

INTRODUCTION TO PROTEIN MASS SPECTROMETRY

PRADIP K. GHOSH

Introduction to Protein Mass Spectrometry provides a comprehensive overview of this increasingly important, and widely used, analytical technique. The book enables readers to both understand and appreciate how determinations about protein identity from mass spectrometric data are made, and how the method can be used to provide insight into biological and biochemical processes. After introducing technical aspects such as sample preparation, instrumentation, and analysis methods, the book discusses biological applications, bioinformatics tools, databases, and software resources to illustrate how one can extract the most relevant information using this technique. Citing the most recent and relevant work in the field of biological mass spectrometry, the book should be useful for both researchers new to the field and those interested in deepening their understanding of the approach.

Pradip K. Ghosh received his PhD from Indiana University and did his postdoctoral research at Rice University. For most of his career he was on the faculty at the Indian Institute of Technology Kanpur, and recently taught as Visiting Professor at Pomona College and the University of California, Berkeley. His research specialization has been in plasma chemical physics and in mass spectrometry. He is the author of several books, including *Introduction to Photoelectron Spectroscopy* (Wiley-Interscience) and *Ion Traps* (Clarendon Press, Oxford)



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