

## M Spectrometry Of Nucleosides And Nucleic Acids

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Assembling the work of an international panel of researchers, Mass Spectrometry of Nucleosides and Nucleic Acids summarizes and reviews the latest developments in the field and provides a window on the next generation of analysis. Beginning with an overview of recent developments, the book highlights the most popular ionization methods and illustrates the diversity of strategies employed in the characterization and sequencing of DNA and RNA oligomers, nucleosides, nucleotides, and adducts. It describes studies performed on deoxyinosine and its analogues and provides an introduction to tandem mass spectrometry (MS/MS). Next, the contributors examine mass spectrometric application in the study of cyclic nucleotides in biochemical signal transduction. They analyze urinary modified nucleosides and explore DNA adducts. They discuss isotope labeling of DNA-mass spectrometry (ILD-MS) and examine various uses of electrospray ionization mass spectrometry (ESI-MS). The book reviews recent progress in the direct MS characterization of noncovalent nucleic acid-protein complexes, explores the interaction and ionization of guanidine-derived compounds with highly acidic biomolecules, and examines quantitative identification of nucleic acids via signature digestion products detected using mass spectrometry. The book describes a direct-infusion ESI-MS approach that can serve as a screening technique for the presence of modified nucleosides from small RNAs. Lastly, it discusses the LC-MS/MS method for the in vitro replication studies on damage-containing DNA substrates, and concludes with an examination of the influence of metal ions on the structure and reactivity of nucleic acids. The exciting developments in mass spectrometry technology have fueled incredible advances in our understanding of nucleic acids and their complexes. The contributions presented in this volume capture the range of these advances, helping to inspire new findings and avenues of research.

Liquid Chromatography: Applications, Second Edition, is a single source of authoritative information on all aspects of the practice of modern liquid chromatography. It gives those working in both academia and industry the opportunity to learn, refresh, and deepen their knowledge of the wide variety of applications in the field. In the years since the first edition was published, thousands of papers have been released on new achievements in liquid chromatography, including the development of new stationary phases, improvement of instrumentation, development of theory, and new applications in biomedicine, metabolomics, proteomics, foodomics, pharmaceuticals, and more. This second edition addresses these new developments with updated chapters from the most expert researchers in the field. Emphasizes the integration of chromatographic methods and sample preparation Explains how liquid chromatography is used in different industrial sectors Covers the most interesting and valuable applications in different fields, e.g., proteomic, metabolomics, foodomics, pollutants and contaminants, and drug analysis (forensic, toxicological, pharmaceutical, biomedical) Includes references and tables with commonly used data to facilitate research, practical work, comparison of results, and decision-making

Mass spectrometry is an analytical technique that can be used for the structural characterization and quantification of a wide range of molecules. The technique is extensively used by chemists for the analysis of small and volatile organic compounds. Mass spectrometry has long been an important technique for the identification of materials ranging from pure compounds to complex mixtures. Mass spectrometry can be used to determine molecular weight of compounds or using different ionization conditions, can provide more structural details through the analysis of fragmentation patterns. This level of detail can be attained for pure compounds and some mixtures. Mass spectrometry can also be combined with separation techniques such as gas chromatography or liquid chromatography to allow more complex mixtures to be examined. These hyphenated techniques provide a range of options for the characterization of complex materials.

Mass Spectrometry in the Biological Sciences covers the most recent technological and applied developments in the area, including both ionization techniques and ion analysis. It introduces and reviews some of the newer ionization methods, describes the major instrumentation involved in mass analysis, and presents the scope of the technology in biology, medicine, and environmental science. Specific examples are given for a number of topics. It also deals with recent achievements in the on-line combination of separation techniques such as gas chromatography, liquid chromatography, and supercritical fluid technology.

This monograph reviews all relevant technologies based on mass spectrometry that are used to study or screen biological interactions in general. Arranged in three parts, the text begins by reviewing techniques nowadays almost considered classical, such as affinity chromatography and ultrafiltration, as well as the latest techniques. The second part focusses on all MS-based methods for the study of interactions of proteins with all classes of biomolecules. Besides pull down-based approaches, this section also emphasizes the use of ion mobility MS, capture-compound approaches, chemical proteomics and interactomics. The third and final part discusses other important technologies frequently employed in interaction studies, such as biosensors and microarrays. For pharmaceutical, analytical, protein, environmental and biochemists, as well as those working in pharmaceutical and analytical laboratories.

Volume 3 looks at classes of biomolecules including carbohydrates, nucleic acids, and lipids. In addition, special areas of application are 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 are intended to teach and therefore strive to 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 articles or in additional reading citations. Covers the major classes of biomolecules including carbohydrates, nucleic acids, and lipids Includes special areas of application, such as pharmaceuticals, natural products, isotope ratio methods for biomolecules analysis, and clinical applications Written for students entering the field of mass spectrometry

Oligonucleotides represent one of the most significant pharmaceutical breakthroughs in recent years, showing great promise as diagnostic and therapeutic agents for malignant tumors, cardiovascular disease, diabetes, viral infections, and many other degenerative disorders. The Handbook of Analysis of Oligonucleotides and Related Products is an essential reference manual on the practical application of modern and emerging analytical techniques for the analysis of this unique class of compounds. A strong collaboration among thirty leading analytical scientists from around the world, the book provides readers with a comprehensive overview of the most commonly used analytical techniques and their advantages and limitations in assuring the identity, purity, quality, and strength of an oligonucleotide intended for therapeutic use. Topics discussed include: Strategies for enzymatic or chemical degradation of chemically modified oligonucleotides toward mass spectrometric sequencing Purity analysis by chromatographic or electrophoretic methods, including RP-HPLC, AX-HPLC, HILIC, SEC, and CGE Characterization of sequence-related impurities in oligonucleotides by mass spectrometry and chromatography Structure elucidation by spectroscopic methods (IR, NMR, MS) as well as base composition and thermal melt analysis (Tm) Approaches for the accurate determination of molar extinction coefficient of oligonucleotides Accurate determination of assay values Assessment of the overall quality of oligonucleotides, including microbial analysis and determination of residual solvents and heavy metals Strategies for determining the chemical stability of oligonucleotides The use of hybridization techniques for supporting pharmacokinetics and drug metabolism studies in preclinical and clinical development Guidance for the presentation of relevant analytical information towards meeting current regulatory expectations for oligonucleotide therapeutics This resource provides a practical guide for applying state-of-the-art analytical techniques in research, development, and manufacturing settings.

Based on presentations made at a workshop on Continuous Flow Fast Atom Bombardment held in Annapolis, Maryland, in November, 1989. Expanded and edited, the papers presented at the workshop form a compact volume reflecting recent advances in a number of key areas in the field of continuous flow fast atom bombardment mass spectrometry. Topics cover non-aqueous applications, biological process monitoring, trace analysis, and design and operational conditions.

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