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Complex Systems Science in Biomedicine *Springer Science & Business Media*

Complex Systems Science in Biomedicine Thomas S. Deisboeck and J. Yasha Kresh **Complex Systems Science in Biomedicine** covers the emerging field of systems science involving the application of physics, mathematics, engineering and computational methods and techniques to the study of biomedicine including nonlinear dynamics at the molecular, cellular, multi-cellular tissue, and organismic level. With all chapters helmed by leading scientists in the field, **Complex Systems Science in Biomedicine's** goal is to offer its audience a timely compendium of the ongoing research directed to the understanding of biological processes as whole systems instead of as isolated component parts. In Parts I & II, **Complex Systems Science in Biomedicine** provides a general systems thinking perspective and presents some of the fundamental theoretical underpinnings of this rapidly emerging field. Part III then follows with a multi-scaled approach, spanning from the molecular to macroscopic level, exemplified by studying such diverse areas as molecular networks and developmental processes, the immune and nervous systems, the heart, cancer and multi-organ failure. The volume concludes with Part IV that addresses methods and techniques driven in design and development by this new understanding of biomedical science. **Key Topics Include:**

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& Cell Division, Respiration in Plants, Body Fluids & Circulation, Morphology of Flowering Plants, Locomotion & Movement, etc covering the syllabi of Biology for Class XI. This book has been worked out with an aim of overall development of the students in such a way that it will help students define the way how to write the answers of the textbook based questions. The book covers selected NCERT Exemplar Problems which will help the students understand the type of questions and answers to be expected in the Class XI Biology Examination. Also each chapter in the book begins with a summary of the chapter which will help in effective understanding of the theme of the chapter and to make sure that the students will be able to answer all popular questions concerned to a particular chapter whether it is Long Answer Type or Short Answer Type Question. For the overall benefit of students the book has been designed in such a way that it not only gives solutions to all the exercises but also gives detailed explanations which will help the students in learning the concepts and will enhance their thinking and learning abilities. As the book has been designed strictly according to the NCERT Textbook of Biology for Class XI and contains simplified text material in the form of class room notes and answers to all the questions in lucid language, it for sure will help the Class XI students in an effective way for Biology. **Structured Biological Modelling A New Approach to Biophysical Cell Biology** *CRC Press* **Structured Biological Modelling** presents a straightforward introduction for computer-aided analysis, mathematical modelling, and simulation of cell biological systems. This unique guide brings together the physiological, structural, molecular biological, and theoretical aspects of the signal transduction network that regulates growth and proliferation in normal and tumor cells. It provides comprehensive survey of functional and theoretical features of intracellular signal processing and introduces the concept of cellular self-organization. Exemplified by oscillatory calcium waves, strategies for the design of computer experiments are presented that can assist or even substitute for time-consuming biological experiments. The presented minimal model for proliferation-associated signal transduction clearly shows the alterations of the cellular signal network involved in neoplastic growth. This book will be useful to cell and molecular biologists, oncologists, physiologists, theoretical biologists, computer scientists, and all other researchers and students studying functional aspects of cellular signaling. **Journal Logical Modeling of Cellular Processes: From Software Development to Network Dynamics** *Frontiers Media SA* Mathematical models have become invaluable tools for understanding the intricate dynamic behavior of complex biochemical and biological systems. Among computational strategies, logical modeling has been recently gaining interest as an alternative approach to address network dynamics. Due to its advantages, including scalability and independence of kinetic parameters, the logical modeling framework is becoming increasingly popular to study the dynamics of highly interconnected systems, such as cell cycle progression, T cell differentiation and gene regulation. Novel tools and standards have been

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