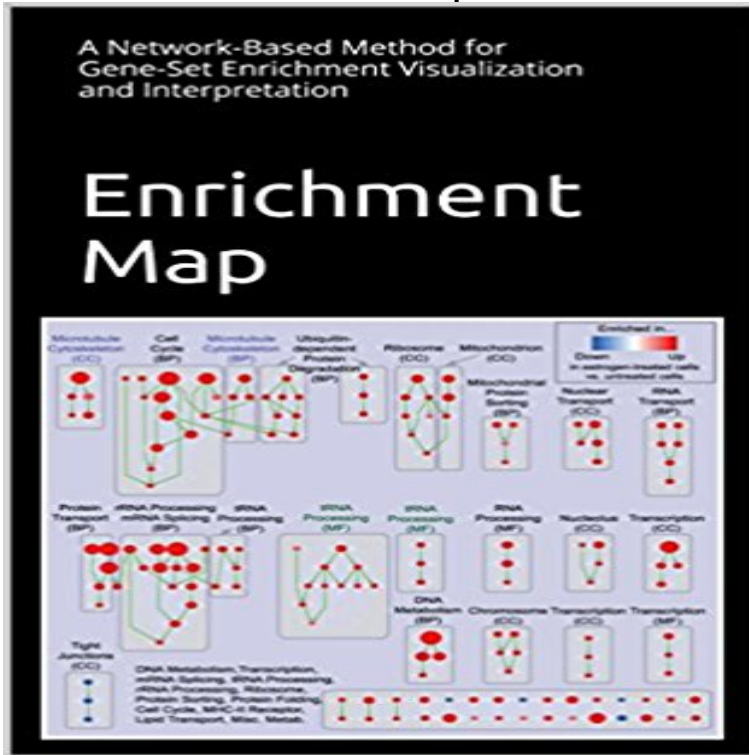


Enrichment Map: A Network-Based Method for Gene-Set Enrichment Visualization and Interpretation



Background Gene-set enrichment analysis is a useful technique to help functionally characterize large gene lists, such as the results of gene expression experiments. This technique finds functionally coherent gene-sets, such as pathways, that are statistically over-represented in a given gene list. Ideally, the number of resulting sets is smaller than the number of genes in the list, thus simplifying interpretation. However, the increasing number and redundancy of gene-sets used by many current enrichment analysis software works against this ideal. Principal Findings To overcome gene-set redundancy and help in the interpretation of large gene lists, we developed Enrichment Map, a network-based visualization method for gene-set enrichment results. Gene-sets are organized in a network, where each set is a node and edges represent gene overlap between sets. Automated network layout groups related gene-sets into network clusters, enabling the user to quickly identify the major enriched functional themes and more easily interpret the enrichment results. Conclusions Enrichment Map is a significant advance in the interpretation of enrichment analysis. Any research project that generates a list of genes can take advantage of this visualization framework. Enrichment Map is implemented as a freely available and user friendly plug-in for the Cytoscape network visualization software (<http://baderlab.org/Software/EnrichmentMap/>).

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Statistical Diagnostics for Cancer: Analyzing High-Dimensional Data - Google Books Result binary protein interaction map of the yeast interactome network. Science, 322 (5898) (2003) DAVID: database for annotation, visualization, and integrated discovery. Genome Biol., 4 (5), R60 (2010) Enrichment map: a network-based method for gene-set enrichment visualization and interpretation. PLoS ONE, 5, e13984 **PLOS ONE: Enrichment Map: A Network-Based Method for Gene** Article in Methods in molecular biology (Clifton, N.J.) 781:257-77 January 2011 with 68 Reads Enrichment Map is a Cytoscape plug-in that helps overcome gene-set redundancy and aids in the interpretation of enrichment results. This network-based approach is especially useful for modeling interaction networks of **PubMed Result - NCBI** Title: Enrichment Map: A Network-Based Method for Gene-Set Enrichment Visualization and Interpretation. Language: English Authors: Merico, Daniele1 **PubMed Result - NCBI** Nov 27, 2016 - 21 sec - Uploaded by poppyEnrichment Map A Network Based Method for Gene Set Enrichment Visualization and **Enrichment Map: A Network-Based Method for Gene-Set Enrichment** 7: Merico D, Isserlin R, Stueker O, Emili A, Bader GD. Enrichment map: a network-based method for gene-set enrichment visualization and interpretation. **Enrichment Map: A Network-Based Method for Gene-Set Enrichment** Nov 14, 2010 Enrichment Map: A Network-Based Method for Gene-Set Enrichment Visualization and Interpretation. Published on - 16:10 **Enrichment Map A Network Based Method for Gene Set - YouTube** Nov 15, 2010 Background Gene-set enrichment analysis is a useful **A Picture is Worth a Thousand Tables: Graphics in Life Sciences - Google Books Result** 4: Merico D, Isserlin R, Stueker O, Emili A, Bader GD. 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PLoS One 5(11):e13984 Lawler **Enrichment Map - Bader Lab** **Enrichment Map: A Network-Based Method for Gene-Set Enrichment** Plugin name: EnrichmentMap. Description: Enrichment Map is a network-based method to visualize and interpret gene-set enrichment results. Project website: **Visualizing Gene-Set Enrichment Results Using the Cytoscape Plug** Gene-sets are organized in a network, where each set is a node and edges represent gene overlap between sets. quickly identify the major enriched functional themes and more easily interpret the enrichment results. Enrichment Map: A Network-Based Method for Gene-Set Enrichment Visualization and Interpretation. Mar 10, 2016 Enrichment Map is a Cytoscape plugin for functional enrichment visualization. Enrichment results In this way, mutually overlapping gene-sets cluster together, making interpretation easier. . Enrichment Map: A Network-Based Method for Gene-Set Enrichment Visualization and Interpretation Merico D **PLOS**

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