



Bioanalytical Chemistry

By Susan R. Mikkelsen, Eduardo Cortón

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Bioanalytical Chemistry provides a thorough introduction for students and practitioners with a broad range of backgrounds from chemistry to medicine. In so doing, it brings together many of the techniques commonly used by biochemists and molecular biologists. The text includes entire chapters on design and implementation of enzyme assays; mass spectrometry; and validation of new methods. Each chapter progresses from basic concepts to applications involving real samples, and ends with a set of problems, while an appendix contains selected answers. The authors have limited mathematical derivations to those that are essential for an understanding of each method and they include a list of suggested reading for further information. This textbook provides an ideal companion for students, researchers, and industrial scientists working in chemistry, biology, biochemistry, pharmacy, and medicine.

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Bioanalytical Chemistry By Susan R. Mikkelsen, Eduardo Cort?n **Bibliography**

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Editorial Review

Review

"...a valuable addition to the analytical literature..." (*Analytical Bioanalytical Chemistry*, 15th October 2005)

"...the content of the book is presented in a very modern way, is clearly written and can be recommended..." (*Chemical Analysis*, September 2005)

"...an excellent, concise...resource on a wide variety of analytical tools." (*Journal of Natural Products*, June 2005)

"...I recommend the textbook 'Bioanalytical Chemistry' as a good start for the interested reader or for use in undergraduate courses, particularly by teaching staff." (*Analytical Chemistry*, October 1, 2004)

"The authors have provided a comprehensive look at various tools and techniques that are encompassed by the term 'bioanalytical chemistry.'" (*Biochemistry and Molecular Education*, September/ October 2004)

"...a valuable resource for practitioners in the fields of biochemistry and molecular biology...it would also make an excellent graduate-level course resource..." (*CHOICE*, October 2004)

"...the authors have succeeded in providing a concise but complete practical presentation of all major analytical techniques used in biochemistry. This valuable contribution fits its target niche and audience very well." (*Journal of Chemical Education*, September 2004)

From the Back Cover

A timely, accessible survey of the multidisciplinary field of bioanalytical chemistry

Bioanalytical chemistry is playing an increasingly central role in the fields of academic and industrial science. It overlaps with a diverse range of disciplines, including biotechnology, biopharmaceuticals, and diagnostics—all of which makes a comprehensive introduction to the subject even more essential for students and researchers.

Featuring many of the techniques used by biochemists and molecular biologists, *Bioanalytical Chemistry* reviews all relevant aspects of using analytical methodology to solve biological problems. The end result is an authoritative primer to this expanding field—one that will prove invaluable for advanced undergraduate chemistry and biochemistry students, bioanalytical chemistry graduate students, and practitioners. Each chapter in the book begins with coverage of basic concepts, then progresses to applications that involve real samples.

- Bioanalytical Chemistry covers:
- Spectroscopic methods for matrix characterization
- Structural and functional properties of antibodies
- Principles of electrophoresis
- Centrifugation methods
- Mass spectrometry of biomolecules
- Quantitation of enzymes and their substrates
- Design and implementation of enzyme assays

- Isoelectric focussing
- Chromatography of biomolecules
- Validation of new bioanalytical methods
- And much more

This indispensable guide features end-of-chapter problems and selected answers in the appendix, designed to help students assess their knowledge of each topic. Each chapter also includes suggestions for further reading, and mathematical derivations have been kept to a minimum throughout.

More than any other reference, *Bioanalytical Chemistry* captures the interdisciplinary scope of this emerging field—and uniquely prepares students for collaborative scientific work and research in industrial, government, and academic laboratories.

About the Author

Susan R. Mikkelsen, PhD, is a professor in the Department of Chemistry at the University of Waterloo, Ontario, Canada.

Eduardo Cortón, PhD, is an adjunct professor in the Department of Biological Chemistry at the University of Buenos Aires, Argentina. He is also an investigator for the National Council of Scientific and Technical Research (CONICET) in Argentina.

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