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Sommario/riassunto	<p>The book provides a comprehensive guide that covers the fundamental principles and methodologies of essential bioanalytical techniques. Bioanalytical Techniques: Principles and Applications is a comprehensive and authoritative book that explores the principles, methodologies, and applications of bioanalytical techniques in the field of life sciences. The book covers a wide range of analytical techniques used for the characterization, quantification, and analysis of biological samples, including proteins, nucleic acids, metabolites, and biomarkers. Using a multidisciplinary approach by integrating concepts from biochemistry, molecular biology, analytical chemistry, and biotechnology, this book provides a solid foundation in the fundamental principles underlying various bioanalytical techniques, such as spectroscopy, chromatography, electrophoresis, immunoassays, mass spectrometry, and biosensors. Each technique is explained in detail, including its working principles, instrumentation, data analysis, and practical considerations. The book incorporates case studies, examples, and practical tips to illustrate how these techniques are used to solve biological problems and address research questions. It also discusses emerging trends and technologies in bioanalytical</p>

techniques, such as microfluidics, nanotechnology, and omics approaches. Readers will find the book: Offers comprehensive coverage of bioanalytical techniques, encompassing a wide range of methodologies, instruments, and applications through real-world case studies; Adopts a multidisciplinary approach, integrating concepts from biochemistry, molecular biology, analytical chemistry, and biotechnology; Explores emerging trends and technologies in bioanalytical techniques, such as microfluidics, nanotechnology, omics approaches, and bioinformatics; Includes practical guidance, troubleshooting tips, and common challenges in bioanalysis, equipping readers with valuable insights and strategies for successful experimentation and data interpretation; Features contributions from renowned experts and leaders in the field, ensuring the content is authoritative, up-to-date, and reflects the latest advancements in bioanalytical techniques. Audience Biochemists, biologists, chemists, and medical and pharmaceutical professionals interested in biomolecules, enzymology, and biochemical pathways.
