Electronic Supplementary Material (ESI) for Molecular BioSystems.

Information for supplemental material

1. Conversion to SQUAD ODEs:

Open the file convert_to_squadODEs.m in the Matlab editor and enter the network topology in the described way. The script produces a Potterswheel model definition file named squadODEs.m, which can directly be loaded into Potterswheel for parameter estimation and further analyses.

2. Conversion to HillCube ODEs:

HillCube conversion makes use of files from the modeling tool Odefy (Krumsiek et al. 2010), make sure, the files ExpressionsToOdefy.m, CreateCubeCallsPW.m and validvarname.m are on the Matlab path. Odefy does not need to be installed, all necessary files are included in this supplement. Open the file convert_to_HillcubeODEs.m in the Matlab editor and enter the Boolean rules of your model in the described way. The script produces a Potterswheel model definition file named hillcubeODEs.m, which can directly be loaded into Potterswheel for parameter estimation and further analyses.

3. Models

The files mass-action.pdf, squad.pdf and hillcube.pdf contain the differential equations and parameters of the examined models.

Krumsiek J, Pölsterl S, Wittmann DM, Theis FJ. Odefy--from discrete to continuous models. BMC Bioinformatics. 2010 May 7;11:233. doi: 10.1186/1471-2105-11-233.