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

**<https://web.archive.org/web/20041202234524/http://www.compcell.appstate.edu/>**

Edited by: Chris Fall, **Eric Marland**, John Tyson, and John Wagner

### **Abstract**

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This web site is a support site for the new text from Springer-Verlag. The text begins by slowly building up to basic compartmental model 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.

Fall, C., **Marland, E.**, Tyson, J., & Wagner, J. (2002). Computational Cell Biology: An Introduction To Computer Modeling In Molecular Cell Biology (website). Springer-Verlag. Publisher version of record available at: <https://web.archive.org/web/20041202234524/http://www.compcell.appstate.edu/>. NC Docks permission to re-print granted by author(s).

# Computational Cell Biology

An Introduction to Computer Modeling in Molecular Cell Biology

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**Updates:** 10/29/02 - [Virtual Cell](#) implementation is now supported, follow the links  
10/29/02 - Errors are showing up, I haven't verified them yet, but they are listed.

<a href="#">Online Preface</a> - Who is it for	<a href="#">Contributing Authors</a> - Who did this
<a href="#">Course Ideas</a> - How to use it	<a href="#">Dedication</a> - The man, the plan, ...
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Supplementary Exercises - Submit your own	<a href="#">Computer Code</a> - Downloading and submitting in a variety of formats - Xpp, Virtual Cell, and MATLAB.
Exercise Hints - Write down what you would have written if you did know	Solutions Manual - Contribute your solutions in a variety of formats - Xpp, Virtual cell, MATLAB, ...
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