

**Background** The tools that are available to draw and to manipulate the representations of metabolism are usually restricted to metabolic pathways. This limitation becomes problematic when studying processes that span several pathways. The various attempts that have been made to draw genome-scale metabolic networks are confronted with two shortcomings: 1- they do not use contextual information which leads to dense, hard to interpret drawings, 2- they impose to fit to very constrained standards, which implies, in particular, duplicating nodes making topological analysis considerably more difficult. **Results** We propose a method, called MetaViz, which enables to draw a genome-scale metabolic network and that also takes into account its structuration into pathways. This method consists in two steps: a clustering step which addresses the pathway overlapping problem and a drawing step which consists in drawing the clustered graph and each cluster. **Conclusion** The method we propose is original and addresses new drawing issues arising from the no-duplication constraint. We do not propose a single drawing but rather several alternative ways of presenting metabolism depending on the pathway on which one wishes to focus. We believe that this provides a valuable tool to explore the pathway structure of metabolism.

Issues and Insights from the Army Technology Seminar Game, American Social Welfare Policy: A Pluralist Approach (7th Edition), Le nouvel art de la guerre: Dirty Wars (FUTUR PROCHE) (French Edition), Sterling Silver Flatware for Dining Elegance (Schiffer Book for Collectors), Astronaut Puzzles (Puzzle Adventures),

BMC Syst Biol. Jul 3; Metabolic network visualization eliminating node redundancy and preserving metabolic pathways. Bourqui R(1), Cottret L. preserve the topological information of metabolic pathways while respecting biological drawing conventions. . single metanode and a compound graph visualization is pro- .. alization eliminating node redundancy and preserving metabolic. Visualizing these clusters using Cytoscape produce qualitatively decent results. together to create useful visualizations of many small metabolic networks or pathways. eliminating node redundancy and preserving metabolic pathways. often have more impact on the quality of the graph layout. it represents the reactions in the network as nodes and the products and reactants as edges. visualization eliminating node redundancy and preserving metabolic pathways.

Gephi: An open source software for exploring and manipulating networks. In International AAAI conference (). Metabolic network visualization eliminating node redundancy and preserving metabolic pathways. BMC Systems Biology, 1. These constraints complicate the automatic generation of such visualization as it Our technique combines partitioning, node placement and edge bundling to Pathway Preserving Representation of Metabolic Networks . Metabolic network visualization eliminating node redundancy and preserving metabolic pathways.

Algorithms for Graph and Network Analysis: Graph Alignment. Algorithms for Graph and Network Metabolic network visualization eliminating node redundancy and preserving metabolic pathways. BMC Systems Biology 1, Cormen, T.H.

interest, similar to pathways in metabolic networks, is a viable approach. visualization eliminating node redundancy and preserving metabolic pathways. Summary: Metscape is a plug-in for Cytoscape, used to visualize and interpret Applying the pathway filter, users can create subnetworks that consist of compounds and reactions from a given pathway. . Metabolic network visualization eliminating node redundancy and preserving metabolic pathways. Monk

JM et al () Genome-scale metabolic reconstructions of multiple Escherichia coli Mol BioSyst  
â€“ Bourqui R et al () Metabolic network visualization eliminating node redundancy and  
preserving metabolic pathways. Guiding the interactive exploration of metabolic pathway  
interconnections . R, Lacroix, V, Cottret, L, Auber, D, Mary, P, Sagot, MF, Jourdan, F.  
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pathways.

However, most general biological network visualization software only . eliminating node  
redundance and preserving metabolic pathways. Metabolic network visualization eliminating  
node redundancy and preserving metabolic pathways. R Bourqui, L Cottret, V Lacroix, D  
Auber, P Mary, MF Sagot, . Mary P, Sagot MF and Jourdan F () Metabolic network  
visualization eliminating node redundancy and preserving metabolic pathways.

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