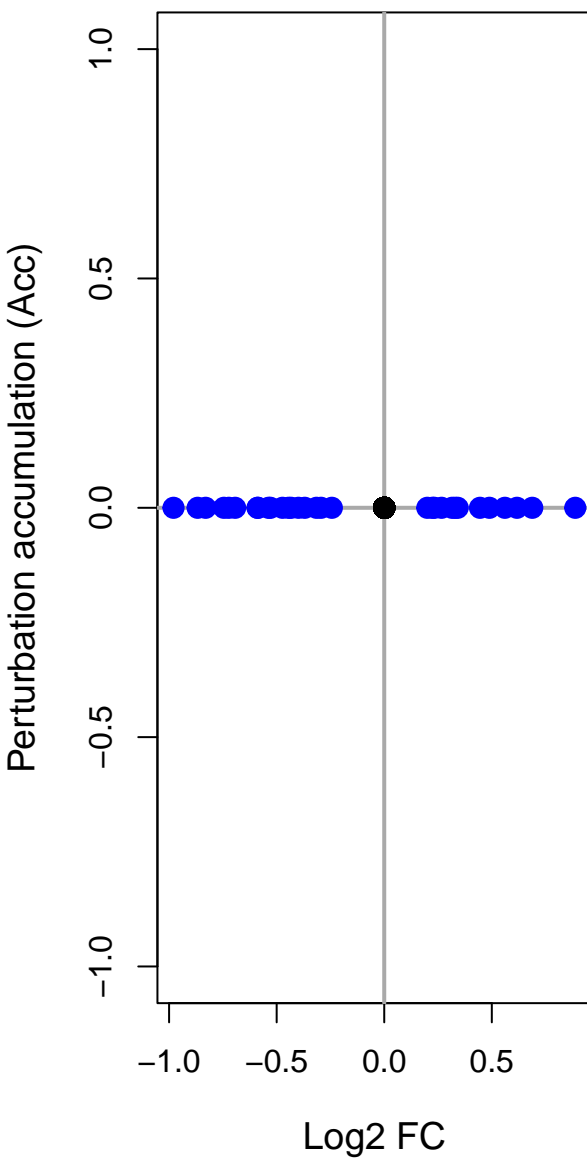
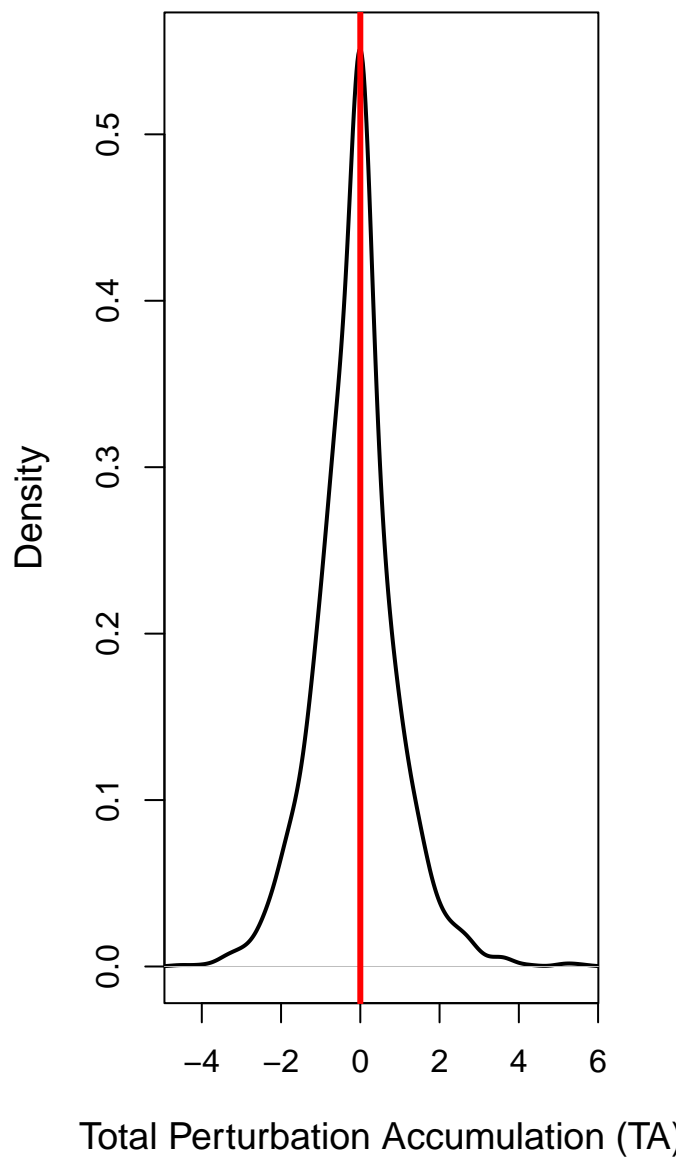


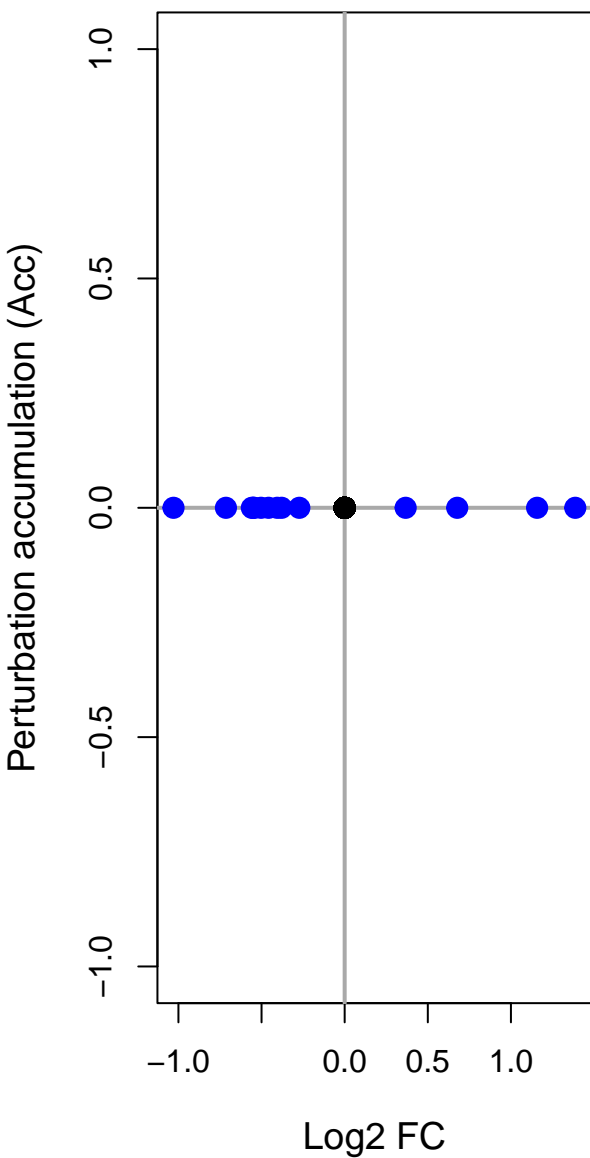
pathway ID=03013



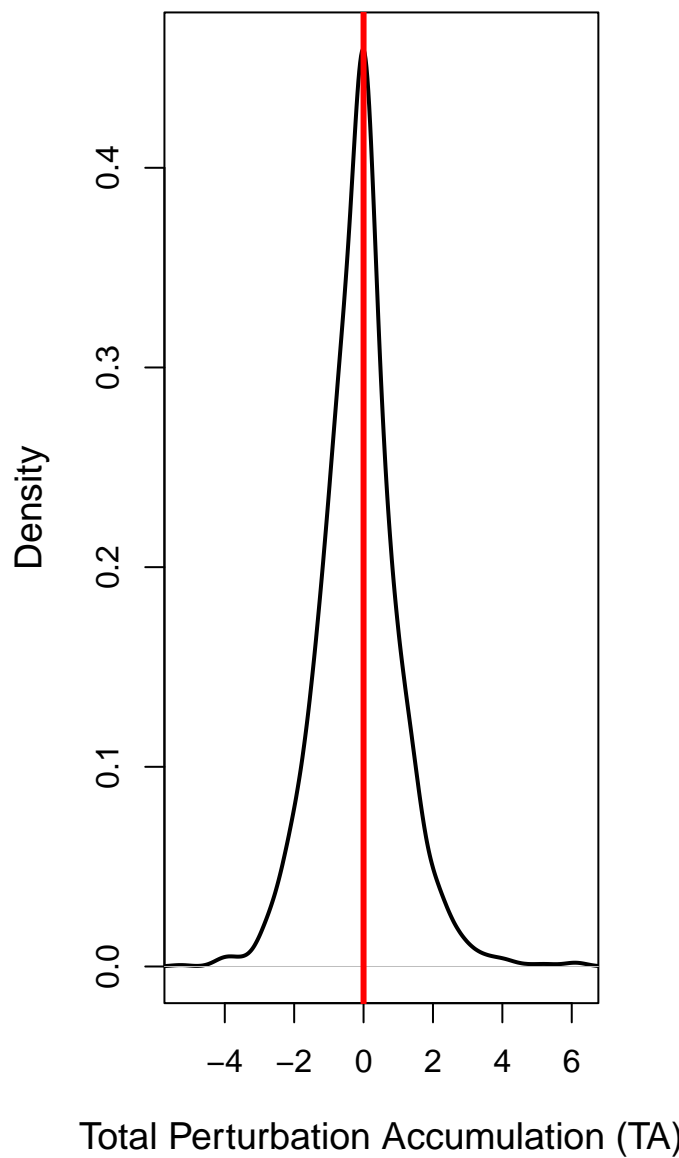
pathway ID=03013 P PERT=1



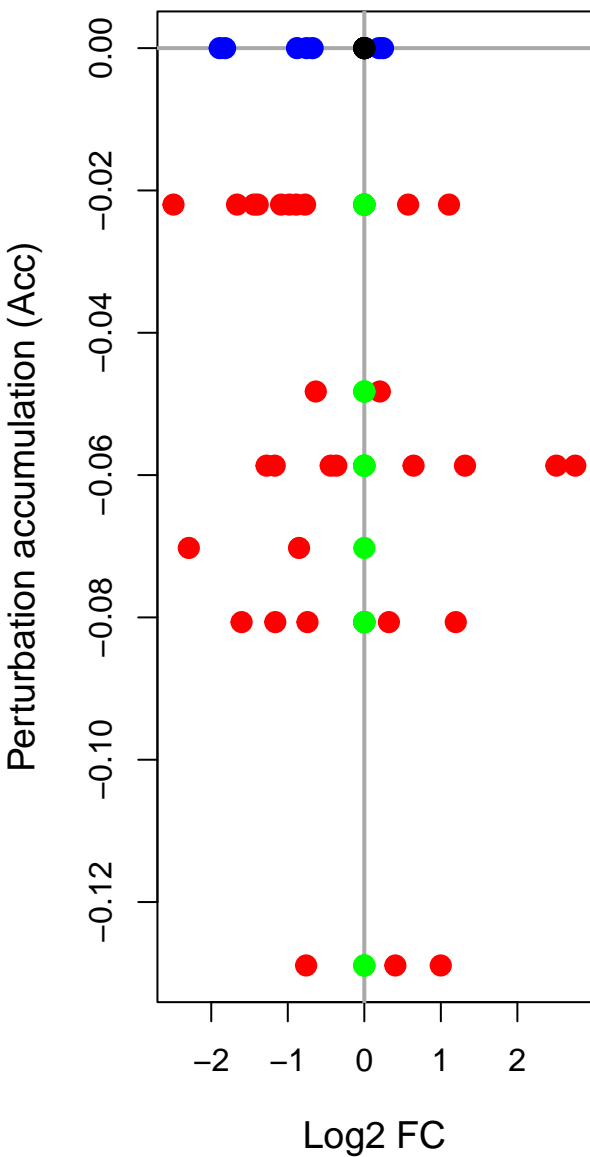
pathway ID=03018



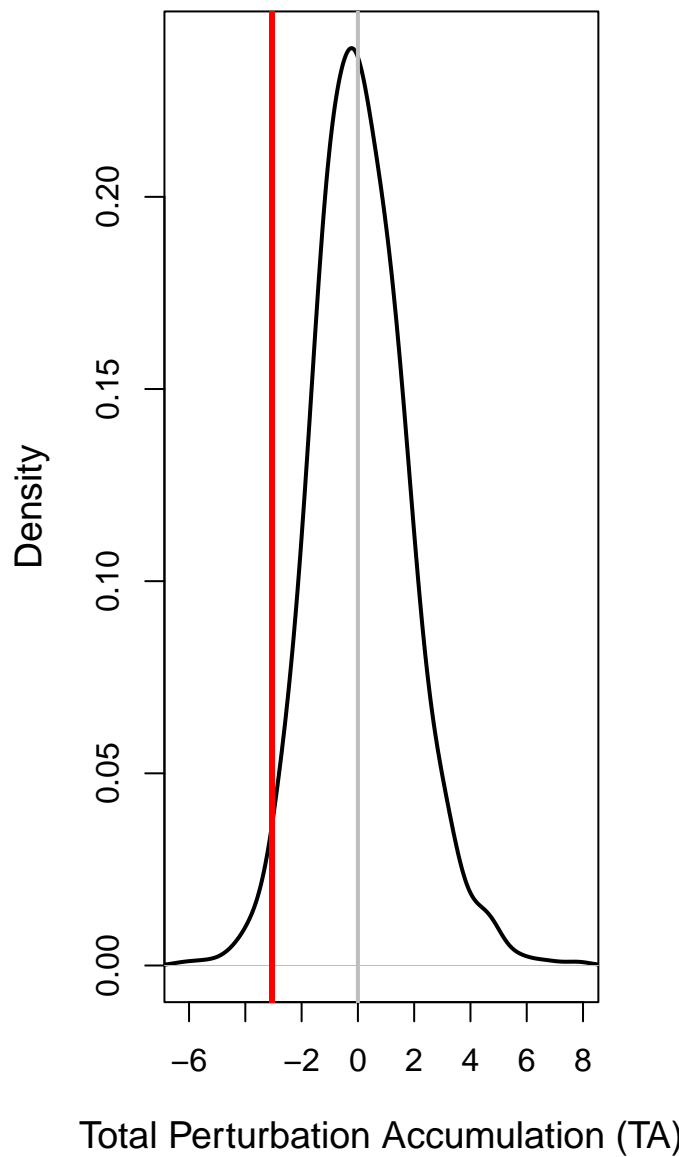
pathway ID=03018 P PERT=1



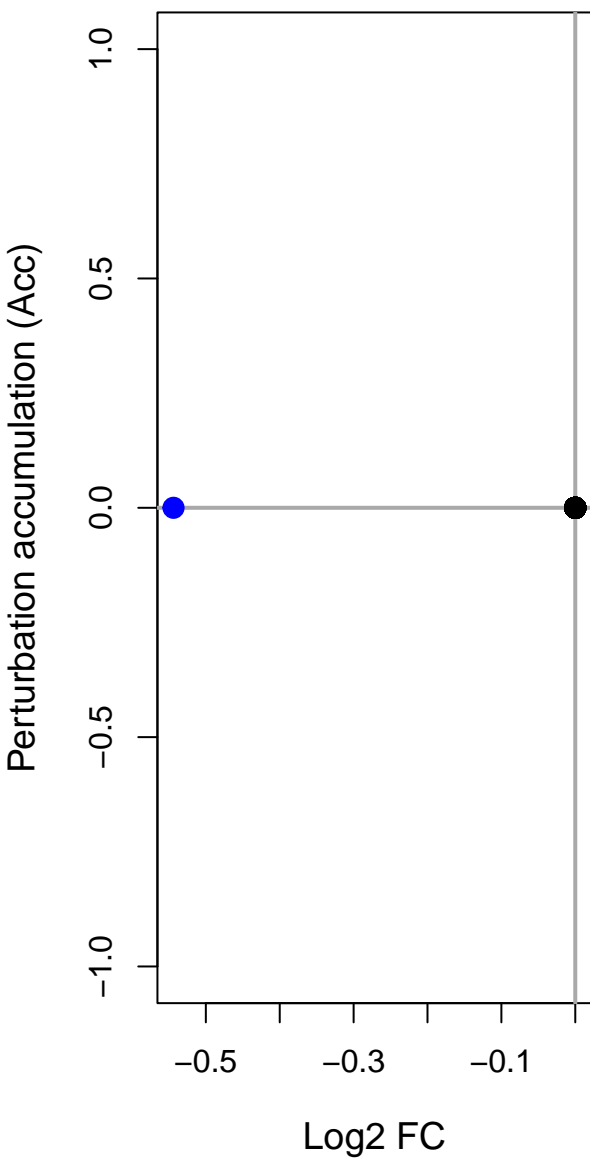
pathway ID=03320



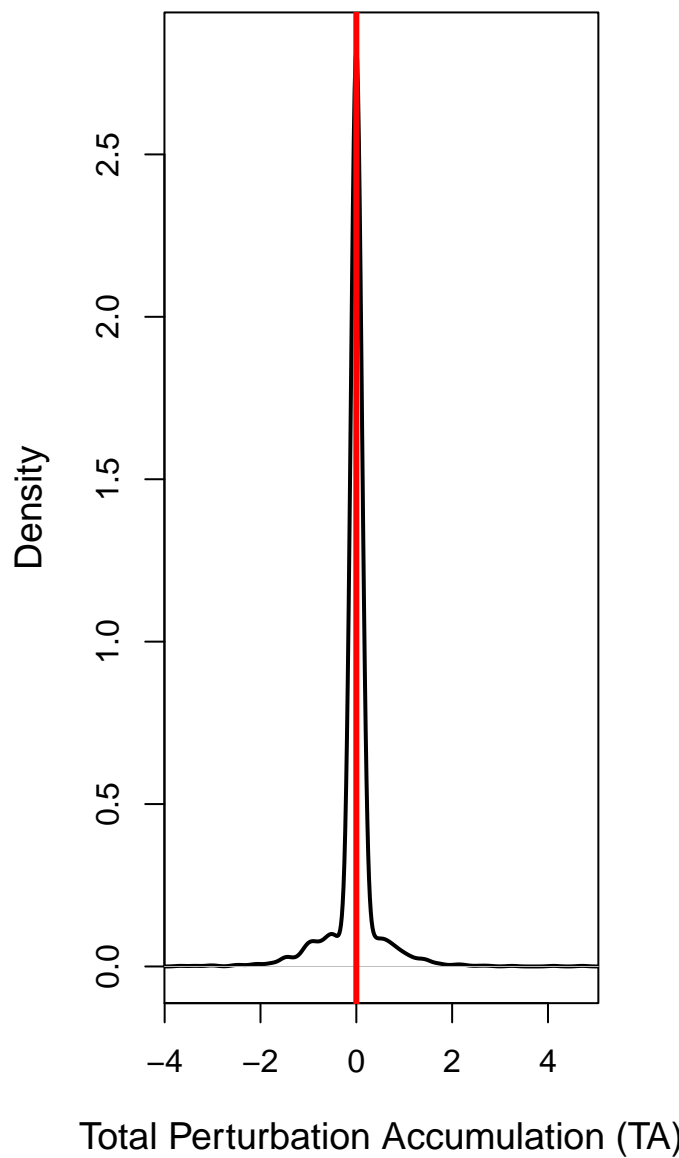
pathway ID=03320 P PERT=0.039



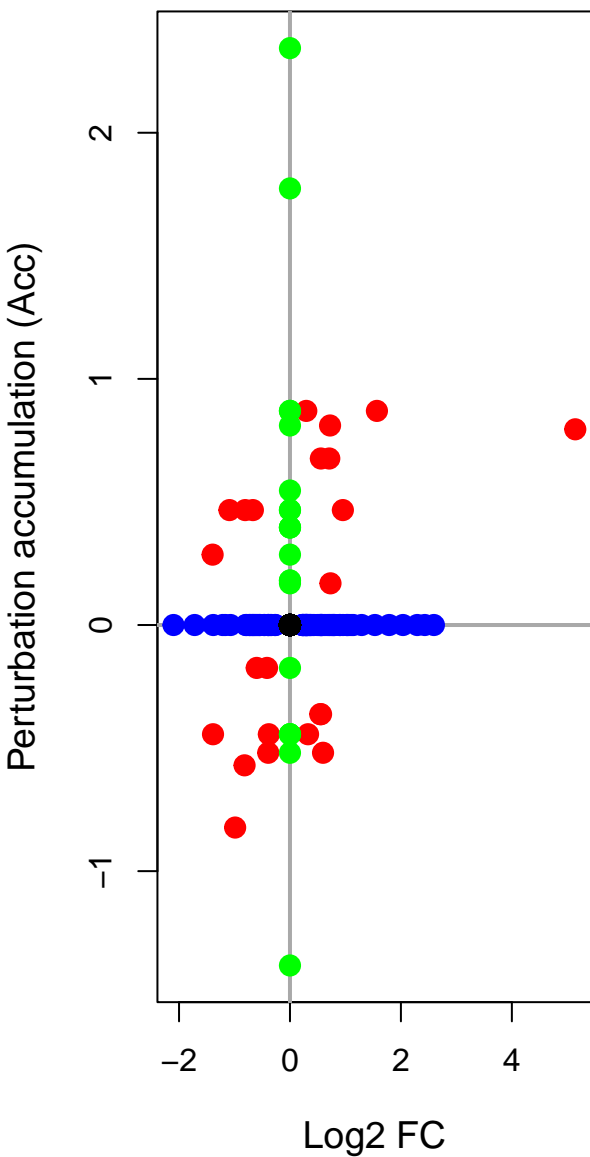
pathway ID=03460



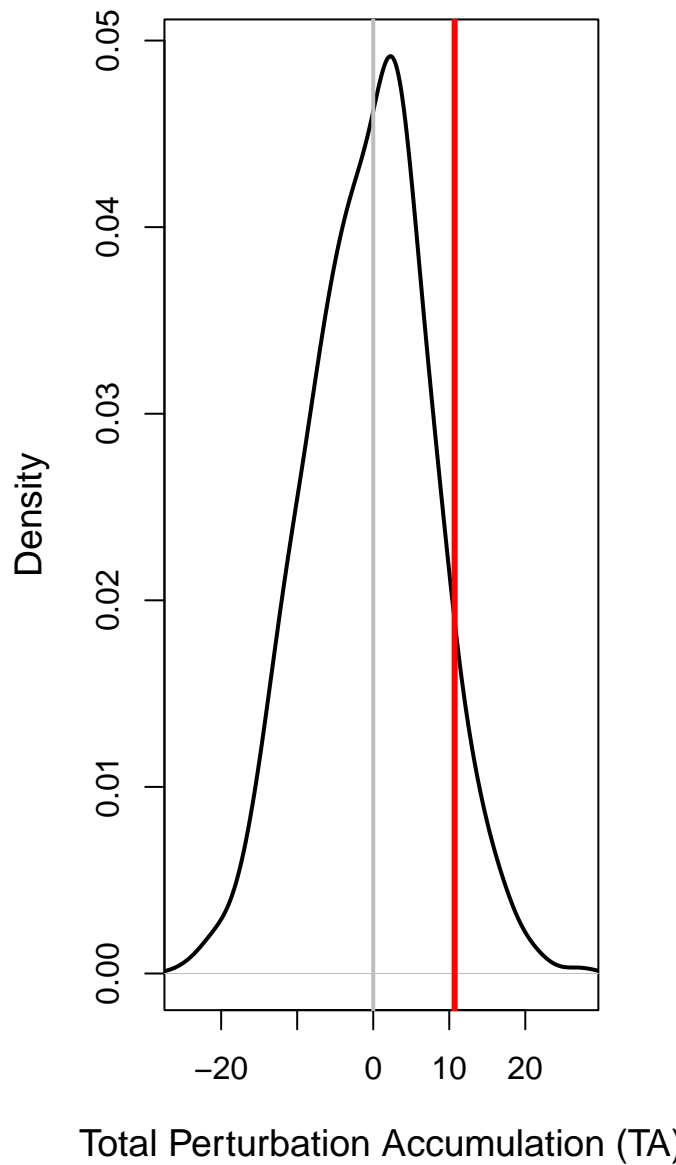
pathway ID=03460 P PERT=1



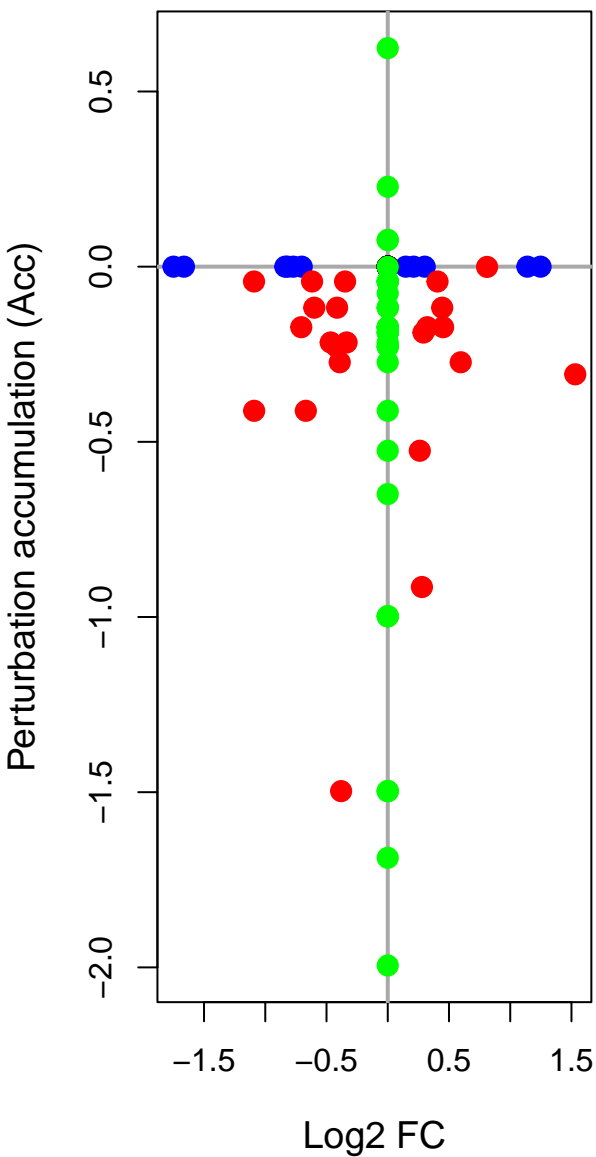
pathway ID=04010



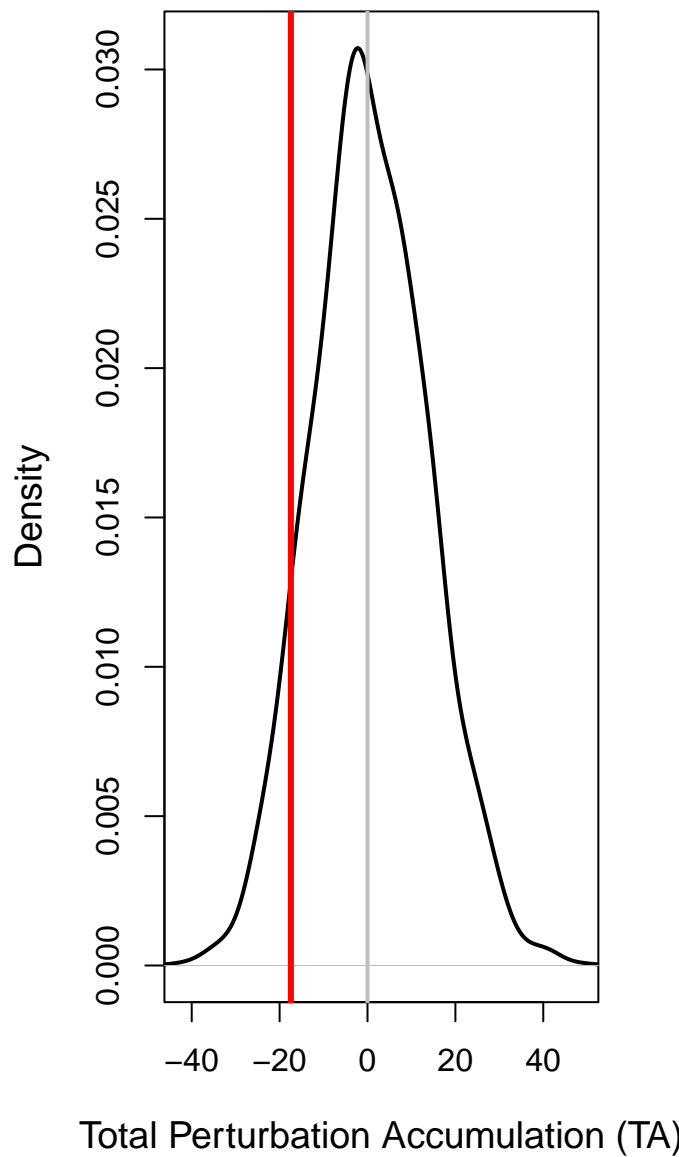
pathway ID=04010 P PERT=0.152



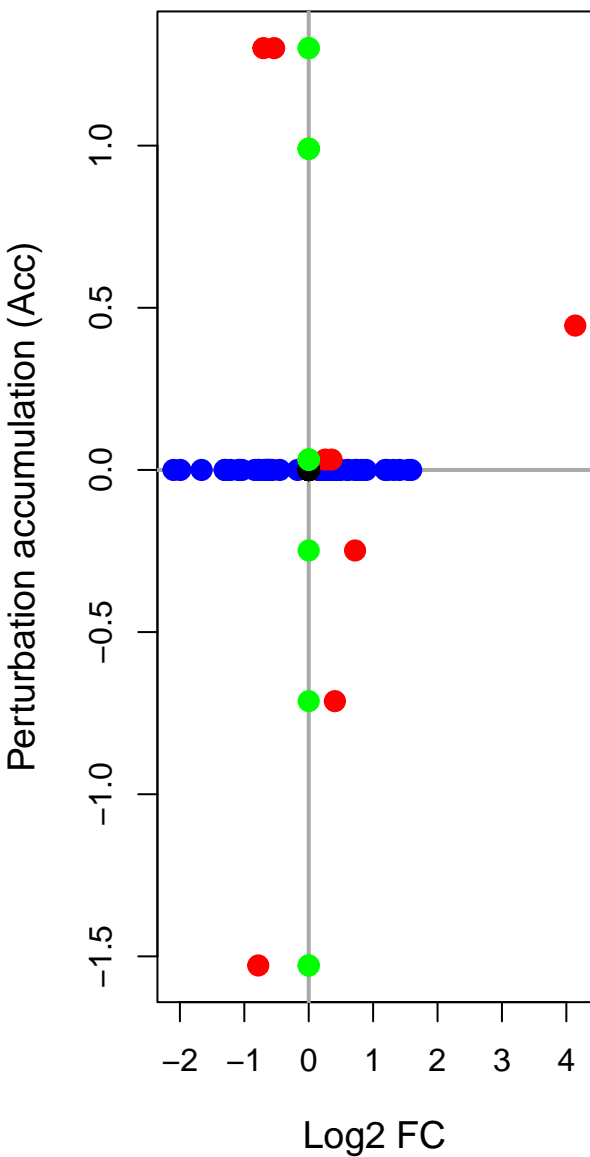
pathway ID=04012



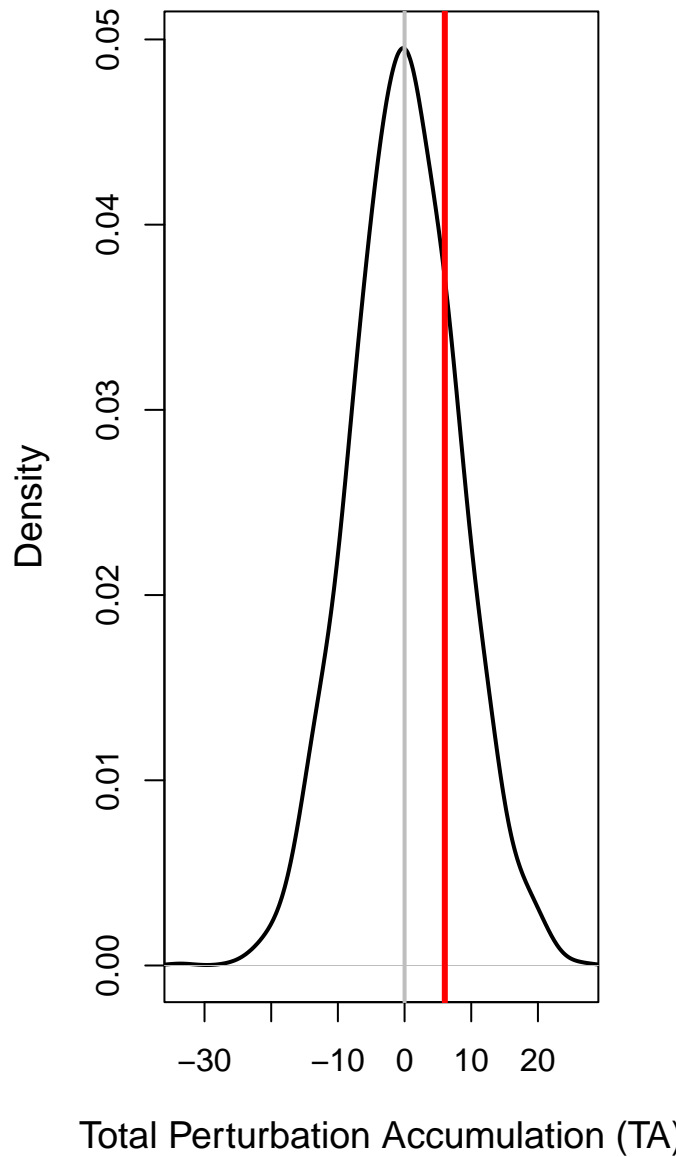
pathway ID=04012 P PERT=0.154



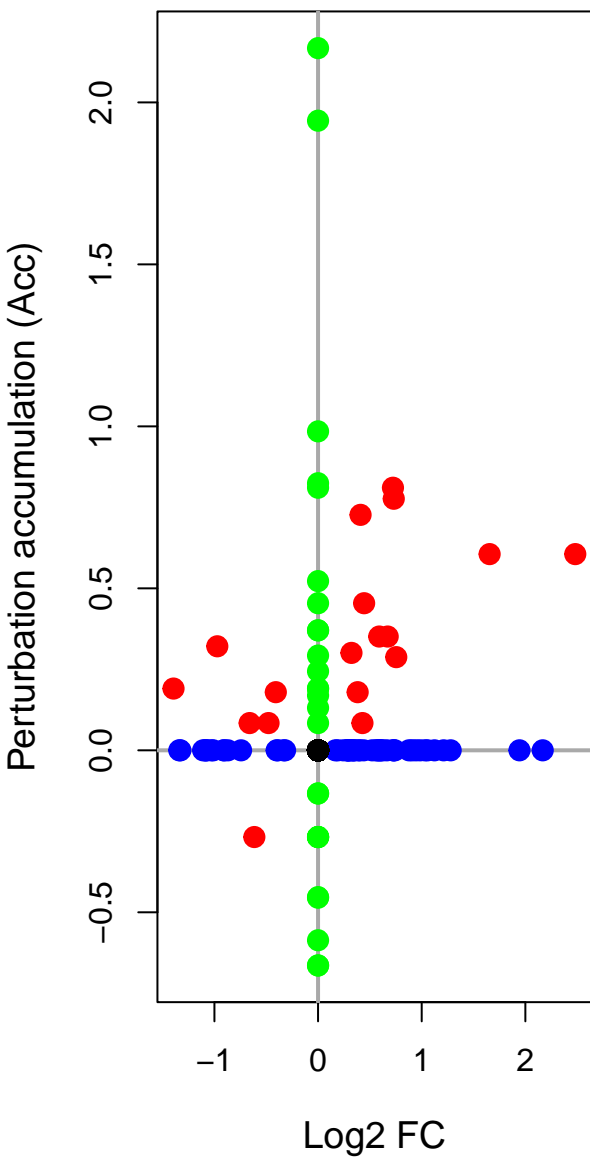
pathway ID=04020



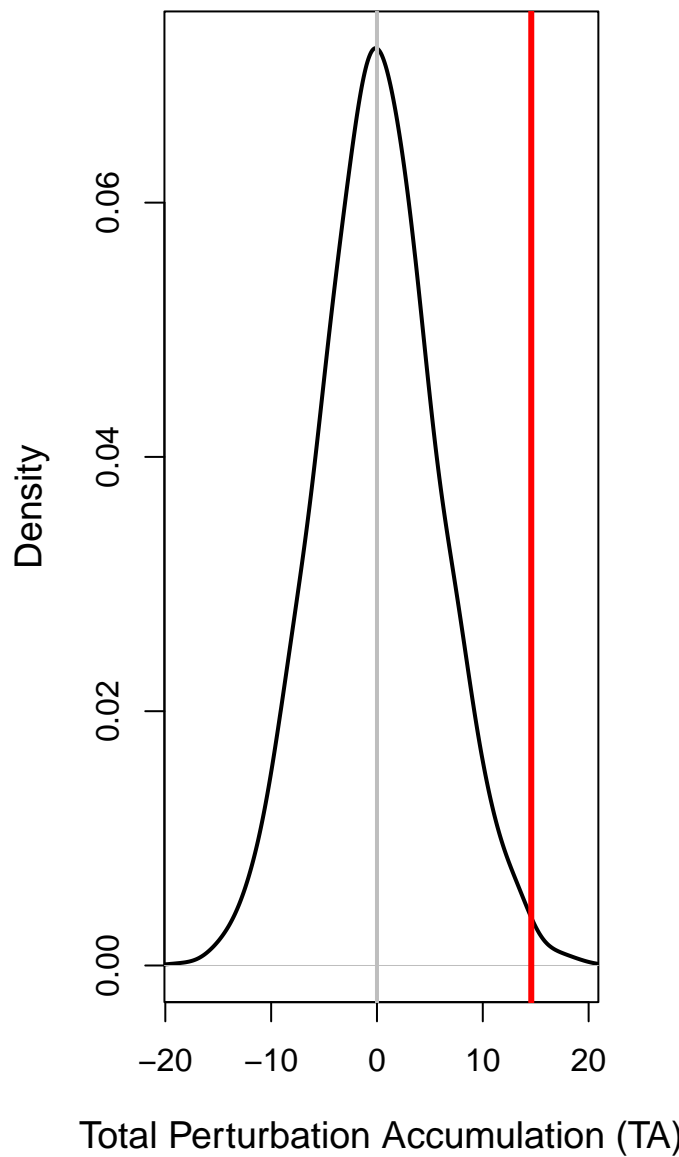
pathway ID=04020 P PERT=0.451



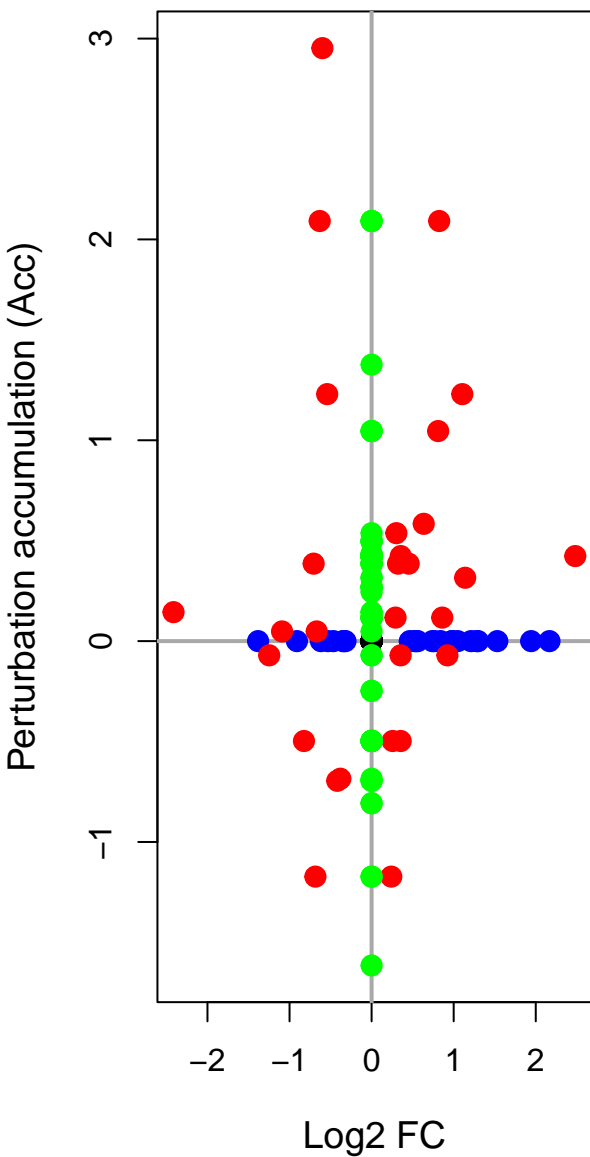
pathway ID=04060



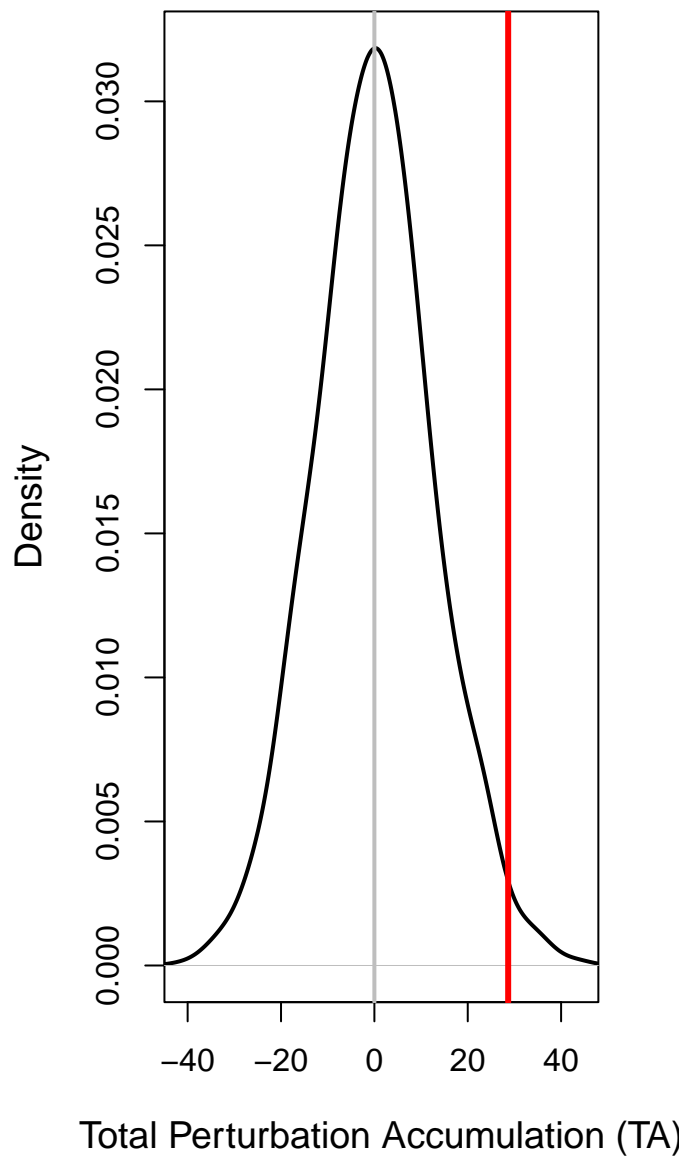
pathway ID=04060 P PERT=0.01



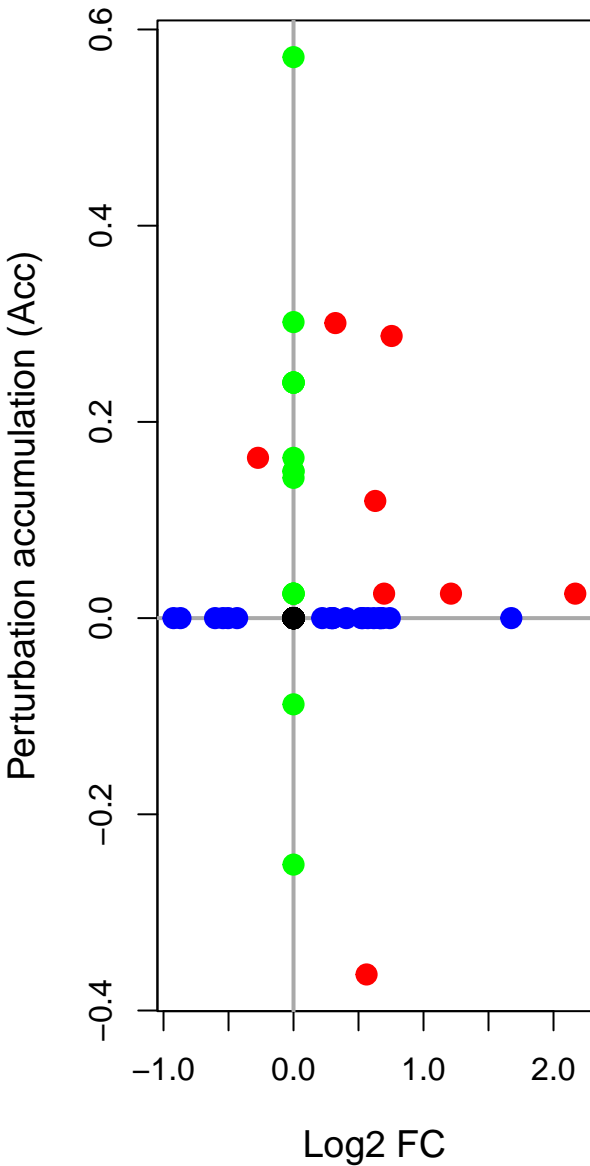
pathway ID=04062



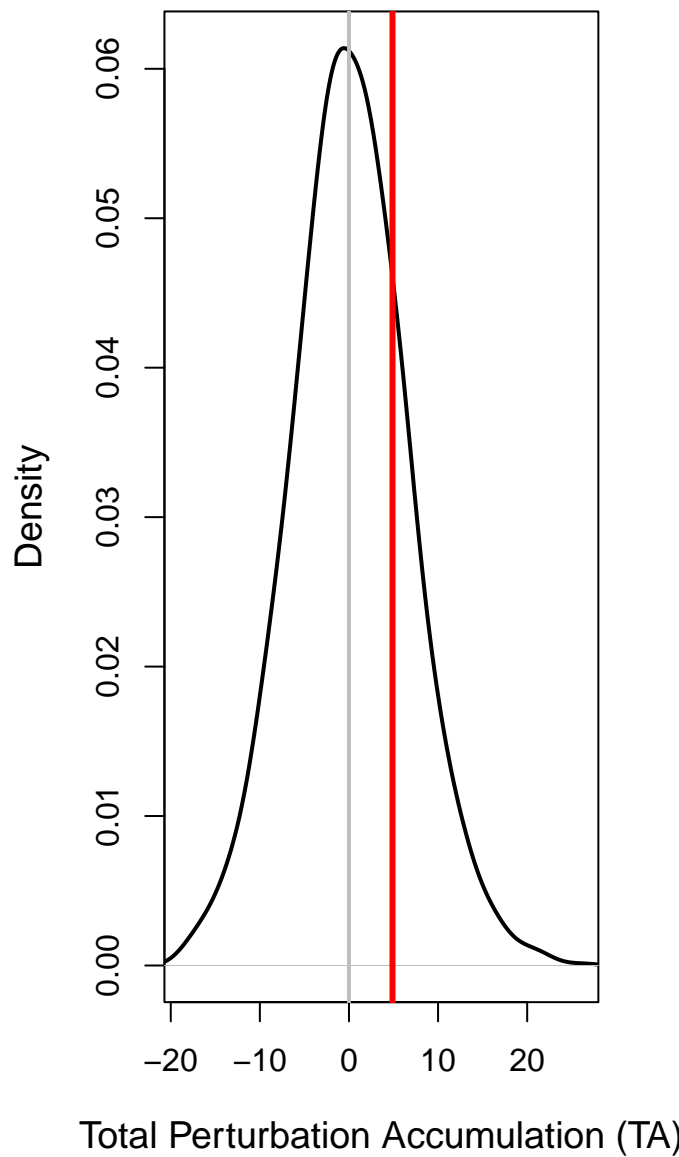
pathway ID=04062 P PERT=0.031



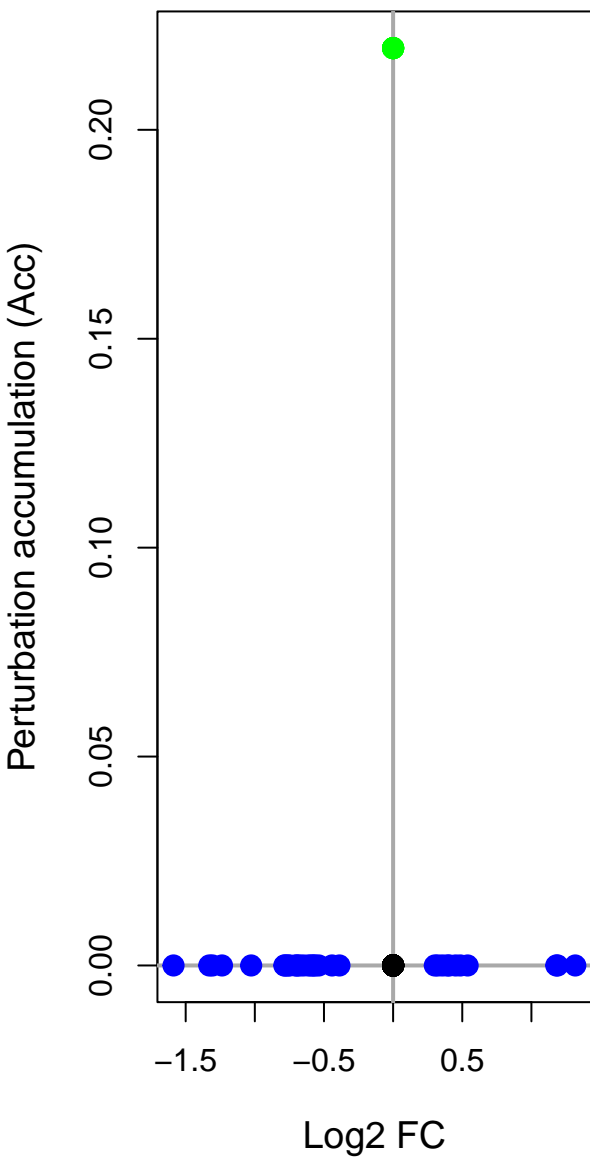
pathway ID=04064



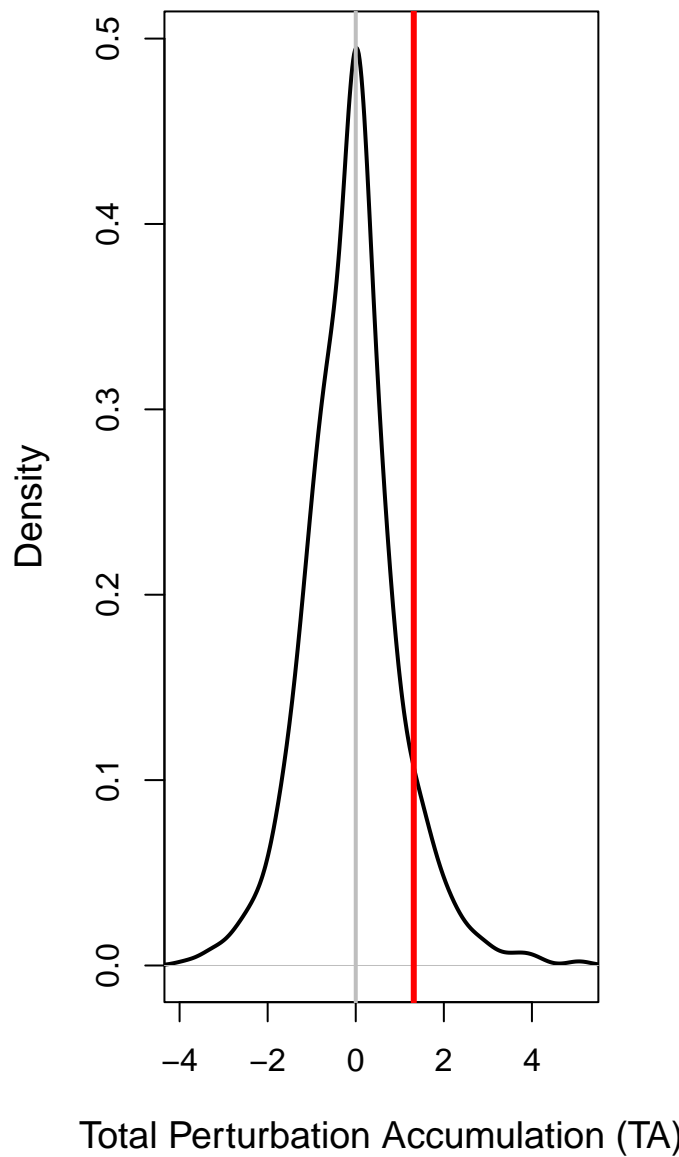
pathway ID=04064 P PERT=0.446



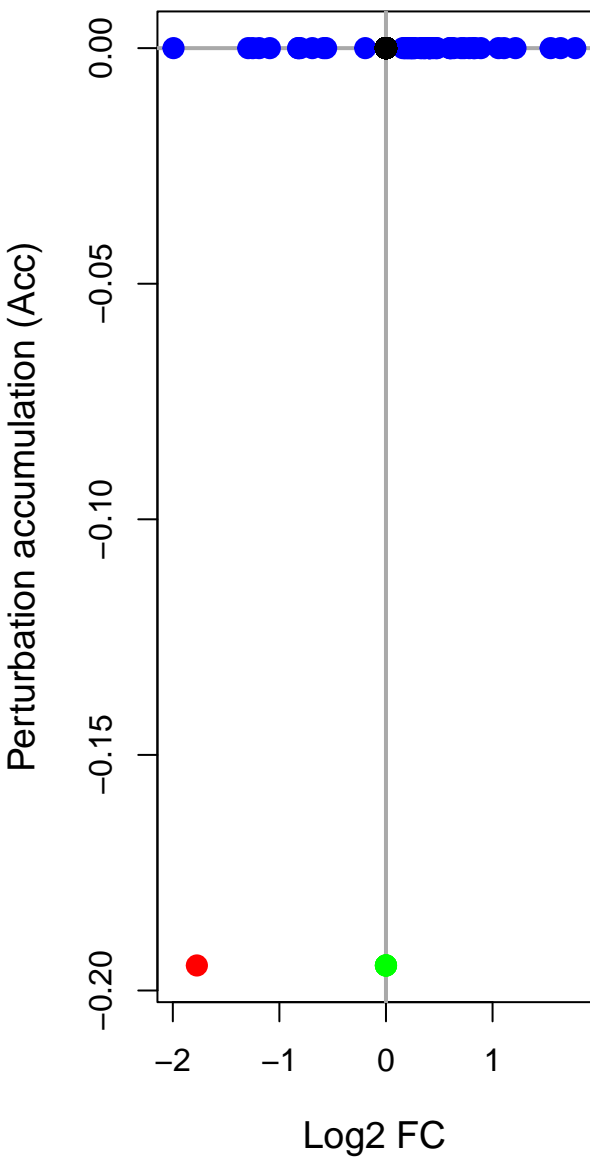
pathway ID=04070



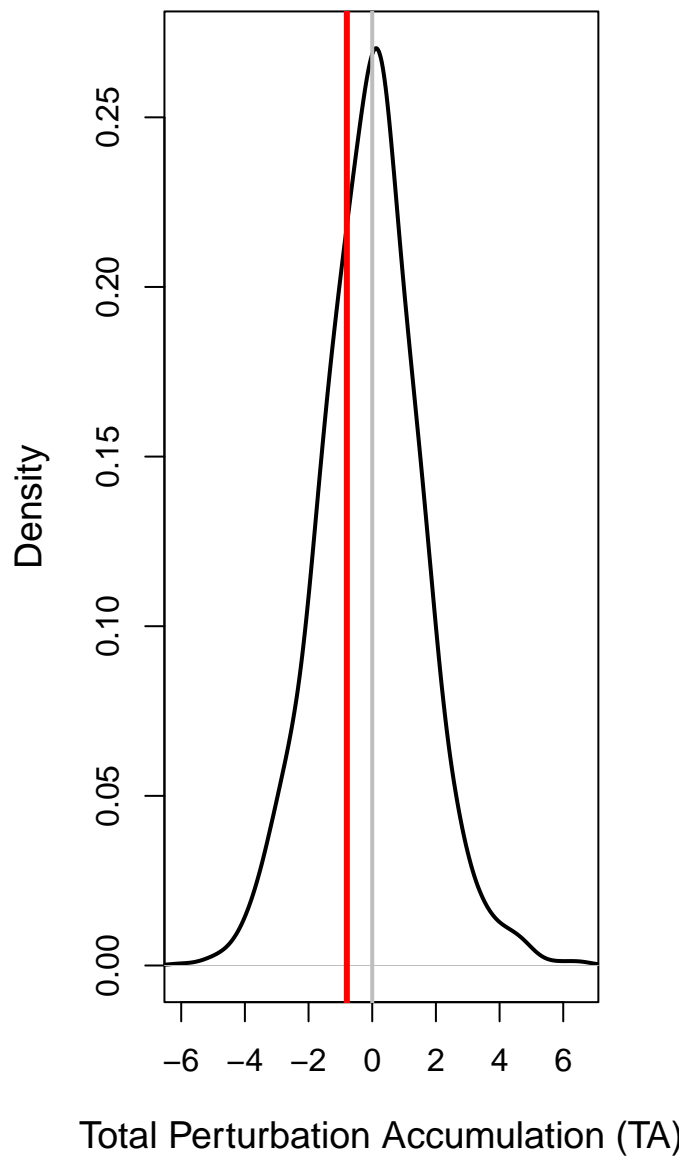
pathway ID=04070 P PERT=0.174



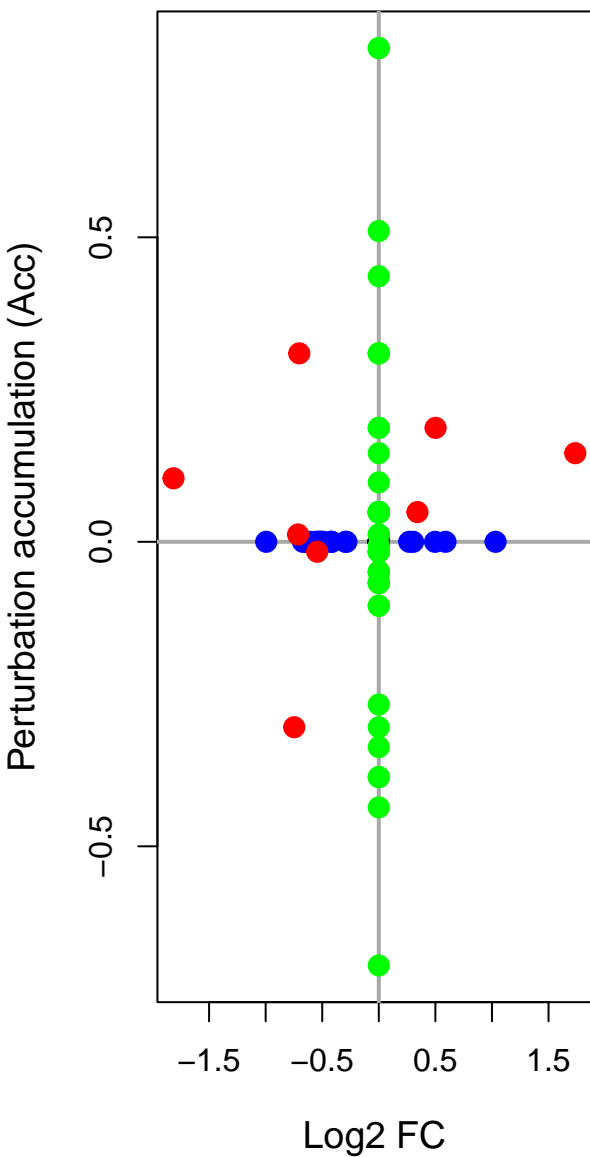
pathway ID=04080



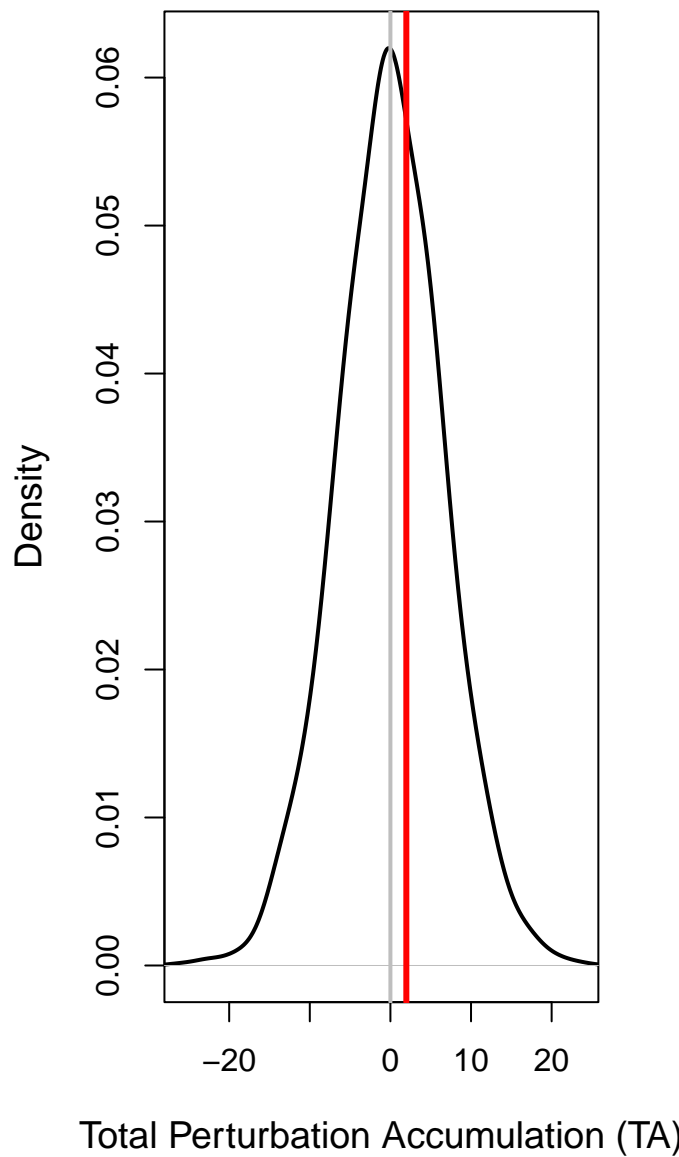
pathway ID=04080 P PERT=0.619



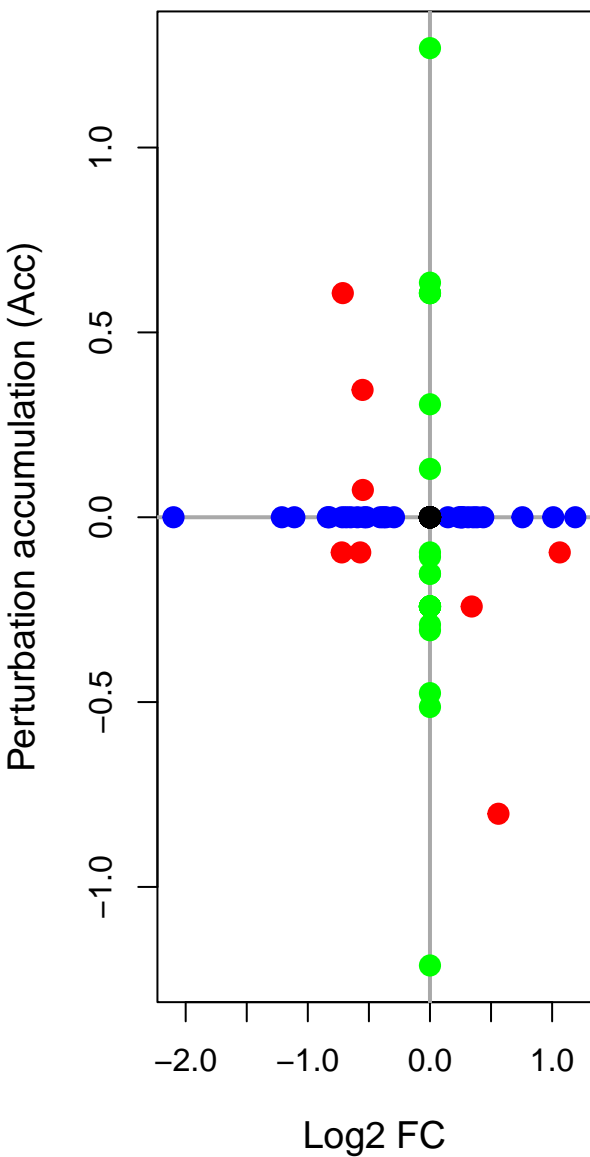
pathway ID=04110



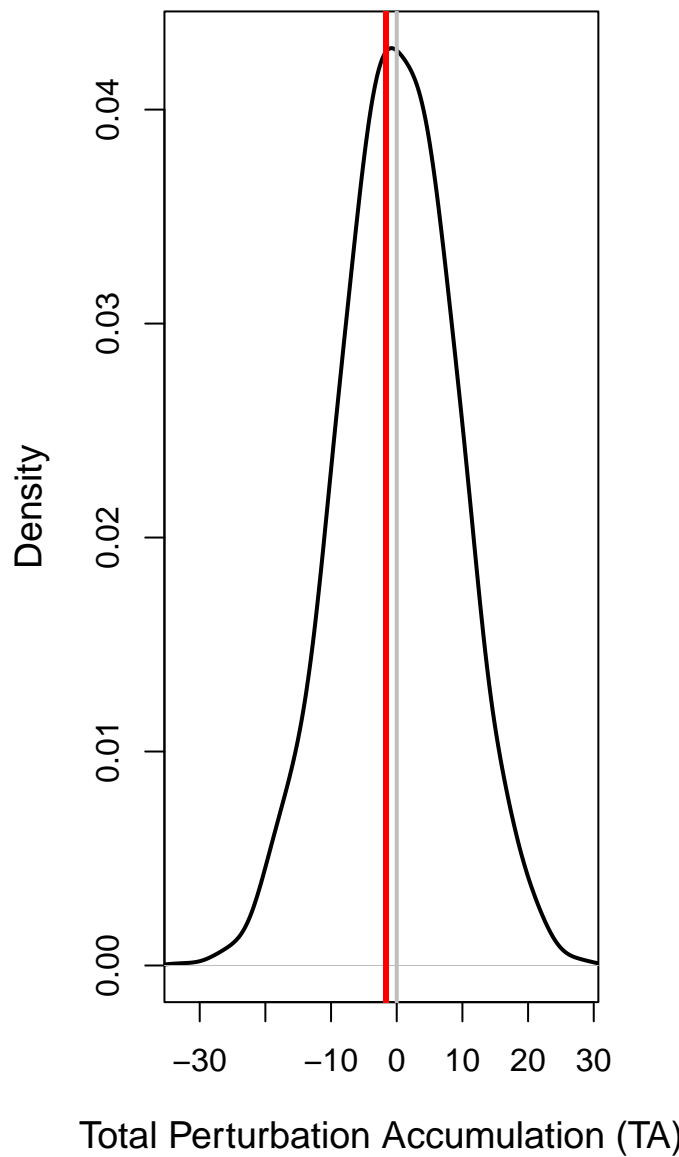
pathway ID=04110 P PERT=0.746



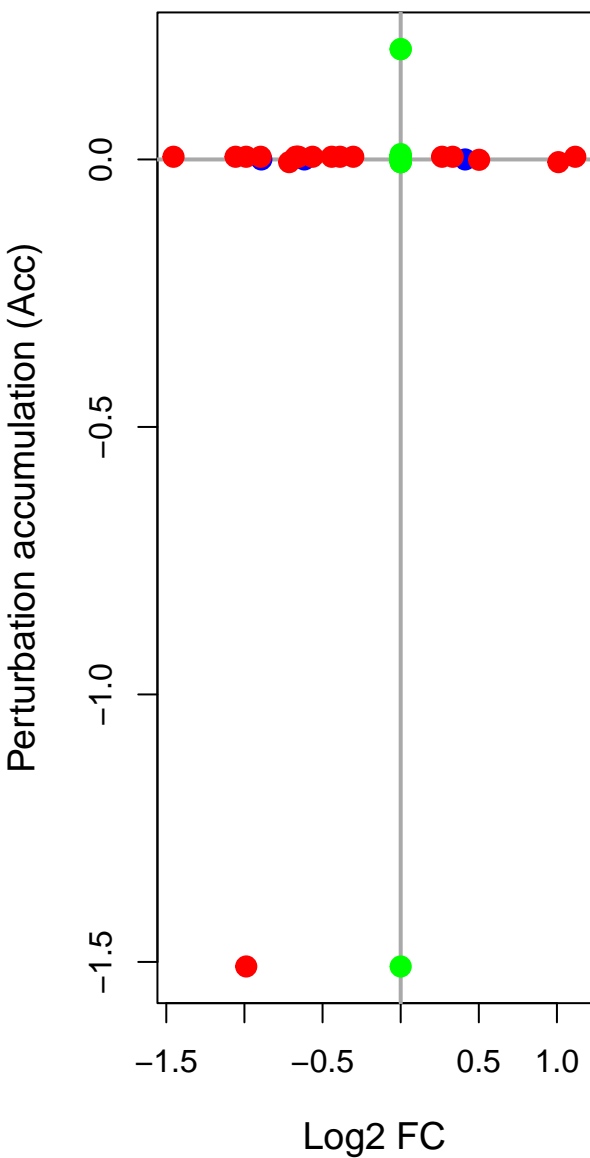
pathway ID=04114



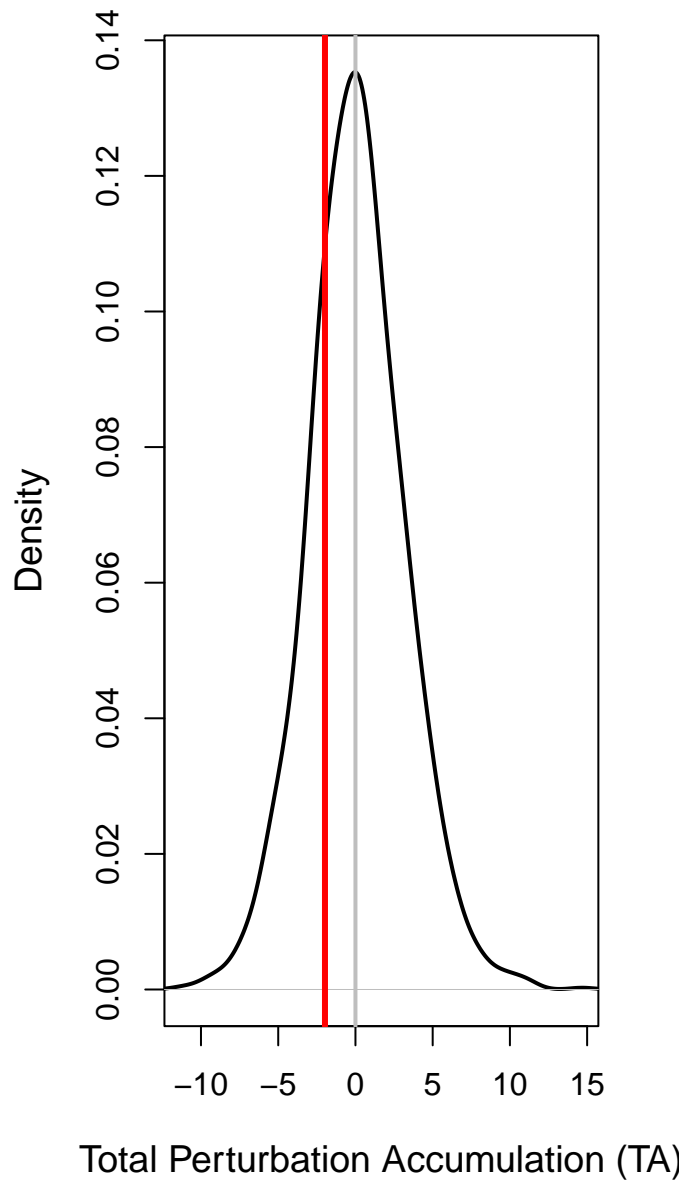
pathway ID=04114 P PERT=0.84



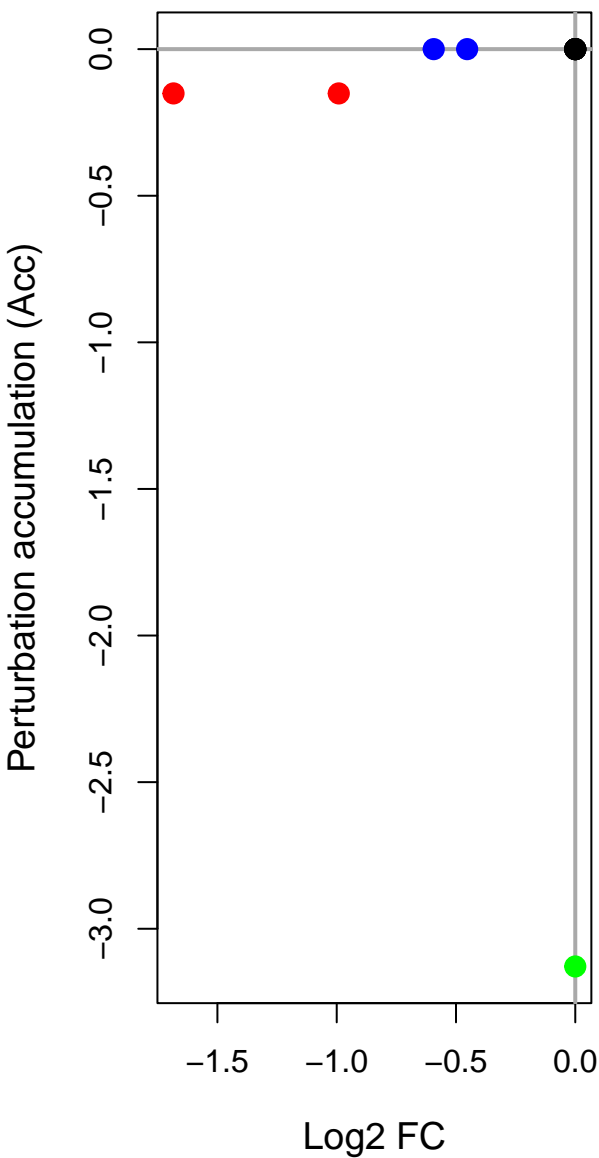
pathway ID=04115



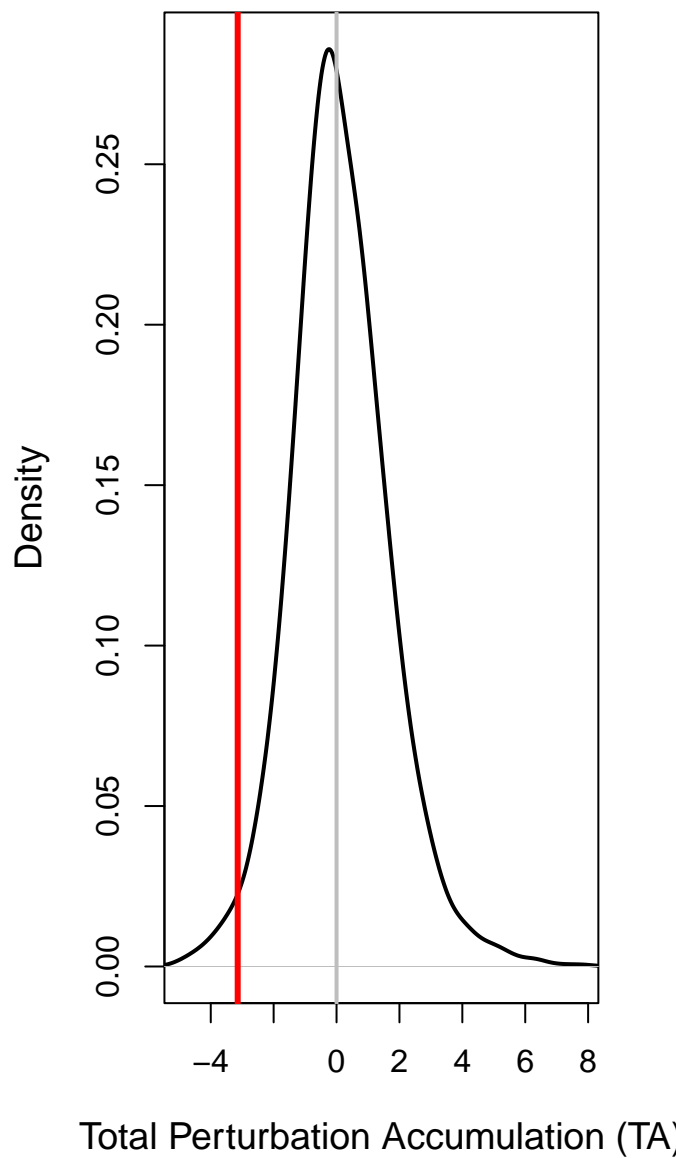
pathway ID=04115 P PERT=0.493



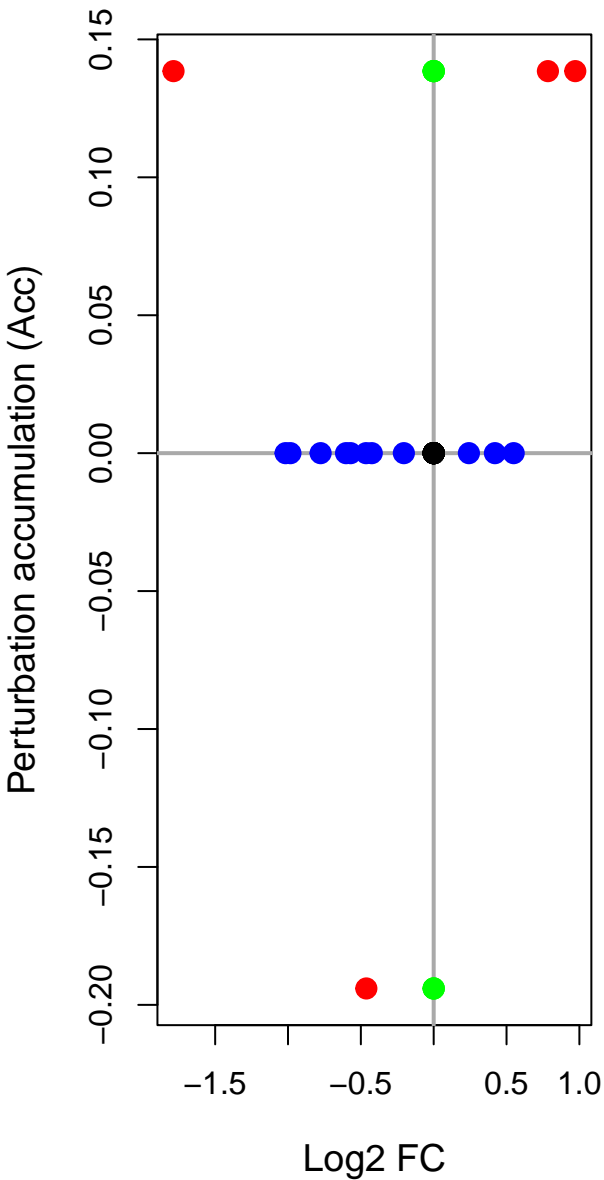
pathway ID=04122



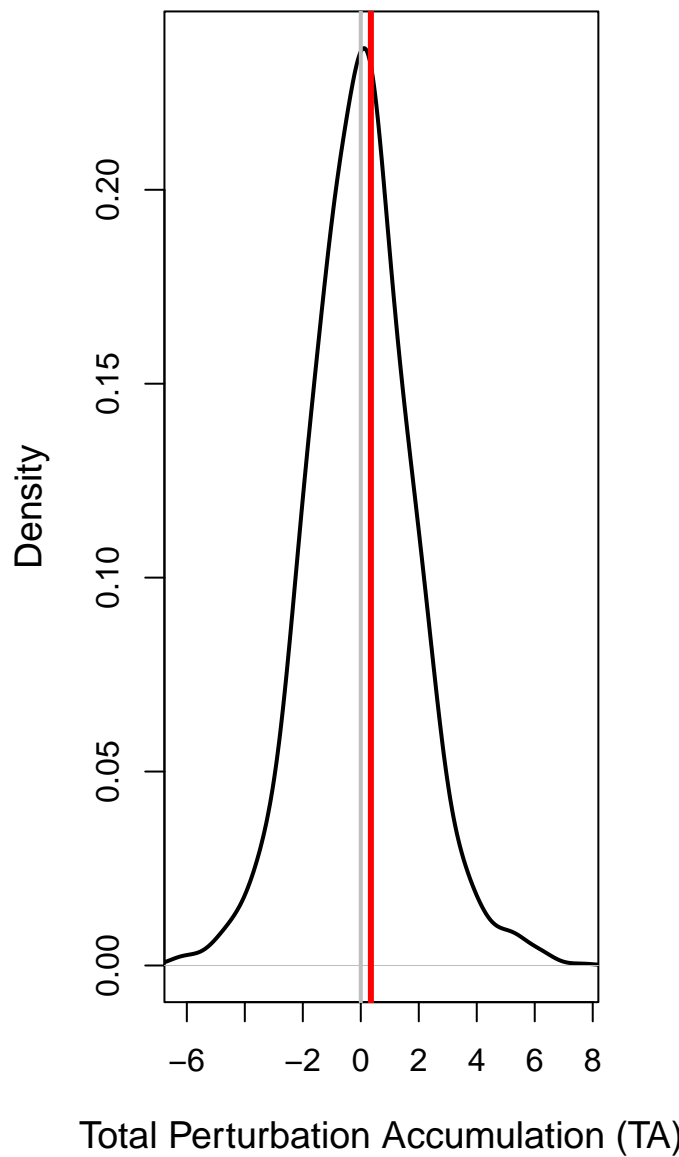
pathway ID=04122 P PERT=0.036



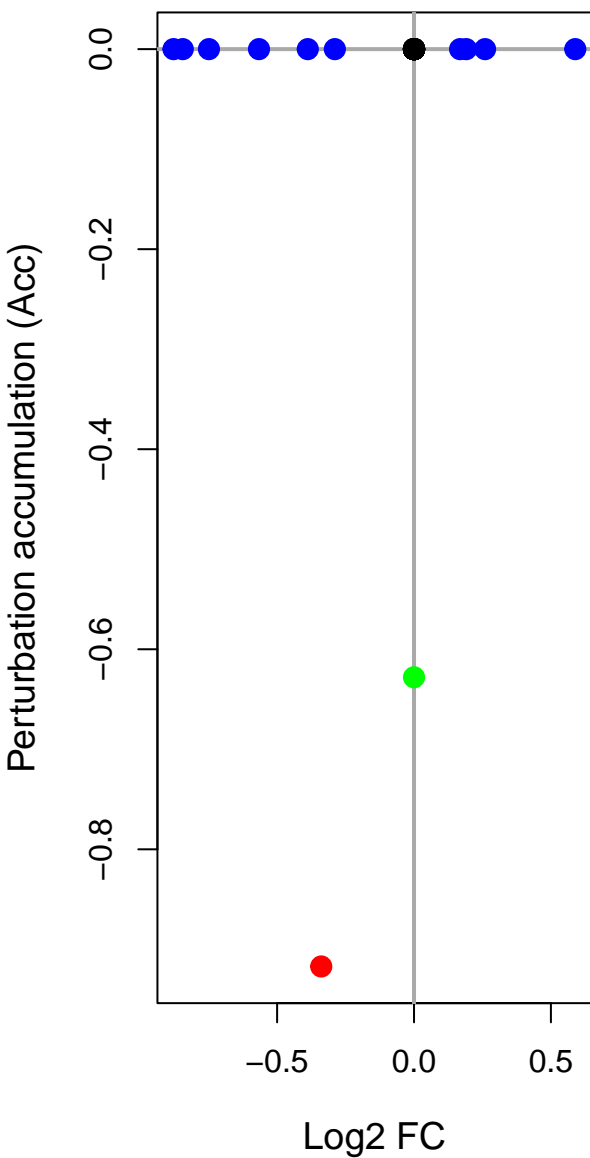
pathway ID=04130



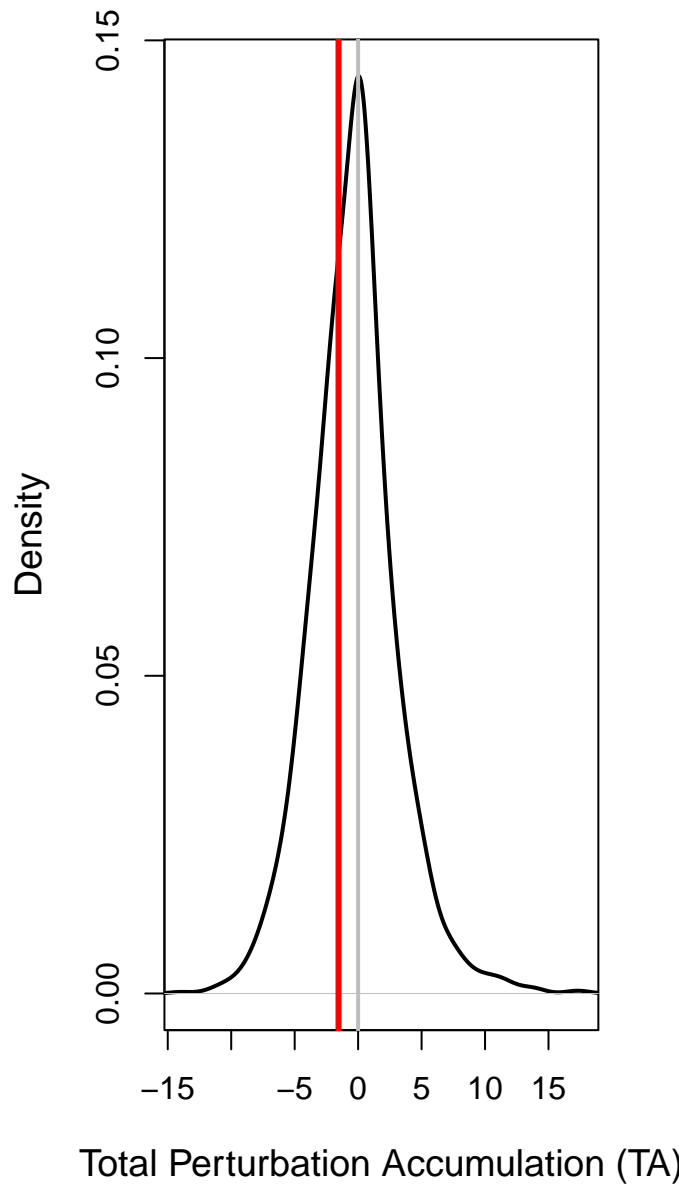
pathway ID=04130 P PERT=0.808



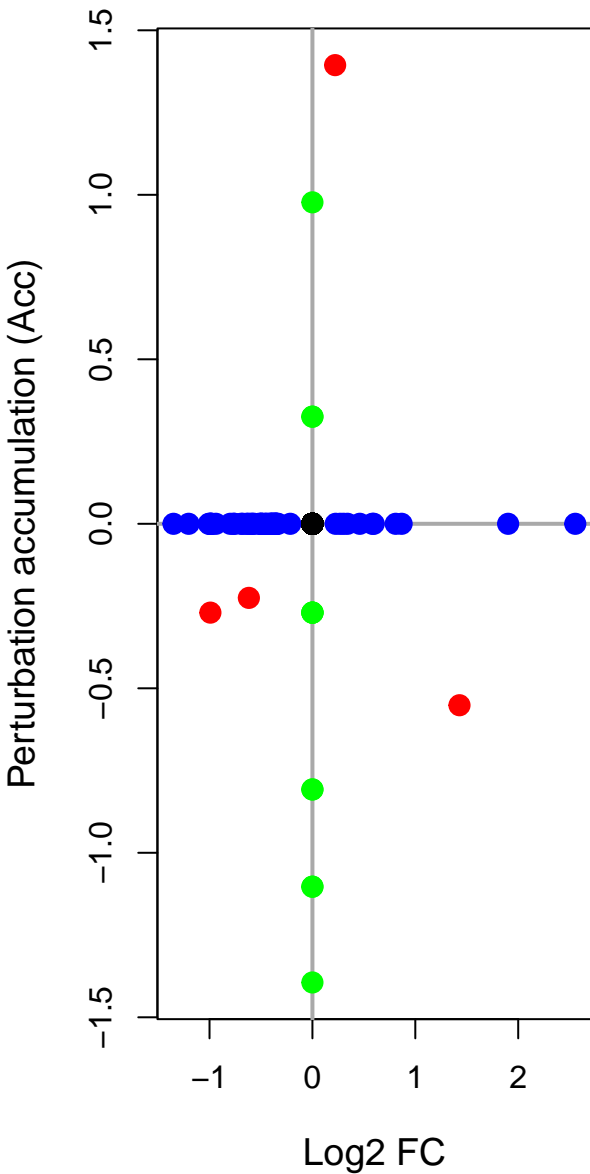
pathway ID=04140



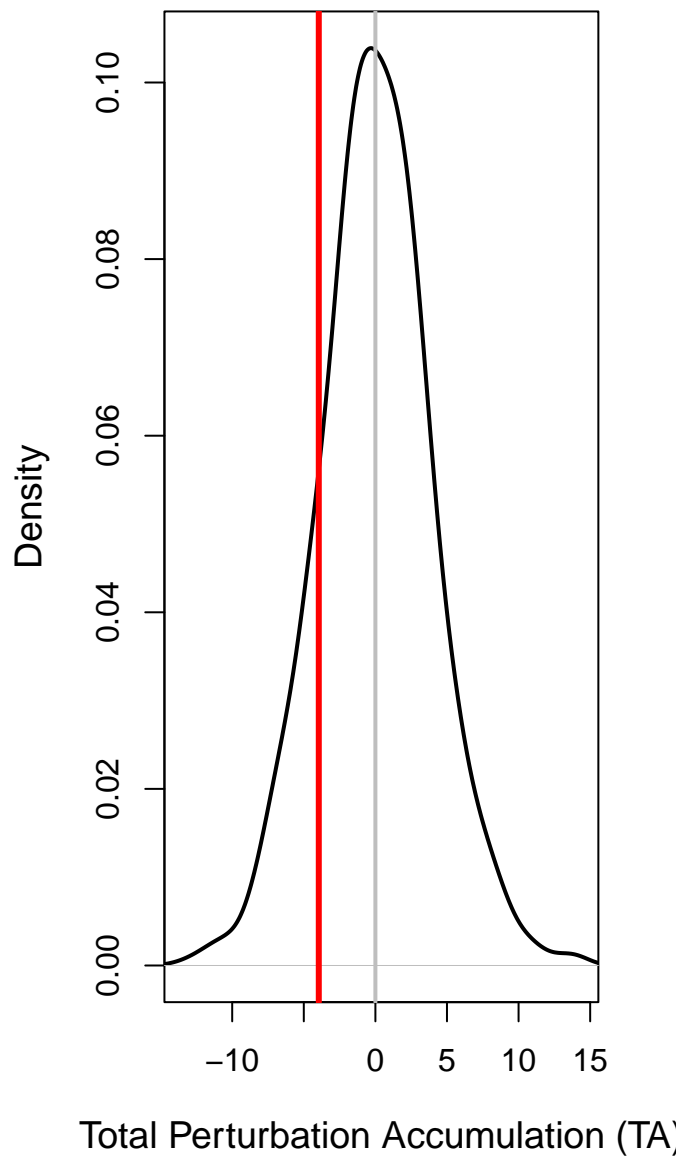
pathway ID=04140 P PERT=0.694



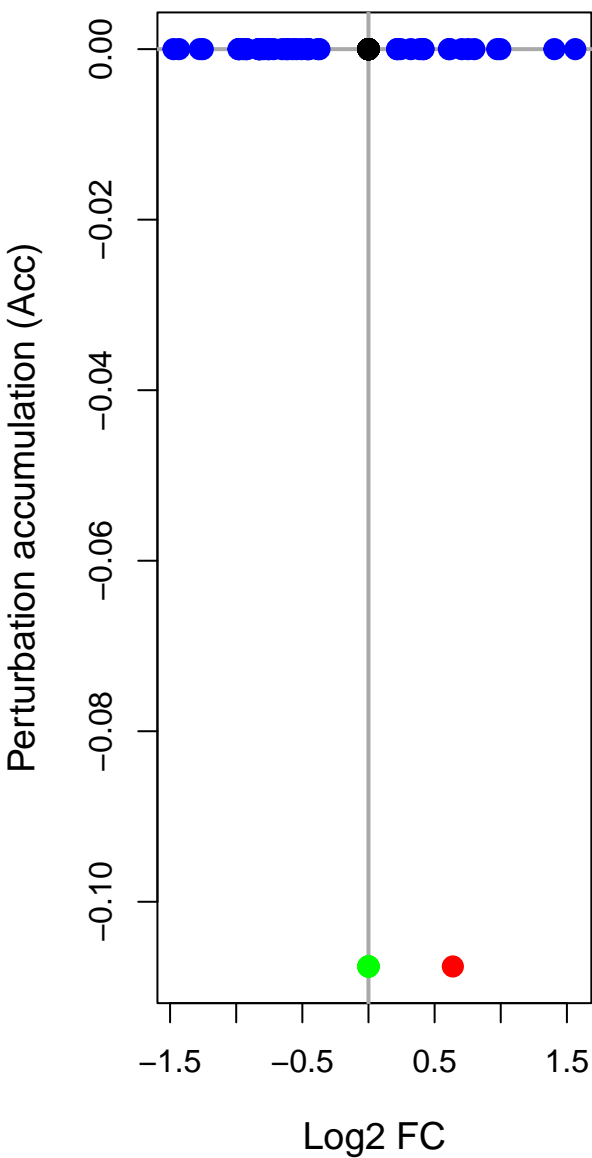
pathway ID=04141



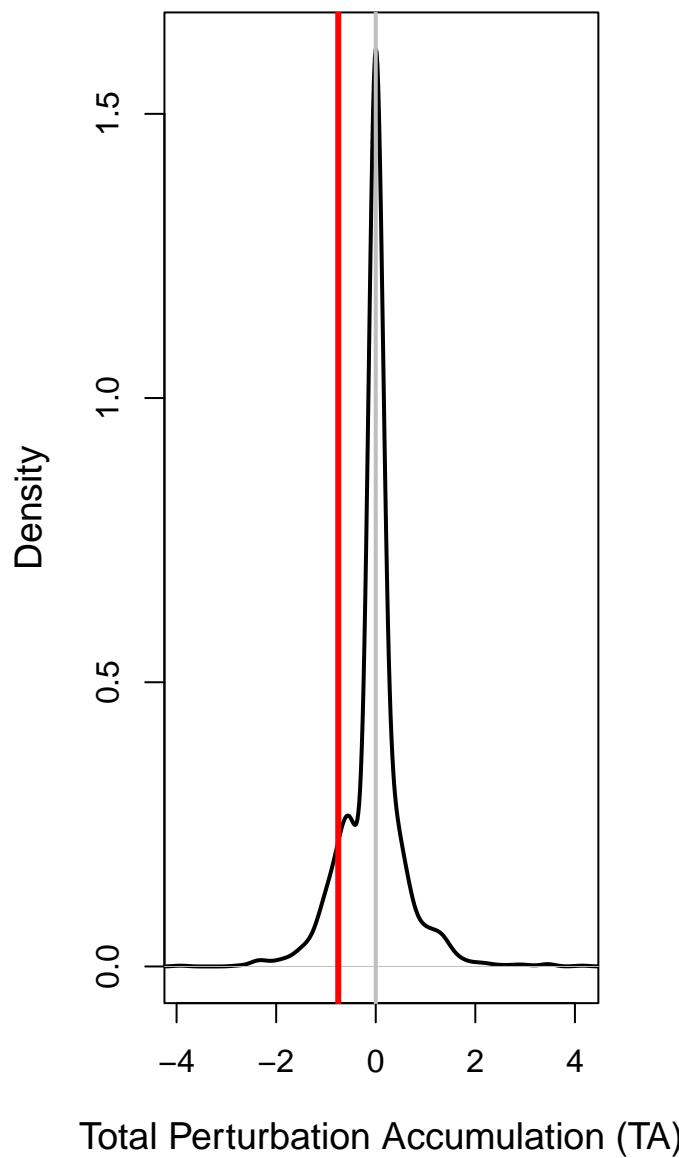
pathway ID=04141 P PERT=0.301



pathway ID=04142

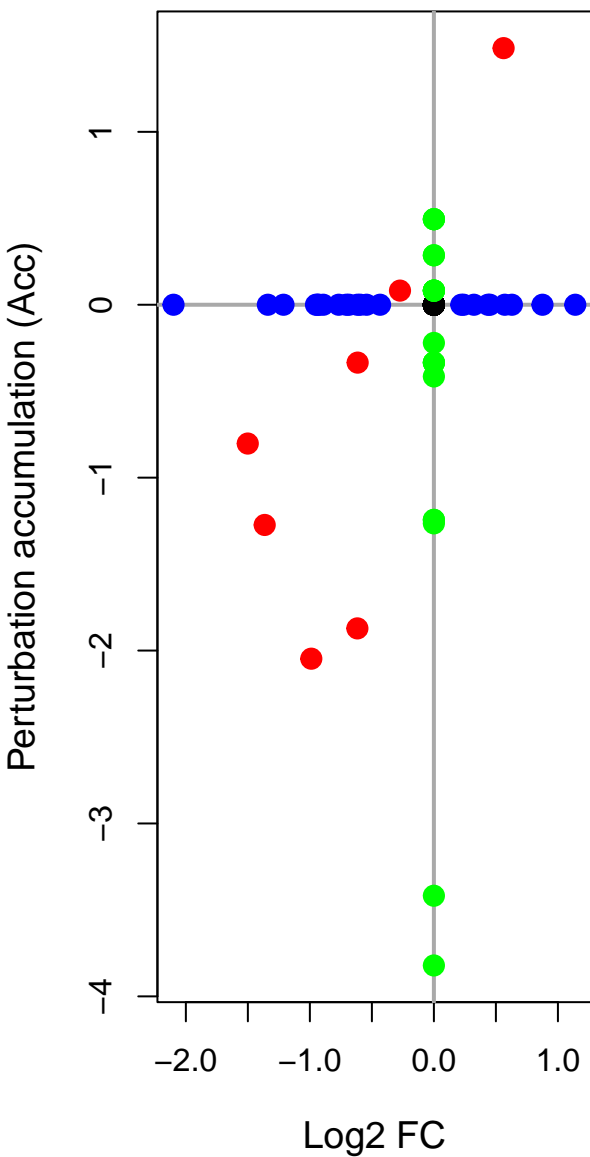


pathway ID=04142 P PERT=0.183

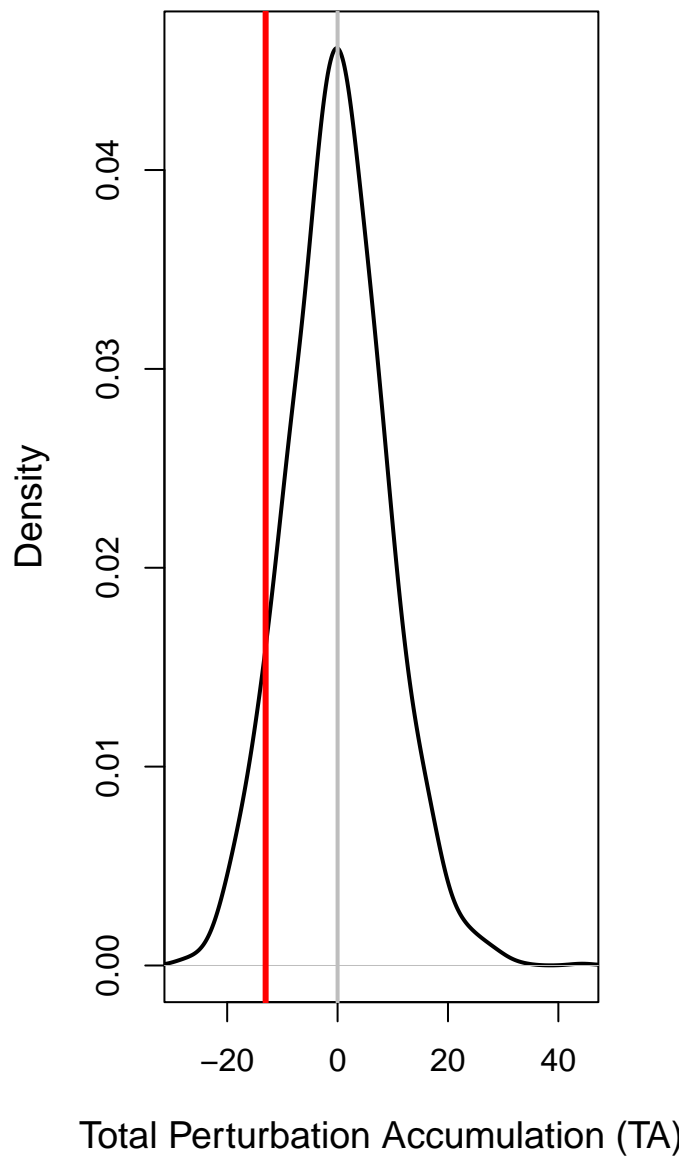


A plot of a normal distribution curve. The x-axis is labeled with values -10, -5, 0, and 5. The y-axis is labeled with values 0.00, 0.05, 0.10, and 0.15. A vertical gray line is drawn at x=0, and a vertical red line is drawn at approximately x=1.5. The curve is centered at x=0 and reaches its maximum value of approximately 0.16 at x=0.

pathway ID=04210



pathway ID=04210 P PERT=0.147



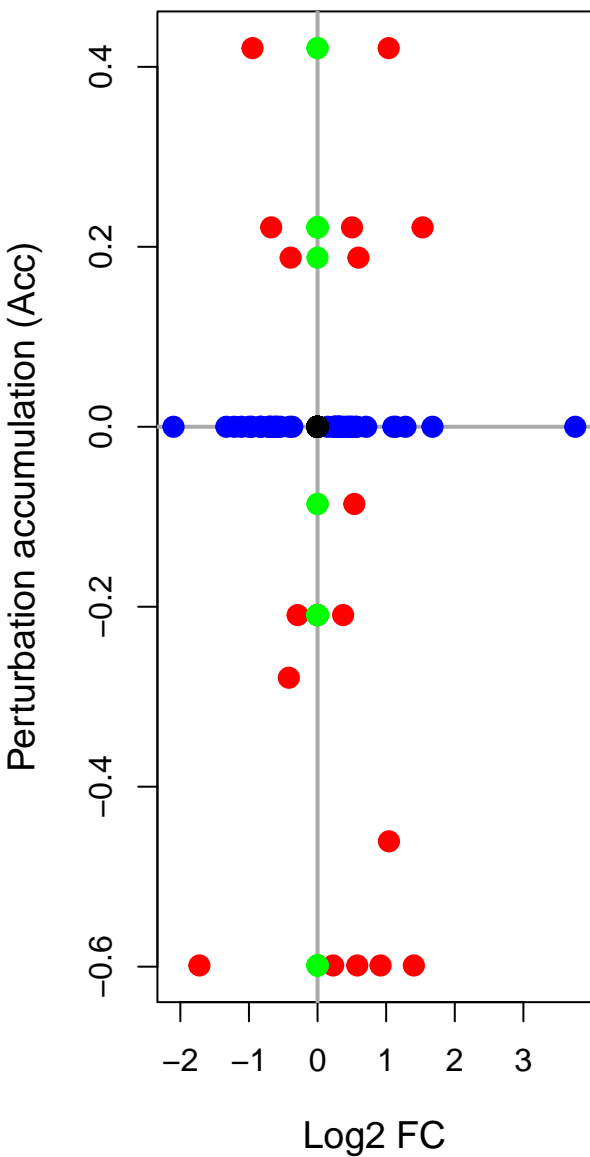
A scatter plot with a white background and a black border. The x-axis is labeled from -2 to 3 with major ticks at -2, -1, 0, 1, 2, and 3. The y-axis is labeled from -2 to 3 with major ticks at -2, -1, 0, 1, 2, and 3. A horizontal gray line is drawn at y=0, and a vertical gray line is drawn at x=0. Data points are represented by solid circles. There are three main clusters: a red cluster of approximately 15 points, a green cluster of approximately 10 points, and a blue cluster of approximately 15 points. A single black point is located at the origin (0,0). The red points are scattered across the plot, with some at the top right and bottom left. The green points are concentrated along the y-axis, particularly in the upper half. The blue points are concentrated along the x-axis, particularly in the right half.

Density

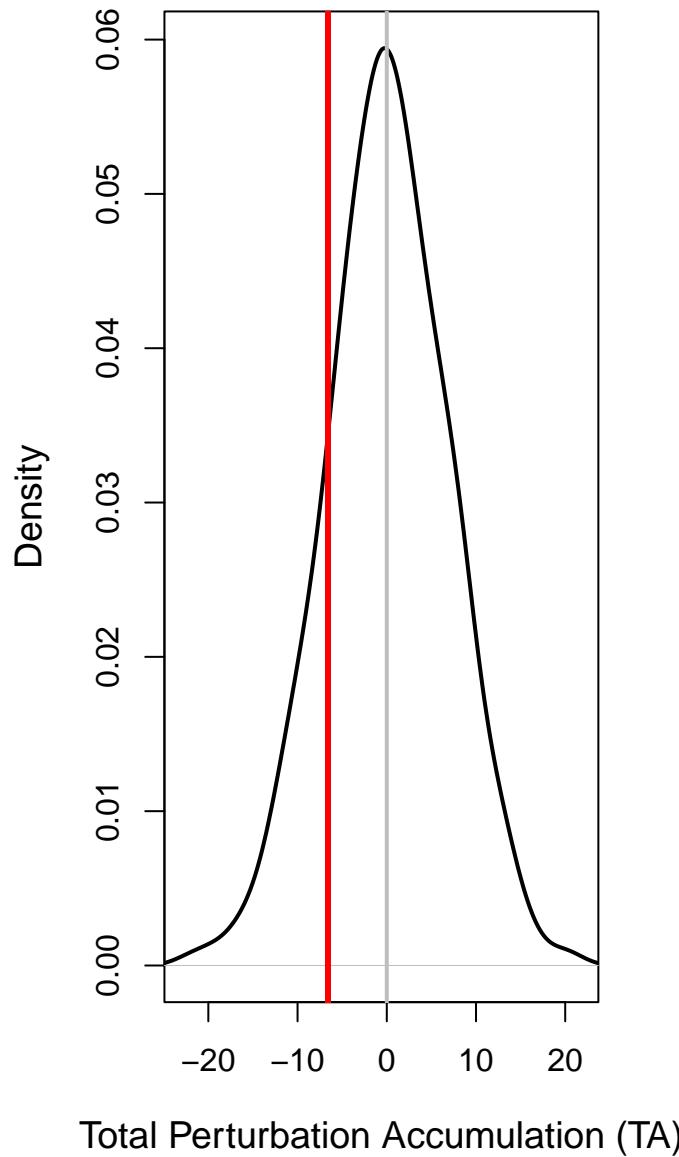
A plot of a normal distribution curve. The x-axis ranges from -30 to 30 with major ticks at -30, -10, 10, and 30. The y-axis ranges from 0.00 to 0.04 with major ticks at 0.00, 0.01, 0.02, 0.03, and 0.04. A black curve represents the probability density function, peaking at approximately 0.042. A vertical red line is drawn at the peak of the curve, which is at approximately x = -5. A vertical grey line is also drawn at the same position, slightly to the left of the red line.

Total Perturbation Accumulation (TA)

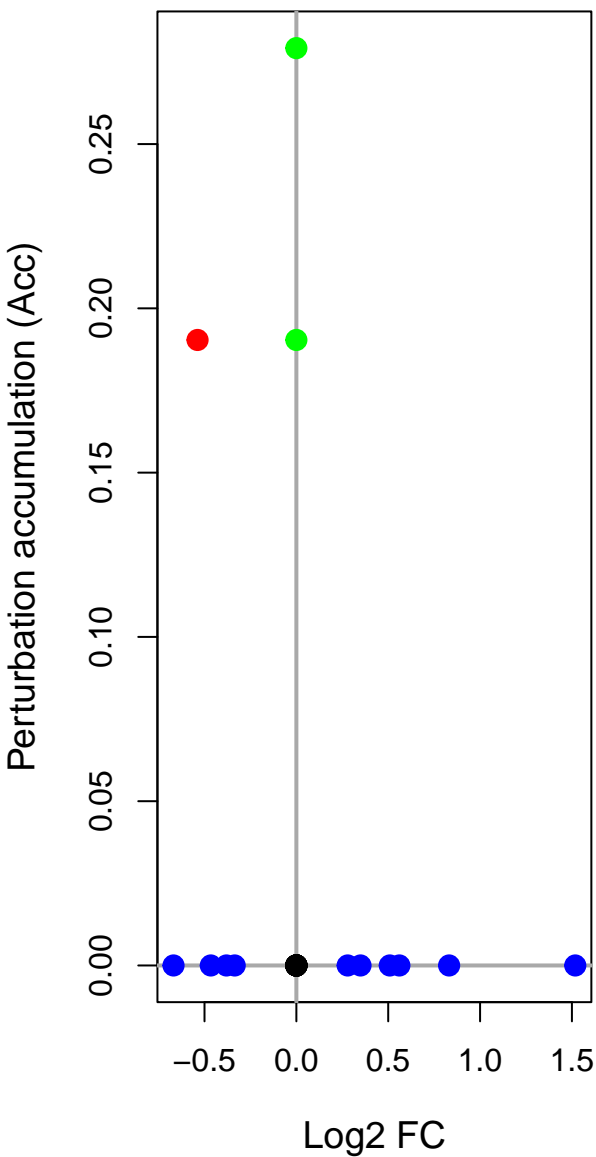
pathway ID=04310



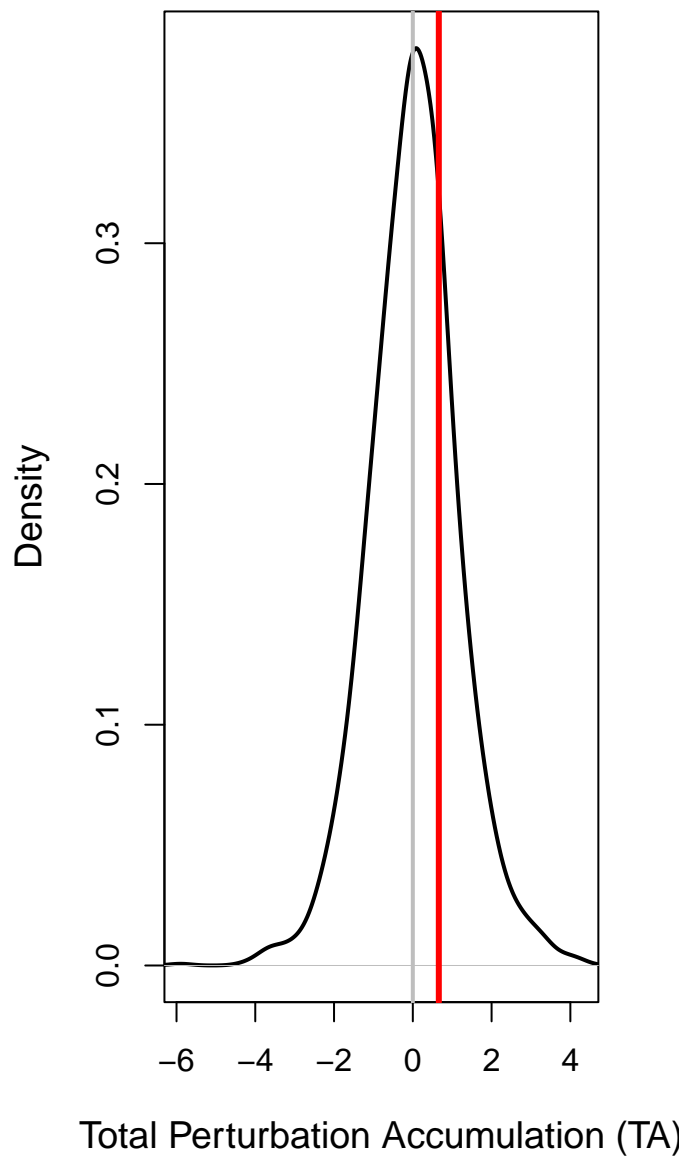
pathway ID=04310 P PERT=0.318



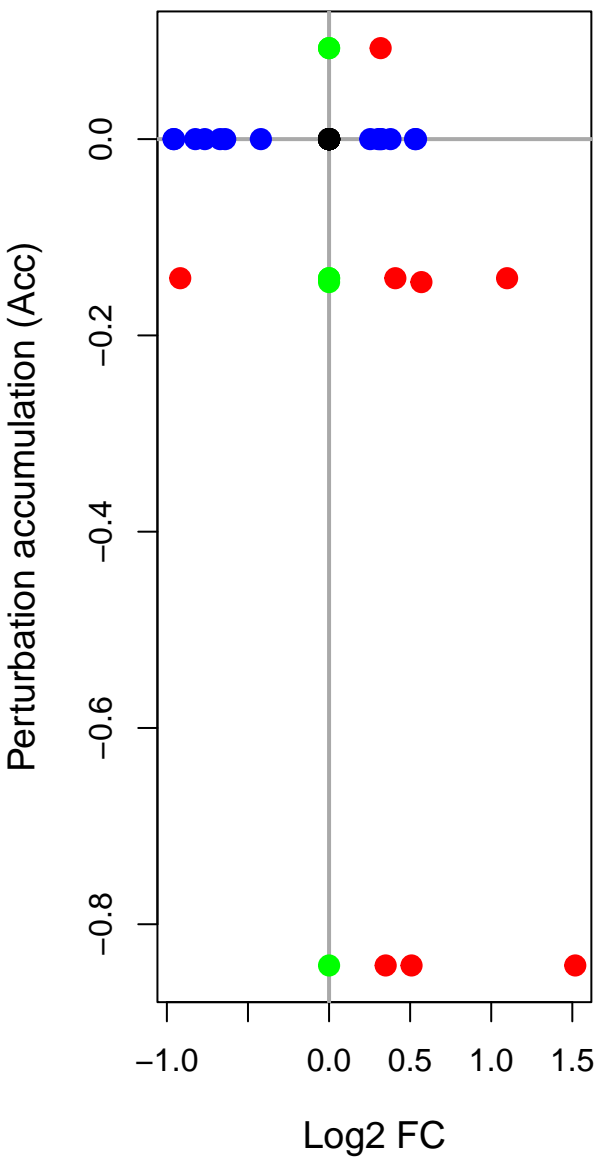
pathway ID=04320



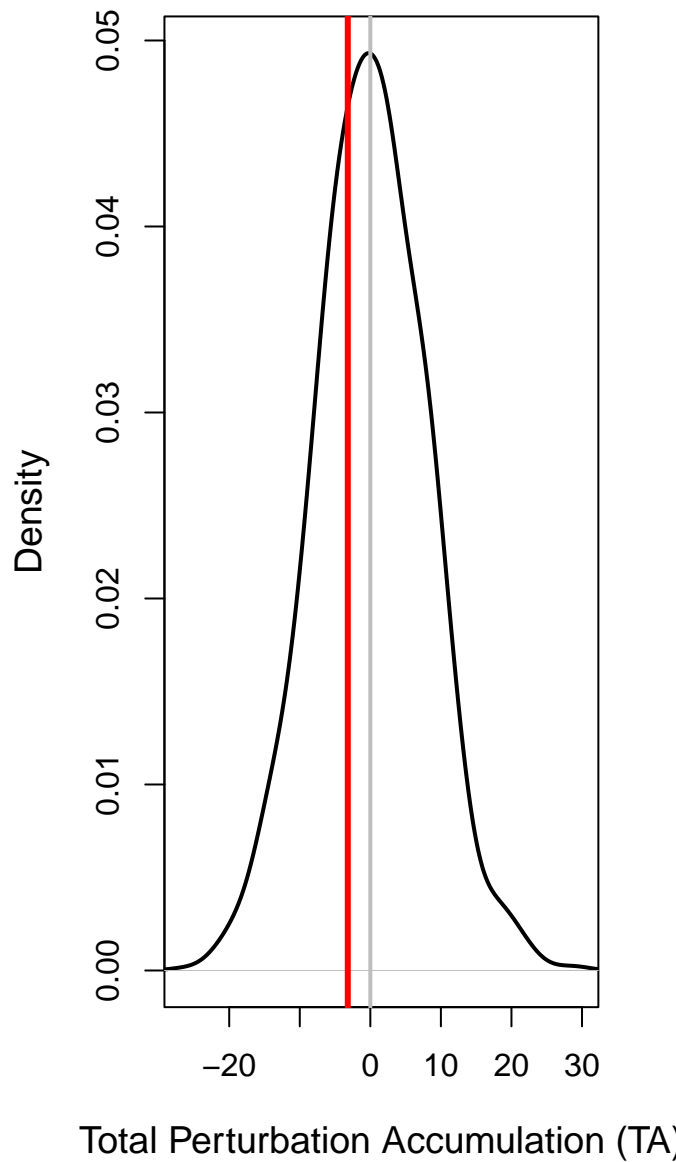
pathway ID=04320 P PERT=0.528



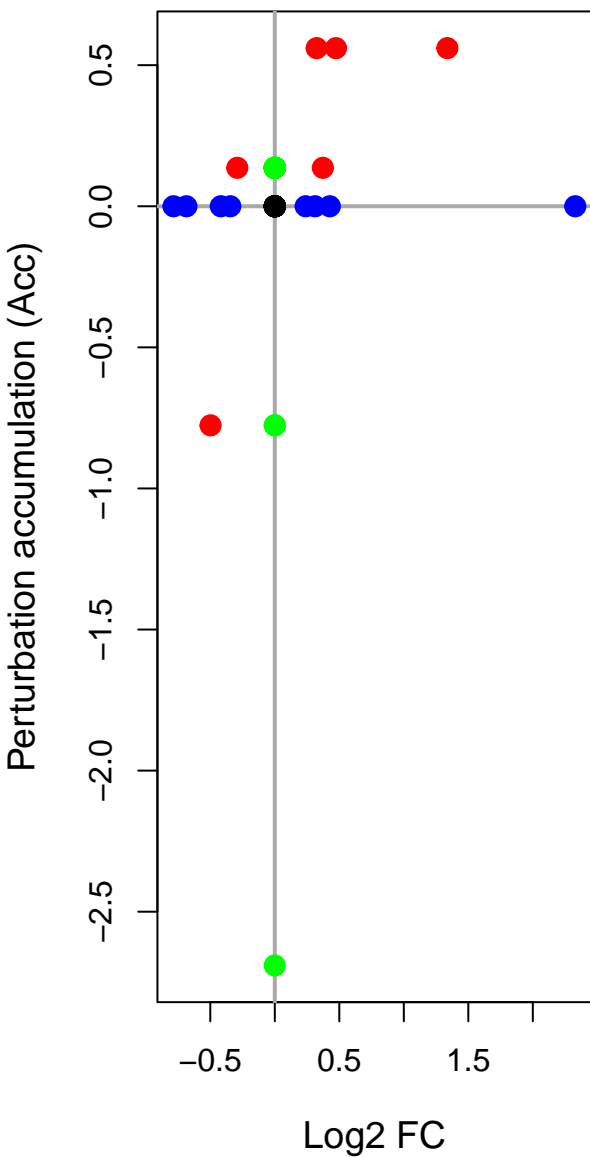
pathway ID=04330



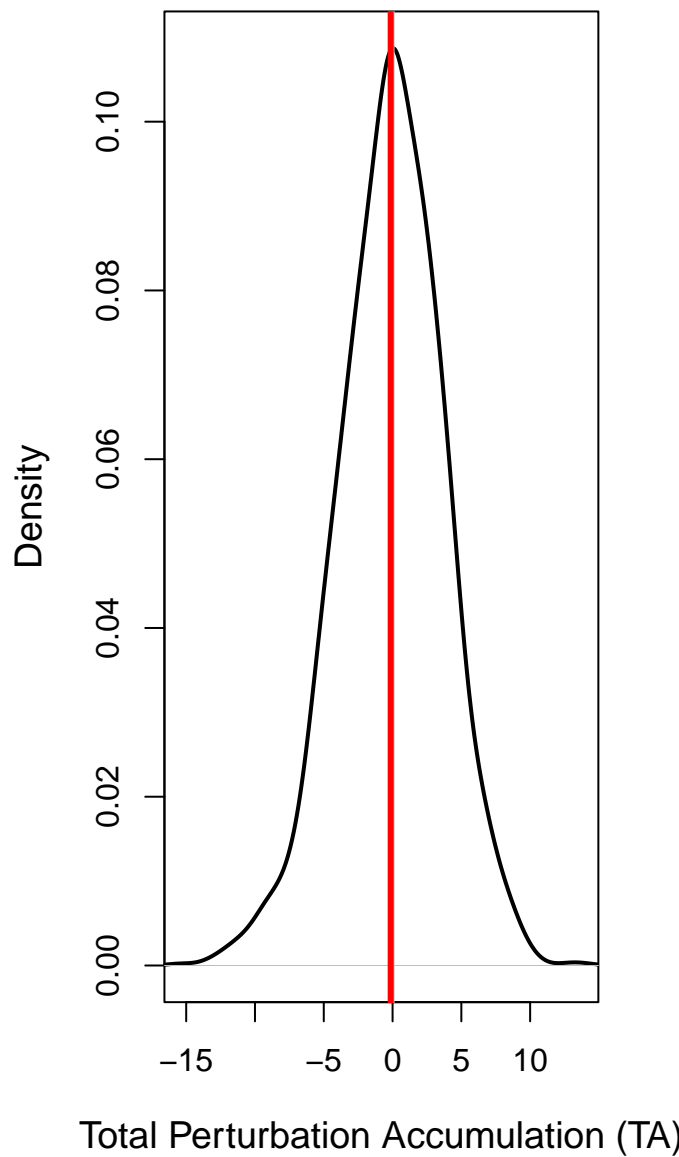
pathway ID=04330 P PERT=0.687



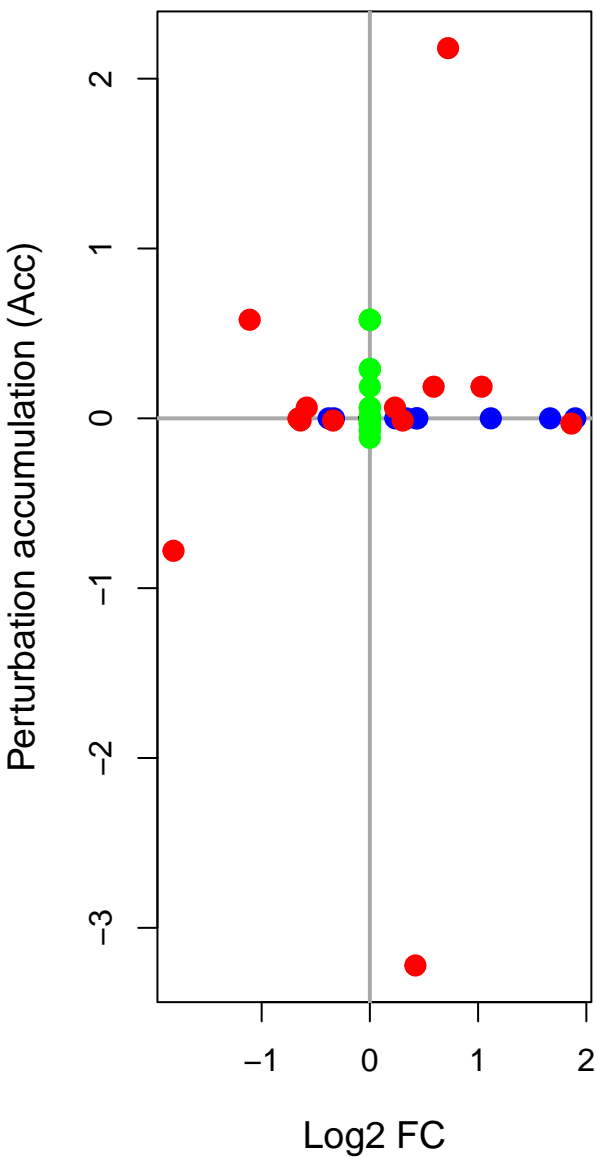
pathway ID=04340



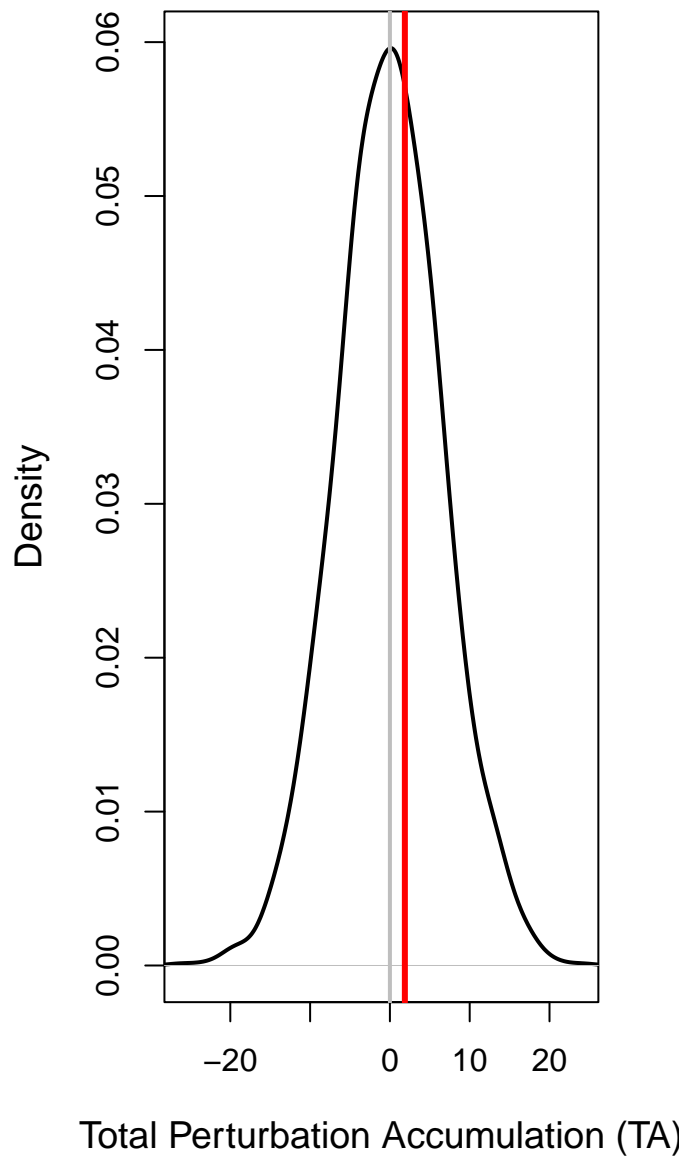
pathway ID=04340 P PERT=0.961



pathway ID=04350



pathway ID=04350 P PERT=0.764

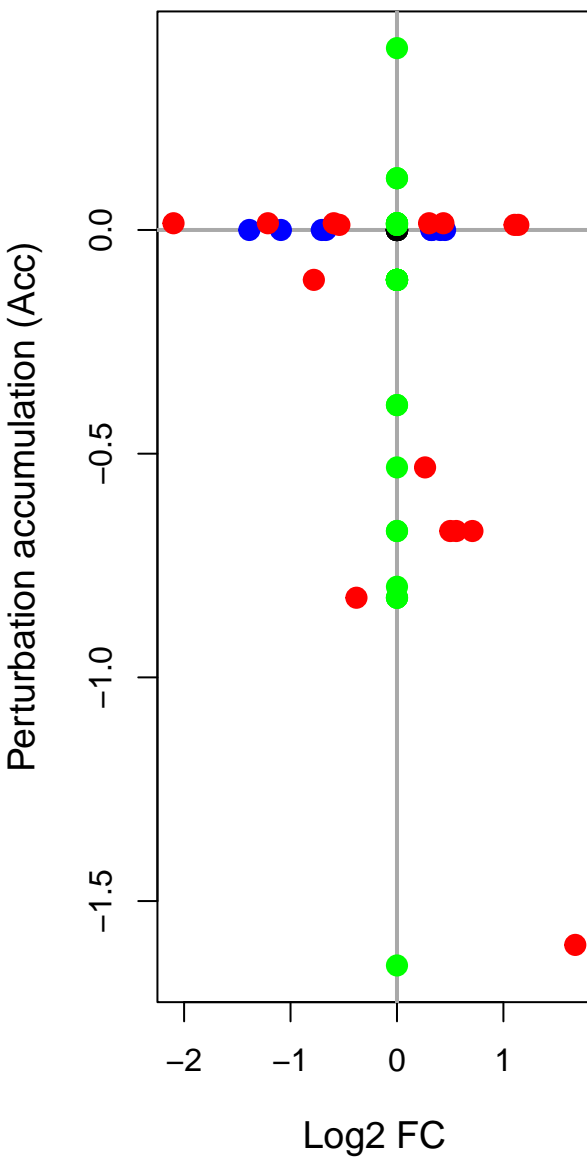


A scatter plot showing two classes of data points (red and blue) in a 2D space. The x-axis ranges from -2 to 2, and the y-axis ranges from -2 to 2. A vertical gray line at $x=0$ represents the decision boundary. Red points are scattered across the plot, while blue points are clustered along the $x=0$ line and the $y=0$ line.

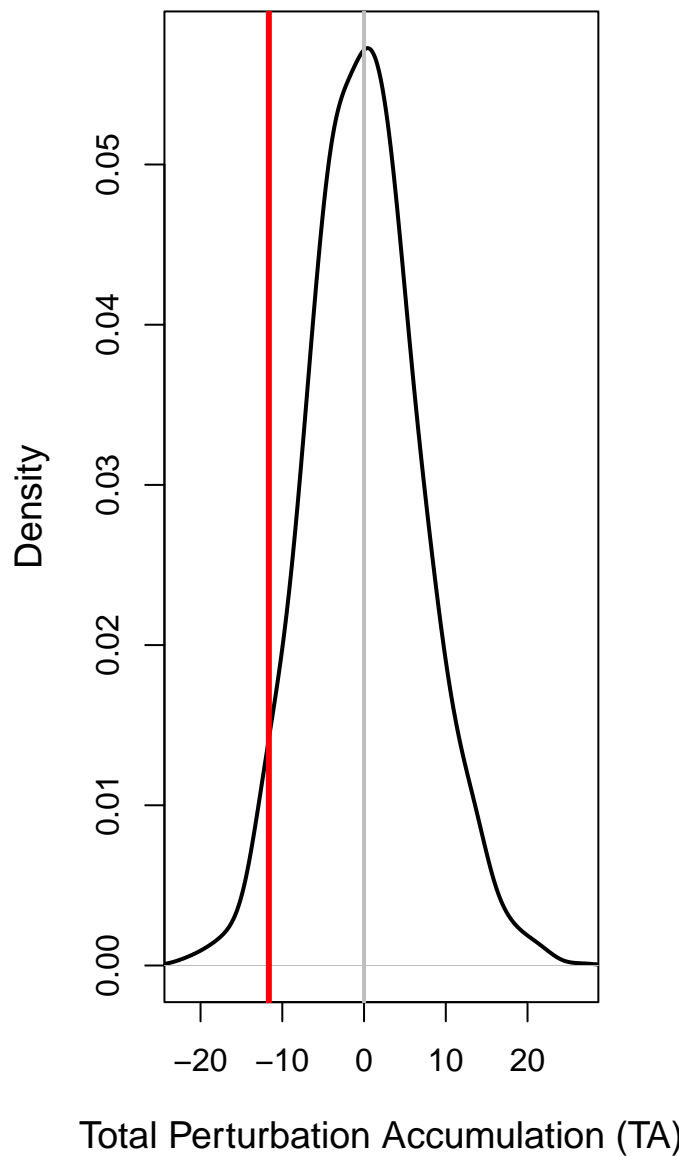
A density plot of a normal distribution. The x-axis ranges from -30 to 30 with major ticks every 10 units. The y-axis, labeled 'Density', ranges from 0.00 to 0.04 with major ticks every 0.01 units. A black curve represents the probability density function, centered at 0. A vertical grey line is drawn at x = 0, and a vertical red line is drawn at x = 12.

Total Perturbation Accumulation (TA)

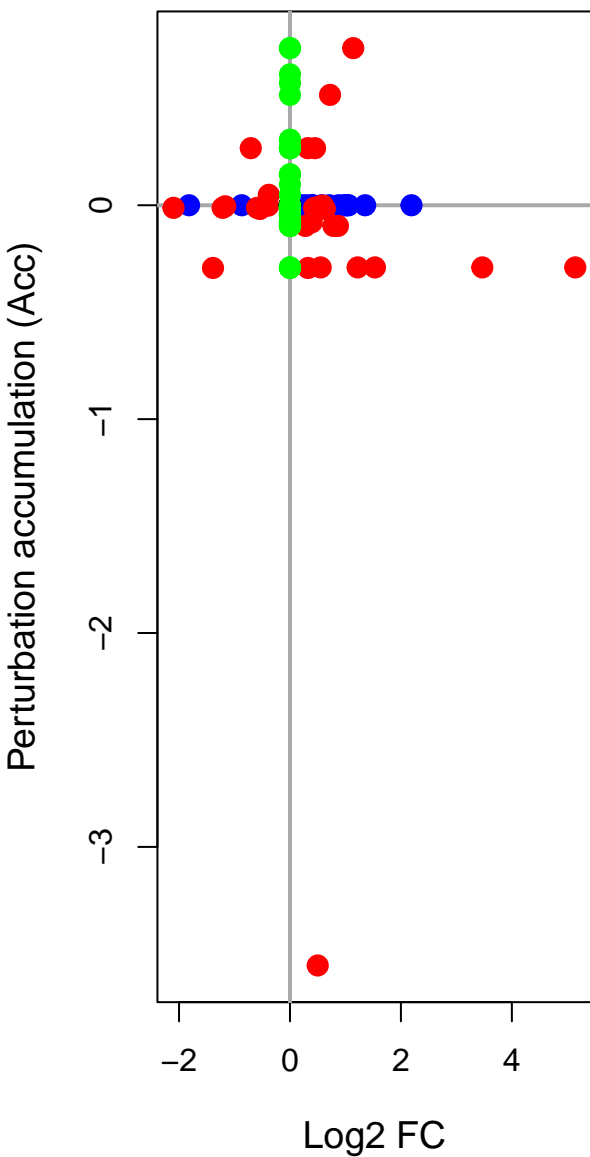
pathway ID=04370



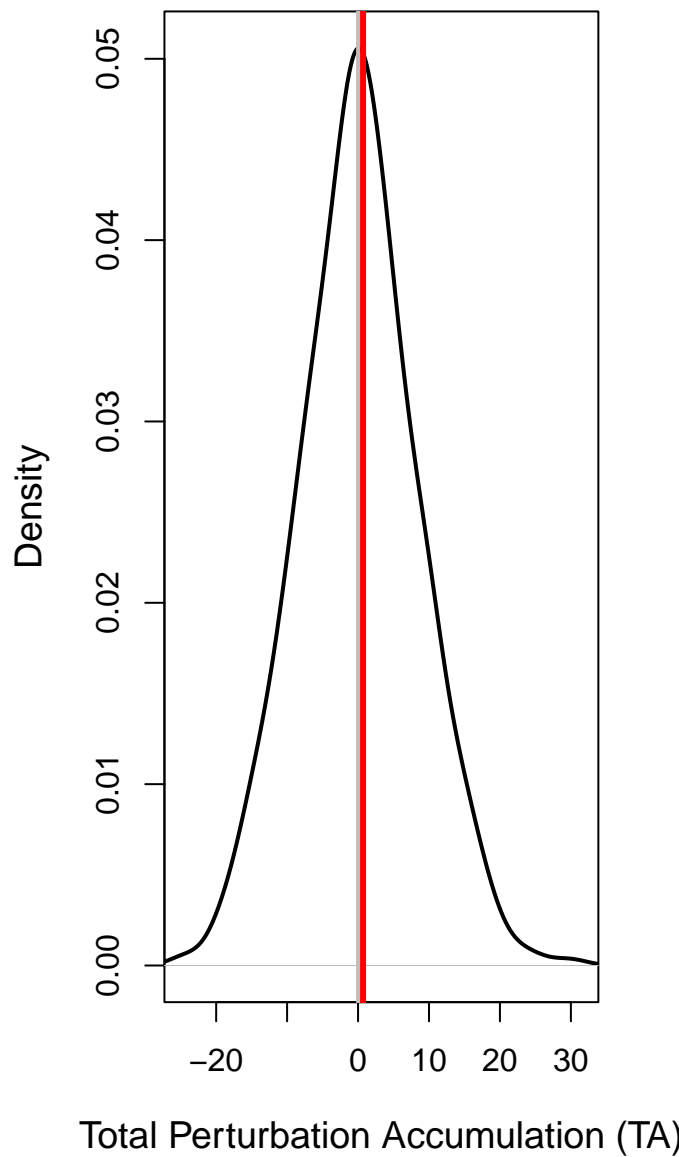
pathway ID=04370 P PERT=0.079



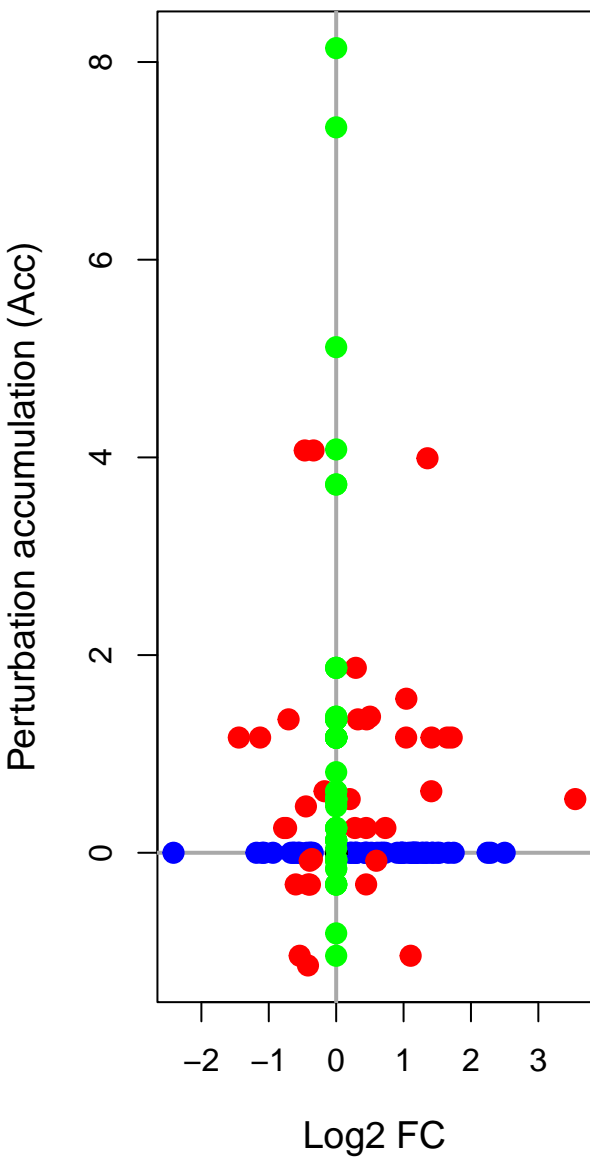
pathway ID=04380



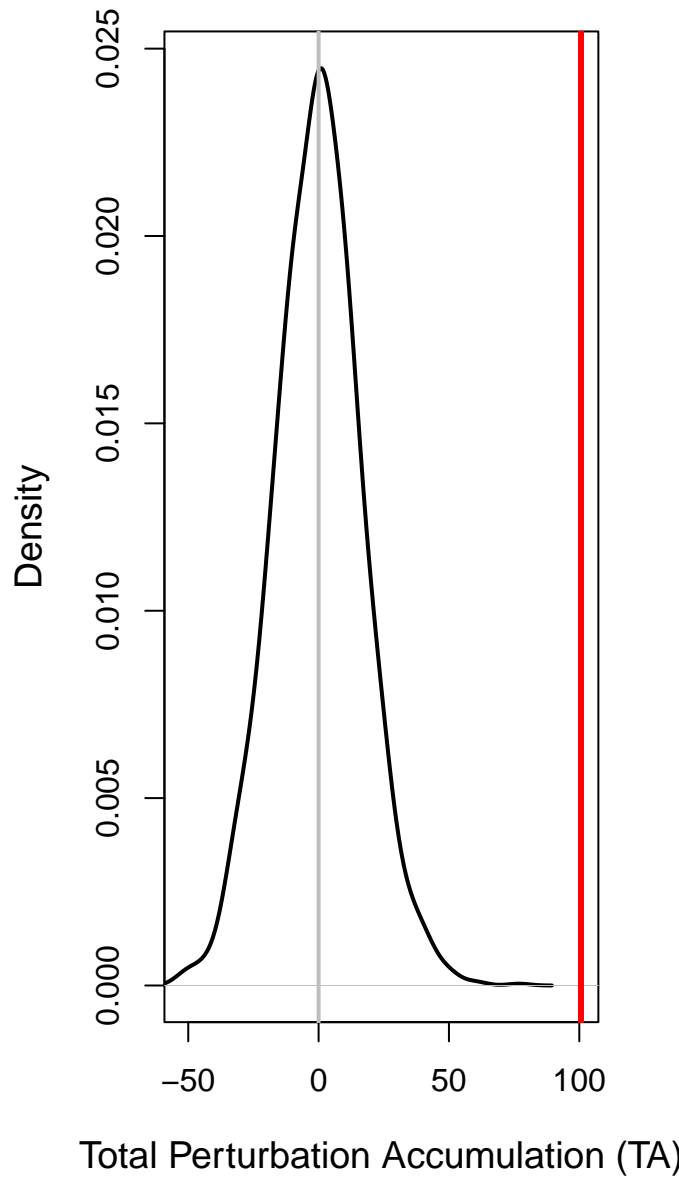
pathway ID=04380 P PERT=0.923



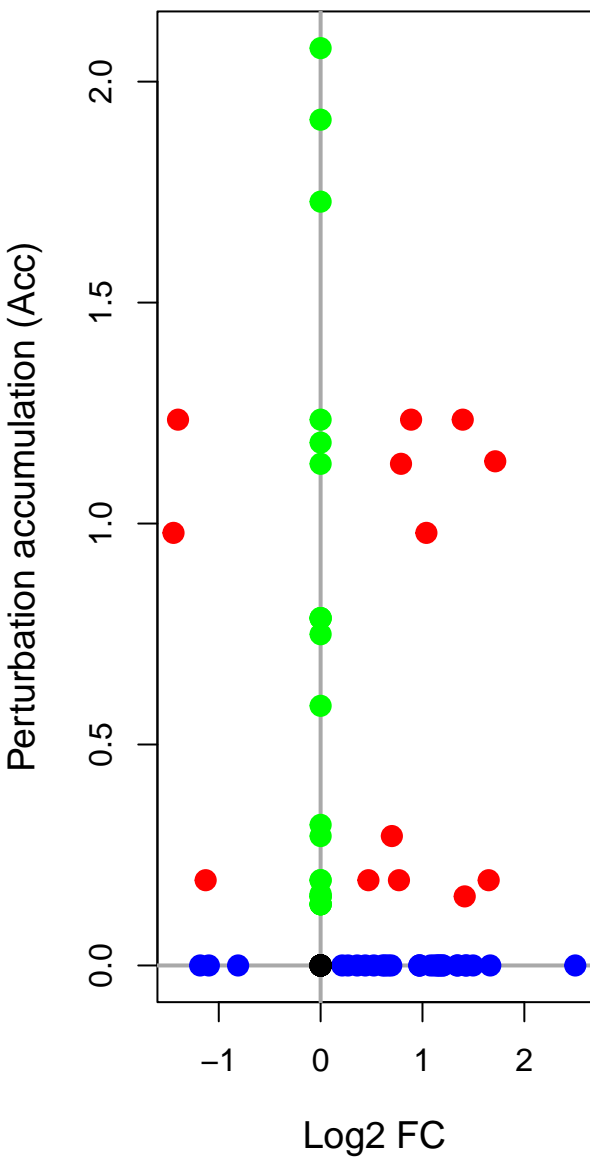
pathway ID=04510



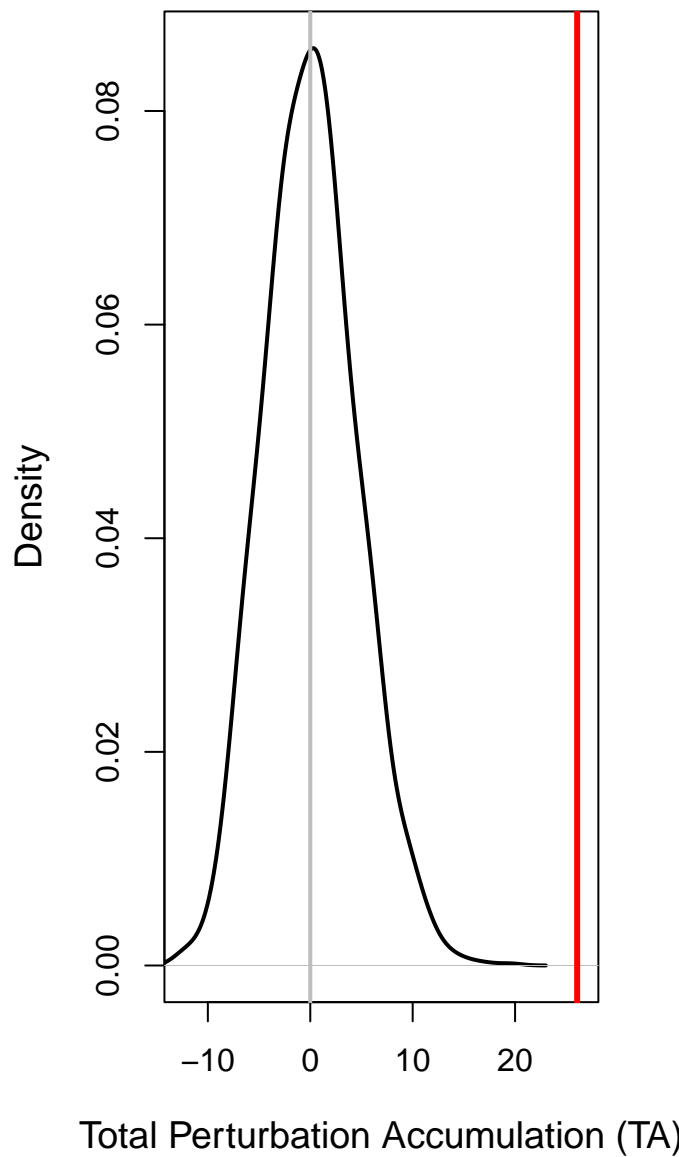
pathway ID=04510 P PERT=0



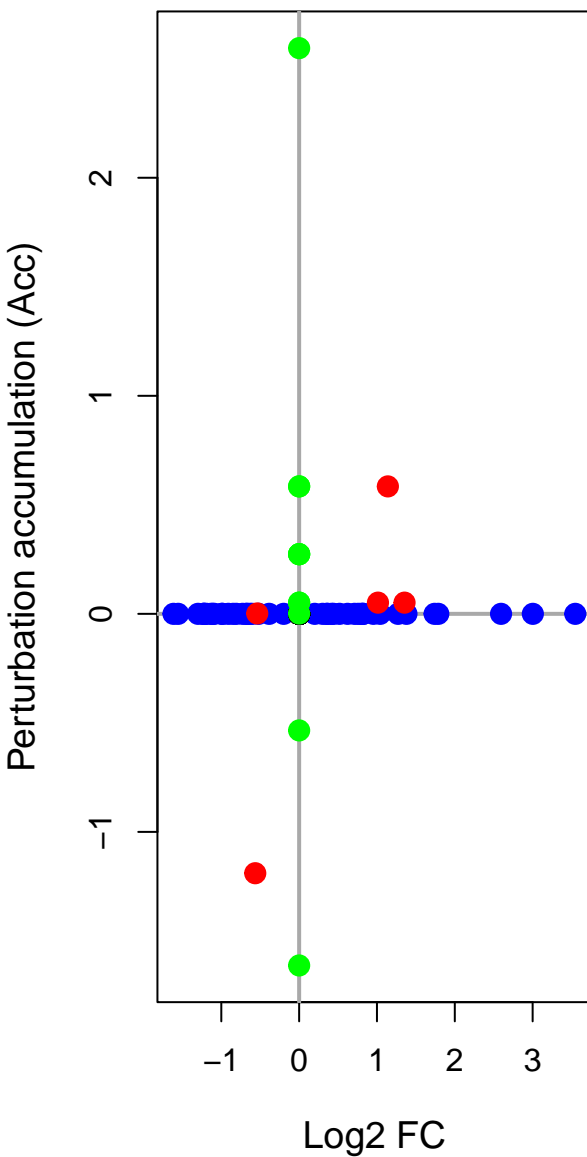
pathway ID=04512



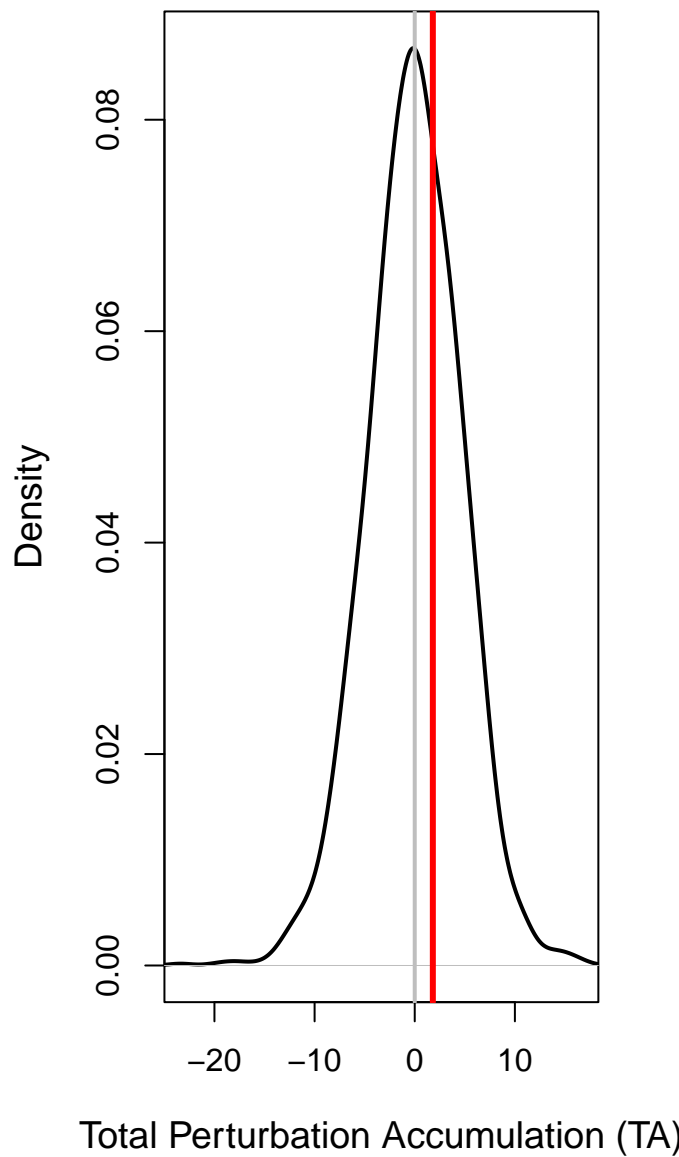
pathway ID=04512 P PERT=0



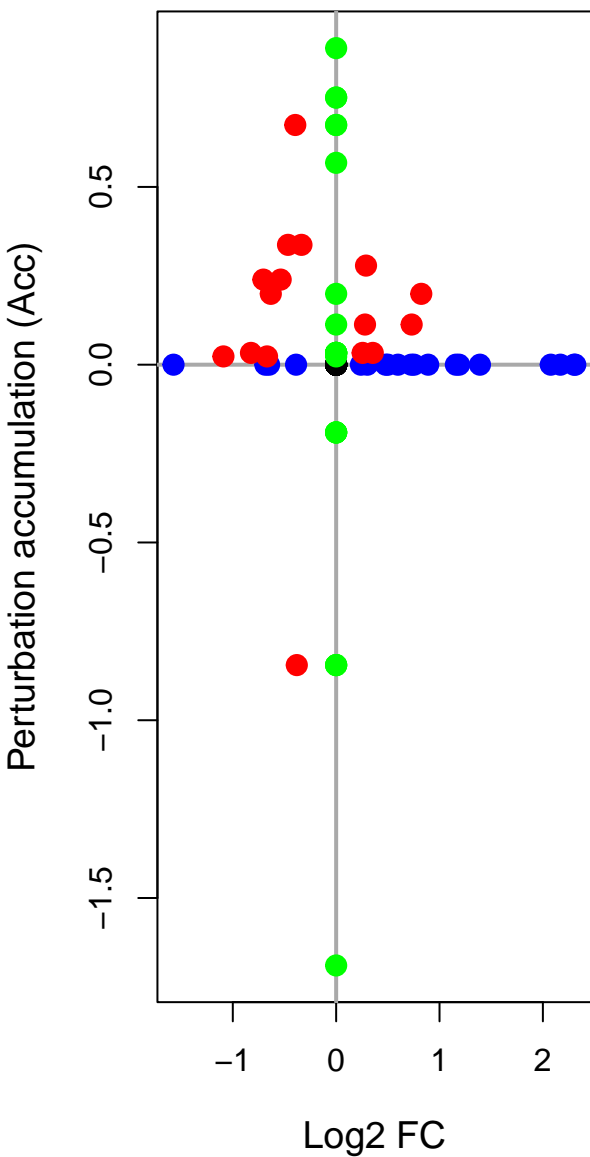
pathway ID=04530



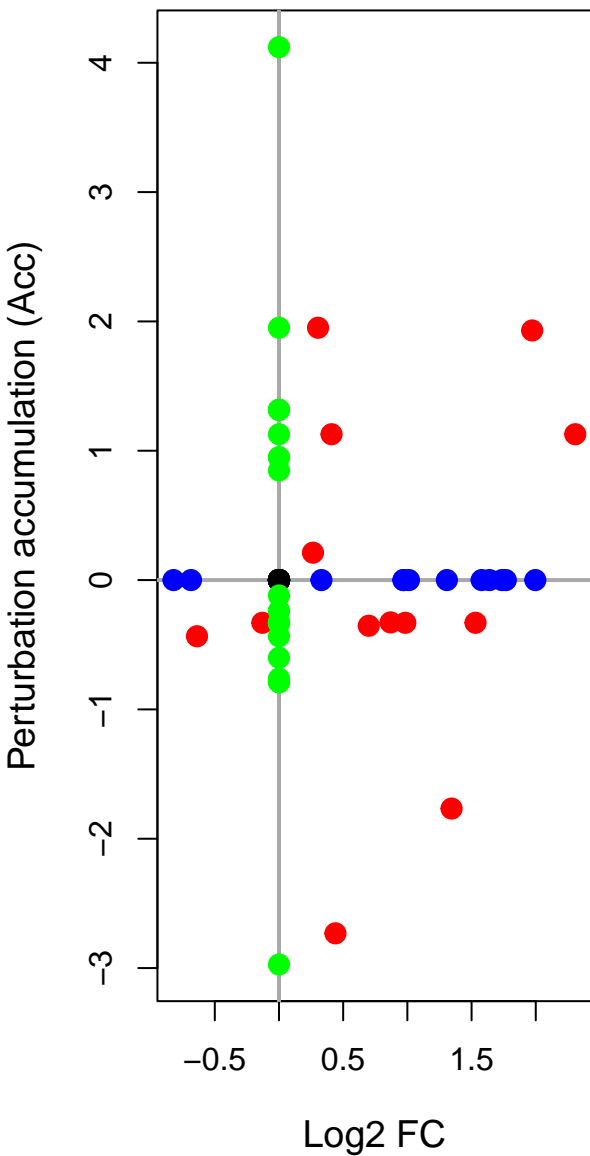
pathway ID=04530 P PERT=0.692



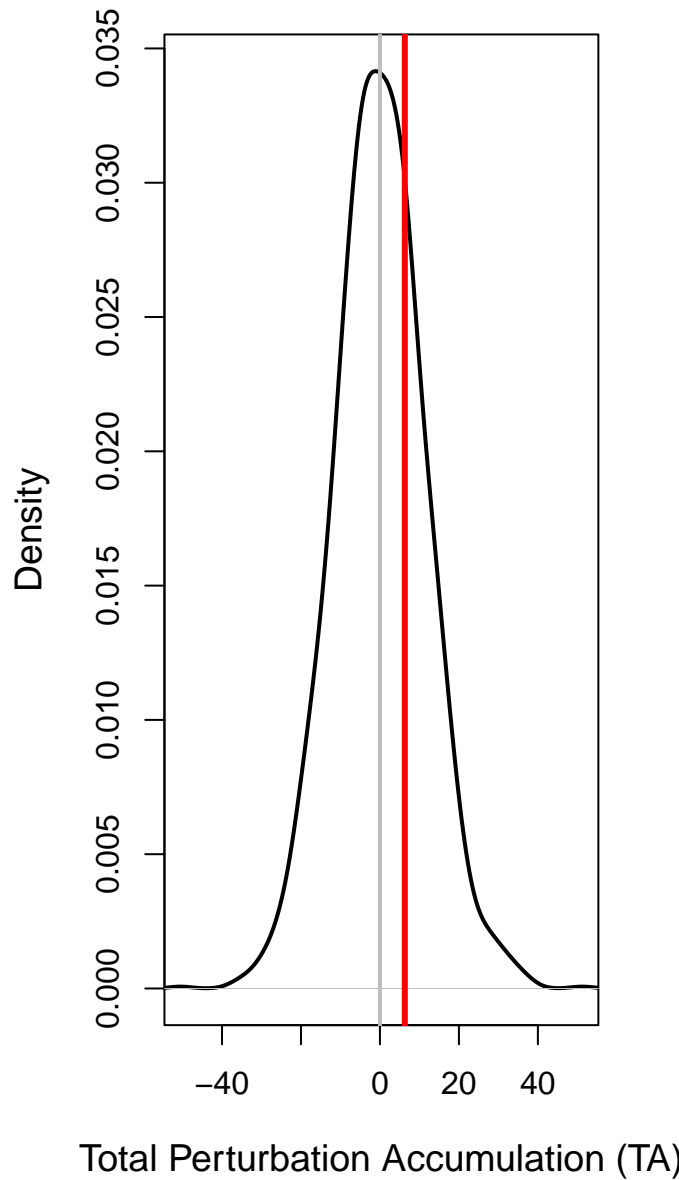
pathway ID=04540



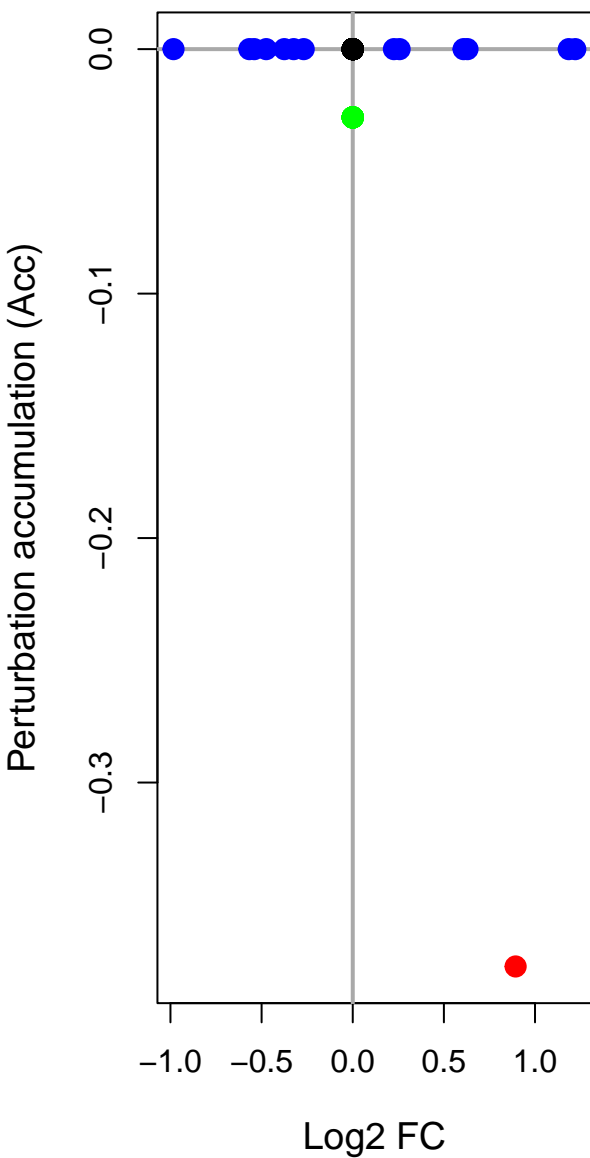
pathway ID=04610



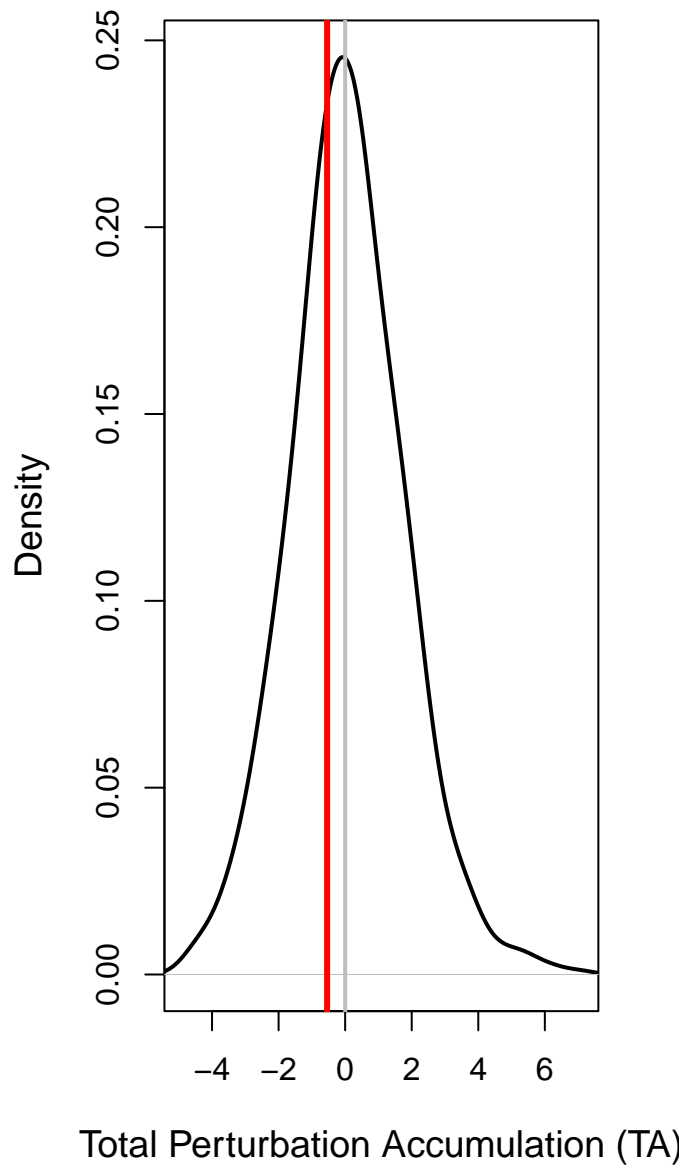
pathway ID=04610 P PERT=0.577



pathway ID=04612



pathway ID=04612 P PERT=0.719

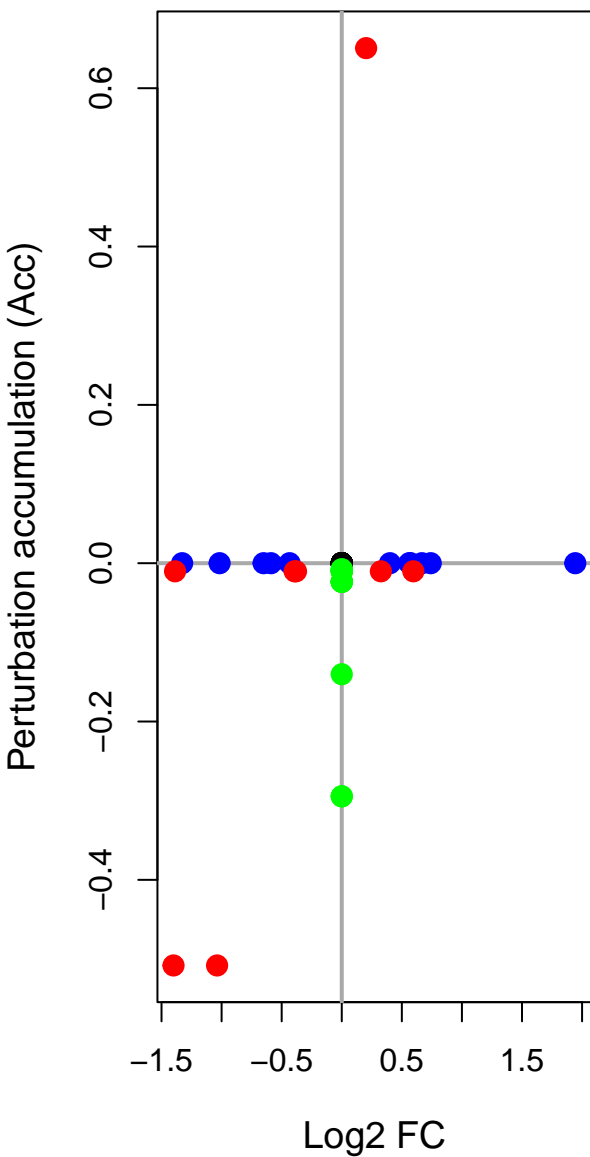


Density

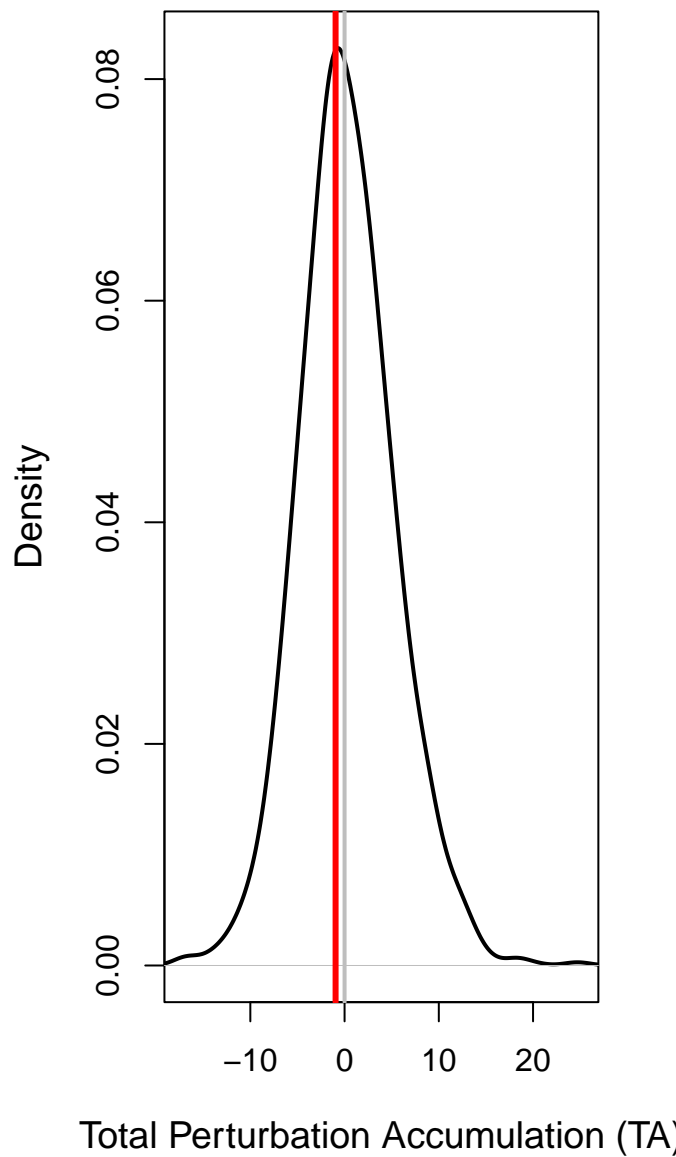
A plot of a normal distribution curve. The x-axis ranges from -30 to 30 with major ticks at -30, -10, 10, and 30. The y-axis ranges from 0.00 to 0.05 with major ticks at 0.00, 0.01, 0.02, 0.03, 0.04, and 0.05. A vertical red line is drawn at x = 0, and a horizontal grey line is drawn at y = 0.00. The curve is a black line that peaks at x = 0 with a height of approximately 0.052.

Total Perturbation Accumulation (TA)

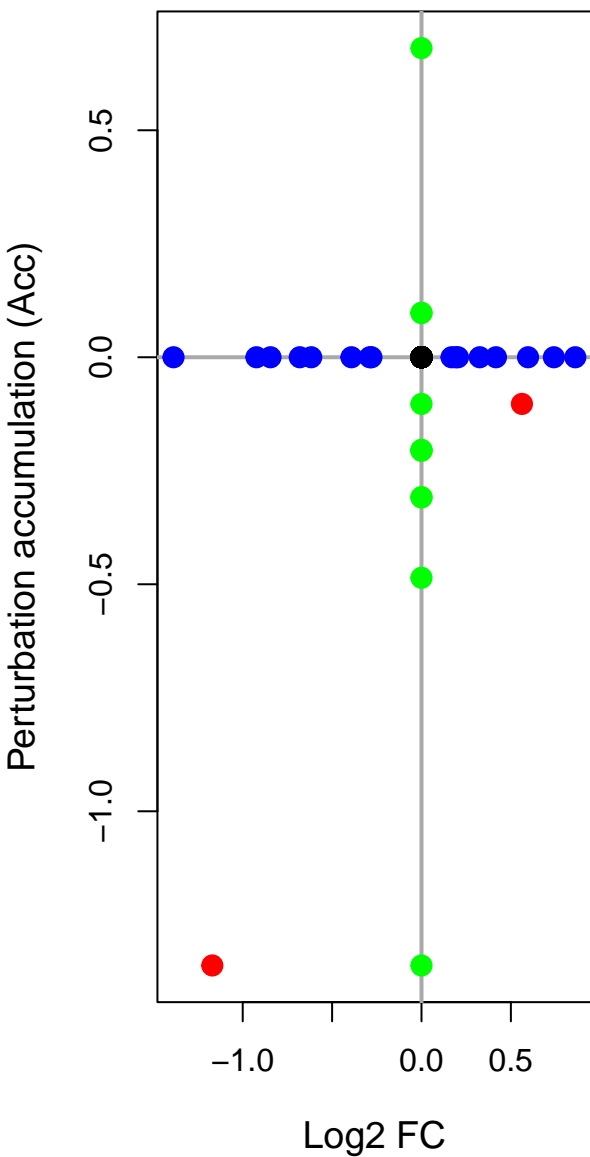
pathway ID=04621



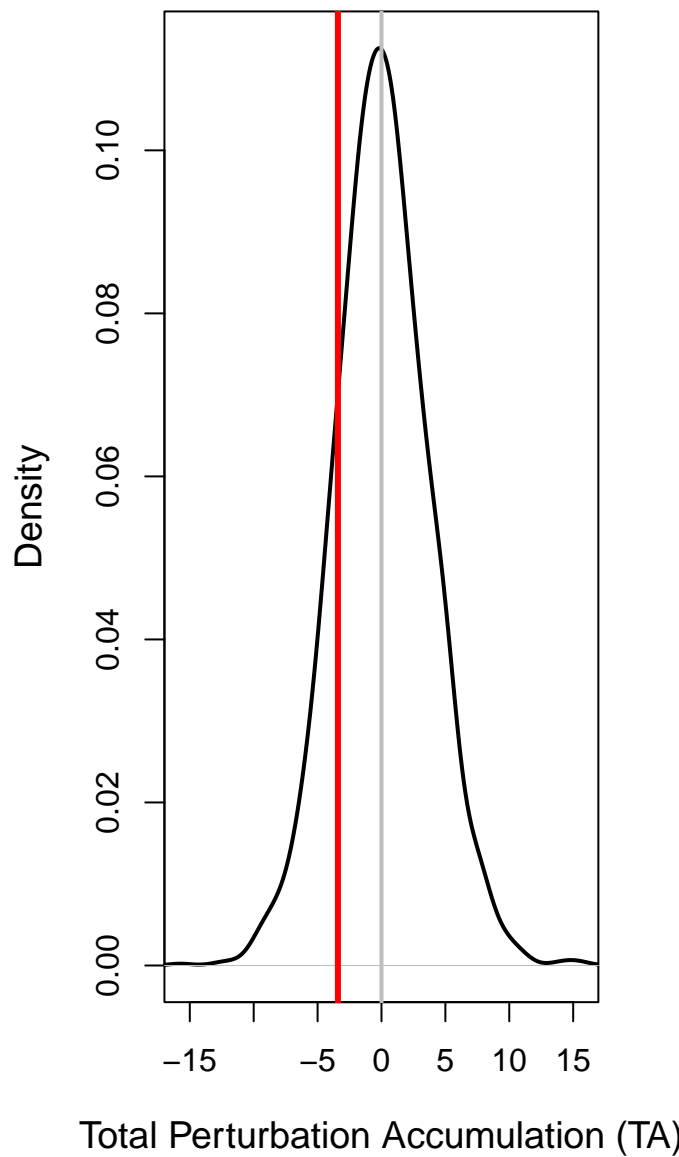
pathway ID=04621 P PERT=0.836



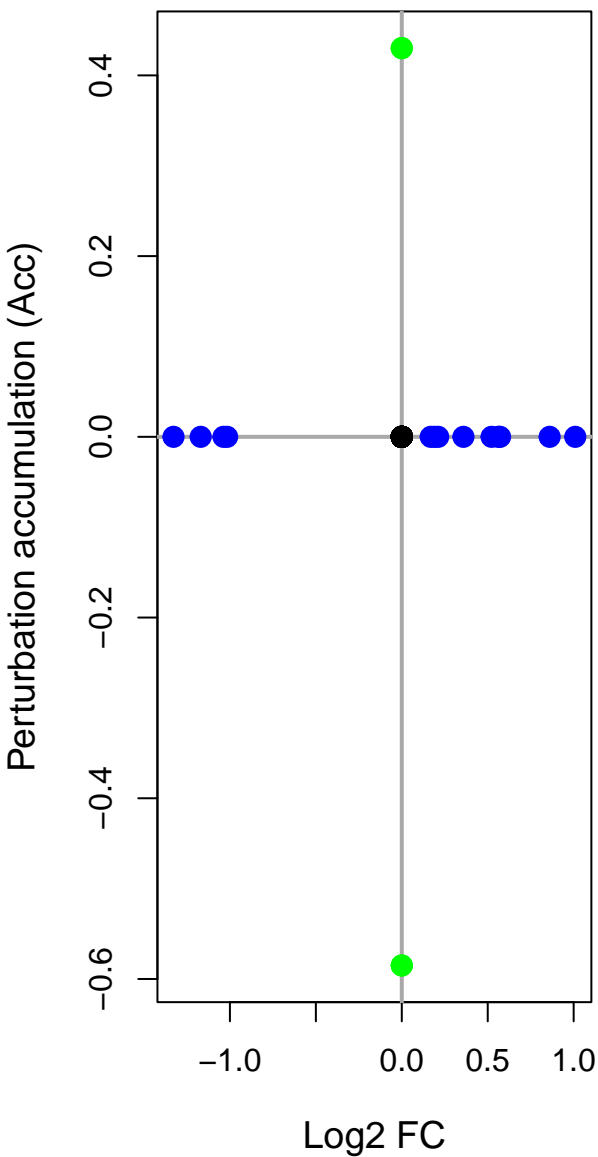
pathway ID=04622



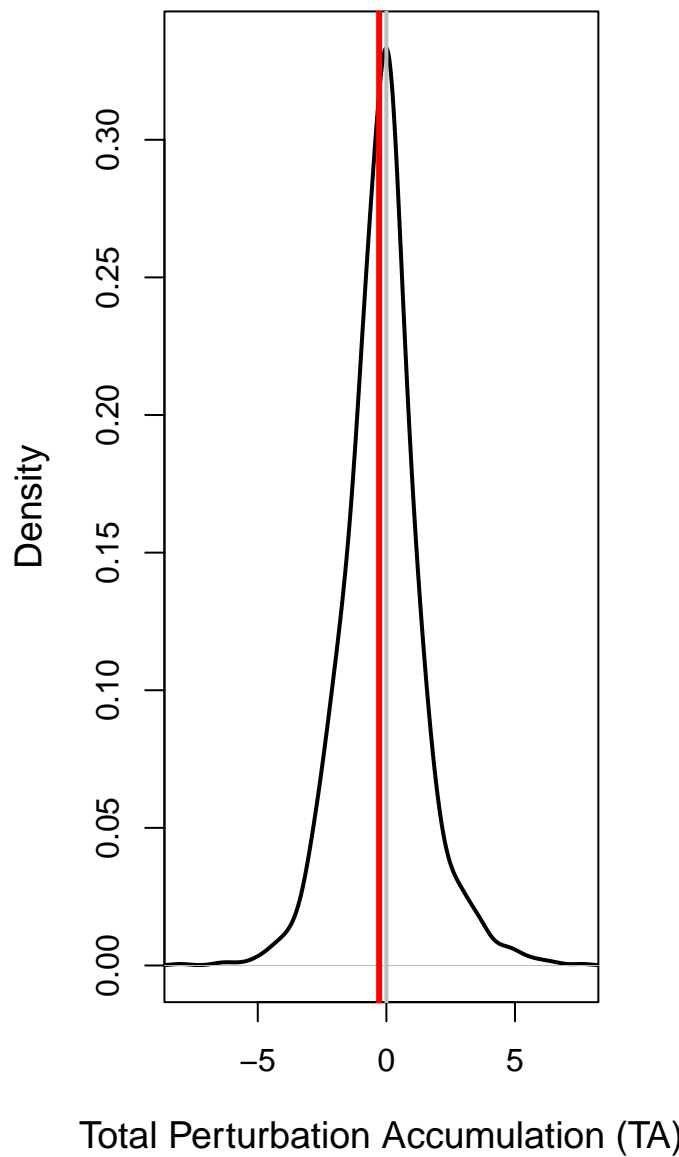
pathway ID=04622 P PERT=0.326



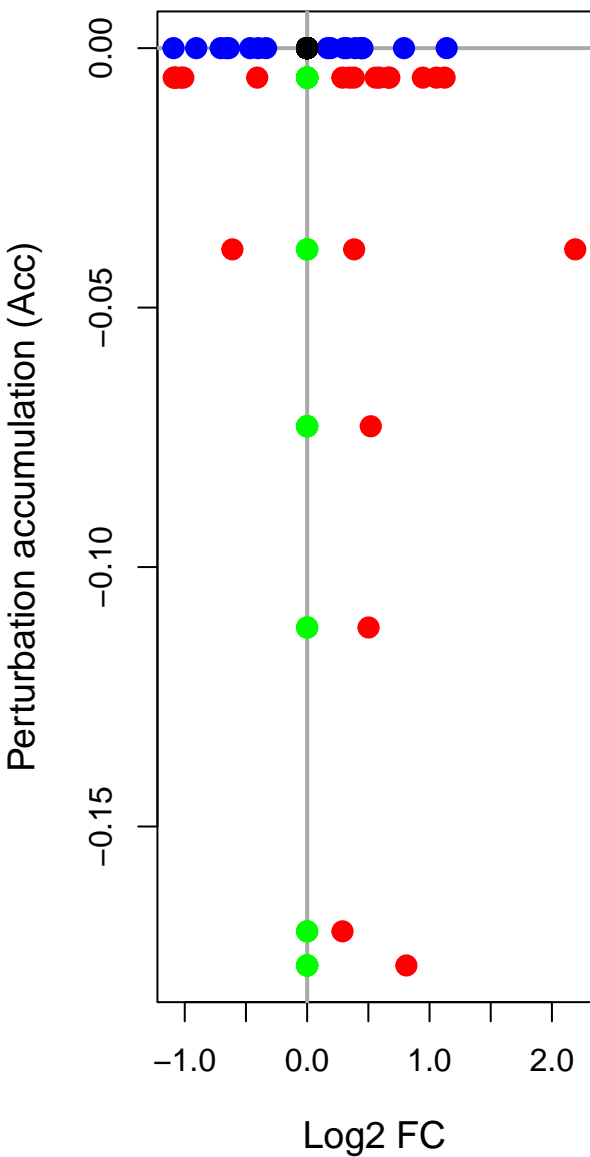
pathway ID=04623



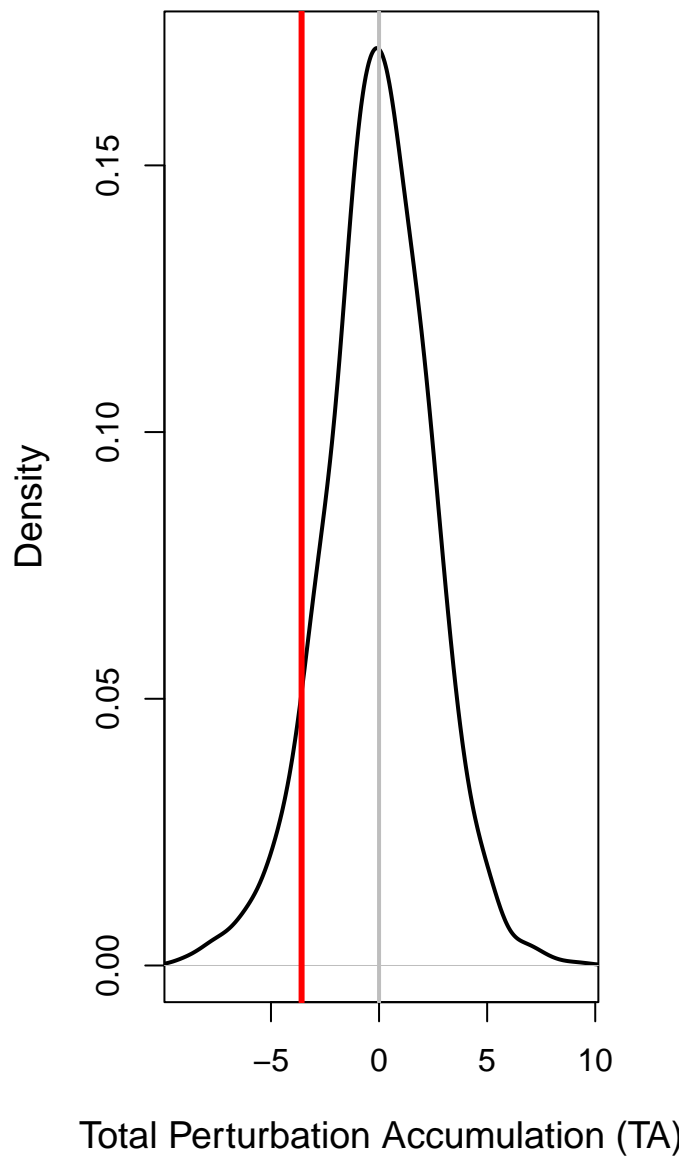
pathway ID=04623 P PERT=0.901



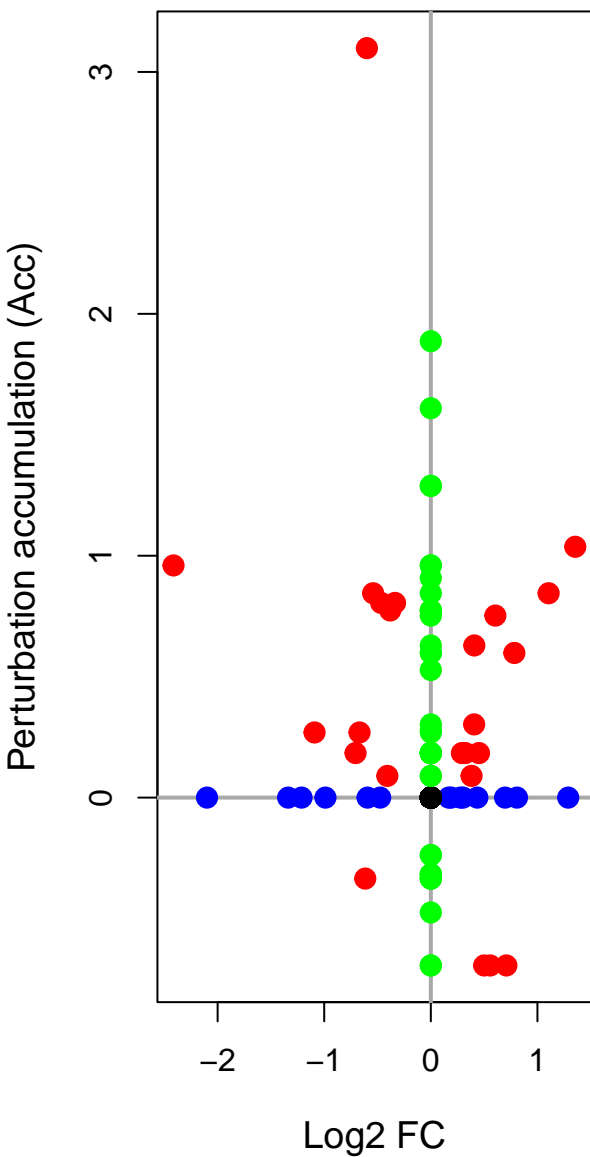
pathway ID=04630



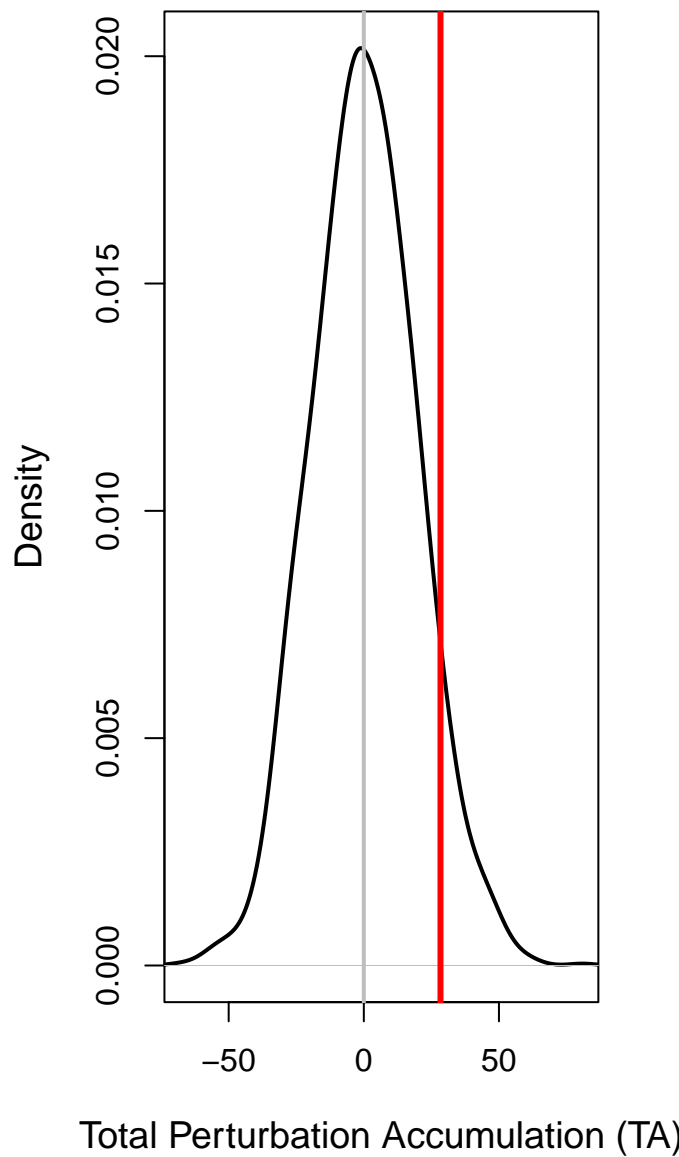
pathway ID=04630 P PERT=0.151



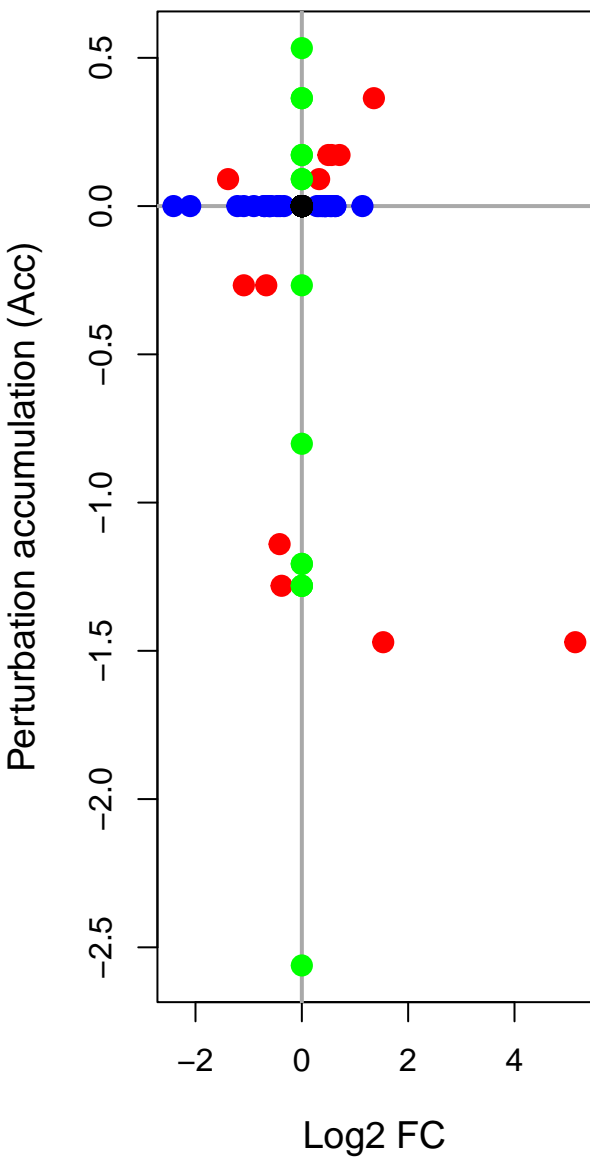
pathway ID=04650



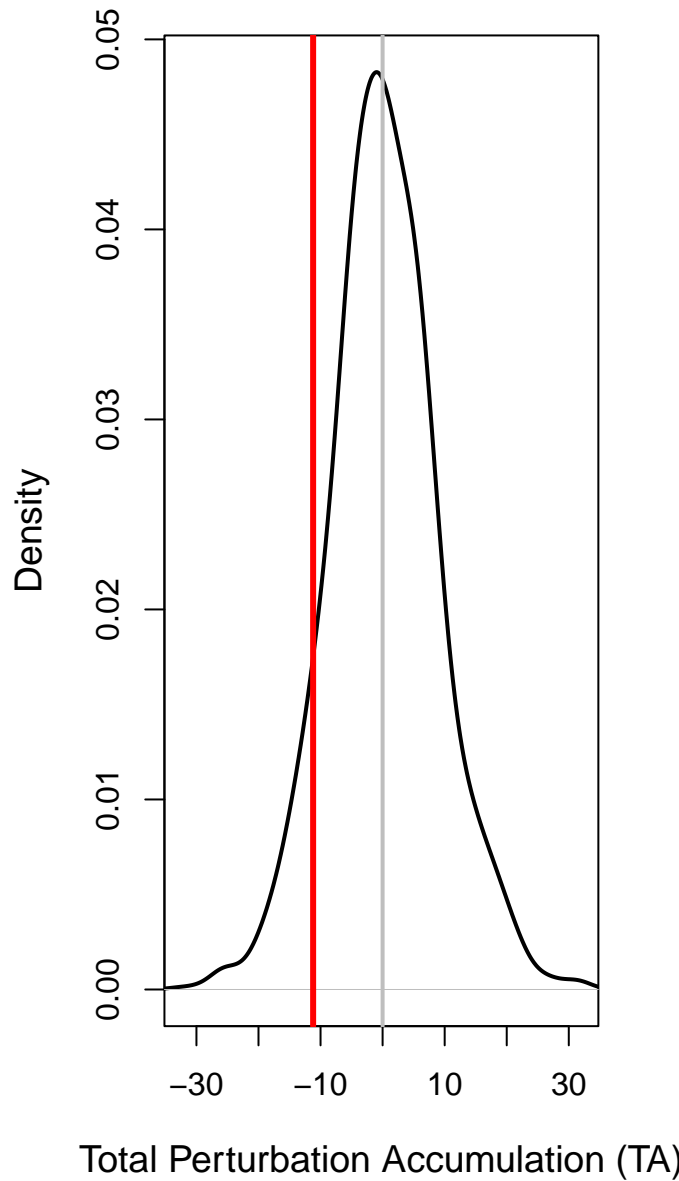
pathway ID=04650 P PERT=0.15



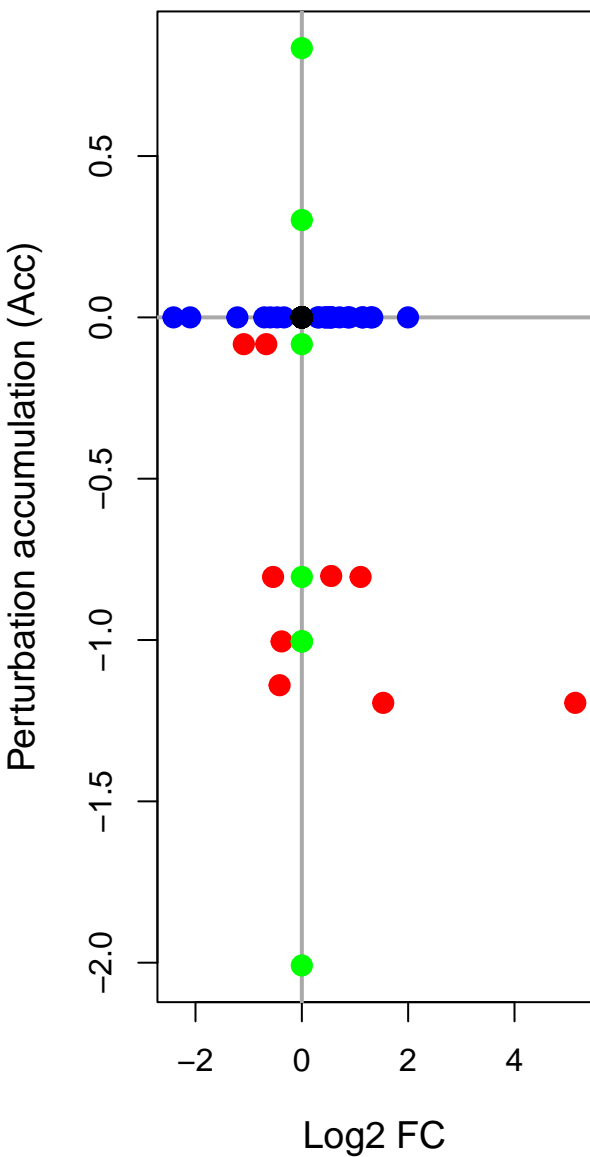
pathway ID=04660



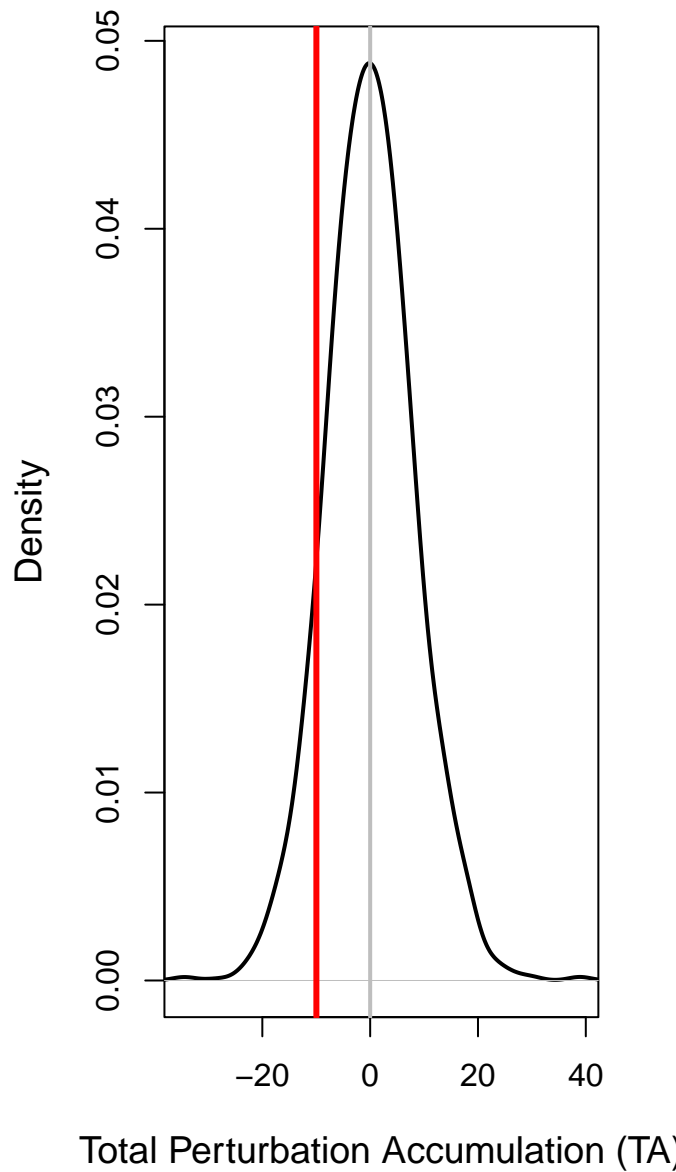
pathway ID=04660 P PERT=0.175



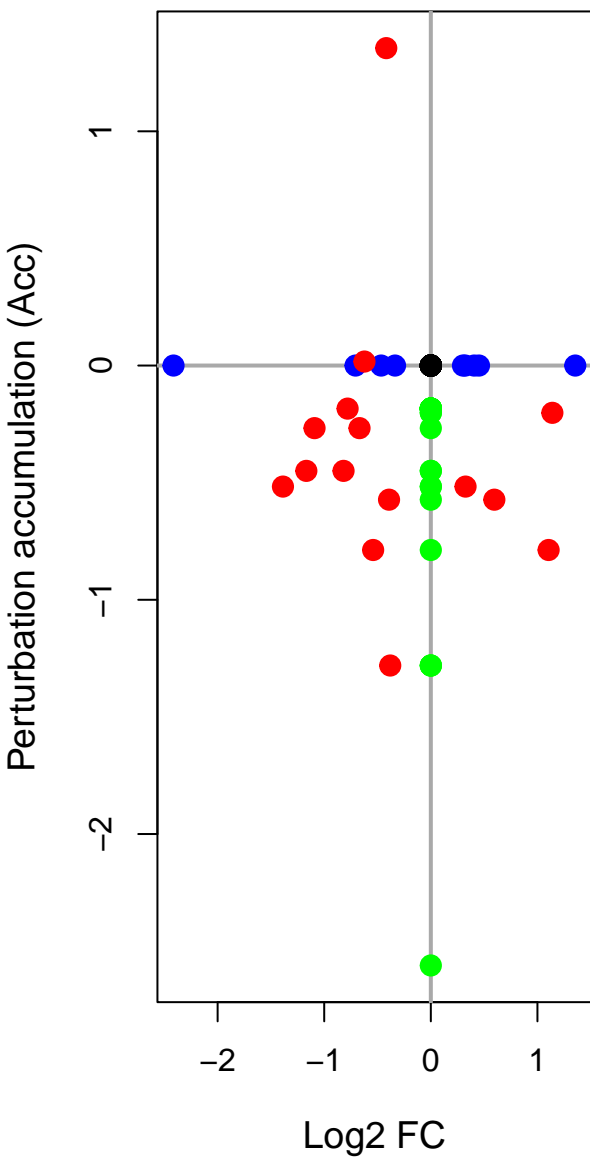
pathway ID=04662



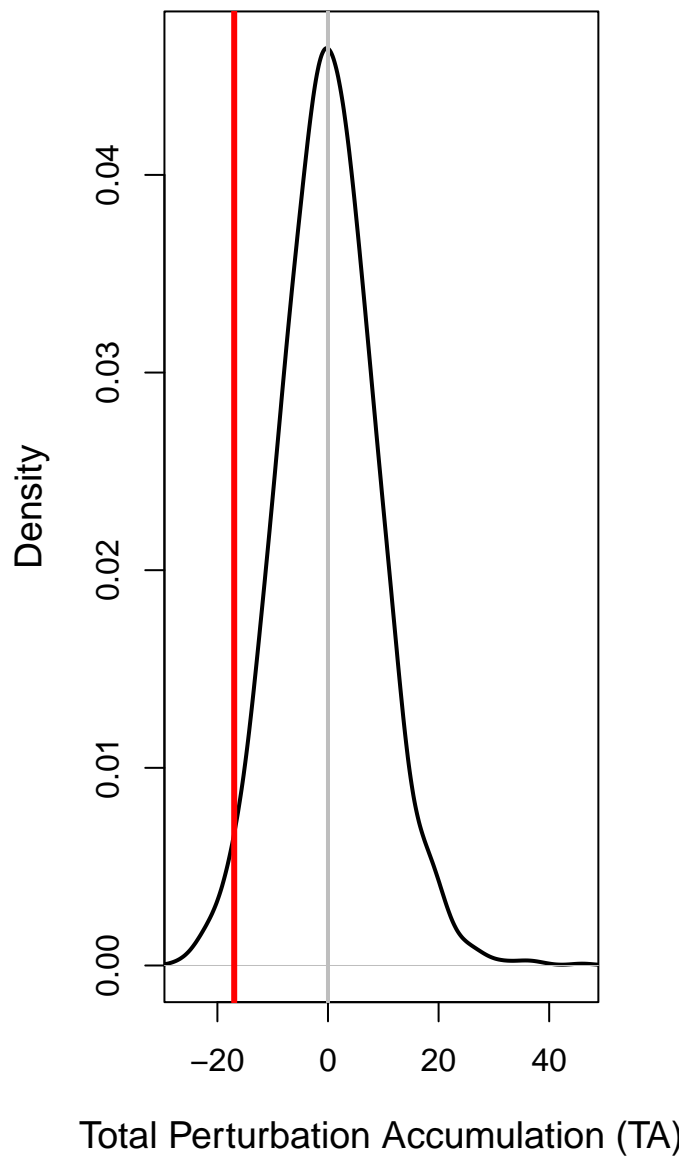
pathway ID=04662 P PERT=0.207



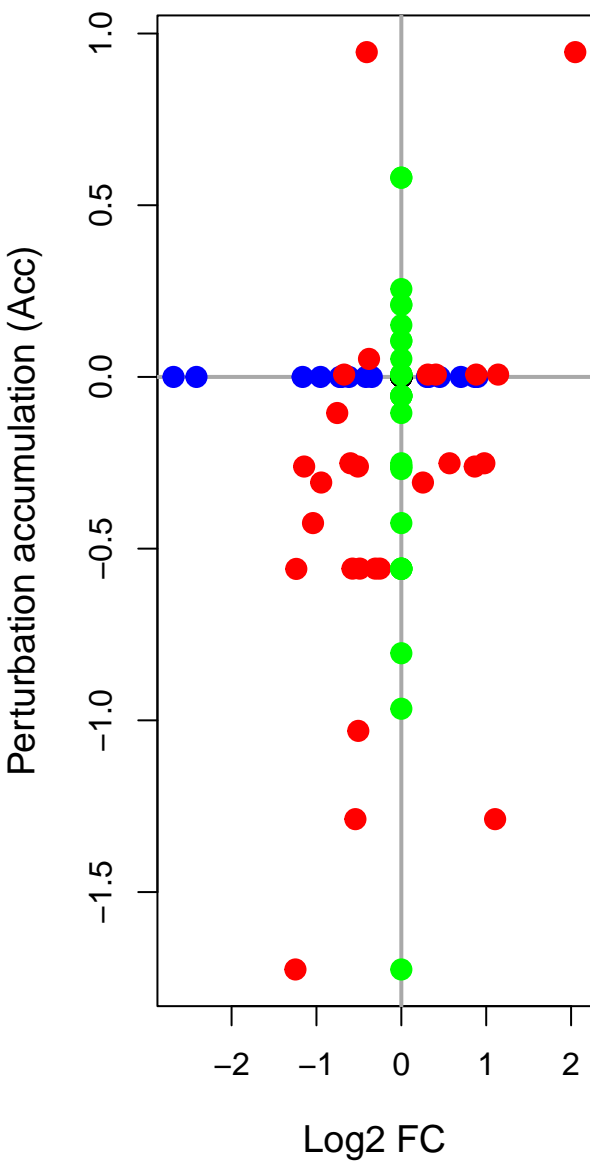
pathway ID=04664



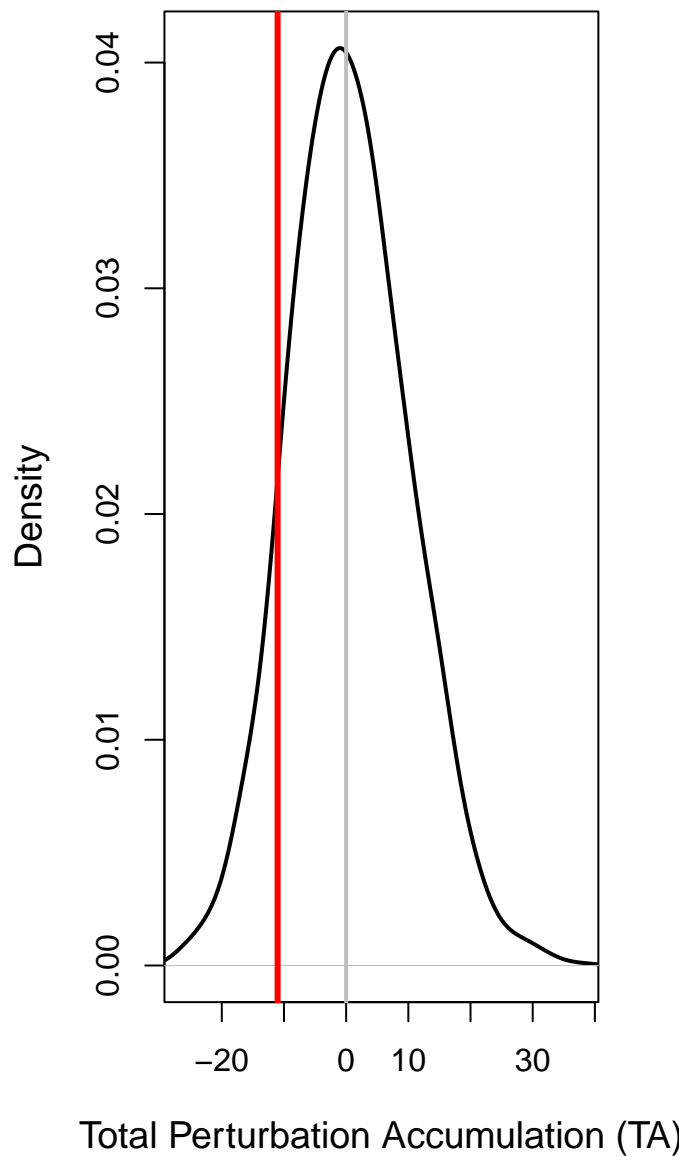
pathway ID=04664 P PERT=0.044



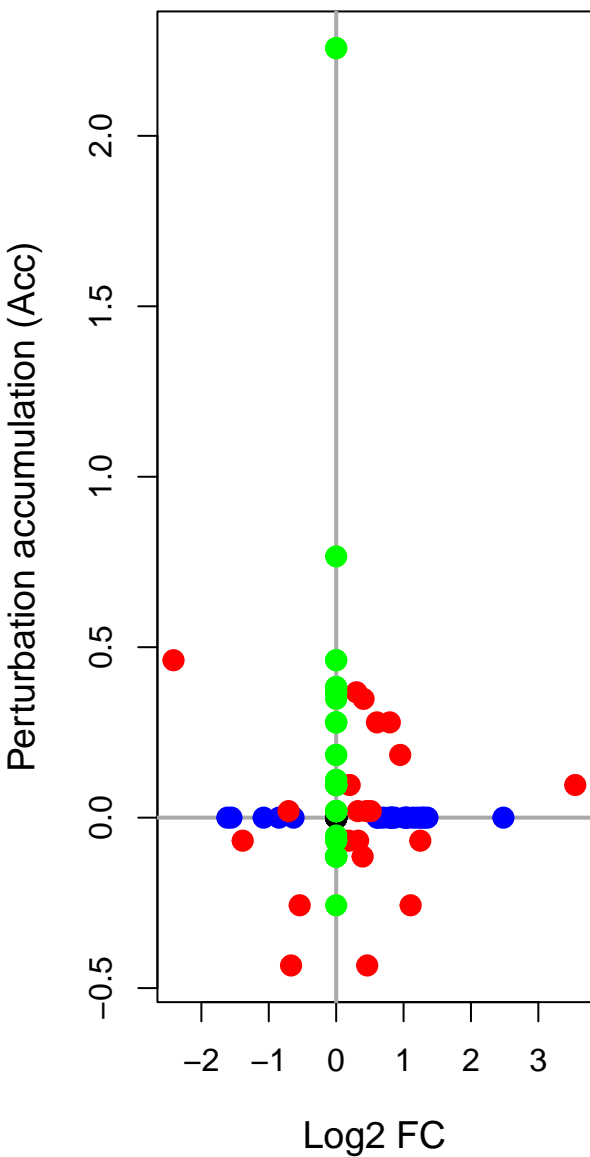
pathway ID=04666



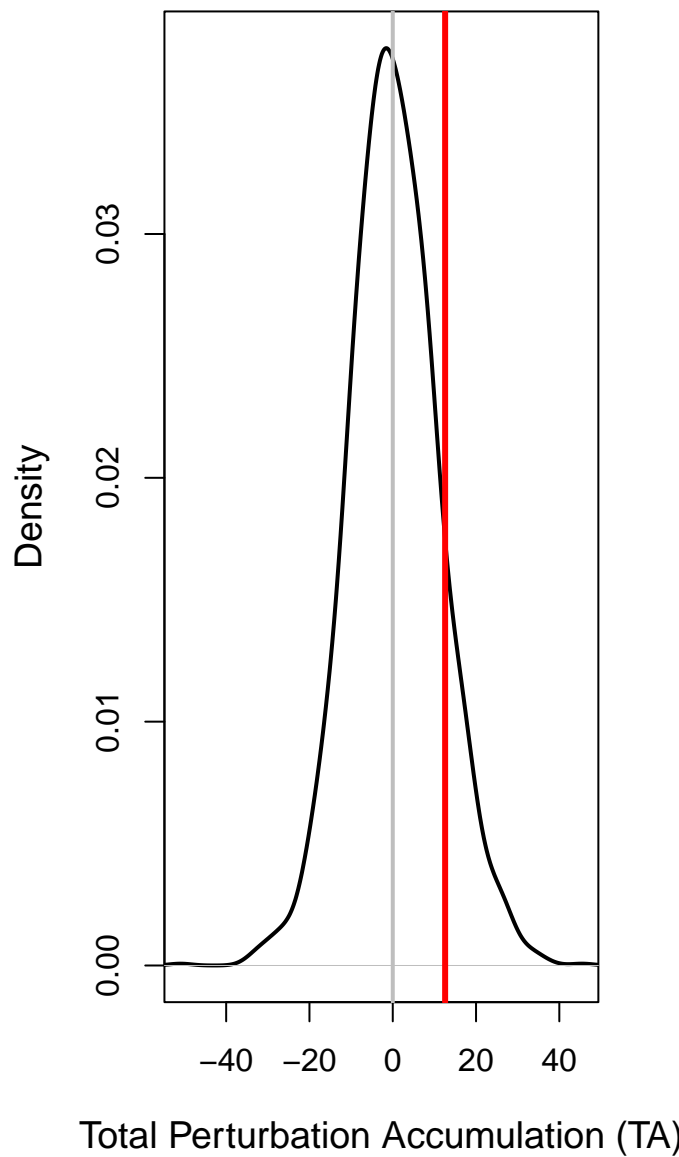
pathway ID=04666 P PERT=0.199



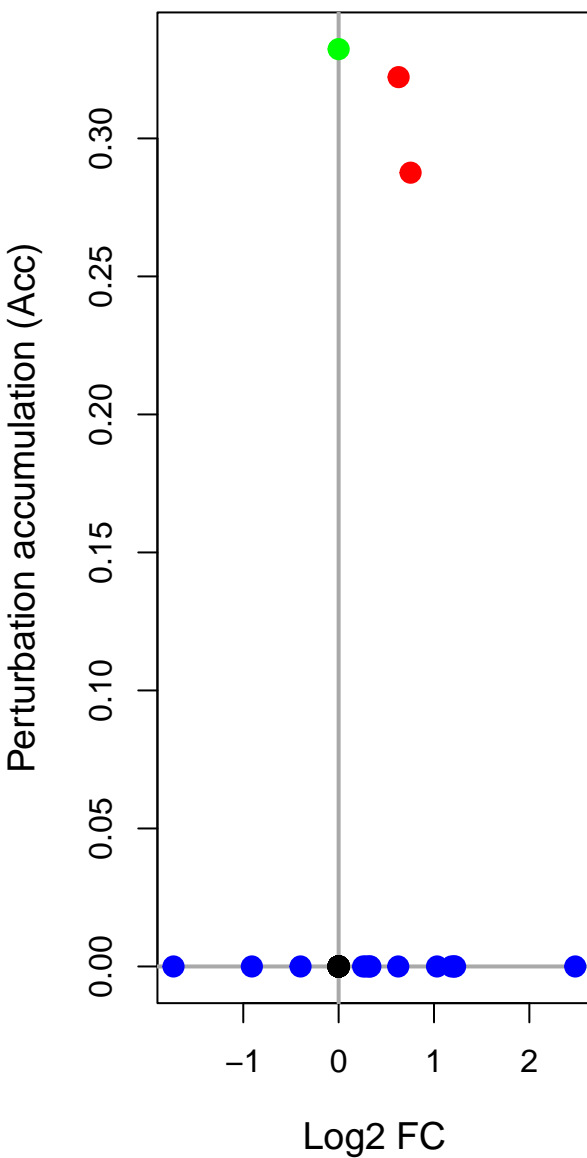
pathway ID=04670



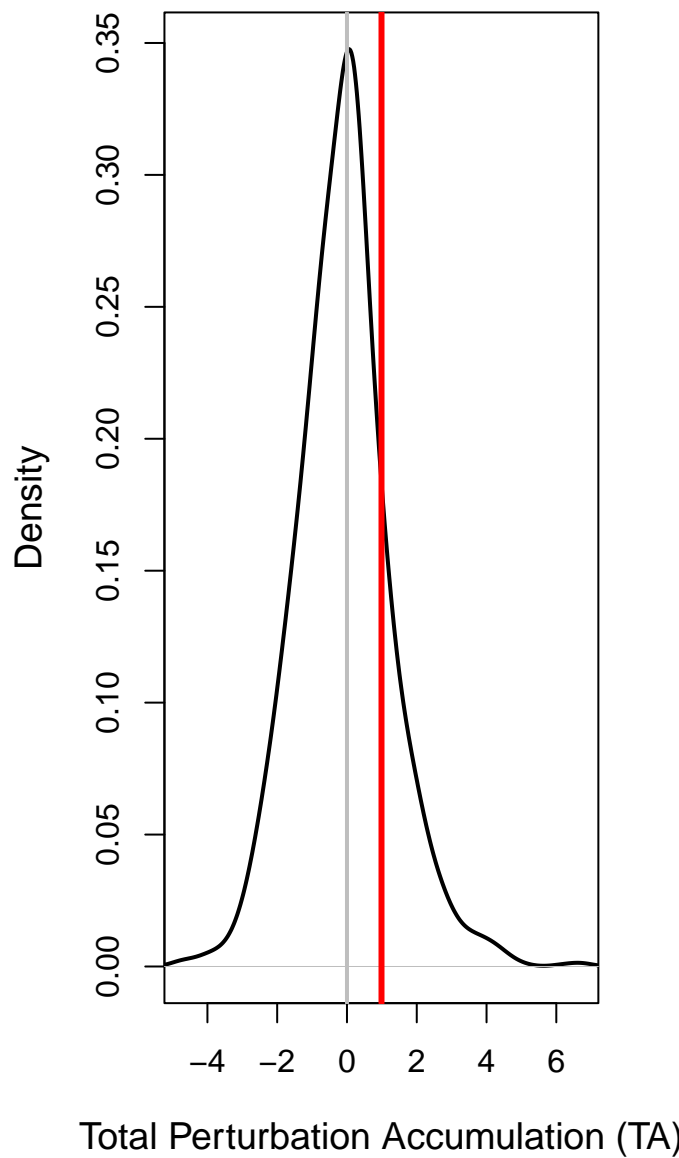
pathway ID=04670 P PERT=0.255



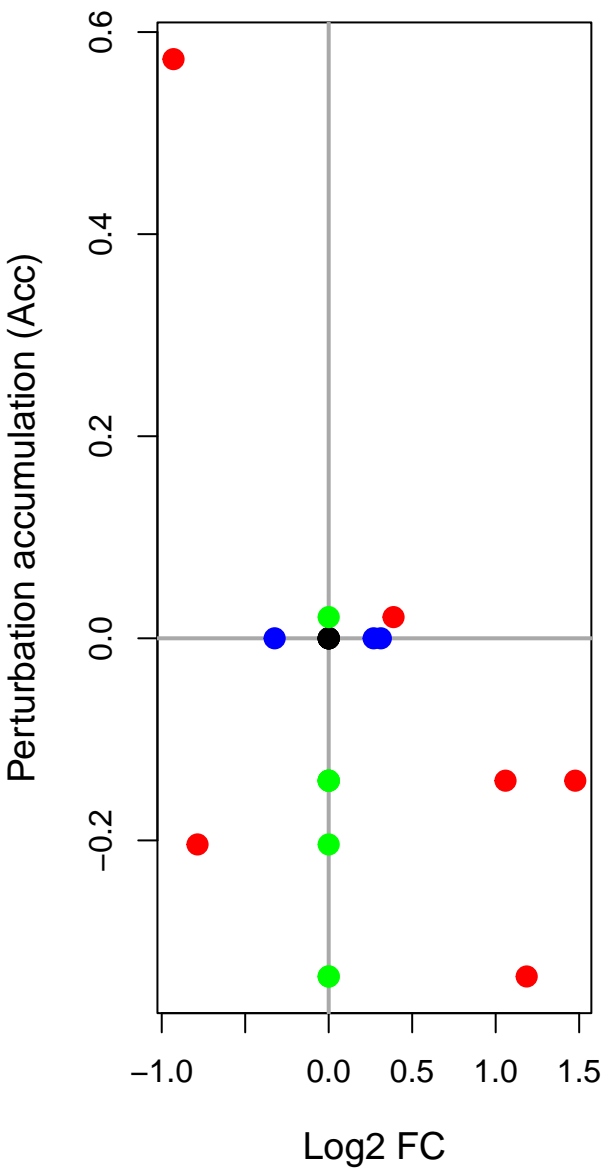
pathway ID=04672



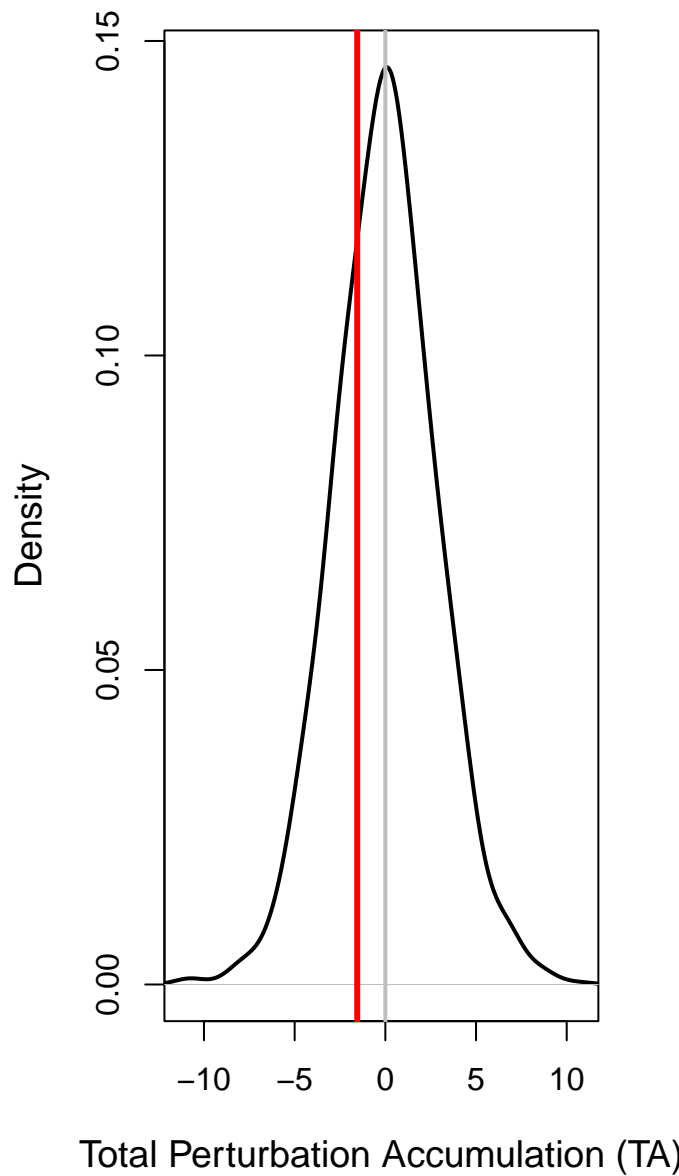
pathway ID=04672 P PERT=0.357



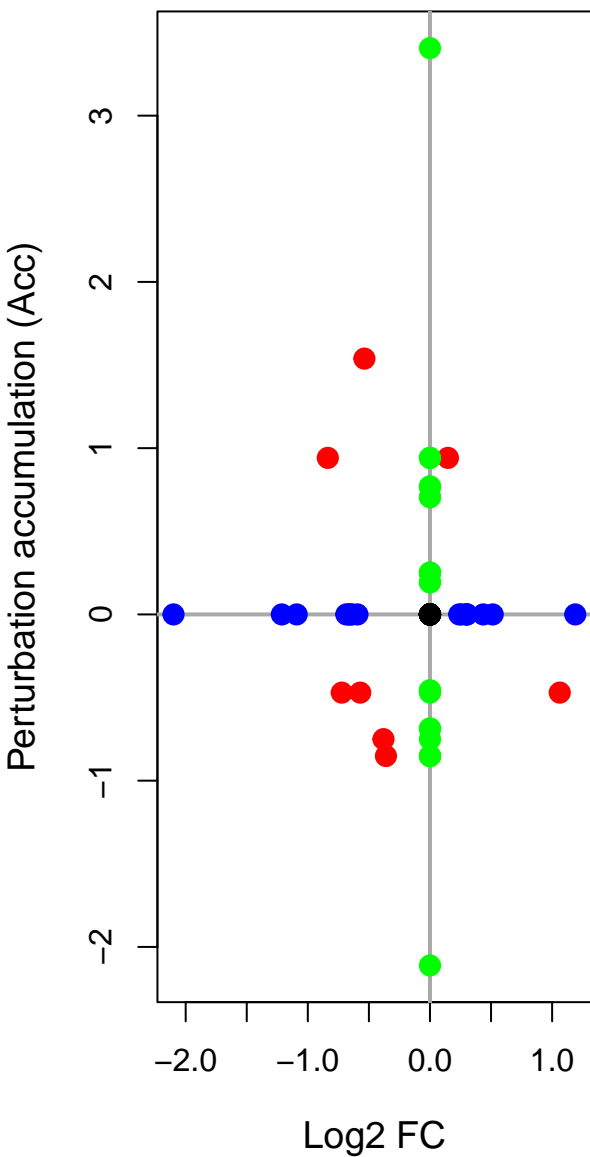
pathway ID=04710



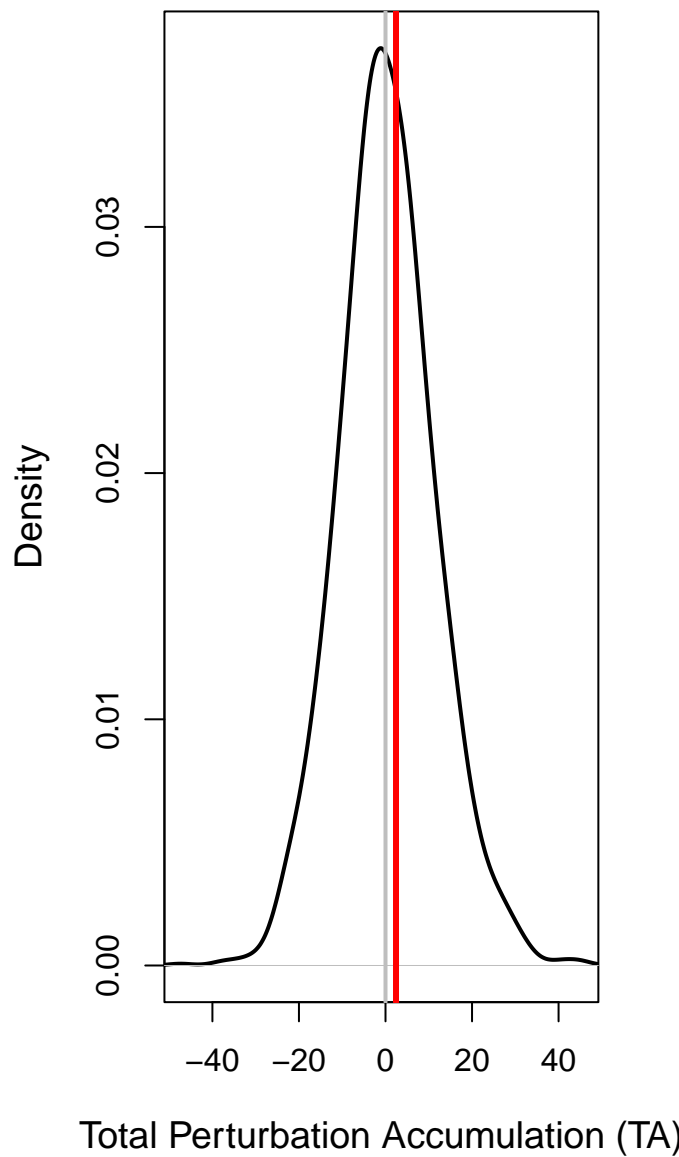
pathway ID=04710 P PERT=0.574



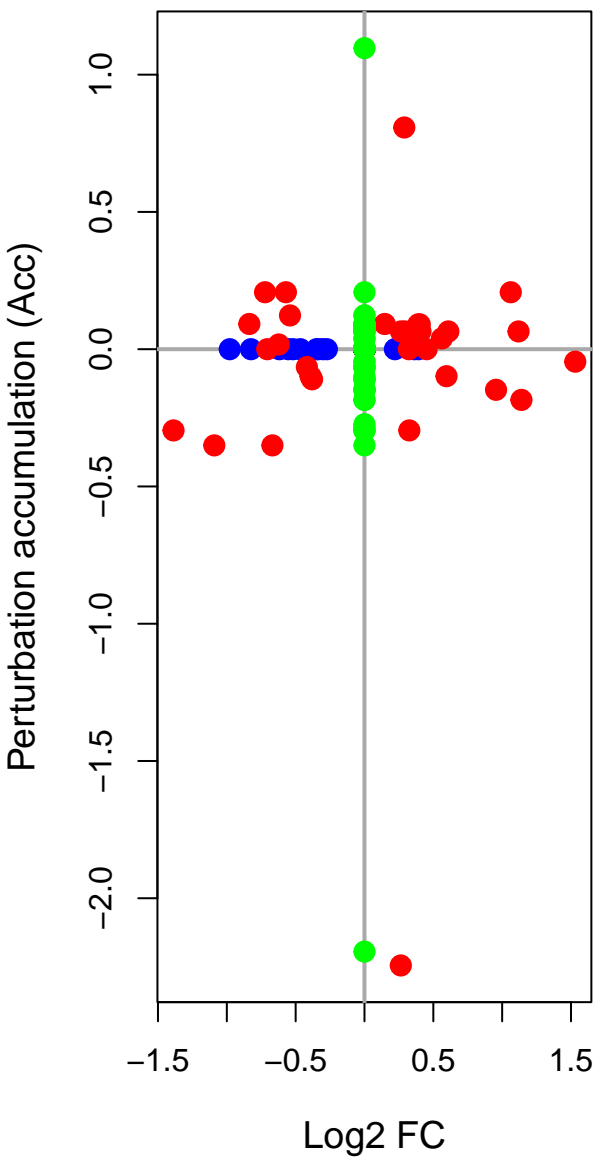
pathway ID=04720



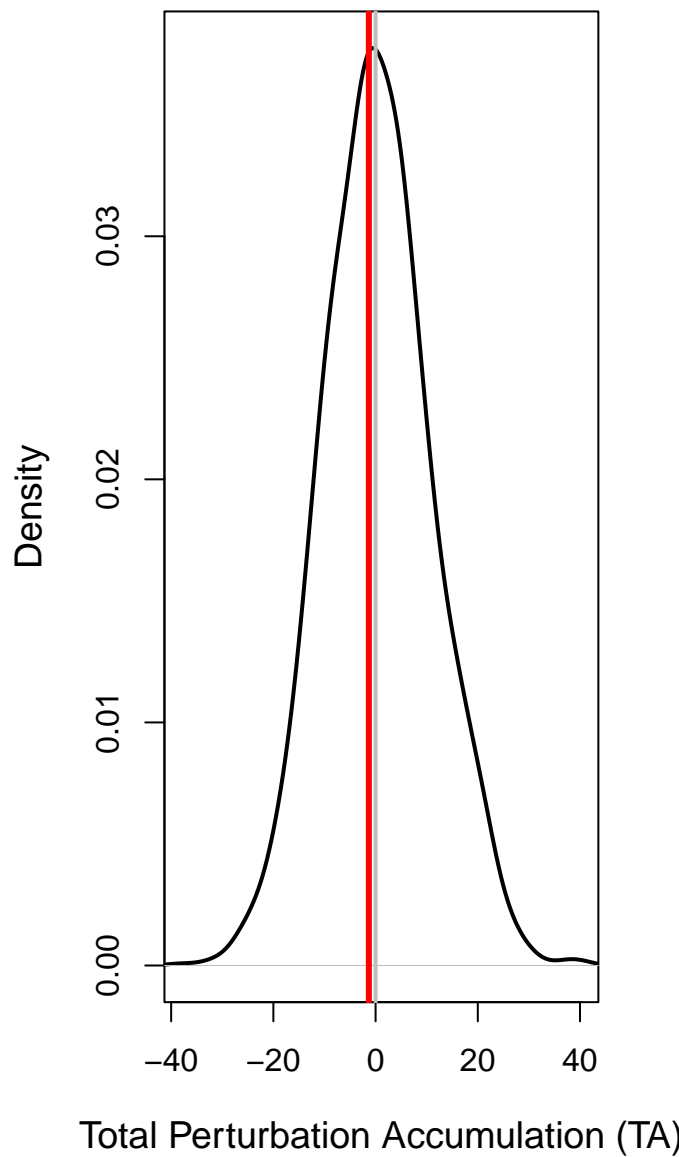
pathway ID=04720 P PERT=0.817



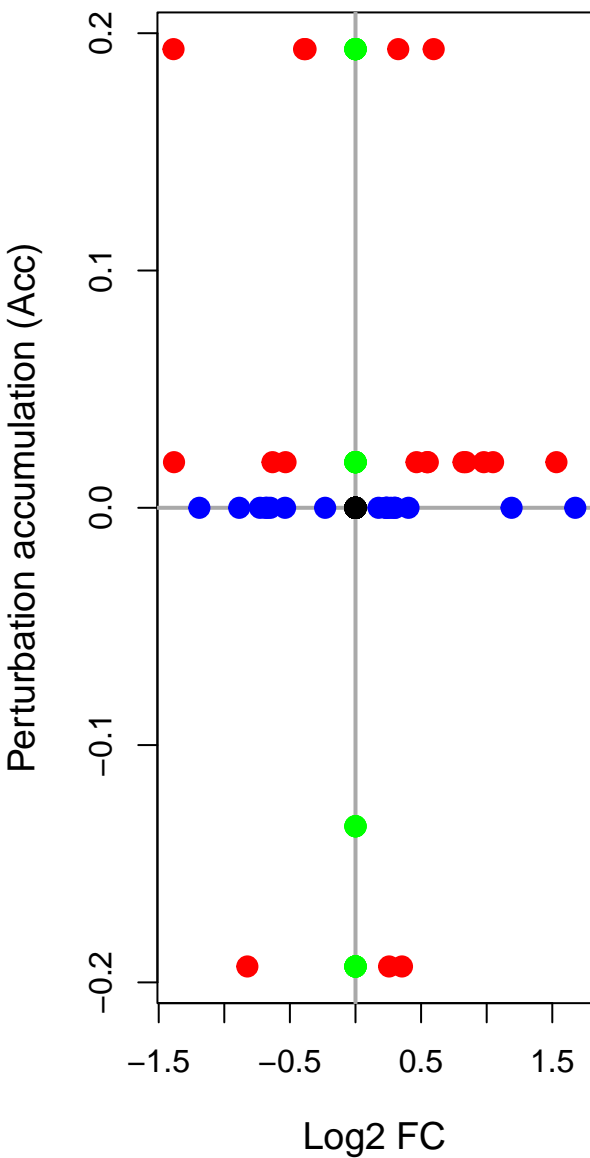
pathway ID=04722



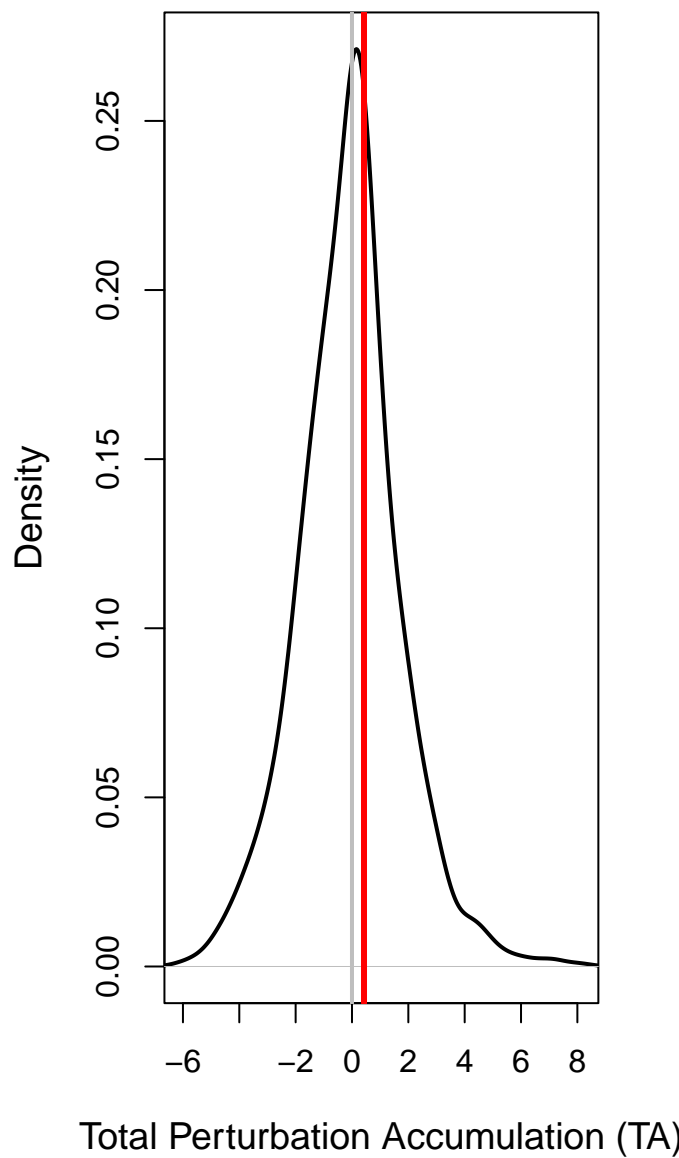
pathway ID=04722 P PERT=0.888



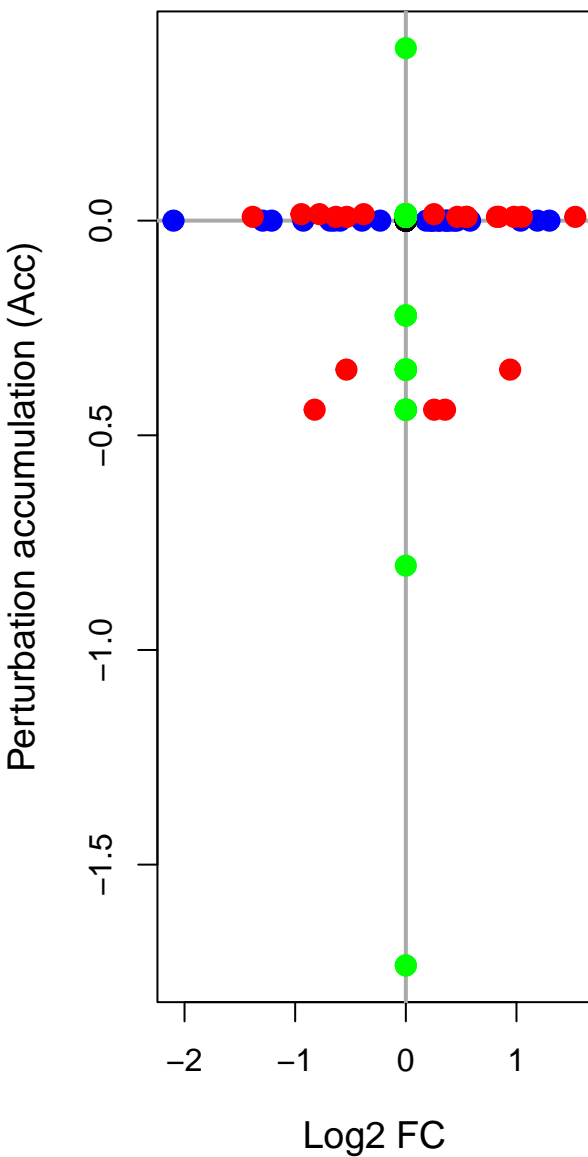
pathway ID=04723



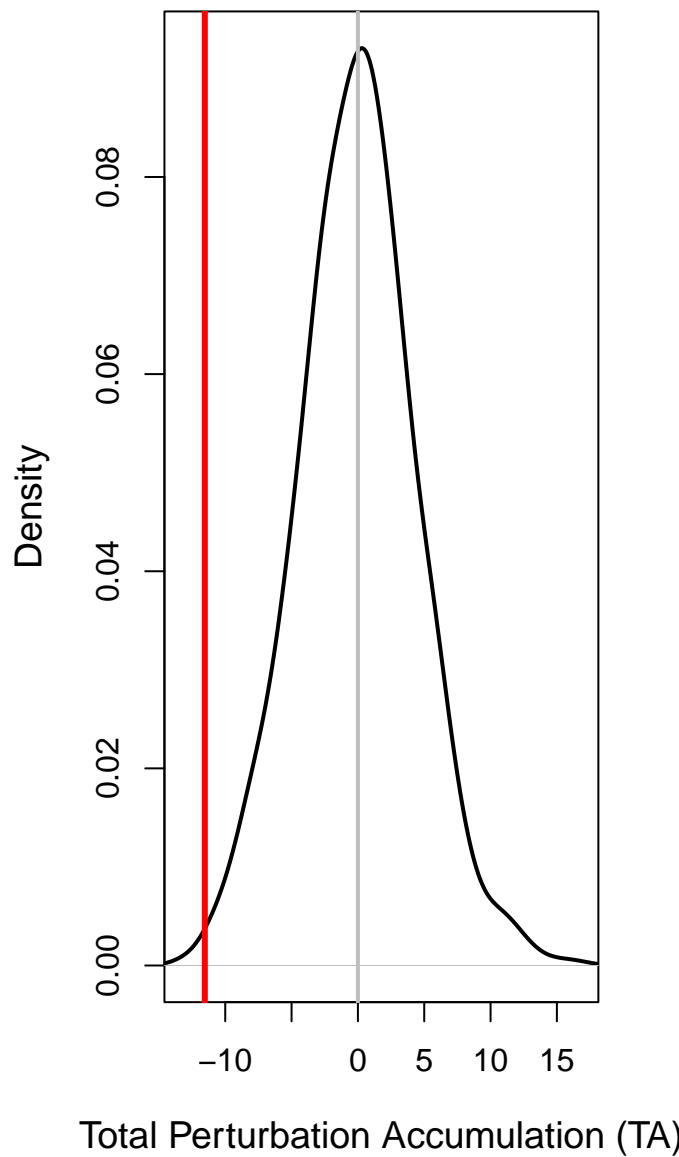
pathway ID=04723 P PERT=0.704



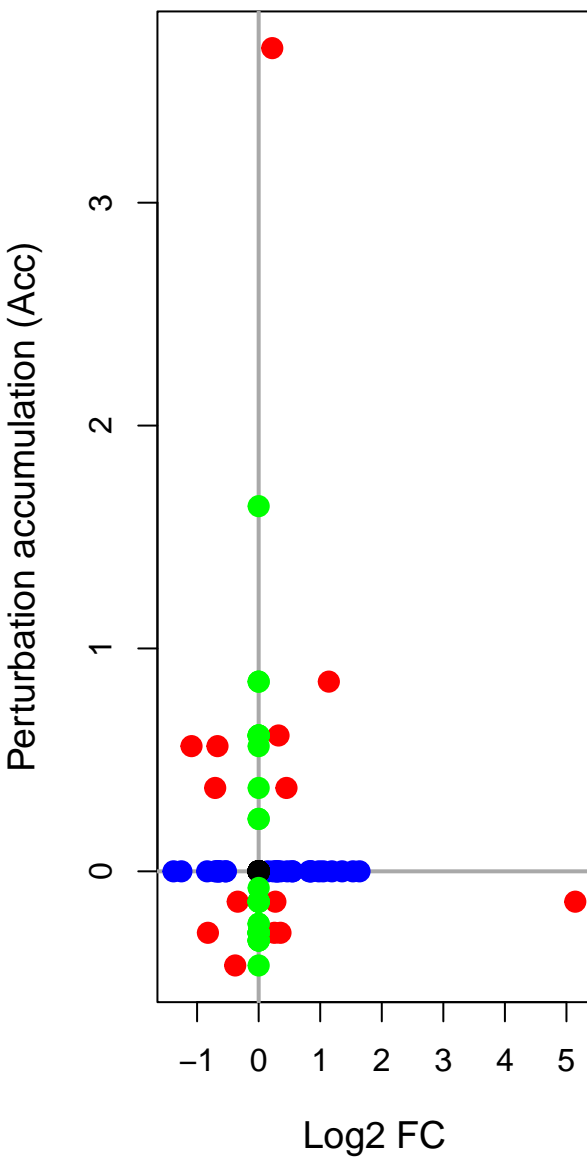
pathway ID=04724



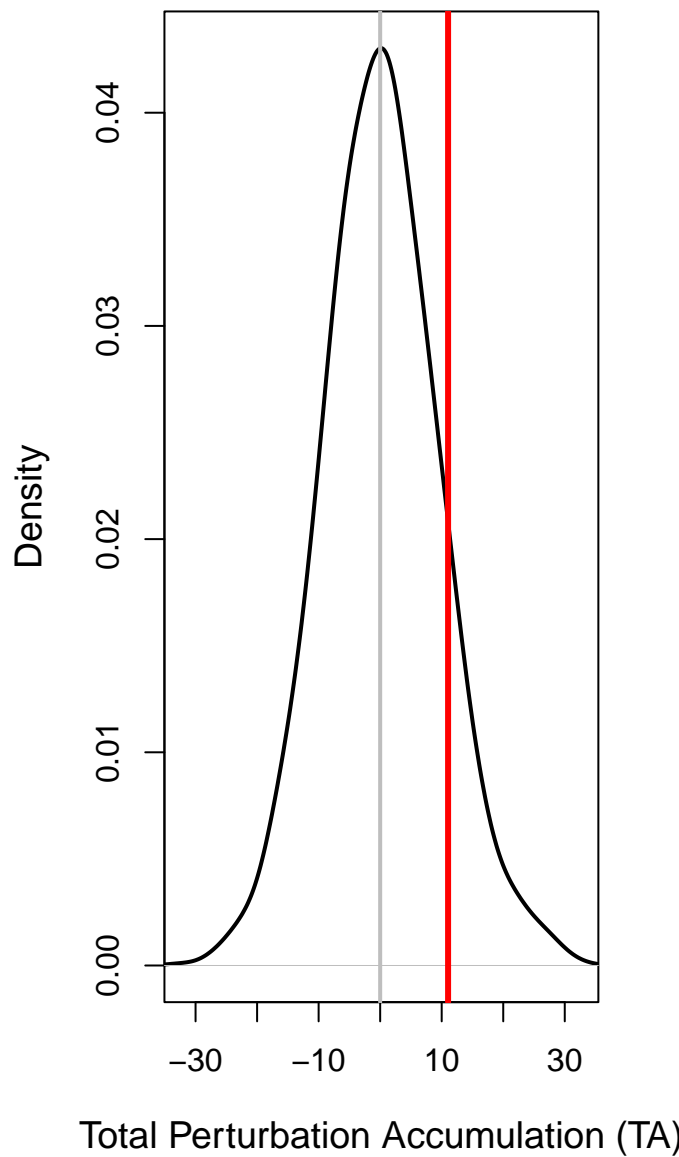
pathway ID=04724 P PERT=0.005



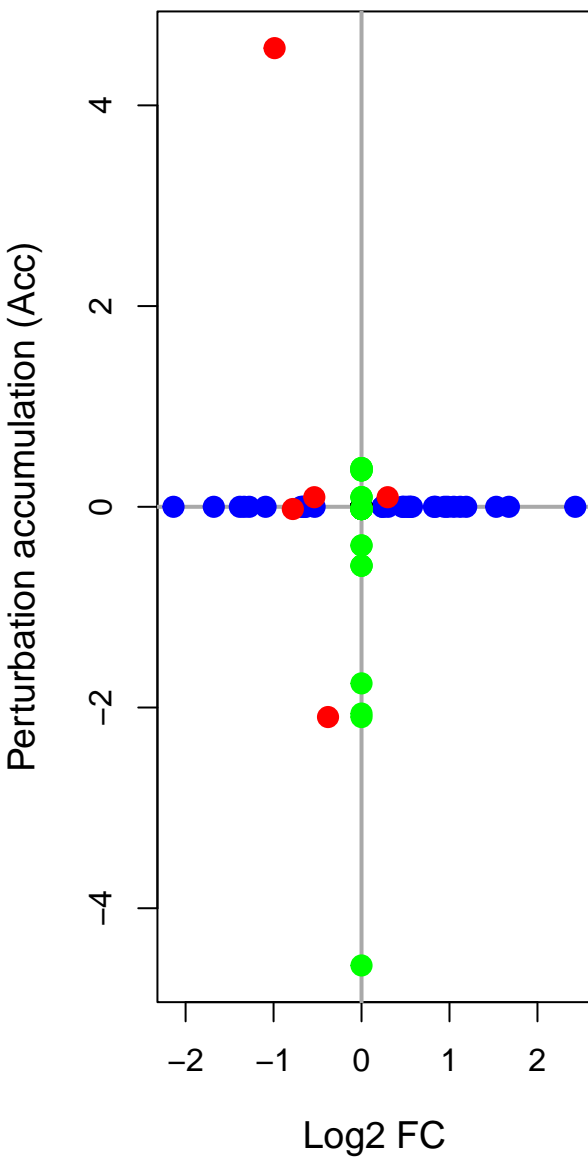
pathway ID=04725



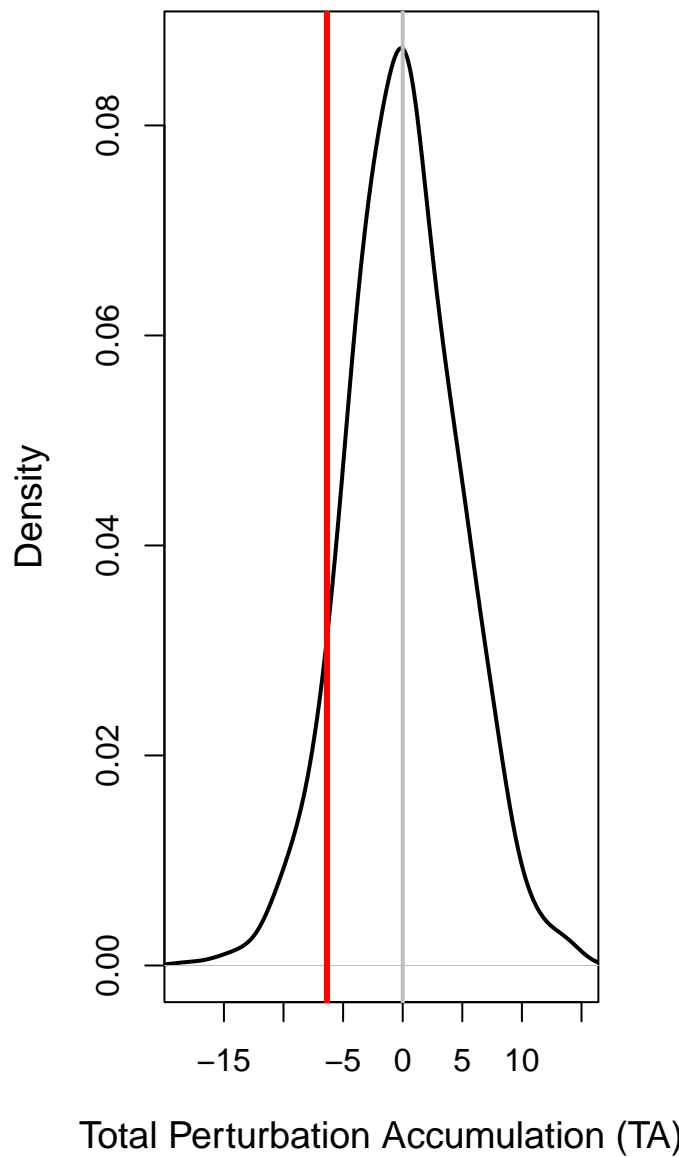
pathway ID=04725 P PERT=0.244



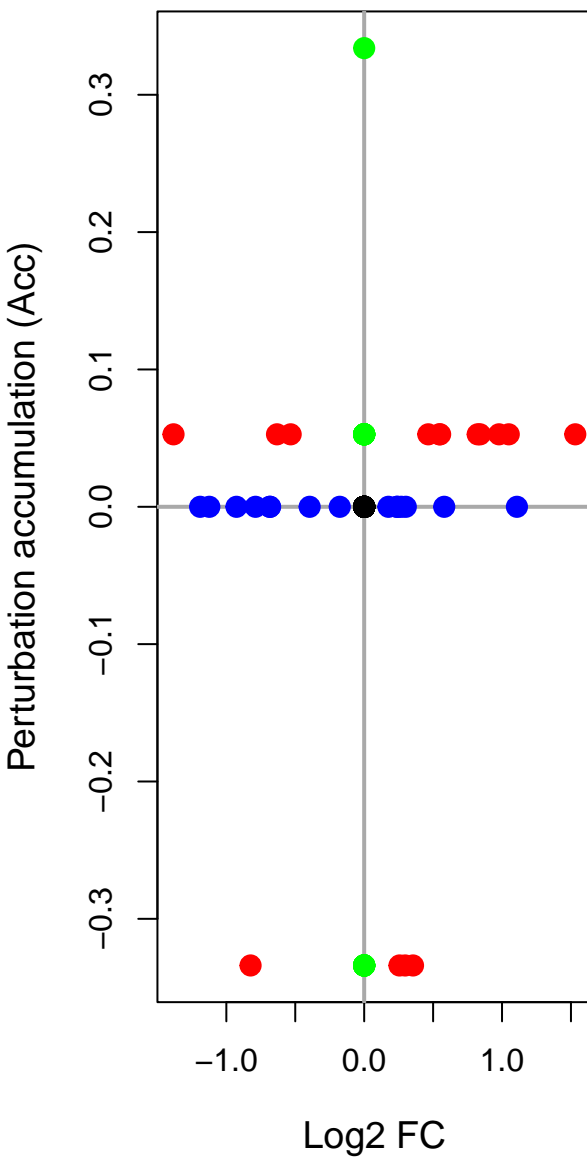
pathway ID=04726



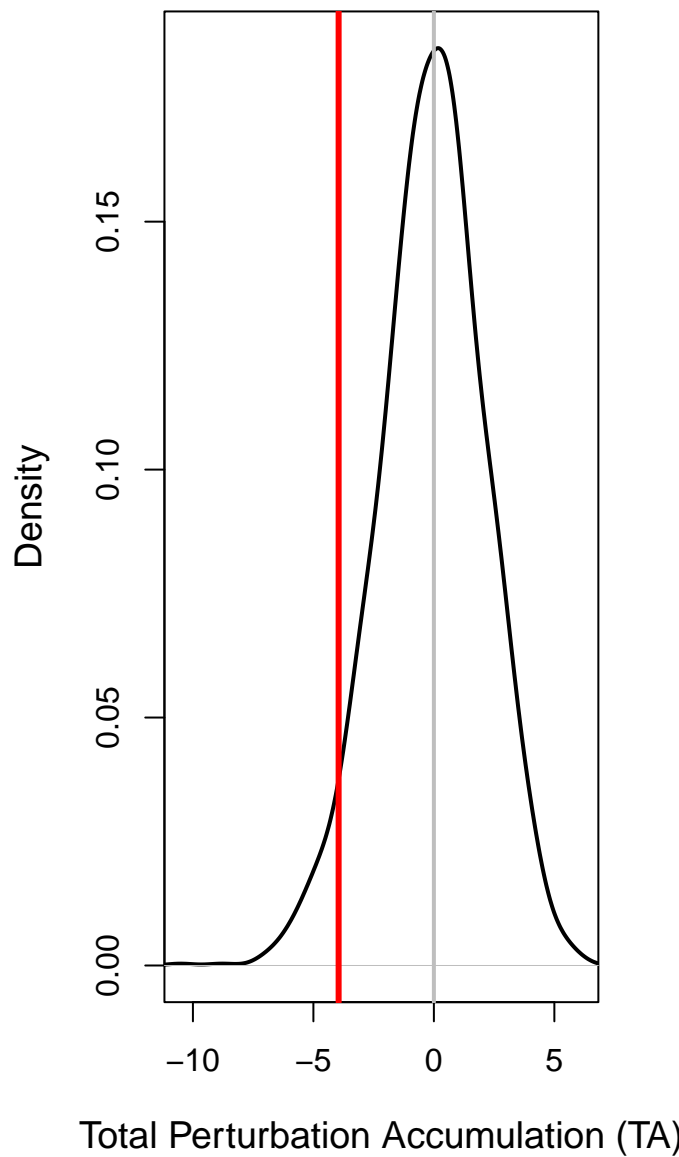
pathway ID=04726 P PERT=0.158



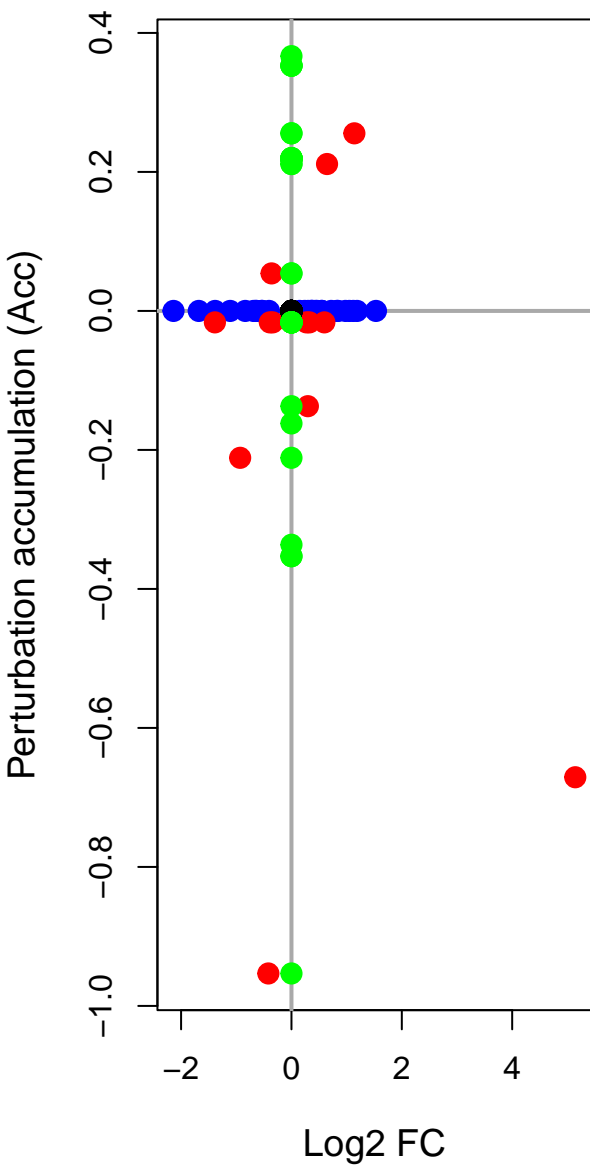
pathway ID=04727



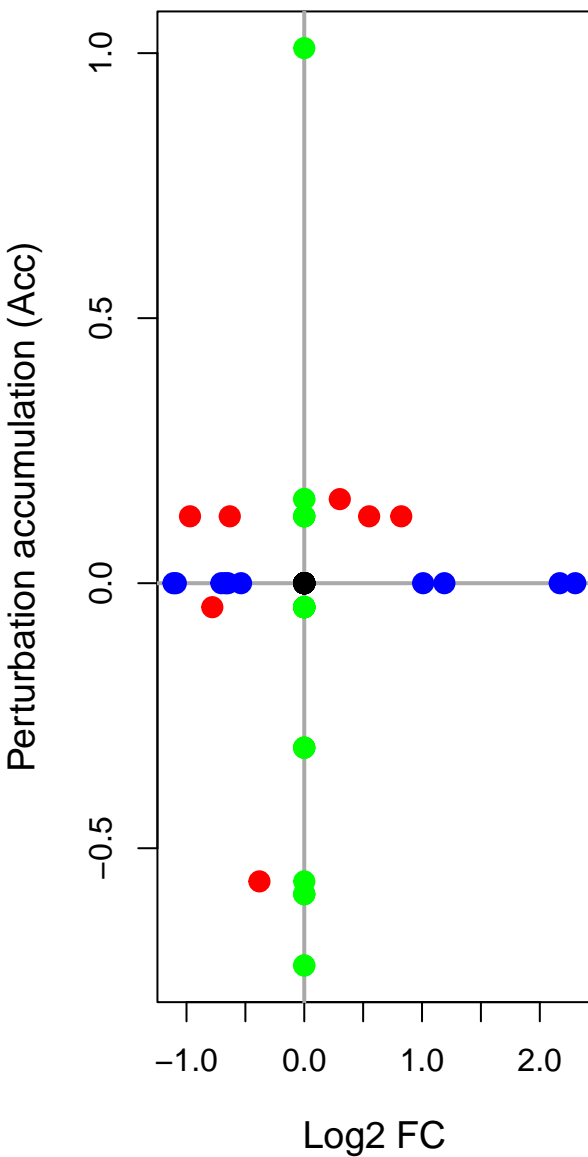
pathway ID=04727 P PERT=0.085



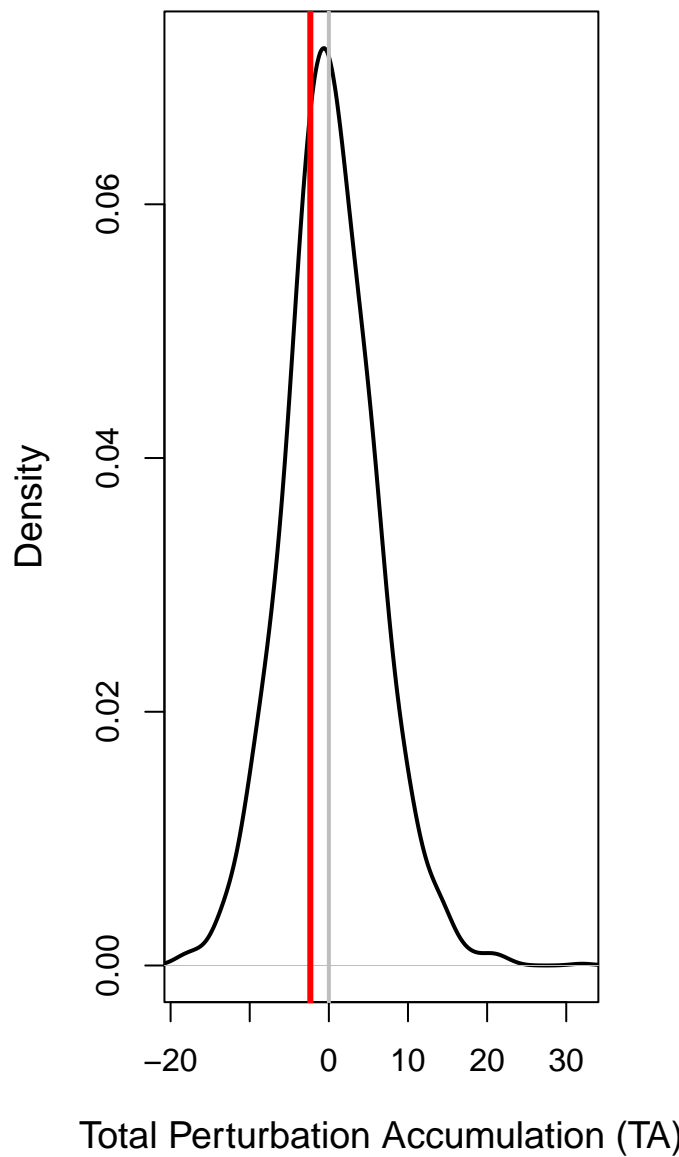
pathway ID=04728



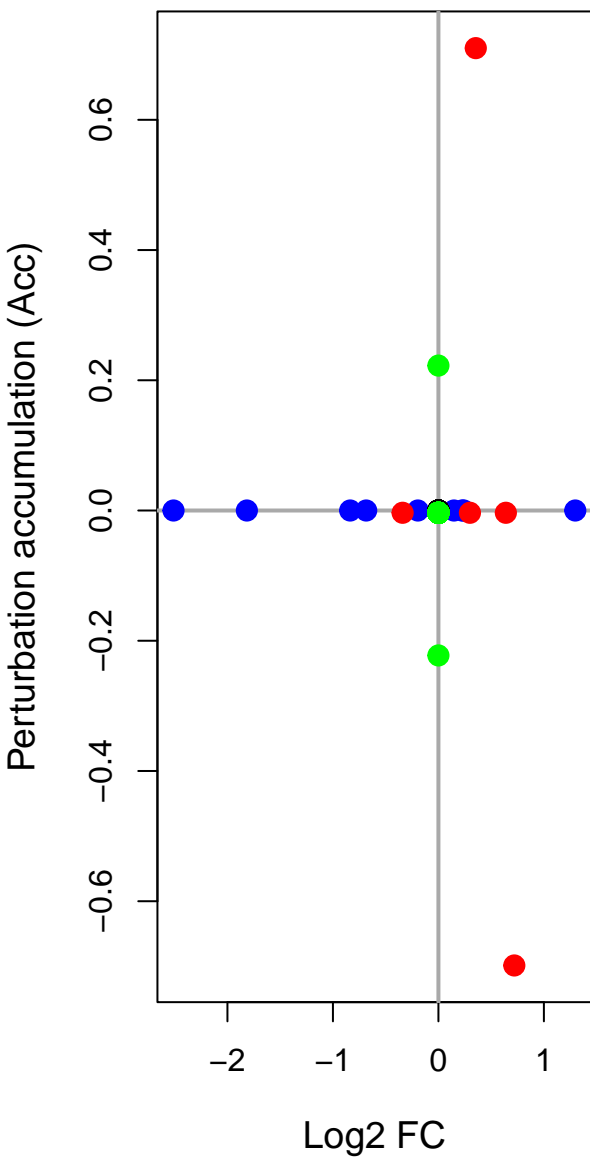
pathway ID=04730



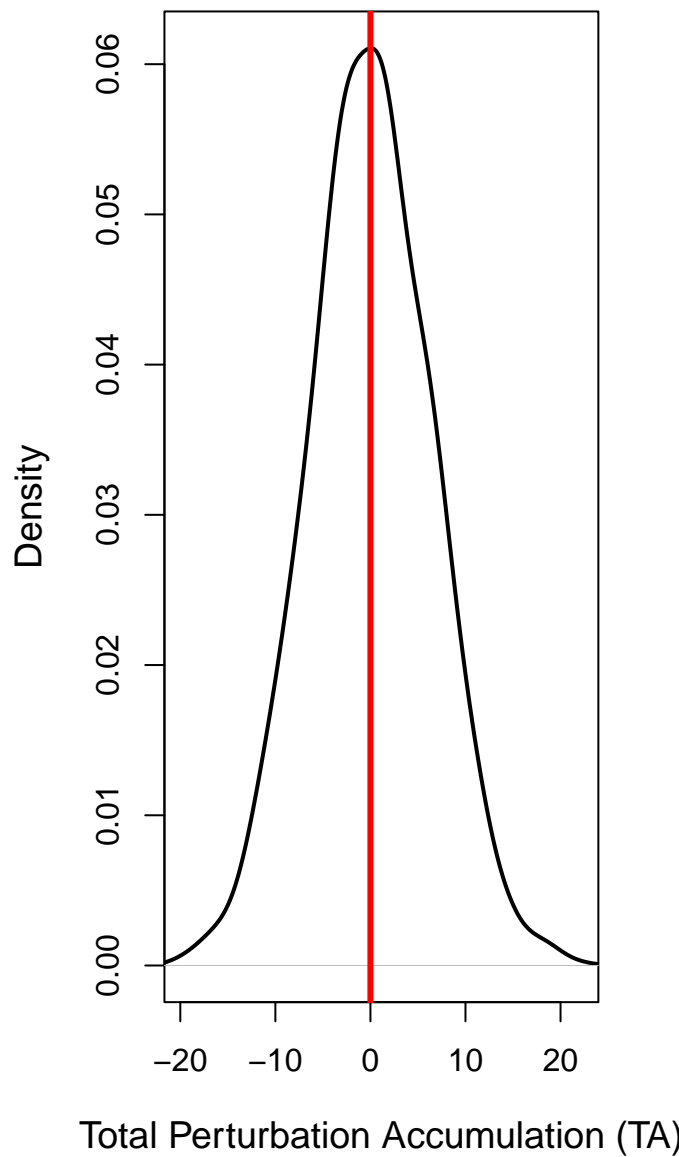
pathway ID=04730 P PERT=0.653



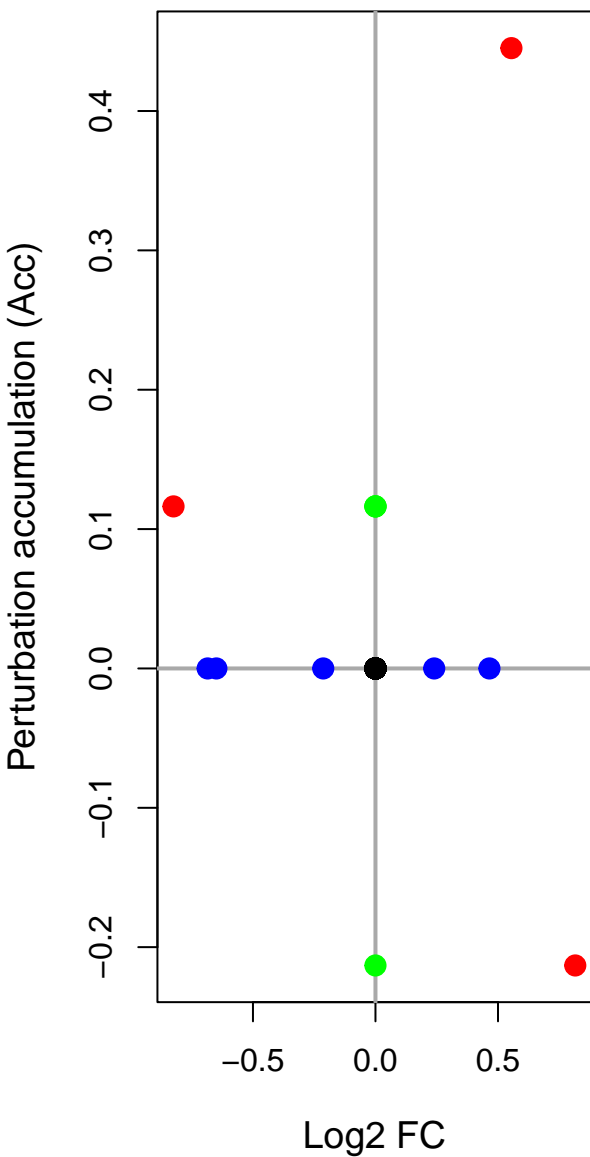
pathway ID=04740



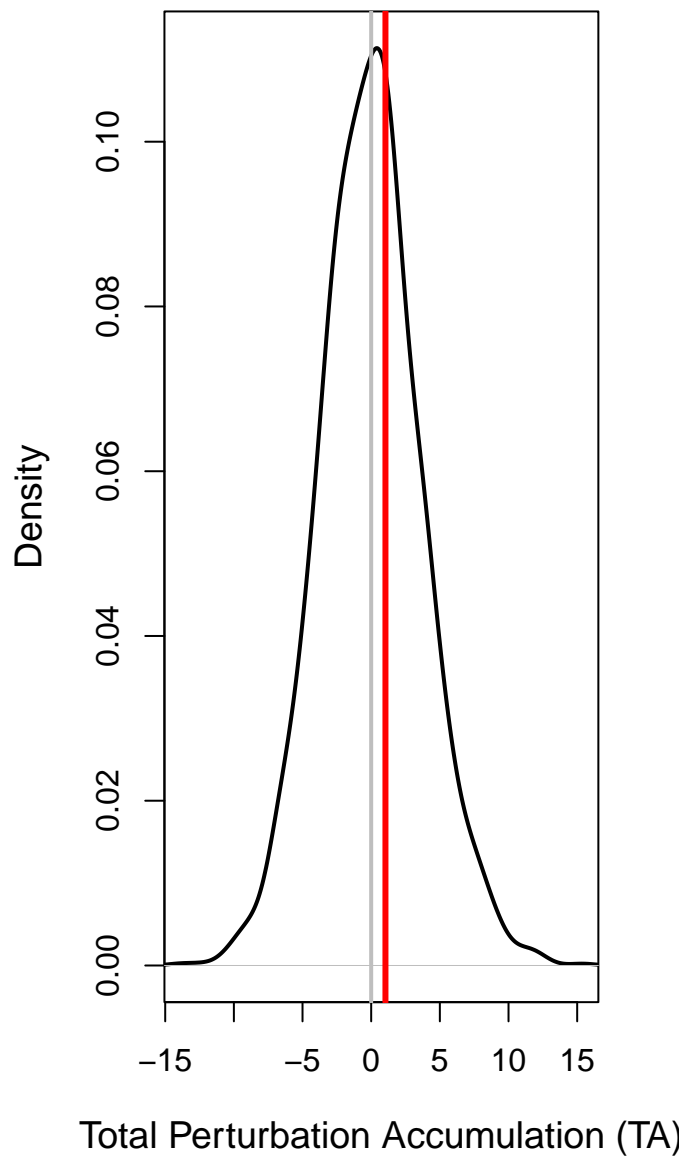
pathway ID=04740 P PERT=1



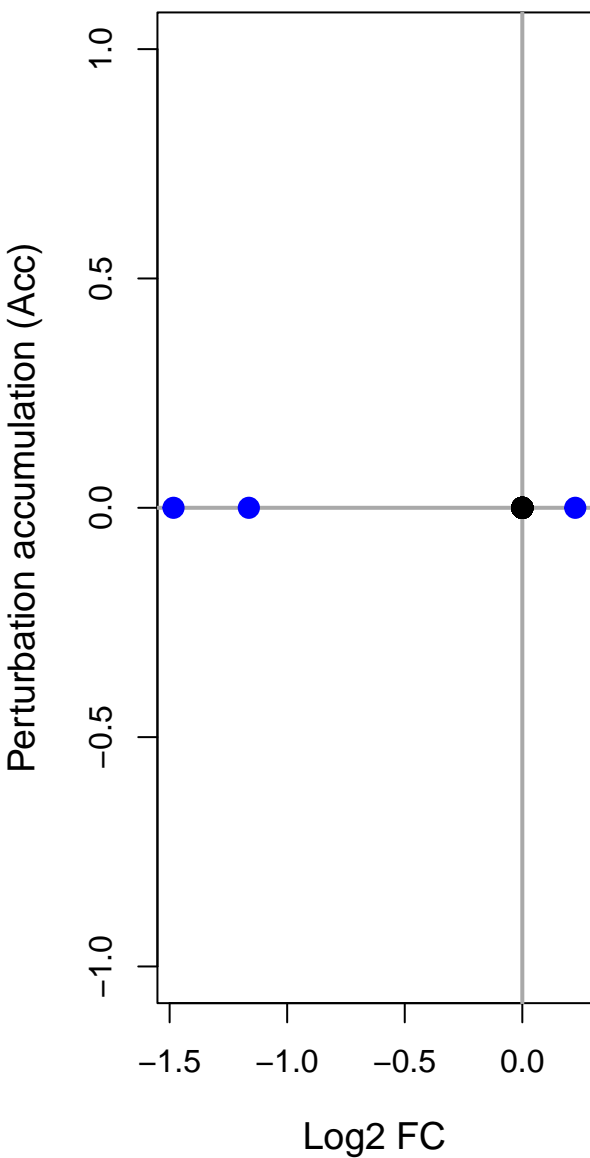
pathway ID=04742



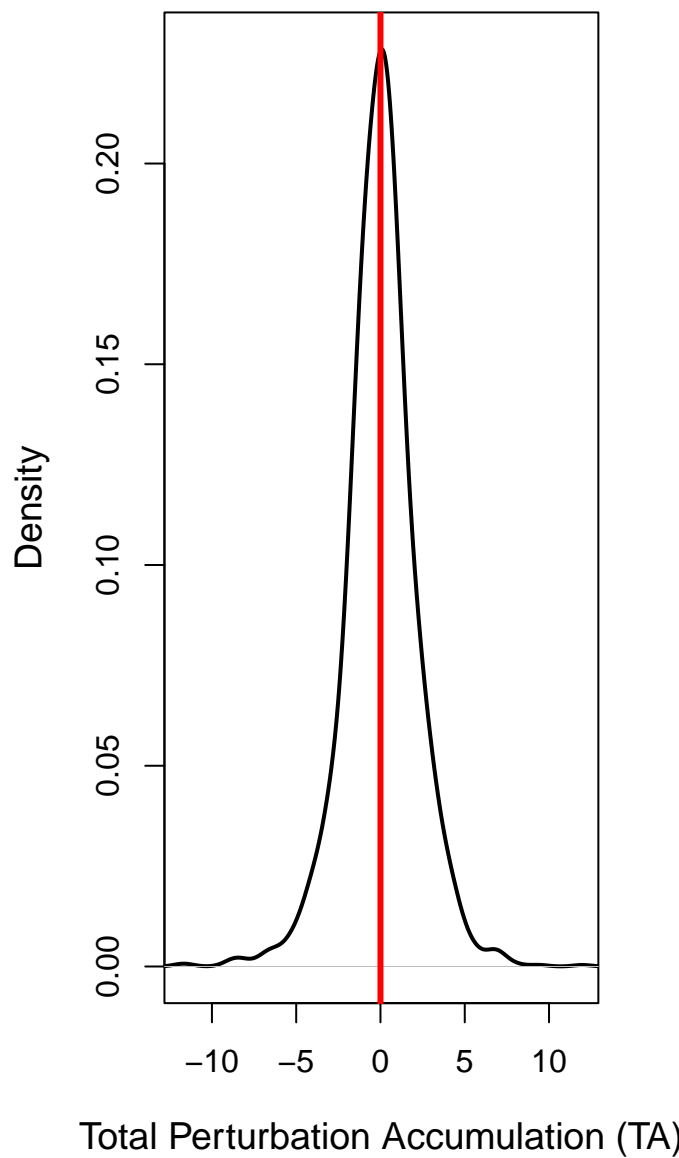
pathway ID=04742 P PERT=0.749



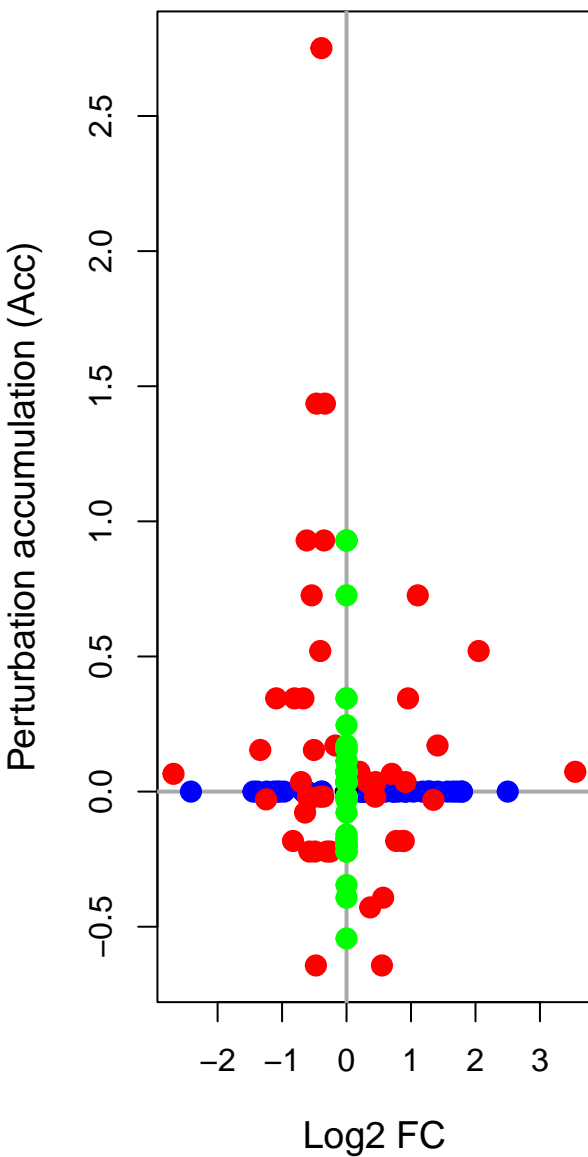
pathway ID=04744



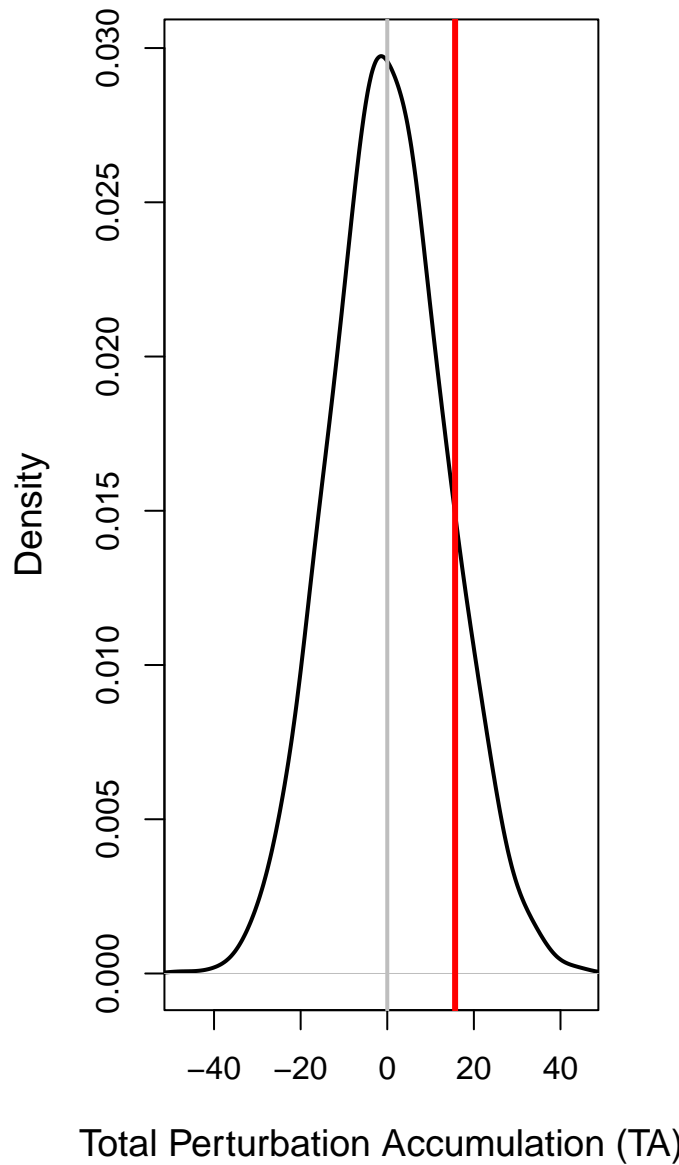
pathway ID=04744 P PERT=1



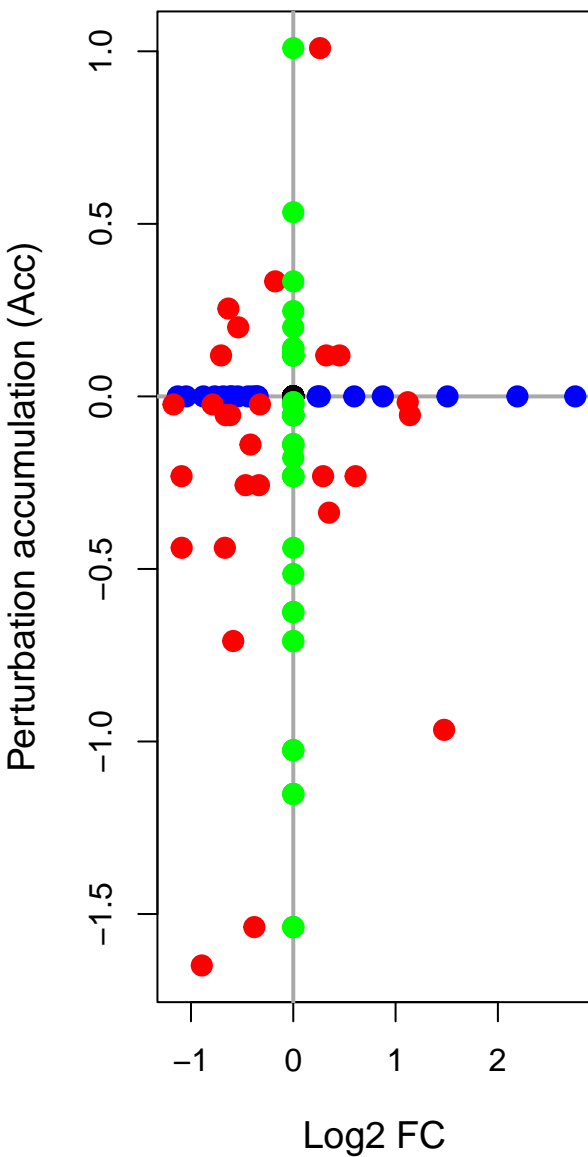
pathway ID=04810



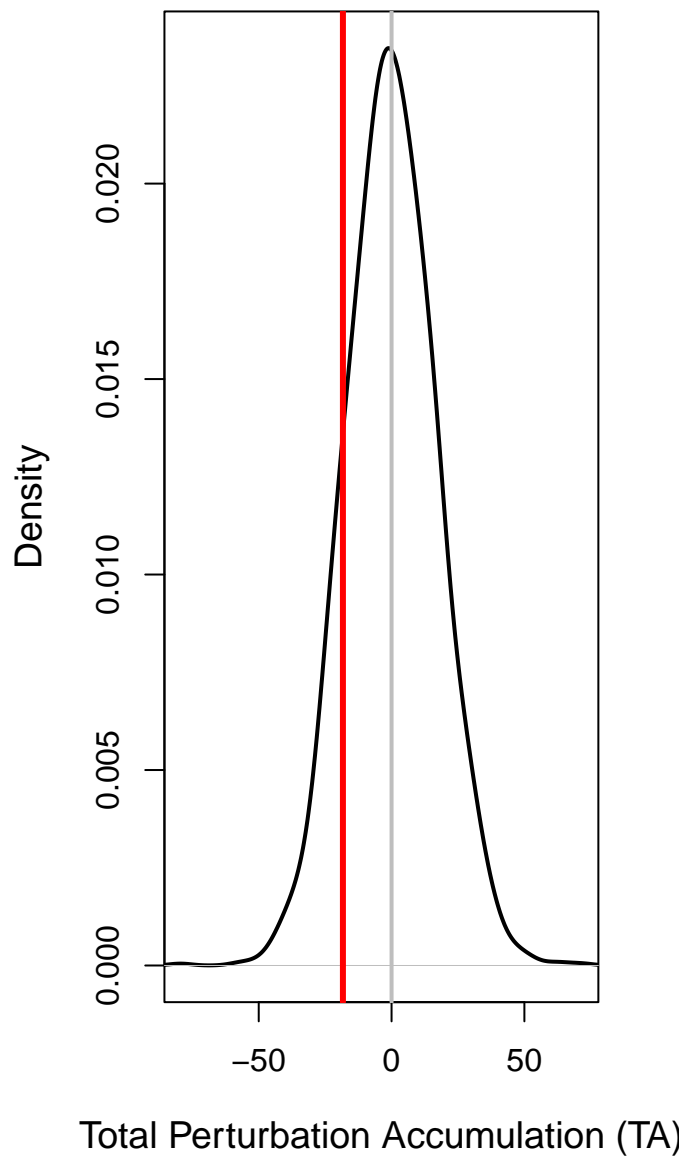
pathway ID=04810 P PERT=0.248



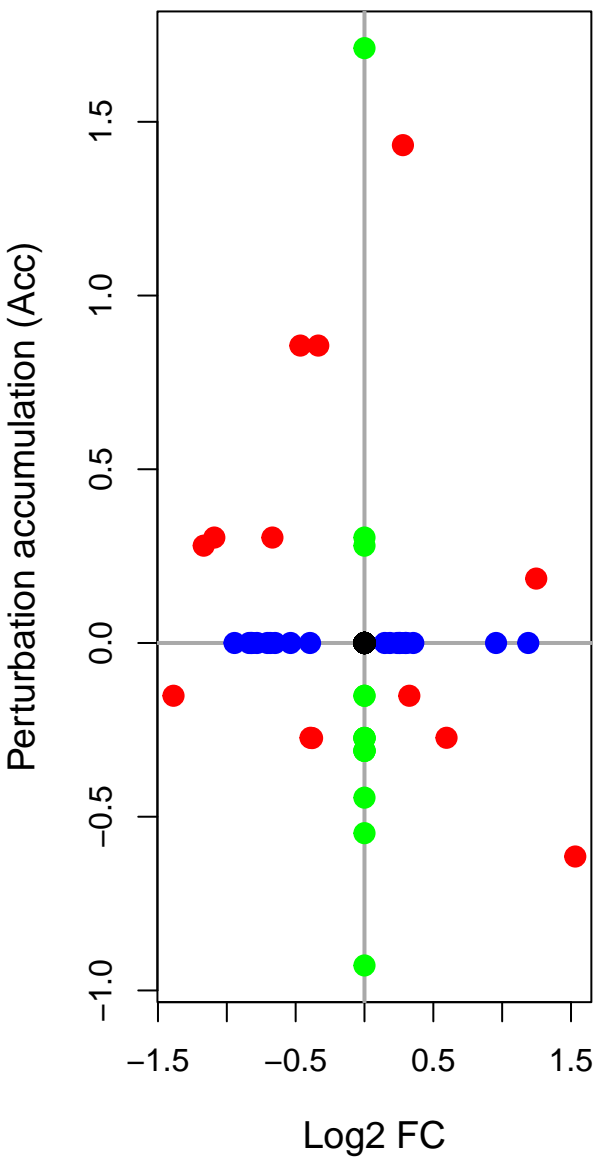
pathway ID=04910



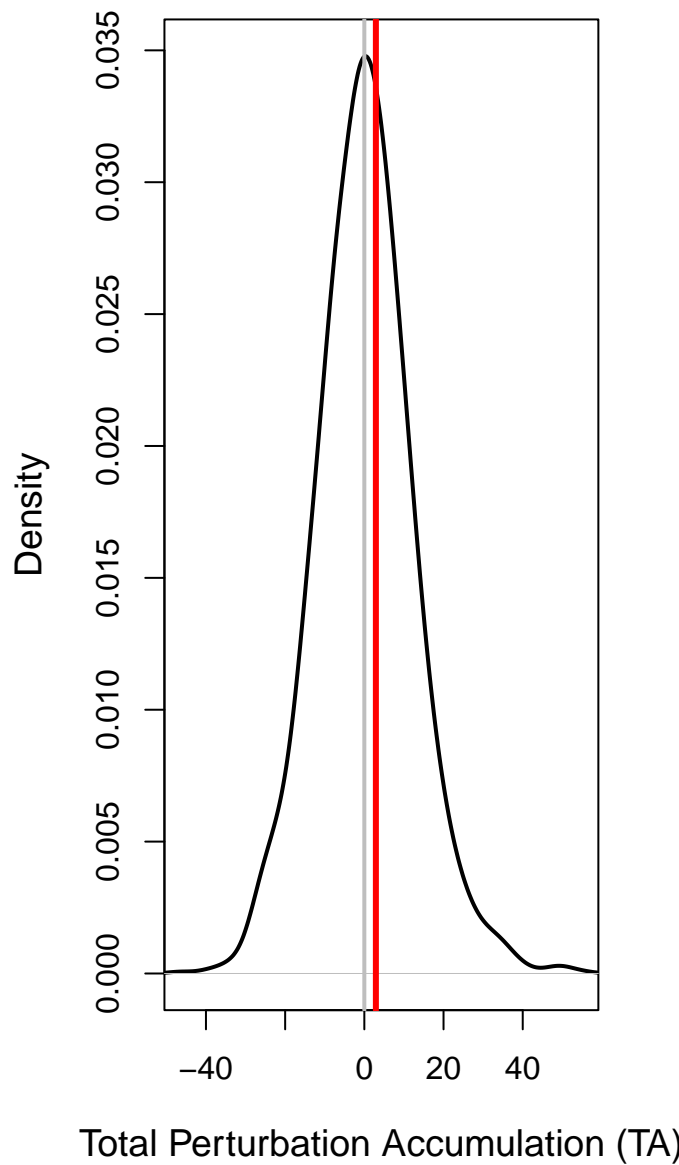
pathway ID=04910 P PERT=0.272



pathway ID=04912



pathway ID=04912 P PERT=0.794

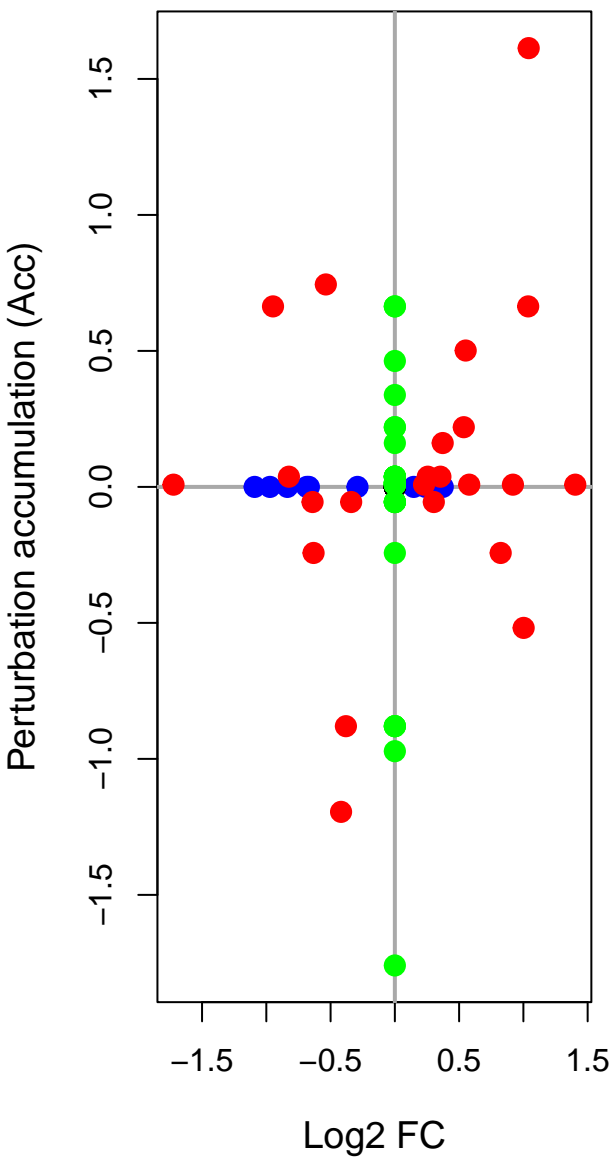


Perturbation accumulation (Acc)

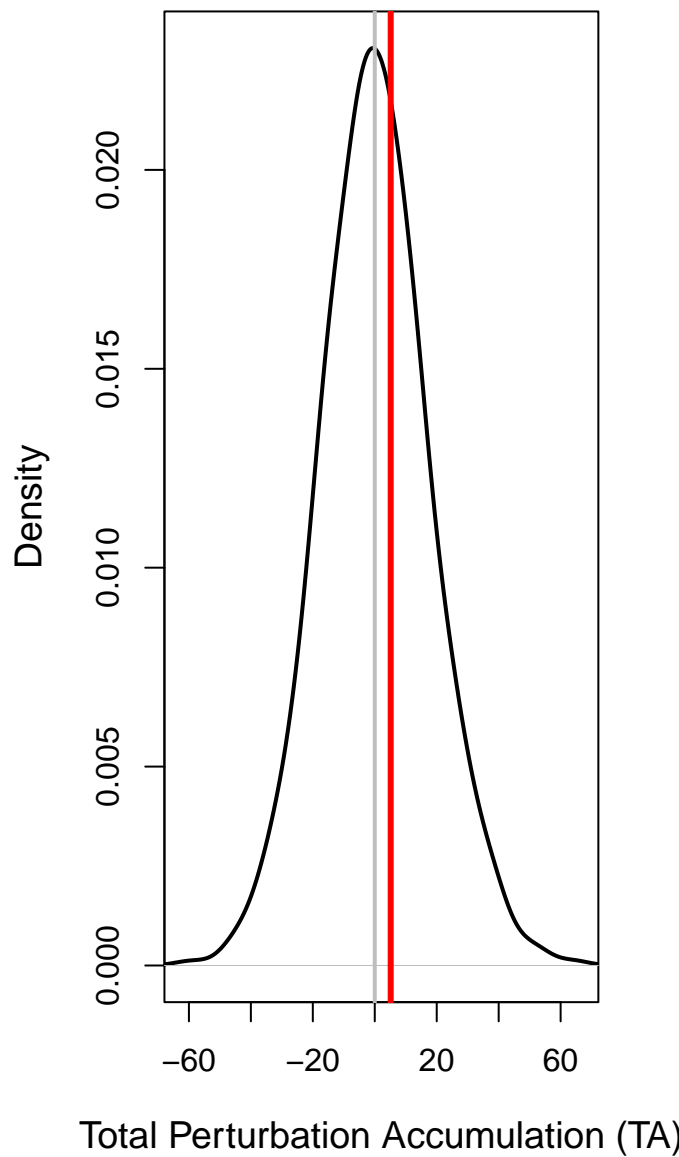
The figure shows a probability density function (PDF) represented by a black curve. The x-axis ranges from -30 to 20, and the y-axis ranges from 0.00 to 0.08. A vertical grey line is drawn at the mean of the distribution, which is approximately -1. A vertical red line is drawn at the 95th percentile of the distribution, which is approximately 2. The area under the curve to the right of the red line is shaded in light red, representing the 5% tail area.

Density

pathway ID=04916



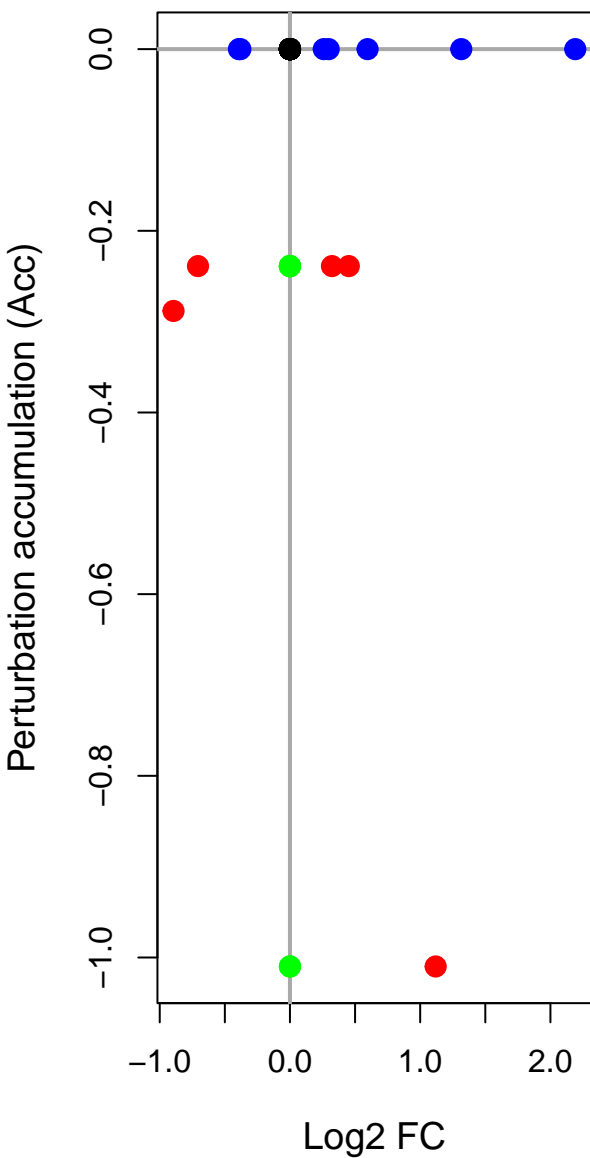
pathway ID=04916 P PERT=0.749



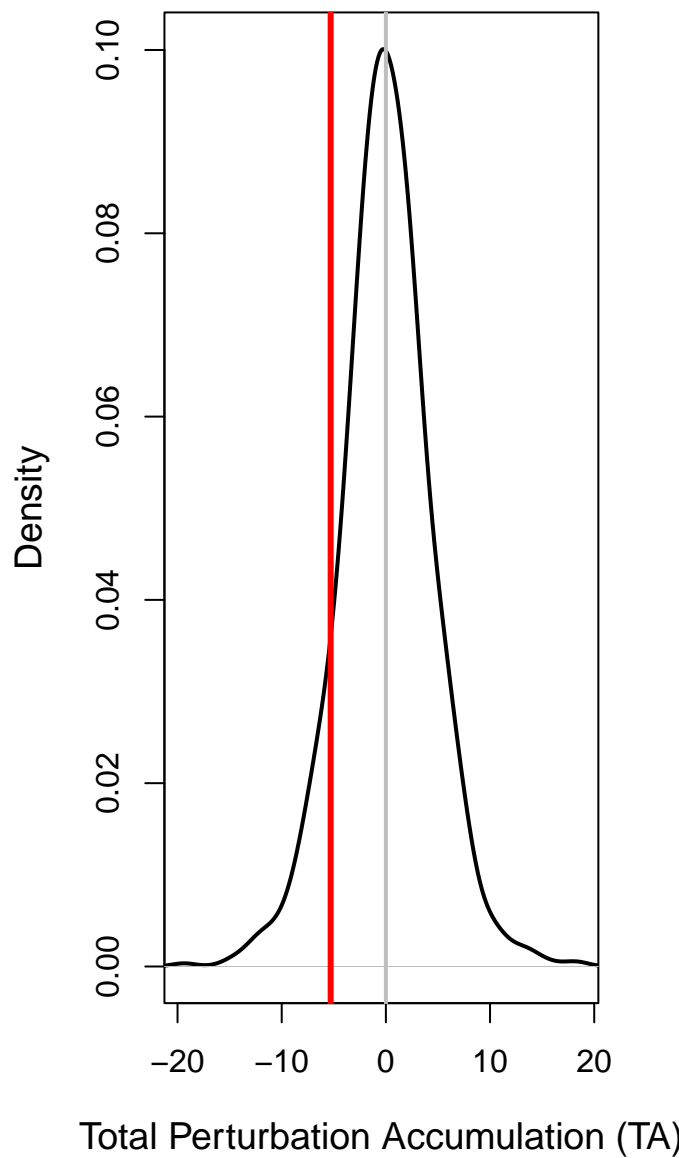
A density plot of a normal distribution. The x-axis ranges from -15 to 15 with major ticks at -15, -5, 0, 5, and 10. The y-axis, labeled 'Density', ranges from 0.00 to 0.10 with major ticks at 0.00, 0.02, 0.04, 0.06, 0.08, and 0.10. A black curve represents the probability density function, peaking at approximately 0.12 at x = 0. A vertical grey line is drawn at x = 0, representing the mean. A vertical red line is drawn at approximately x = 2.5, representing the standard deviation.

Total Perturbation Accumulation (TA)

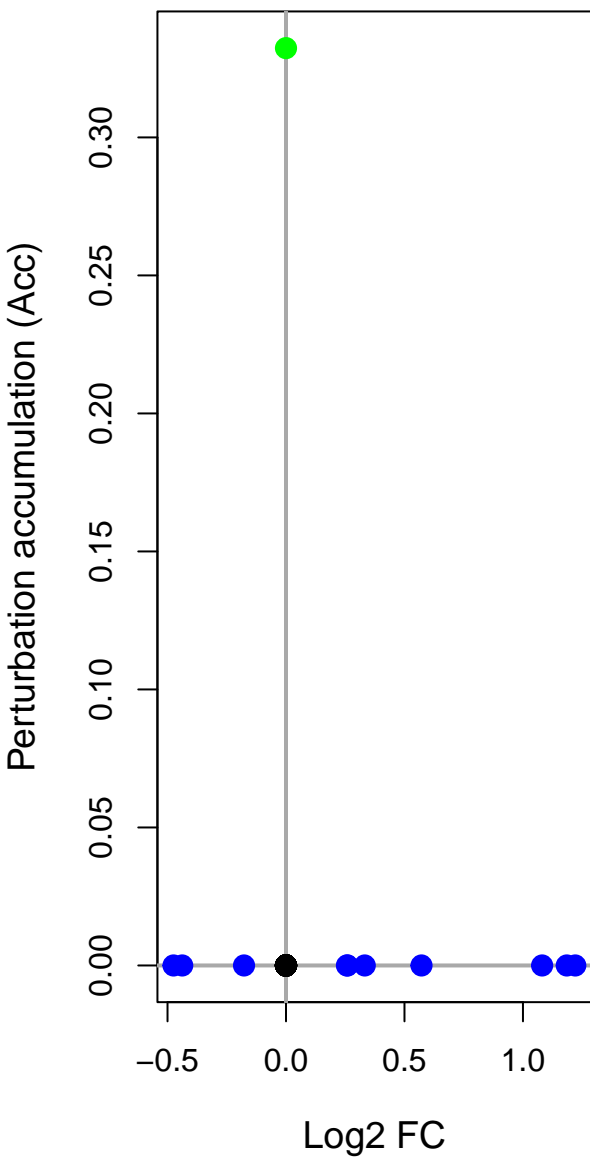
pathway ID=04930



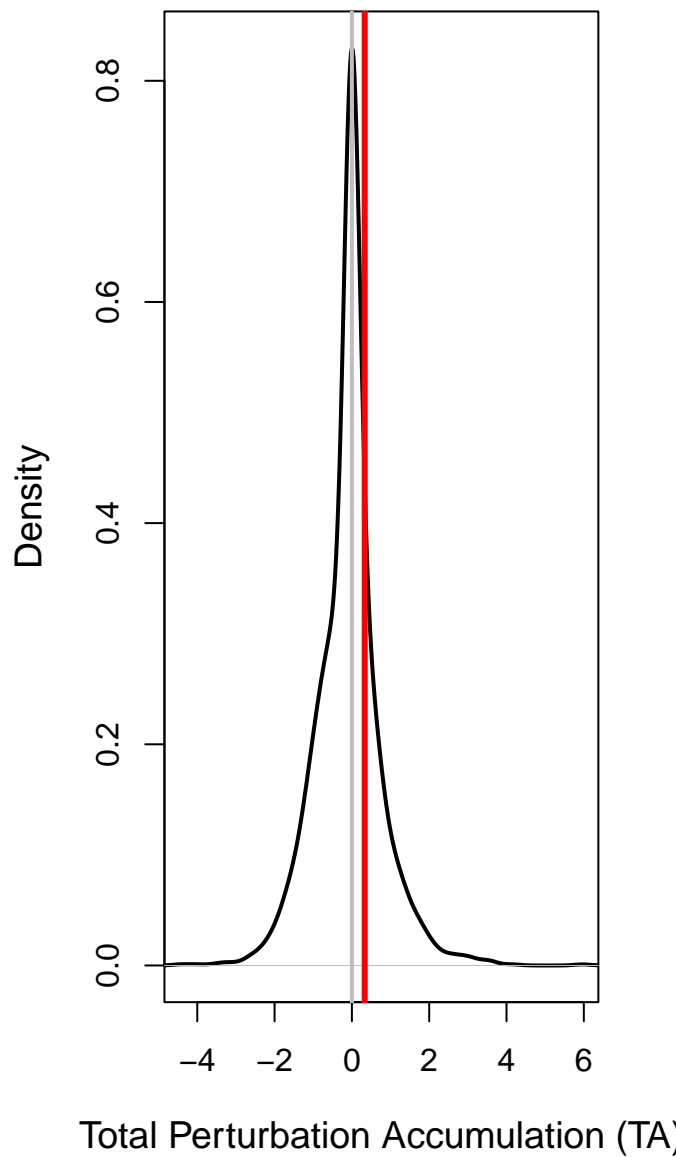
pathway ID=04930 P PERT=0.203



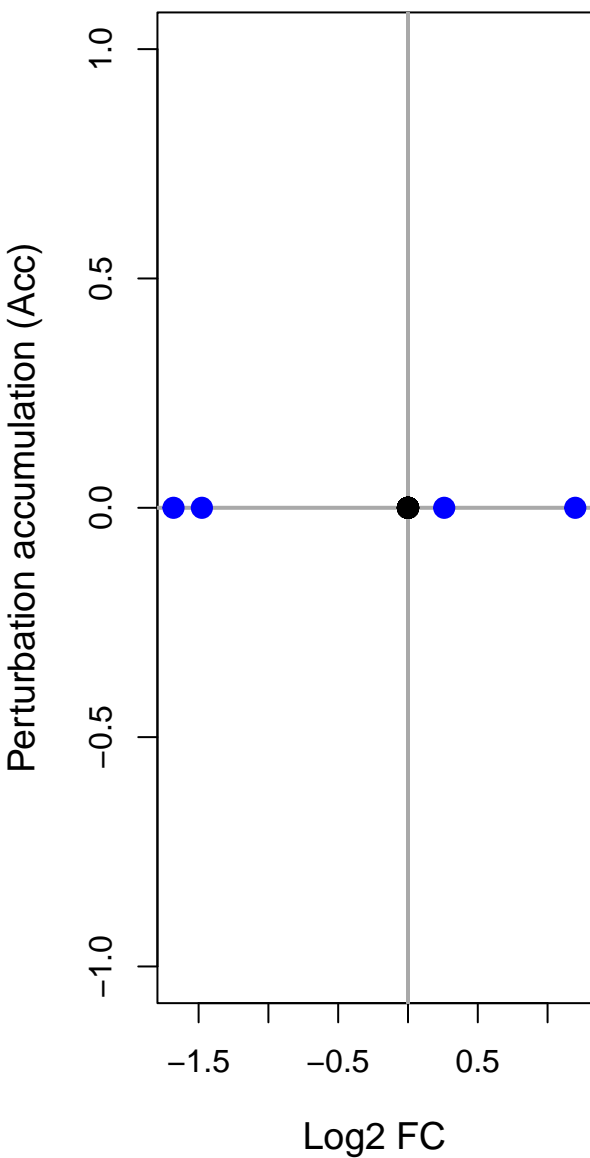
pathway ID=04940



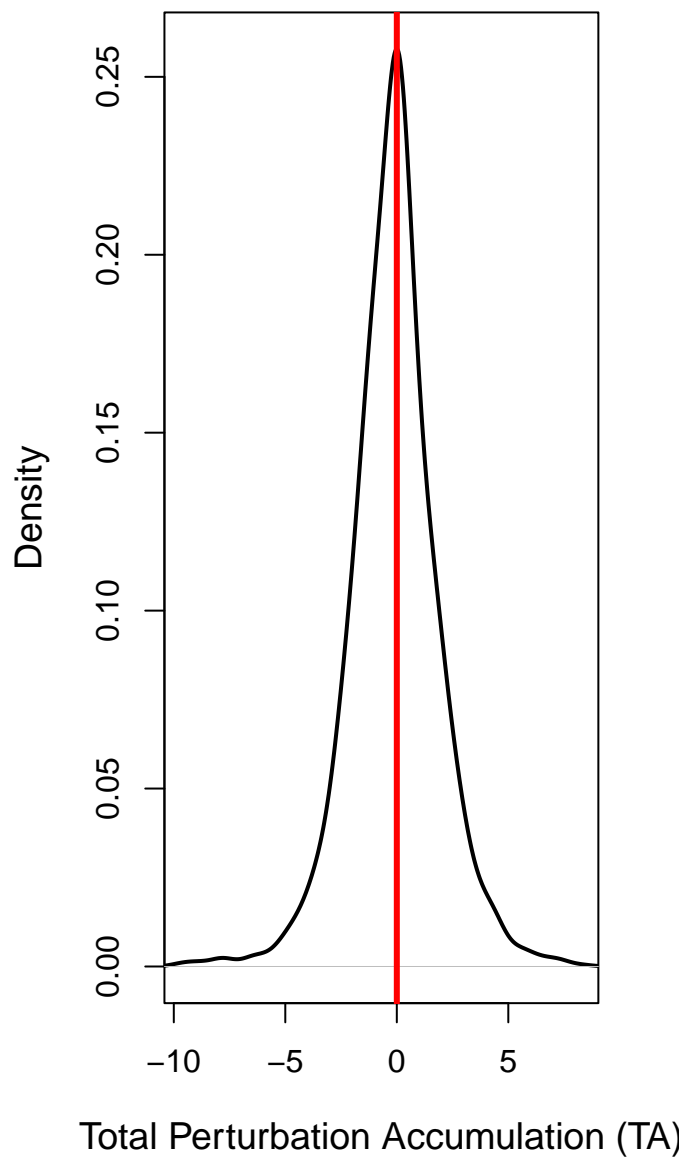
pathway ID=04940 P PERT=0.443



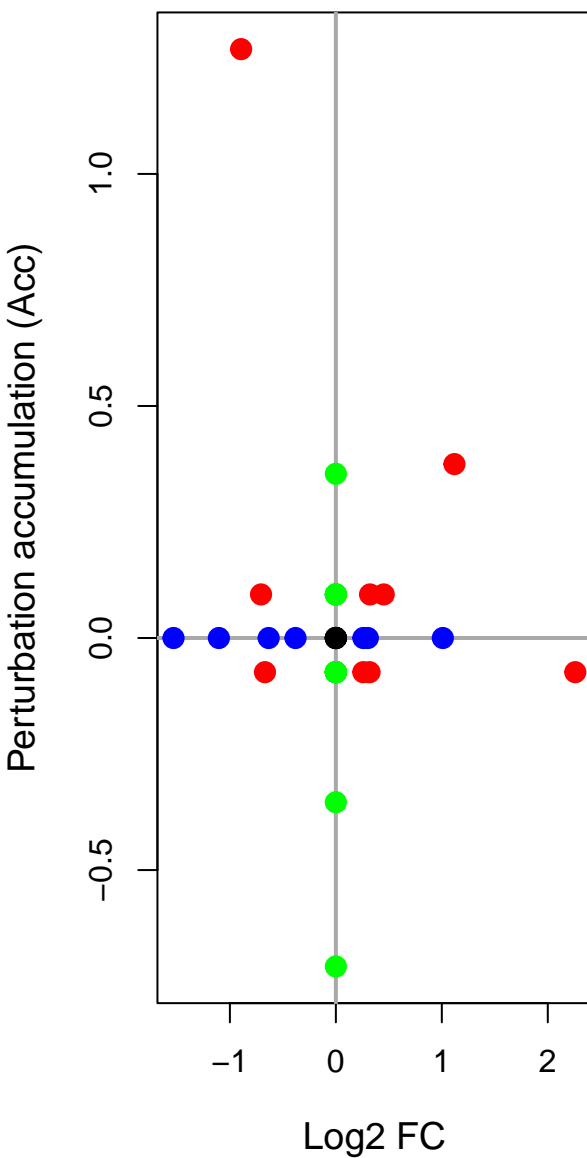
pathway ID=04950



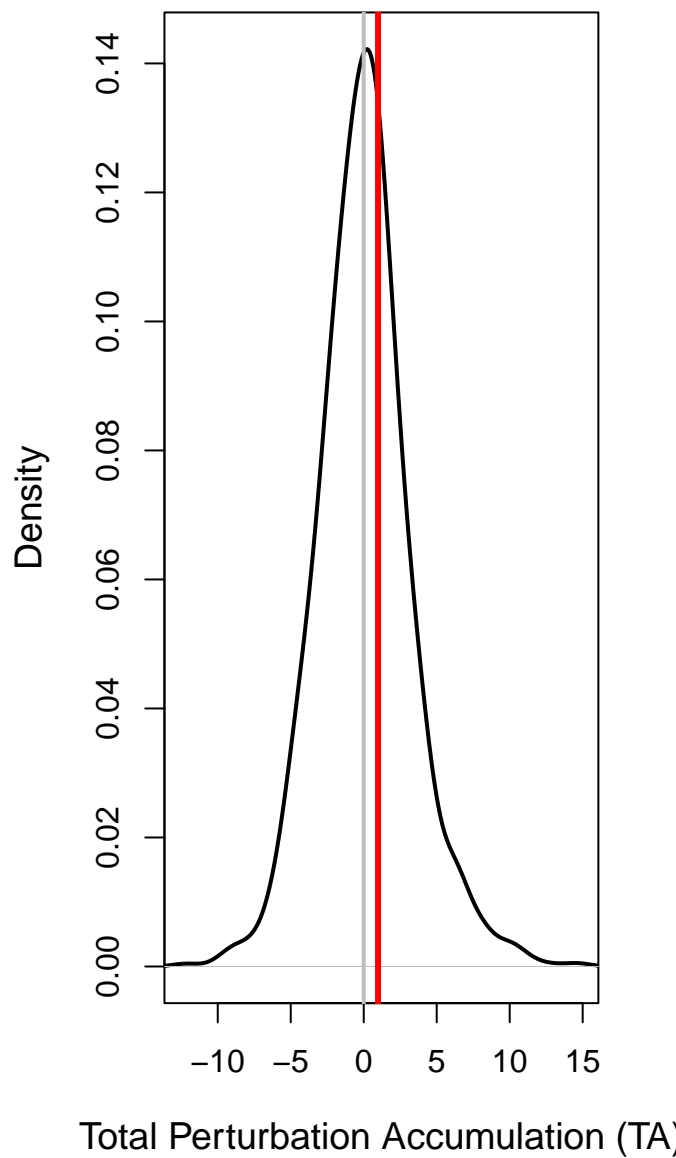
pathway ID=04950 P PERT=1



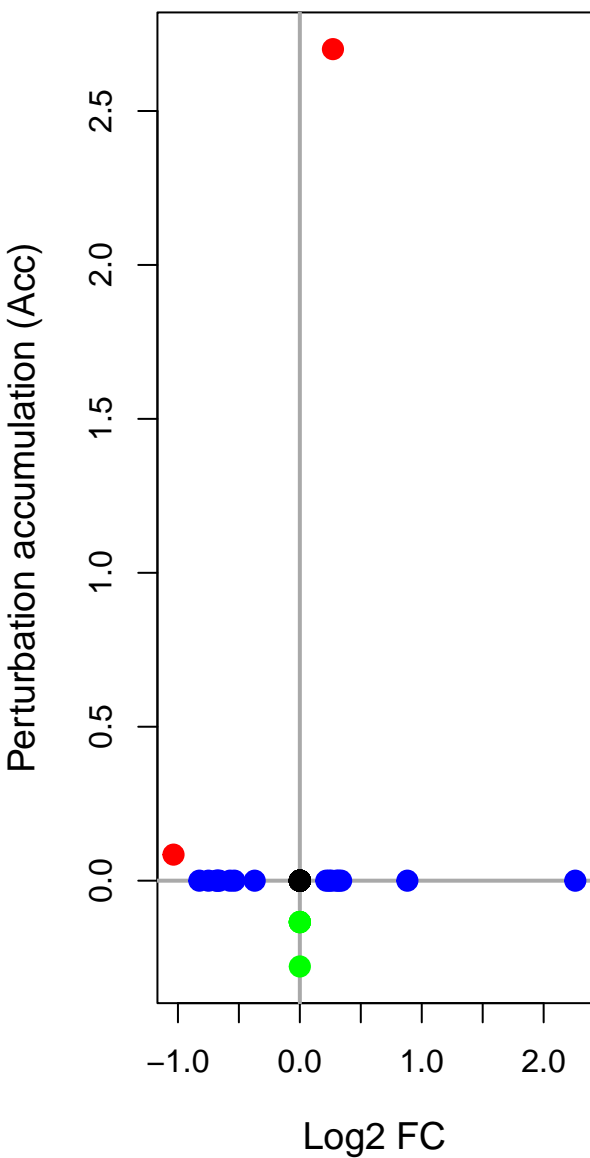
pathway ID=04960



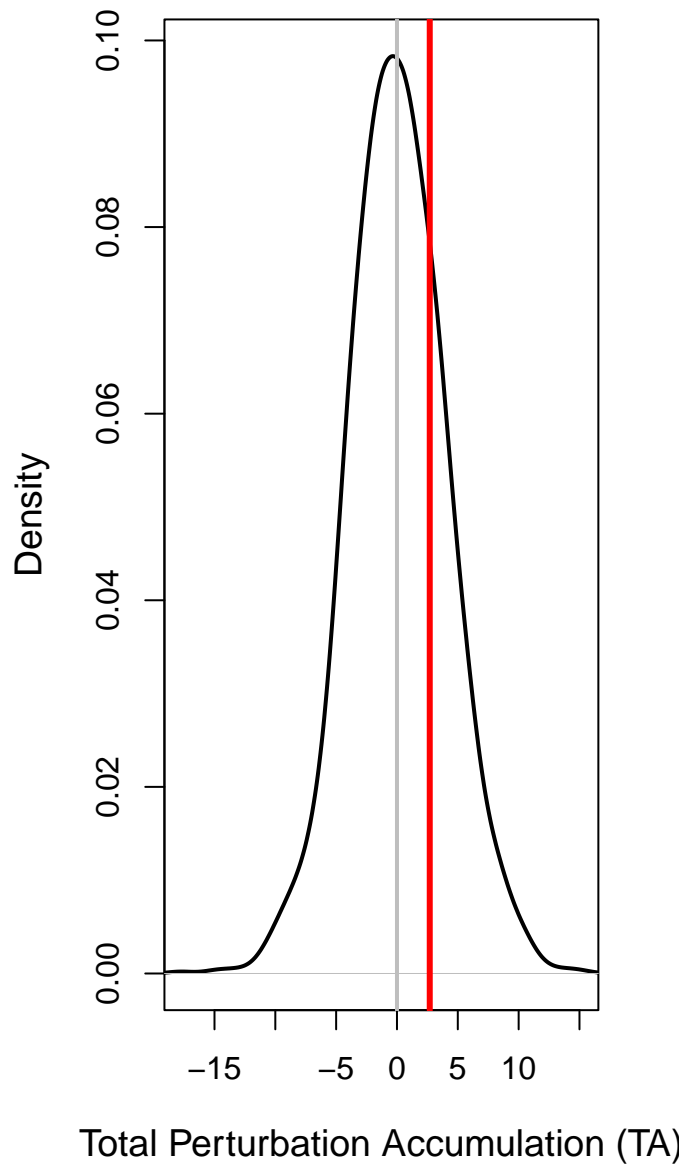
pathway ID=04960 P PERT=0.698



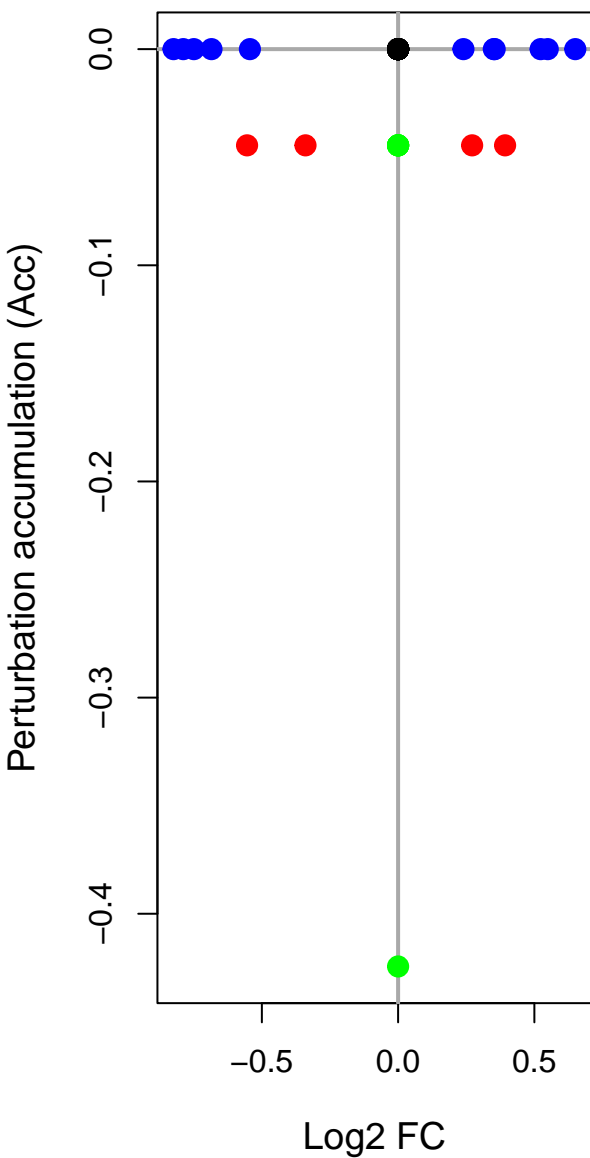
pathway ID=04961



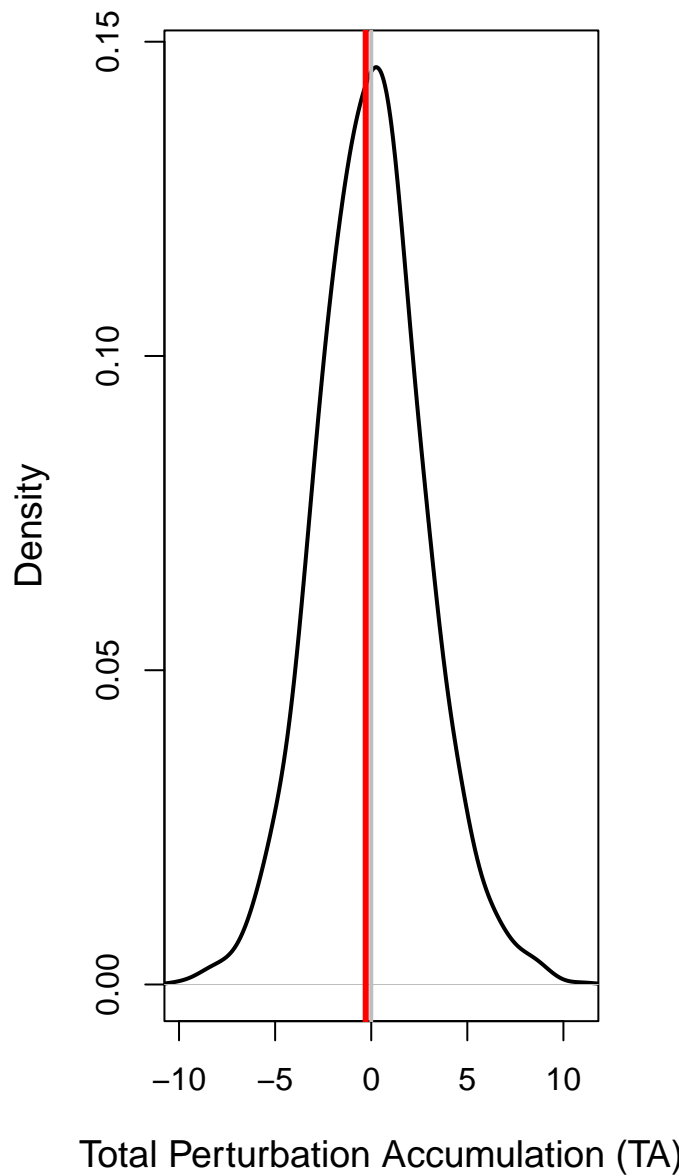
pathway ID=04961 P PERT=0.516



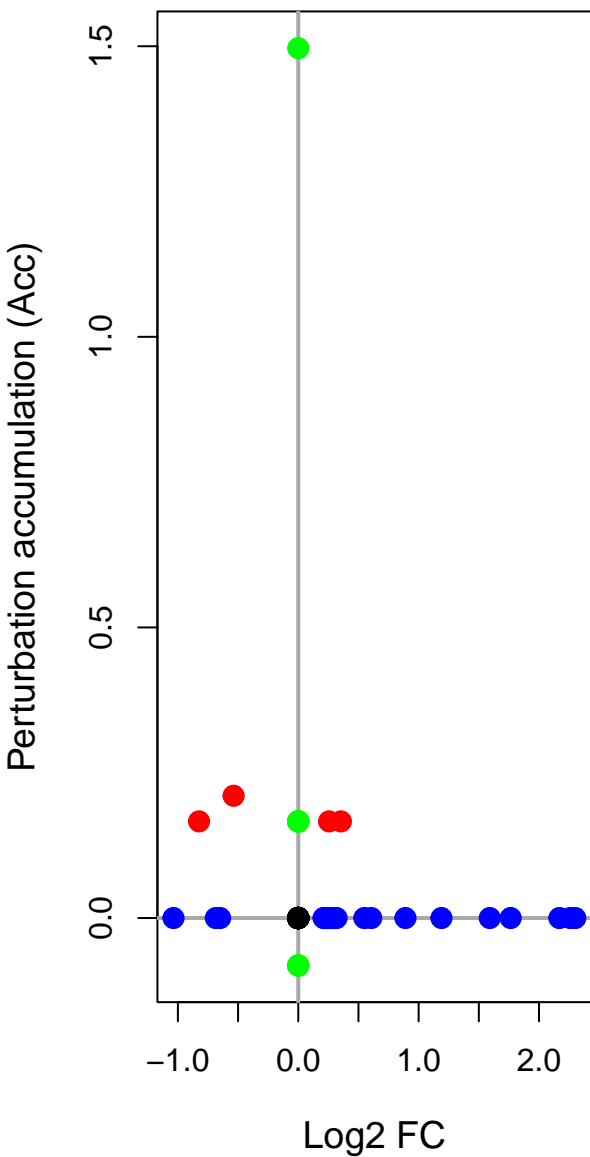
pathway ID=04962



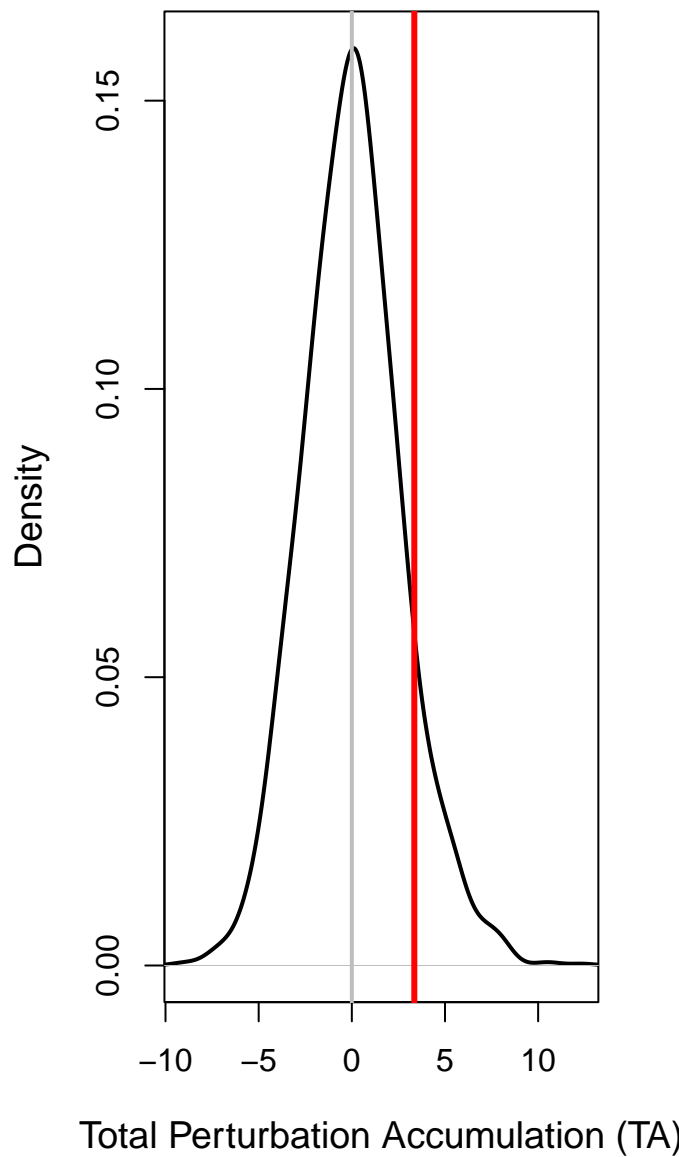
pathway ID=04962 P PERT=0.917



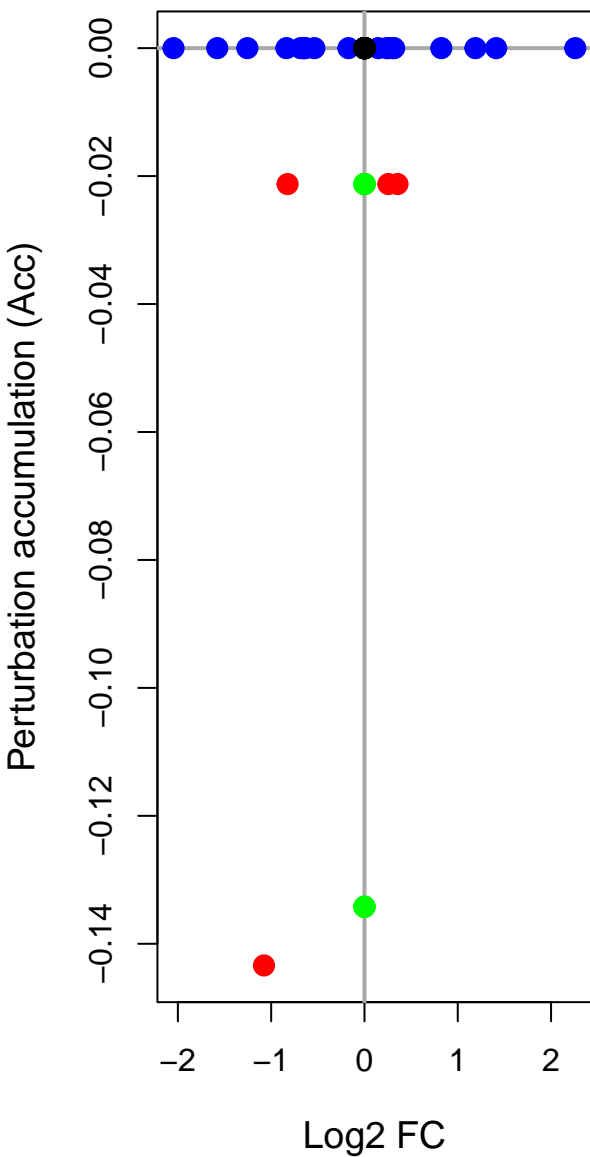
pathway ID=04970



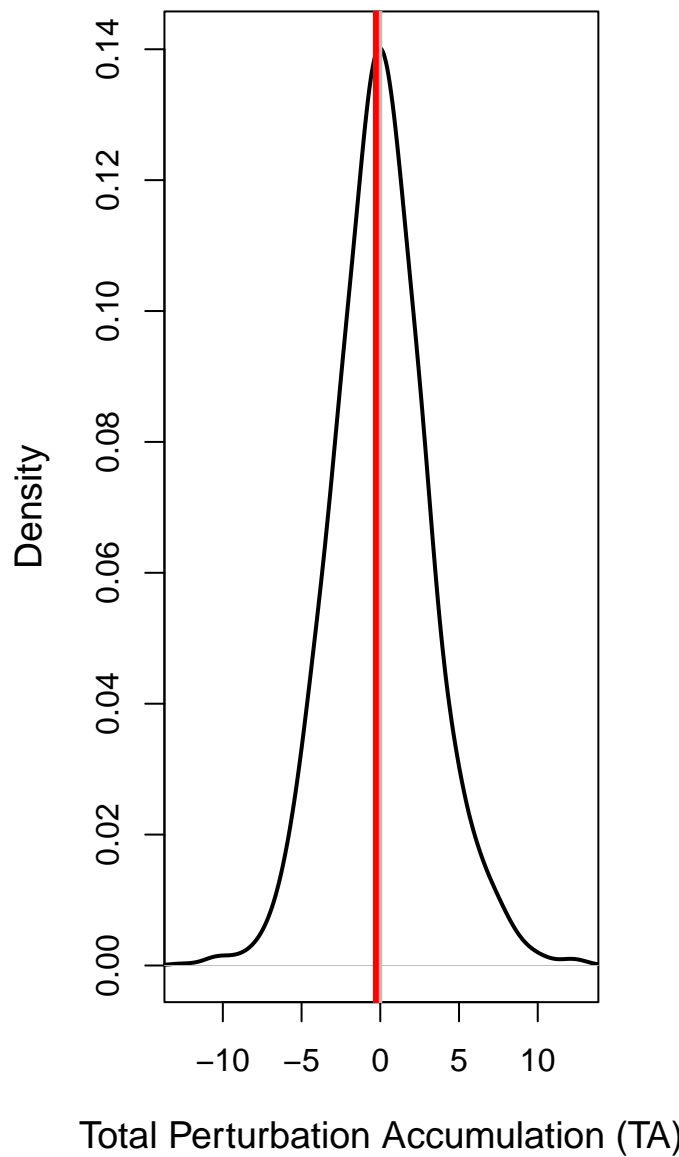
pathway ID=04970 P PERT=0.199



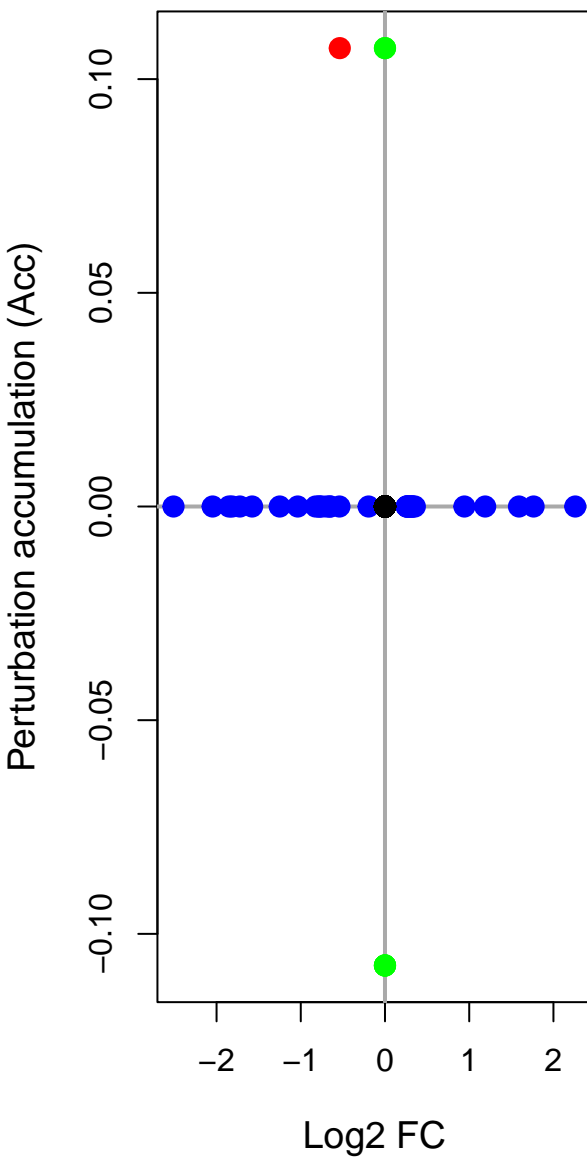
pathway ID=04971



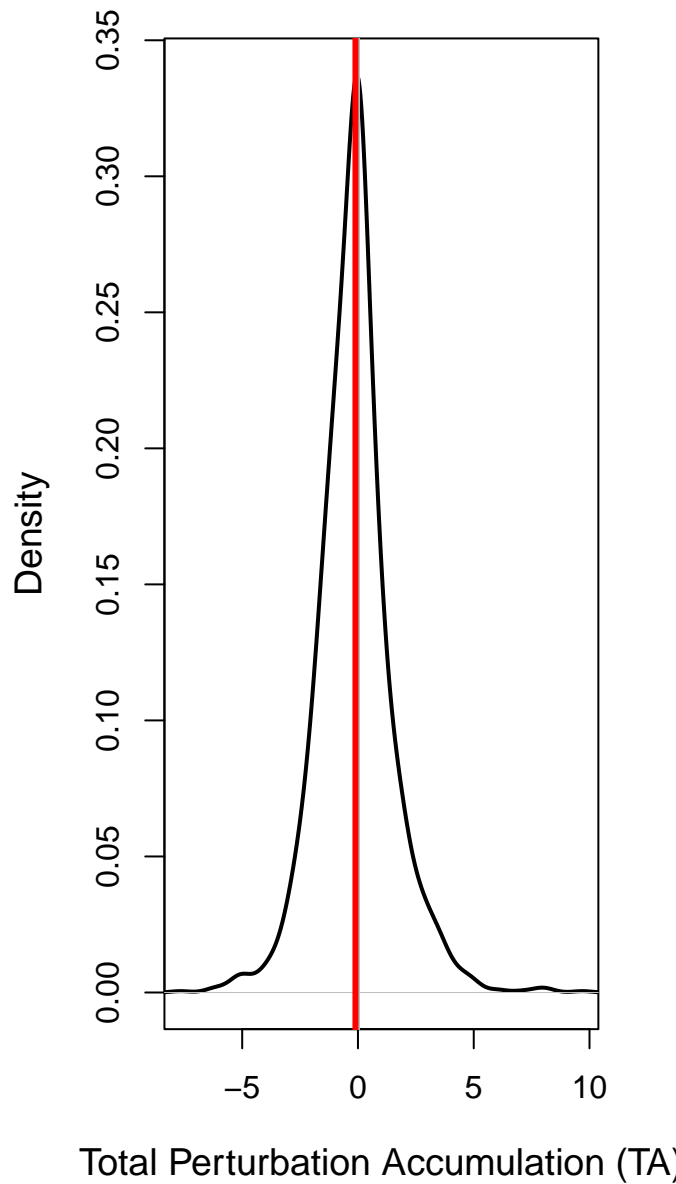
pathway ID=04971 P PERT=0.914



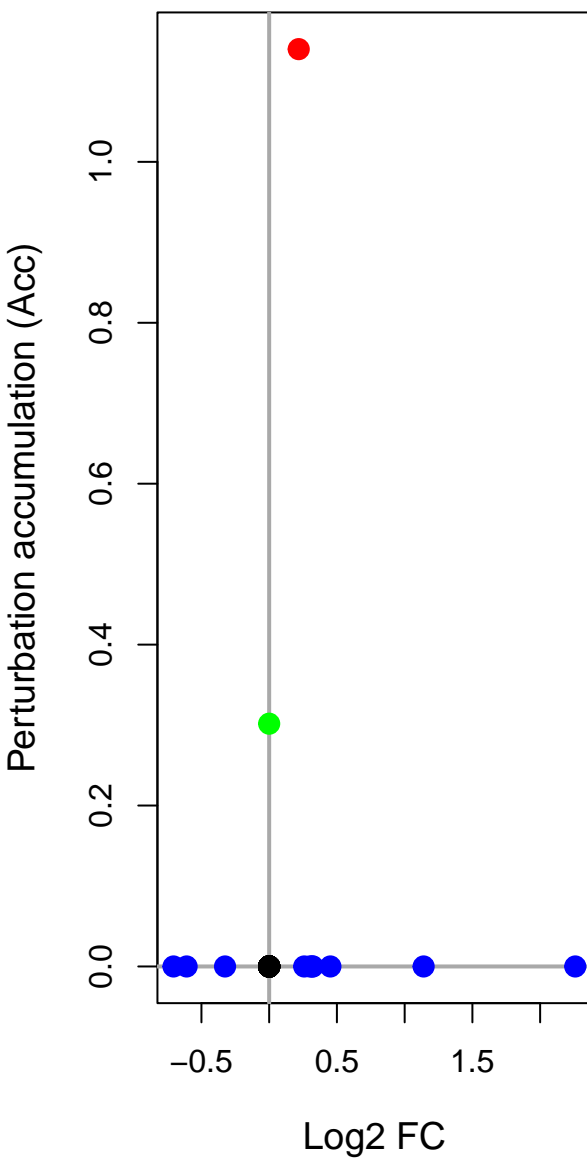
pathway ID=04972



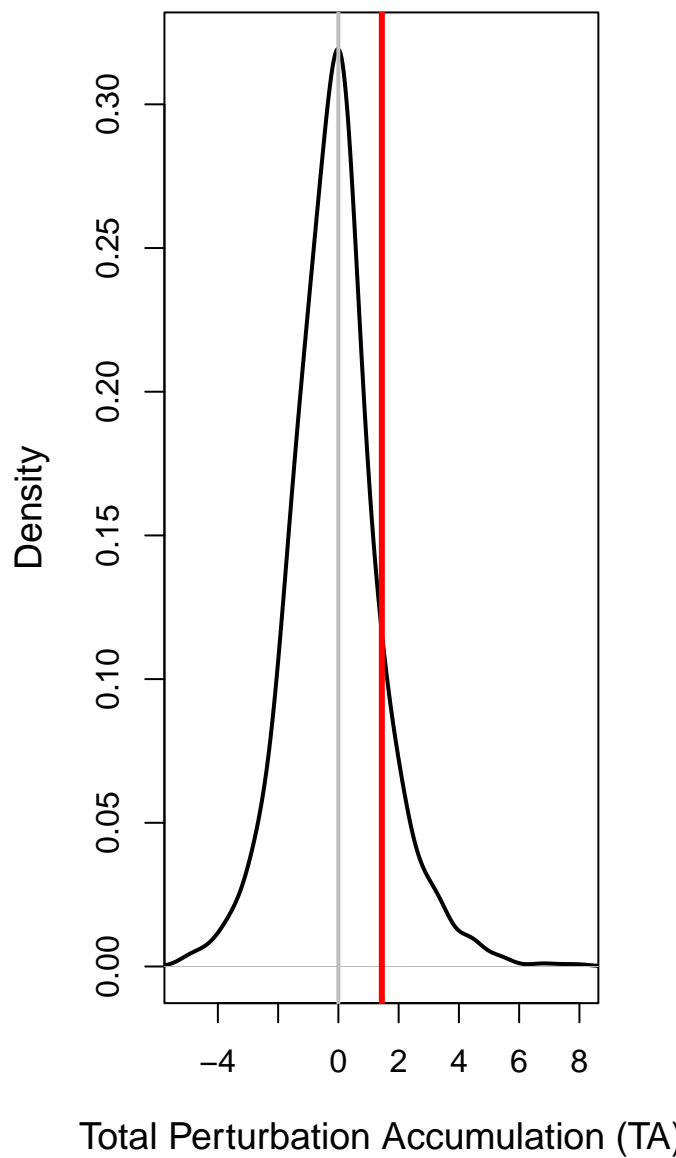
pathway ID=04972 P PERT=0.942



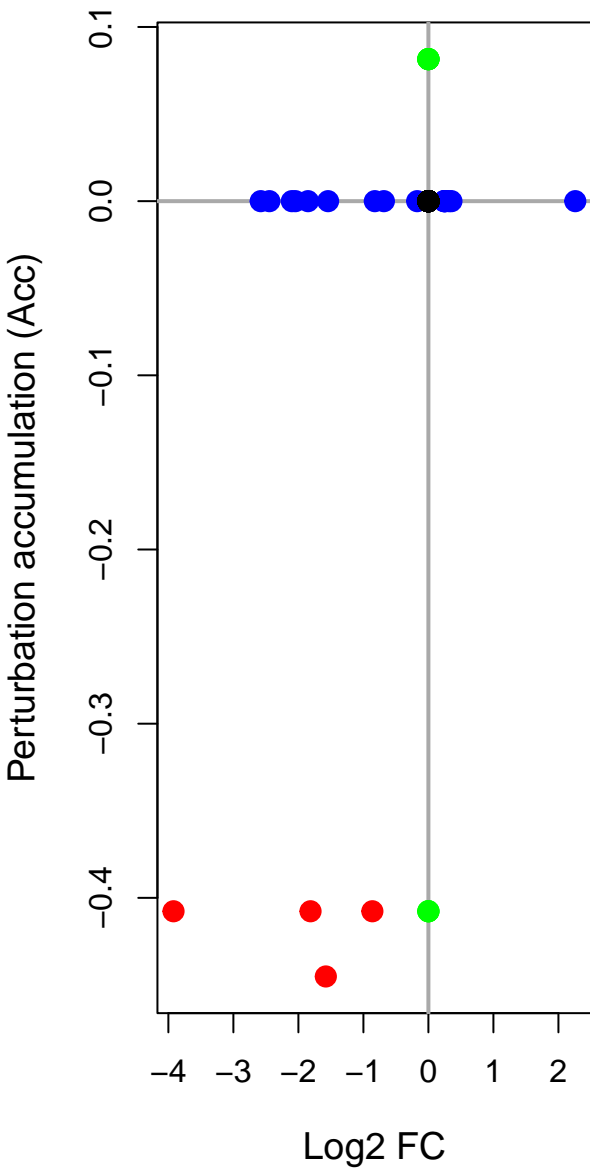
pathway ID=04973



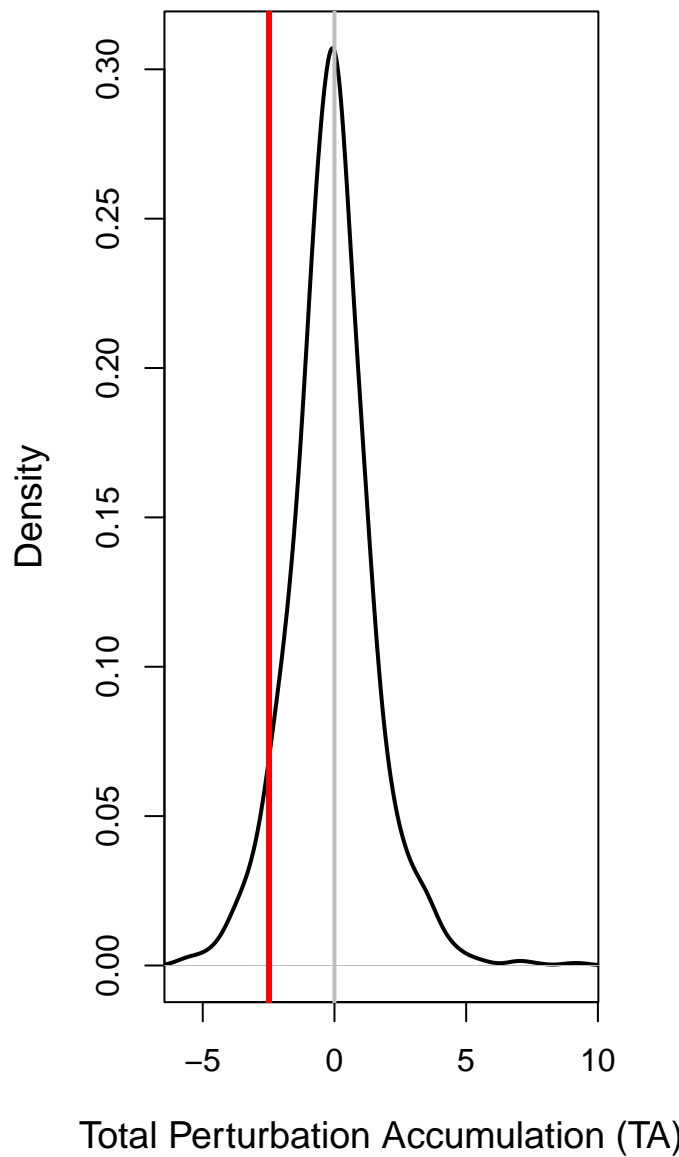
pathway ID=04973 P PERT=0.253



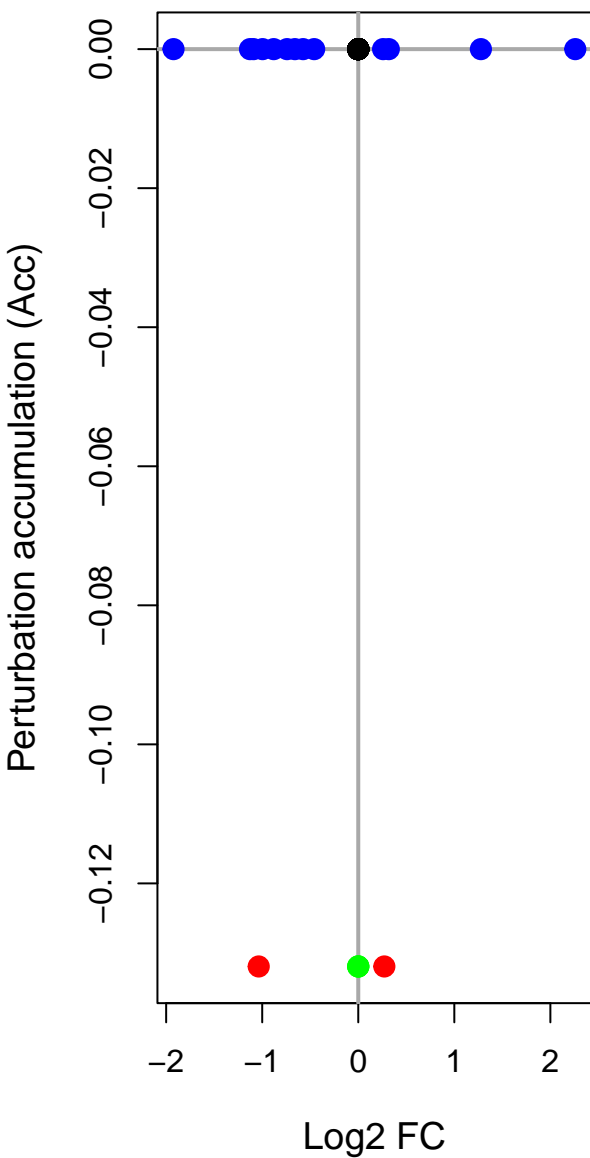
pathway ID=04976



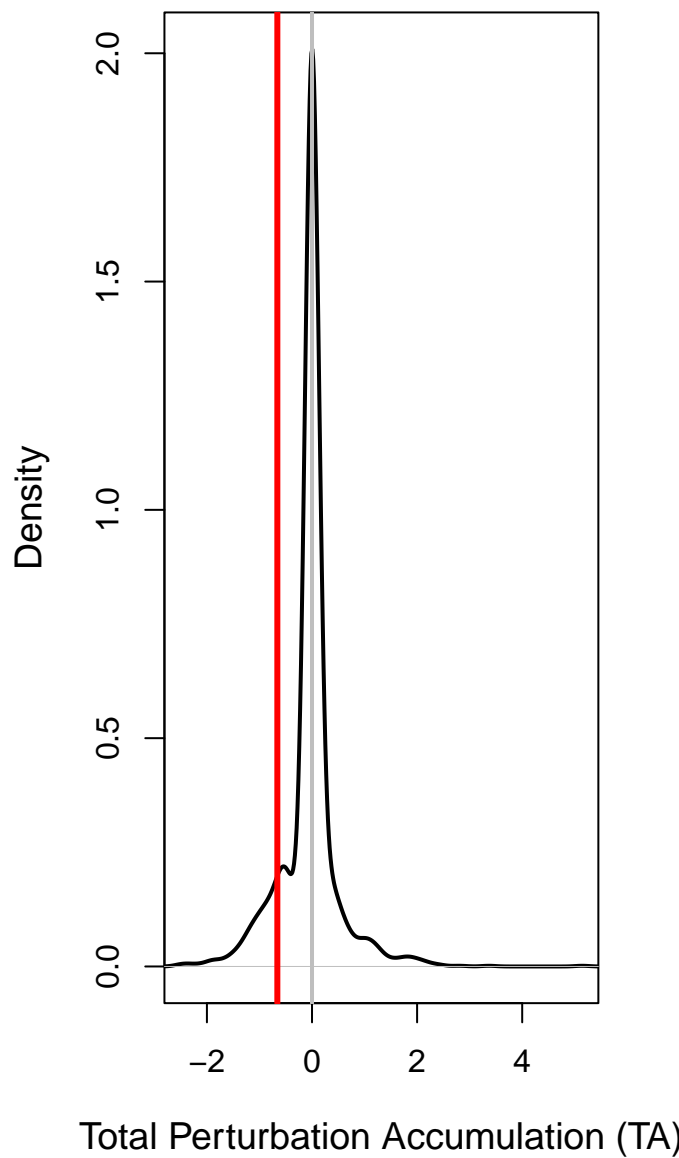
pathway ID=04976 P PERT=0.116



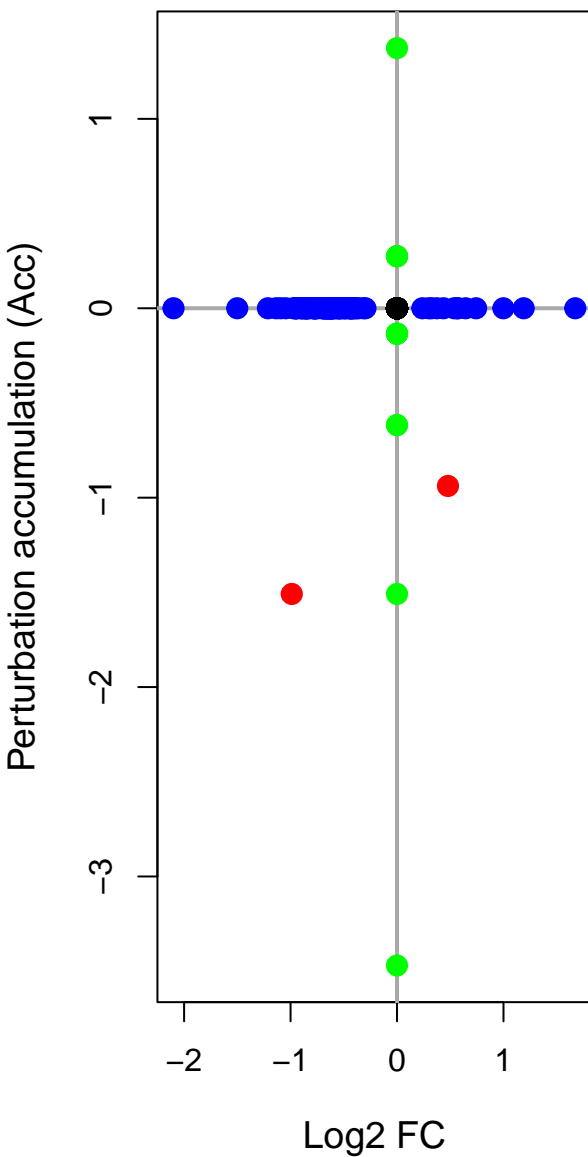
pathway ID=04978



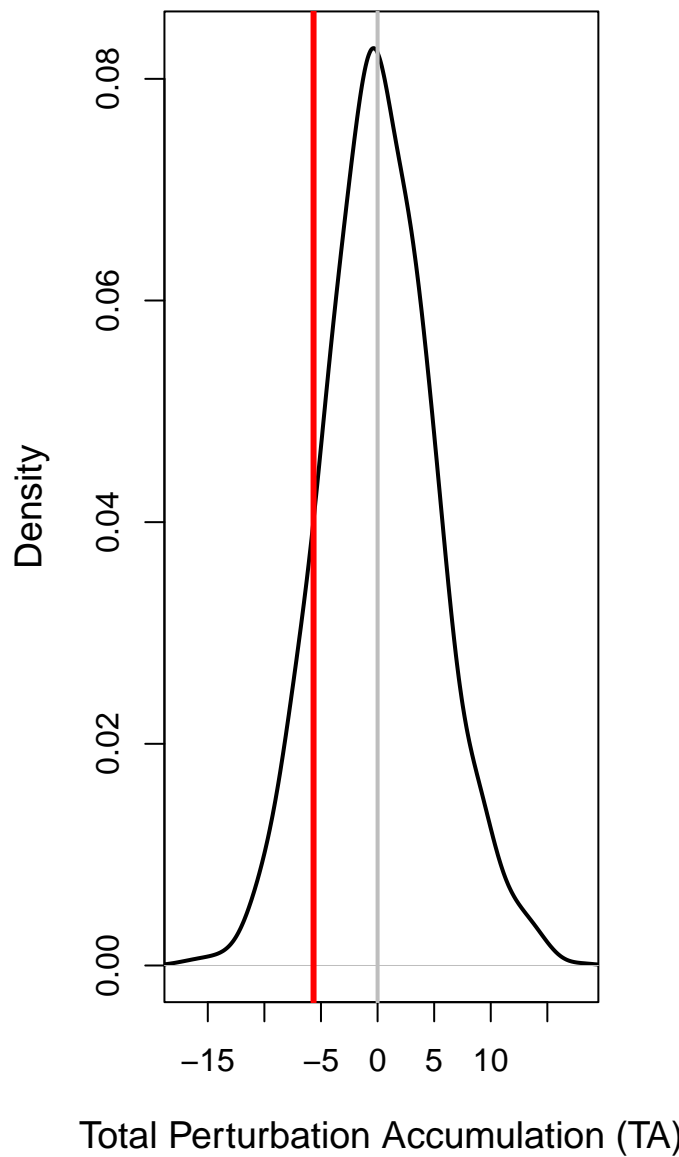
pathway ID=04978 P PERT=0.194



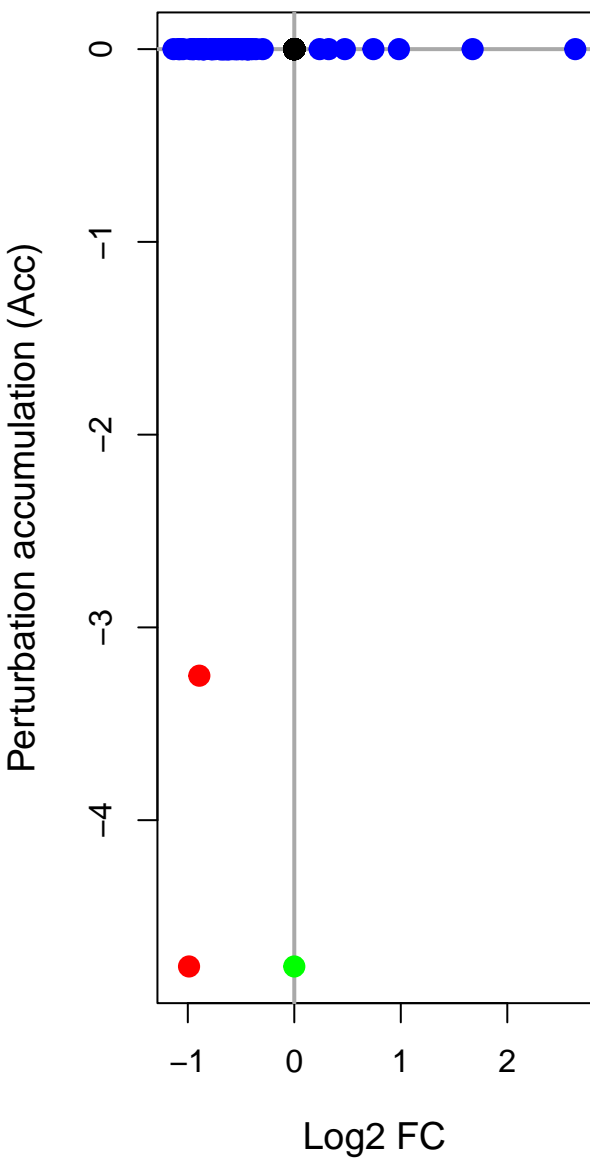
pathway ID=05010



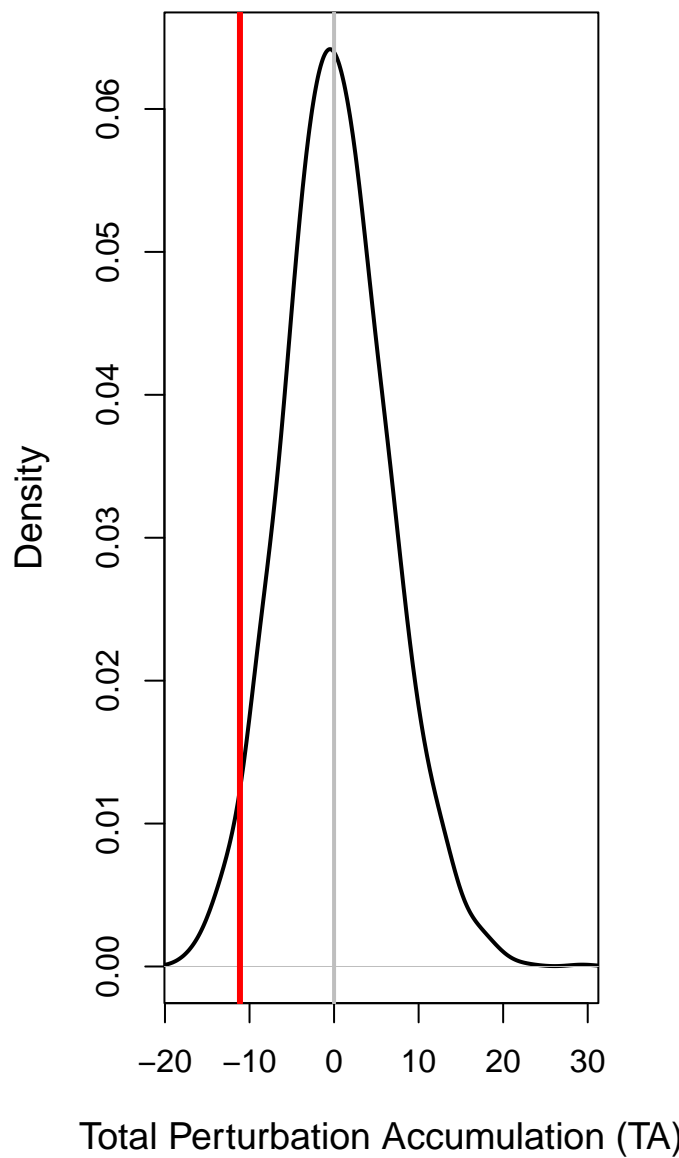
pathway ID=05010 P PERT=0.228



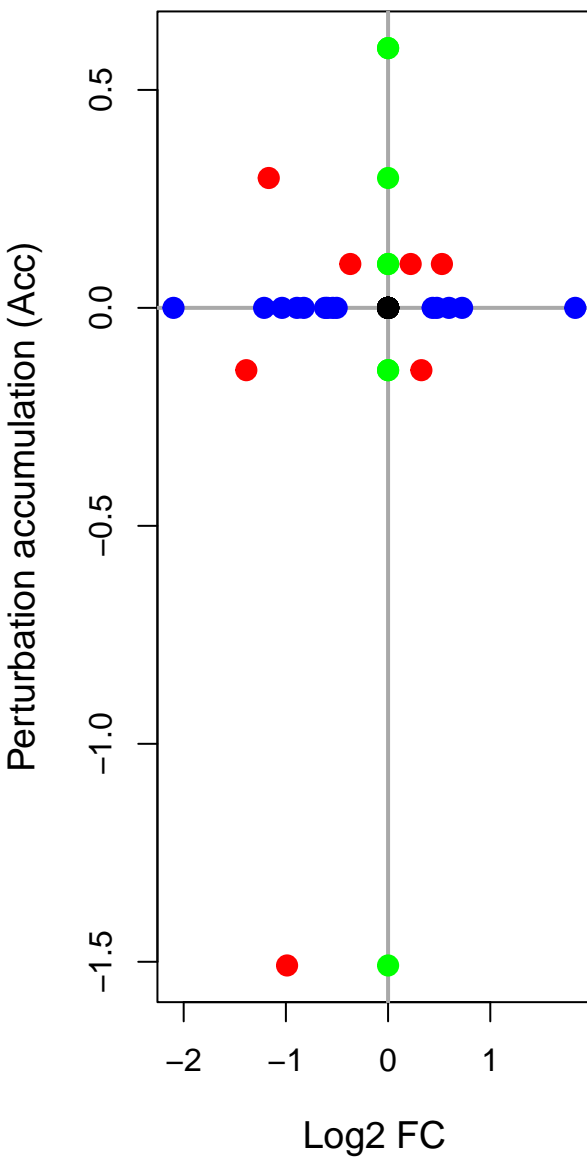
pathway ID=05012



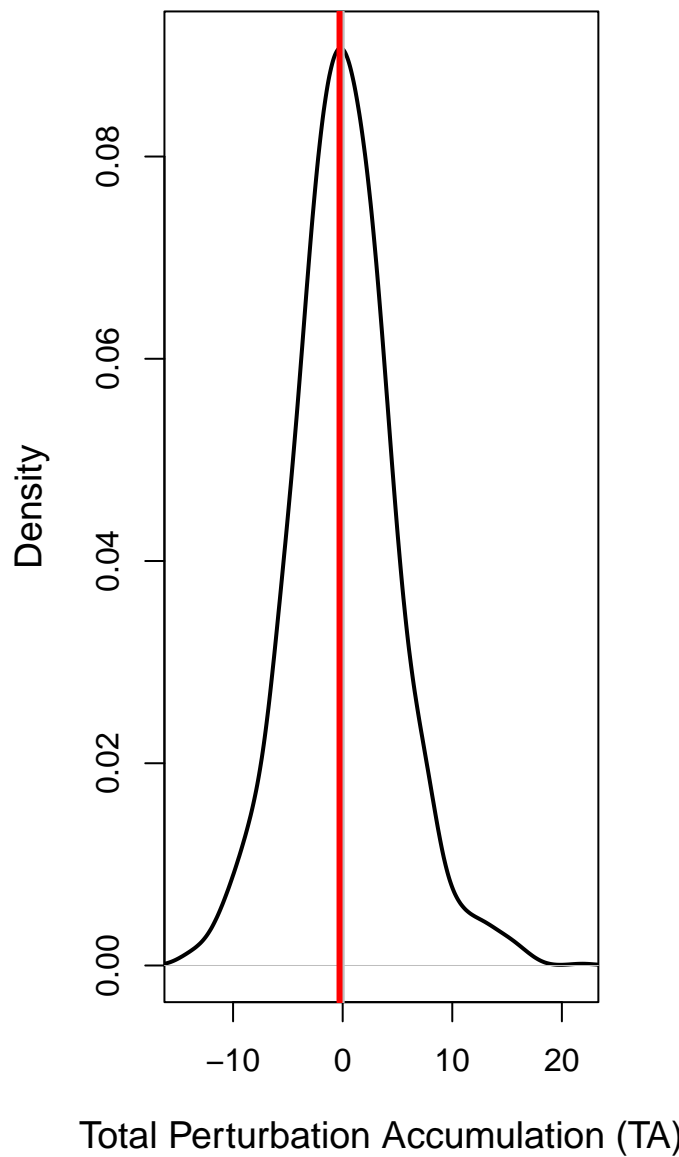
pathway ID=05012 P PERT=0.06



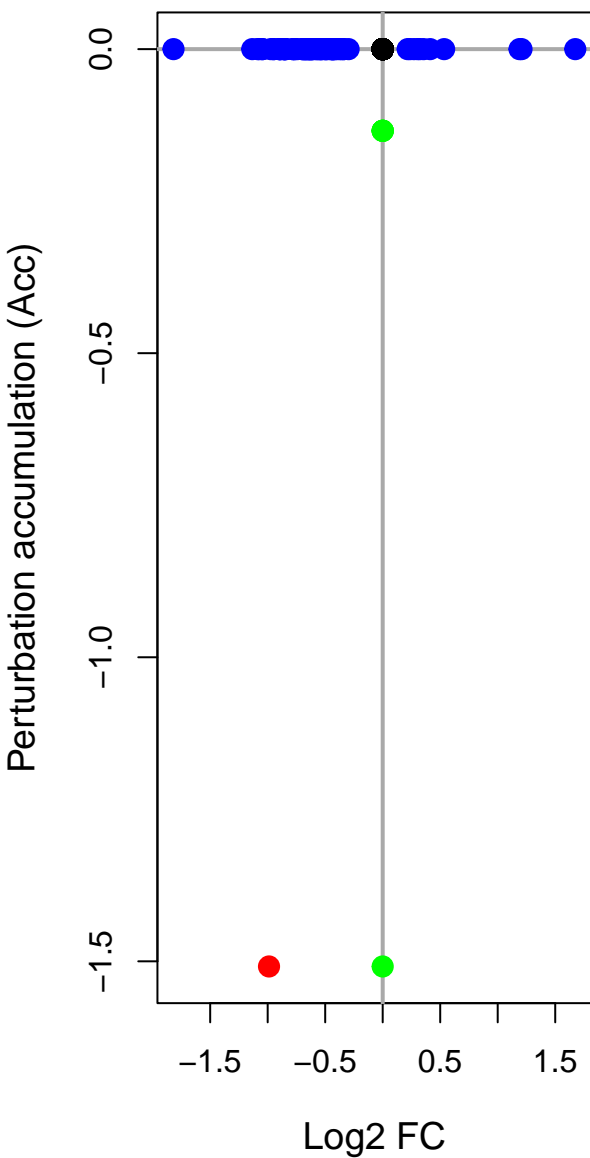
pathway ID=05014



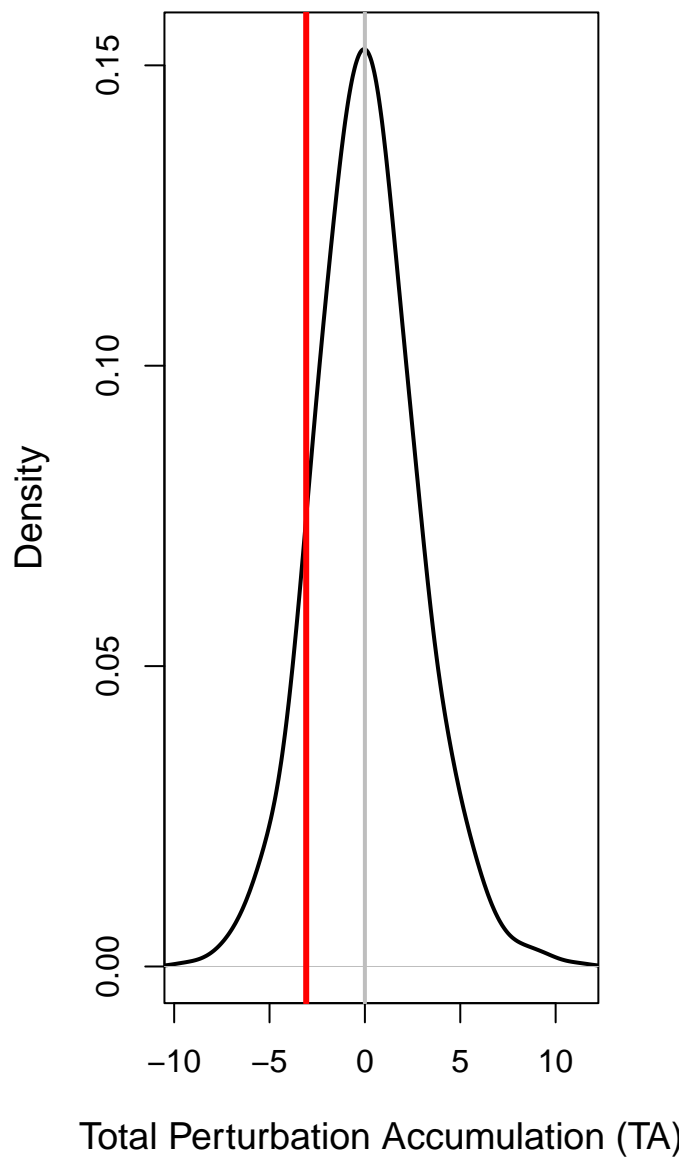
pathway ID=05014 P PERT=0.94



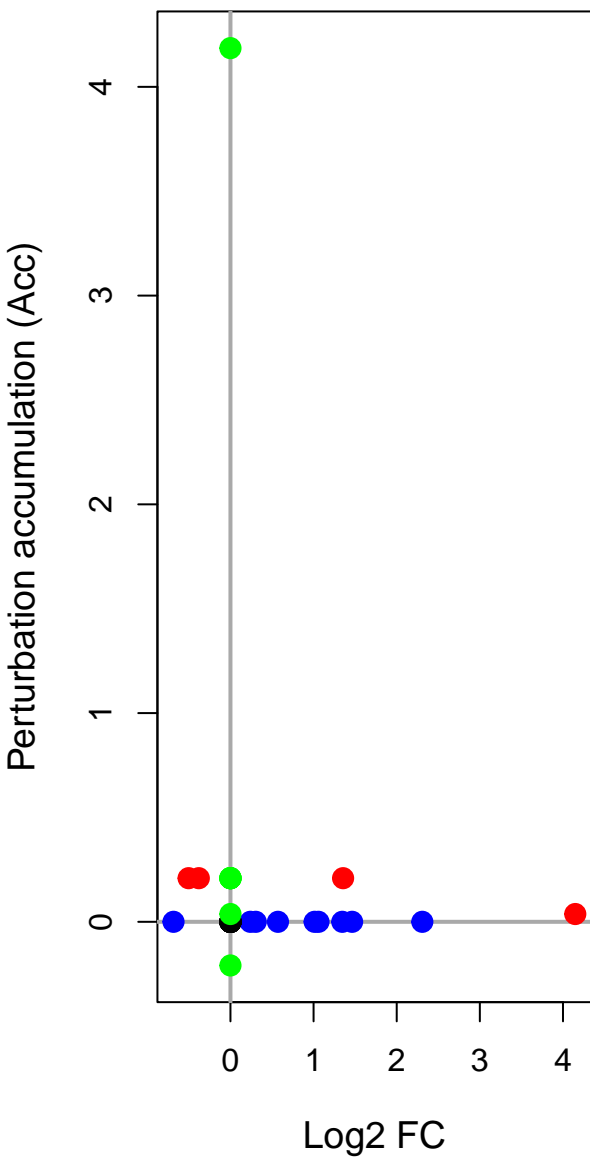
pathway ID=05016



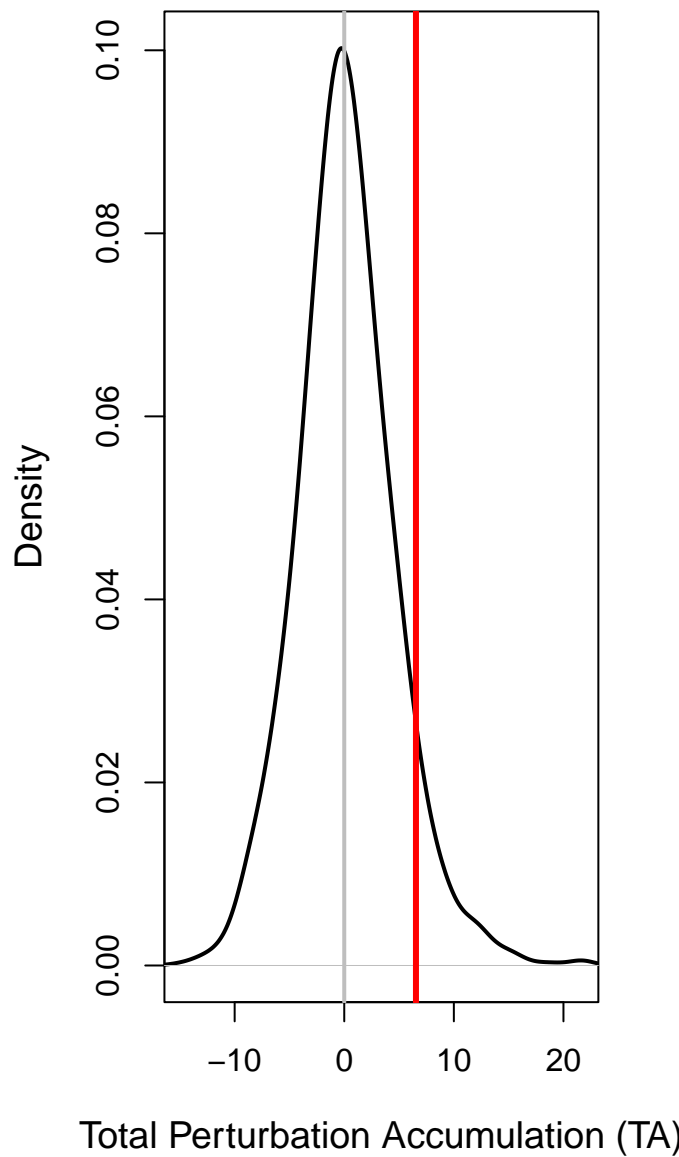
pathway ID=05016 P PERT=0.22



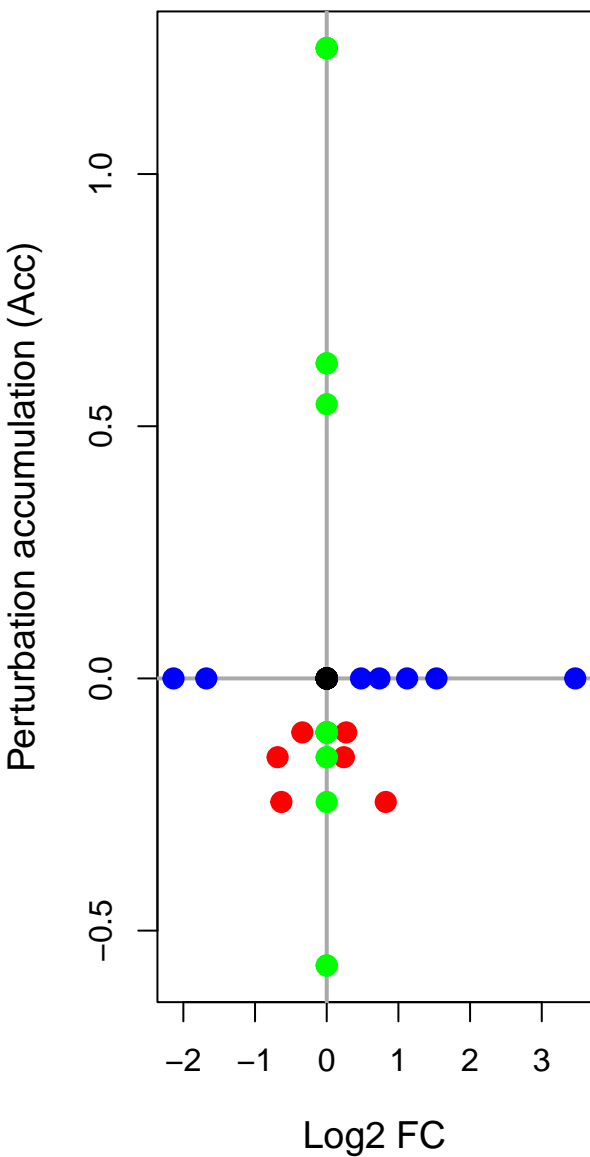
pathway ID=05020



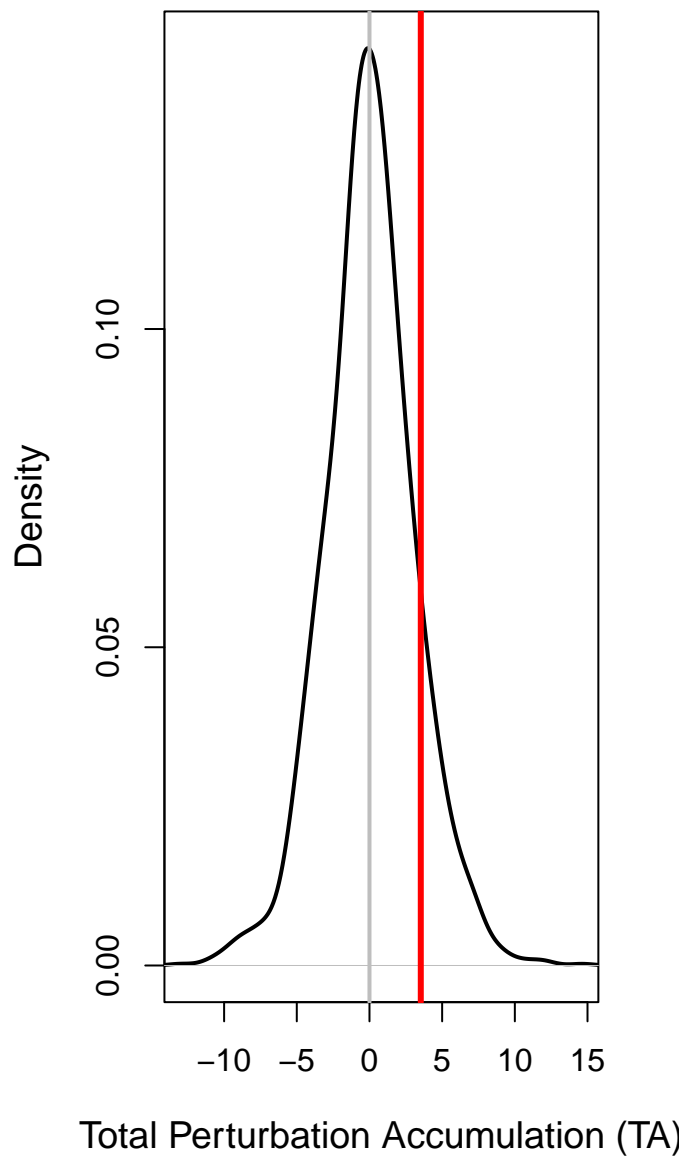
pathway ID=05020 P PERT=0.145



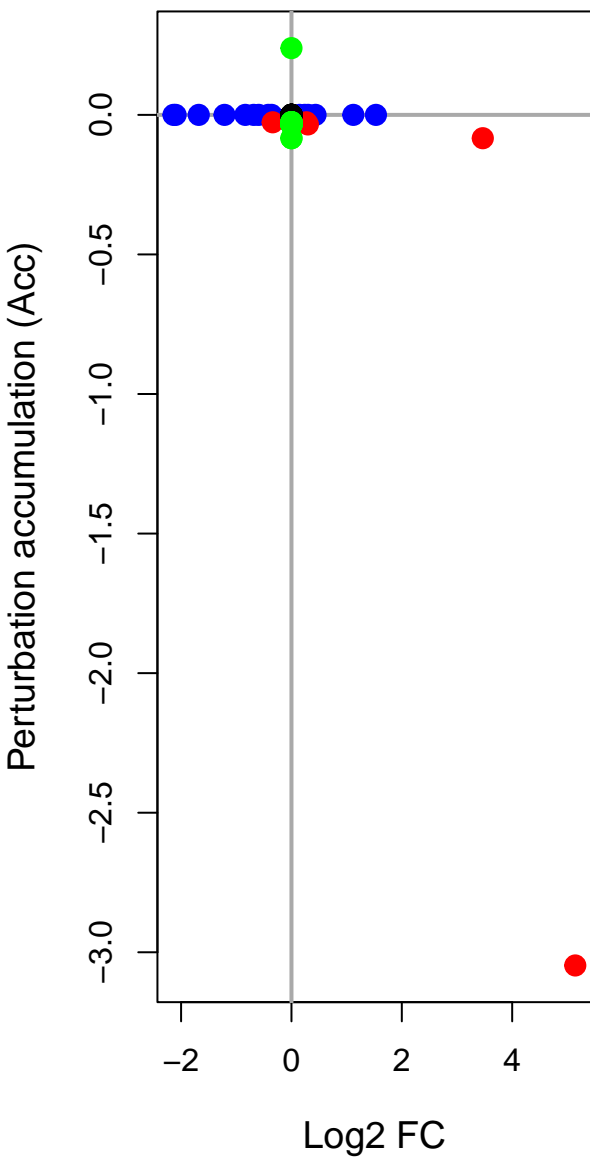
pathway ID=05030



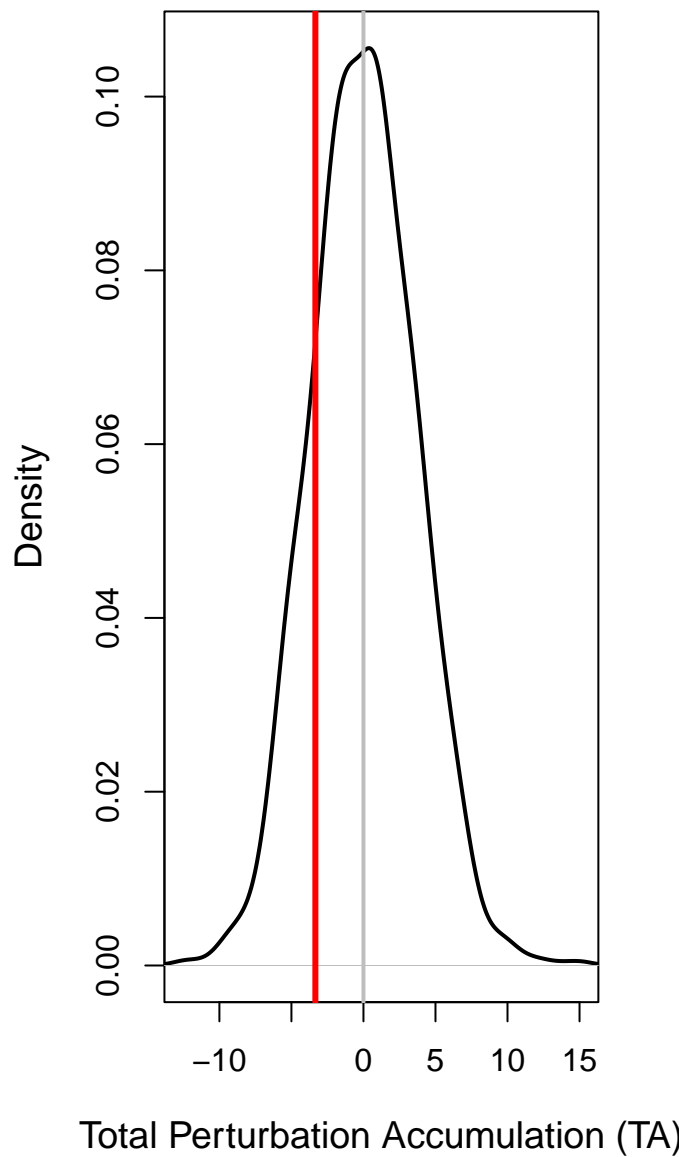
pathway ID=05030 P PERT=0.241



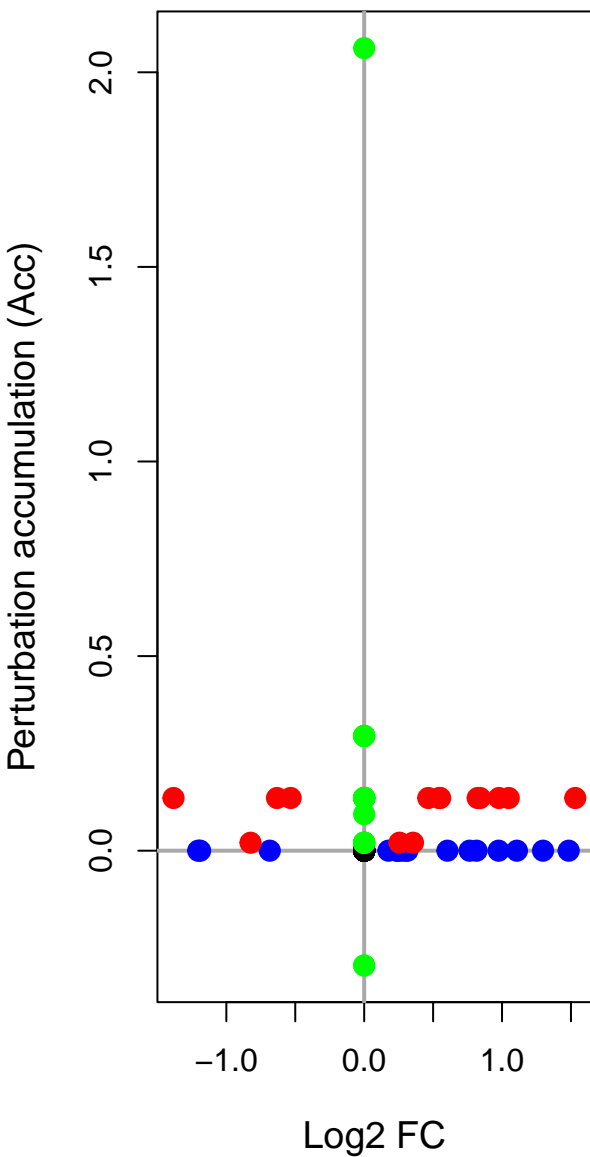
pathway ID=05031



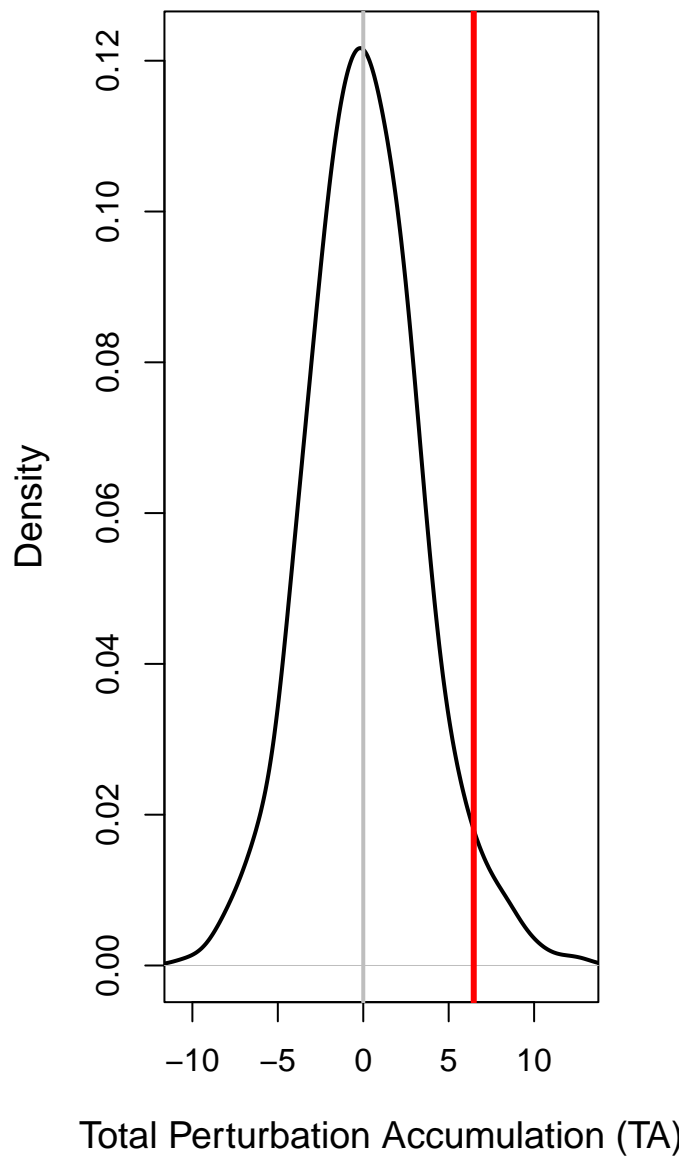
pathway ID=05031 P PERT=0.343



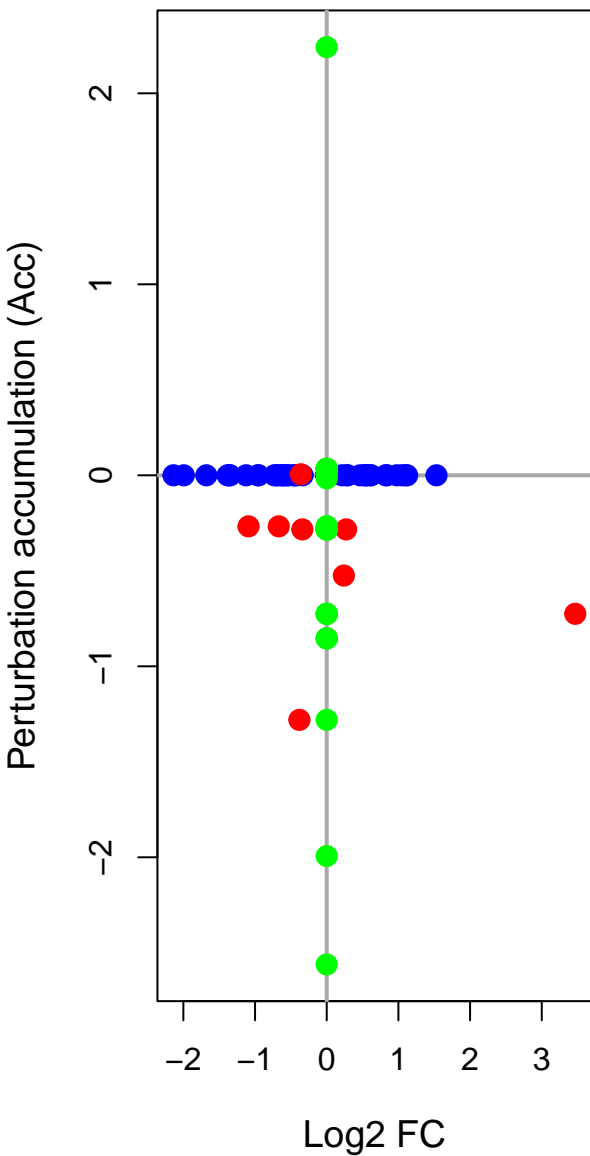
pathway ID=05032



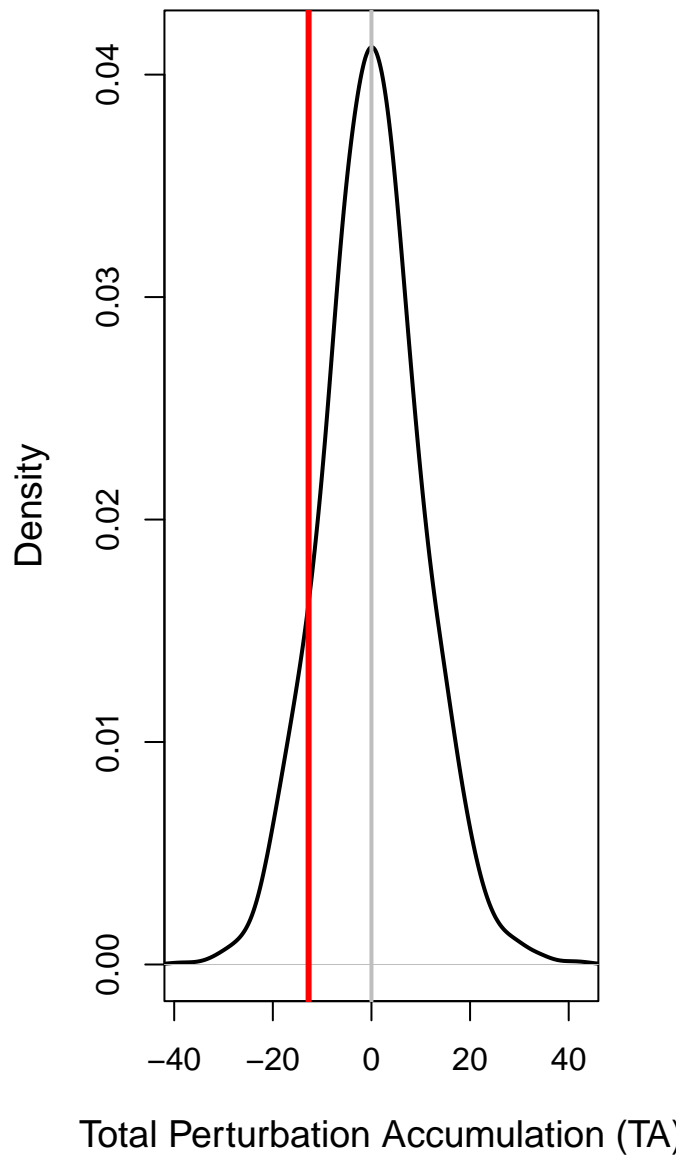
pathway ID=05032 P PERT=0.077



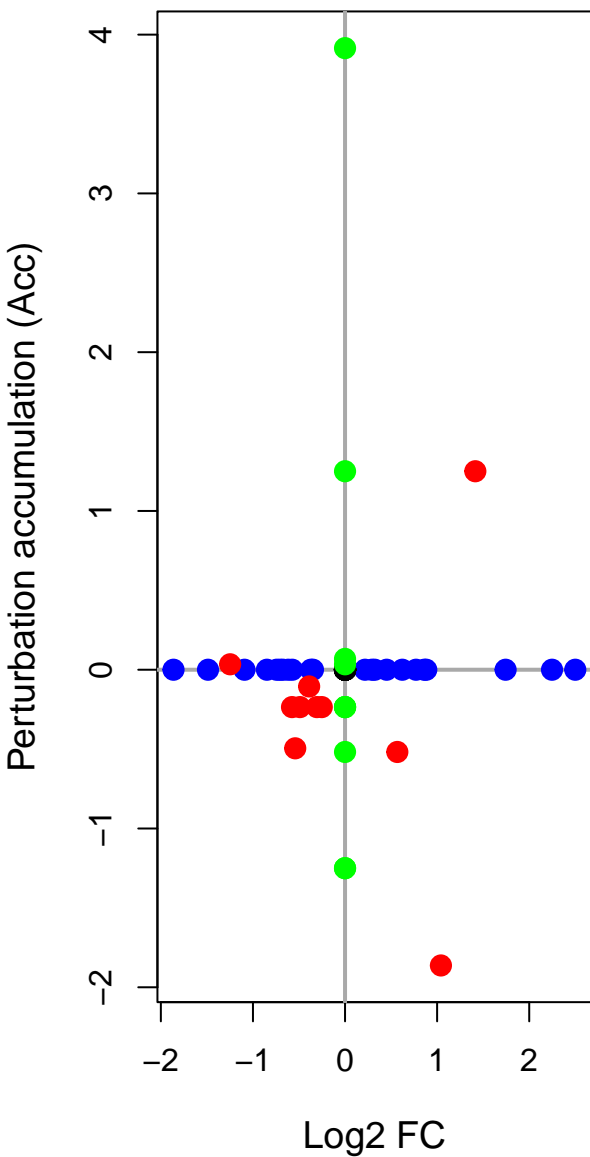
pathway ID=05034



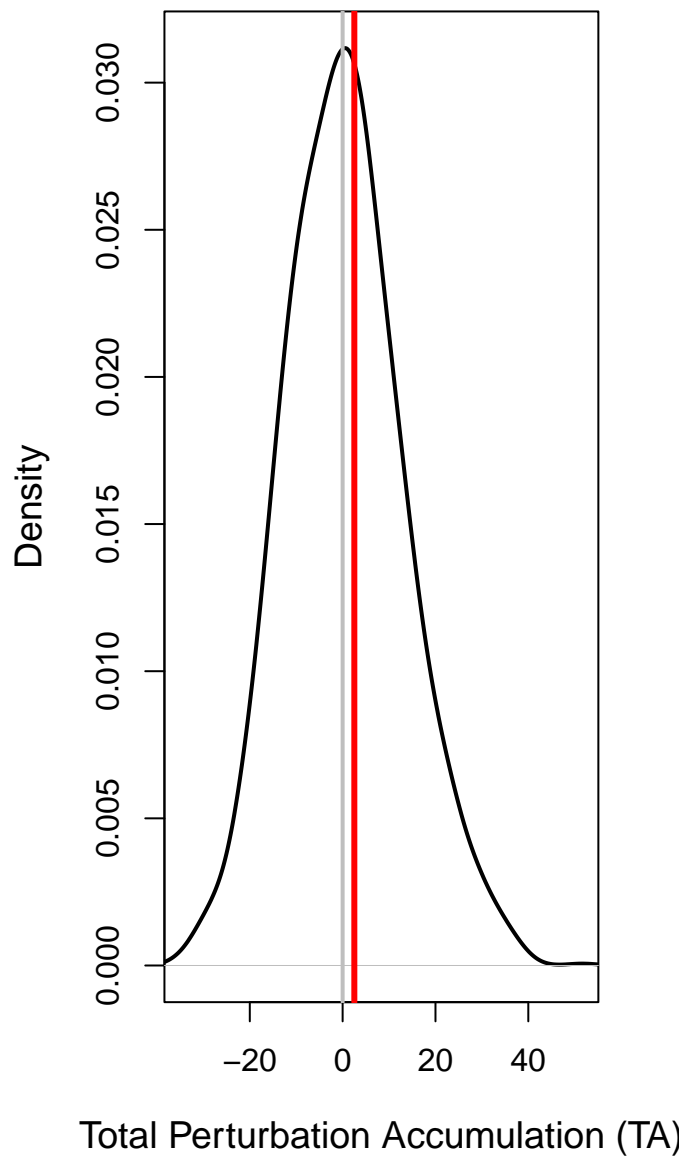
pathway ID=05034 P PERT=0.199



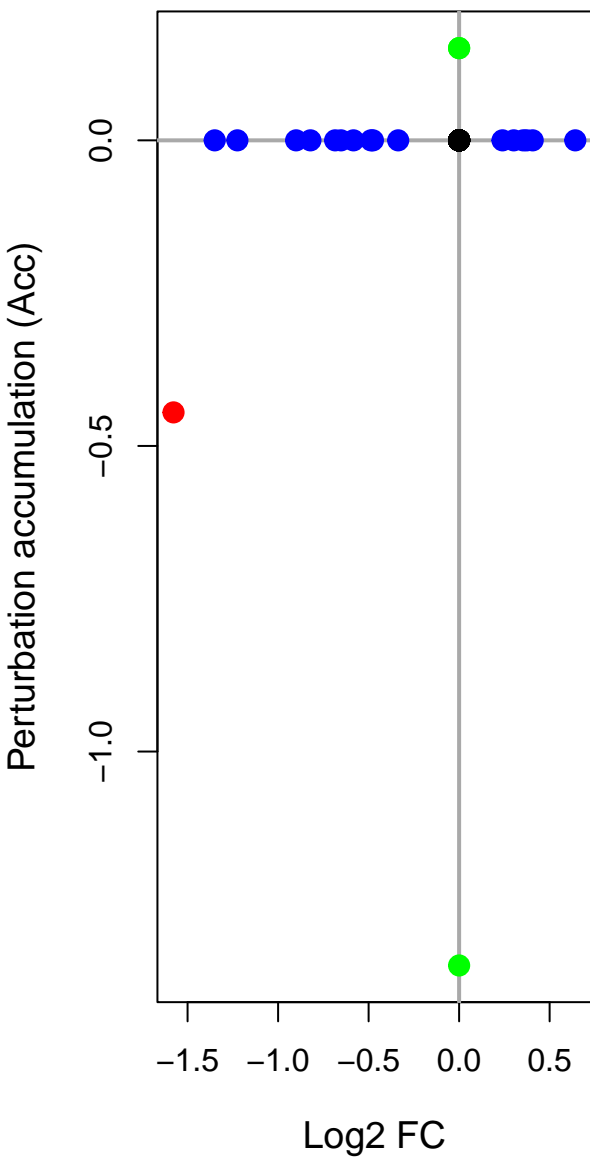
pathway ID=05100



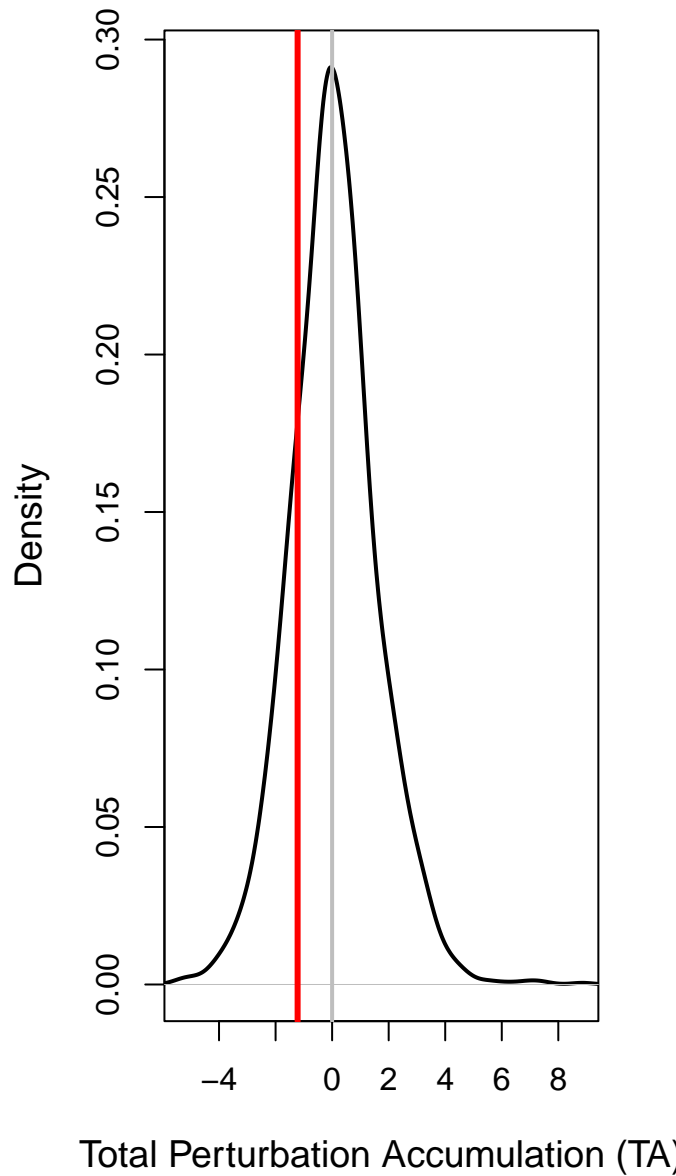
pathway ID=05100 P PERT=0.846



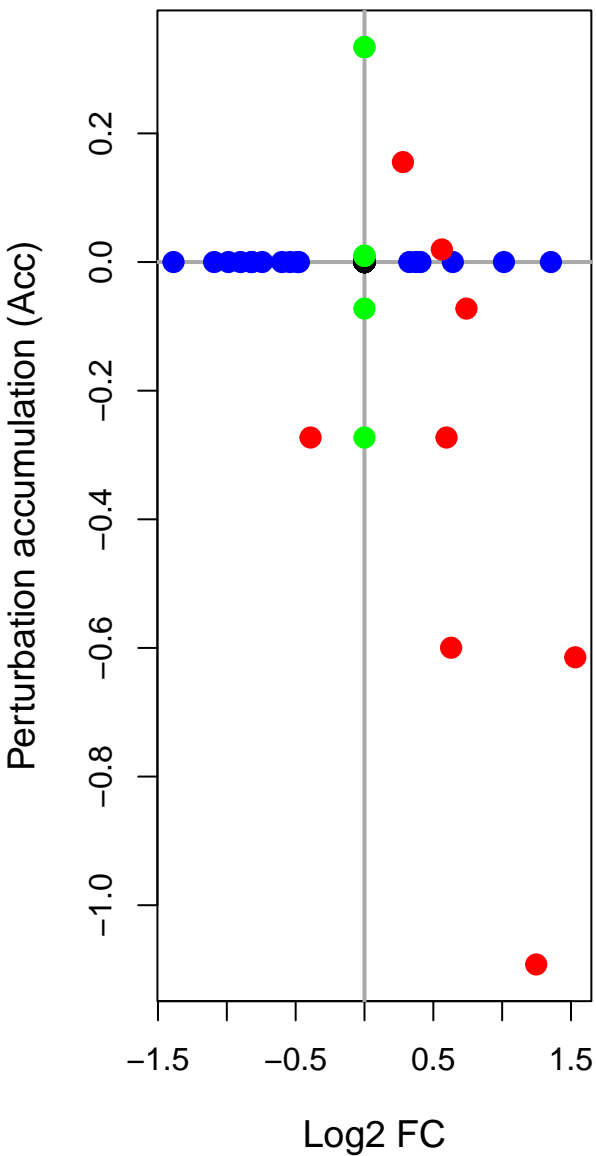
pathway ID=05110



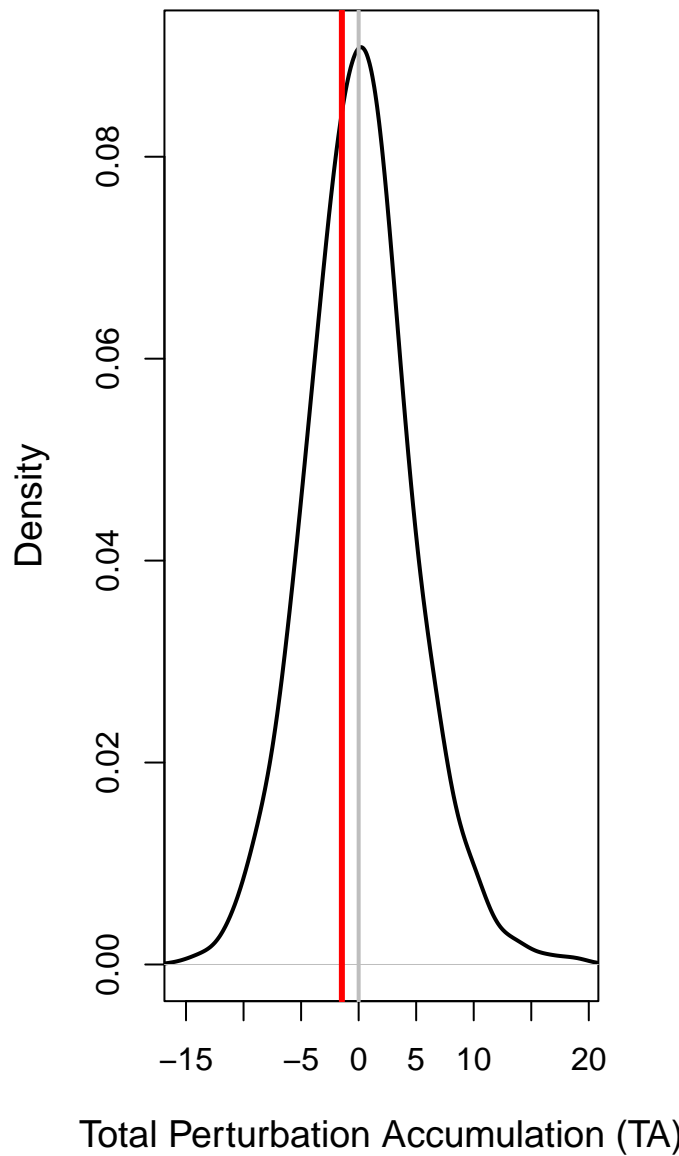
pathway ID=05110 P PERT=0.372



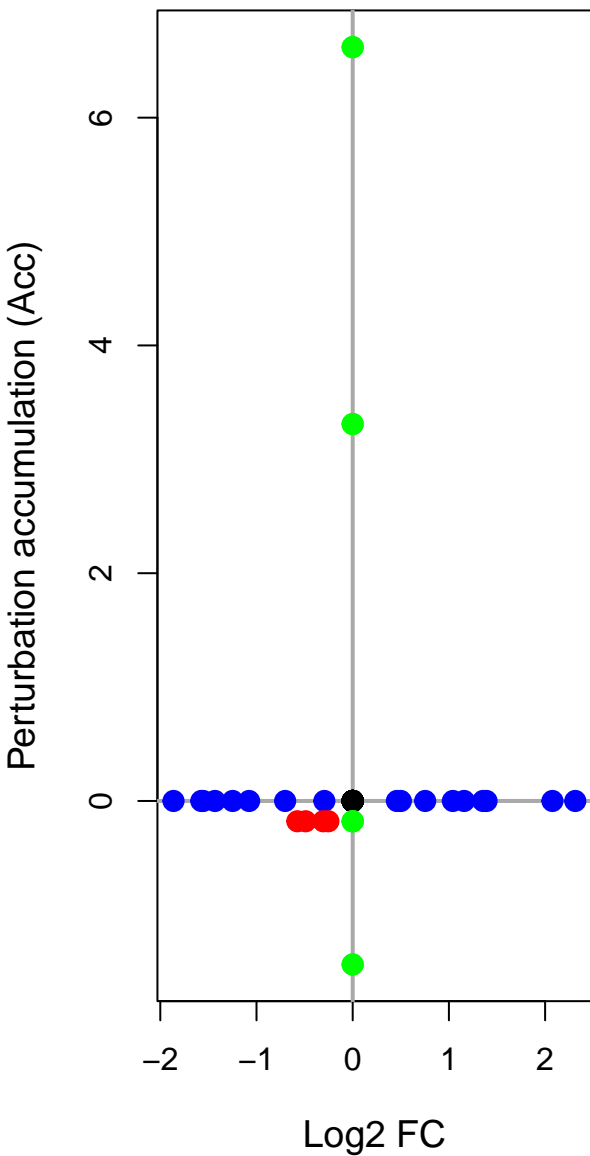
pathway ID=05120



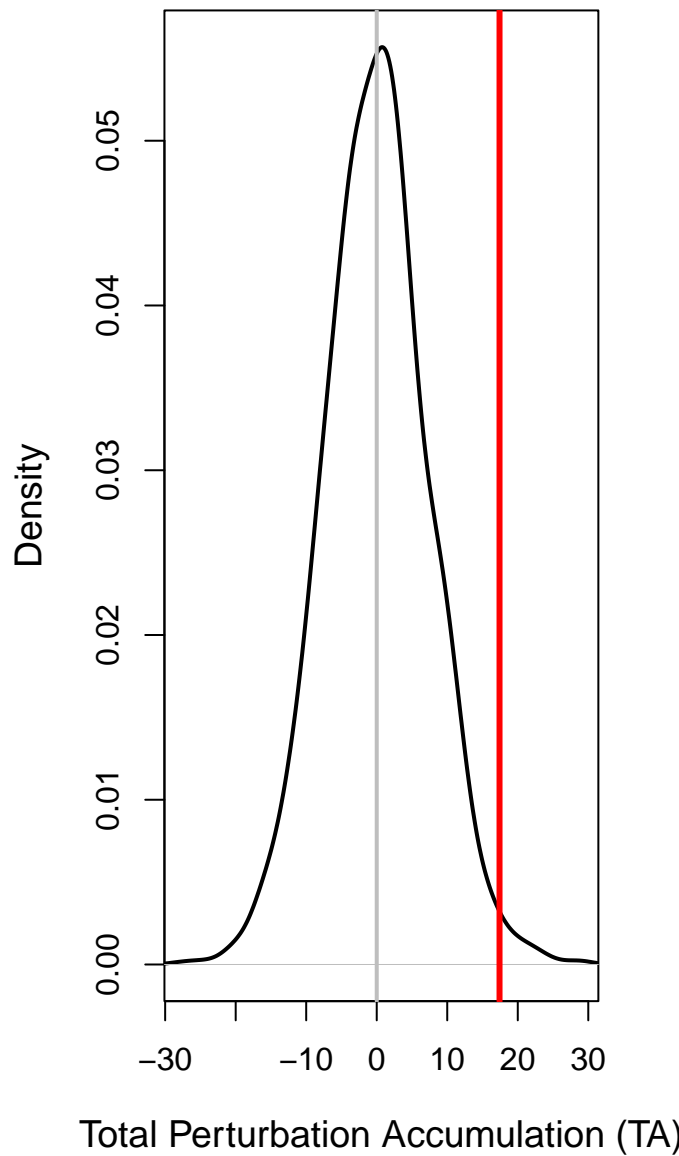
pathway ID=05120 P PERT=0.734



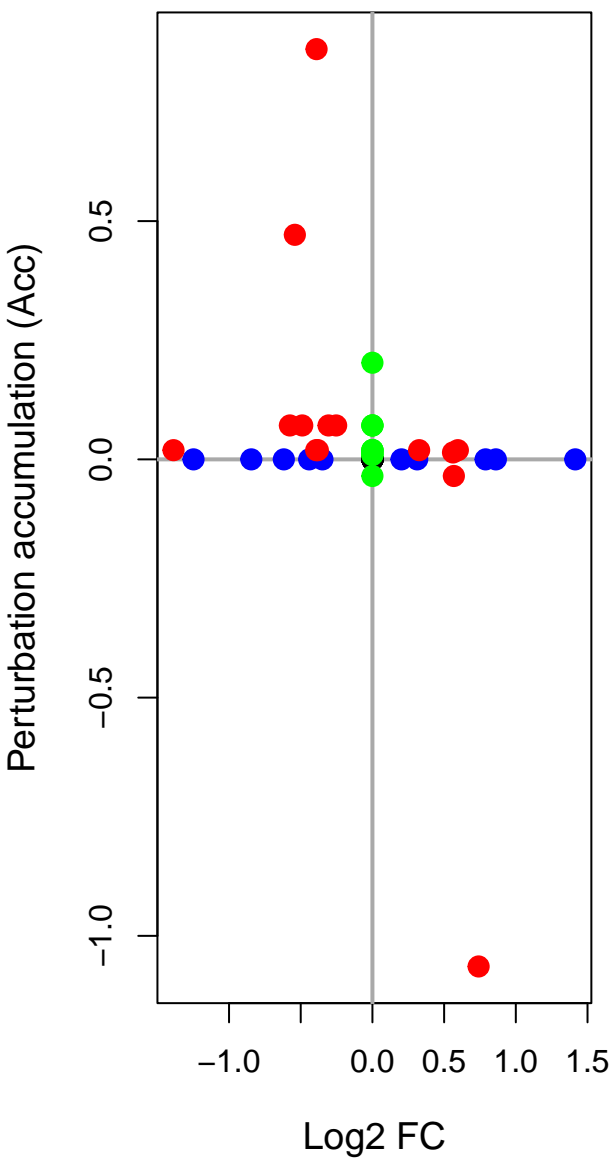
pathway ID=05130



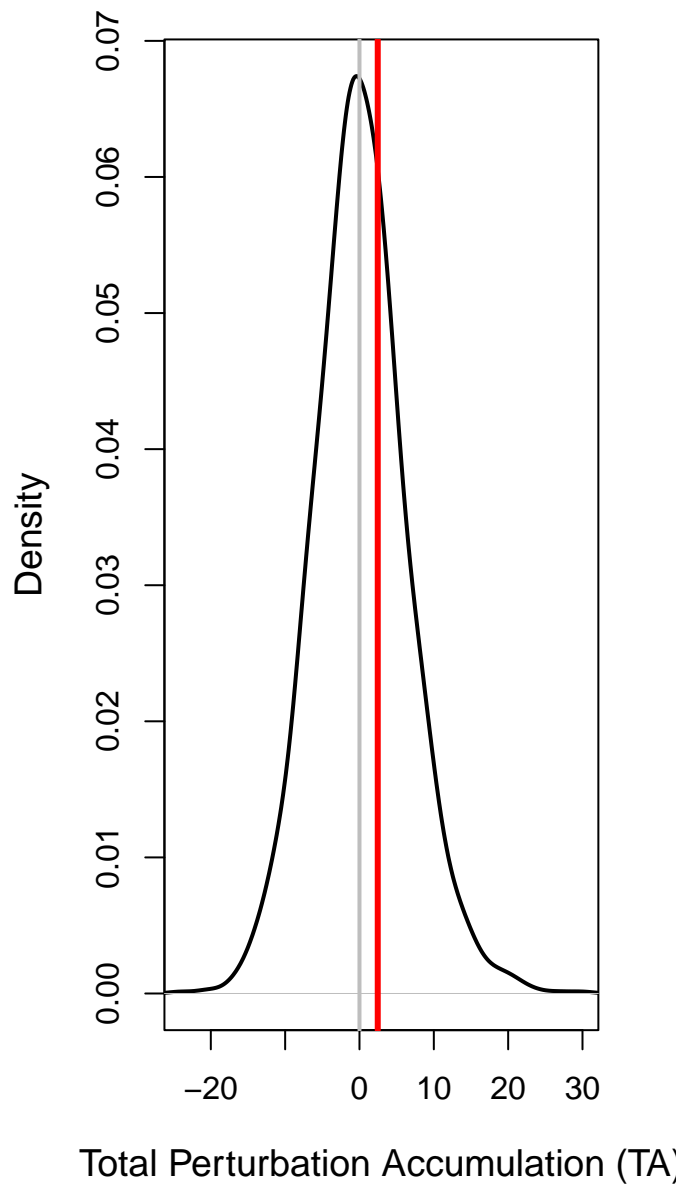
pathway ID=05130 P PERT=0.022



pathway ID=05131



pathway ID=05131 P PERT=0.677

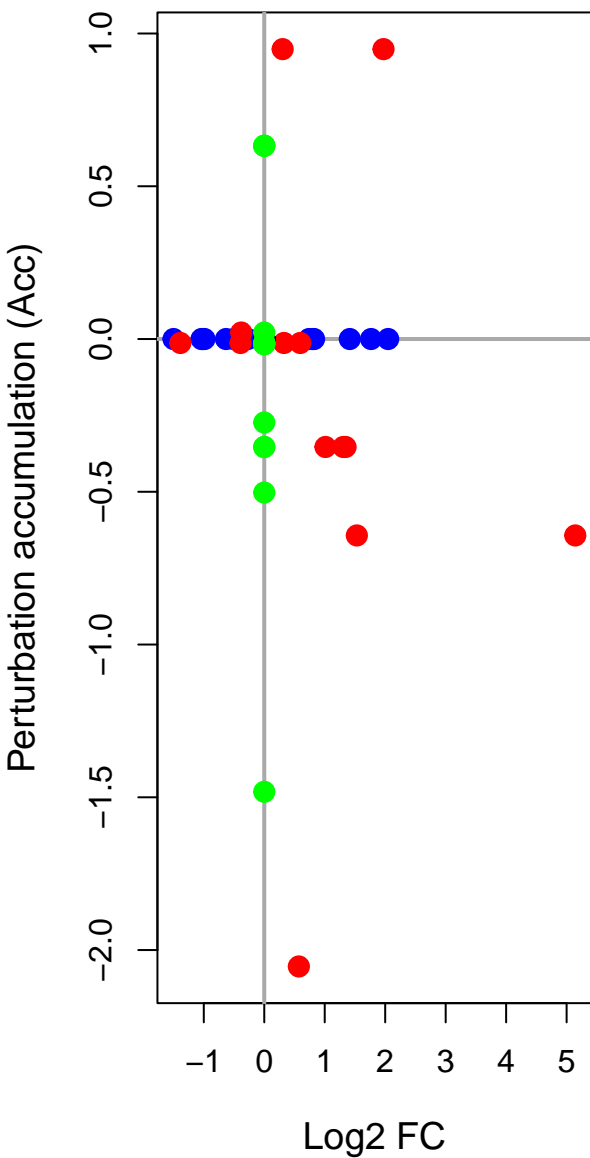


Log2 FC

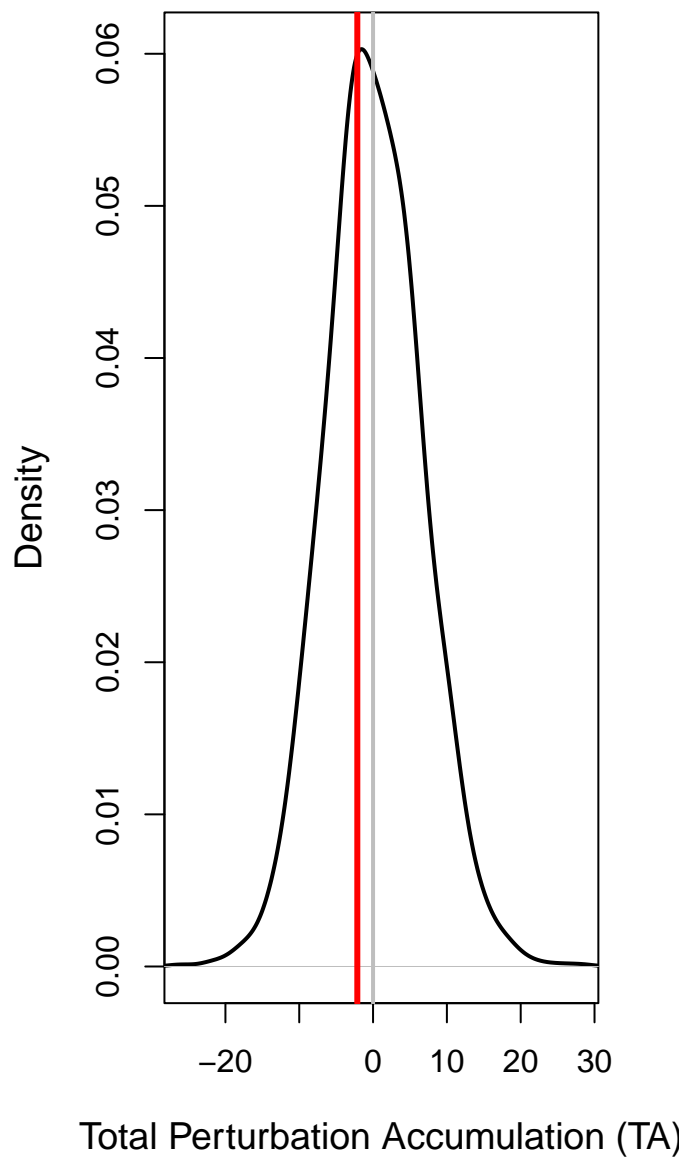
The figure shows a probability density function (PDF) represented by a black curve. The x-axis ranges from -20 to 20 with major ticks every 10 units. The y-axis ranges from 0.00 to 0.07 with major ticks every 0.01 units. A red vertical line is drawn at approximately $x = -2.5$, and a grey vertical line is drawn at $x = 0$. The peak of the black curve is located between these two lines, at approximately $x = -1$ with a height of about 0.068.

Total Perturbation Accumulation (TA)

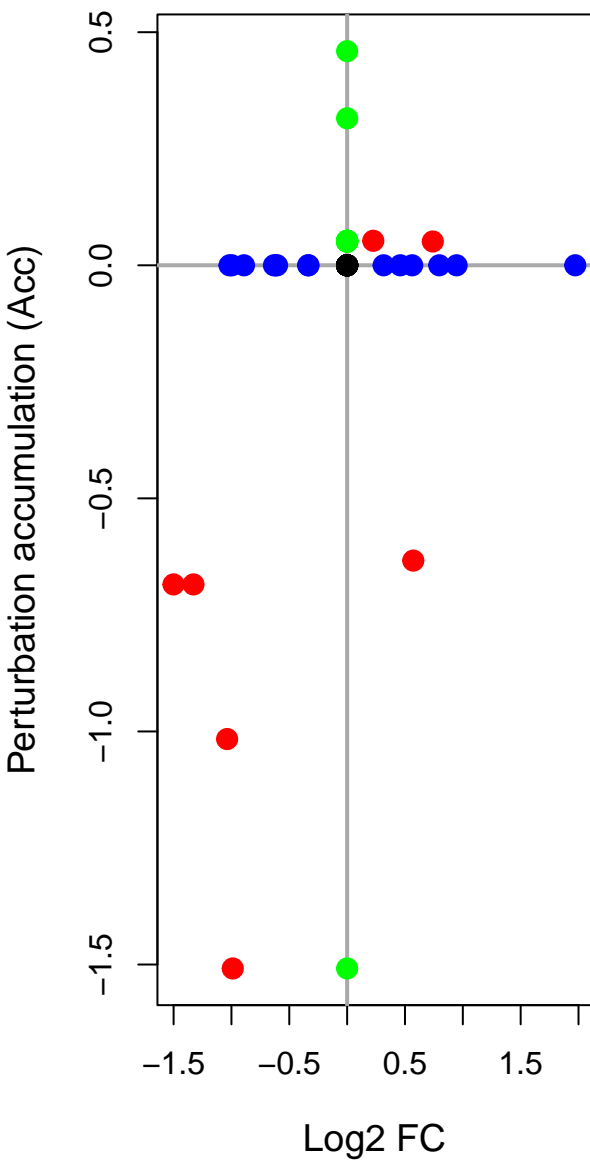
pathway ID=05133



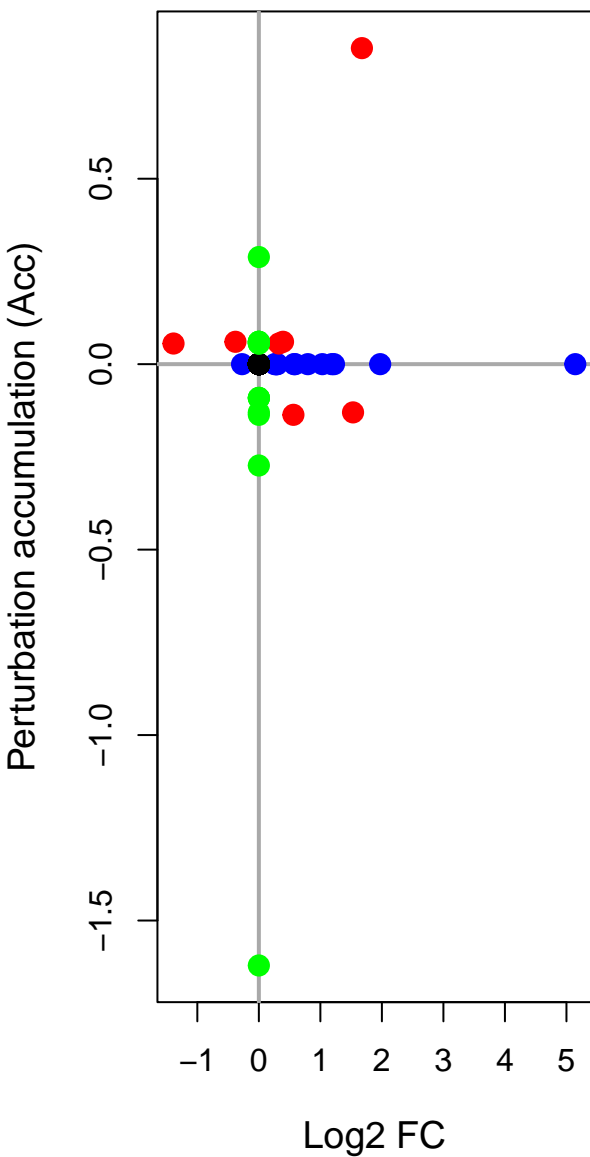
pathway ID=05133 P PERT=0.75



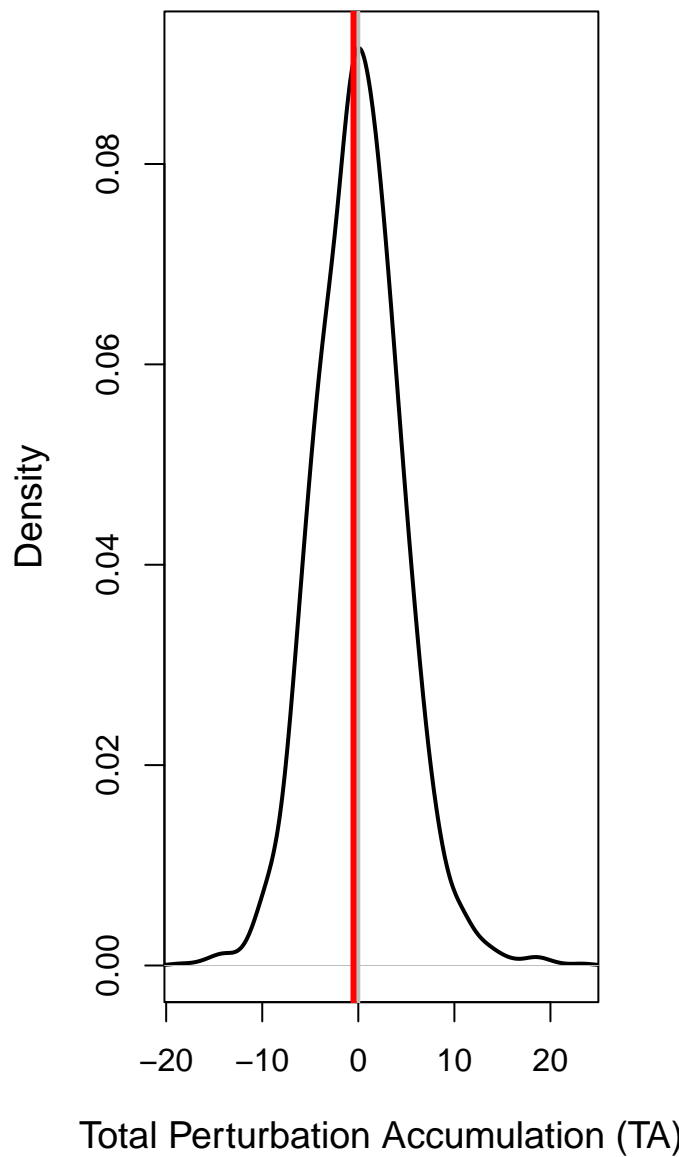
pathway ID=05134



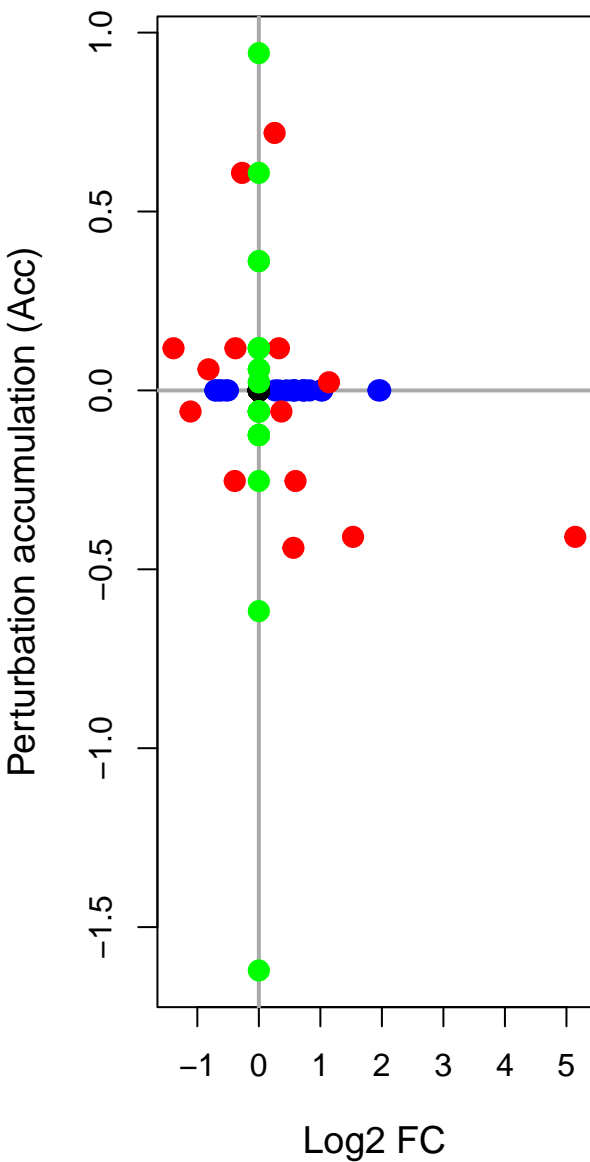
pathway ID=05140



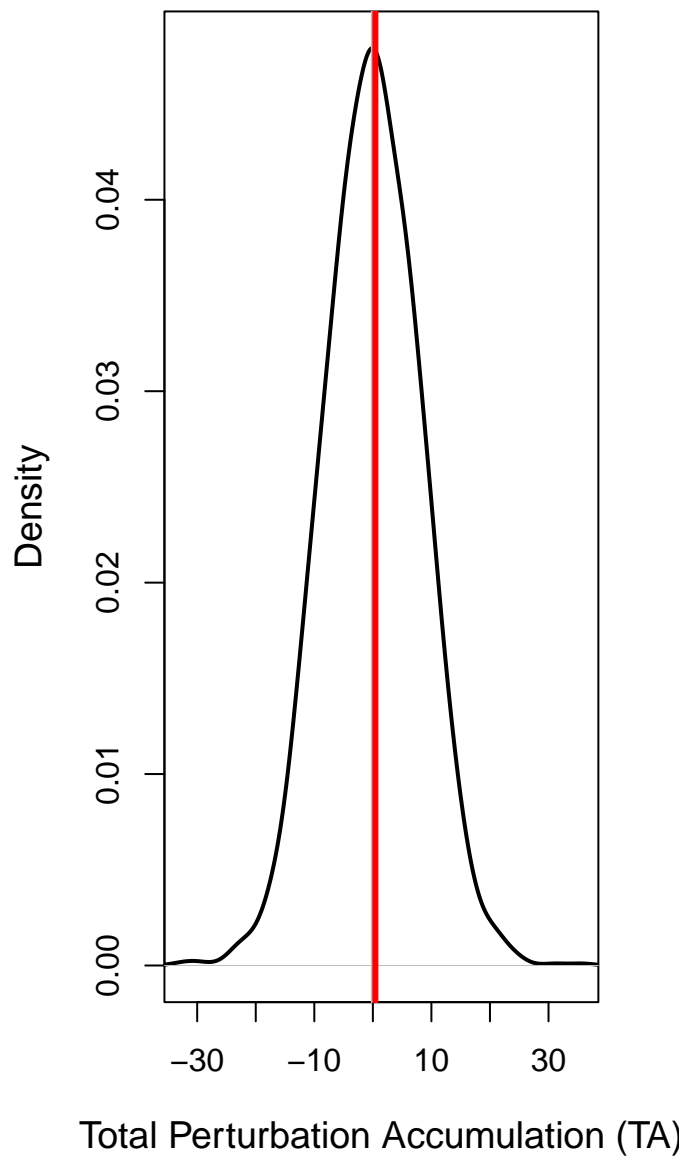
pathway ID=05140 P PERT=0.903



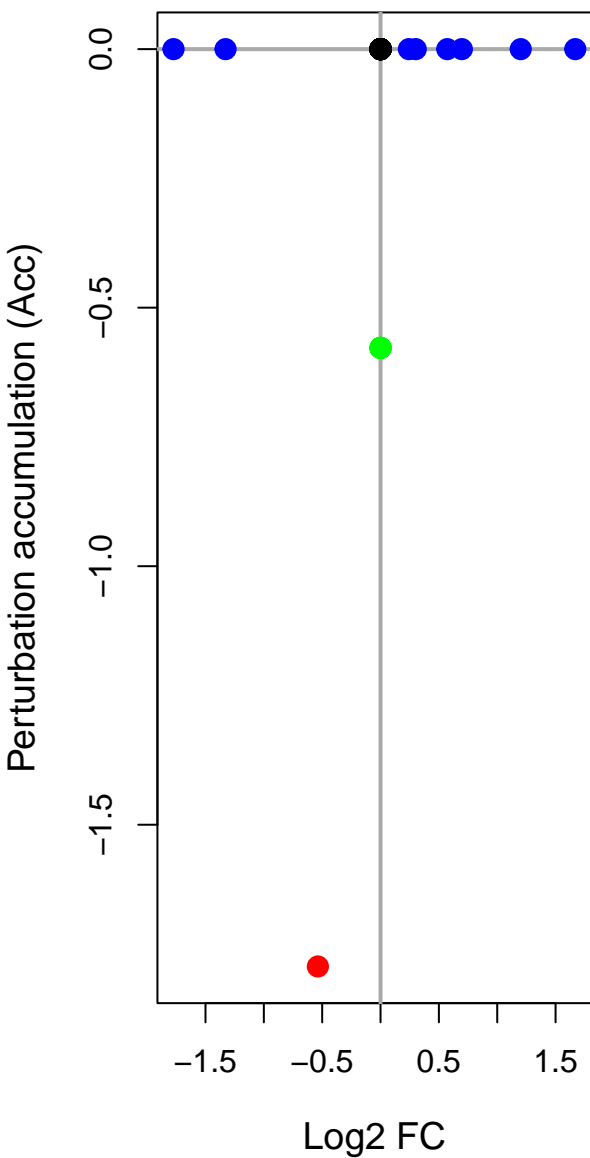
pathway ID=05142



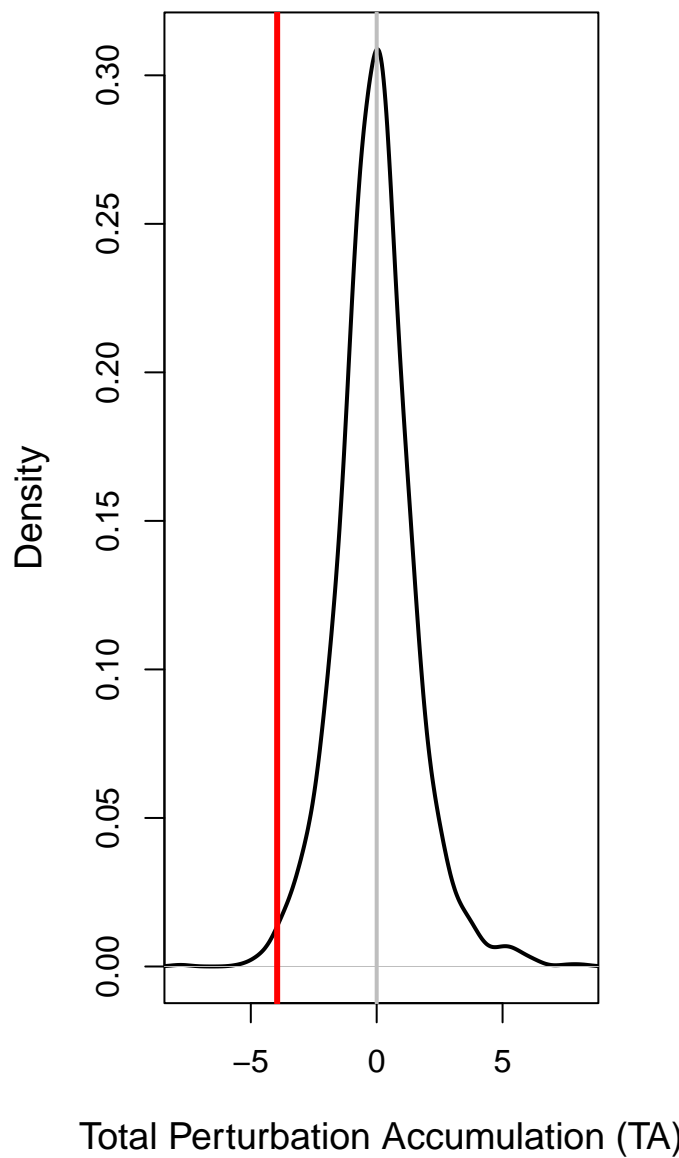
pathway ID=05142 P PERT=0.948



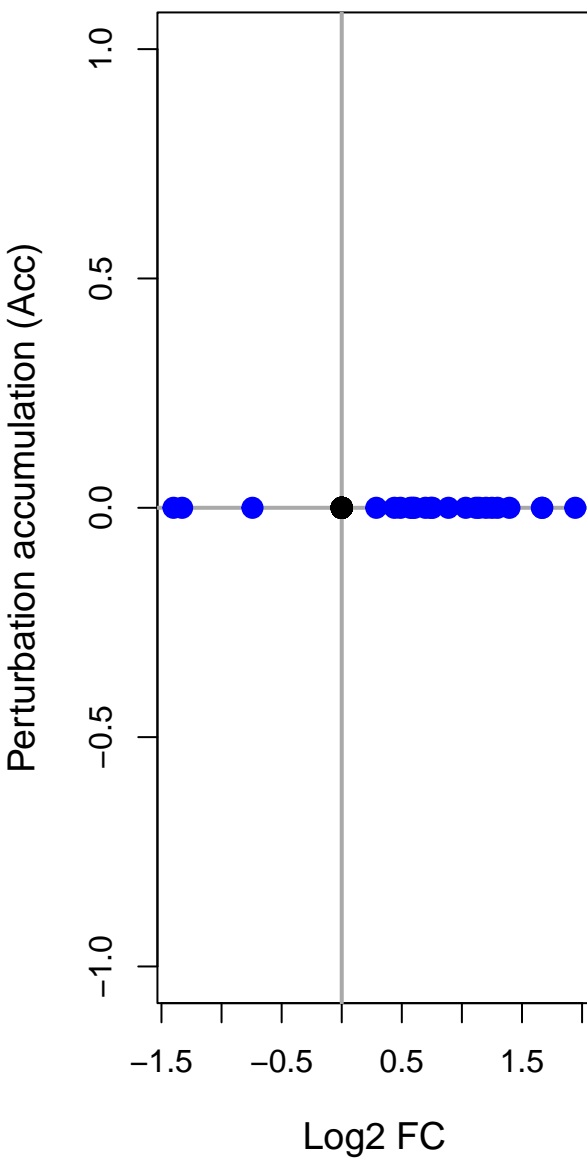
pathway ID=05143



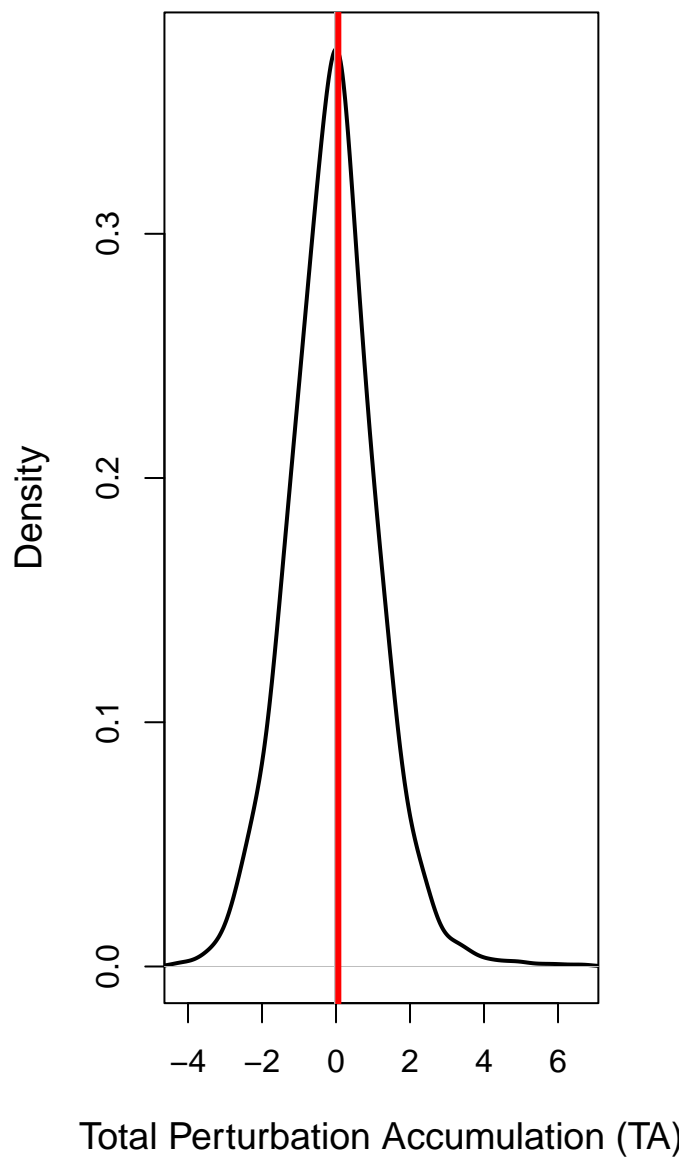
pathway ID=05143 P PERT=0.014



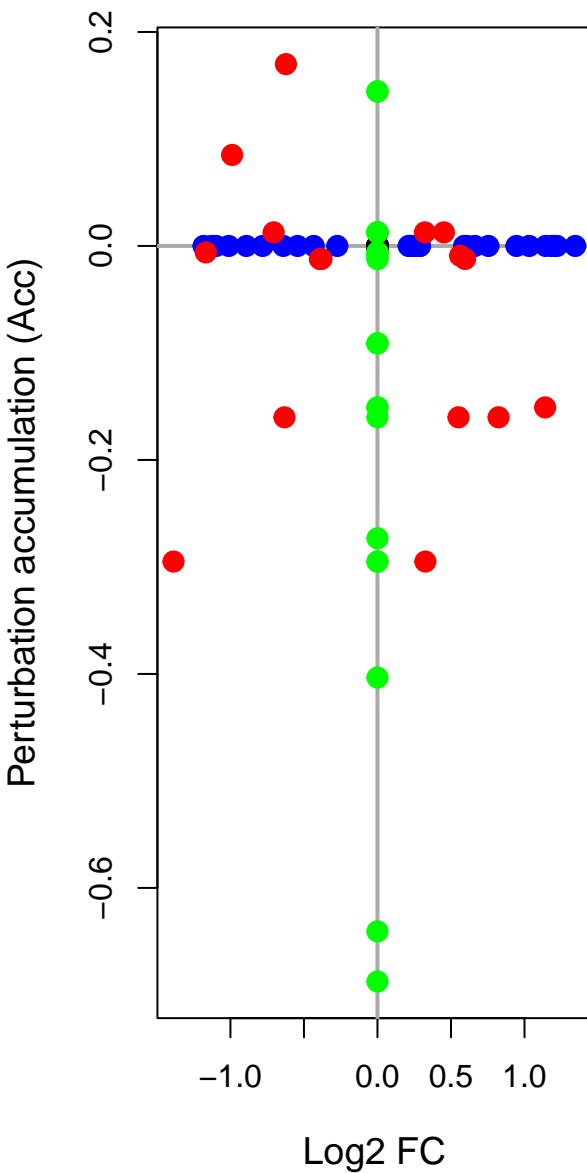
pathway ID=05144



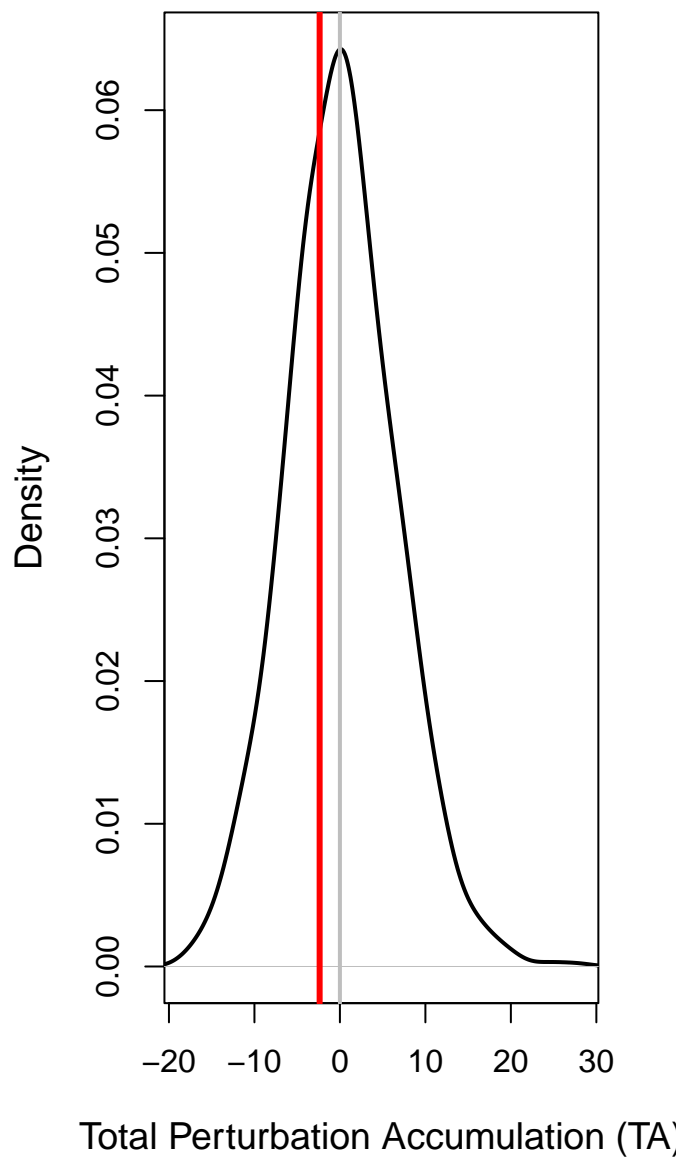
pathway ID=05144 P PERT=0.982



pathway ID=05145



pathway ID=05145 P PERT=0.698

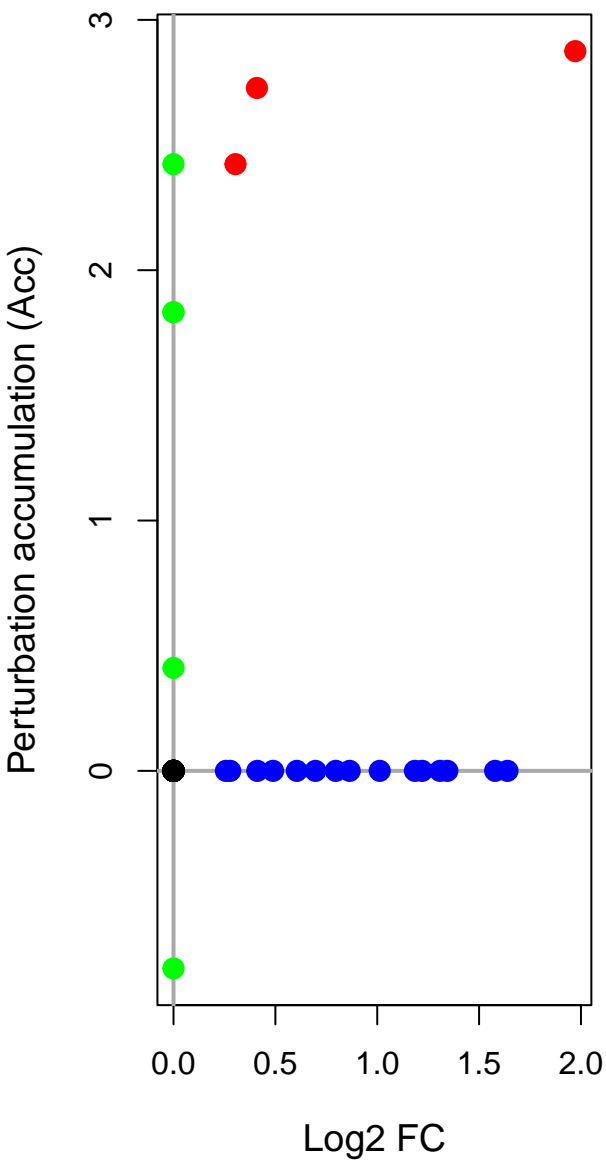


Log2 FC

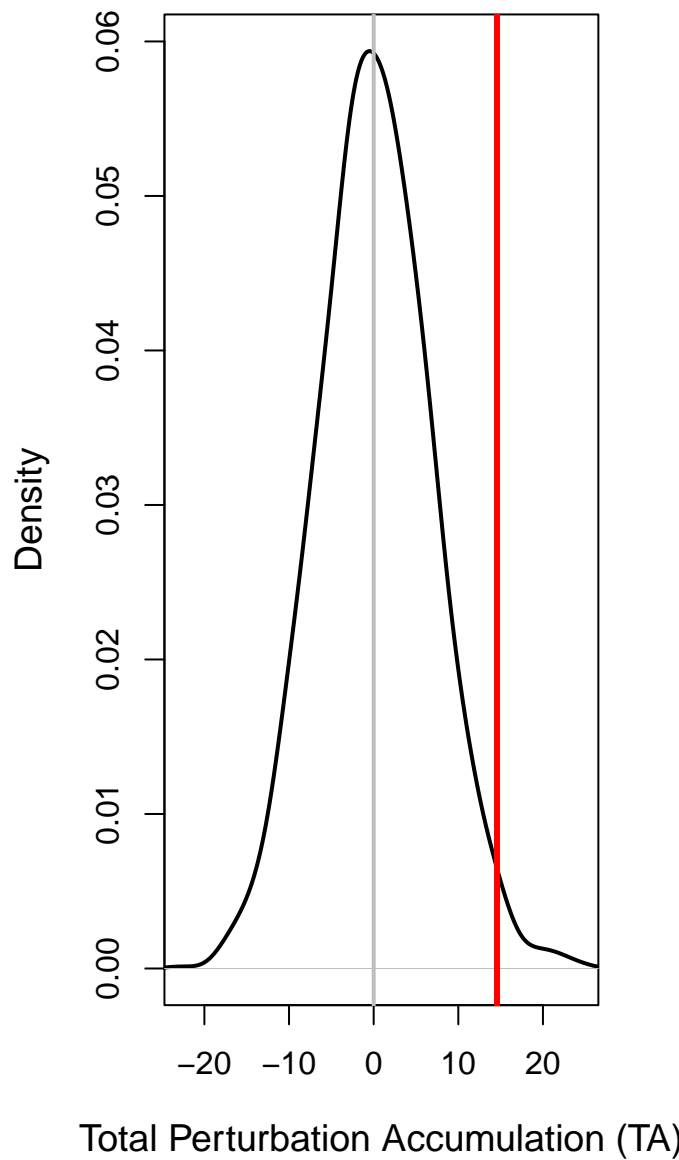
A plot of a normal distribution curve. The x-axis ranges from -10 to 10 with major ticks at -10, -5, 0, 5, and 10. The y-axis ranges from 0.00 to 0.10 with major ticks at 0.00, 0.02, 0.04, 0.06, 0.08, and 0.10. A black curve represents the probability density function, peaking at x=0 with a value of approximately 0.10. A vertical red line is drawn at x=0, passing through the peak of the curve. A horizontal grey line is drawn at y=0.

Total Perturbation Accumulation

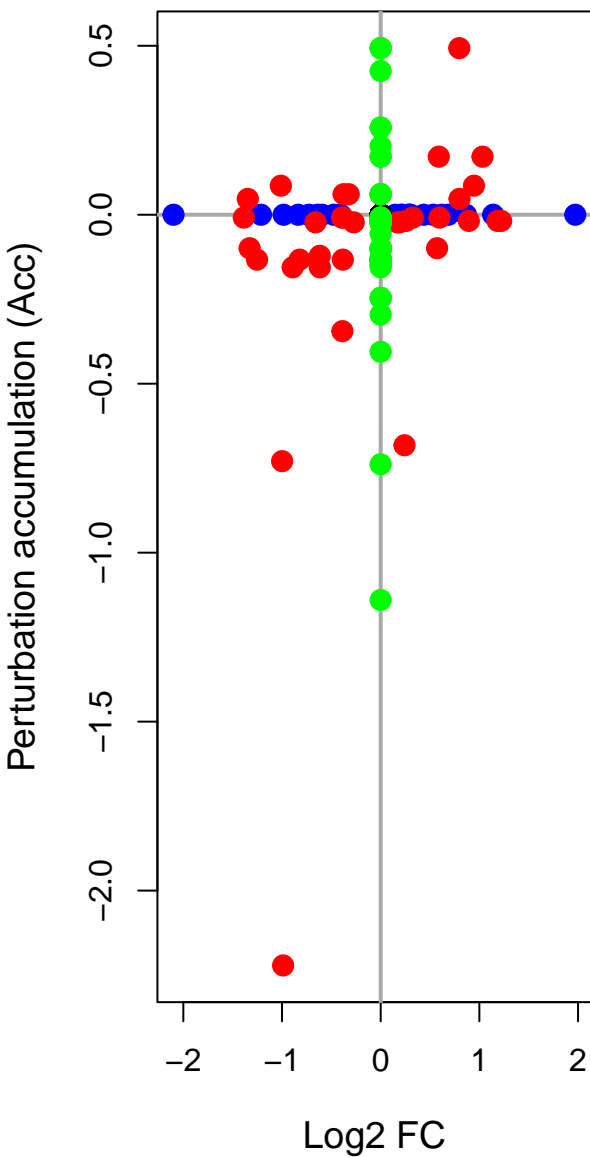
pathway ID=05150



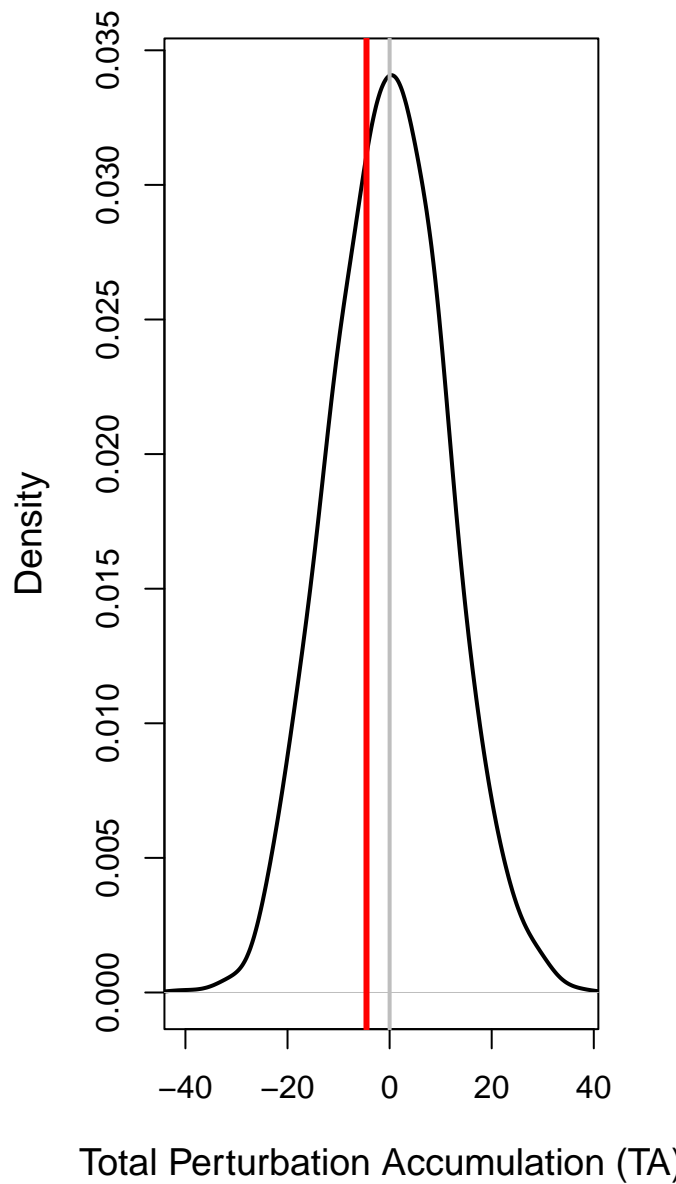
pathway ID=05150 P PERT=0.032



pathway ID=05152



pathway ID=05152 P PERT=0.691



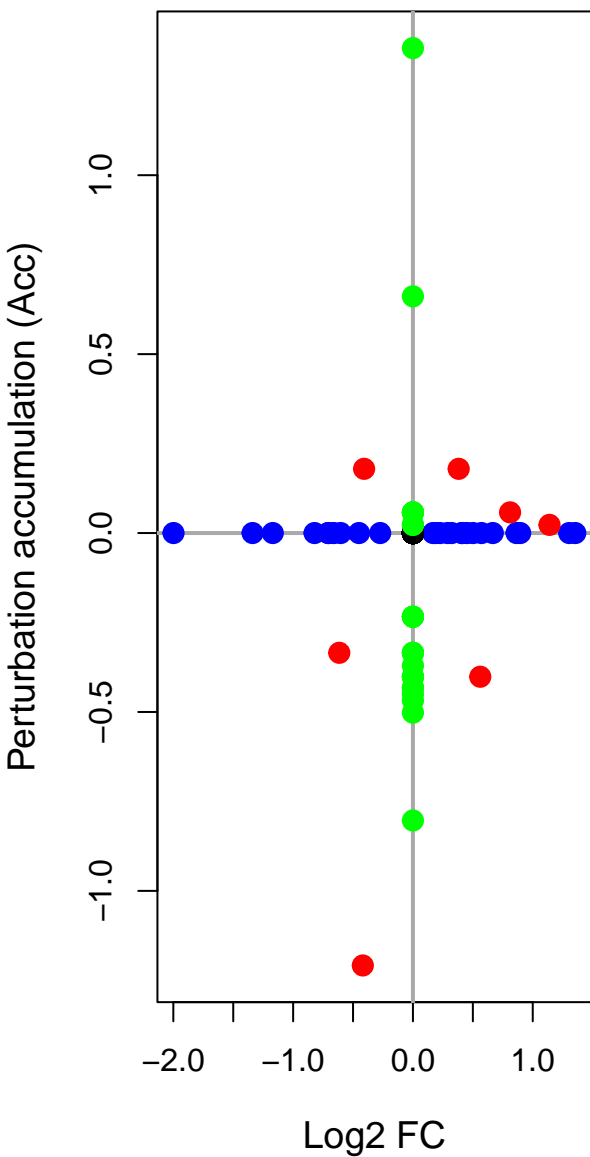
Perturbation accumulation (Acc)

A plot of a normal distribution curve centered at 0. The x-axis ranges from -20 to 20, and the y-axis ranges from 0.00 to 0.06. A vertical red line is drawn at approximately -12.5, and a vertical grey line is drawn at 0. The curve is black and symmetric about the grey line.

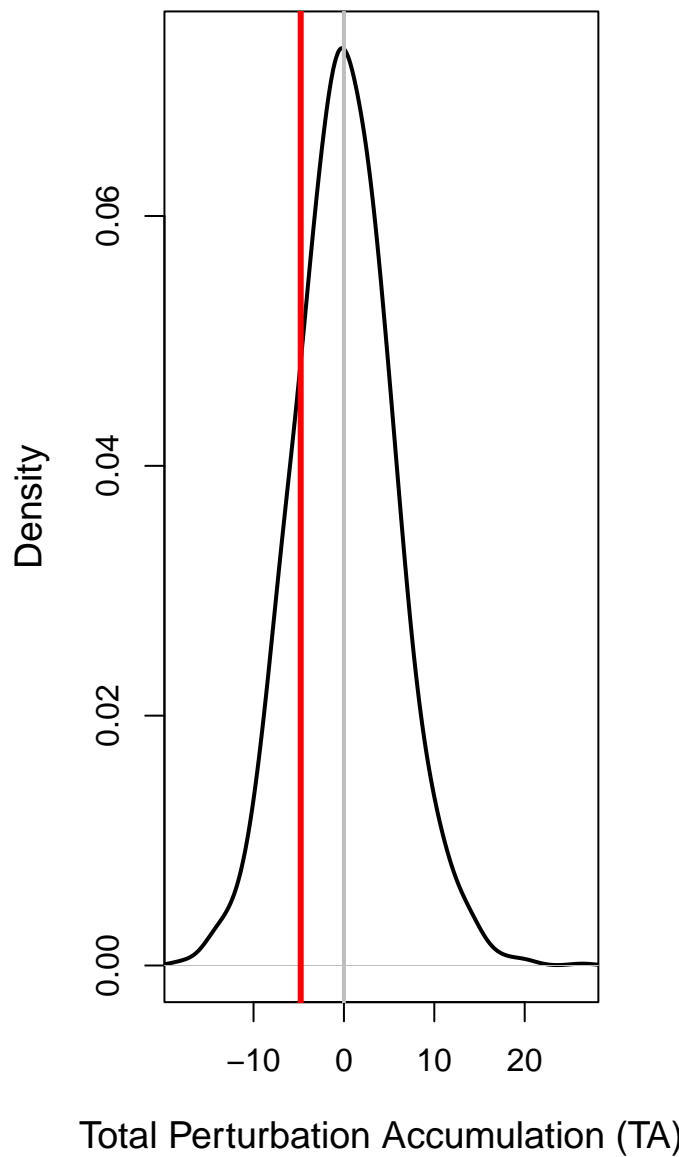
Total Perturbation Accumulation (TA)

Density

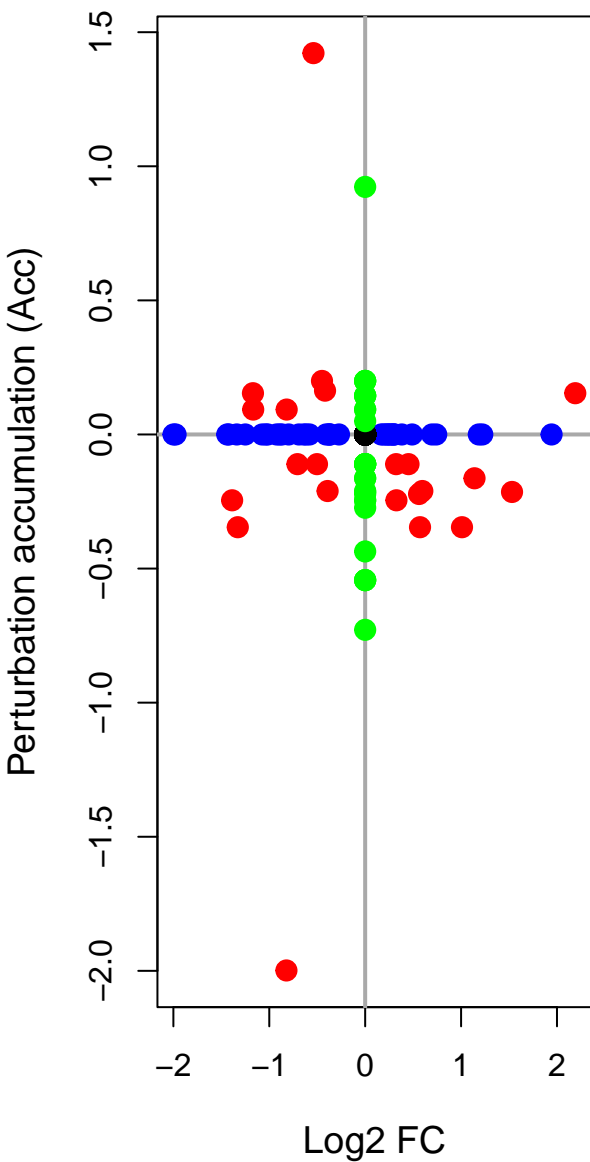
pathway ID=05162



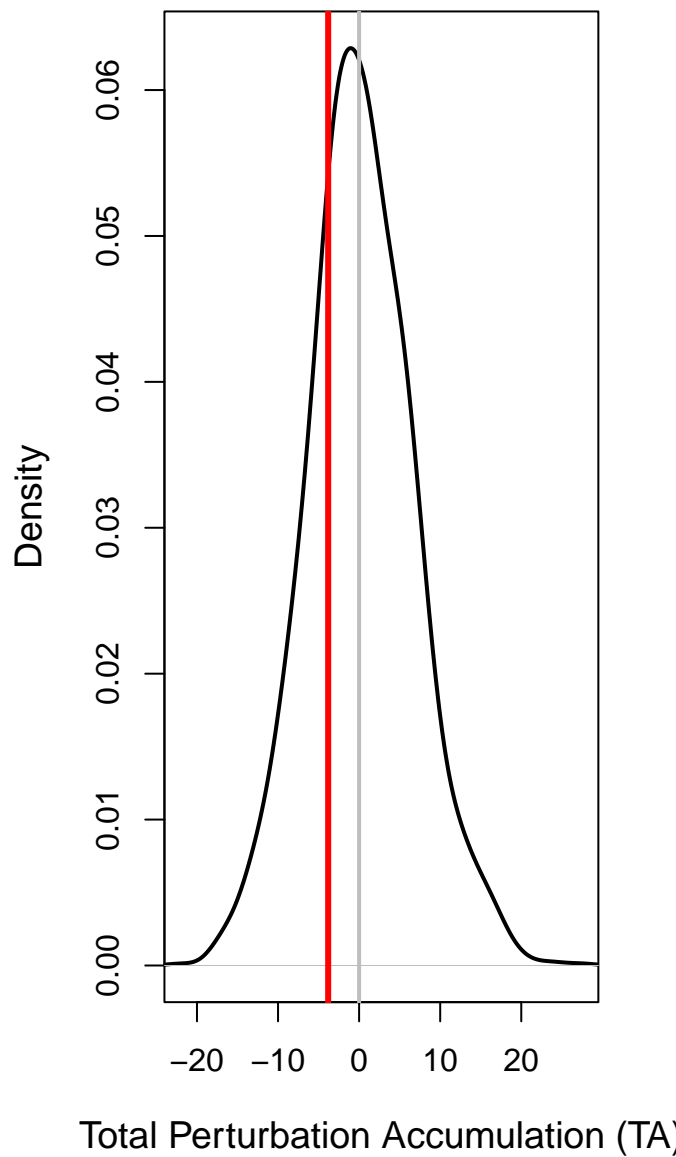
pathway ID=05162 P PERT=0.37



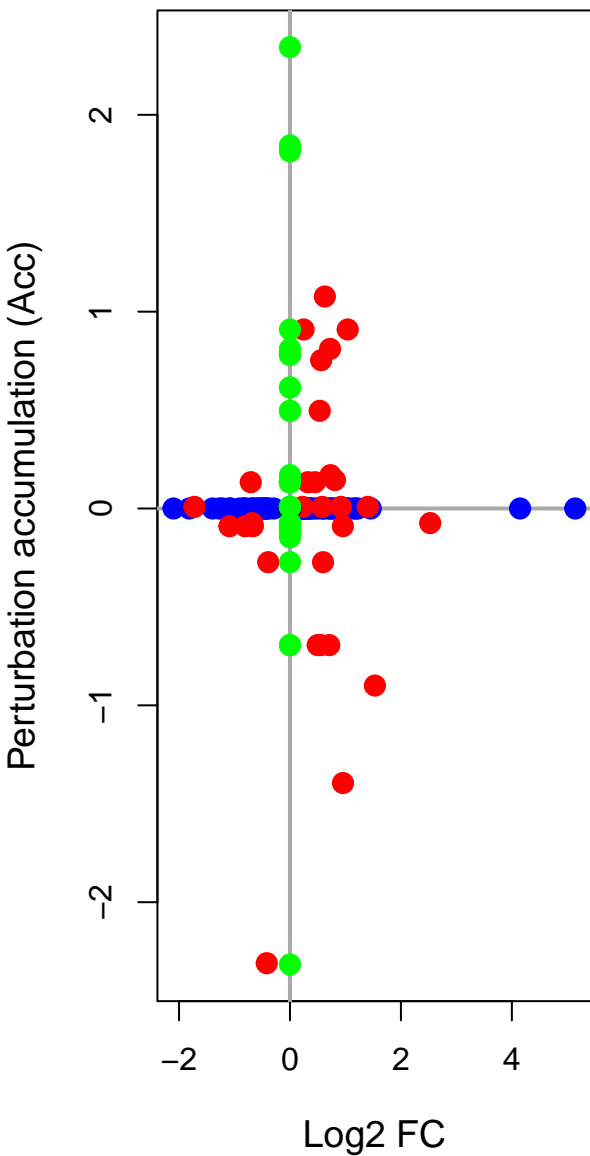
pathway ID=05164



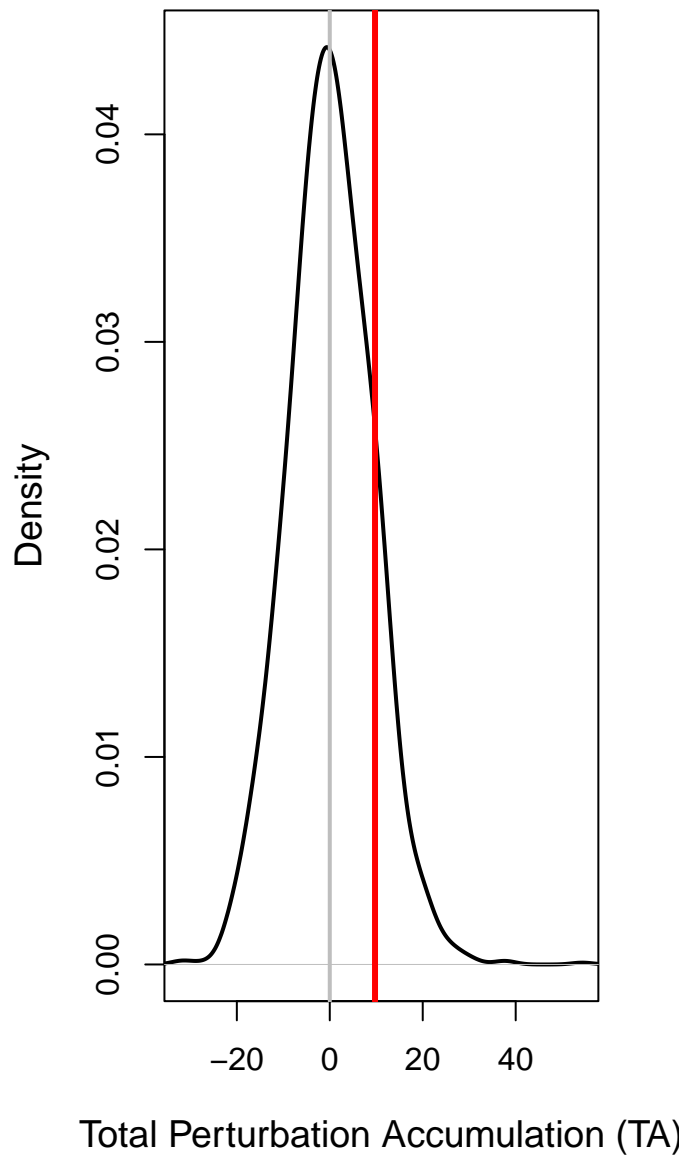
pathway ID=05164 P PERT=0.511



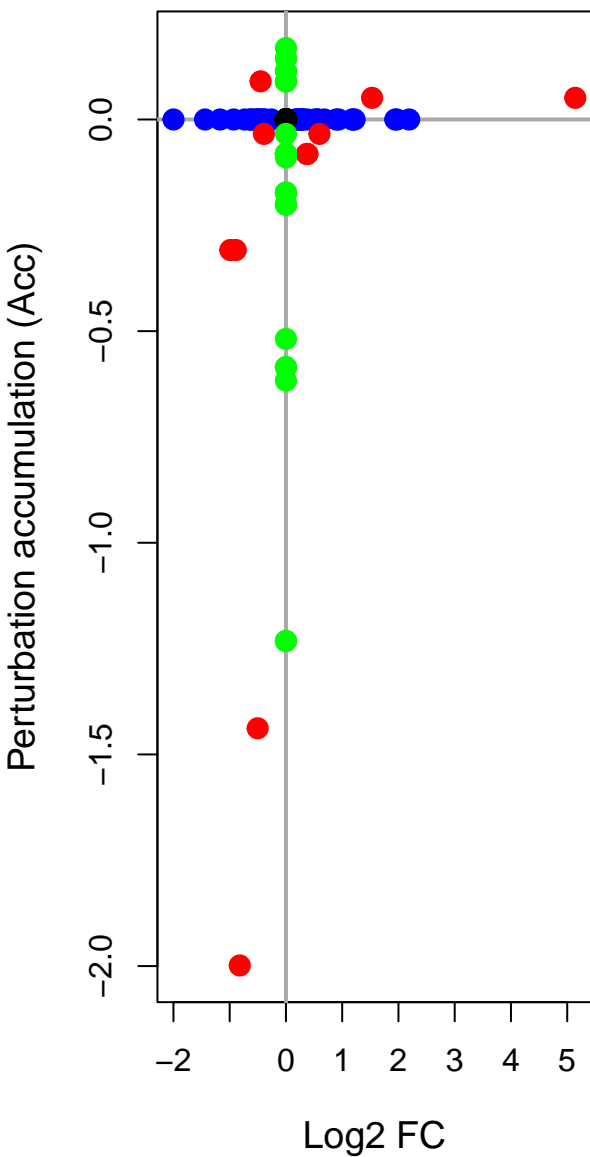
pathway ID=05166



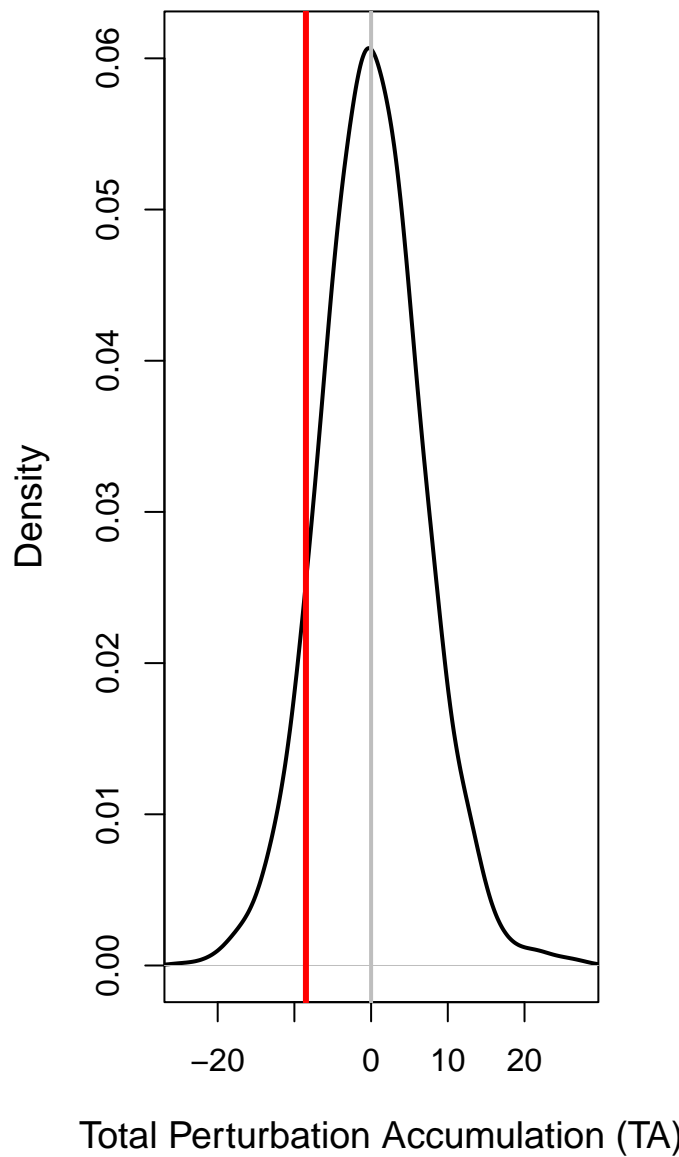
pathway ID=05166 P PERT=0.287



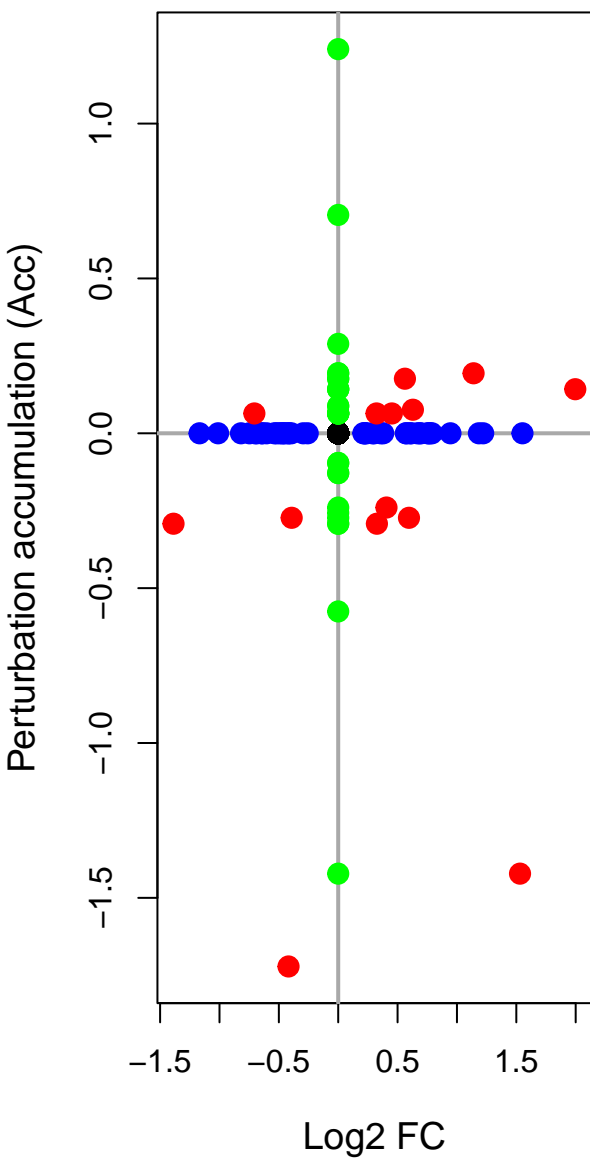
pathway ID=05168



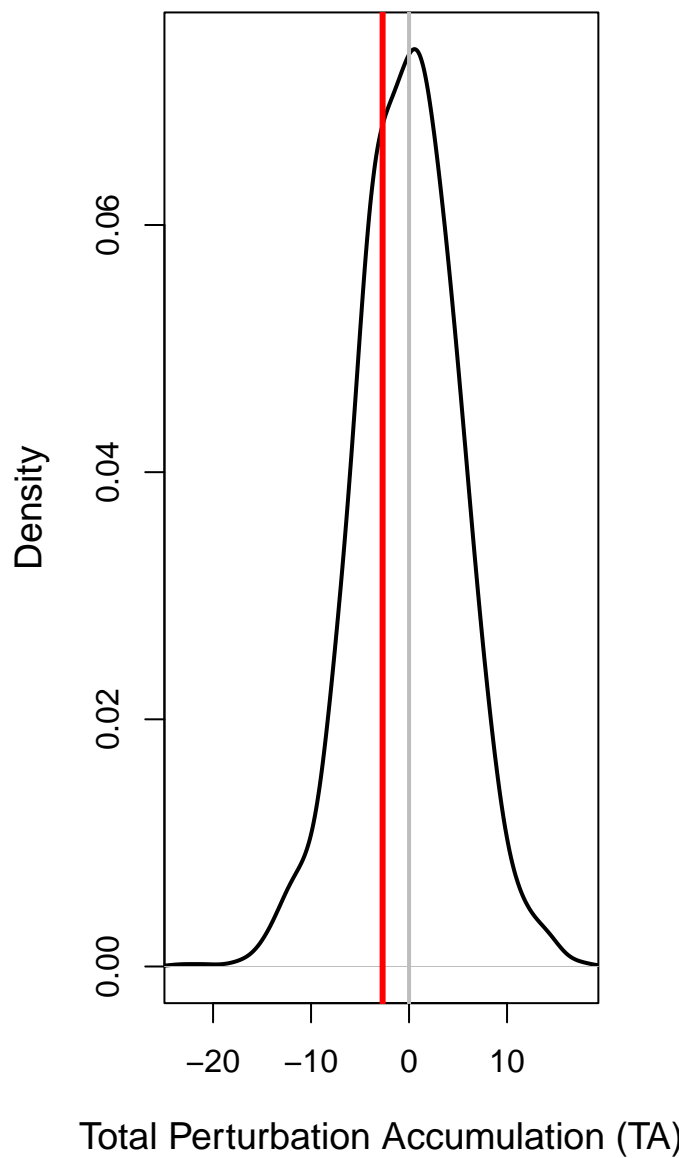
pathway ID=05168 P PERT=0.181



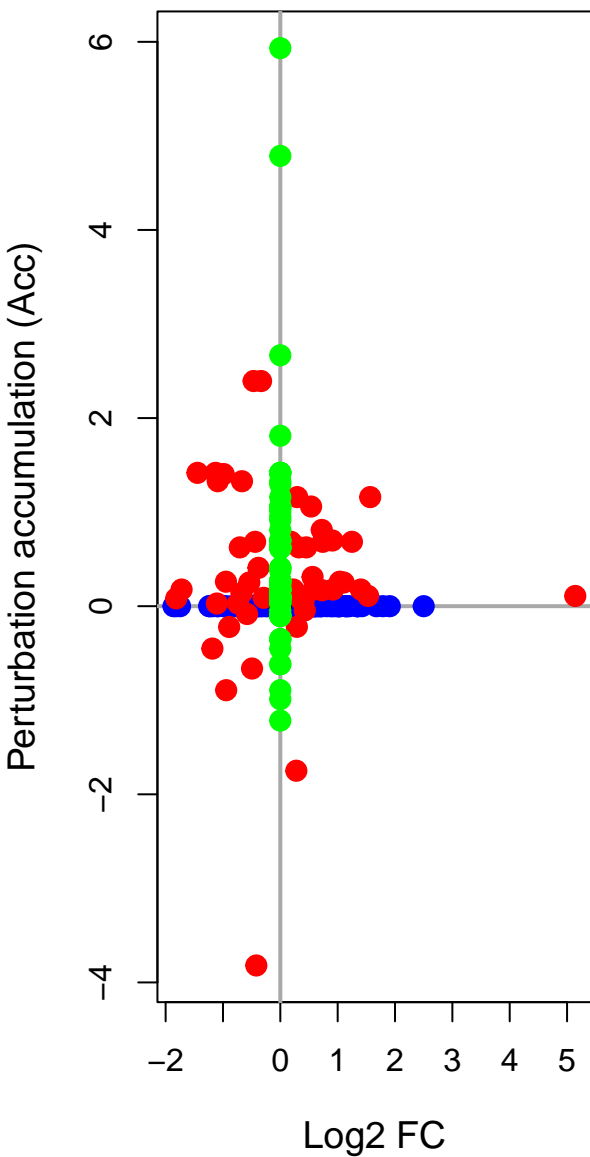
pathway ID=05169



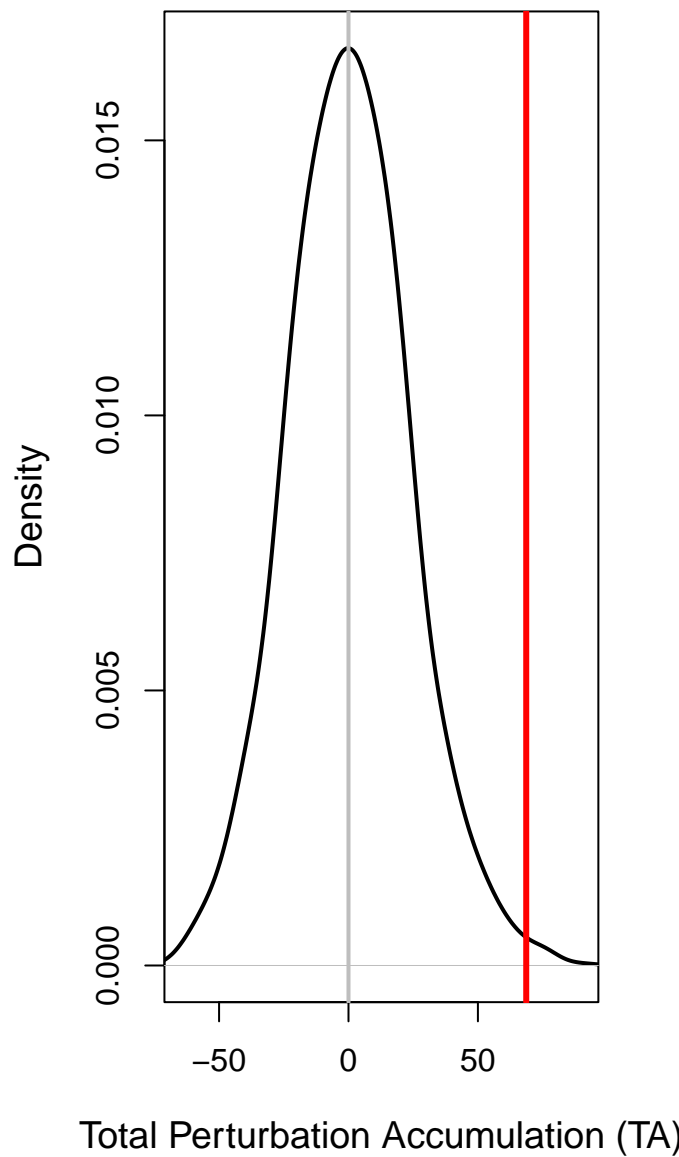
pathway ID=05169 P PERT=0.625



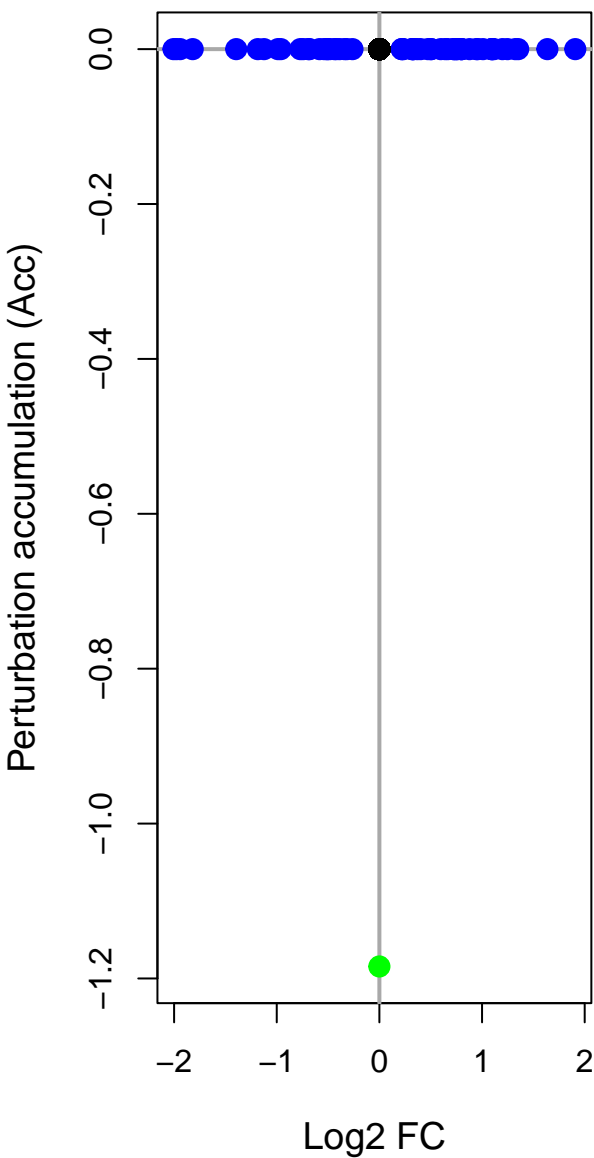
pathway ID=05200



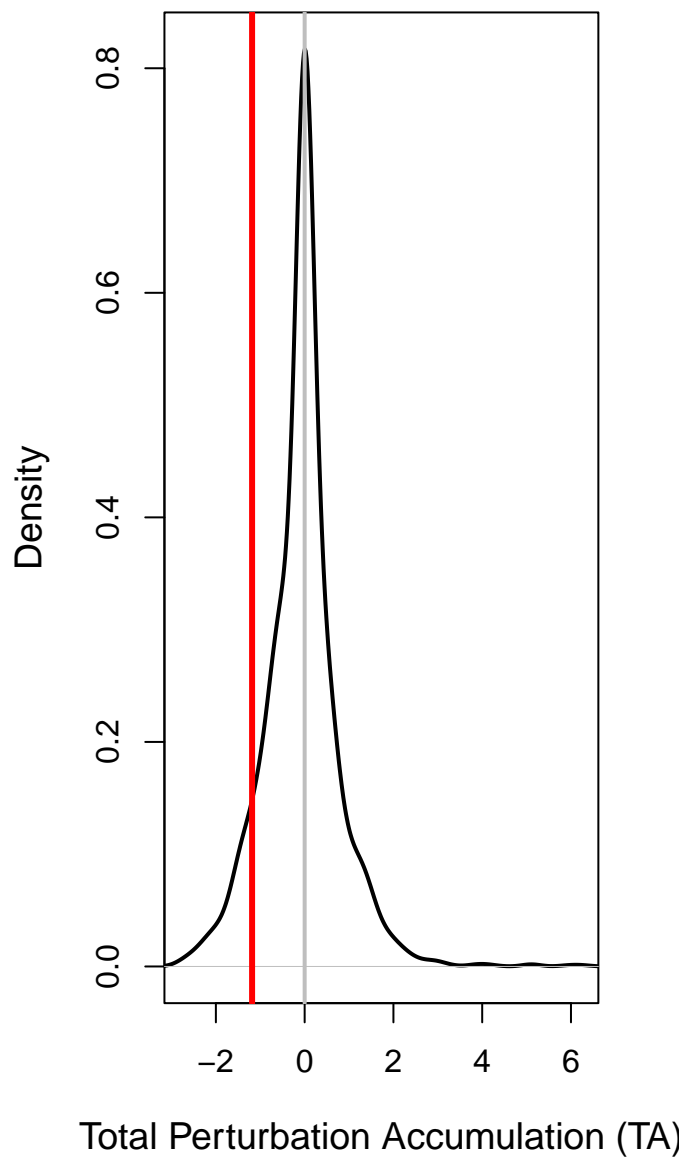
pathway ID=05200 P PERT=0.009



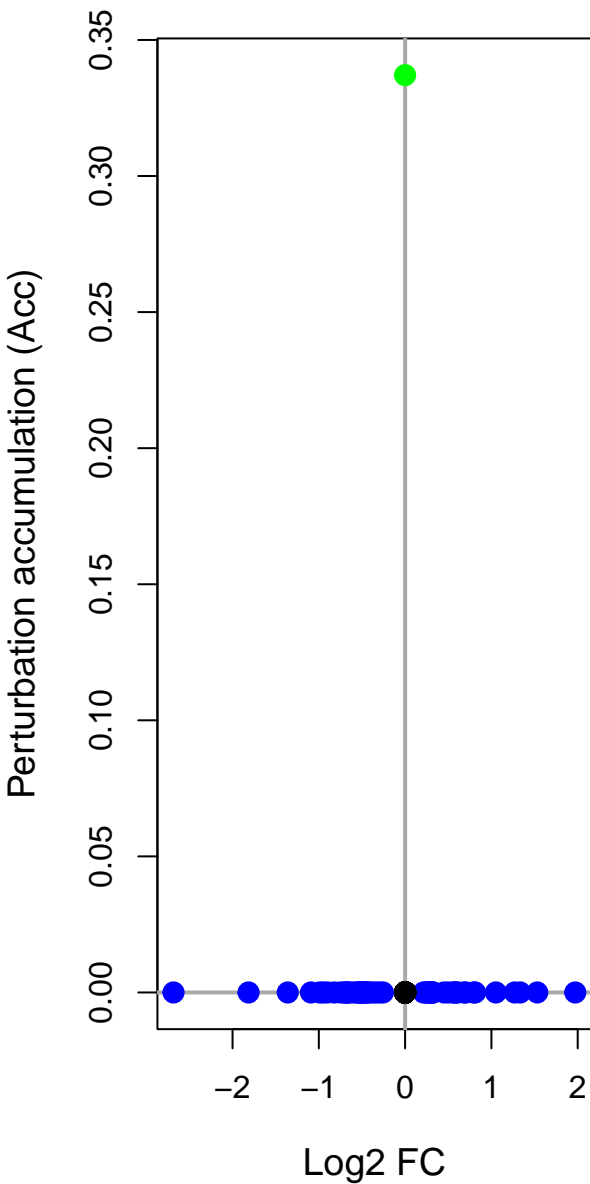
pathway ID=05202



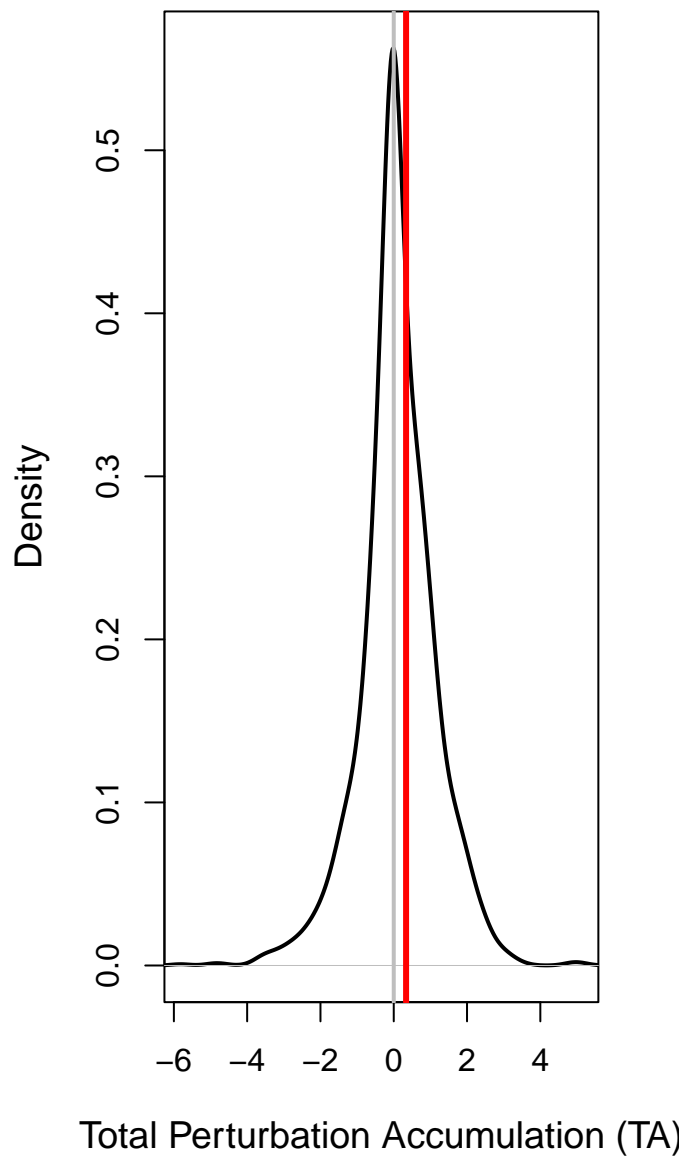
pathway ID=05202 P PERT=0.164



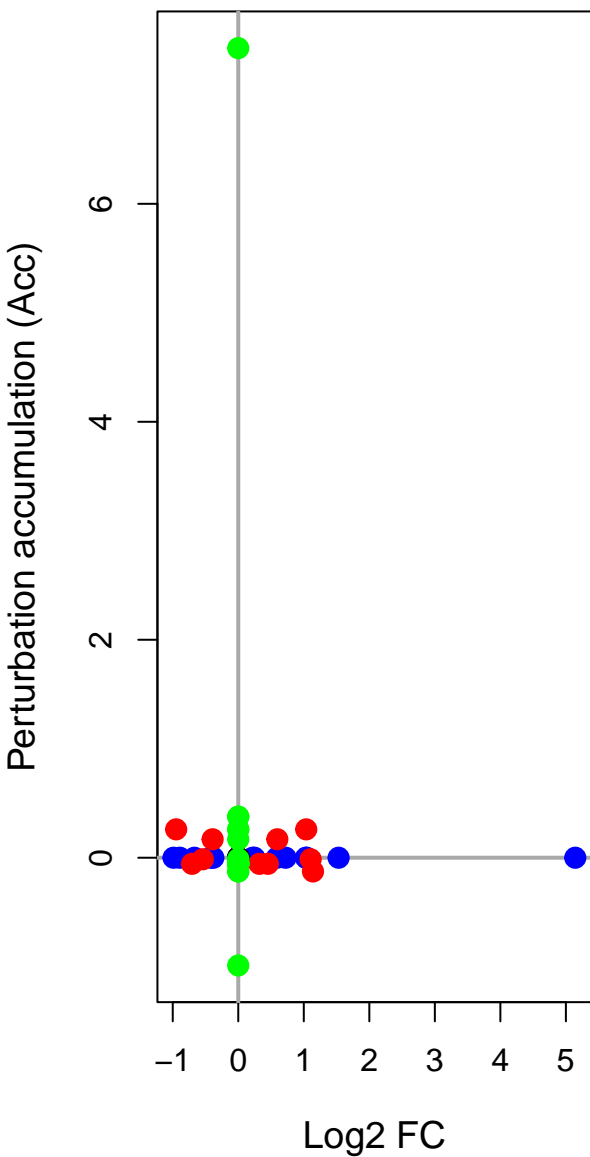
pathway ID=05203



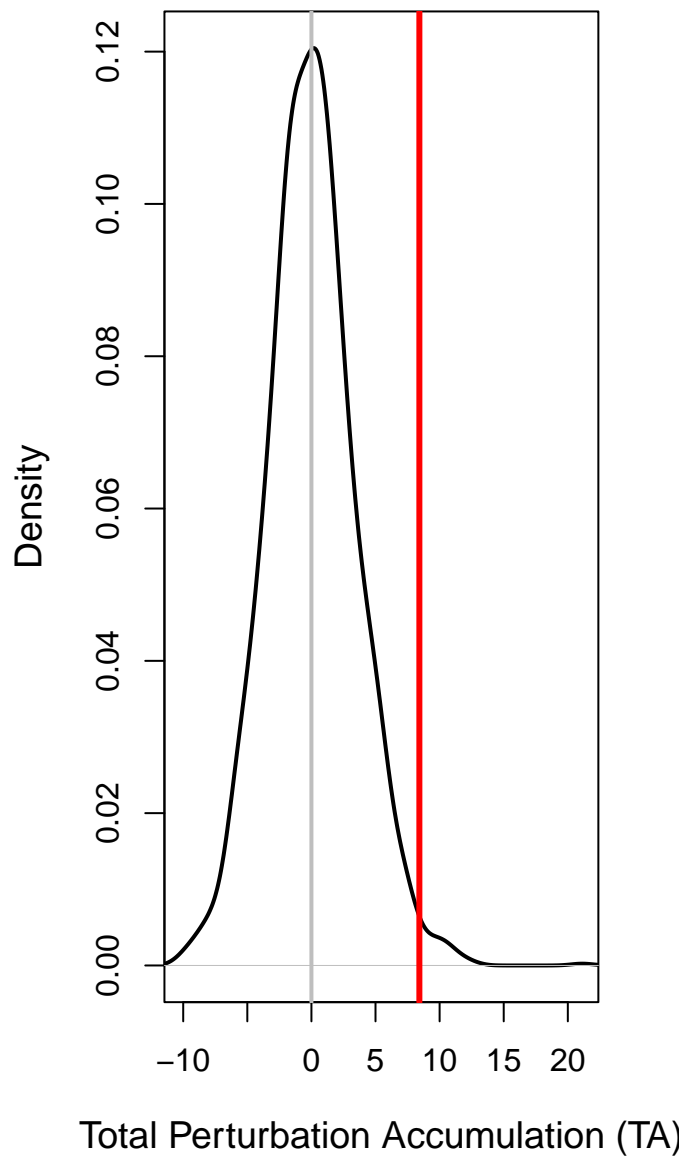
pathway ID=05203 P PERT=0.742



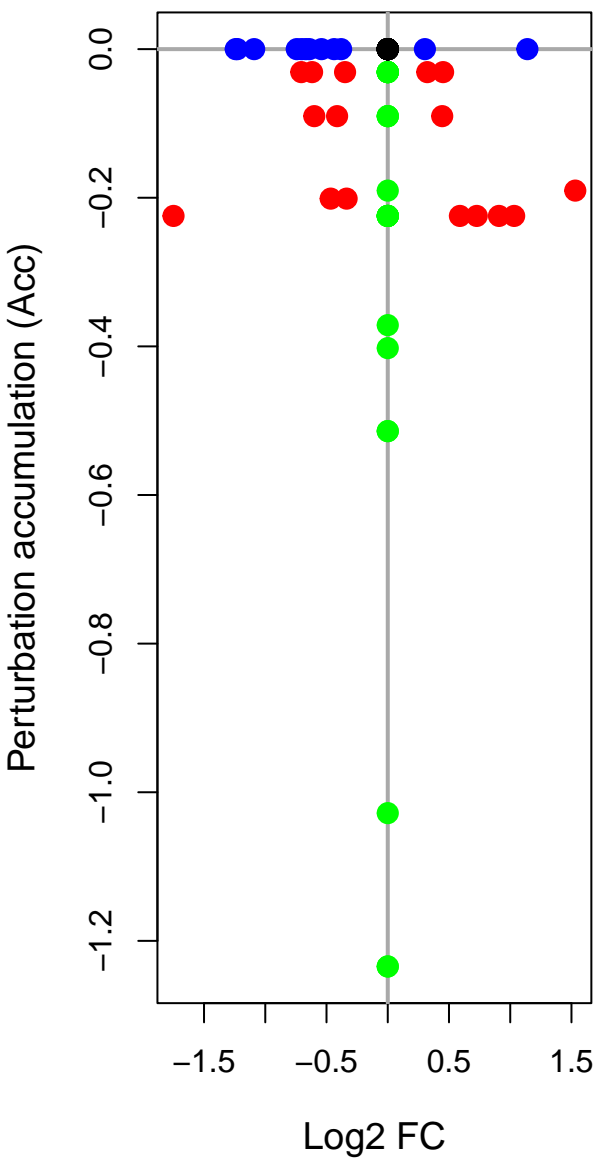
pathway ID=05210



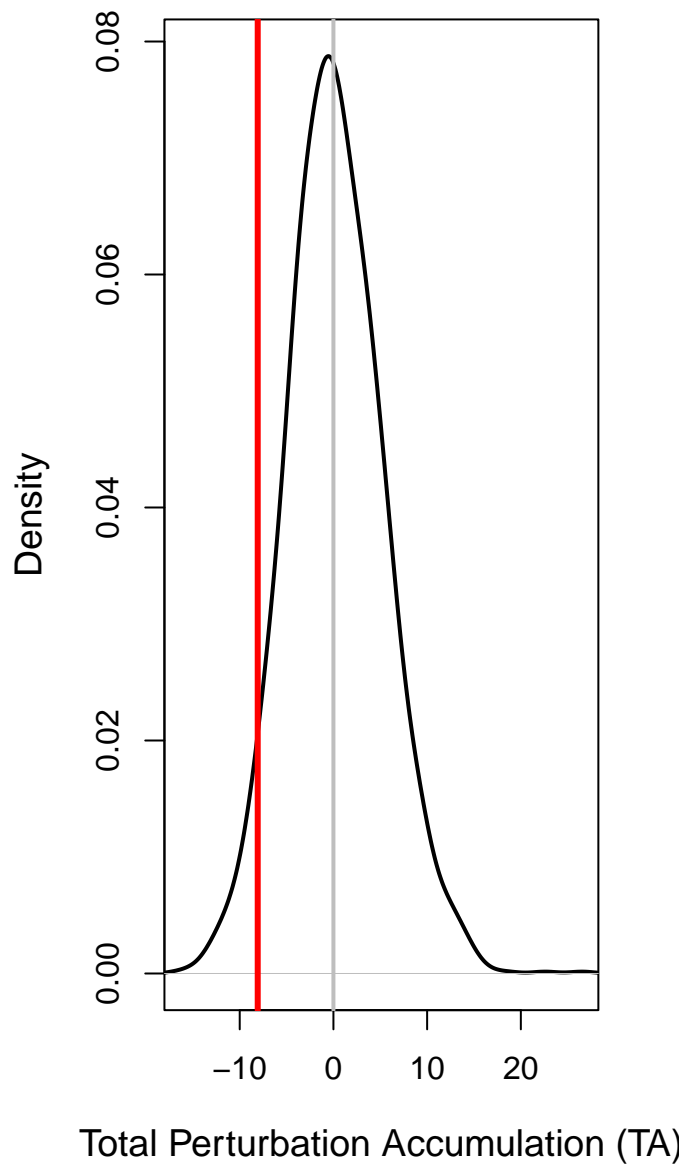
pathway ID=05210 P PERT=0.025



pathway ID=05211



pathway ID=05211 P PERT=0.089

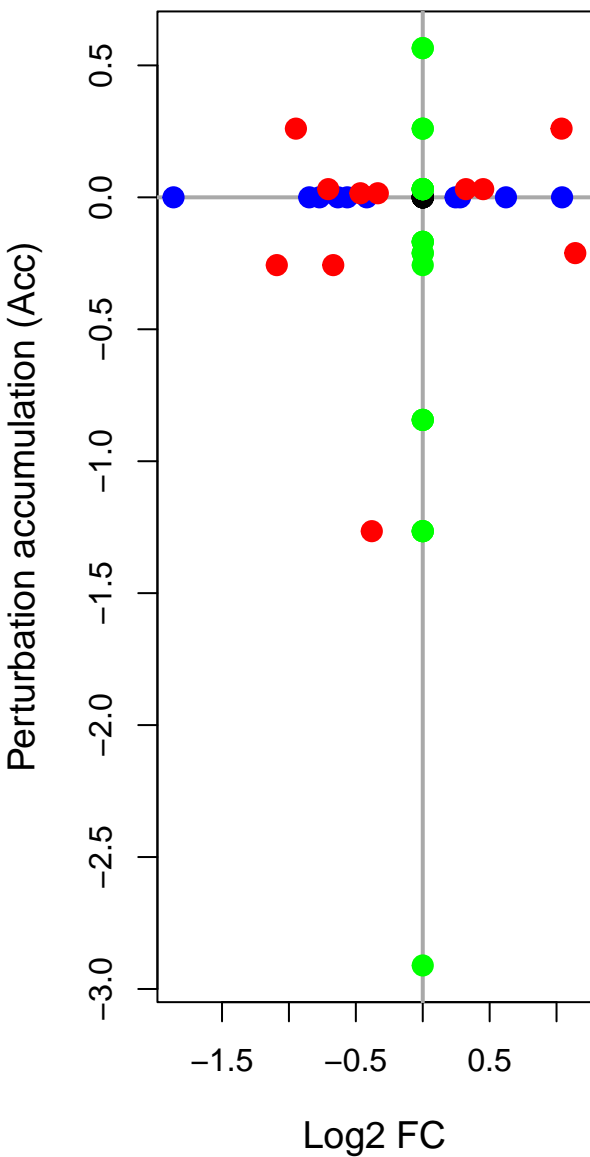


Total Perturbation Accumulation (TA)

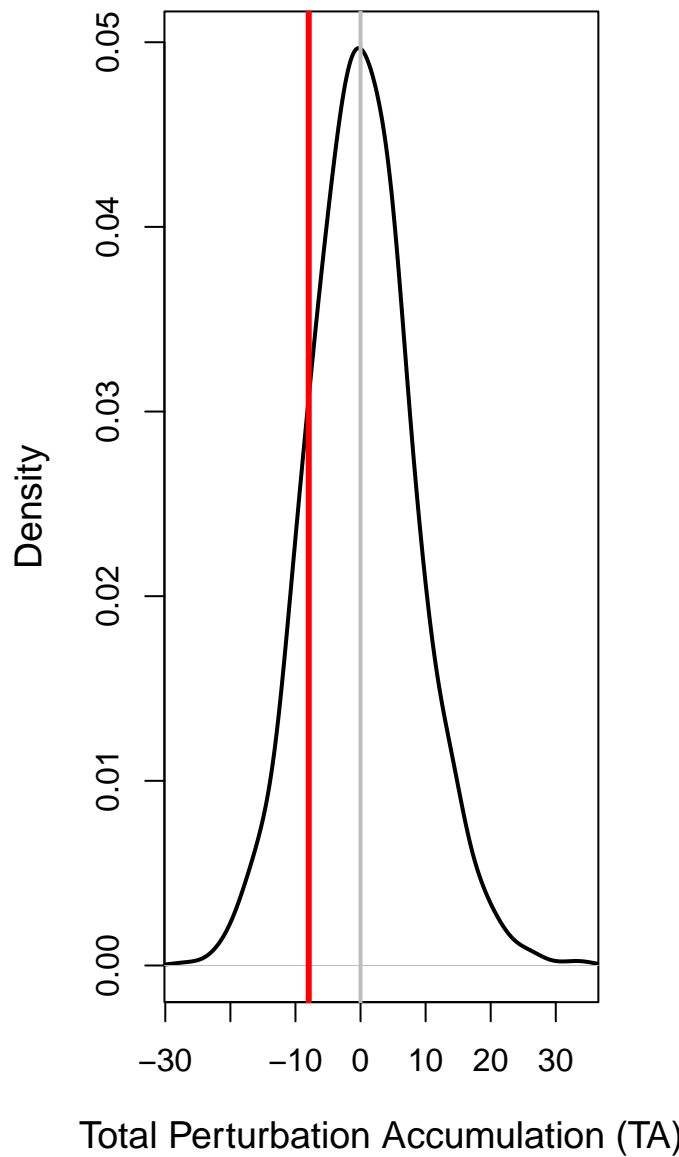
A density plot showing the posterior distribution for the parameter α . The x-axis represents the value of α , ranging from 0.00 to 0.06. The y-axis represents the density, ranging from 0.00 to 0.06. The distribution is unimodal and slightly right-skewed, with a peak density of approximately 0.065 at $\alpha \approx 0.055$. A vertical grey line is drawn at $\alpha = 0.05$, and a vertical red line is drawn at $\alpha \approx 0.058$.

Total Perturbation Accumulation (TA)

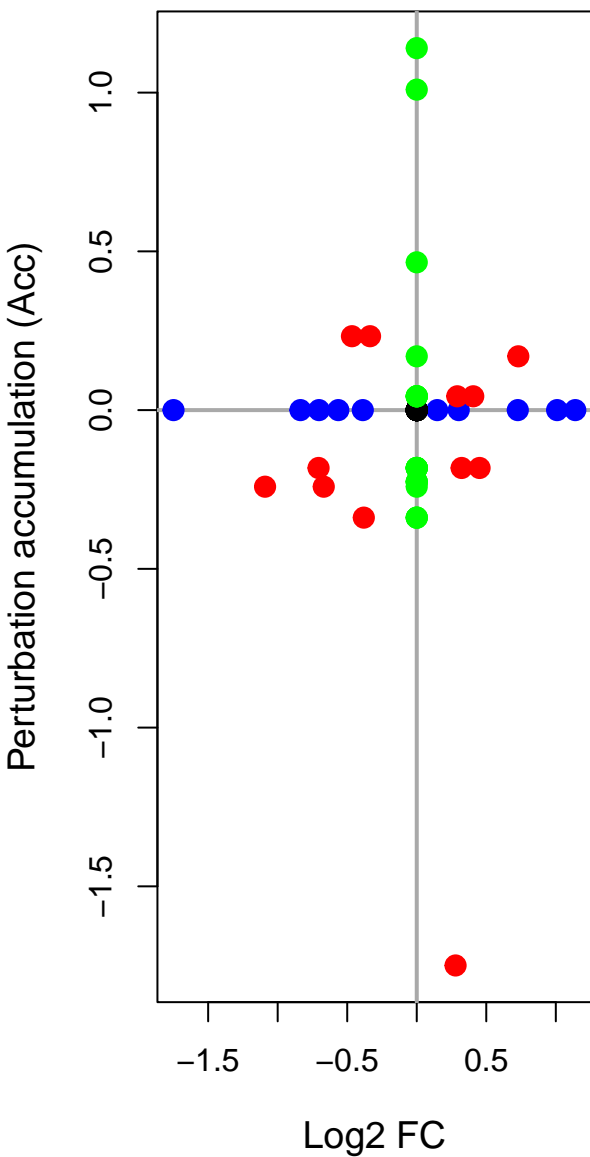
pathway ID=05213



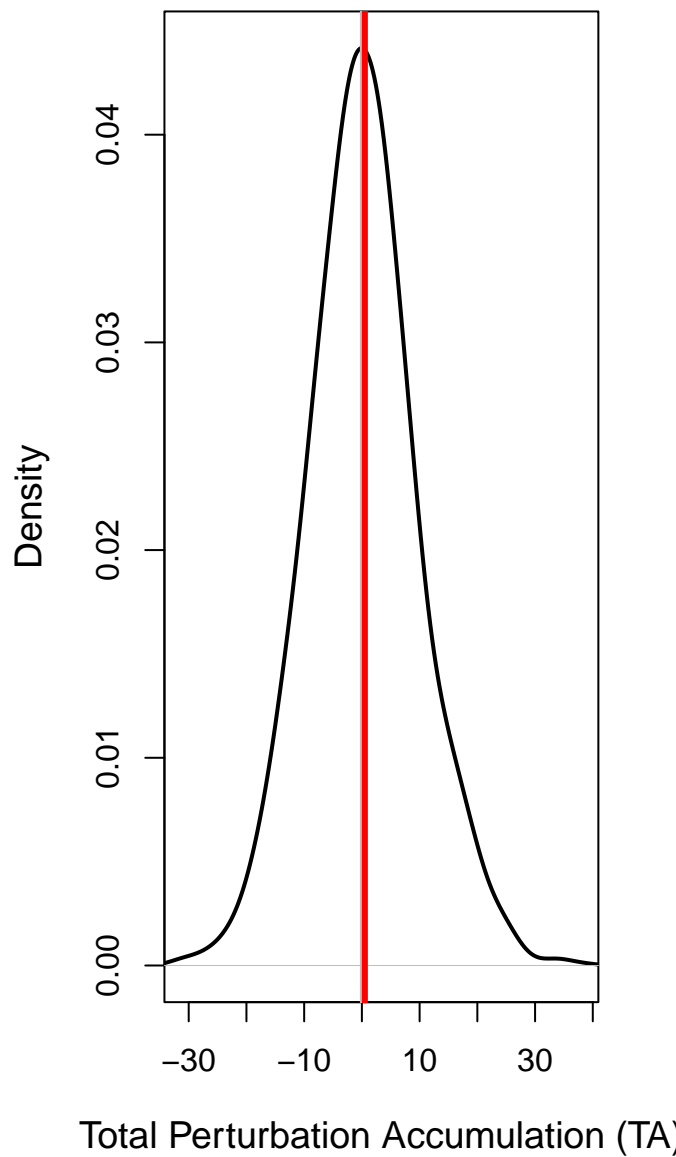
pathway ID=05213 P PERT=0.295



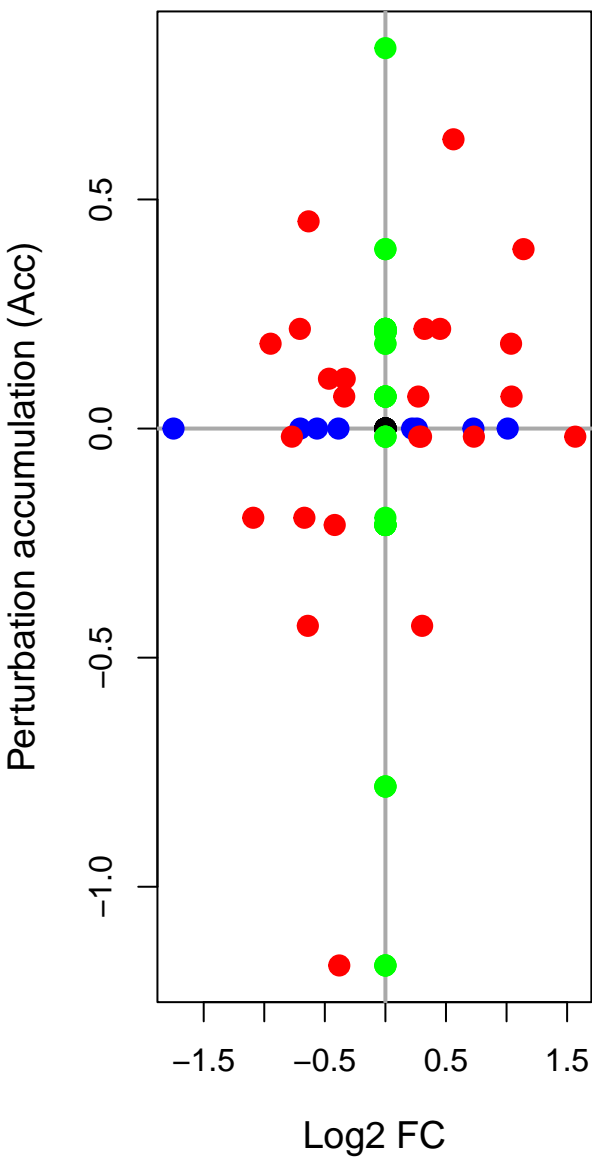
pathway ID=05214



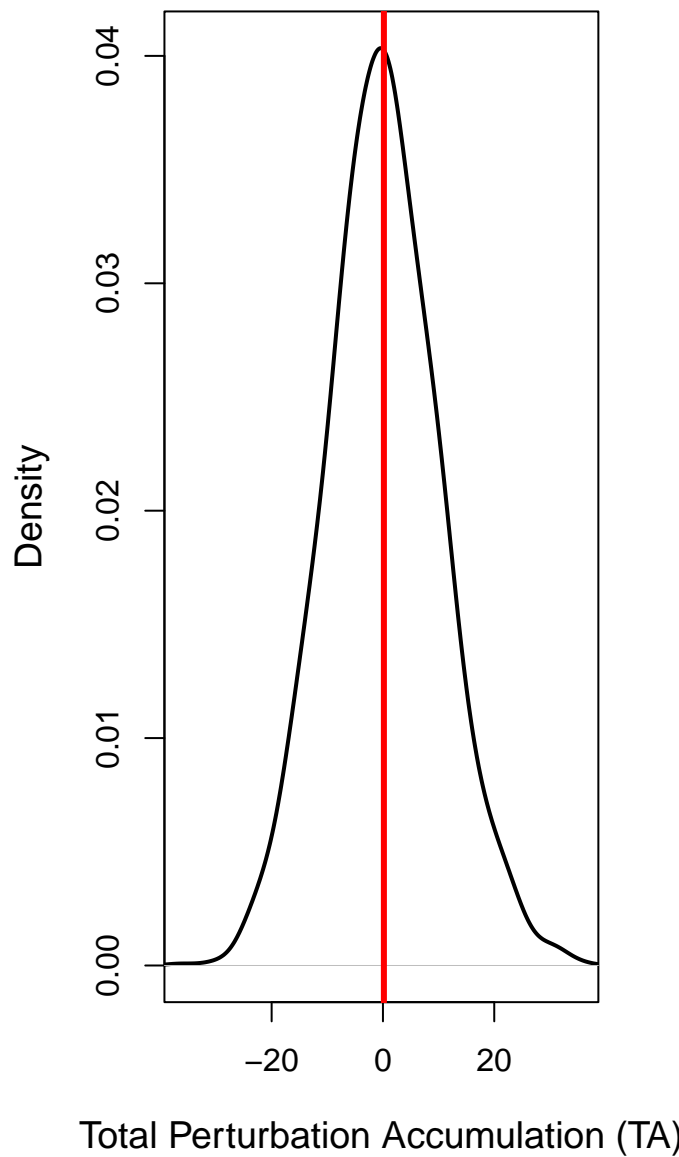
pathway ID=05214 P PERT=0.946



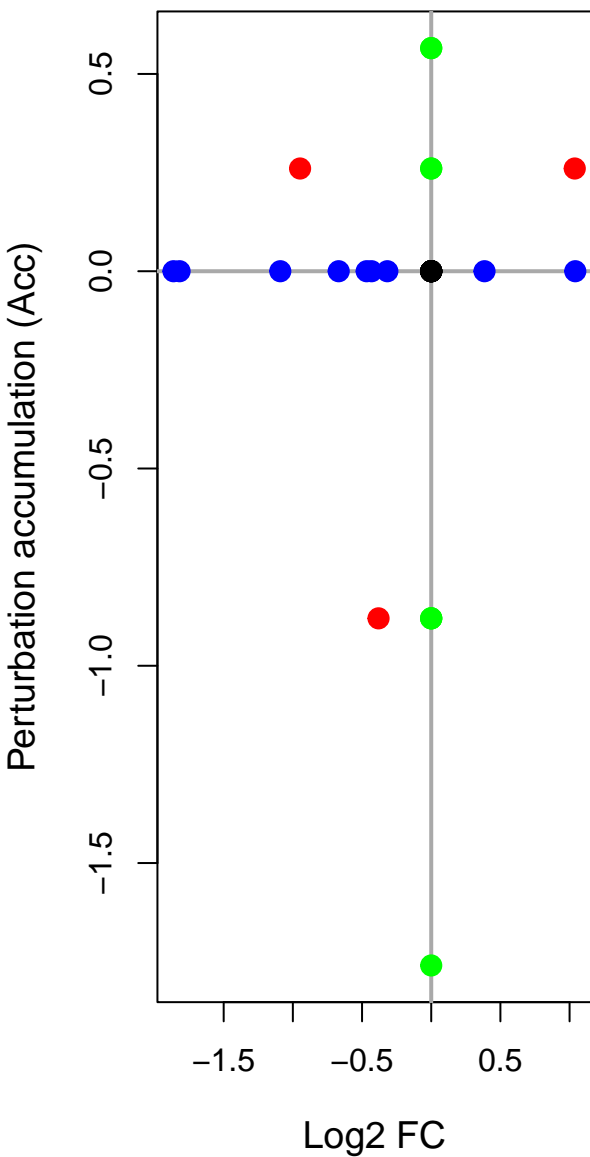
pathway ID=05215



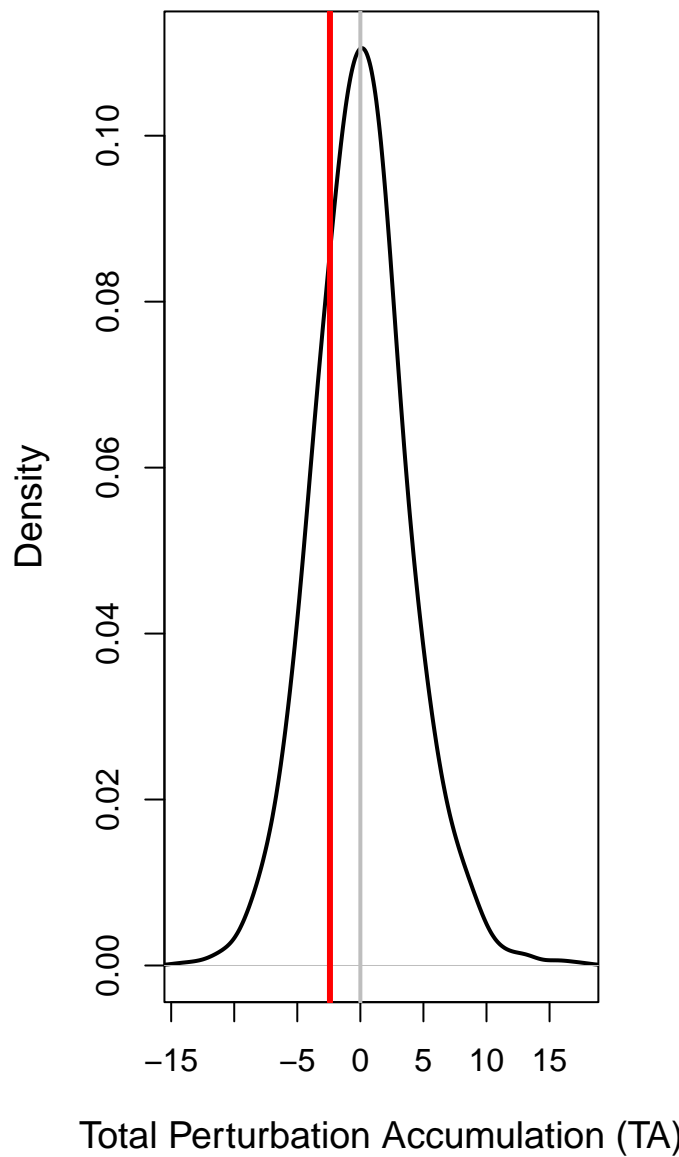
pathway ID=05215 P PERT=0.978



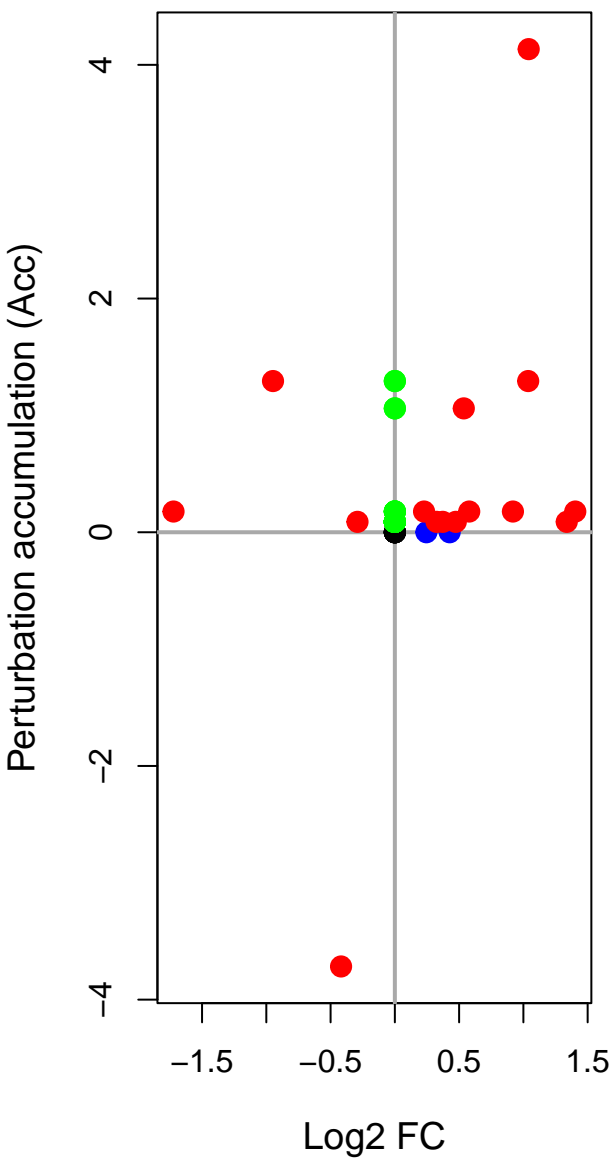
pathway ID=05216



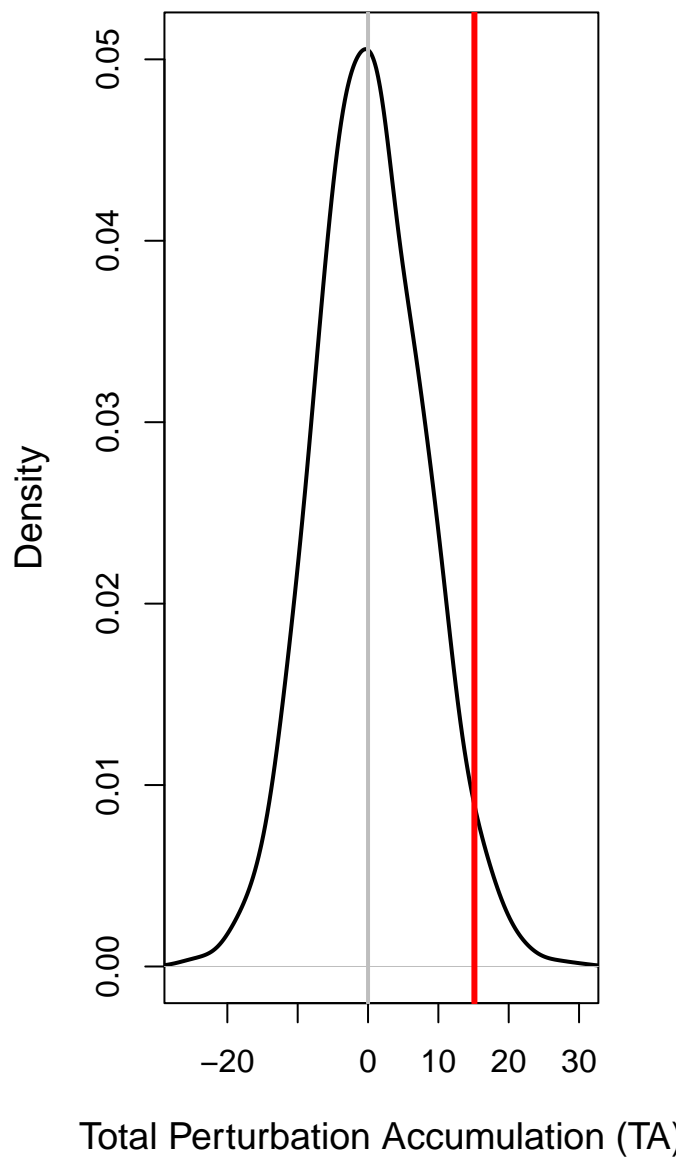
pathway ID=05216 P PERT=0.495



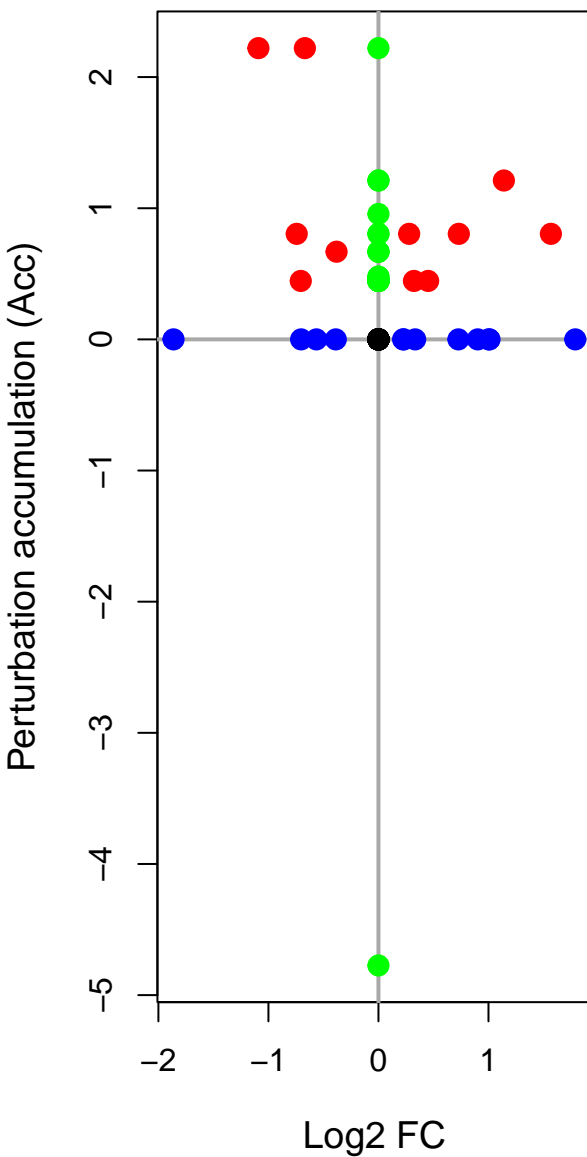
pathway ID=05217



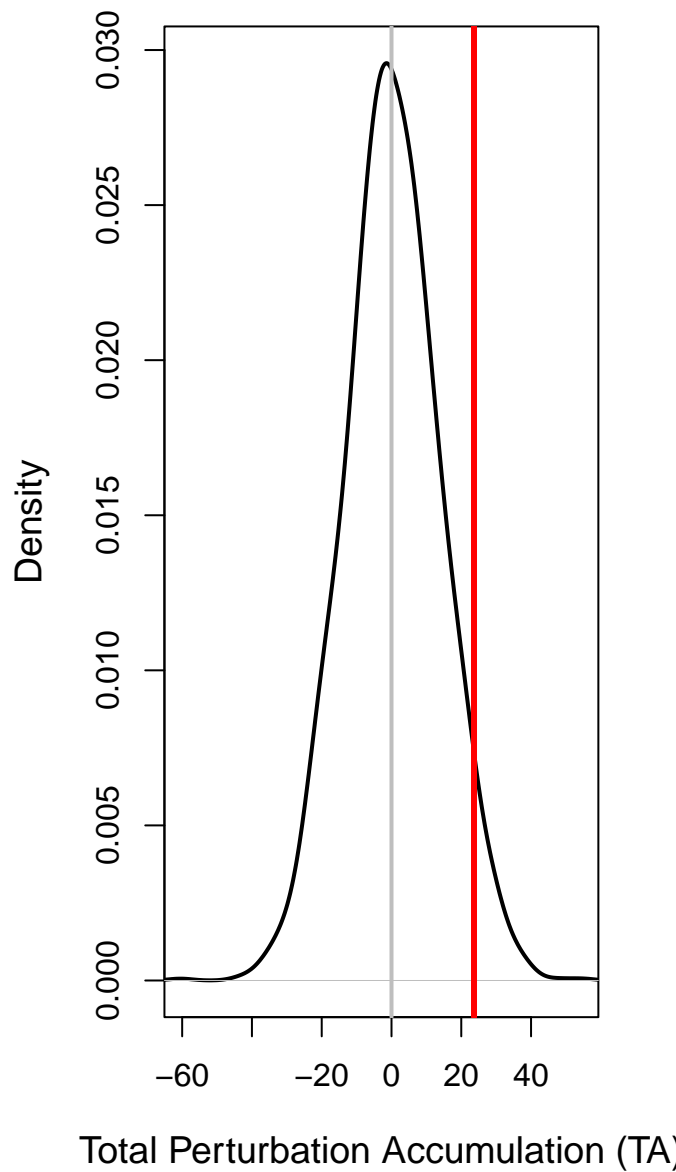
pathway ID=05217 P PERT=0.065



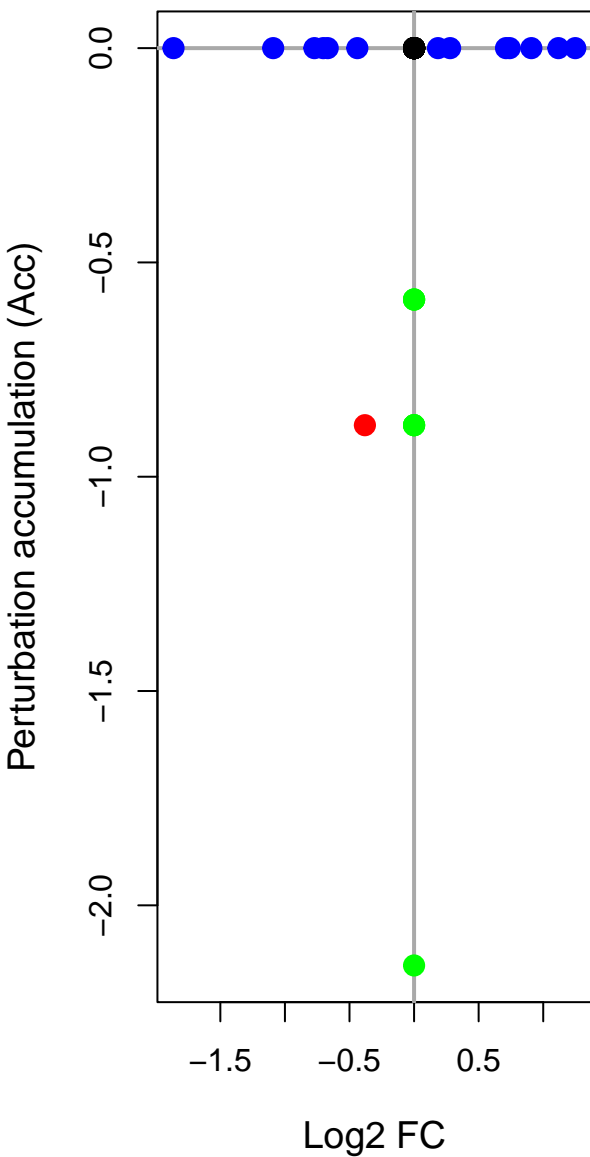
pathway ID=05218



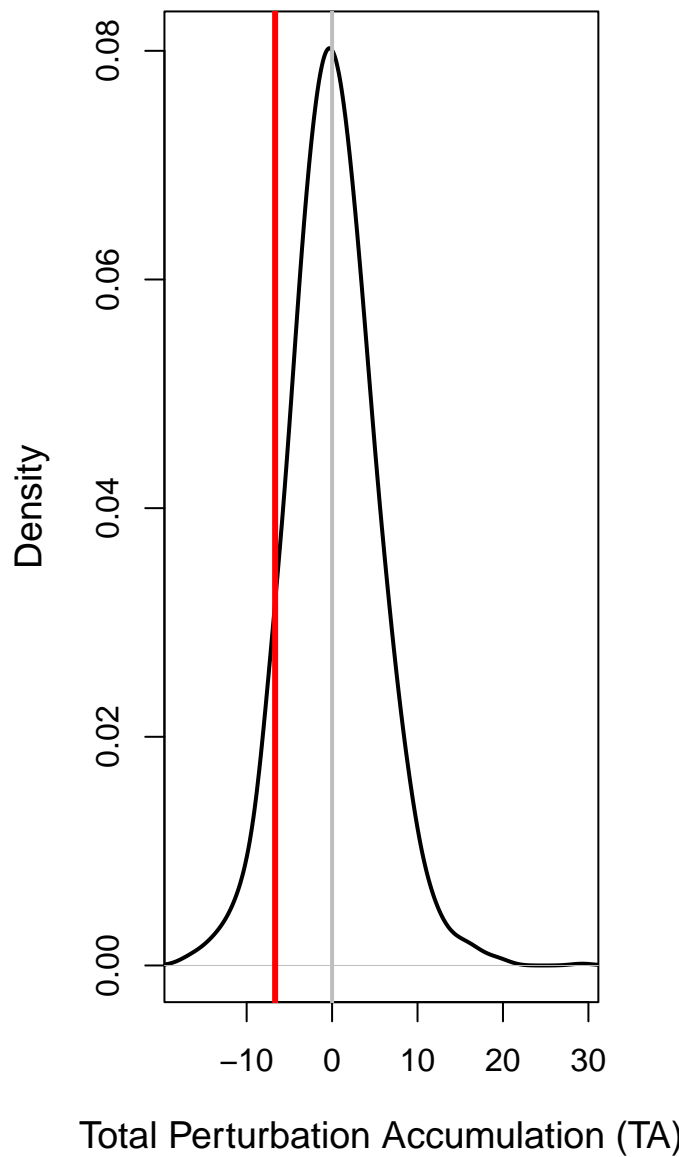
pathway ID=05218 P PERT=0.088



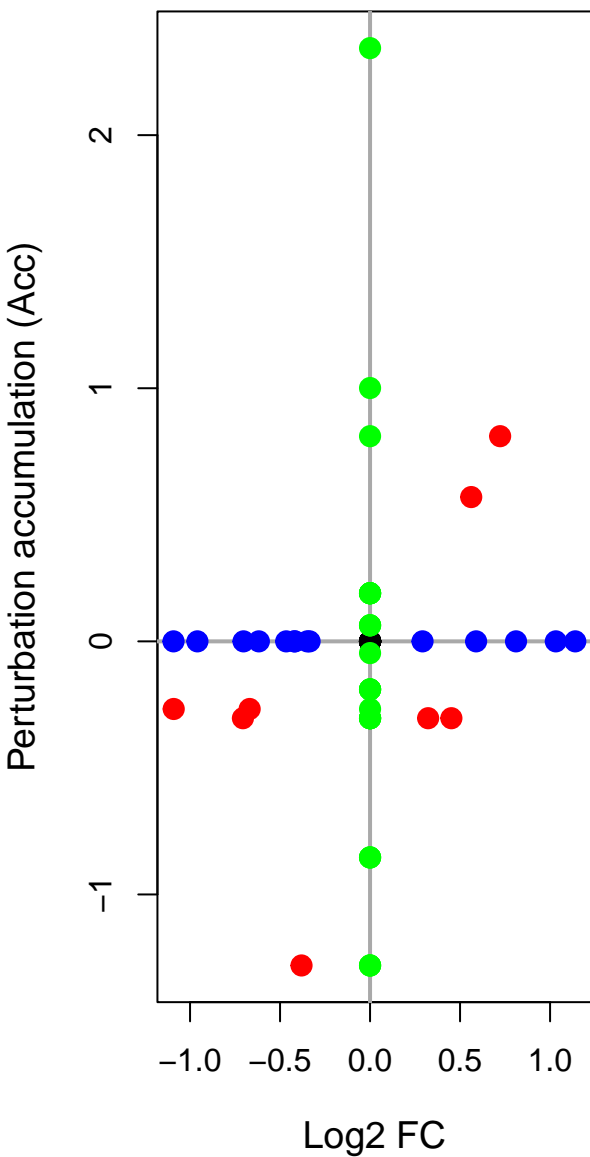
pathway ID=05219



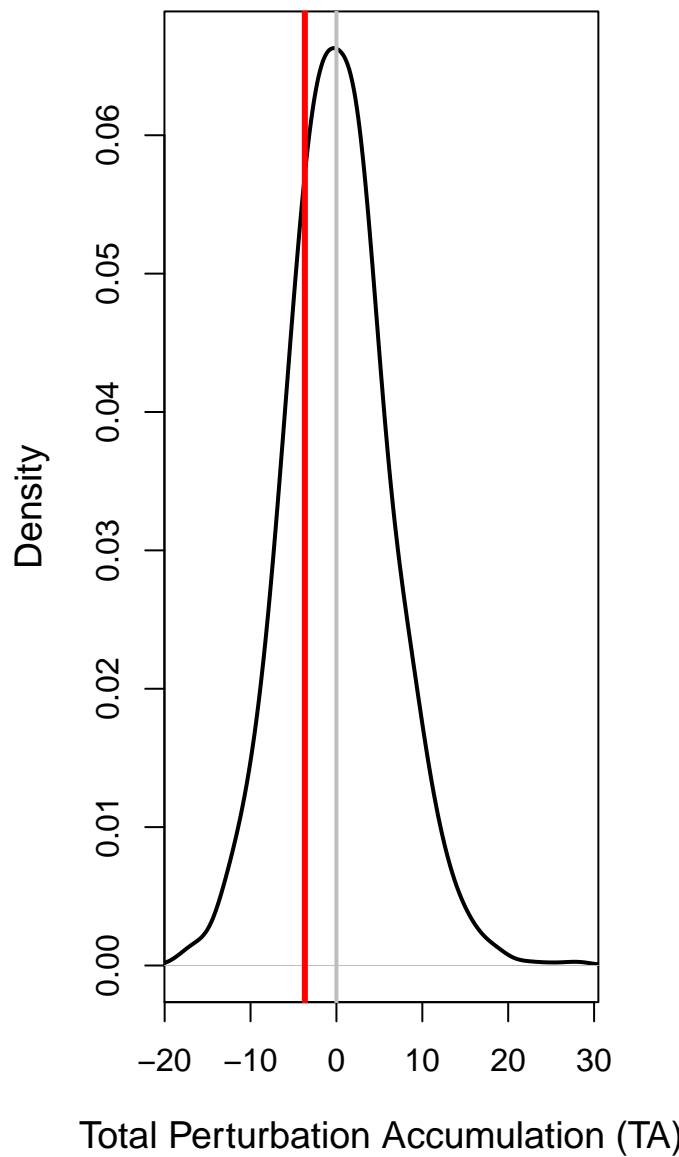
pathway ID=05219 P PERT=0.171



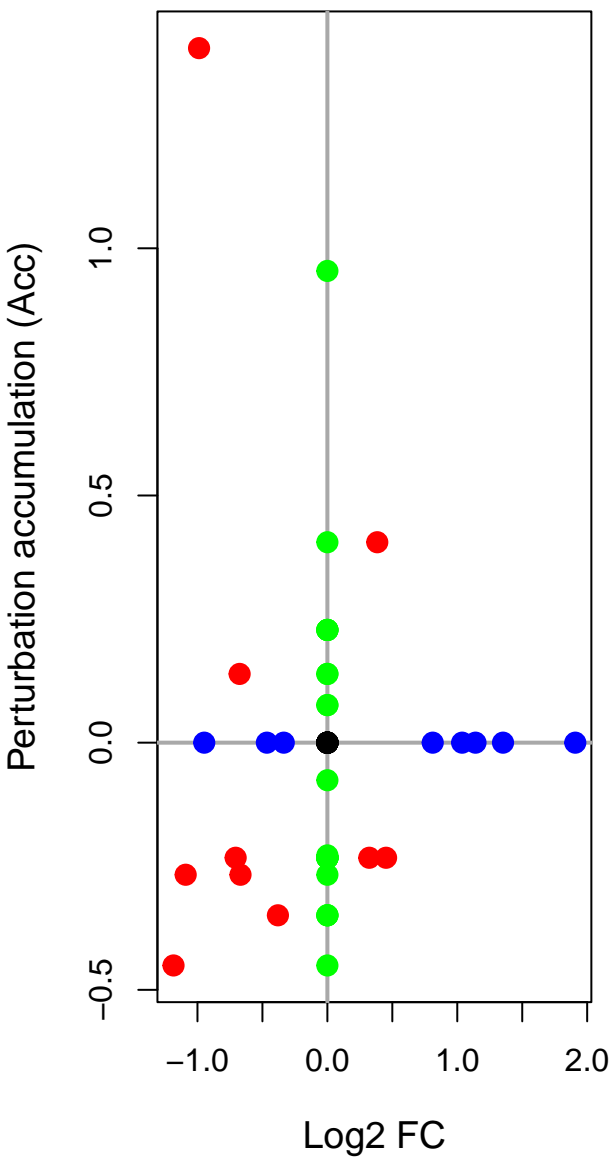
pathway ID=05220



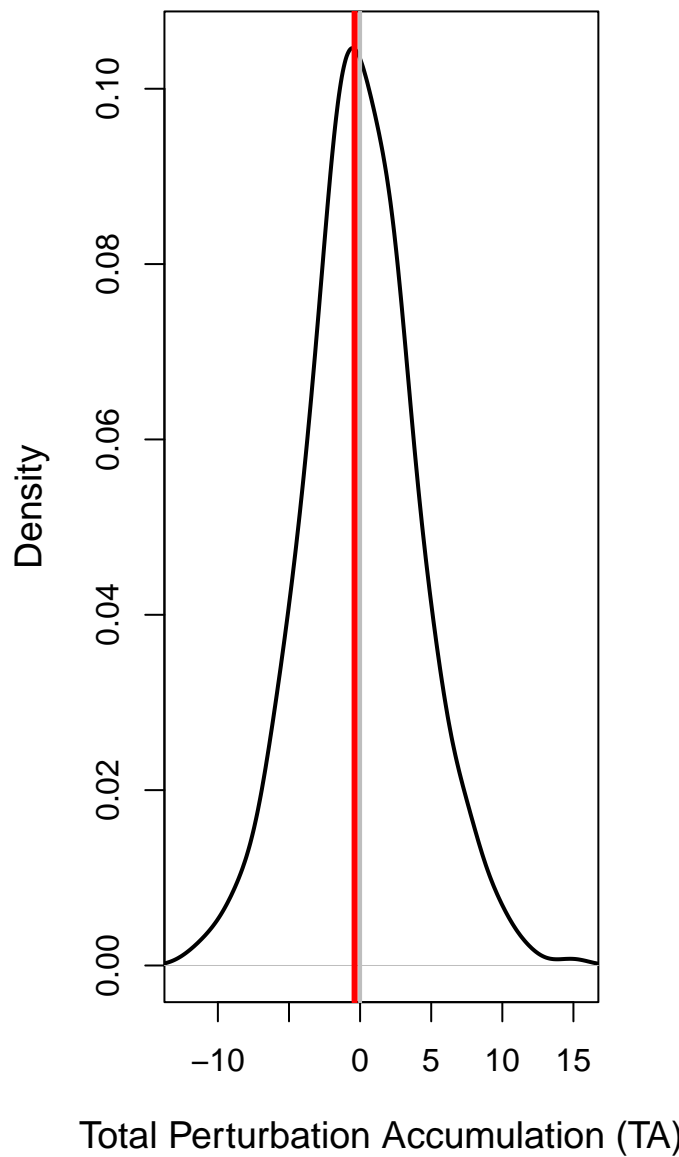
pathway ID=05220 P PERT=0.505



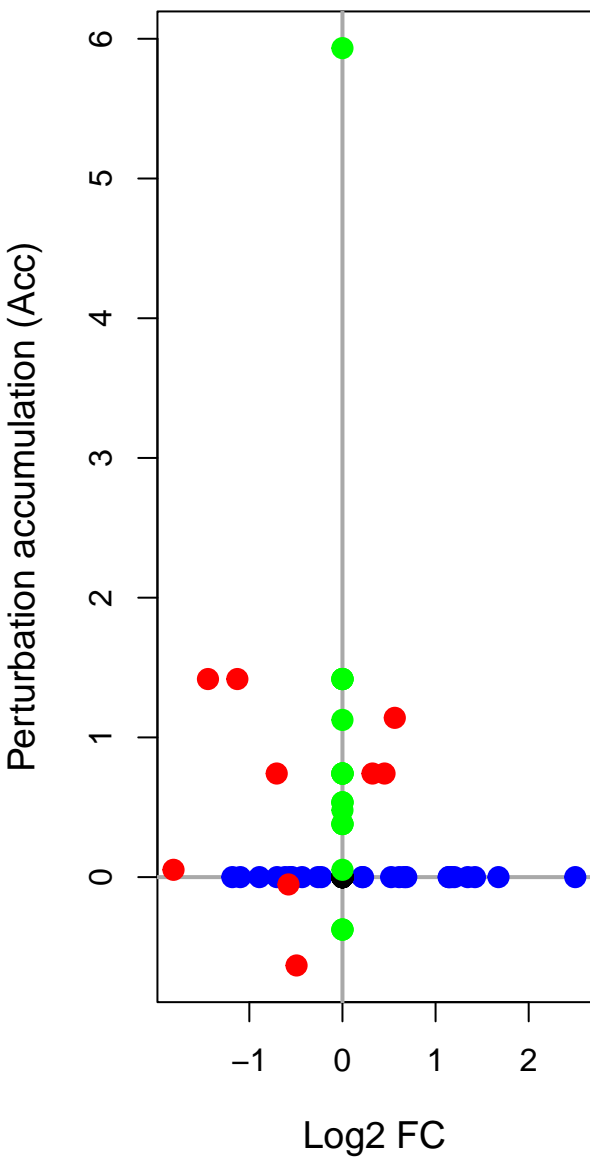
pathway ID=05221



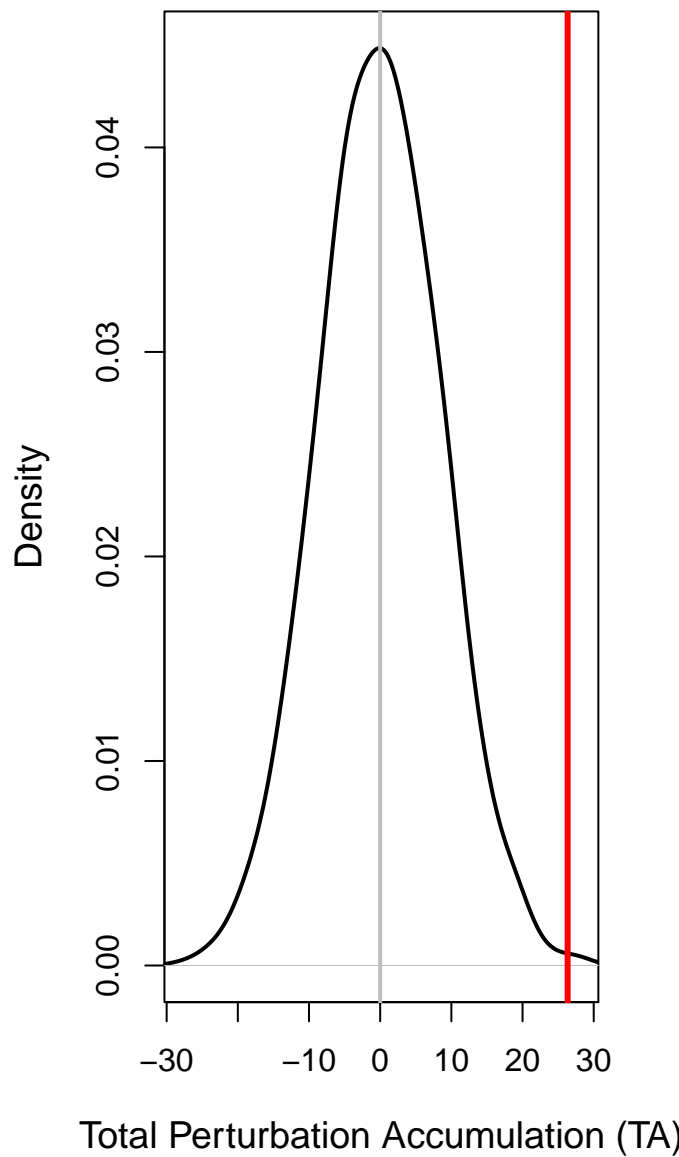
pathway ID=05221 P PERT=0.915



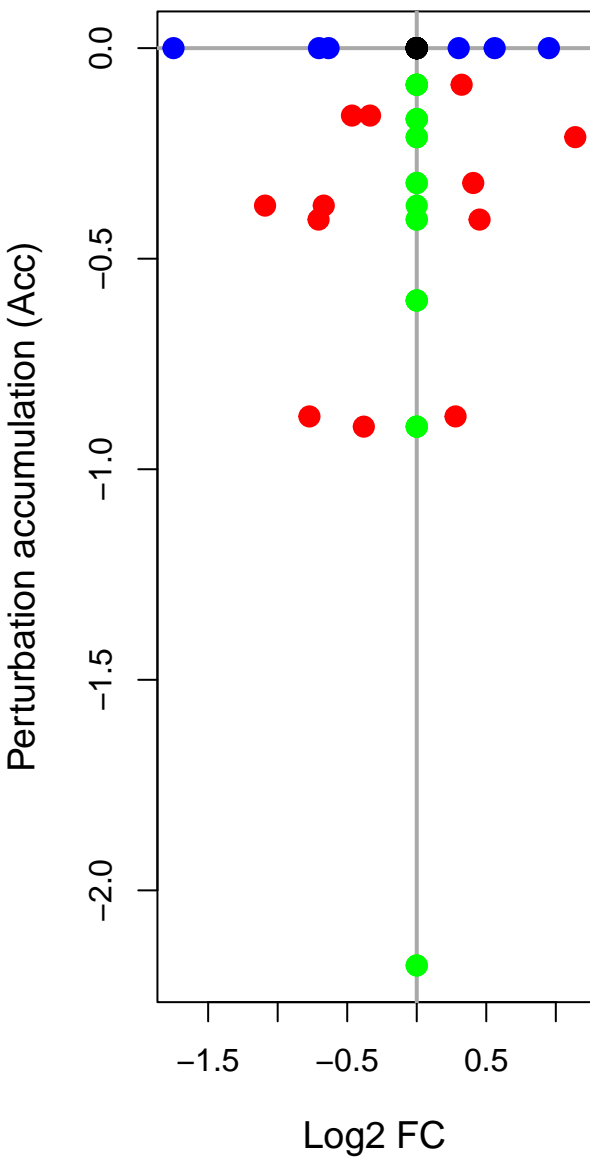
pathway ID=05222



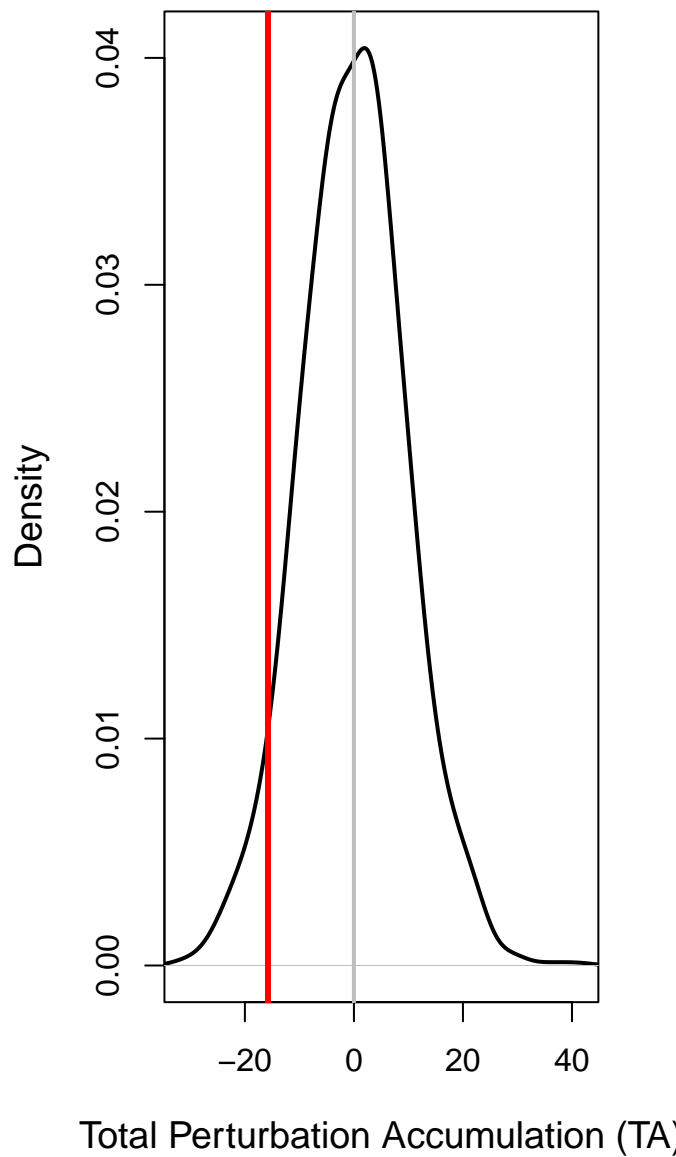
pathway ID=05222 P PERT=0.004



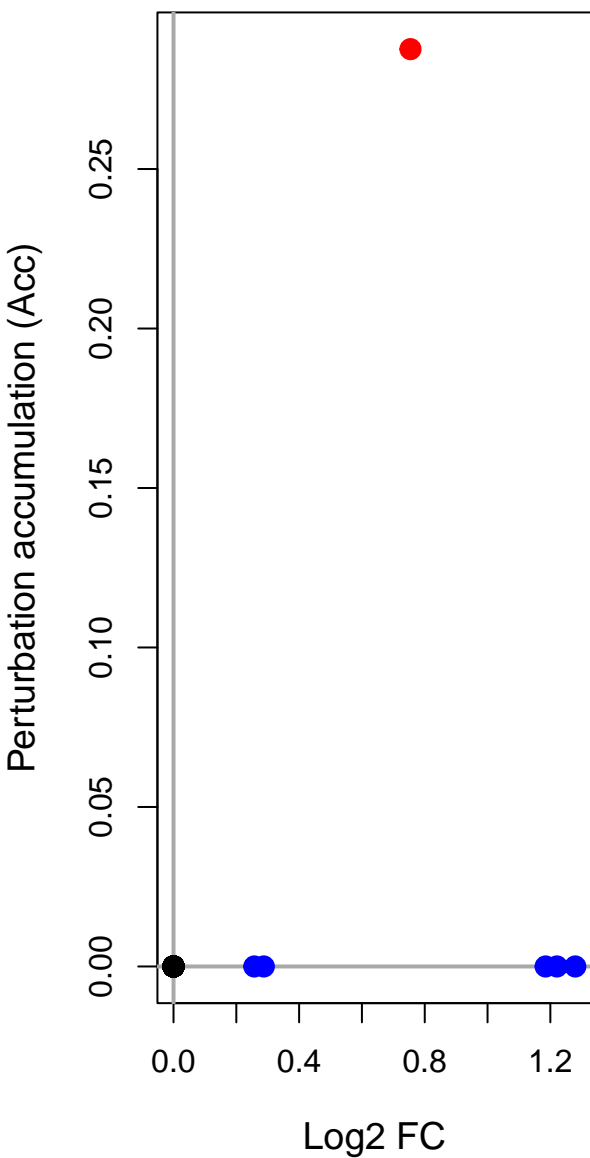
pathway ID=05223



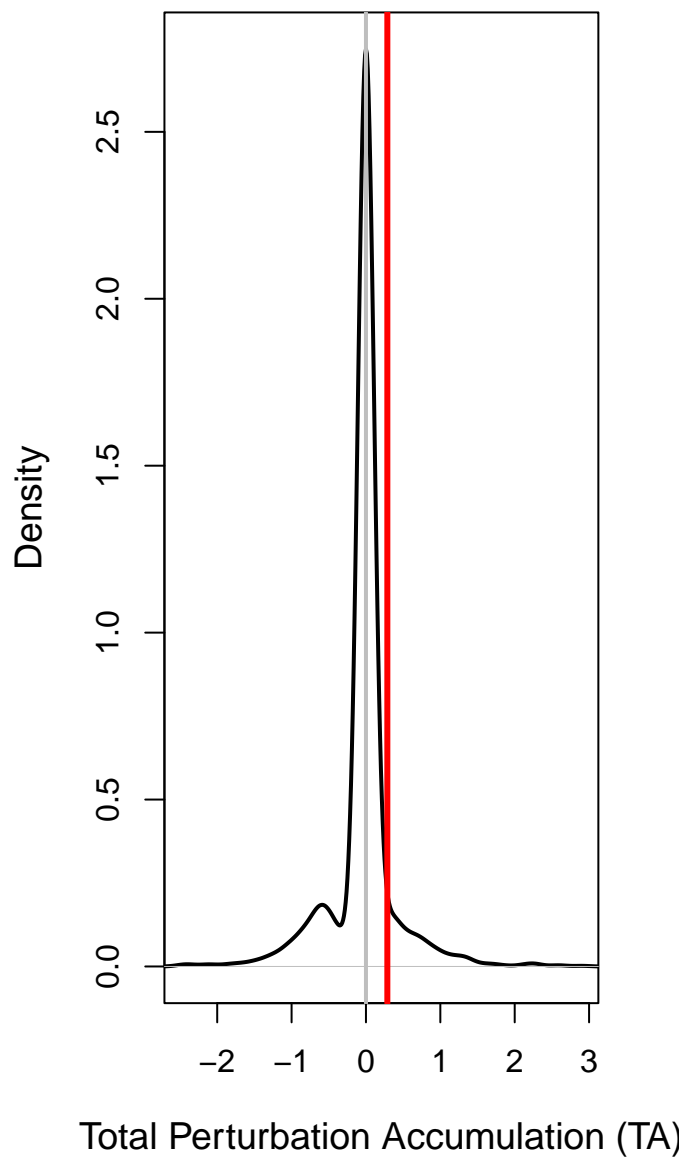
pathway ID=05223 P PERT=0.104



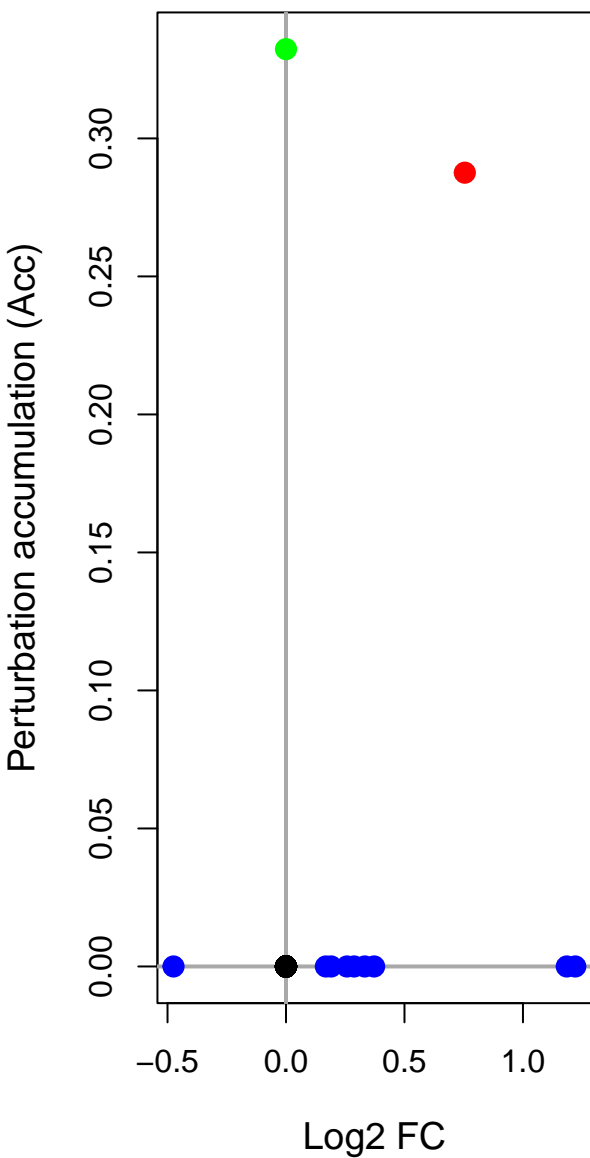
pathway ID=05310



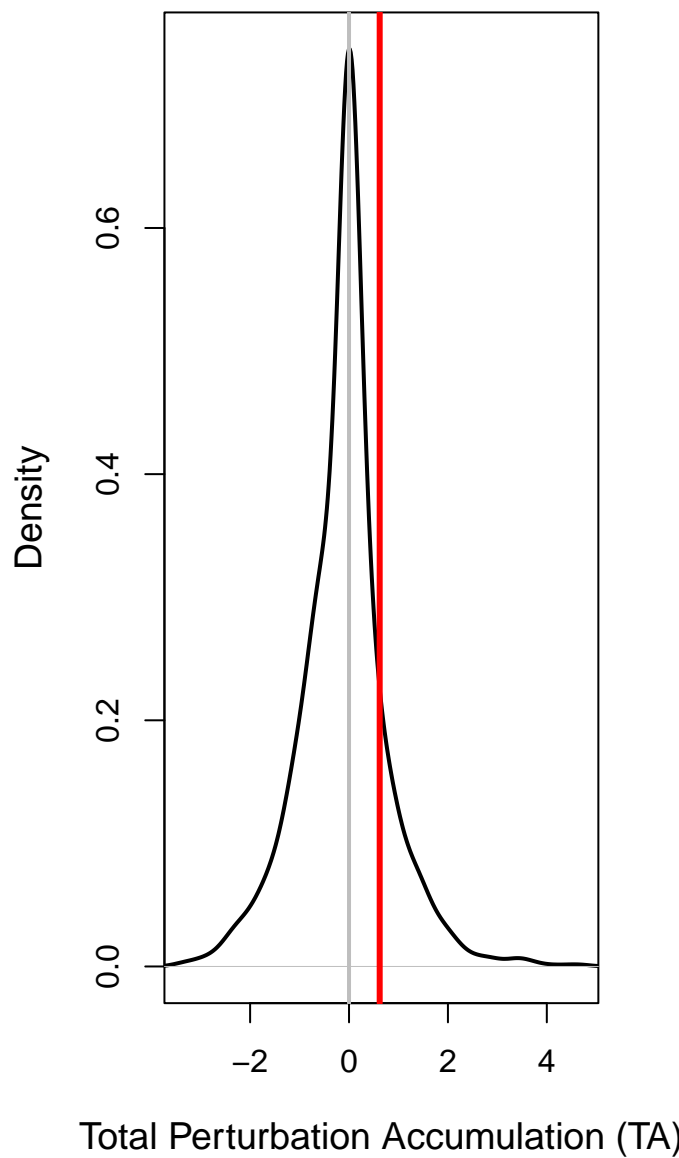
pathway ID=05310 P PERT=0.199



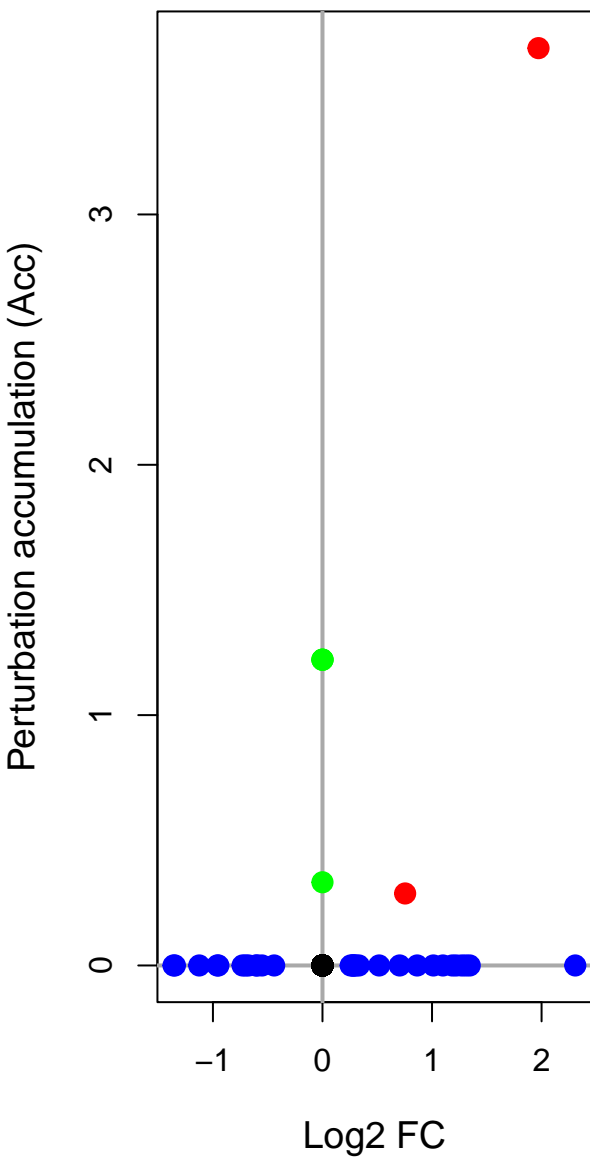
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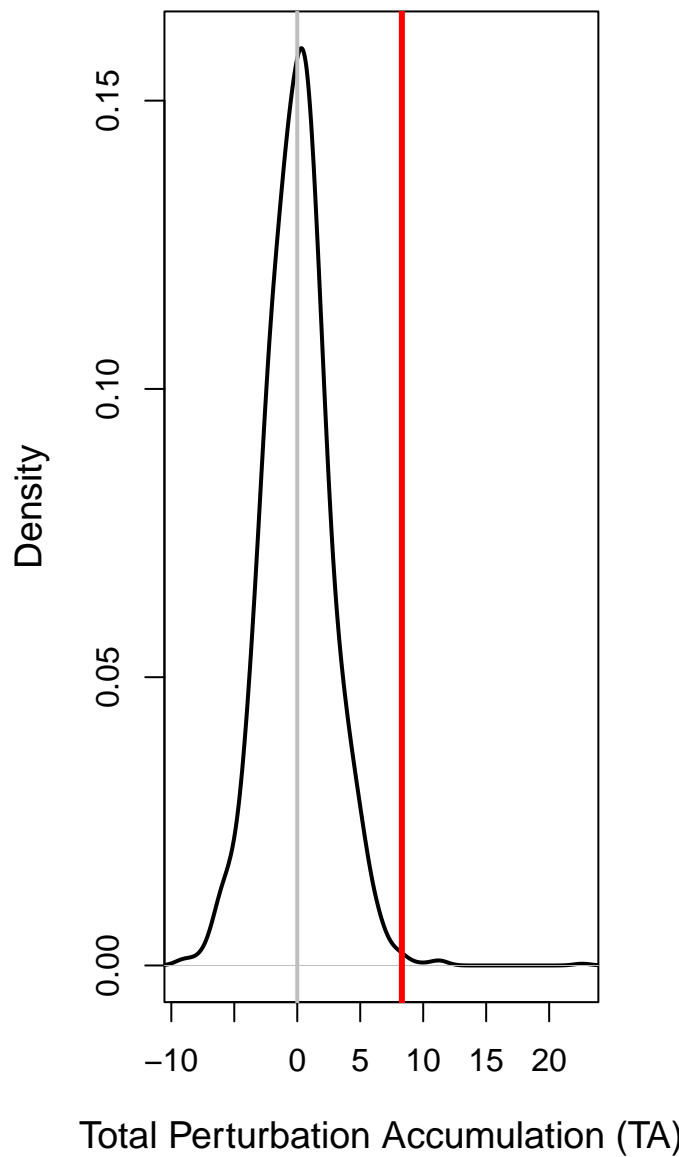
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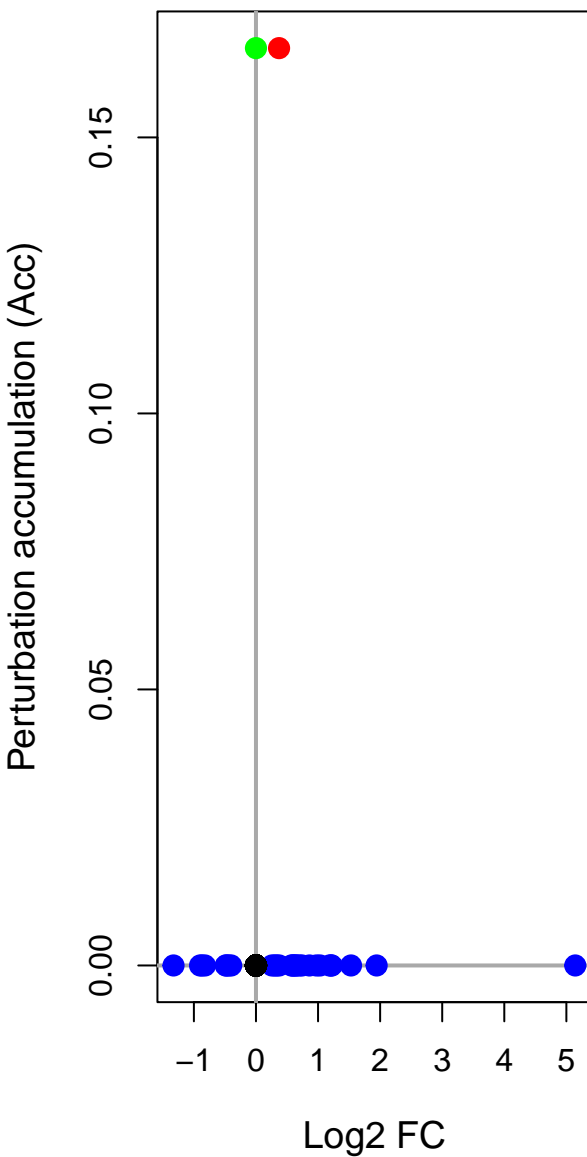
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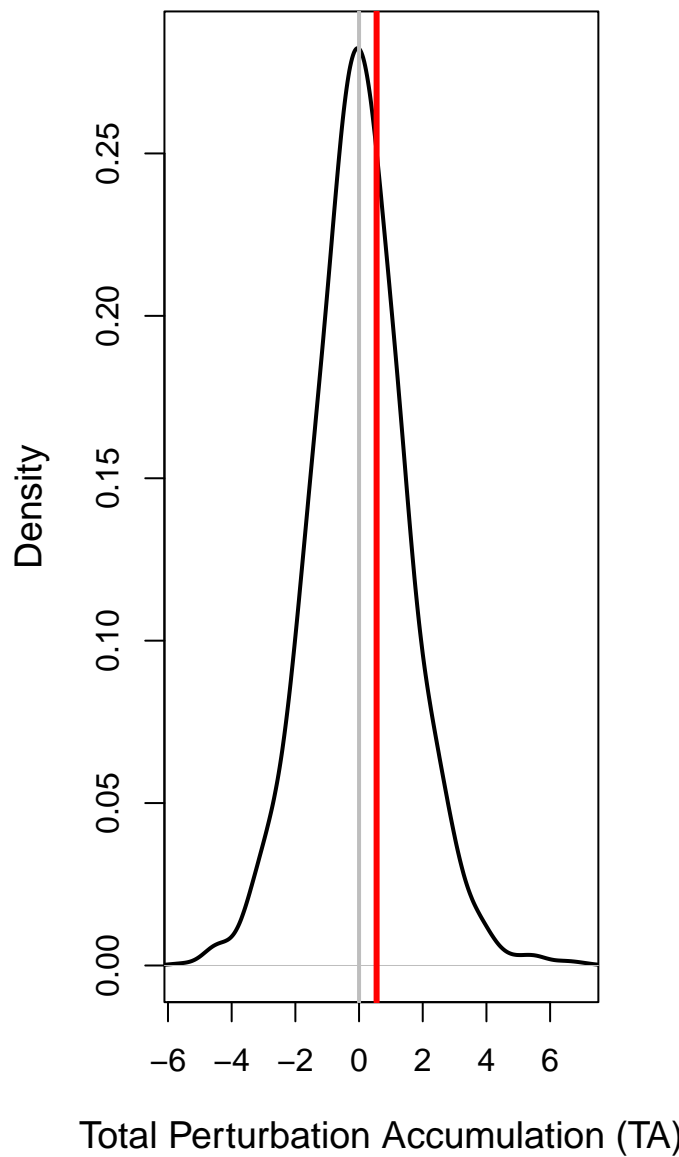
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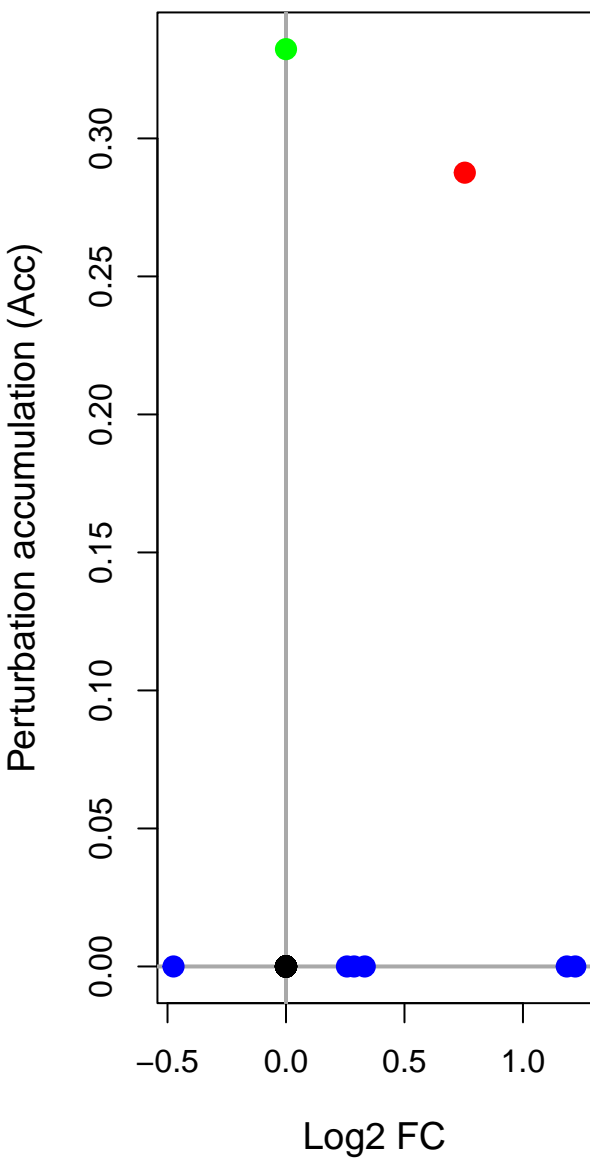
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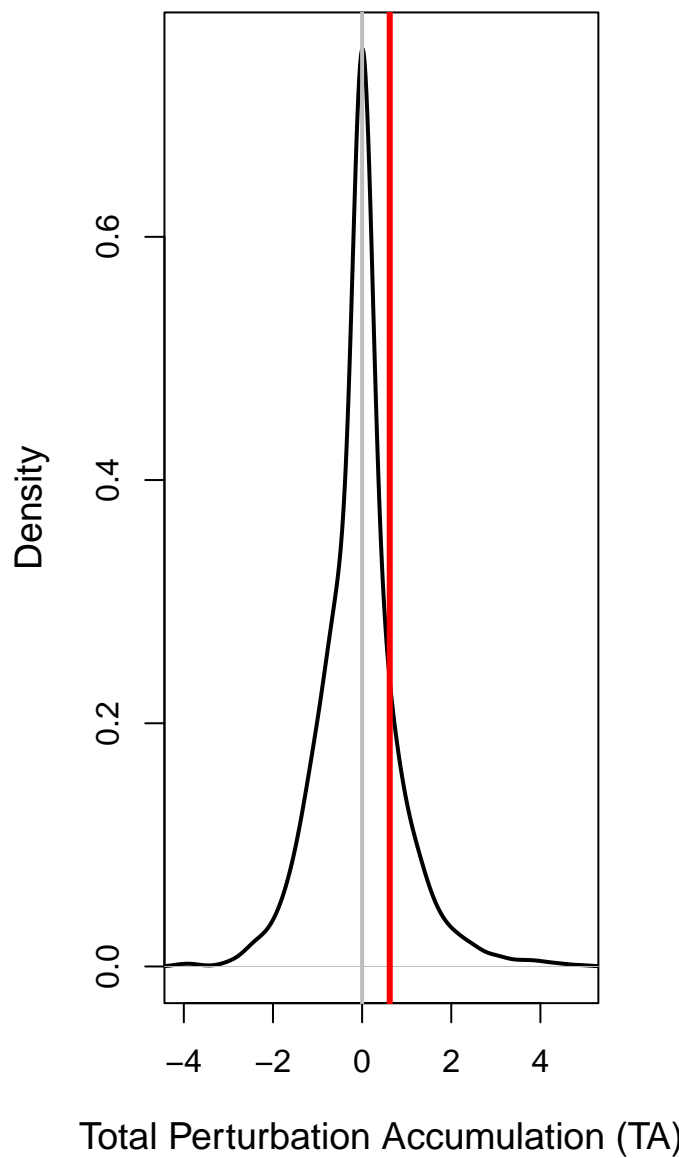
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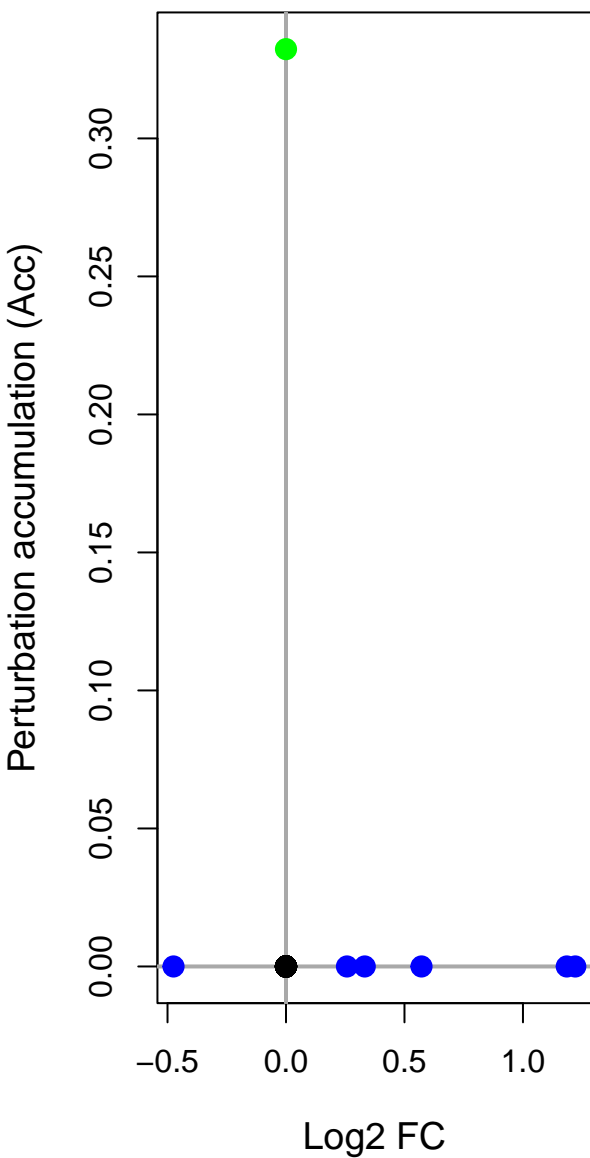
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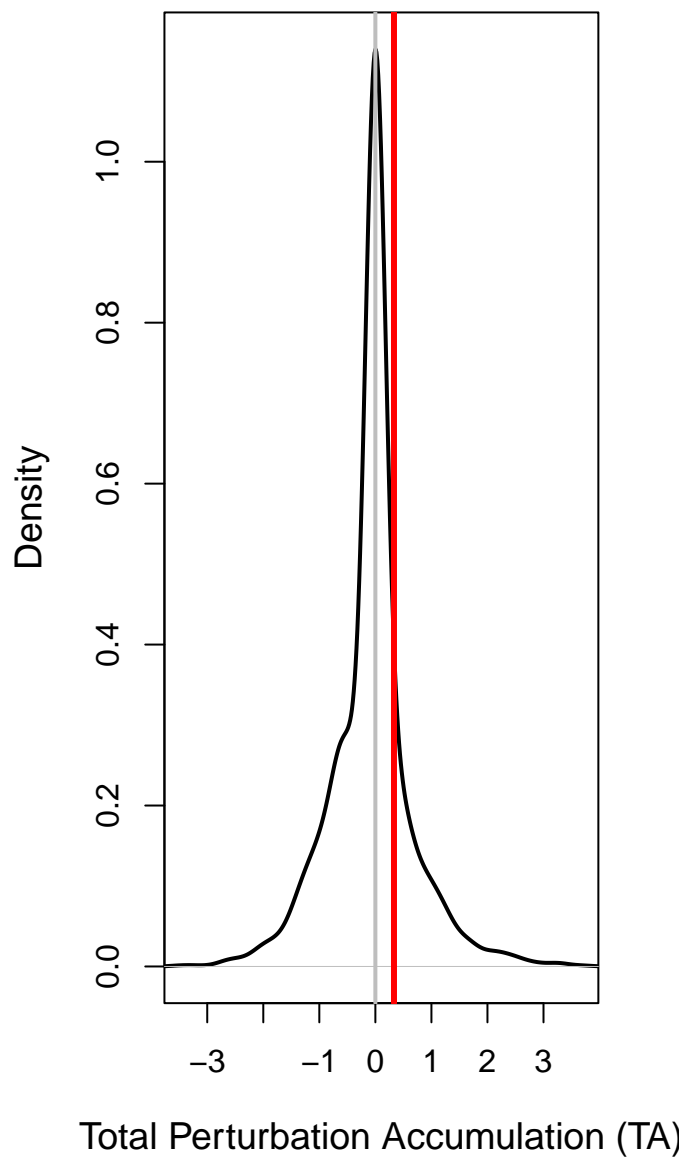
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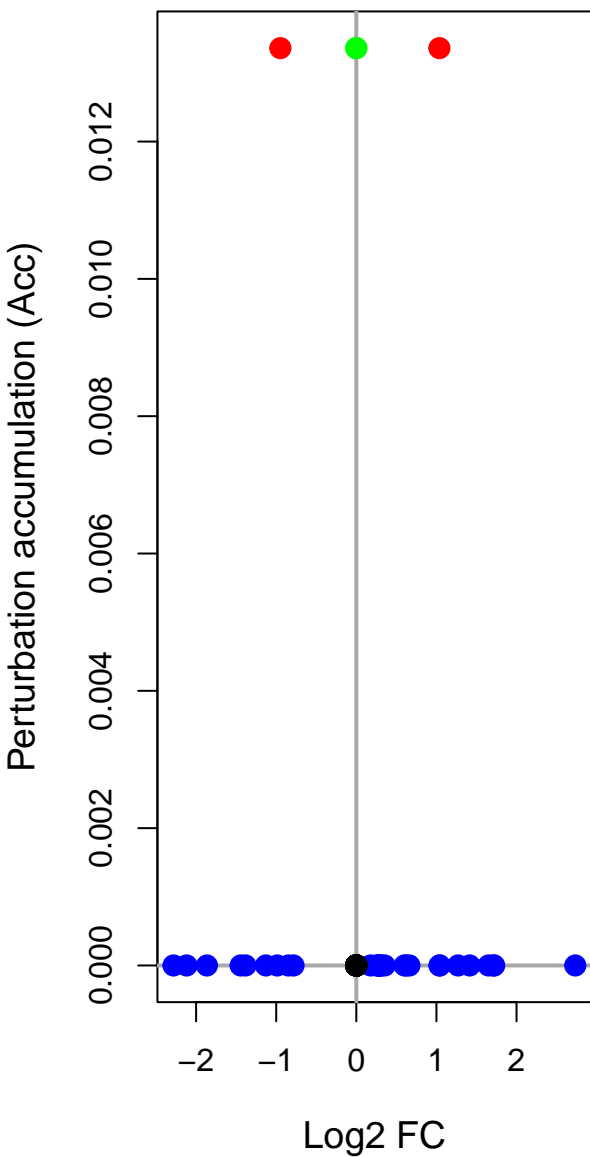
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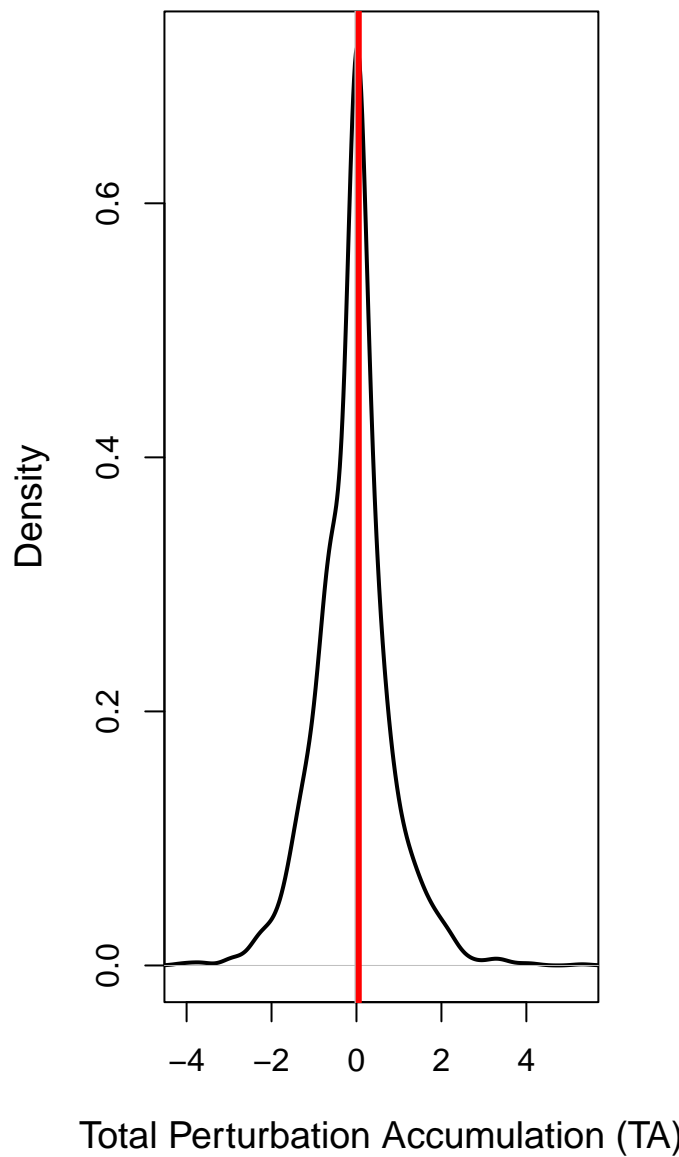
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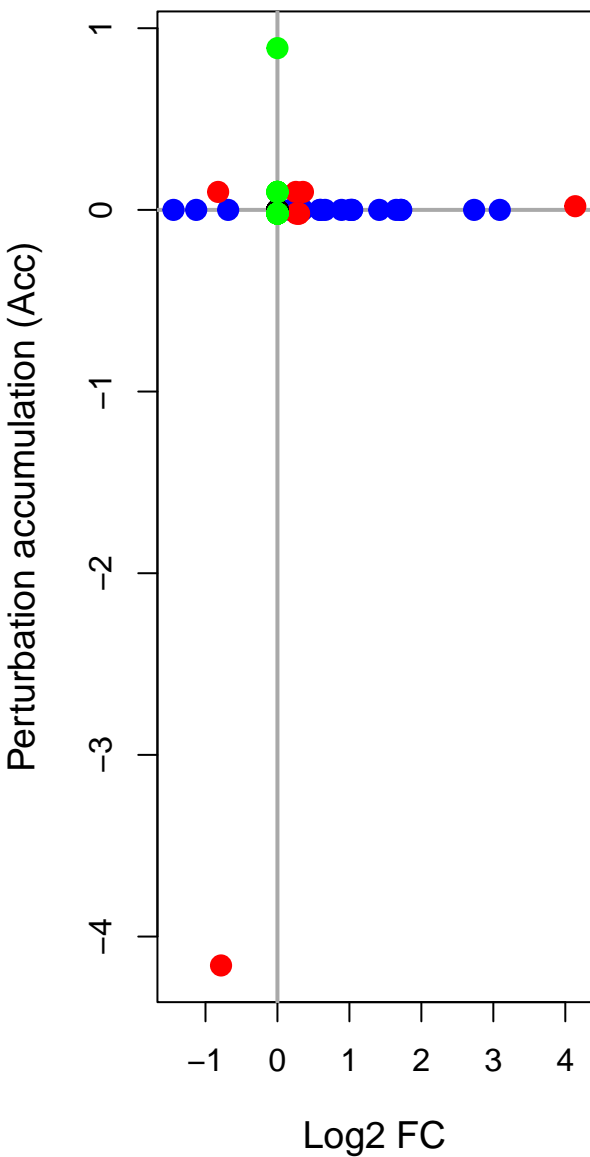
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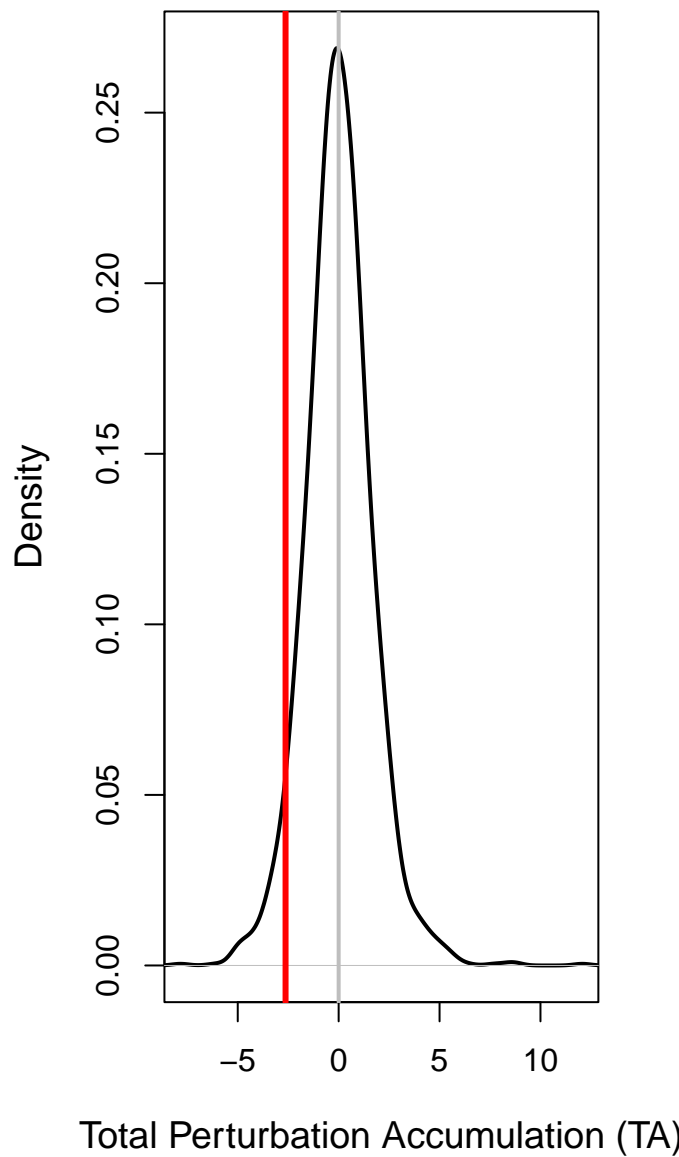
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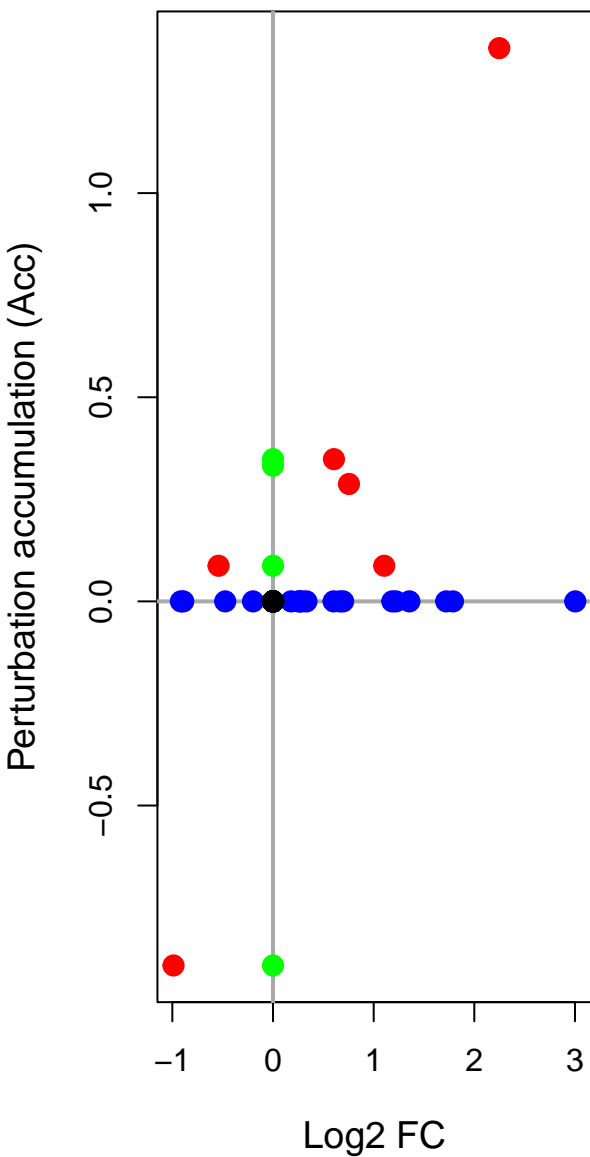
pathway ID=05414



pathway ID=05414 P PERT=0.095



pathway ID=05416



pathway ID=05416 P PERT=0.591

