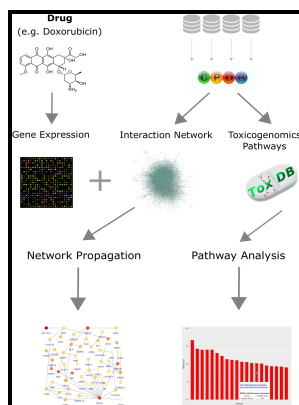


Pathway analysis for drug discovery - computational infrastructure and applications

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



Description: -

- Microarray Analysis -- methods

Computational Biology

Drug Design

Computational biology

DNA microarrays -- Data processing

Drug development -- Data processing
Pathway analysis for drug discovery - computational infrastructure and applications

-

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Pathway analysis for drug discovery - computational infrastructure and applications

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

Trichostatin-A HDAC Inhibitors Inhibits HDAC1, HDAC3, HDAC8 and HDAC7.

Pathway Analysis for Drug Discovery: Computational Infrastructure and Applications: 9780470107058: Medicine & Health Science Books @ perssongroup.materialsproject.org

For each drug-set, we then added to the golden-standard all the Gene Ontology GO pathways containing the chosen drug target. DSEA correctly identifies the golden-standard pathways even when up to three random drugs are added to the drug-set 75% of the drug-set To test the convergence properties of DSEA, we ran the analysis by varying the number of drugs in the drug-sets, in order to understand how many drugs were needed in order for the golden standard pathways to become significant.

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

On the contrary, molecules binding different targets can induce the same phenotype, when they act in the same pathway.

Pathway Analysis for Drug Discovery: Computational Infrastructure and Applications by John Wiley and Sons Ltd (Hardback, 2008) for sale online

Nevertheless, also in this case DSEA was able to detect a strong signal related to the chloride channel complex, which was ranked as the first most significant pathway in the GO-CC category. This result is in line with the common mode of action of antineoplastic drugs, particularly alkylating agents, which are the most enriched class of drugs in this drug-set.

Network analysis has diverse roles in drug discovery

Novel computational approaches to improve the effectiveness and efficiency of drug discovery With chapters contributed by pioneers in the field, Pathway Analysis for Drug Discovery offers readers both important new research findings and state-of-the-science reviews. Acknowledgement

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Pathway Analysis for Drug Discovery: Computational Infrastructure and Applications

His department studies the topological and evolutionary properties of biological networks and develops algorithms for pathway reconstruction and analysis of high-throughput data.

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