



Molecular Technologies for Detection of Chemical and Biological Agents [

Banoub, Joseph H.,

editor

Caprioli, Richard M.,

editor

Springer Netherlands :

Imprint: Springer,

2017

Monografía

This book describes the latest molecular insights needed to understand the chemical and biological (CB) agents and their associated biotechnologies. Its primary focus is to present and discuss molecular technologies such as mass spectrometry, chemical and biological sensors, chromatographic and electrophoretic separation, and comparisons of spectroscopic, immunological and molecular analyses of chemicals used for the detection of chemical and biological agents and to prevent terrorism. This NATO-ASI book also contributes to the critical assessment of existing knowledge on new and important detection technologies. It helps to identify directions for future research and to promote closer working relationships between scientists from different professional fields. .

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMTkxOTc1MjE>

Título: Molecular Technologies for Detection of Chemical and Biological Agents Recurso electrónico] edited by Joseph H. Banoub, Richard M. Caprioli

Editorial: Dordrecht Springer Netherlands Imprint: Springer 2017

Descripción física: IX, 306 p. 166 illus., 106 illus. in color. online resource

Mención de serie: NATO Science for Peace and Security Series A: Chemistry and Biology 1874-6489

Contenido: chapter 1: Immunorecognition of Biological Agents (Alessia Ciafarone) -- Chapter 2: Vaccines, Sera and (QA(B(3L(Bnew(QA(B(3M (BVIruses (Alessia Ciafarone) -- Chapter 3: Fundamental Principles for Sensing Measuring Devices Used for the Detection of Chemical Warfare Agents (Farid Jahouh) -- Chapter 4: Fundamental Principles for Luminescence Sensing Measuring Devices Used for the Detection of Biological Warfare Agents (Joseph H. Banoub) -- Chapter 5: Mass Spectrometry and High Resolution Mass Spectrometry (Gianluca Giorgi) -- Chapter 6: Primary Considerations in Quantitative Mass Spectrometry (Marc Duncan) -- Chapter 7: Imaging Mass Spectrometry (Richard M. Caprioli) -- Chapter 8: MALDI Mass Spectrometry and Infectious Diseases (Jessica L. Moore) -- Chapter 9: Soft X-ray radiation applied in the analysis of intact viruses (Guenter Allmaier) -- Chapter 10:

Mass Spectrometry in Environmental Chemistry and Toxicology (Ksenia J Groh) -- Chapter 11: Enhancing the Analysis of Complex Lipid Samples through Developments (Samuel W. J. Shields) -- Chapter 12: Advanced Mass Spectrometric Methodologies in the Evaluation of Health Risk (Giovanni Sindona) -- Chapter 13: A Tandem Mass Spectrometry Strategy for Validating the Synthesis of Glycoconjugate Vaccines (Wael Demain) -- Chapter 14: Explosive Detection Strategies for Security Screening at Airports (Peter Pallister) -- Chapter 15: Synthesis and ESI-MS/MS Fragmentation Study of Two New Isomeric Oxazolidin-2-one Derivatives -- Chapter 16: The Use of Multiple Fragmentation Events in a Single Laser Shot for Improved Drug (Boone M. Prentice) -- Chapter 17: Detection and Monitoring of Subsurface Contamination by Using Geophysical Methods and Data (Ali Ismet Kanli) -- Chapter 17: Captagon Drug Used in Jihadist Attacks. Is it Possible to Search (Emanuela vitale) -- Chapter 18: Monitoring of Cadmium and Lead in the Kidneys of Ovine and Caprine Animals (Iilir Pecnikaj) -- Chapter 20: Quantitative analysis of Dysregulated Proteome in Methylmalonic Acidemia (Costanzo Michele)

ISBN: 9789402411133

Materia: Chemistry Medical microbiology Analytical chemistry Biotechnology Proteomics System safety Spectroscopy Microscopy Chemistry Analytical Chemistry Proteomics Medical Microbiology Spectroscopy and Microscopy Biotechnology Security Science and Technology

Autores: Banoub, Joseph H., editor Caprioli, Richard M., editor

Entidades: SpringerLink Book Series (Online Service)

Punto acceso adicional serie-Título: NATO Science for Peace and Security Series A: Chemistry and Biology 1874-6489

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es