



Fundamentals of Advanced Omics Technologies: From Genes to Metabolites (Comprehensive Analytical Chemistry)

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Fundamentals of Advanced Omics Technologies: From Genes to Metabolites covers the fundamental aspects of the new instrumental and methodological developments in omics technologies, including those related to genomics, transcriptomics, epigenetics, proteomics and metabolomics, as well as other omics approaches such as glycomics, peptidomics and foodomics. The principal applications are presented in the following complementary volume.

The chapters discuss in detail omics technologies, DNA microarray analysis, next-generation sequencing technologies, genome-wide analysis of methylation and histone modifications, emerging nanotechniques in proteomics, imaging mass spectrometry in proteomics, recent quantitative proteomics approaches, and advances in high-resolution NMR-based metabolomics, as well as MS-based non-targeted metabolomics and metabolome analysis by CE-MS, global glycomics analyses, foodomics, and high resolution analytical tools for quantitative peptidomics. Key aspects related to chemometrics, bioinformatics, data treatment, data integration and systems biology, deep-sequencing data analysis, statistical approaches for the analysis of microarray data, the integration of transcriptome and metabolome data and computational approaches for visualization and integration of omics data are also covered.

- Covers the latest advances in instrumentation, experimental design, sample preparation, and data analysis
- Provides thorough explanations and descriptions of specific omics technologies
- Describes advanced tools and methodologies for data pretreatment, storage, curation and analysis, as well as data integration

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