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benchmarks in  
their rightful*

*place: The  
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the Heart**

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Biology of the  
Heart Saul

Kato: The  
Future of

Computational  
Biology–  
Schrödinger at  
75: The Future  
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Manolis Kellis:  
Human  
Genome and  
Evolutionary  
Dynamics |  
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Podcast #113  
*1. Introduction  
to  
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and Systems  
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Disease* | Lex  
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biology on  
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Mellon  
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Systems  
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Short  
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address a scientific challenge, as essentially all publications introducing a new method will claim better performance than all others. Putting benchmarks in their rightful place: The heart of ...Computational Biology of the Heart: Amazon.co.uk: Panfilov, Alexander V., Holden, Arun V.: BooksComputational Biology of the Heart: Amazon.co.uk: Panfilov ...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.The Laboratory of Computational BiologyAmong 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 the whole organ [ 1Computation al Cardiology: The Heart of the Matter2. 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
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by a wave of electrical excitation, called Action Potential (AP), which propagates through the muscle tissue from autorhythmic cells in the heart's Beatbox—A Computer Simulation Environment for ...Moreover, computational models and simulations are at the very heart of modern biology. The demand for data analysis and modeling to answer open questions in

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very heart of  
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demand for

data analysis and 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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