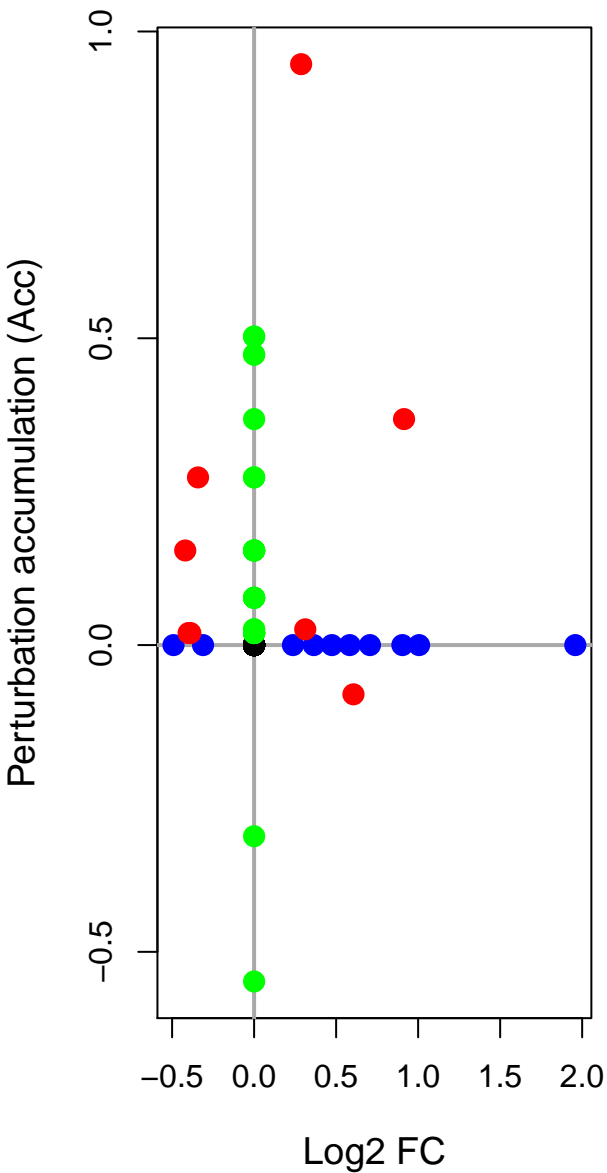
pathway ID=05140



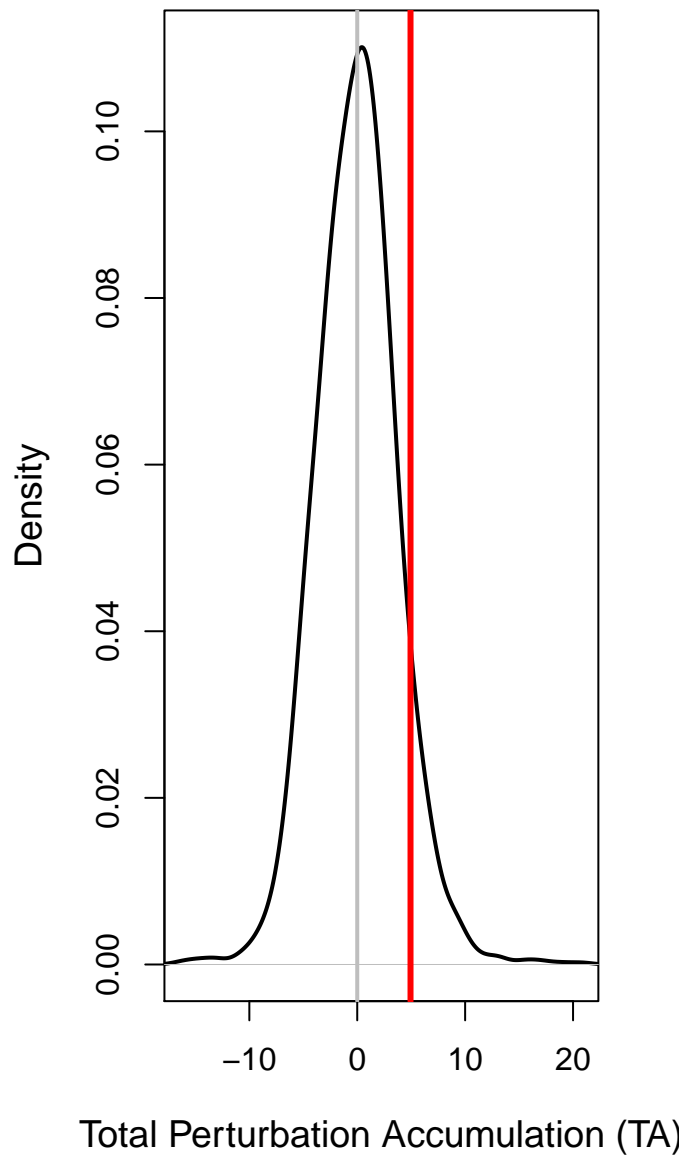
pathway ID=05140 P PERT=0.793



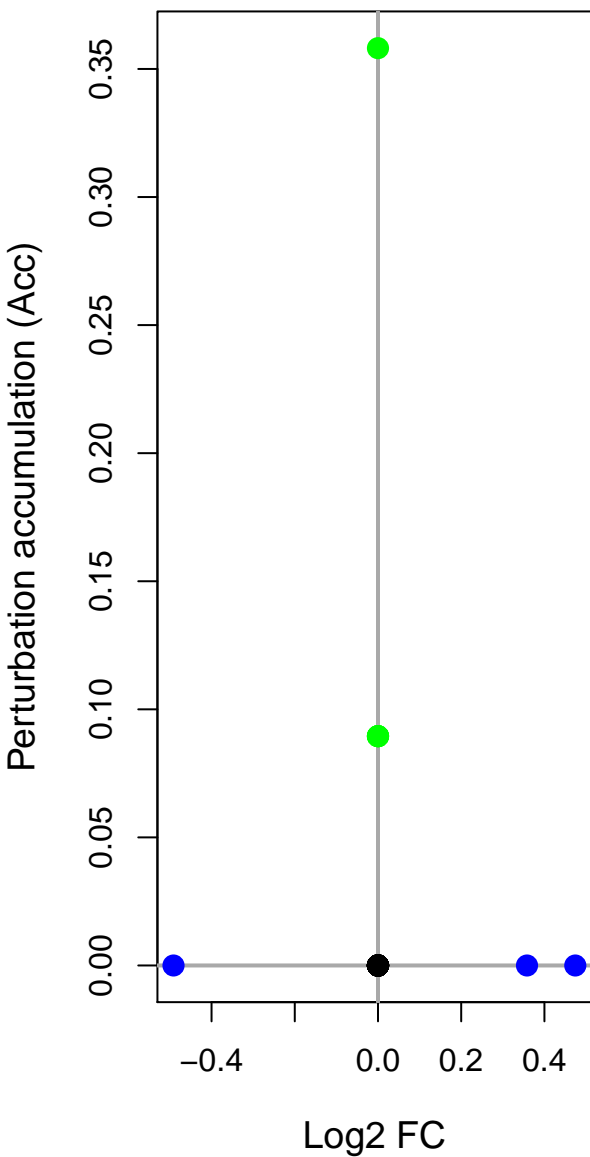
pathway ID=05142



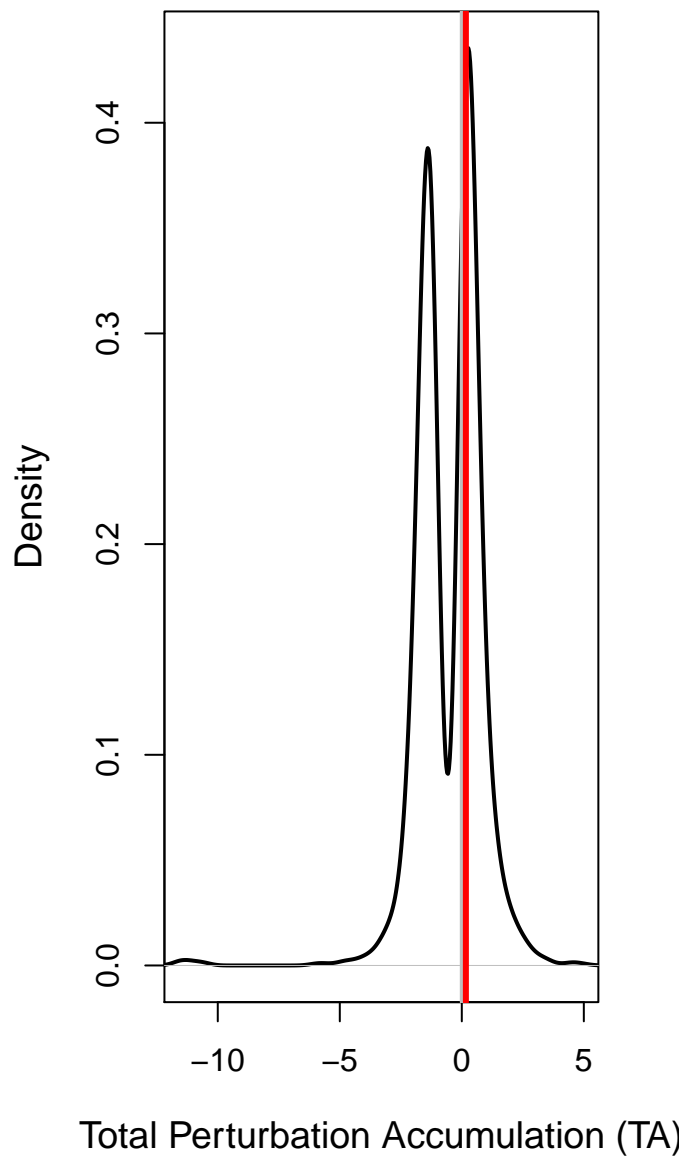
pathway ID=05142 P PERT=0.169



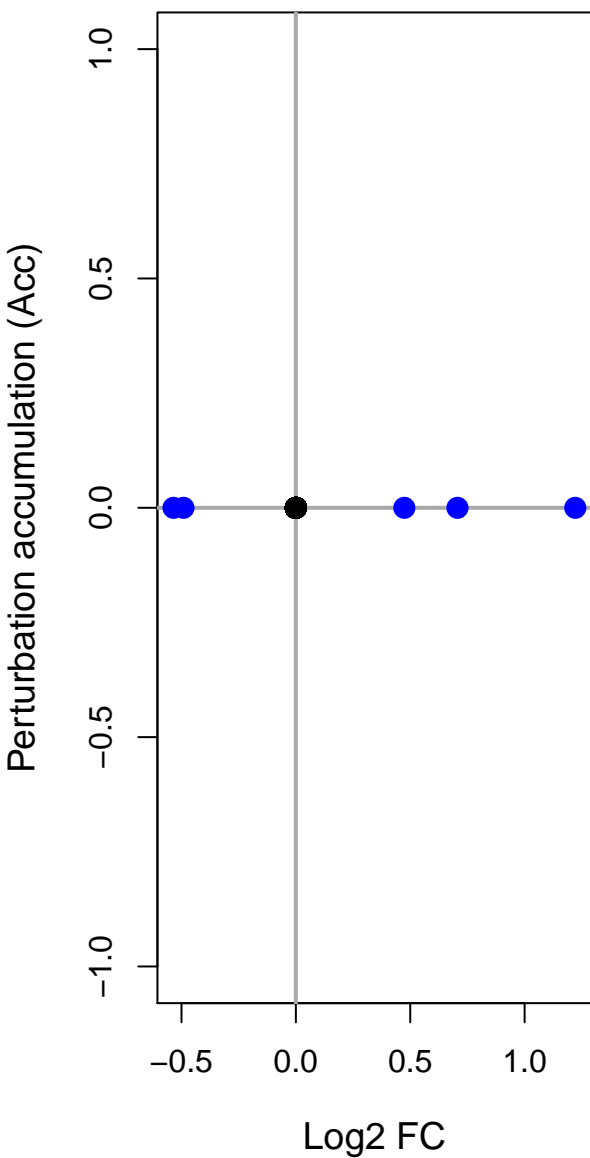
pathway ID=05143



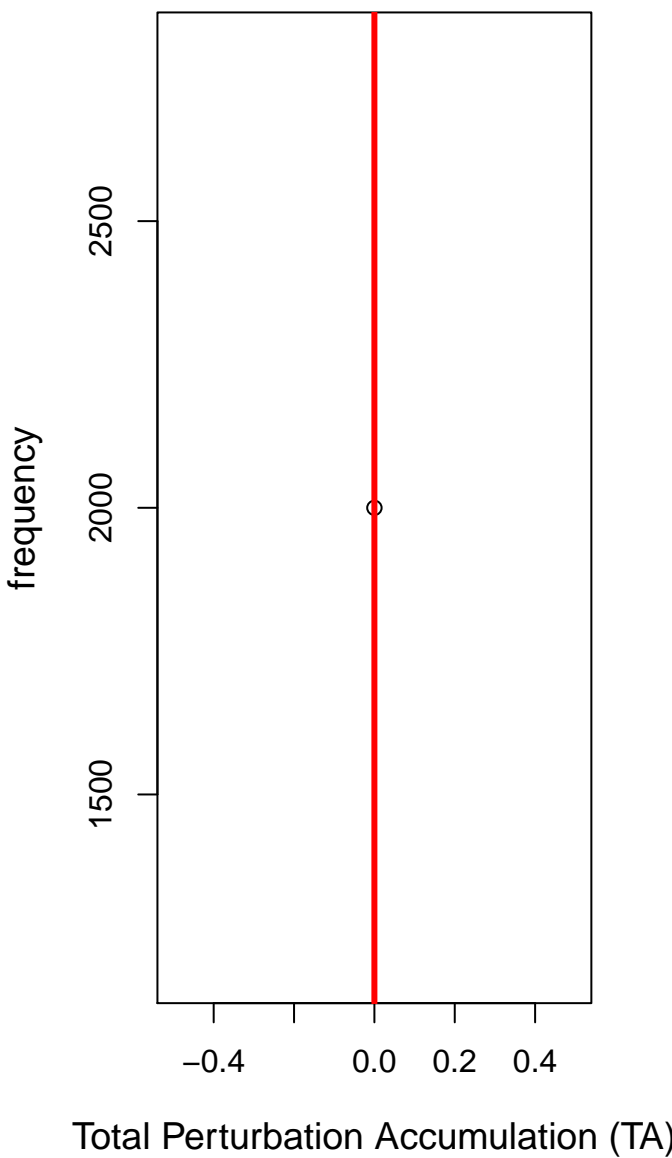
pathway ID=05143 P PERT=0.751



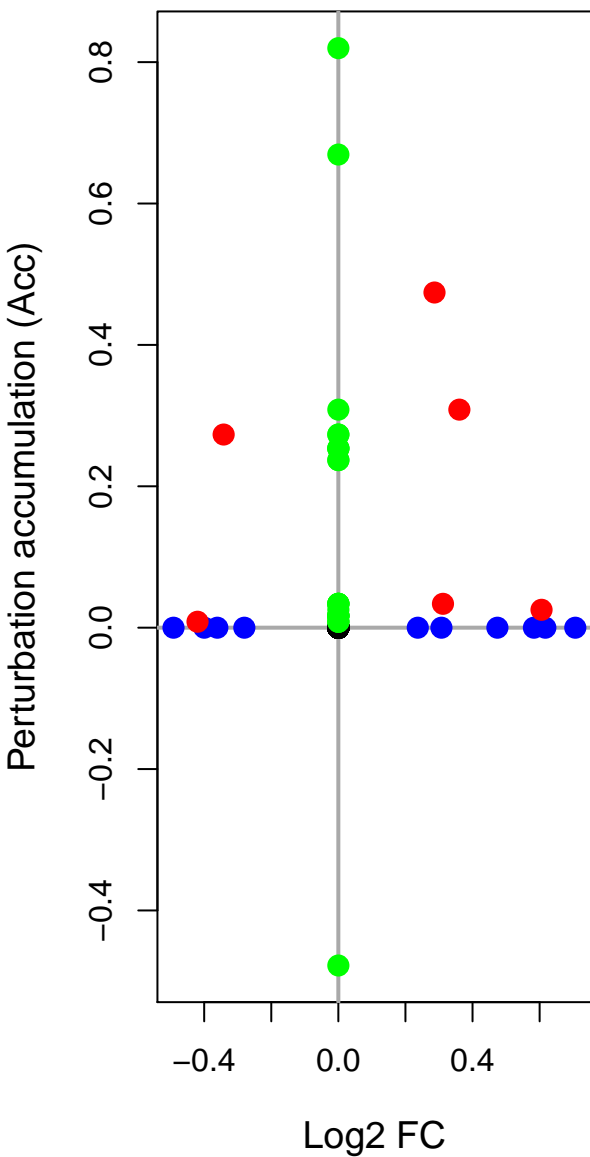
pathway ID=05144



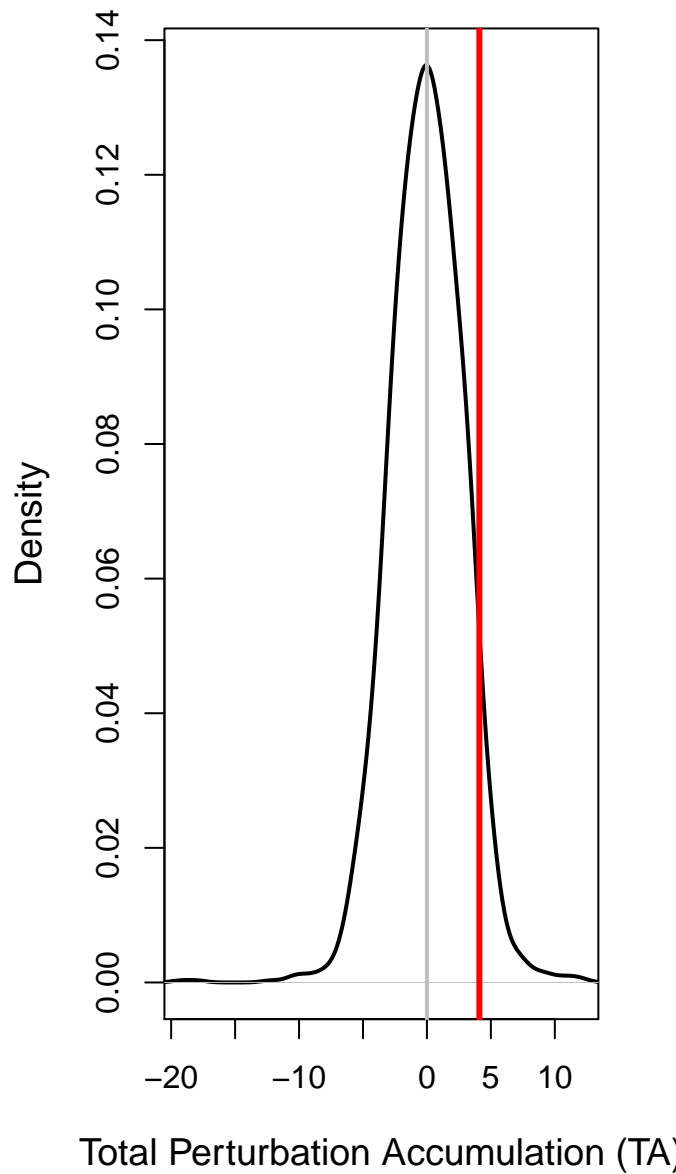
pathway ID=05144 P PERT=NA



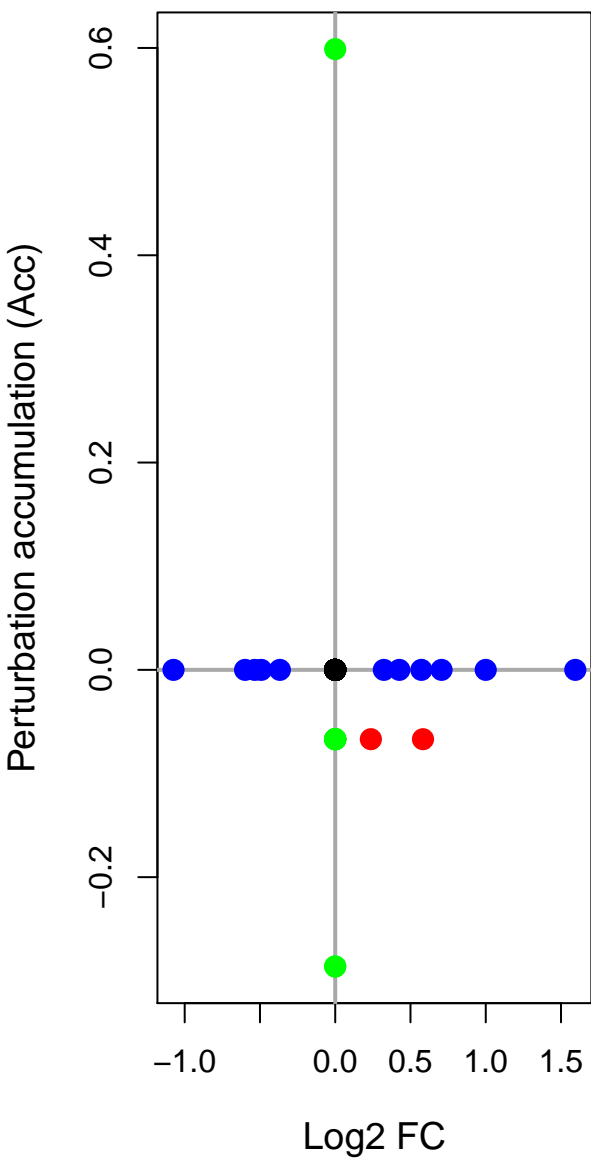
pathway ID=05145



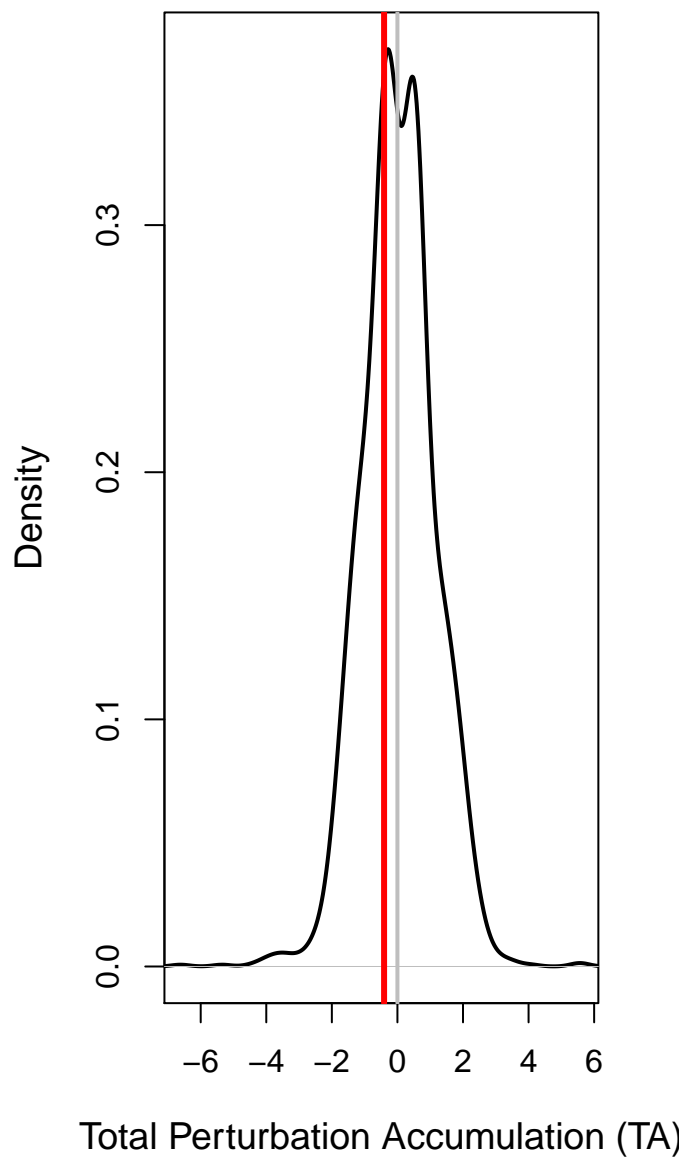
pathway ID=05145 P PERT=0.126



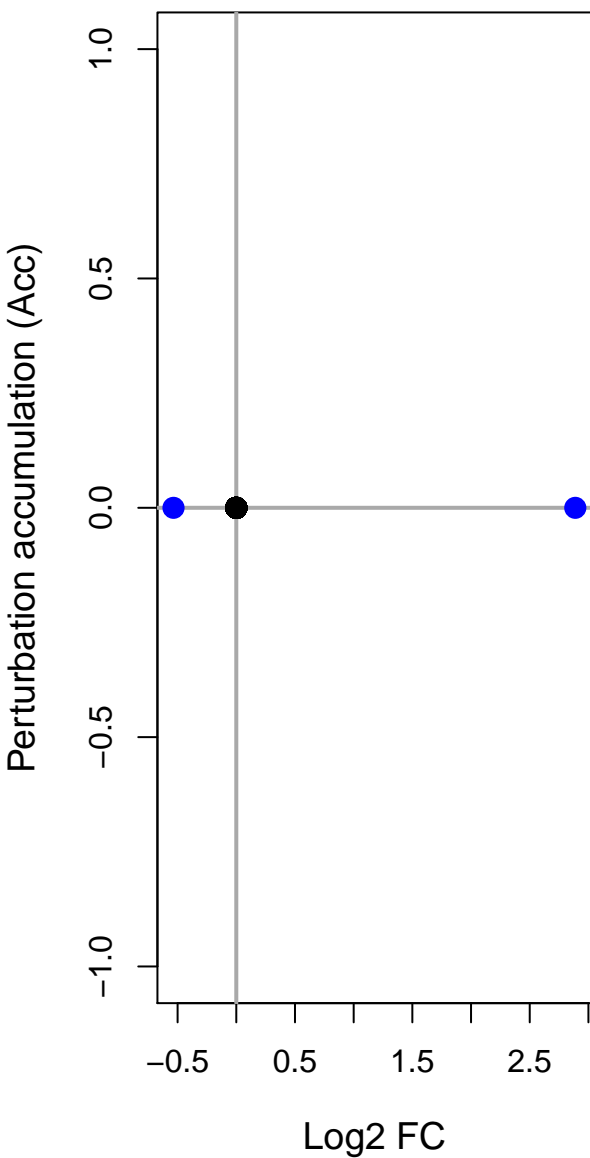
pathway ID=05146



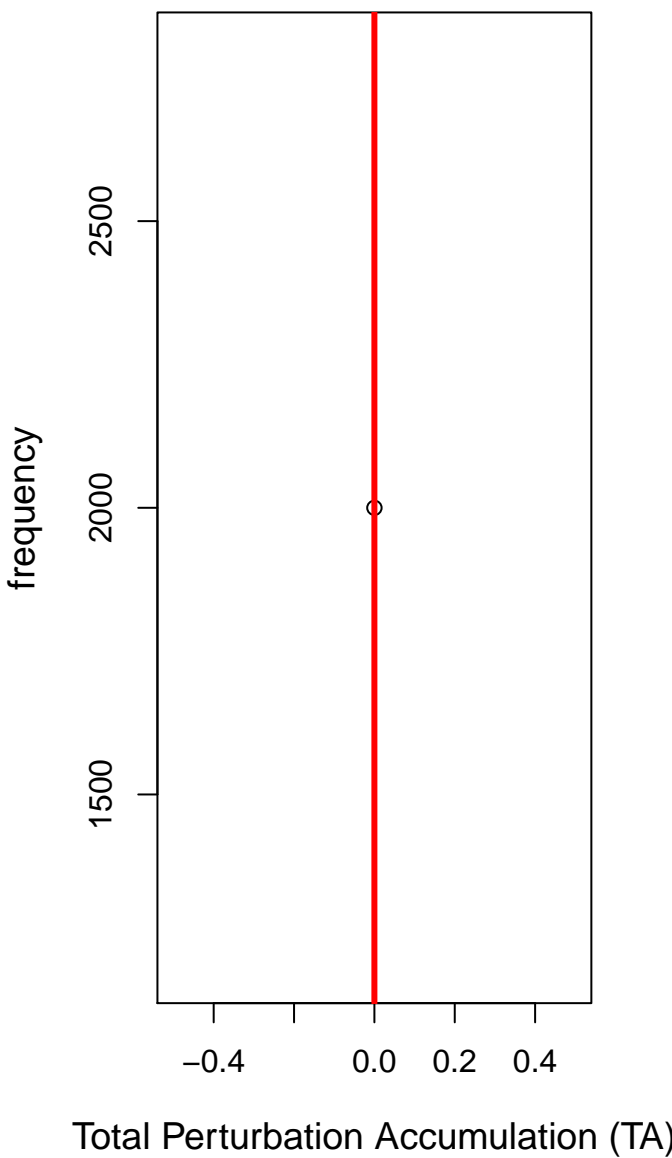
pathway ID=05146 P PERT=0.666



pathway ID=05150



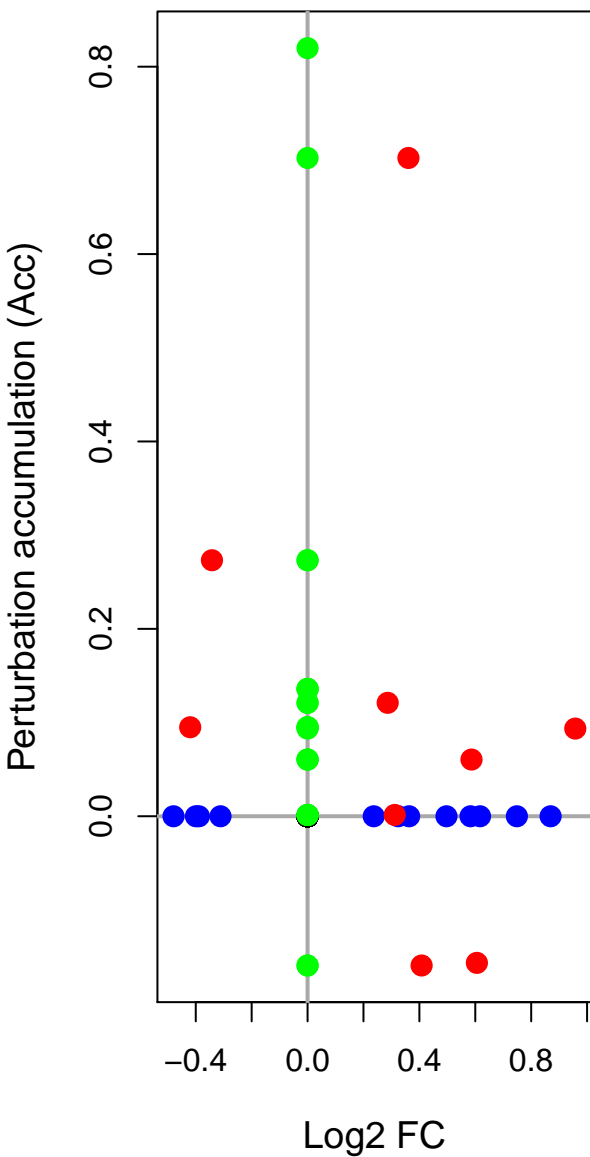
pathway ID=05150 P PERT=NA



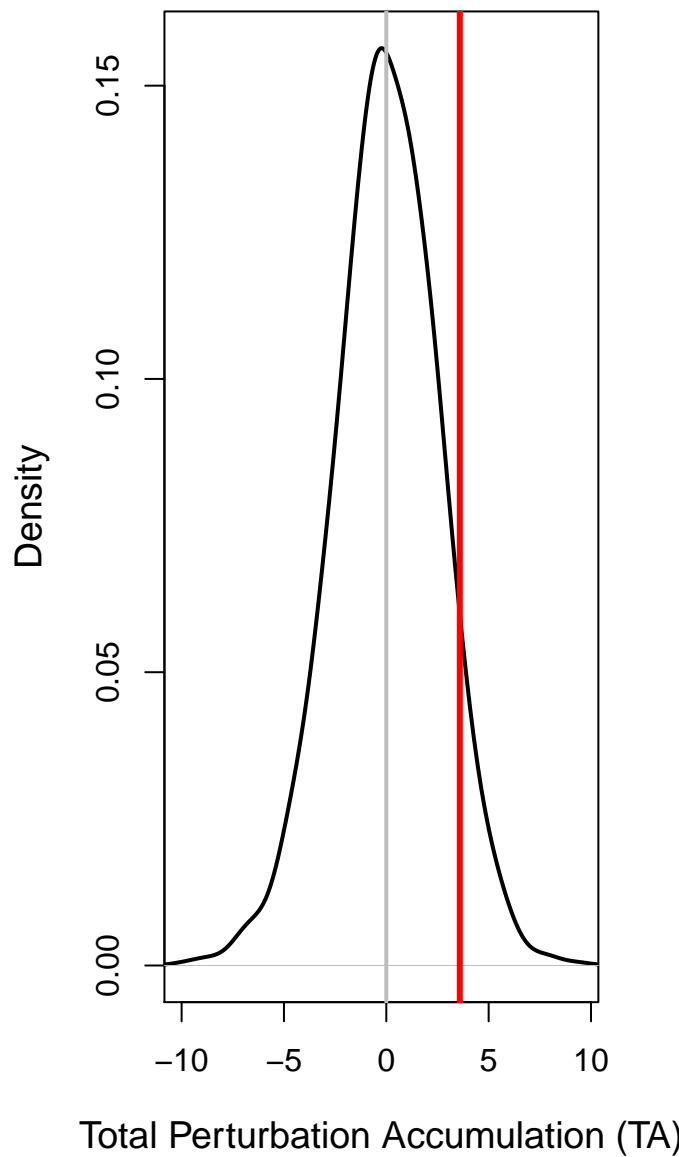
Total Perturbation Accumulation (TA)

A plot of a normal distribution curve. The x-axis ranges from -20 to 20 with major ticks at -20, -10, 0, 10, and 20. The y-axis ranges from 0.00 to 0.06 with major ticks at 0.00, 0.02, 0.04, and 0.06. A vertical red line is positioned at approximately x = 4, representing the mean. A vertical grey line is positioned at x = 0, representing the median. The curve is symmetric and bell-shaped, peaking at x = 0.

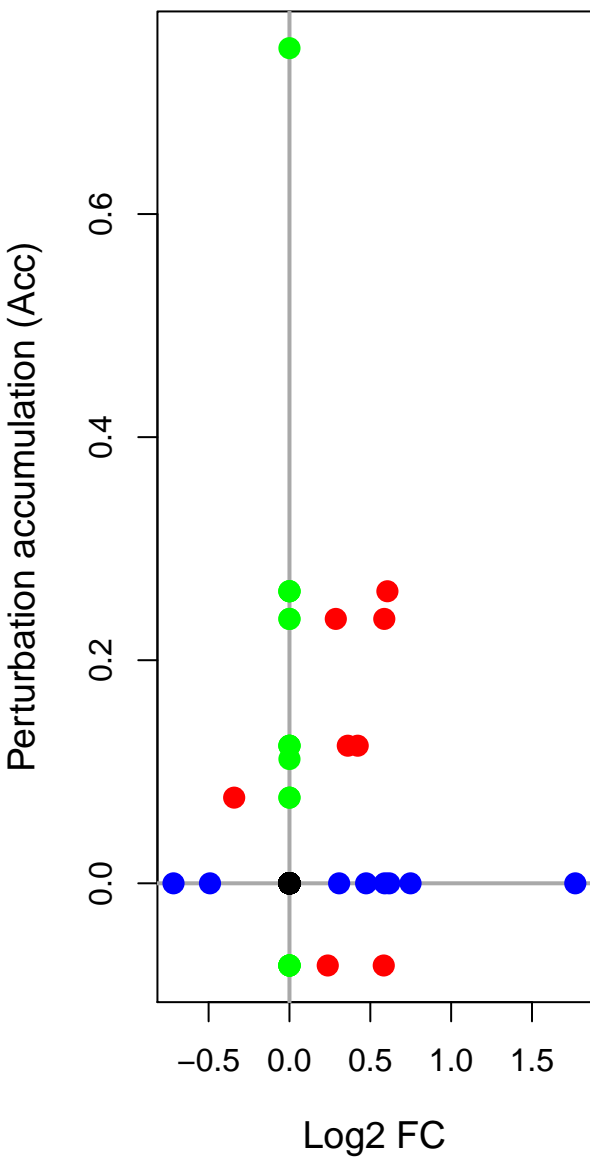
pathway ID=05160



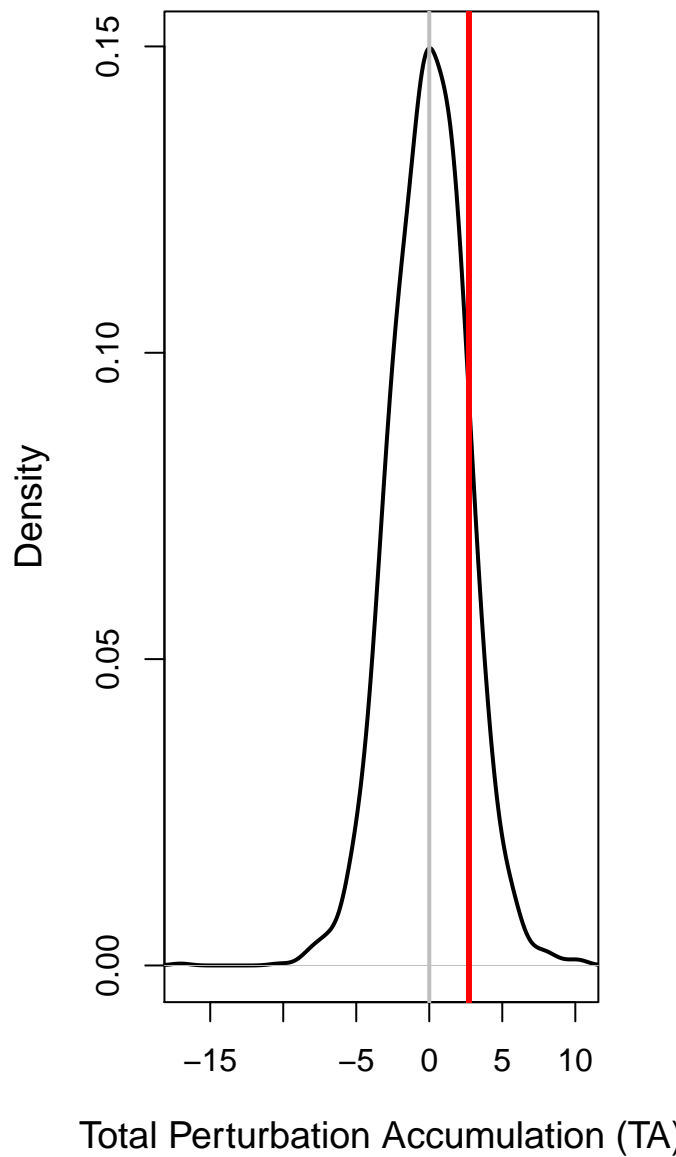
pathway ID=05160 P PERT=0.152



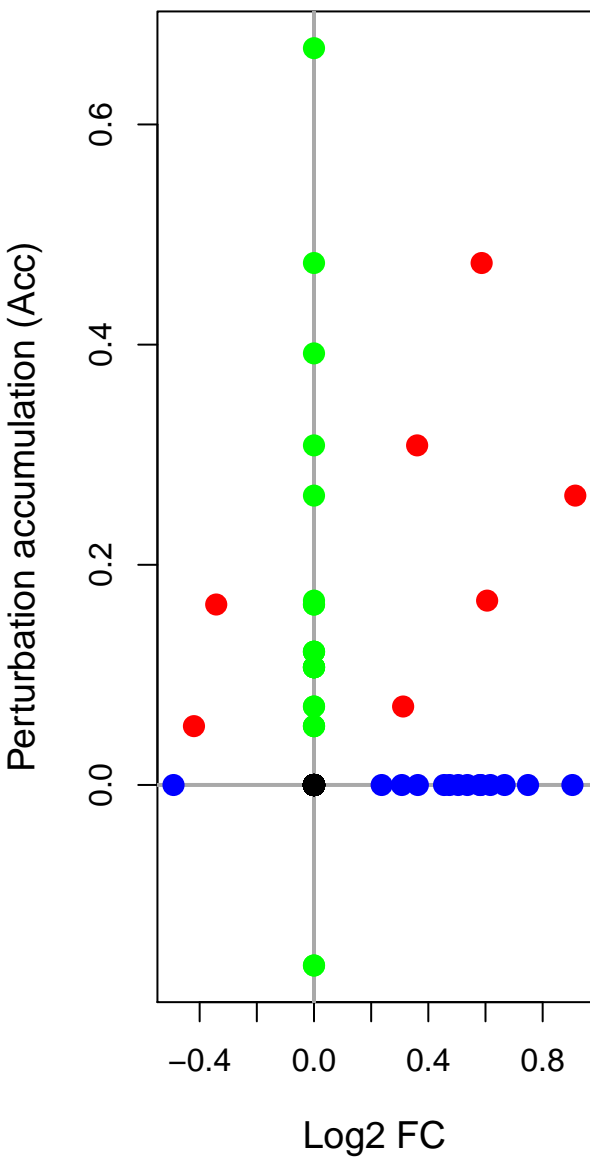
pathway ID=05162



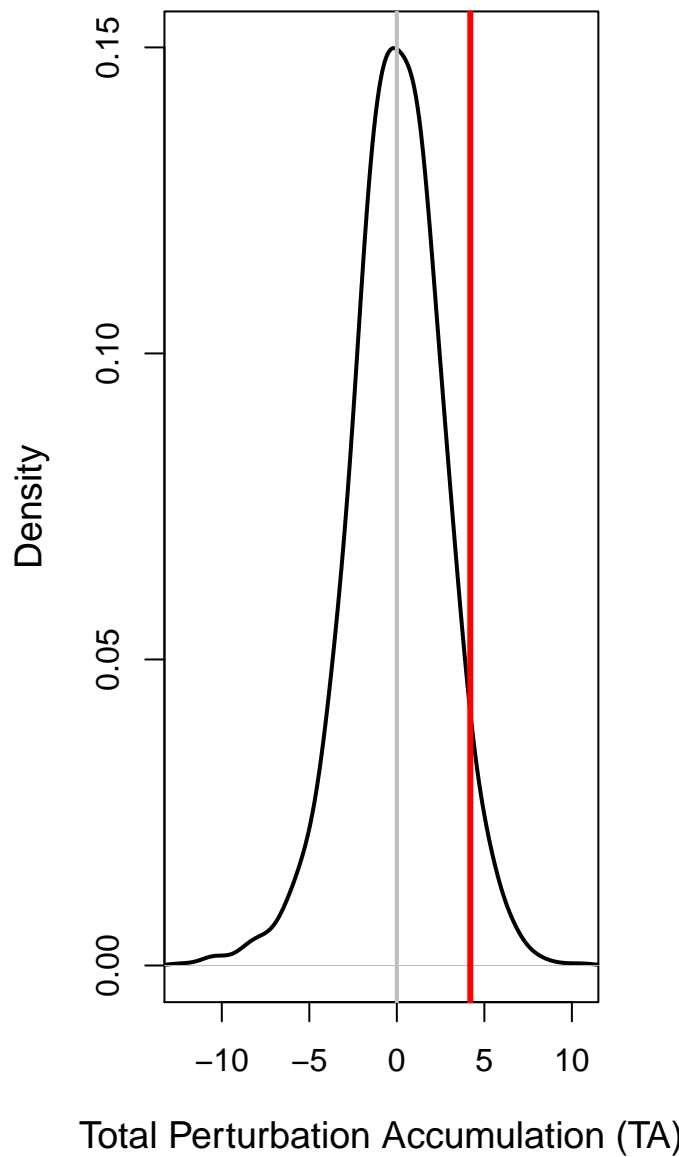
pathway ID=05162 P PERT=0.275



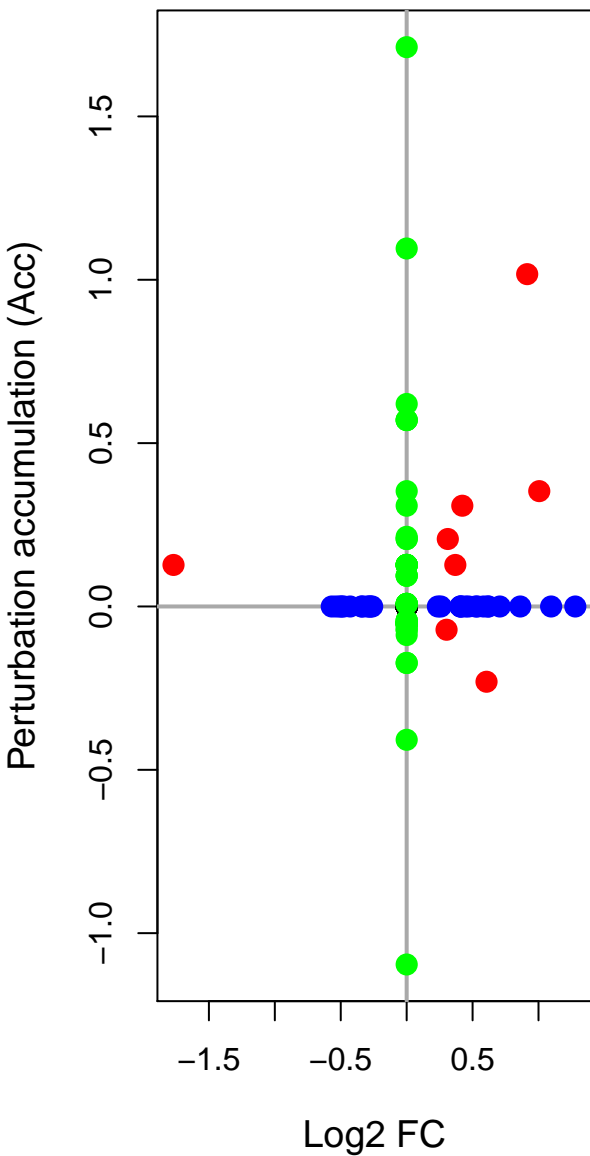
pathway ID=05164



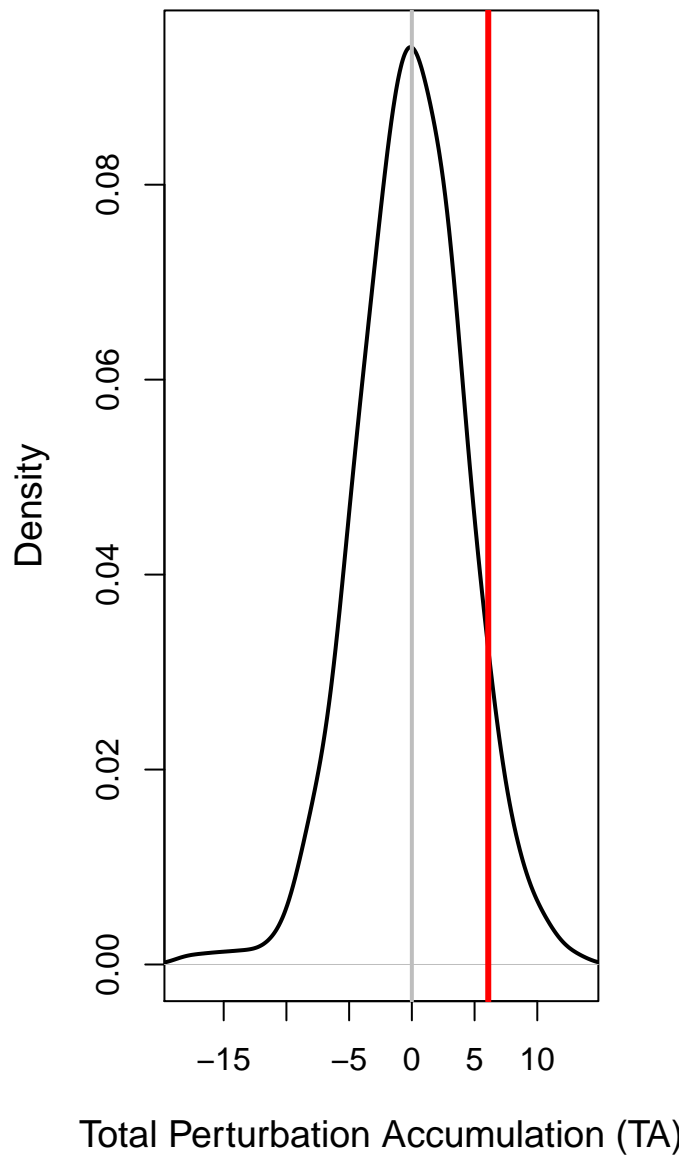
pathway ID=05164 P PERT=0.101



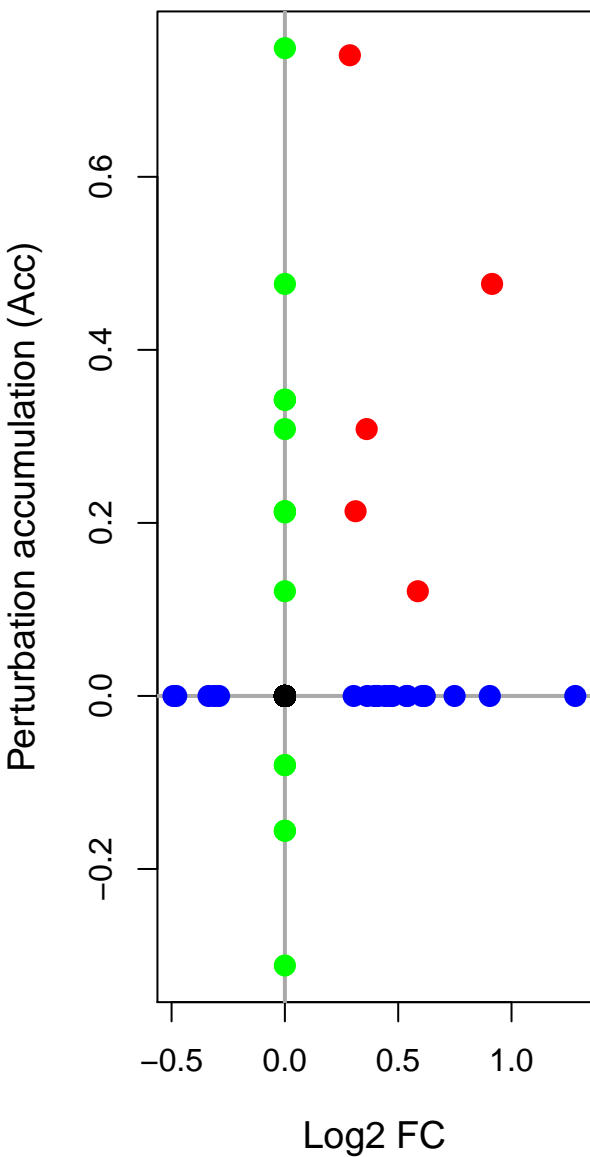
pathway ID=05166



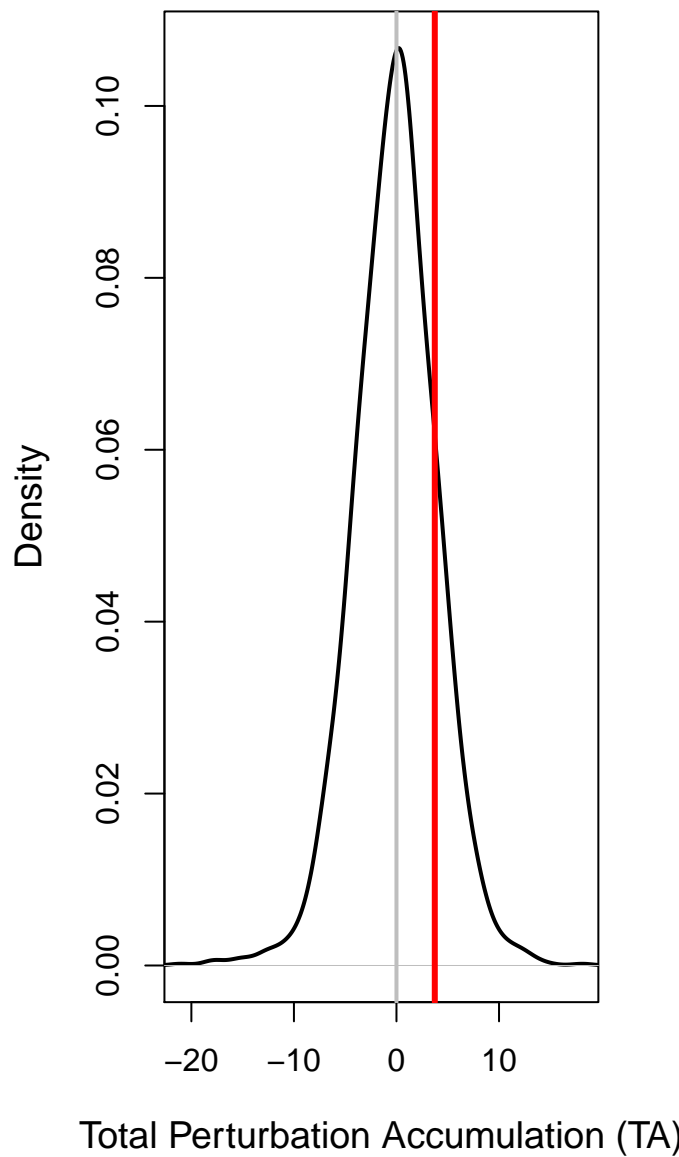
pathway ID=05166 P PERT=0.144



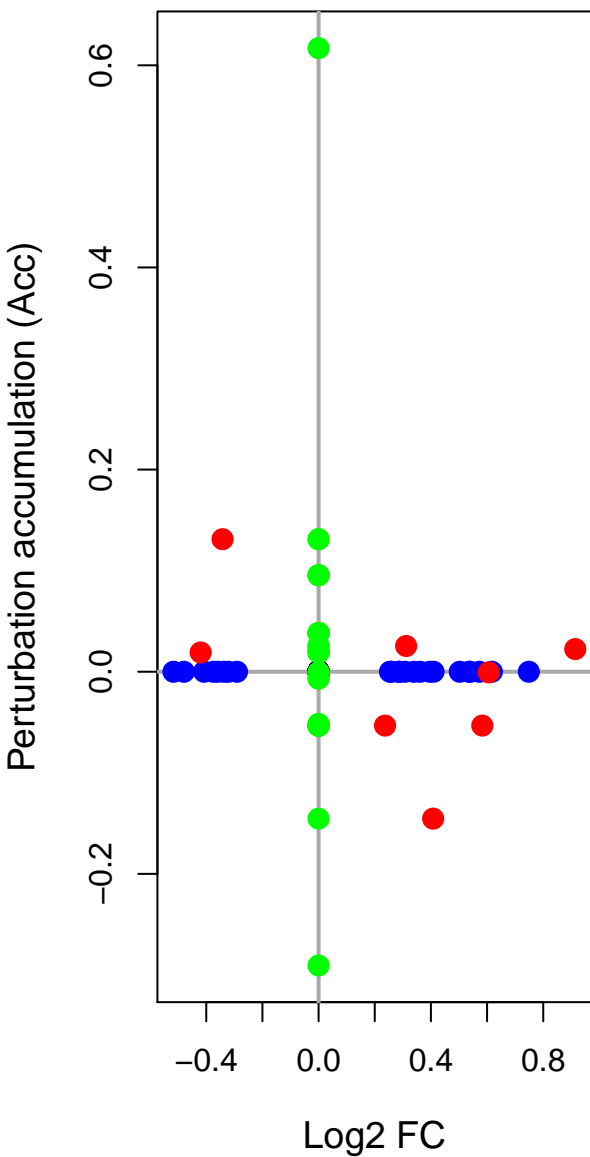
pathway ID=05168



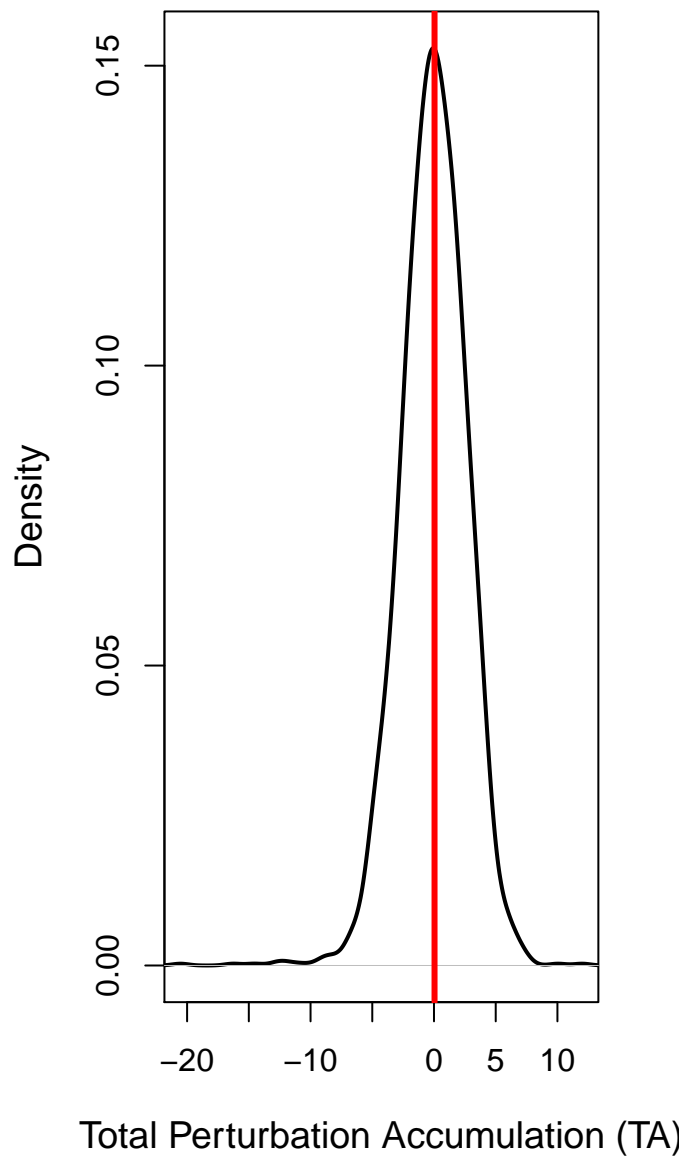
pathway ID=05168 P PERT=0.323



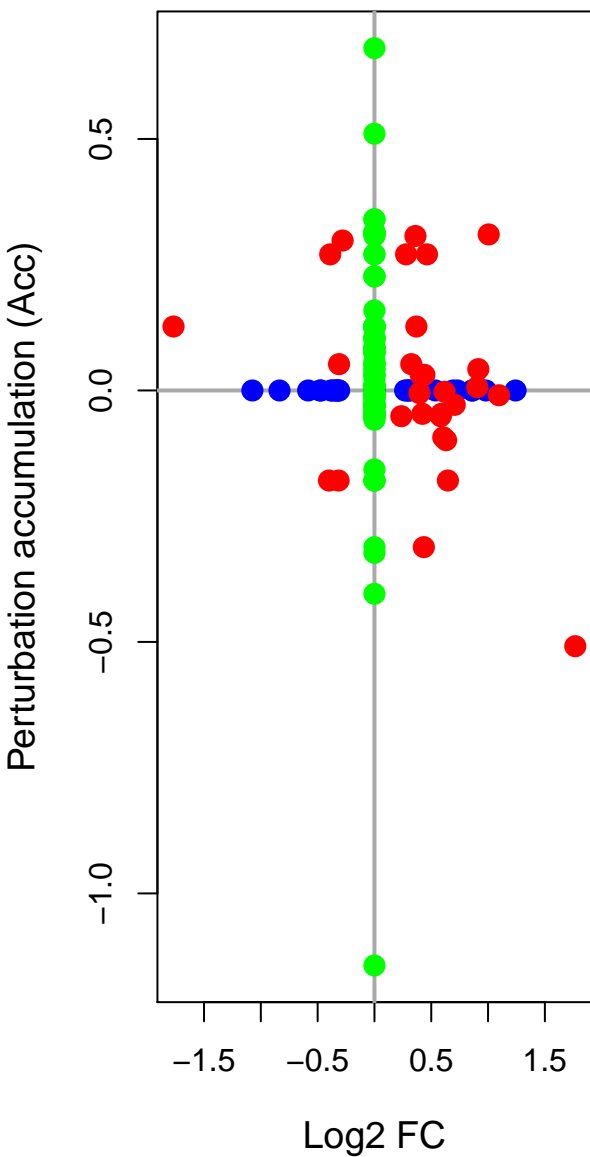
pathway ID=05169



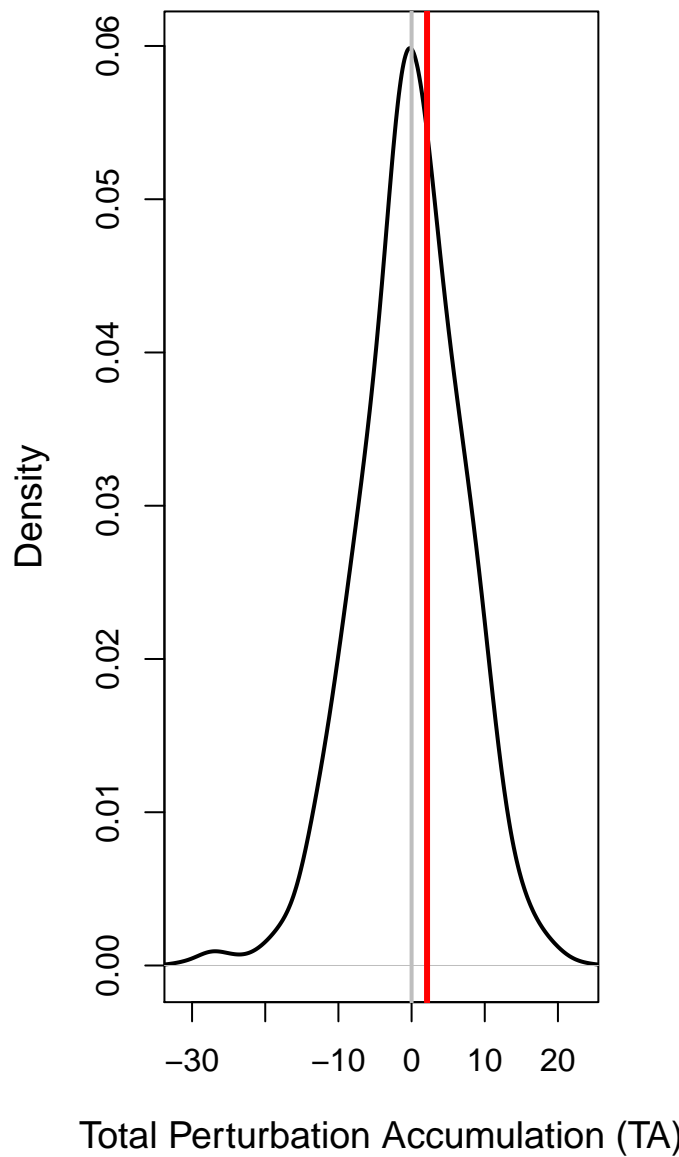
pathway ID=05169 P PERT=0.989



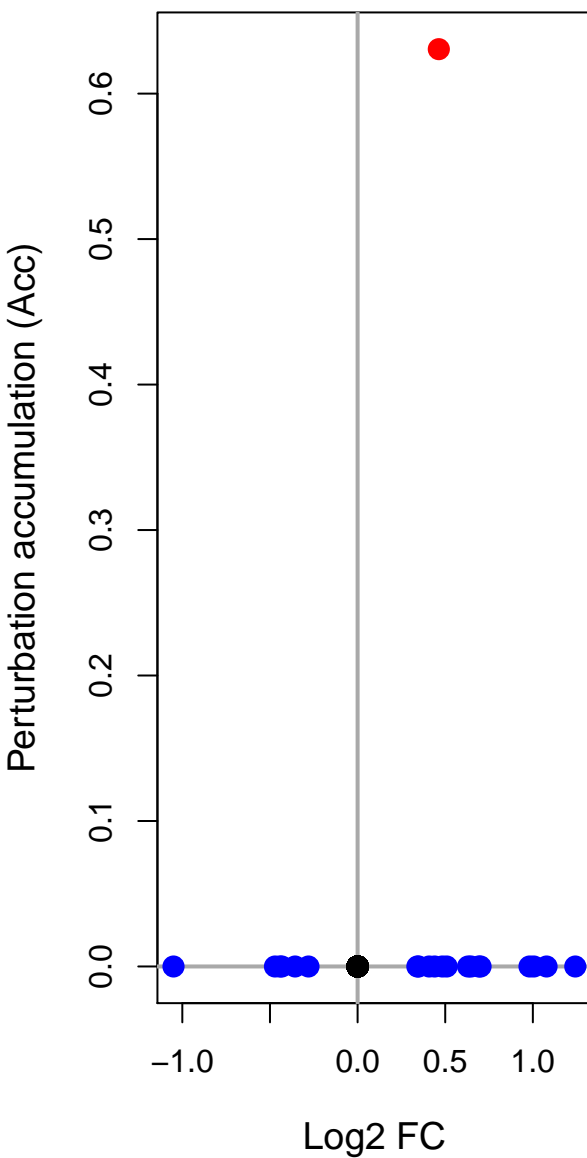
pathway ID=05200



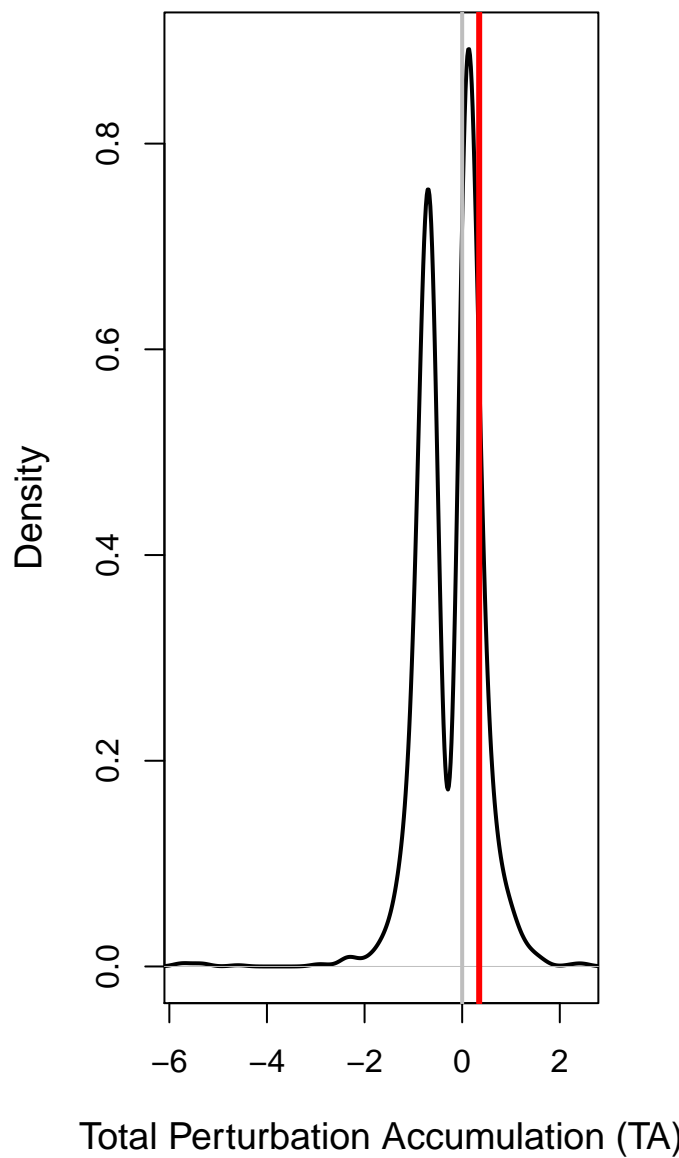
pathway ID=05200 P PERT=0.754



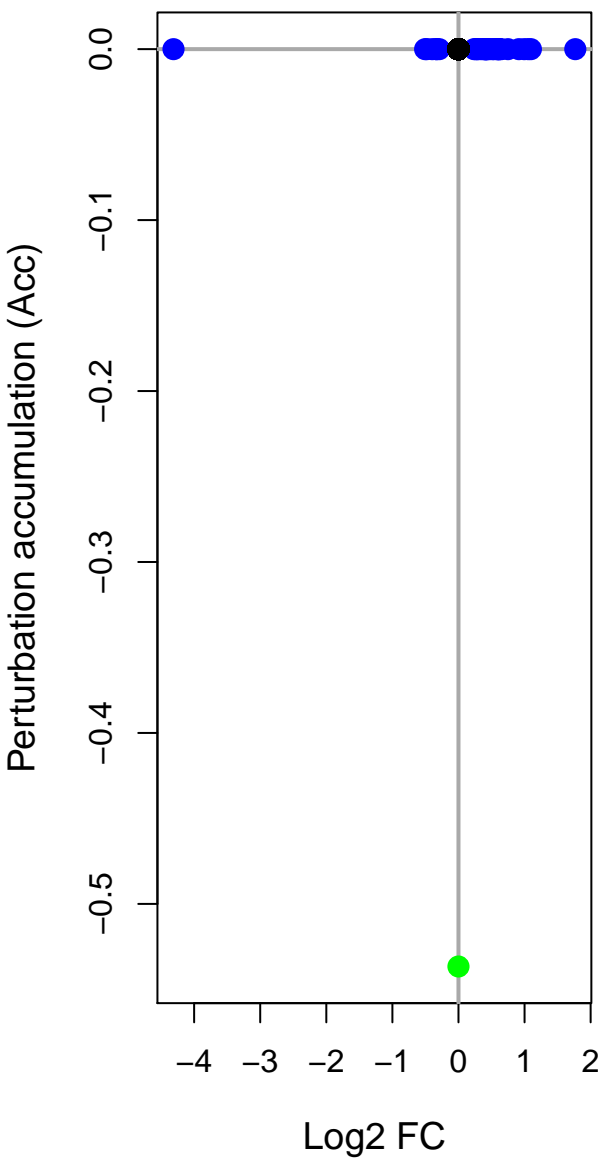
pathway ID=05202



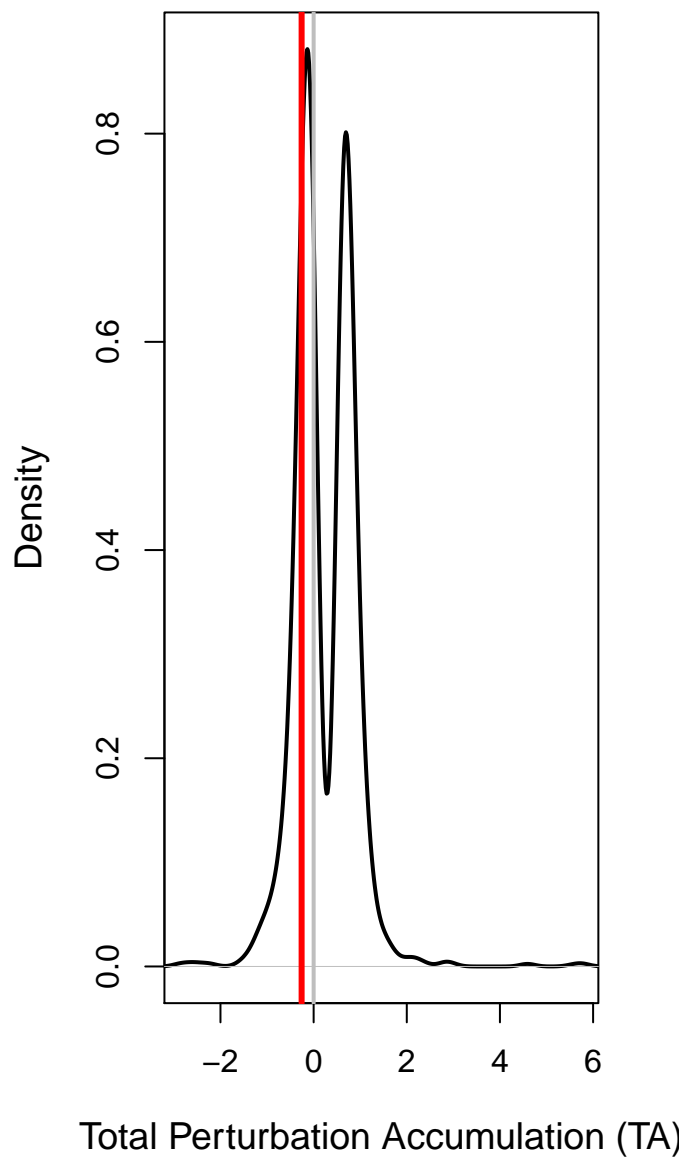
pathway ID=05202 P PERT=0.239



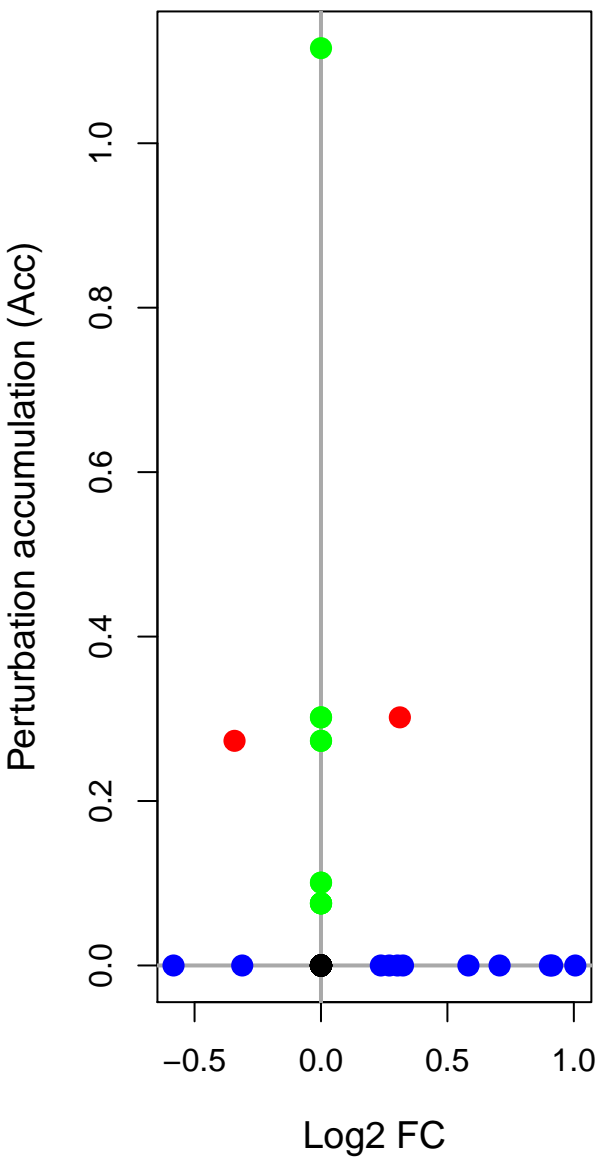
pathway ID=05203



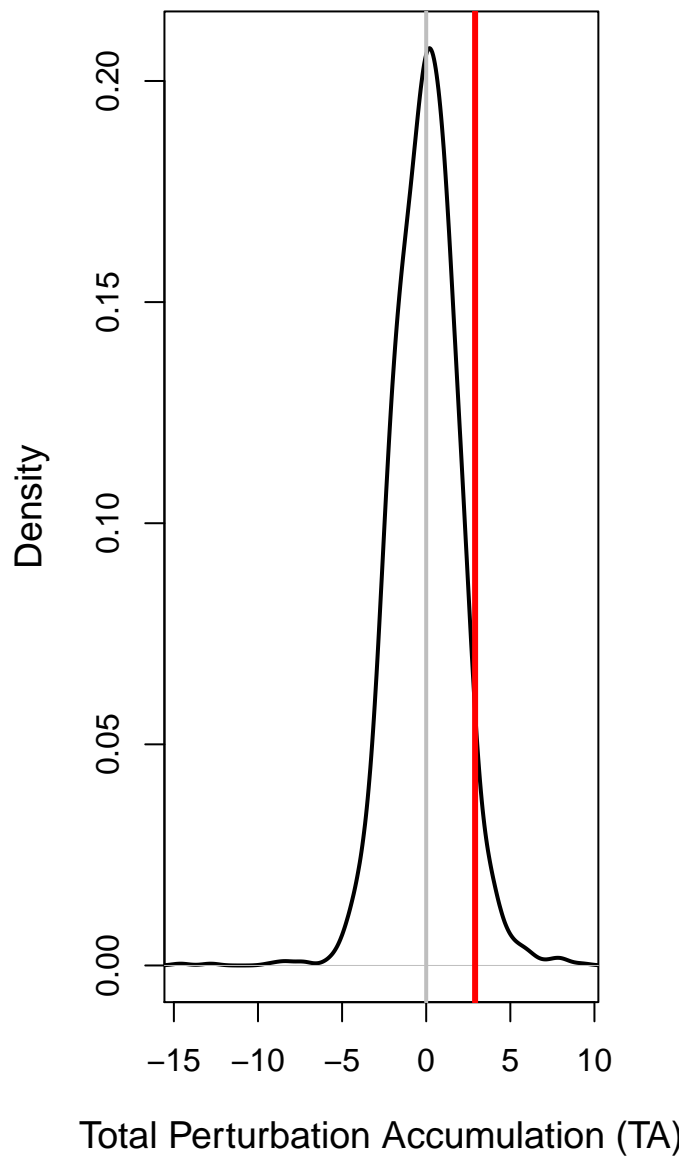
pathway ID=05203 P PERT=0.357



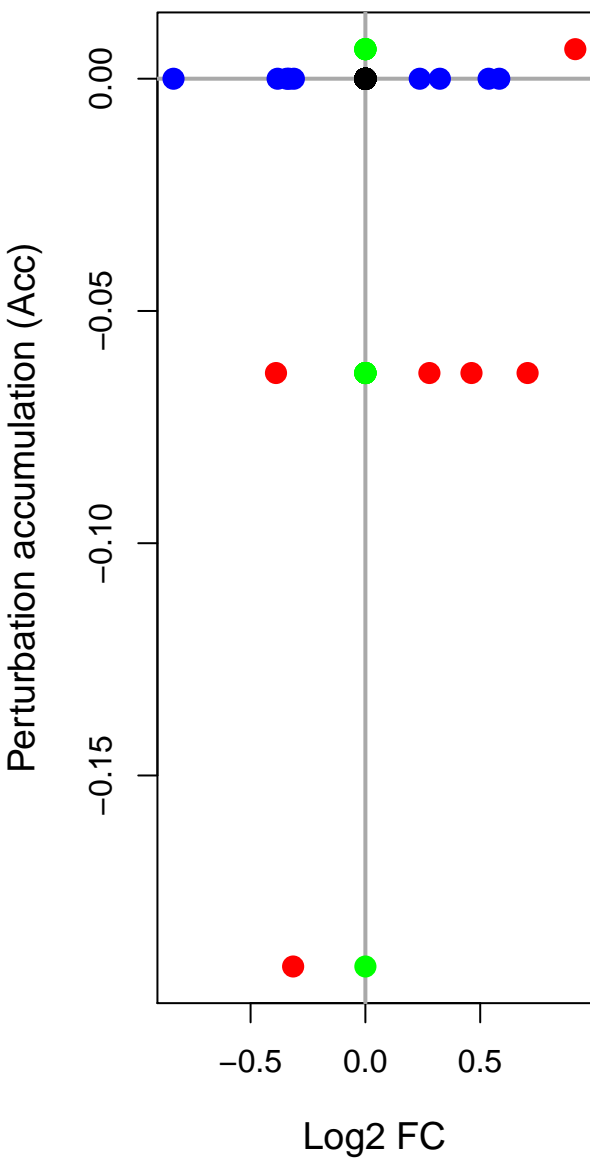
pathway ID=05210



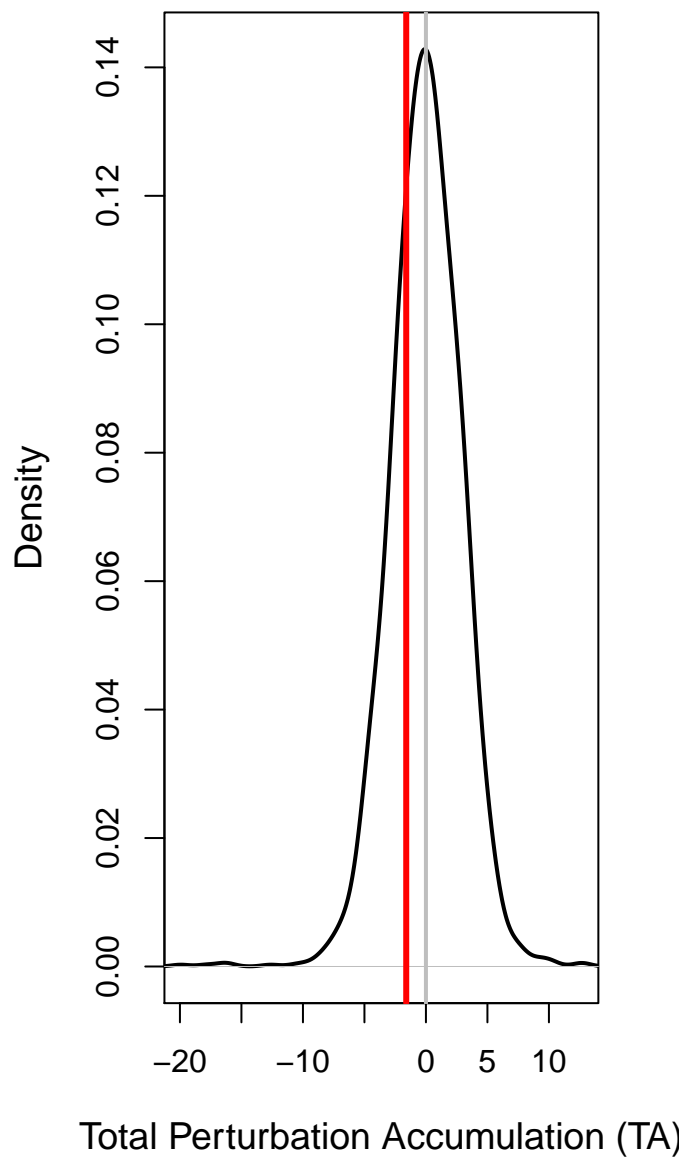
pathway ID=05210 P PERT=0.103



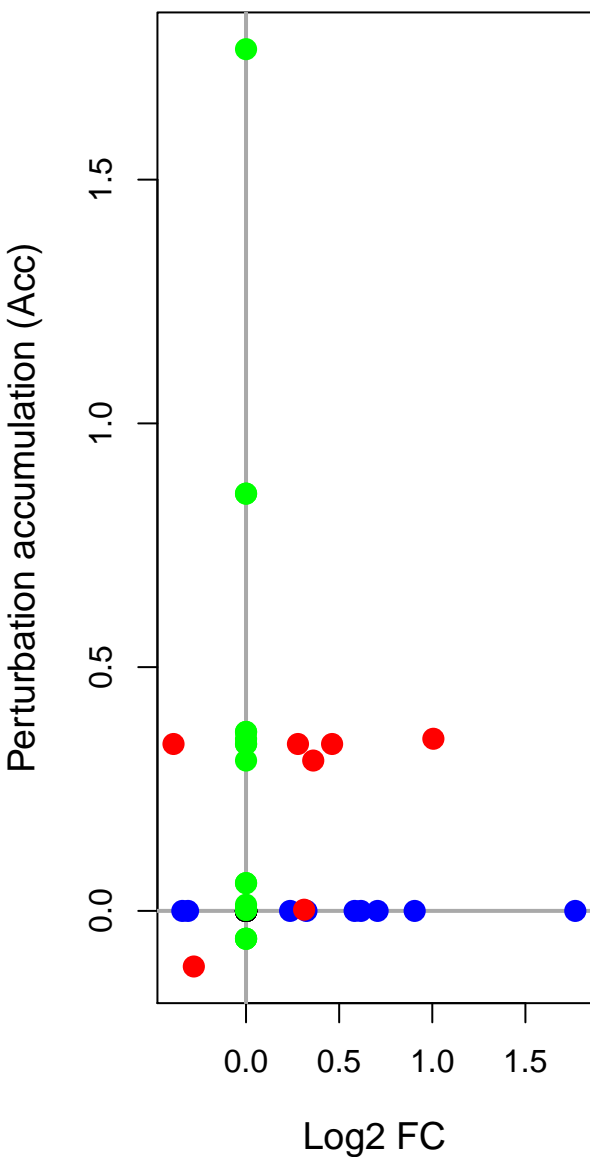
pathway ID=05211



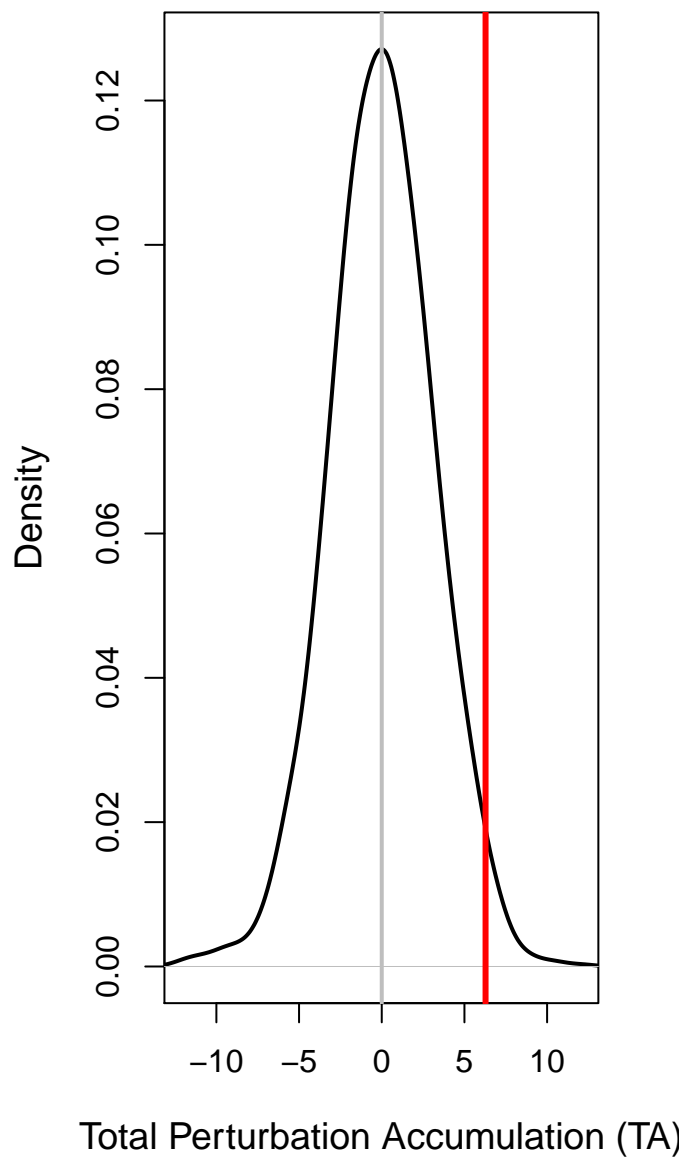
pathway ID=05211 P PERT=0.556



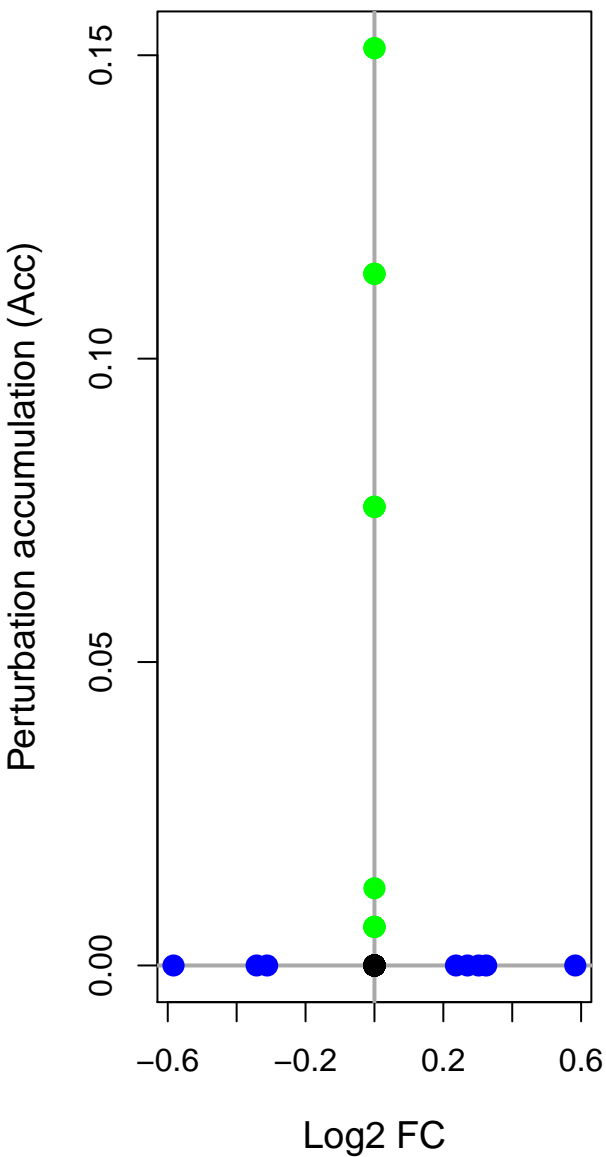
pathway ID=05212



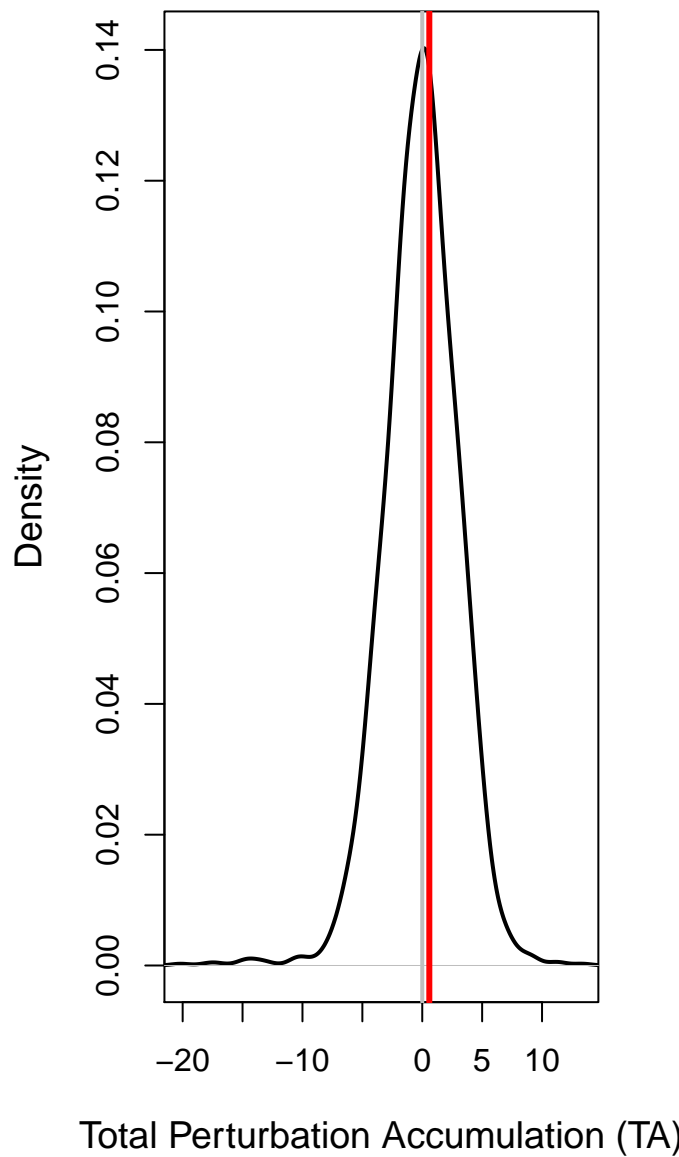
pathway ID=05212 P PERT=0.043



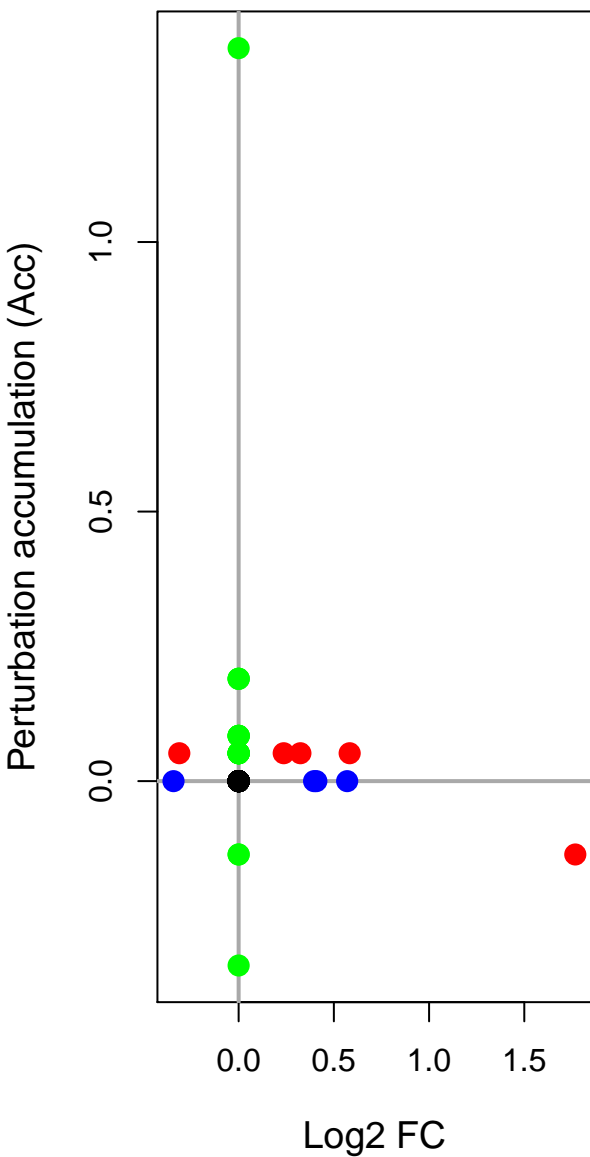
pathway ID=05213



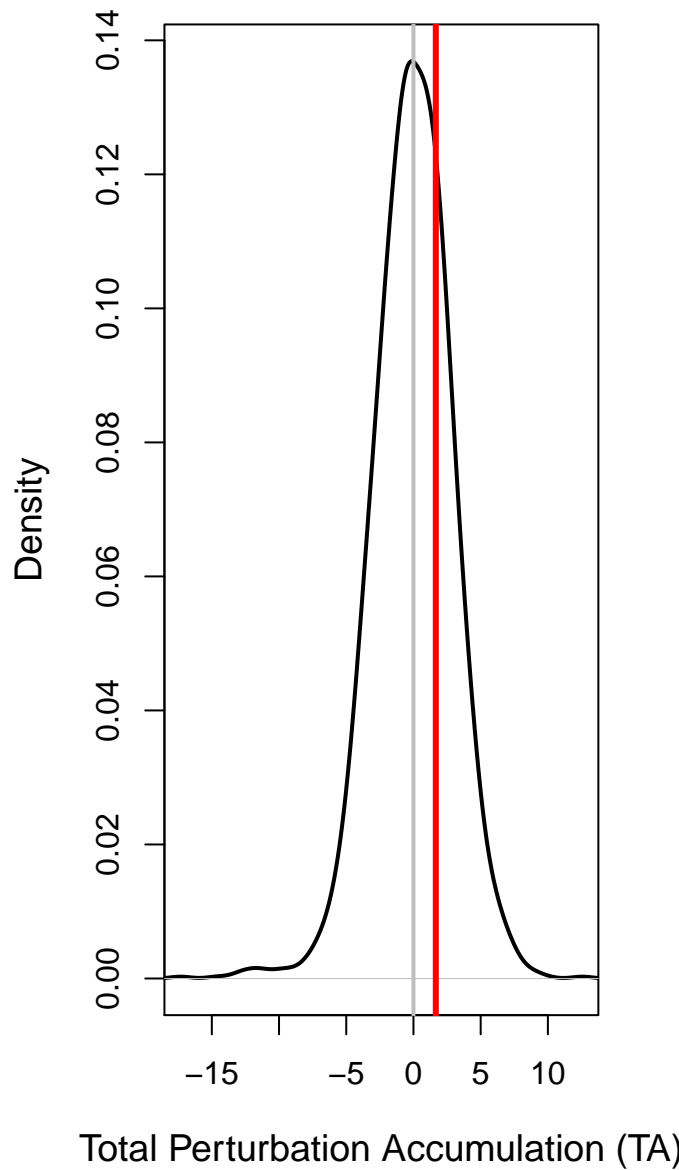
pathway ID=05213 P PERT=0.81



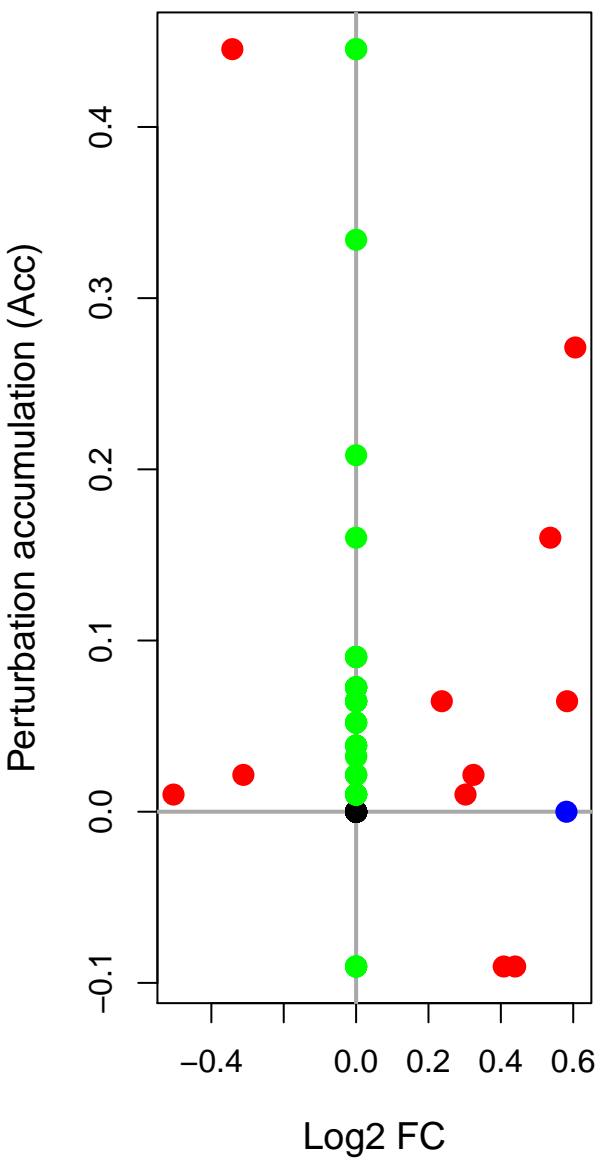
pathway ID=05214



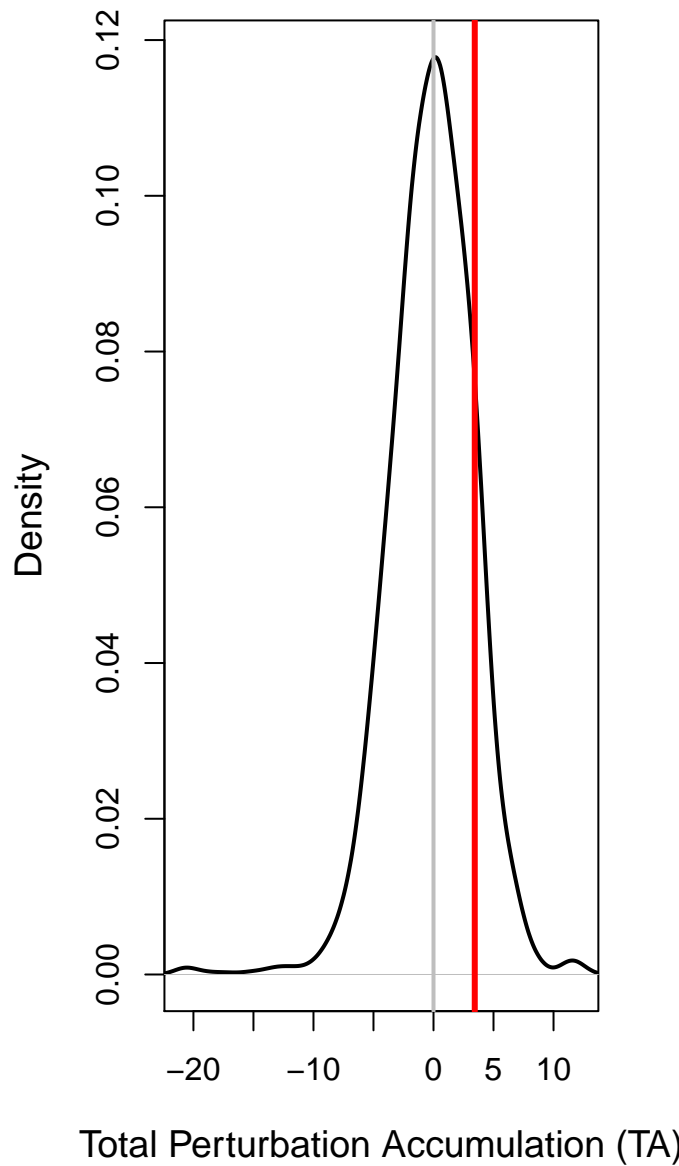
pathway ID=05214 P PERT=0.565



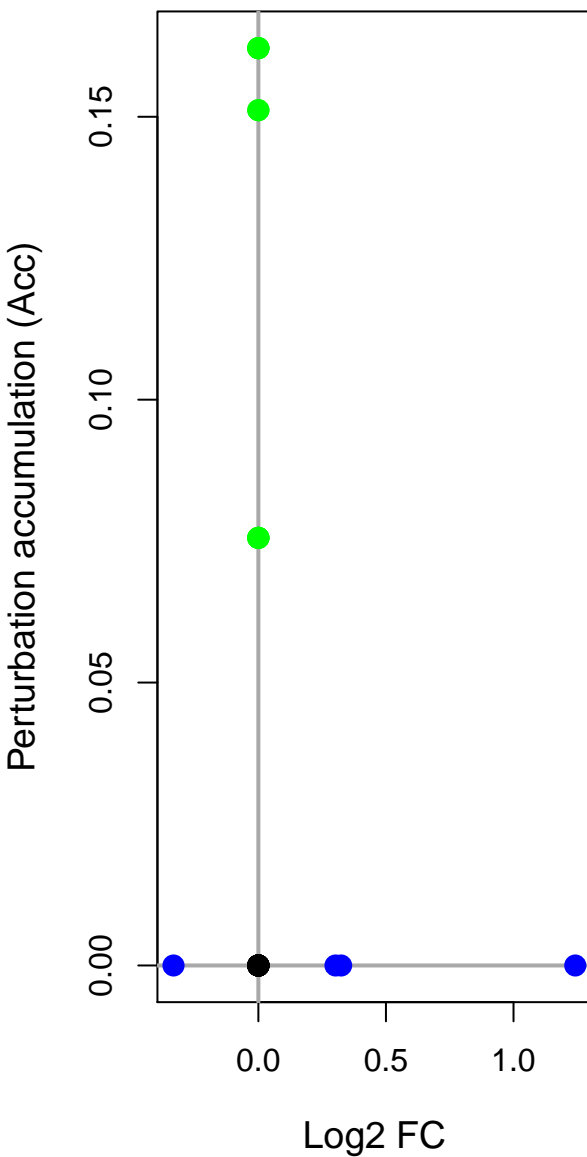
pathway ID=05215



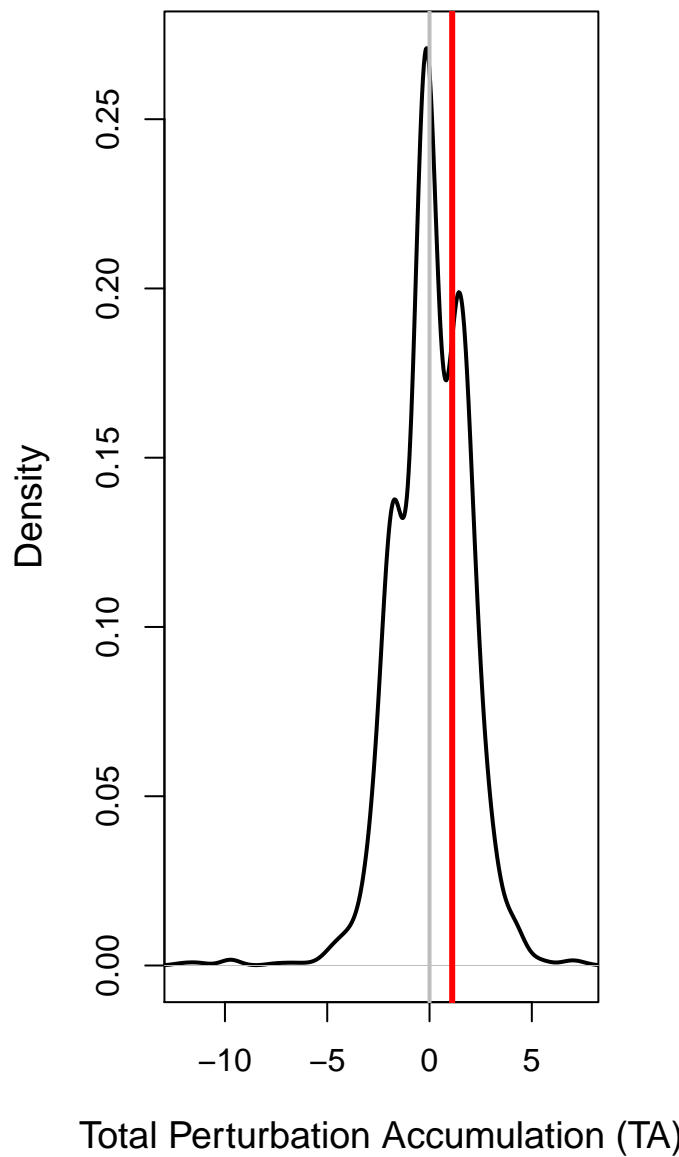
pathway ID=05215 P PERT=0.274



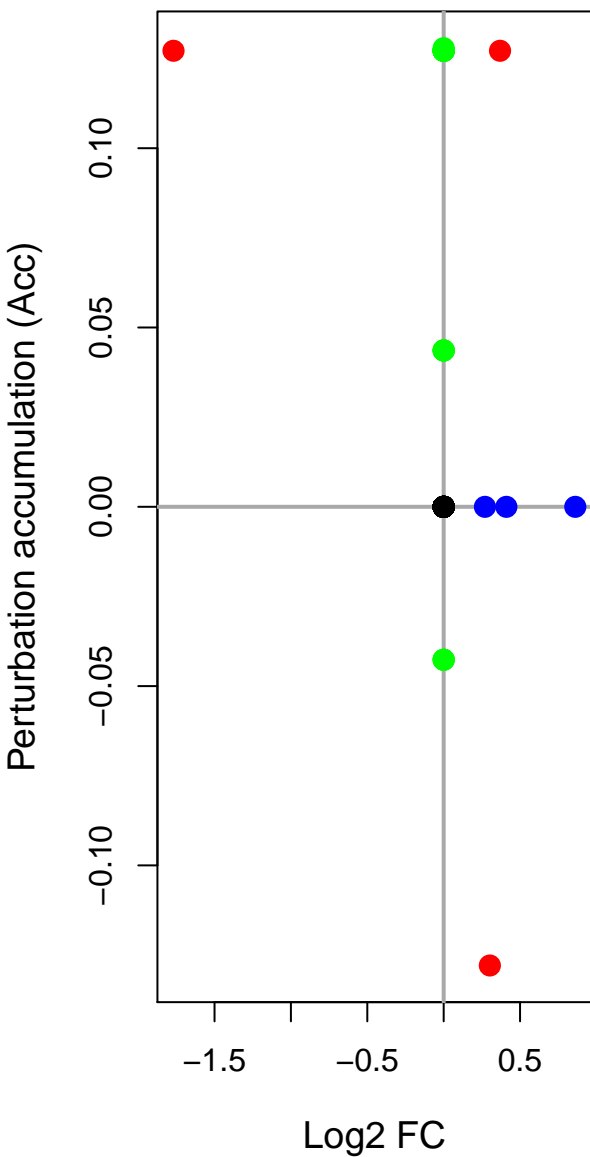
pathway ID=05216



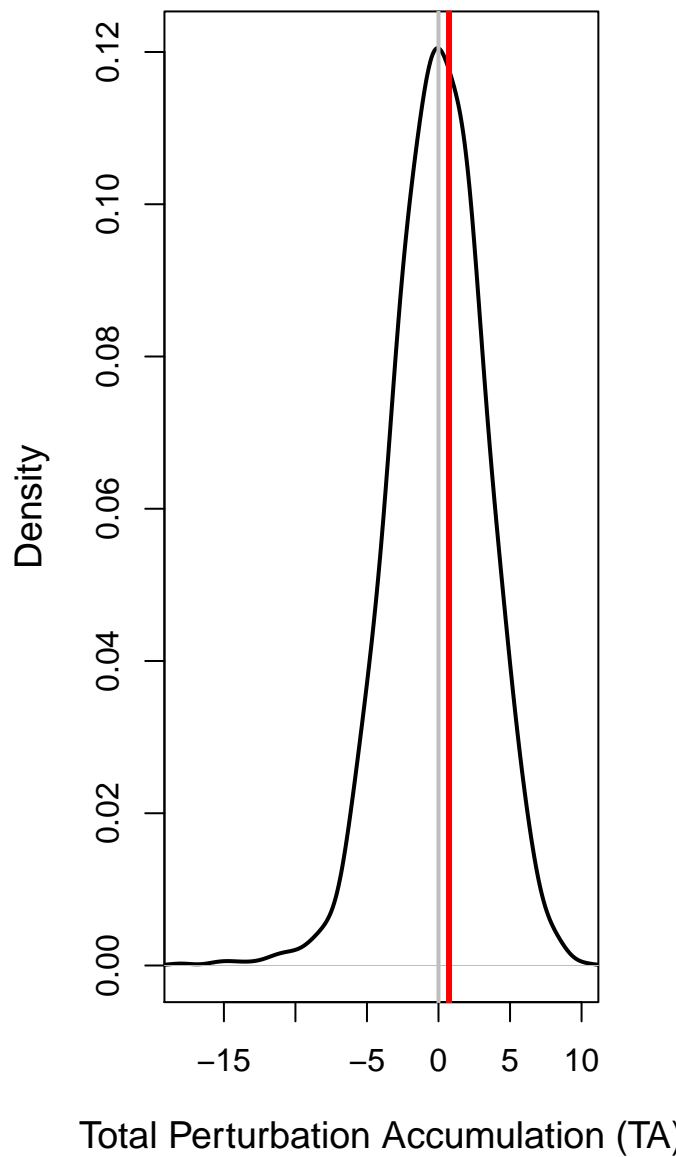
pathway ID=05216 P PERT=0.64



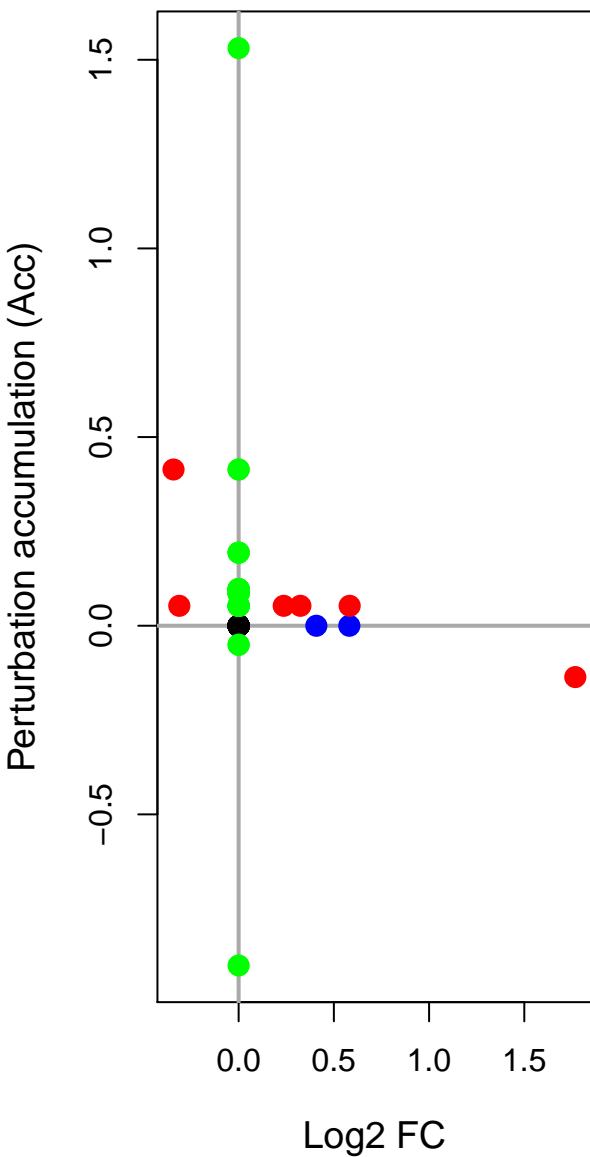
pathway ID=05217



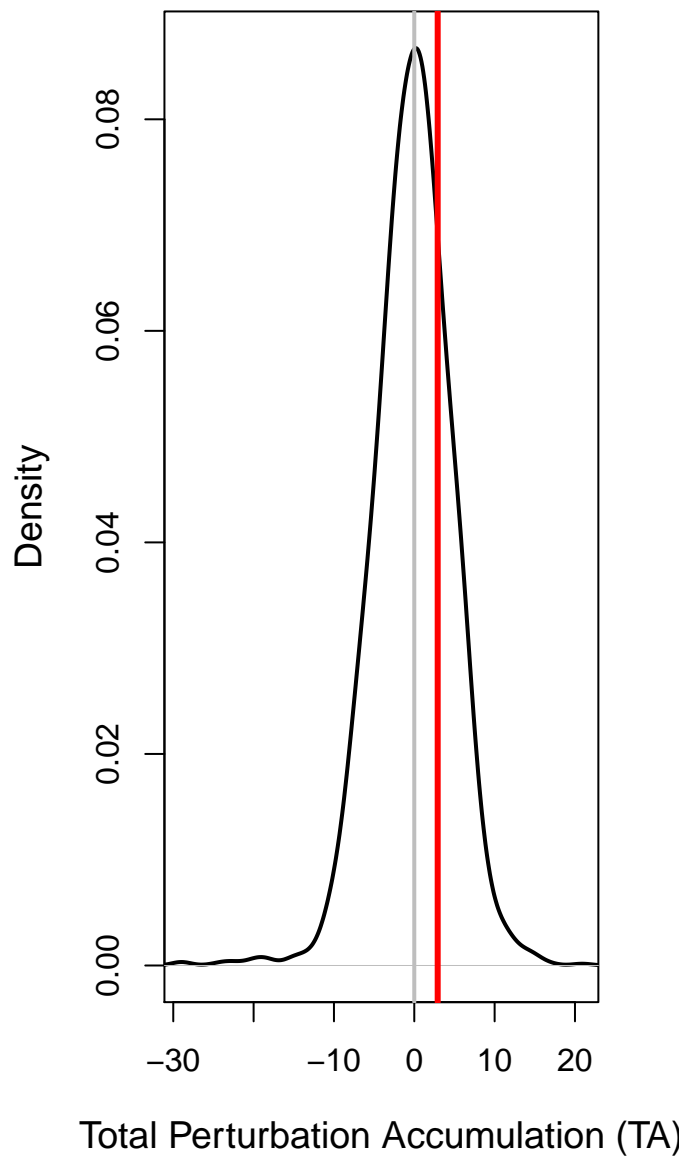
pathway ID=05217 P PERT=0.833



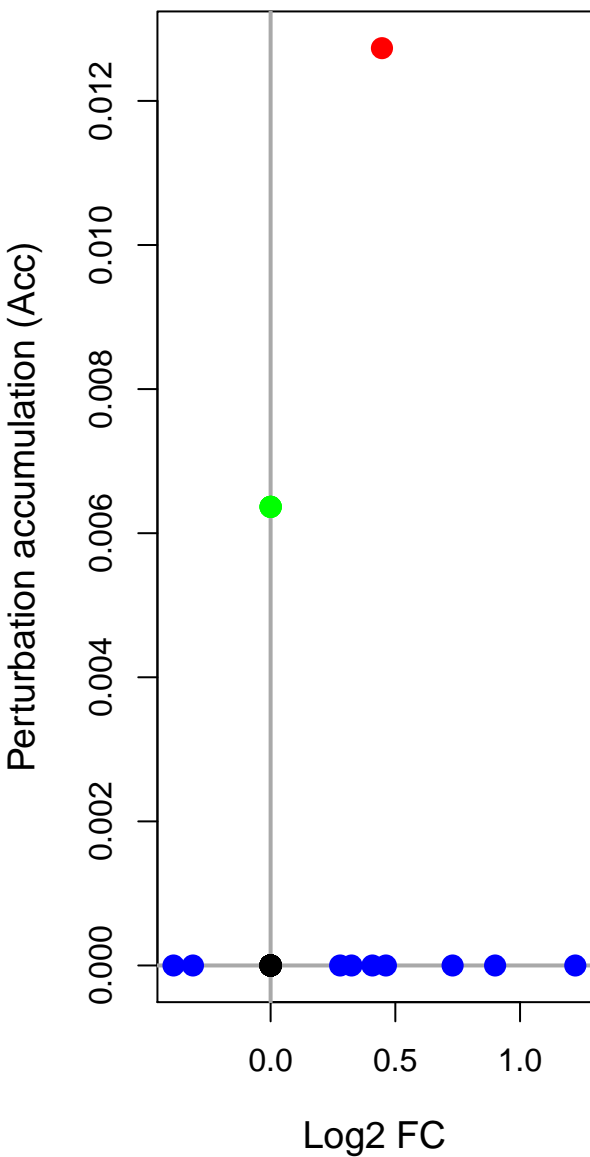
pathway ID=05218



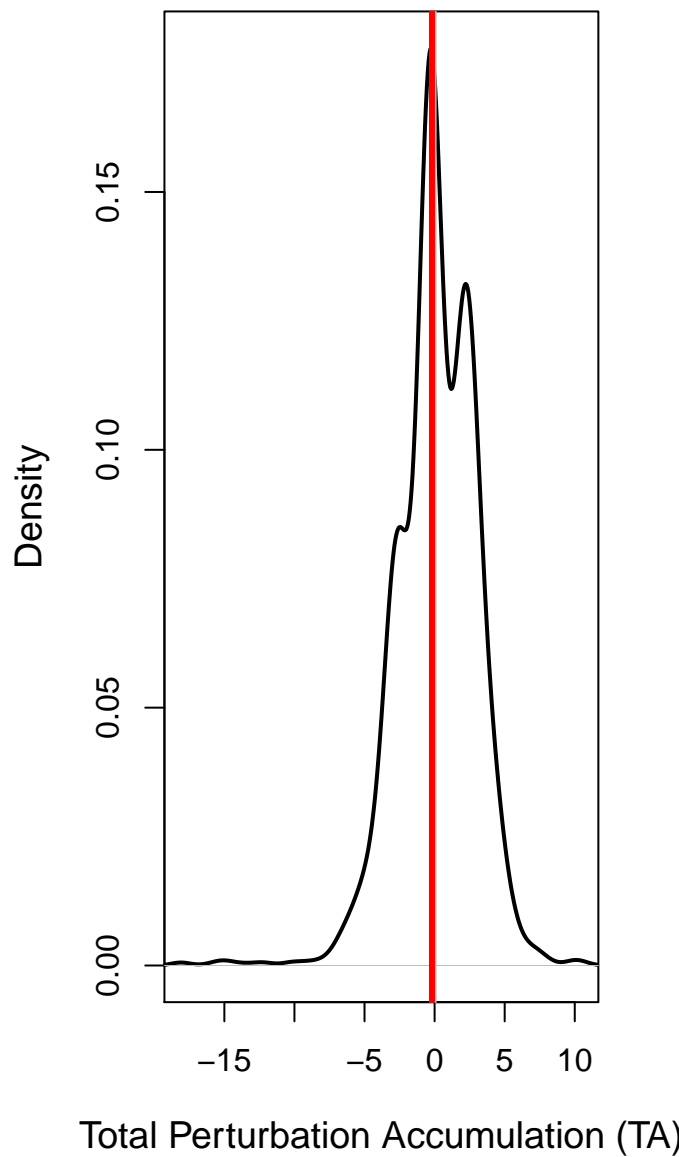
pathway ID=05218 P PERT=0.501



pathway ID=05219



pathway ID=05219 P PERT=0.9



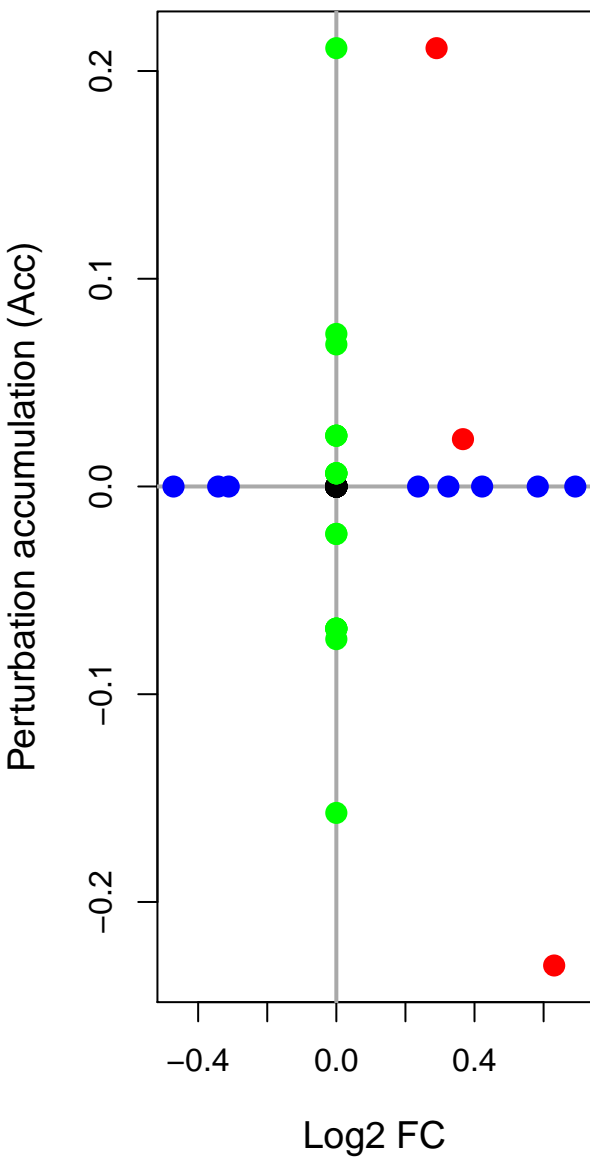
Scatter plot of the first two principal components (PC1 vs PC2) for the 1000 Genomes dataset. The plot shows three distinct clusters of points: African (red), European (blue), and East Asian (green). The x-axis (PC1) ranges from -0.5 to 1.5, and the y-axis (PC2) ranges from -0.5 to 0.5. A vertical gray line is drawn at PC1 = 0 and a horizontal gray line at PC2 = 0.

Perturbation accumulation (Acc)

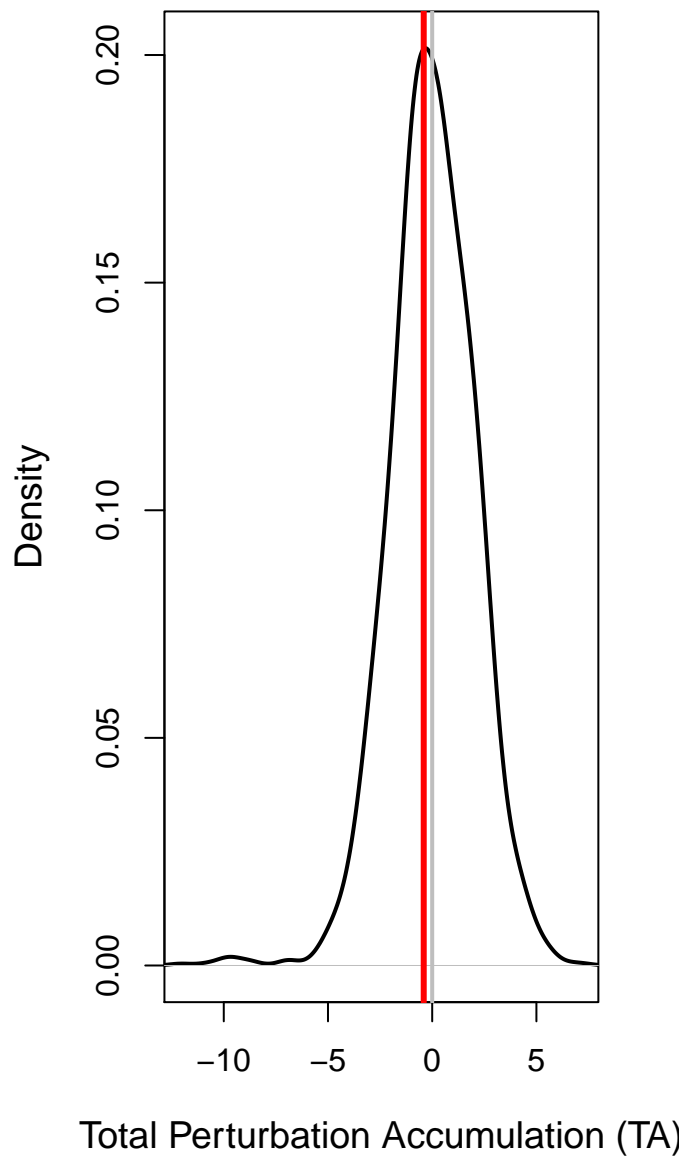
A plot of a normal distribution curve. The x-axis ranges from -15 to 10, and the y-axis ranges from 0.00 to 0.12. A vertical gray line marks the mean at 0, and a vertical red line marks the standard deviation at 1.

Density

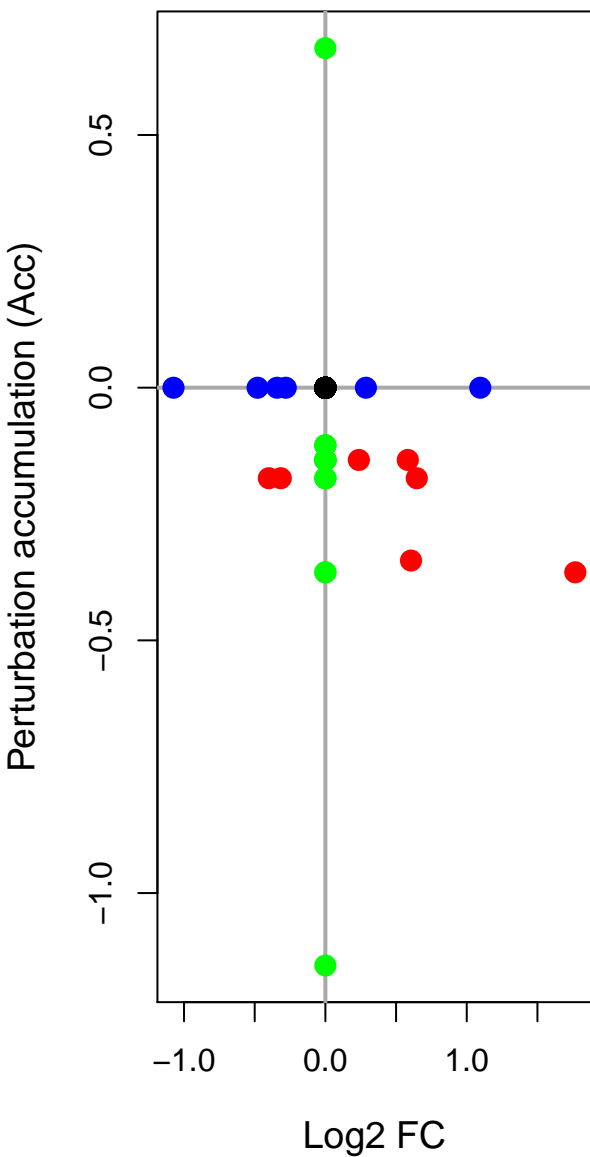
pathway ID=05221



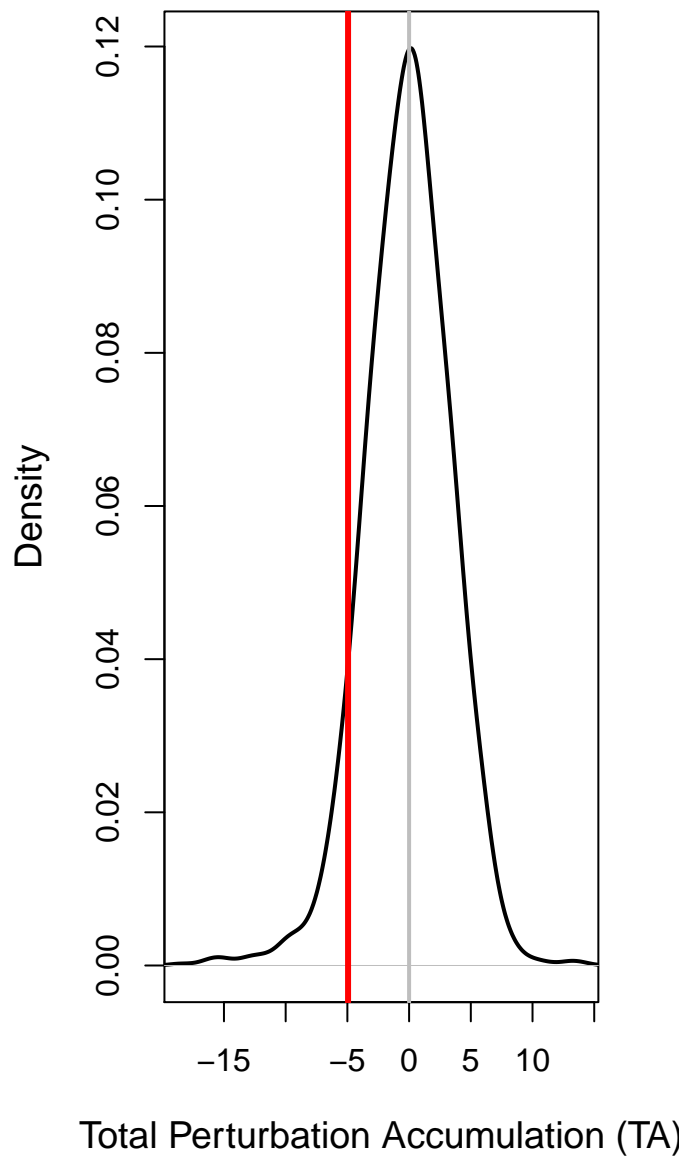
pathway ID=05221 P PERT=0.845



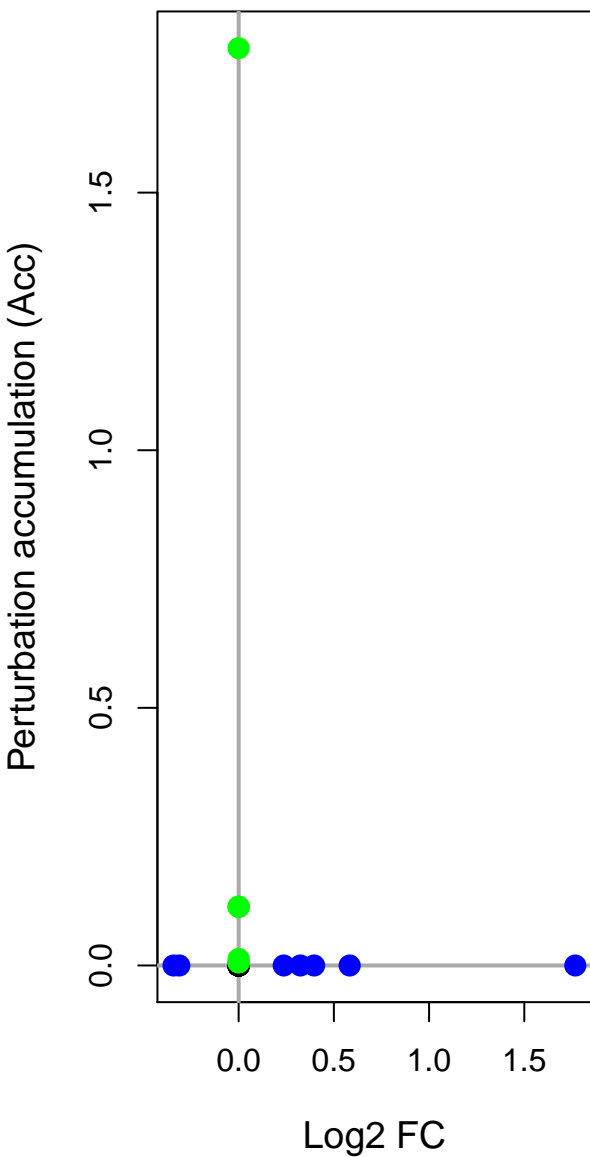
pathway ID=05222



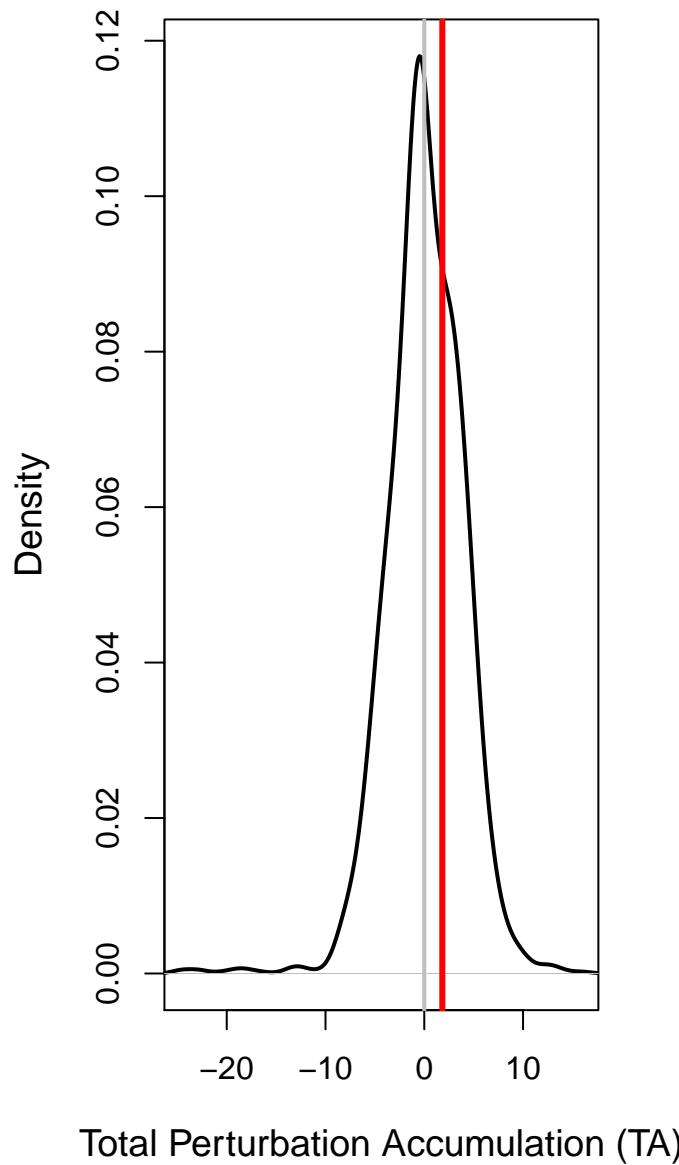
pathway ID=05222 P PERT=0.148



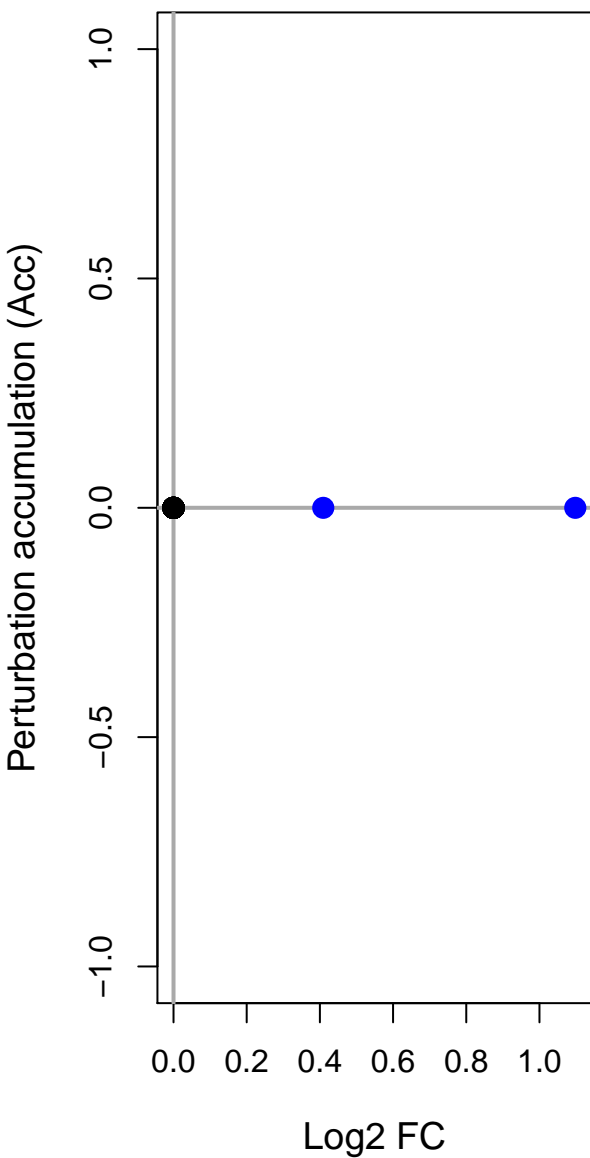
pathway ID=05223



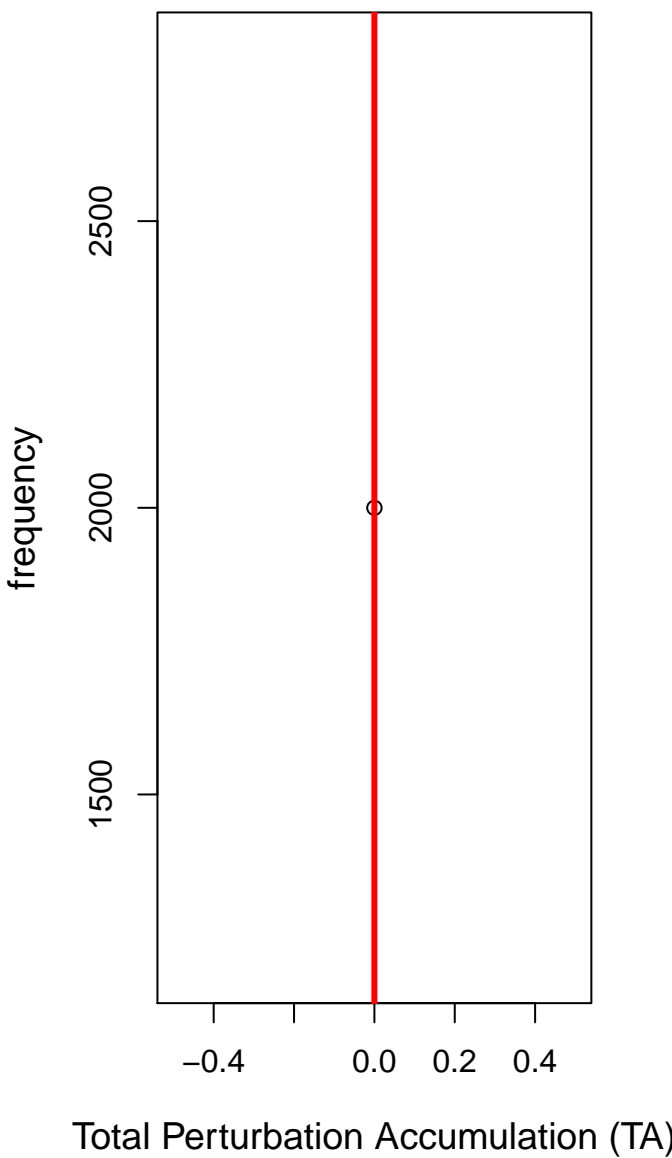
pathway ID=05223 P PERT=0.661



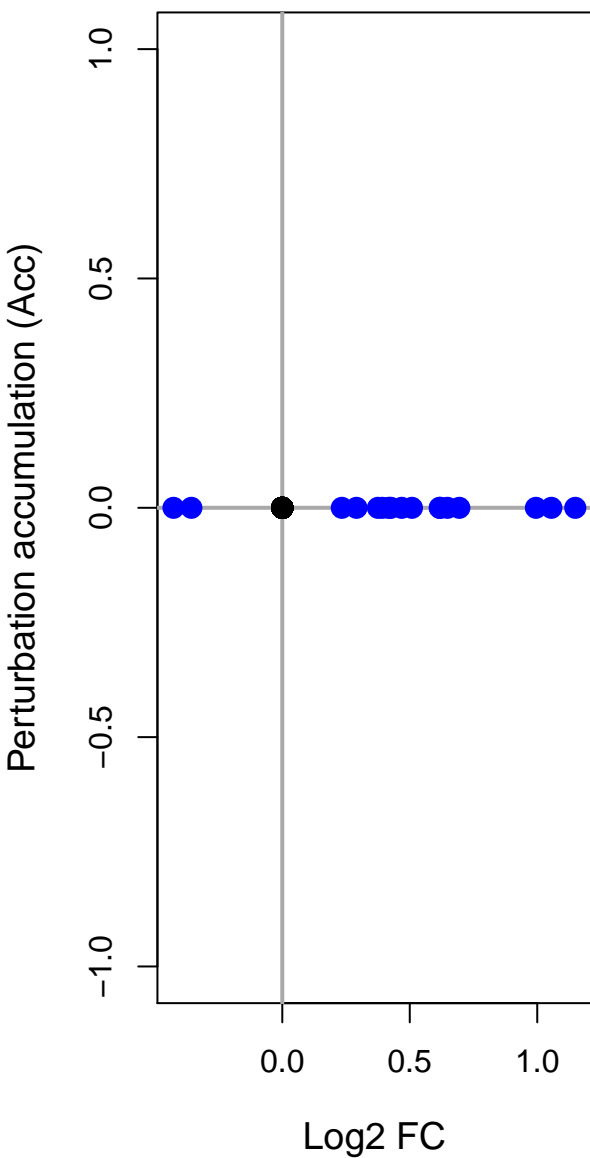
pathway ID=05320



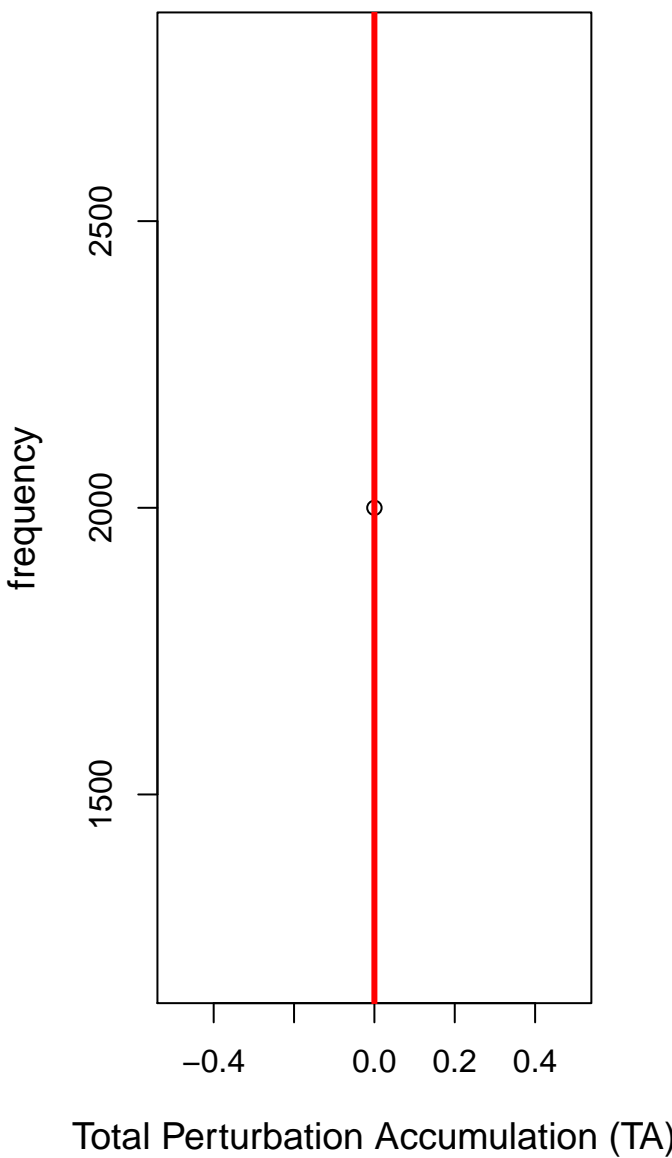
pathway ID=05320 P PERT=NA



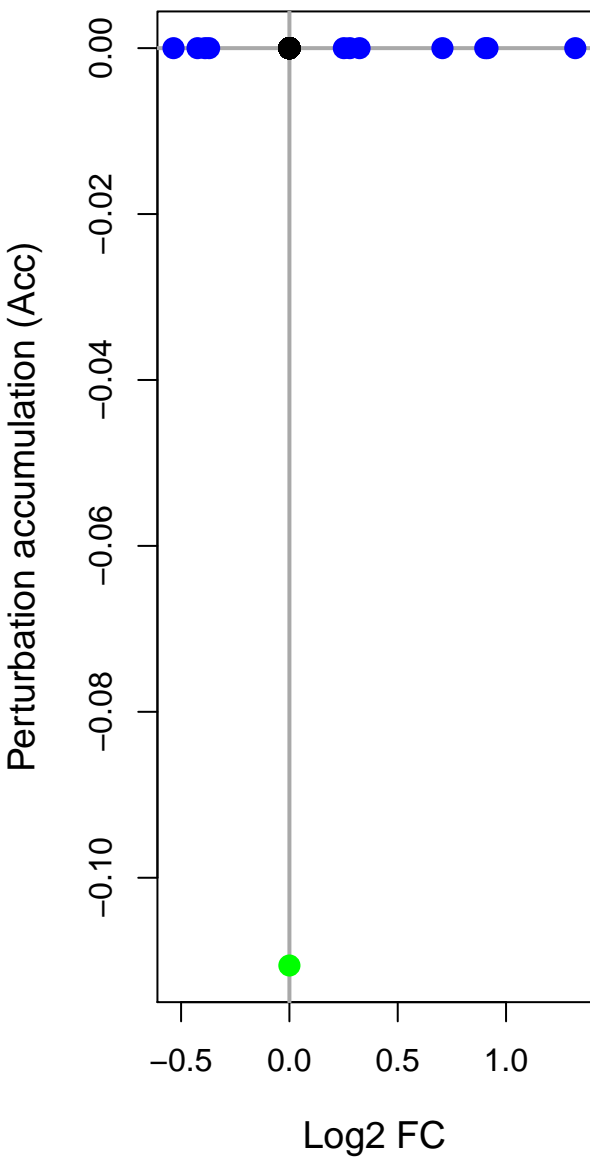
pathway ID=05322



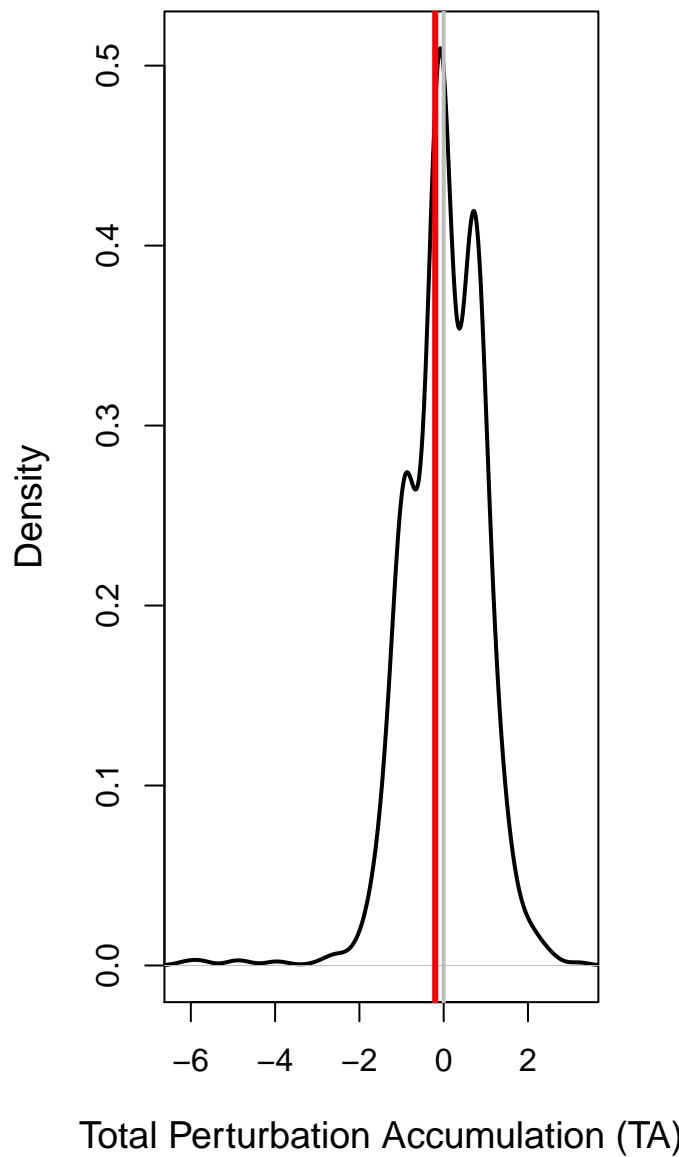
pathway ID=05322 P PERT=NA



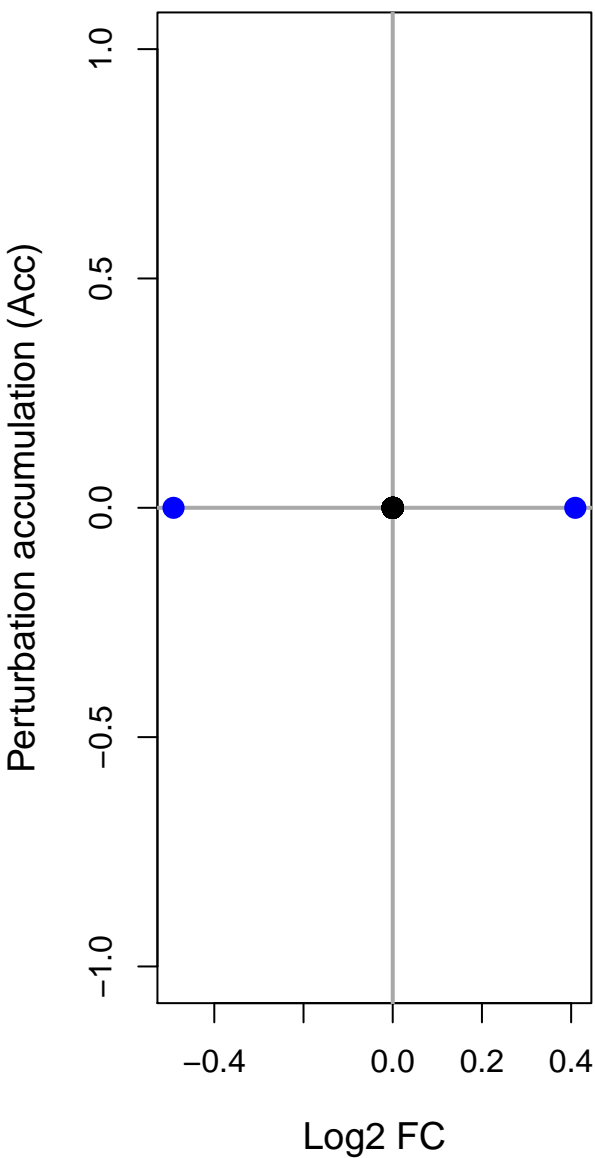
pathway ID=05323



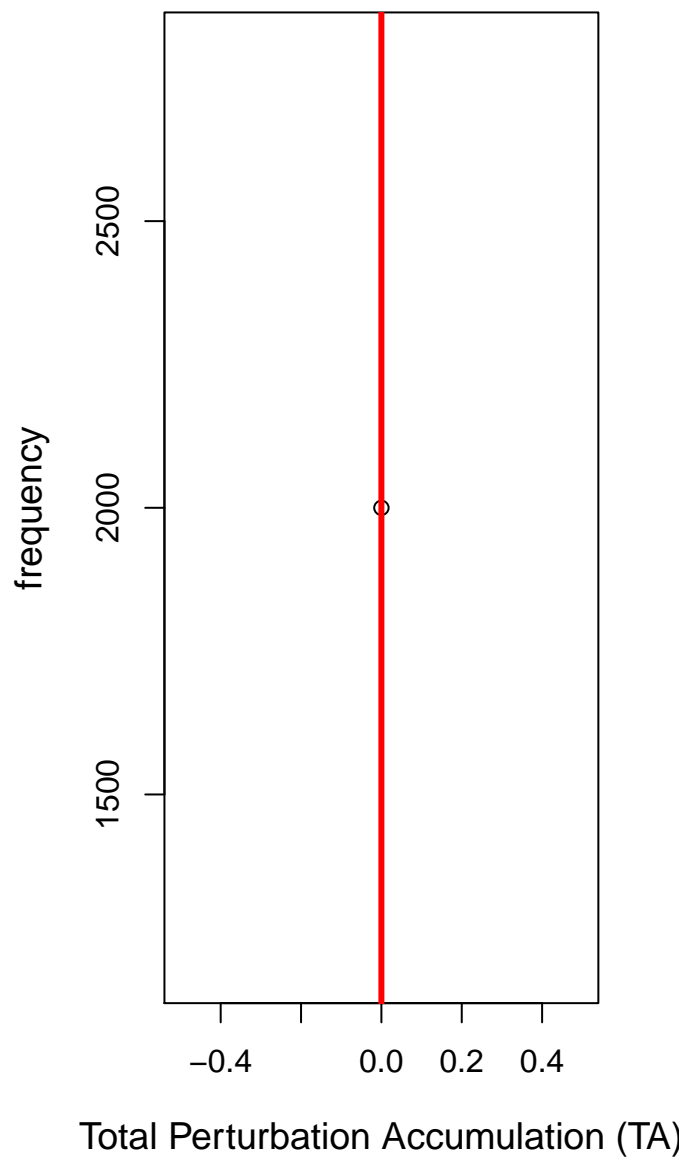
pathway ID=05323 P PERT=0.699



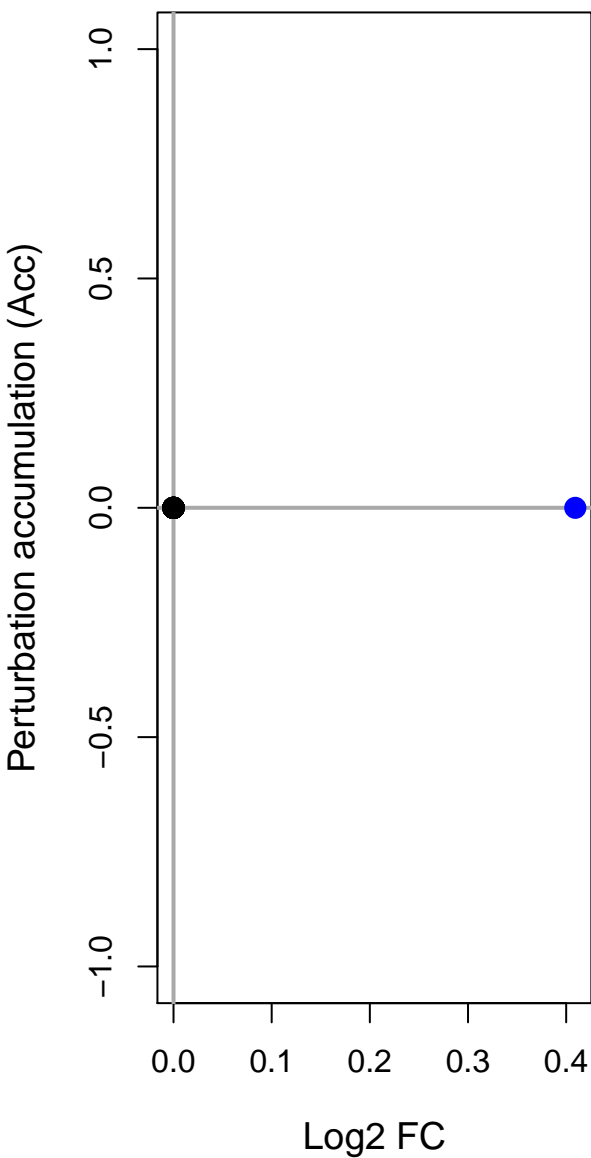
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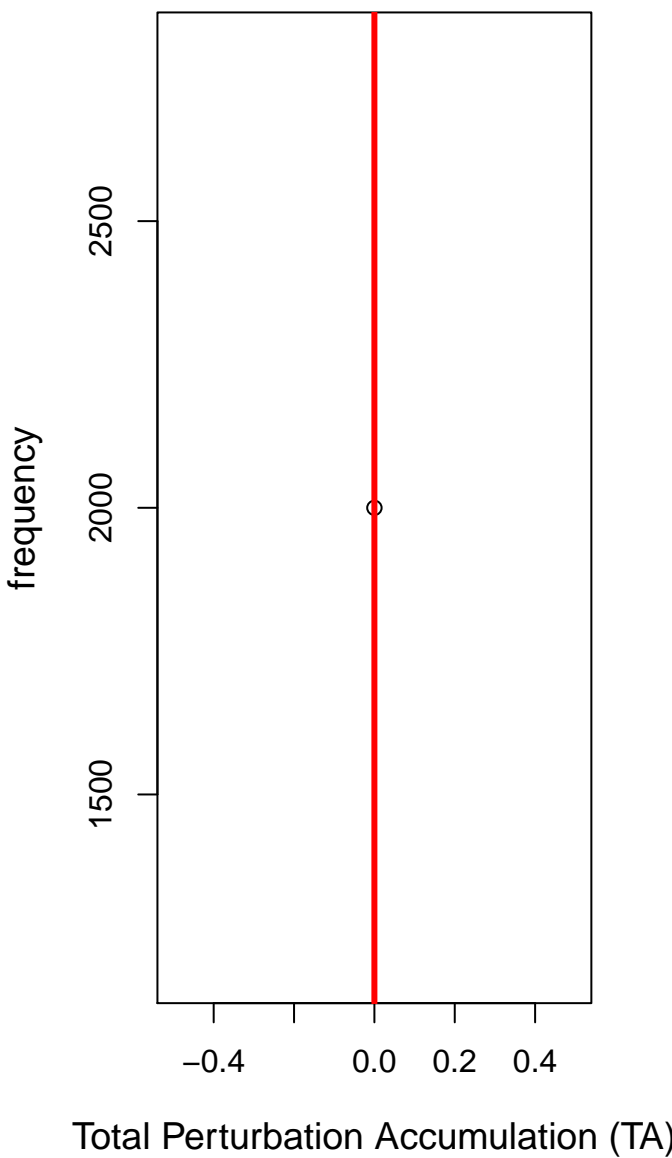
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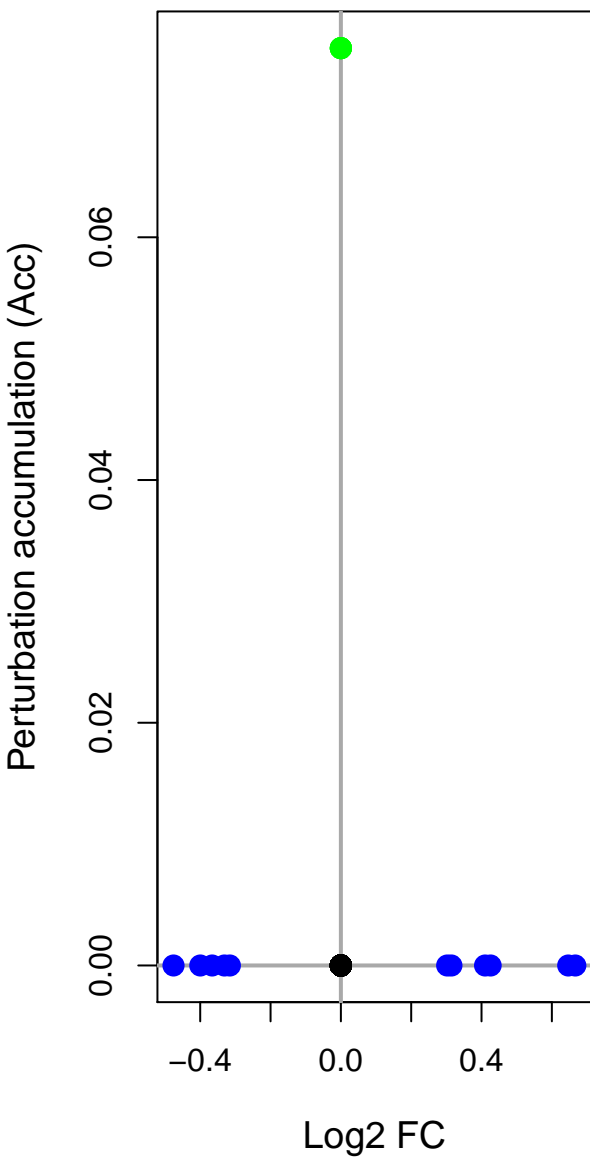
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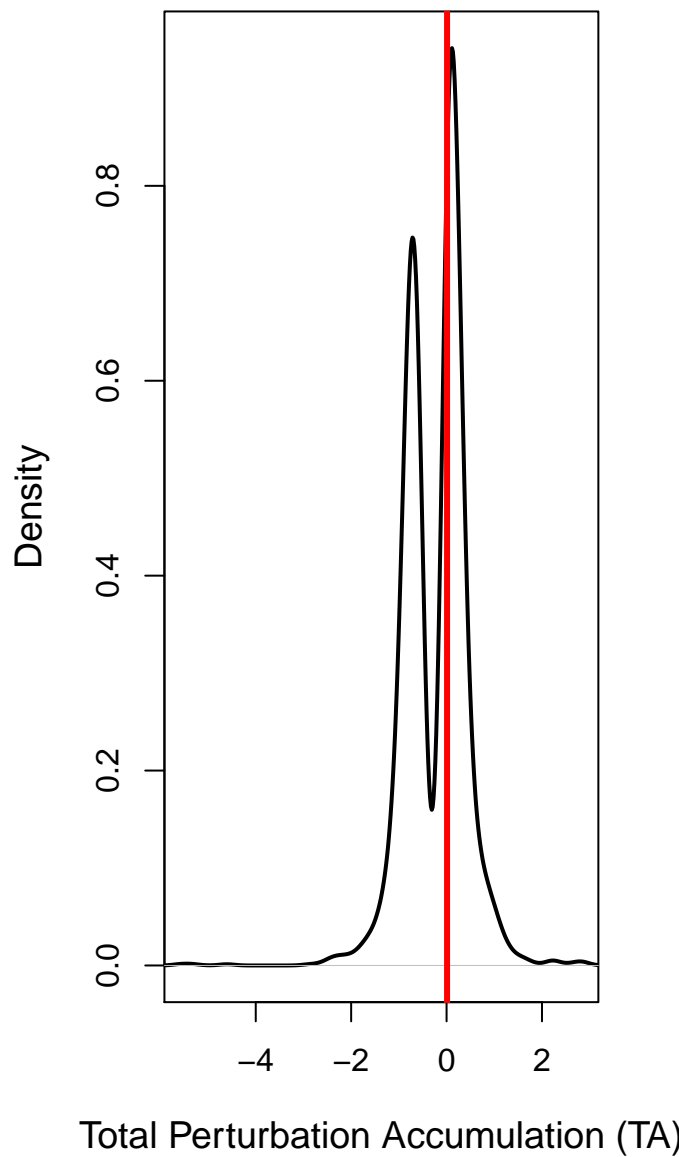
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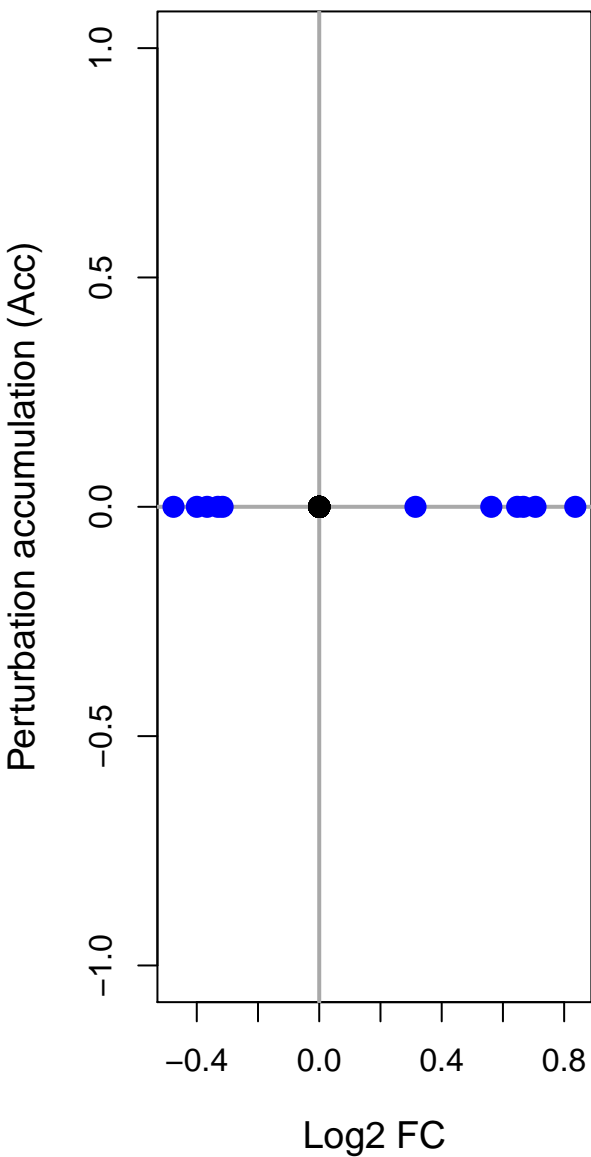
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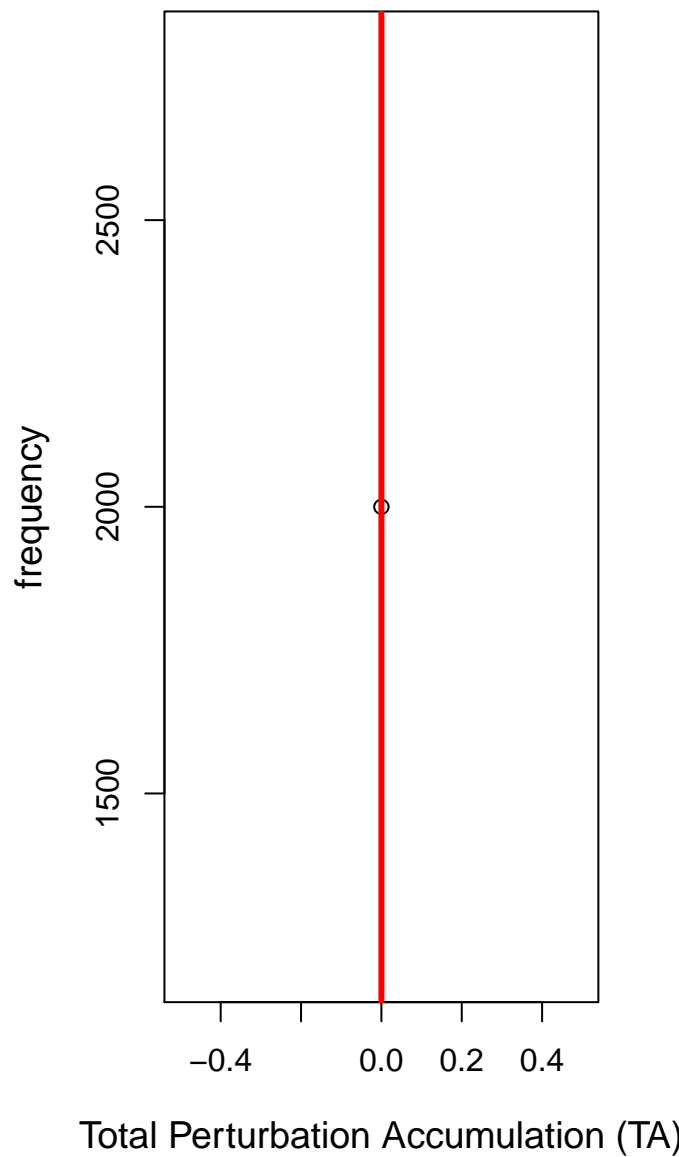
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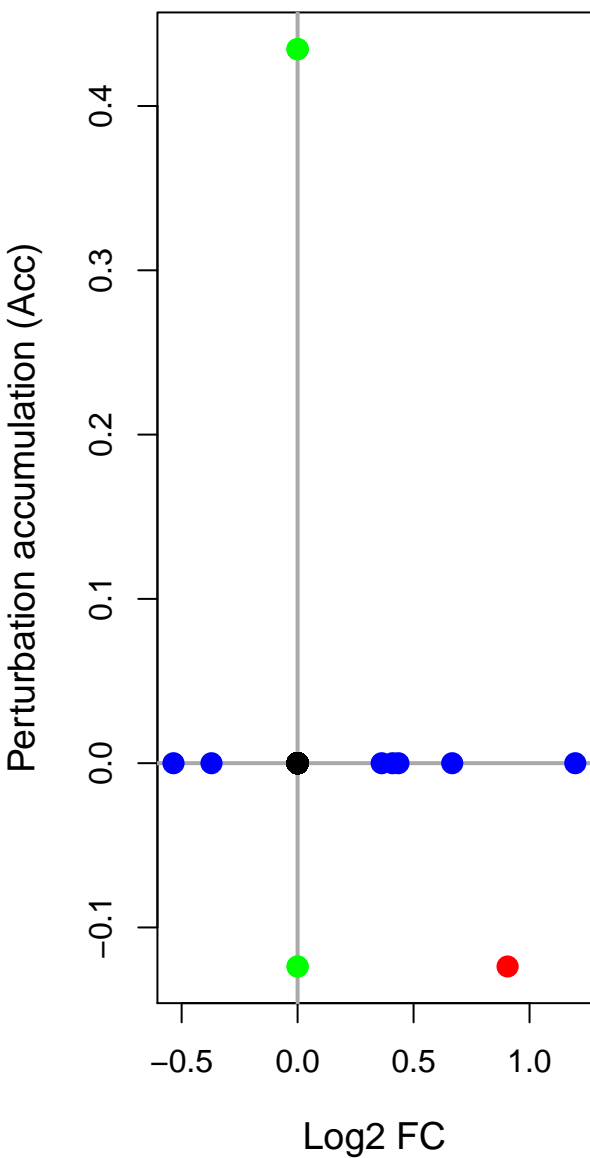
pathway ID=05414



pathway ID=05414 P PERT=NA



pathway ID=05416



pathway ID=05416 P PERT=0.829

