SBGN support in CellDesigner

Akira Funahashi Keio University 30th April 2013



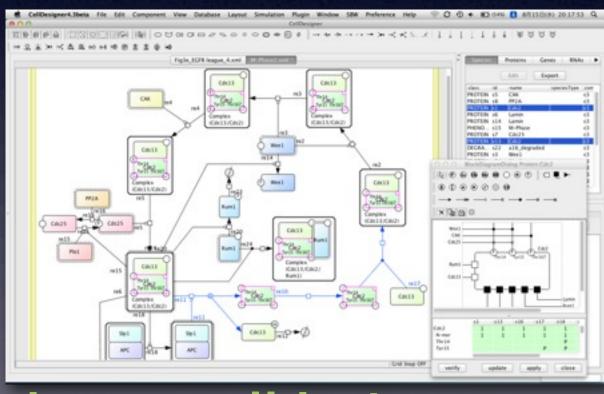


CellDesigner 4.3

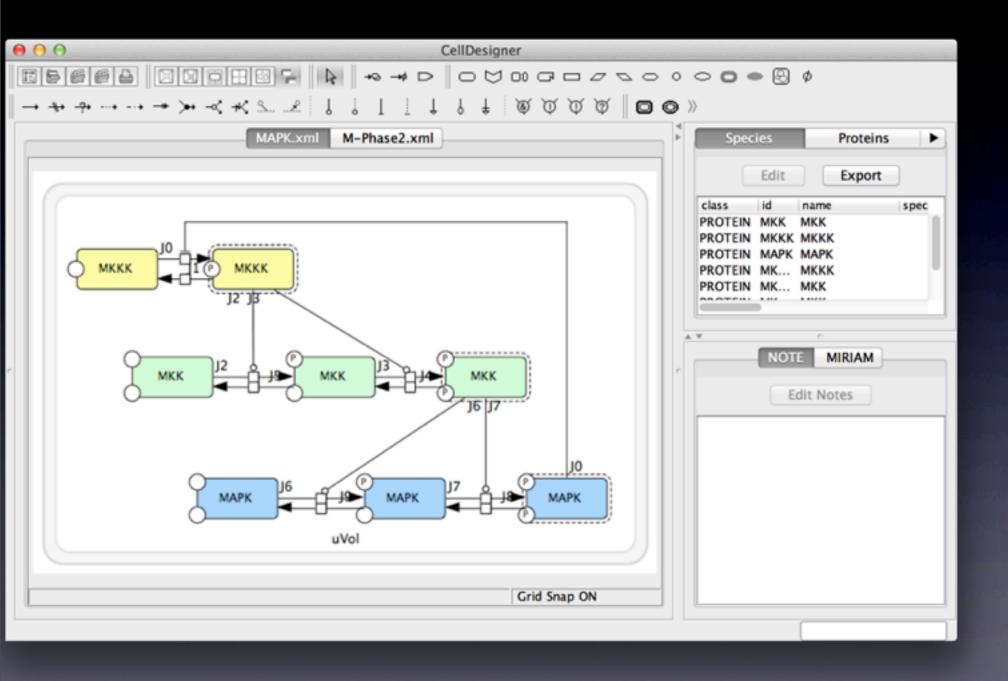
- SBML Level 2 version 4 support
- Graphical notation (SBGN Viewer, SBGN-ML export)
- Built-in simulator (SOSlib, COPASI, SBMLsimulator)
- Database connection (BioModels.net, SABIO-RK,

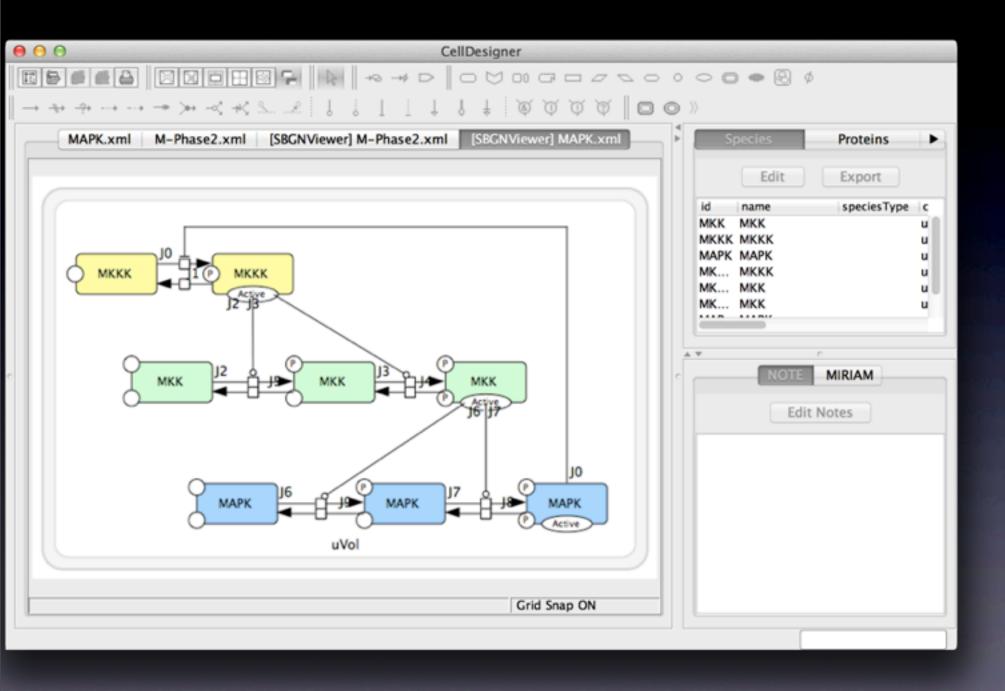
PANTHER, JWS Online)

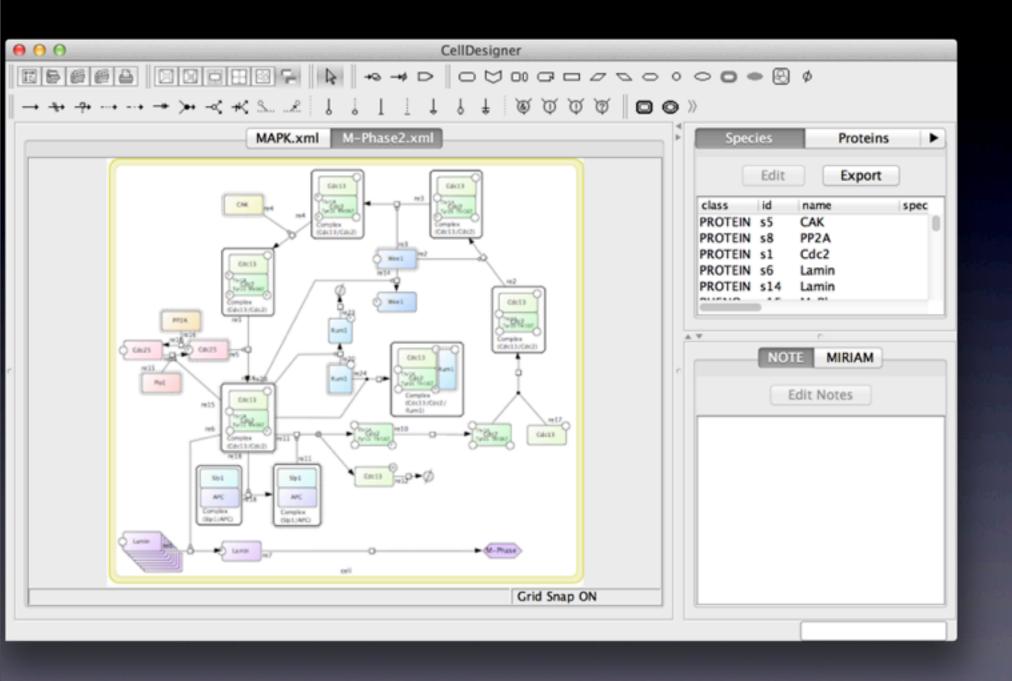
- MIRIAM, SBO, SED-ML
- Plugin architecture
- Export to PDF, PNG.
- Freely available
 - Windows (XP or later)
 - Mac OS X
 - Linux

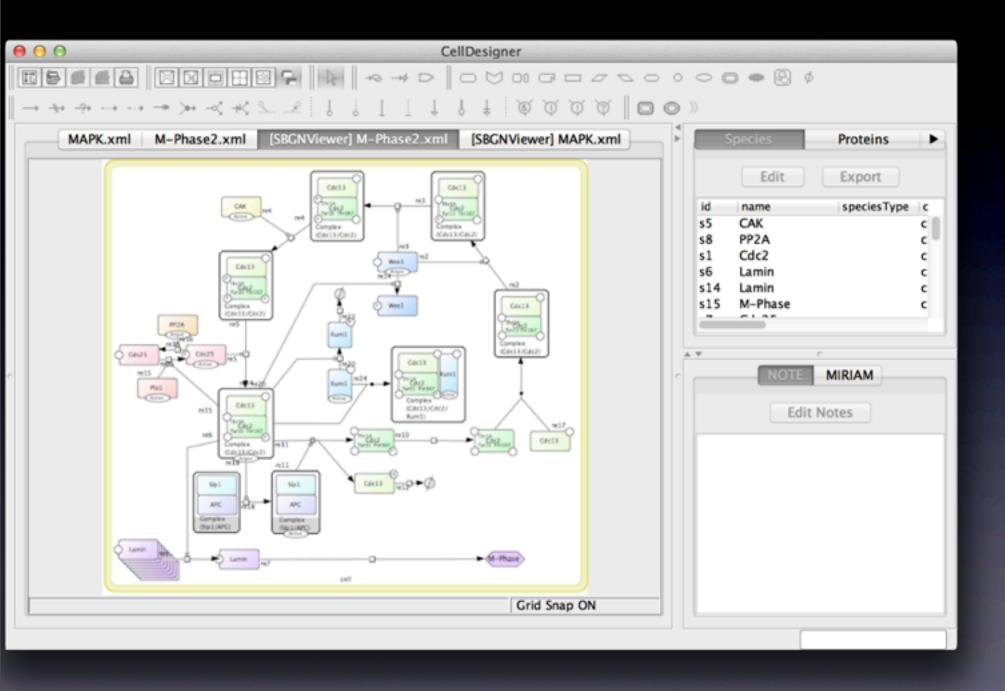


http://celldesigner.org

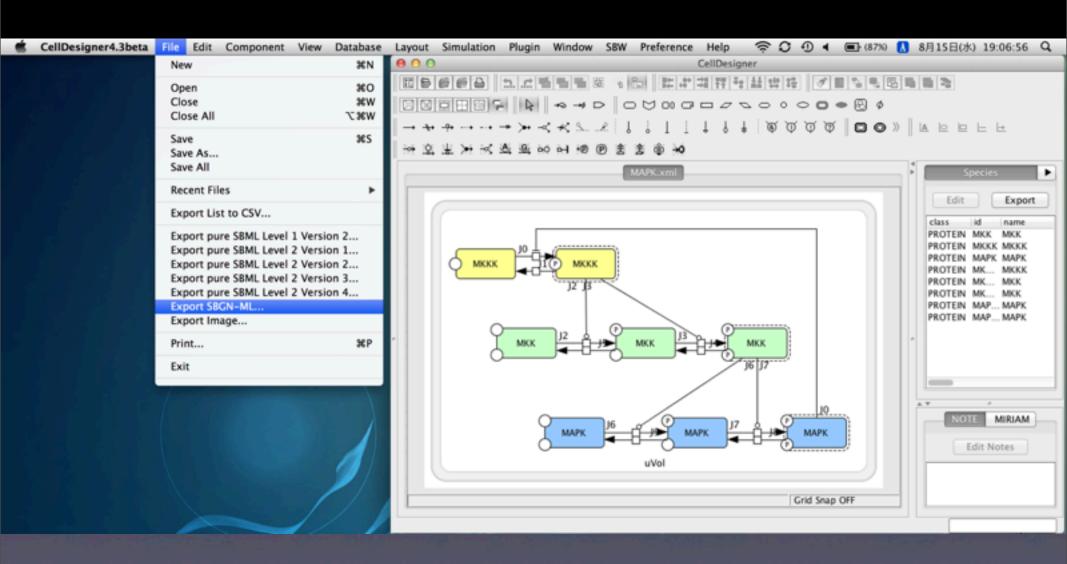




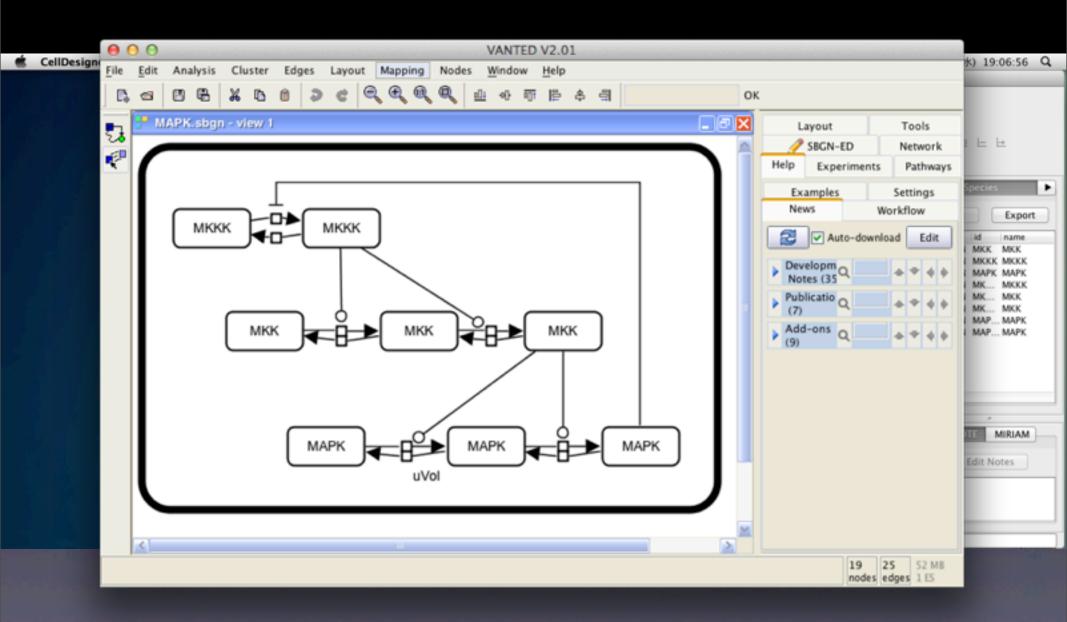




CellDesigner → **SBGN-ML**

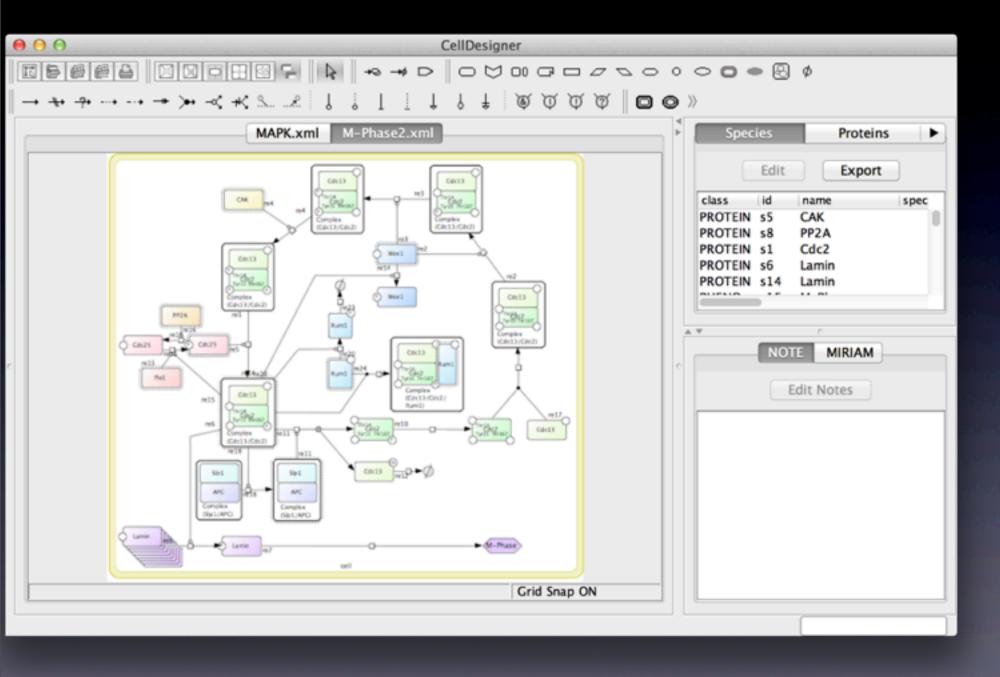


CellDesigner → **SBGN-ML**

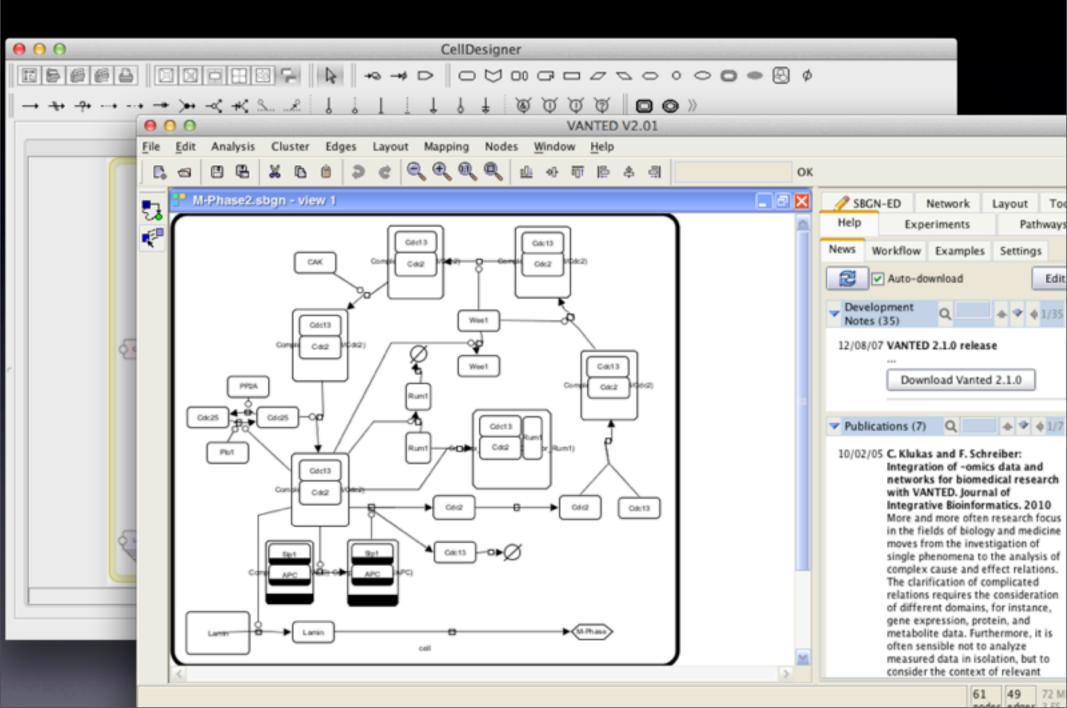


http://www.sbgn.org/SBGN_Software

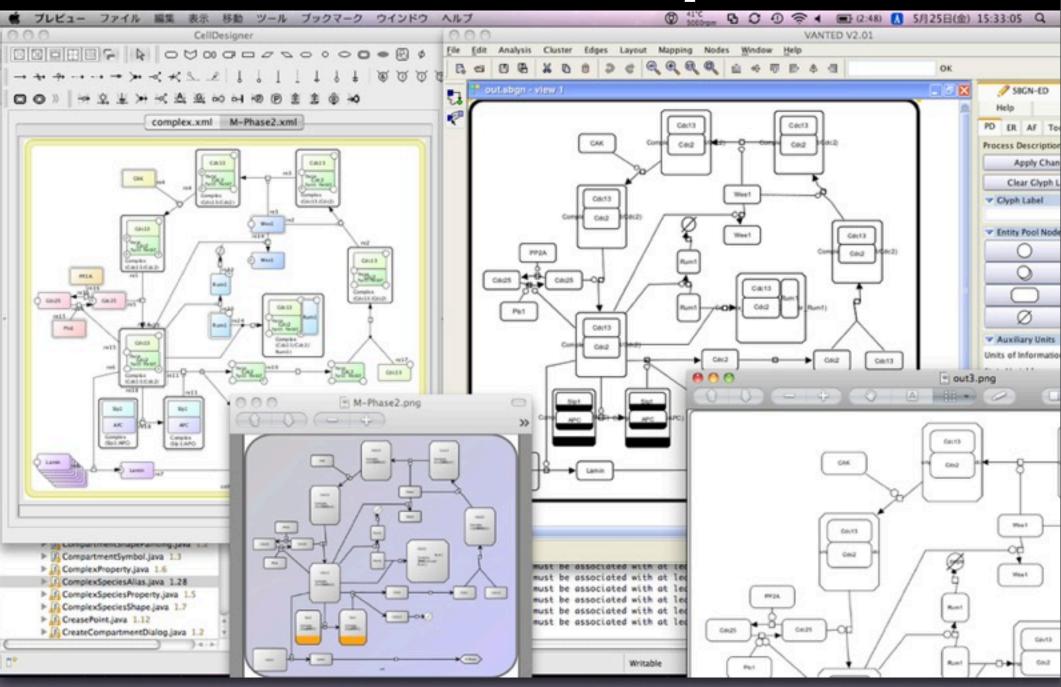
SBGN-ML export



SBGN-ML export

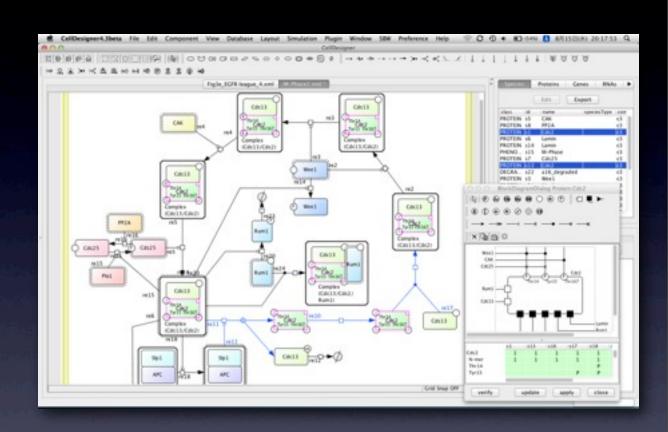


SBGN-ML export

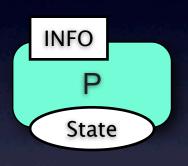


Current Status

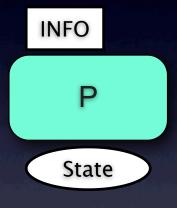
- SBGN PD Level 1
 - Species
 - Reactions
 - Compartments
 - Complex
 - Clone marker
- On going
 - States
 - Residue
- Question
 - Validation (High/Low level)



Validation



Valid



Invalid?

Layout? or Rendering?