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Instrumentation, Methods, and Applications V. Havlicek and J. Spizek 2. The Antibiotic Crisis with Respect to Antifungal and Antimalarial Antibiotics J. Spizek and A. Demain 3. Emerging Instrumental Methods for Antimicrobial Resistance and Virulence Testing P. A. Demirev 4. Plant and Marine Sources: Biological Activity of Natural Products and Therapeutic Use A. Amedei and E. Niccolai 5. Emerging Trends for Stimulating the Discovery of Natural Products N. Adnani, G. A. Ellis, J. C. Kwan, T. P. Wyche, E. W. Schmidt and T.S. Bugni 6. Advances and Challenges in Optical Molecular Spectroscopy Including Surface Plasmon Resonance Methods for Bioanalysis P. Matejka, B. Vlckova, L. Bednarova and P. Malon 7. Advanced Techniques for NMR Analysis of Complex Biological Mixtures - From Simple NMR to Hyphenated Techniques M. Kuzma, H. Pelantova and S. Bartova 8. Advances in X-ray Diffraction: Implications to Pharmaceutical Industry A. Jegorov and M. Husak 9. Laser Ablation Inductively Coupled Plasma Mass Spectrometry as a Tool in Biological Sciences M. Vasinova-Galiova and J. Havlis, V. Kanicky 10. Imaging Mass Spectrometry, metabolism and New Views of the Microbial World B. C. Hoeffler and P. D. Straight 11. Structural Separations for Natural Product Characterization by Ion Mobility Mass Spectrometry: Fundamental Theory to Emerging Applications S. M. Stow, N. M. Lareau, K. M. Hines, C. R. McNees, C. R. Goodwin, B. O. Bachmann and J. A. McLean 12. High Resolution Tandem Mass Spectrometry for Non-ribosomal Peptide and Polyketide Analysis R. H. Wills, M. Tosin and P. B. O'Connor 13. Natural Product Drug Discovery and Analysis Using Mass Spectrometry and Affinity-based Technologies E. H. Wang and K. A. Schug 14. Glycosylated Ribosomally-Synthesized Peptide Toxins: Discovery, Characterization and Applications G. E. Norris and M. L. Patchett 15. Using Ultrahigh Resolution Mass Spectrometry to Unravel the Chemical Space of Complex Natural Product Mixtures C. Muller, M. Harir, N. Hertkorn, B. Kanawati, D. Tziotis and P. Schmitt-Kopplin 16. Functional Amyloids Fibrils: Lessons from Microbes S. L. Gras and D. Claessen Index .

Sommario/riassunto

"This book highlights analytical chemistry instrumentation and practices applied to the analysis of natural products and their complex mixtures, describing techniques for isolating and characterizing natural products. Applies analytical techniques to natural products research - an area of critical importance to drug discovery Offers a one-stop shop for most analytical methods: X-ray diffraction, NMR analysis, mass spectrometry, and chemical genetics Includes coverage of natural products basics and highlights antibacterial research, particularly important as efforts to combat drug resistance gain prominence Covers instrumental techniques with enough detail for both current practitioners and beginning researchers"--

"This book highlights analytical chemistry instrumentation and practices applied to the analysis of natural products and their complex mixtures, describing techniques for isolating and characterizing natural products"--