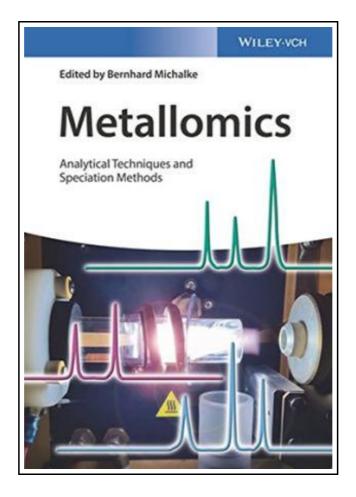
Metallomics



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Reviews

Undoubtedly, this is the greatest job by any author. It is actually filled with wisdom and knowledge I am quickly could get a pleasure of reading a written book.

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METALLOMICS



Condition: New. Publisher/Verlag: Wiley-VCH | Analytical Techniques and Speciation Methods | Latest developments, new insights and knowledge derived from speciation analysis in one unique compilation: The reader gets acquainted with relevant instrumental as well as application aspects of metallomics approaches, paving the road to understanding fate, pathway, and action of metals in environment and organisms. Upon an introductory chapter on analytical methods and strategies, the full bandwidth of applications is discussed. Expert chapter authors cast spotlights on recent topics such as metallomics applications to environmental and nutrition studies as well as biology and medicine. Special chapters deal with the impact of manganese and iron on neurodegeneration, and the impact of nanoparticles on health. | PrefacePART I. Analytical Methods and Strategies in MetallomicsTHE POSITION OF METALLOMICS WITHIN OTHER OMICS FIELDSIntroductionMetallome and Metallomics in Relation to Other "-Ome" and "-Omics" FieldsIs Metallomics Feasible as a Global Study of the MetallomeApproaching the Metallome: Study of Metallome SubgroupsAnalytical Strategies in MetallomicsFunctional Connections Between DNA, Proteins, Metabolites, and MetalsMetallothiolomics as Example for Metallomics Studies of a Metallome SubgroupConcluding RemarksCOUPLING TECHNIQUES AND ORTHOGONAL COMBINATION OF MASS SPECTROMETRIC TECHNIQUESIntroductionAnalytical Techniques for MetallomicsIonization Principles and Mass Spectrometric Detectors for SpeciationOverview about Coupling TechniquesFinals Remarks and OutlookQUALITY CONTROL IN SPECIATION ANALYSIS USING HPLC WITH ICP-MS AND ESI MS/MS: **FOCUS** ON **QUANTITATION STRATEGIES USING ISOTOPE** ANALYSISIntroductionSynergetic Use of Elemental and Organic Mass Spectrometry in Compound Quantitation and Quality Assurance of Food Selenium SpeciationThe Role of Species-Specific Isotopic Dilution in Increasing Metrological Traceability for the Quantification of Bioinorganic SpeciesNOVEL METHODS FOR BIOIMAGING INCLUDING LA-ICP-MS, NanoSIMS, TEM/X-EDS, AND SXRFIntroductionBioimaging by LA-ICP-MSBioimaging by NanoSIMSBioimaging by TEM/X-EDSBioimaging by SXRFConclusions and OutlookELECTROCHEMISTRY COUPLED TO MASS SPECTROMETRY FOR INVESTIGATING OXIDATIVE METABOLISM OF PT-BASED DRUG CONJUGATES: A NOVEL APPROACHIntroductionEC-MS MethodologyEC-MS of ThiolsInfluence of Cisplatin on Thiol OxidationConclusionsPART II. Metallomics in Environment and NutritionSELENIUM AND SELENIUM SPECIESSpeciation...



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