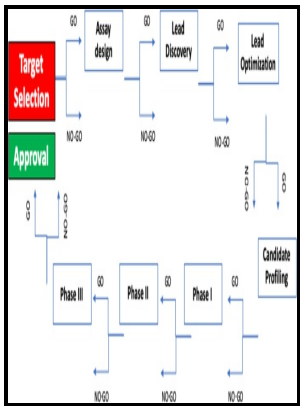
Pathway analysis for drug discovery - computational infrastructure and applications

John Wiley & Sons - Network analysis has diverse roles in drug discovery



Description: -
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Microarray Analysis -- methods
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Drug development -- Data processingPathway analysis for drug discovery - computational infrastructure and applications
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Dramabook
Wiley series on technologies for the pharmaceutical industryPathway analysis for drug discovery - computational infrastructure and applications
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Network analysis has diverse roles in drug discovery

In this case, the sign of the ES indicates whether a pathway is activated or inhibited by the drugs in the set.

Pathway Analysis for Drug Discovery: Computational Infrastructure and Applications

Each row is ranked according to how much the drug in the column upregualtes or downregulates the genes in the pathway.

Pathway Analysis for Drug Discovery: Computational Infrastructure and Applications: 9780470107058: Medicine & Health Science Books @ metrics.learnindialearn.in

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The P-value obtained by chance is close to 0.

Pathway Analysis for Drug Discovery: Computational Infrastructure and Applications by Anton Yuryev

We included 11 drugs in the drug-set according to the following criteria: i a DF508CFTR corrector activity is reported in literature, and ii GEPs were available in the cMap dataset. We hypothesize that the sub-set of drugs in the TI drug-set not targeting TOP2 3 out of 9 in the set may partly contribute to decrease the robustness of DSEA in this case. Indeed, the set of positive hits following an HTS or HCS typically includes small-molecules with unknown mode-of-action MoA or whose MoA are so different from each other, that no hint on the shared molecular mechanisms underlying their efficacy can be gained.

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