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Computational biology of the heart: from structure to function

Computational Biology of the Heart
by Panfilov, Alexander V.
Modelling the genesis and
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one of the most important recent applications of mathematical modelling in biology.

Biostatisticians identify genes linked to heart disease Institute for. 1 Mar 1997.

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Research in computational biology has given rise to a vast number of methods developed to solve scientific problems. For areas in which many approaches exist, researchers have a hard time deciding which tool to select to address a scientific challenge, as essentially all publications introducing a new method will claim better performance than all others.

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The Laboratory of Computational Biology is an interdisciplinary group of scientists who study biological processes via computer simulation. It is part of the Biochemistry and Biophysics Center Division of Intramural Research National Heart, Lung, and Blood Institute in the National Institutes of Health.

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Among computational models of the various physiological systems, the heart is the most highly advanced example of a virtual organ, capable of integrating data at multiple scales, from genes to

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Computational Cardiology: The Heart of the Matter

2. COMPUTING THE
ELECTRICAL ACTIVITY IN THE
HEART To simulate the heart is to describe and predict its electro-mechanical activity over time. The rhythmic contraction of the heart is coordinated by a wave of electrical excitation, called Action Potential (AP), which propagates through the muscle tissue from autorhythmic cells in the heart ' s

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Moreover, computational models and simulations are at the very heart of modern biology. The demand for data analysis and

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The modeling to answer open questions in the life sciences continues to drive progress in computational science, leading to true cross-fertilization.

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Computational Biology includes a wide area of knowledge from data mining, statistics, nucleic acid and protein sequence analysis, machine learning and so on. If you are a full time biologist and short on time, one practical way is to start with a biological question which interests you the most and then starts thinking about how to solve it ...

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Synopsis: Thanks to the advances in computational and experimental methods of the last 20 years, today it is possible to study the whole heart function with anatomically accurate models. Unfortunately, the mathematical models describing the heart have mostly remained the same and their limitations have not been overcome.

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The GSK Computational Biology Department in Functional Genomics is seeking a self-motivated individual to join our dynamic and multidisciplinary team to support GSK's goal. Your primary focus as a Computational Biologist would be to identify,

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develop, implement and use
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impact drug discovery and
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