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Mass 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.

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