**Generating Realistic In Silico Gene Networks for Performance Assessment of Reverse Engineering Methods**

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JOURNAL OF COMPUTATIONAL BIOLOGY Volume 16, Number 2, 2009

This article contains the method to generate the in silico/simulated/synthetic realistic gene networks and the associated gene time series expressions from which the network can be inferred.

**GeneNetWeaver**

**(http://gnw.sourceforge.net/)**

All files have been generated automatically with our Java webstart tool GeneNetWeaver (GNW) version 2.0. You can launch GNW with a simple click right here or from our website (gnw.sourceforge.net), no installation is required. Using GNW you can, for example:

• open and visualize the gene network structures,

• open the dynamical models of the gold standards and simulate additional datasets,

• generate additional benchmarks similar to the DREAM4 challenges.

[**GeneNetWeaver: *In silico* benchmark generation and performance profiling of network inference methods**](http://gnw.sourceforge.net/resources/Schaffter2011.pdf).  
Schaffter T, Marbach D, and Floreano D.  
Bioinformatics, 27(16):2263-70, 2011.

This is the tool that exploit the algorithm of the article above to generate five gene time series expression datasets that we adopt in our study.

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Tell for their model how many parameter it has and what is doing each of them on the process of network and data time-series generation.