

# The Encyclopedia of Mass Spectrometry



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著者:Gross, Michael L. (EDT)/ Caprioli, Richard M. (EDT)/ Armentrout, Peter B. (EDT)/  
Caprioli, R. M. (EDT)

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Over the past decades, enormous gains have been made towards the analysis of all the biomolecules in cells. Although early attention was focused on peptides and proteins, a wealth of information is arising about other major biomolecules including nucleic acids, lipids and carbohydrates. In no small way, modern ionization methods, especially electrospray and matrix-assisted laser desorption, have provided a quantum leap in the capabilities of the tools we can now deploy in answering biological questions involving structure and molecular weight of virtually every type of molecule in the cell. Volume 3 covers classes carbohydrates, nucleic acids, and lipids. In addition, special areas of application are also included, such as pharmaceuticals, natural products, isotope ratio methods for biomolecules analysis, and clinical applications. The articles are arranged under general headings for continuity and ease of access, although several of these are of interest across the various disciplines. The articles cover basics and sufficient additional detail to bring the reader up-to-date on a given subject. Some advanced topics are also covered, either in a special section of an article or in additional reading citations. It covers the major classes of biomolecules including carbohydrates, nucleic acids, and lipids. It includes special areas of application, such as pharmaceuticals, natural products, isotope ratio methods for

biomolecules analysis, and clinical applications. It is written for students entering the field of mass spectrometry.

作者介绍:

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