



Visualization of results from a

Animation of

time dependend data

Visualization of

isotopic enrichment including standard deviations and flux rates

metabolic flux

analysis. The

flux strength is indicated the width of the reaction

Omix Visualization Examples Poster 2012

Visualization of

An outstanding feature of Omix is OVL, an object-oriented scripting engine that allows programming of network diagrams. For example, OVL enables the user to define interaction with the network diagram and dynamic

modification of the attributes of all graphical elements in a drawing according available data from experiment and

simulation. This way, time-dependent numerical data are

easily animated in the context of network diagrams

transcriptome data by

using additional

Programmability

Visualization

What is Omix?

Omix is a highly customizable editor for biochemical network diagrams, equipped with extensive data visualization features. Simple and fast access to Omix is warranted, even for newcomers. Omix generates high quality vector graphics that are ideal for scientific publication.

Features

Omix' unique features include (but are not limited to):

- Drawing stylish network diagrams with extensive annotation potential.
- Interactive visualization of data from experiment as well as simulation in metabolic networks.
- Different levels of detail to decrease complexity and flexibly highlight different aspects of the network structure.
- Support of the drawing process by semiautomatic drawing features.
- Export of the drawings into bitmap and vector graphic formats like PNG, JPG and SVG as well as animations (SWF Flash) and movie files
- Extensible by plug-ins.
 Import/export of SBML documents.
- Import of network models from KEGG database
- Import of data from Excel spreadsheets.
- Visualization of chemical structures.
- 3D visualization of data and network topologies. Network analysis toolbox: elementary flux
- modes, network dependencies, flux balances,

Availability

Mitglied der Helmholtz-Gemeinschaft

Omix is available for Windows, Linux and Mac OS X. Additionally, user manuals, tutorial courses and many Different views on the same network Omix offers the ability to hide network components example applications are available in order to perceive different levels of detail. www.13cflux.net/omix Interactive atom transitions and isotopomer networks in 3D including interactive path on demand tracing and network

3D visualization of

network sensitivities and



Visualization of enzyme kinetics

Visual editing of atom transitions

www.fz-juelich.de/ibg/ibg-1