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**US\$
69.00
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eISBN: 978-1-60805-025-3

Computational Biology of Embryonic Stem Cells

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About the ebook

This e-book brings together reviews and essays from different aspects of the embryonic stem cell research. Selected topics include focused analyses of the genome, transcriptome, epigenome, proteome, and regulatory network of embryonic stem cells, the theories and tools of computational biology used in these studies, and newly available databases and on-line resources for bioinformatics research.

Contents

- ▶ A Genetic Network Identification Algorithm Combining Experiment and Computation
- ▶ Causality Reasoning and Discovery for Systems Biology Investigations
- ▶ Exploring Stem Cell Gene Expression Signatures using AutoSOME Cluster Analysis
- ▶ Computational Analysis of DNA-Methylation and Application to Human Embryonic Stem Cells
- ▶ Transcriptional Co-Expression Analysis of Embryonic Stem Cells
- ▶ Genomics of Alternative Splicing in Stem Cells
- ▶ Computational Biology of microRNA-Pluripotency Gene Networks in Embryonic Stem Cells

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