

# Dynamic Systems Biology Modeling Simulation

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Time-discrete dynamic systems models have long been used in biology. Biologic computer simulations require careful consideration as to the level of detail necessary for a representative model, because unnecessary detail will lead to models so complex that detailed numerical study would become highly cumbersome or impossible.

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Dynamic simulation (or dynamic system simulation) is the use of a computer program to model the time-varying behavior of a dynamical system.

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The systems are typically described by ordinary differential equations or partial differential equations.

### **Dynamic simulation - Wikipedia**

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Systems and Synthetic Biology 9:3, 77-84. (2015) Numerical simulation of ultradian oscillations in p53-Mdm2-network under stress conditions. Mathematical Models and Computer Simulations 7 :3, 281-293.

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Dynamic simulation of turbomachinery by Hardware in the Loop (HIL) real-time systems has become an essential practice, due to the high cost of real equipment testing and the need to verify the control and diagnostic systems' reaction to emergency situations. The authors developed a full model of a power generation Gas Turbine Plant, including liquid and gaseous auxiliaries, and the ...

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Next, to simulate TNF-induced dynamics of NF- $\kappa$ B and MAPK activations using the topology, we developed a dynamic model based on perturbation-response approach (Materials and Methods), using COPASI simulation platform []. Unlike common biochemical reaction models [24, 25], the perturbation-response approach does not require detailed knowledge of all signaling species and their reaction kinetics.

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