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Computational Cell Biology: An Introduction To Computer Modeling In Molecular Cell Biology (website)

https://web.archive.org/web/20081227034732/http://www.computationalcellbiology.net/

Edited by: Christopher P. Fall, **Eric S. Marland,** John M. Wagner and John J. Tyson

Abstract

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This textbook was conceived of and begun by Professor Joel Keizer based on his many years of teaching and research together with his colleagues. The project was expanded and completed by his students and friends after his untimely death in 1999. Contributors include Timothy Elston, Bard Ermentrout, Chris Fall, James Keener, Yue-Xian Li, Eric Marland, Alexander Mogilner, Béla Novák, George Oster, John Pearson, John Rinzel, Arthur Sherman, Greg Smith, John Tyson, John Wagner and Hongyun Wang. This web site is a support site for the new text from Springer-Verlag. The text begins by slowly building up to basic compartmental models of cells. It covers ion channels, transporters, chemical interactions, and shows how to integrate them into a full model of the cell. With this done, the book then progress to more specialized topics such as spatial modeling, cell to cell communication, and molecular motors.

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06/18/04 - New web site released.