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biology the dynamics of life laboratory manual

with the emergence of systems biology there is a greater realization that the whole

behavior of a living system may not be simply described as the sum of its elements to represent a living system using mathematical principles practical quantities with units are required quantities are not only the bridge between mathematical description and biological observations they often stand as essential elements similar to genome information in genetics this important realization has greatly rejuvenated research in the area of quantitative biology because of the increased need for precise quantification a new era of technological development has opened for example spatio temporal high resolution imaging enables us to track single molecule behavior in vivo clever artificial control of experimental conditions and molecular structures has expanded the variety of quantities that can be directly measured in addition improved computational power and novel algorithms for analyzing theoretical models have made it possible to investigate complex biological phenomena this research topic is organized on two aspects of technological advances which are the backbone of quantitative biology i visualization of biomolecules their dynamics and function and ii generic technologies of model optimization and numeric integration we have also included articles highlighting the need for new quantitative approaches to solve some of the long standing cell biology questions in the first section on visualizing biomolecules four cutting edge techniques are presented ichimura et al provide a review of quantum dots including their basic characteristics and their applications for example single particle tracking horisawa discusses a quick and stable labeling technique using click chemistry with distinct advantages compared to fluorescent protein tags the relatively small physical size stability of covalent bond and simple metabolic labeling procedures in living cells provides this type of technology a potential to allow long term imaging with least interference to protein function obien et al review strategies to control microelectrodes for detecting neuronal activity and discuss techniques for higher resolution and quality of recordings using monolithic integration with on chip circuitry finally the original research article by amariei et al describes the oscillatory behavior of metabolites in bacteria they describe a new method to visualize the periodic dynamics of metabolites in large scale cultures populations these four articles contribute to the development of quantitative methods visualizing diverse targets proteins electrical signals and metabolites in the second section of the topic we have included articles on the development of computational tools to fully harness the potential of quantitative measurements through either calculation based on specific model or validation of the model itself kimura et al introduce optimization procedures to search for parameters in a quantitative model that can reproduce experimental data they present four examples transcriptional regulation bacterial chemotaxis morphogenesis of tissues and organs and cell cycle regulation the original research article by sumiyoshi et al presents a general methodology to accelerate stochastic simulation efforts they introduce a method to achieve 130 times faster computation of stochastic models by applying gpgpu the strength of such accelerated numerical calculation are sometimes underestimated in biology faster simulation enables multiple runs and in turn improved accuracy of numerical calculation which may change the final conclusion of modeling study this also highlights the need to carefully assess simulation results and estimations using computational tools

the growing impact of nonlinear science on biology and medicine is fundamentally changing our view of living organisms and disease processes this book introduces the application to biomedicine of a broad range of interdisciplinary concepts from nonlinear dynamics such as self organization complexity coherence stochastic resonance fractals and chaos it comprises 18 chapters written by leading figures in the field and covers experimental and theoretical research as well as the emerging technological possibilities such as nonlinear control techniques for treating pathological biodynamics including heart arrhythmias and epilepsy this book will attract the interest of professionals and students from a wide range of disciplines including physicists chemists biologists sensory physiologists and medical researchers such as cardiologists neurologists and biomedical engineers

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from the spontaneous rapid firing of cortical neurons to the spatial diffusion of disease epidemics biological systems exhibit rich dynamic behaviour over a vast range of time and space scales unifying many of these diverse phenomena dynamics of biological systems provides the computational and mathematical platform from which to understand the

collection of articles on the impact of nonlinear science on biology

this book is based on a series of lectures on mathematical biology the essential dynamics of complex and crucially important social systems and the unifying power of mathematics and nonlinear dynamical systems theory

the probeware lab manual for biology contains 10 probeware laboratory activities that are designed for a high school biology curriculum each activity helps students explore scientific concepts using a probeware data collection system integrating the technology in the classroom is made simple with step by step instructions for setting up and using the probeware

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