



Computer Simulation and Data Analysis in Molecular Biology and Biophysics: An Introduction Using R (Biological and Medical Physics, Biomedical Engineering)

Victor Bloomfield

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This book provides an introduction to two important aspects of modern biochemistry, molecular biology, and biophysics: computer simulation and data analysis. My aim is to introduce the tools that will enable students to learn and use some fundamental methods to construct quantitative models of biological mechanisms, both deterministic and with some elements of randomness; to learn how concepts of probability can help to understand important features of DNA sequences; and to apply a useful set of statistical methods to analysis of experimental data. The availability of very capable but inexpensive personal computers and software makes it possible to do such work at a much higher level, but in a much easier way, than ever before.

The Executive Summary of the influential 2003 report from the National Academy of Sciences, "BIO 2010: Transforming Undergraduate Education for Future Research Biologists" [12], begins "The interplay of the recombinant DNA, instrumentation, and digital revolutions has profoundly transformed biological research. The confluence of these three innovations has led to important discoveries, such as the mapping of the human genome. How biologists design, perform, and analyze experiments is changing swiftly. Biological concepts and models are becoming more quantitative, and biological research has become critically dependent on concepts and methods drawn from other scientific disciplines. The connections between the biological sciences and the physical sciences, mathematics, and computer science are rapidly becoming deeper and more extensive."

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