



Biophysical Techniques

By *Iain D. Campbell*

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Many current questions in biology are probed by using a range of biophysical methods, often in tandem. These increasingly powerful and sophisticated tools allow us to study the structure and dynamics of the complicated mixture of interacting molecules that make up the living cell.

Biophysical Techniques explains in a readily accessible way the basics of the various methods available--including those used to study molecular structure, cell structure, and dynamic interactions--so that students can understand the principles behind the different methods used, and begin to appreciate which tools can be used to probe different biological questions, and the pros and cons of each.

Exploring the latest enhancements to classical techniques, and introducing computational techniques that have emerged relatively recently, the book provides a broad survey of the range of techniques now at the disposal of an investigator.

The biophysical techniques introduced can be explained in physical and mathematical terms; instead of assuming a detailed knowledge of physics or math, however, the book uses a series of tutorials and boxes to provide essential background guidance on these topics, giving students extra support in fully understanding the subject. Learning and understanding is supported still further with thought-provoking end-of-chapter problems, and a range of online journal clubs, to illustrate to students how a range of biophysical techniques have been used in contemporary research.

In an age where we are probing the working of biological systems in more detail than ever before, *Biophysical Techniques* is the ideal guide for any student who needs to understand the power of biophysical techniques in biological research.

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Editorial Review

Review

"Campbell, one of the leading experts in biomolecular spectroscopy, covers the general principles of biophysical analytical methods. Many biology majors who may be intimidated by the excellent mathematical derivations by Cantor and Schimmel are likely to find Campbell's conceptual book more easily accessible." - *The Quarterly Review of Biology*

About the Author

Iain D. Campbell is Professor of Structural Biology in the Department of Biochemistry at the University of Oxford, and Emeritus Research Fellow of St John's College, Oxford. A member of the Department of Biochemistry since 1976, Iain has a long-held interest in the use of physical tools to find out how the machinery of the cell operates.

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