Kinetic Modelling in Systems Biology—Clingt Dennis 2008-10-24 With more and more interest in how components of biological systems interact, it is important to understand the various aspects of systems biology. Kinetic Modelling in Systems Biology focuses on some of the major challenges in the field of systems biology. It explores both the methods and applications of kinetic modelling in this emerging field.

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As the pre-equilibrium or the steady-state approach are still valid and necessary as they concern the information content of measured kinetic traces. The book shows the role of these approximations in modern kinetics and will also describe computational methods that will provide a stronger foundation for the development of more advanced courses in stochastic biological modelling.

Computational Systems Biology—Cancer-Emmanuel Barillot 2012-05-25 The future of cancer research and the development of new therapeutic strategies rely on our ability to combine biological and clinical questions into mathematical models integrating our knowledge of tumour progression mechanisms with the tsunami of information brought by high-throughput technologies such as microarrays and next-generation sequencing.

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