

1. Record Nr.	UNINA9910484053203321
Titolo	Computational methods in systems biology : international conference CMSB 2007, Edinburgh, Scotland, September 20-21, 2007 : proceedings // Muffy Calder, Stephen Gilmore (editors)
Pubbl/distr/stampa	Berlin ; ; Heidelberg ; ; New York : , : Springer, , [2007] ©2007
ISBN	3-540-75140-8
Edizione	[1st ed. 2007.]
Descrizione fisica	1 online resource (X, 249 p.)
Collana	Lecture Notes in Bioinformatics ; ; 4695
Disciplina	570.285
Soggetti	Computational biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chemical Master Equation and Langevin Regimes for a Gene Transcription Model -- Simultaneous Stochastic Simulation of Multiple Perturbations in Biological Network Models -- Modelling Yeast Pre-rRNA Processing -- On the Analysis of Numerical Data Time Series in Temporal Logic -- Context Sensitivity in Logical Modeling with Time Delays -- Stochastic Simulation of Biological Systems with Dynamical Compartment Structure -- Computational Simulation of Optical Tracking of Cell Populations Using Quantum Dot Fluorophores -- A Formal and Integrated Framework to Simulate Evolution of Biological Pathways -- Reconstruction of Mammalian Cell Cycle Regulatory Network from Microarray Data Using Stochastic Logical Networks -- An Automated Translation from a Narrative Language for Biological Modelling into Process Algebra -- Expressive Models for Synaptic Plasticity -- Modelization and Simulation of Nano Devices in nano ? Calculus -- Efficient, Correct Simulation of Biological Processes in the Stochastic Pi-calculus -- A Unifying Framework for Modelling and Analysing Biochemical Pathways Using Petri Nets -- Reconstructing Metabolic Pathways by Bidirectional Chemical Search -- Decision Diagrams for the Representation and Analysis of Logical Models of Genetic Networks.

