



# Biosimulation in Biomedical Research, Health Care and Drug Development

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# Biosimulation in Biomedical Research, Health Care and Drug Development

## **Biosimulation in Biomedical Research, Health Care and Drug Development**

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This book explains the concepts used in the modeling of biological phenomena and goes on to present a series of well-documented models of the regulation of various genetic, cellular and physiological processes. The way how the use of computer models allows optimization of cancer treatment for individual patients is discussed and models of interacting nerve cells that can be used to design new treatments for patients with Parkinson's disease are explained. Furthermore this volume provides an overview on the use of models in industry, and presents the view of regulatory agencies on the topic.

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