



Computational Systems Biology: From Molecular Mechanisms to Disease

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This comprehensively revised second edition of *Computational Systems Biology* discusses the experimental and theoretical foundations of the function of biological systems at the molecular, cellular or organismal level over temporal and spatial scales, as systems biology advances to provide clinical solutions to complex medical problems. In particular the work focuses on the engineering of biological systems and network modeling.

- Logical information flow aids understanding of basic building blocks of life through disease phenotypes
- Evolved principles gives insight into underlying organizational principles of biological organizations, and systems processes, governing functions such as adaptation or response patterns
- Coverage of technical tools and systems helps researchers to understand and resolve specific systems biology problems using advanced computation
- Multi-scale modeling on disparate scales aids researchers understanding of dependencies and constraints of spatio-temporal relationships fundamental to biological organization and function.

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