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| Descrizione fisica      | 1 online resource (360 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Collana                 | Series in systems biology<br>Systems biology ; ; 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Altri autori (Persone)  | RigoutsosIsidore<br>StephanopoulosG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Disciplina              | 570                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Soggetti                | Computational biology<br>Genomics<br>Bioinformatics<br>Electronic books.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Nota di contenuto       | Contents; Contributors; Systems Biology: A Perspective; 1 Mass Spectrometry in Systems Biology; 2 Mathematical Modeling and Optimization Methods for De Novo Protein Design; 3 Molecular Simulation and Systems Biology; 4 Global Gene Expression Assays: Quantitative Noise Analysis; 5 Mapping the Genotype-Phenotype Relationship in Cellular Signaling Networks: Building Bridges Over the Unknown; 6 Integrating Innate Immunity into a Global "Systems" Context: The Complement Paradigm Shift<br>7 Systems Biotechnology: Combined in Silico and Omics Analyses for the Improvement of Microorganisms for Industrial Applications<br>8 Genome-Scale Models of Metabolic and Regulatory Networks; 9 Biophysical Models of the Cardiovascular System; 10 Embryonic Stem Cells as a Module for Systems Biology; Index |
| Sommario/riassunto      | 1. Mass Spectrometry in Systems Biology 3, Cristian I. Ruse & John R. Yates III. 2. Mathematical Modeling and Optimization Methods for De Novo Protein Design 42, C. A. Floudas & H. K. Fung. 3. Molecular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Simulation and Systems Biology 67, William C. Swope, Jed W. Pitera, & Robert S. Germain. 4. Global Gene Expression Assays: Quantitative Noise Analysis 103, G. A. Held, Gustavo Stolovitzky, & Yuhai Tu. 5. Mapping the Genotype-Phenotype Relationship in Cellular Signaling Networks: Building Bridges Over the Unknown 137, Jason A. Papin, Erwin P. Gianchandani, & Shankar Subramaniam. 6. Integrating I

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