1. Record Nr. UNINA9911019255103321

Titolo	Biological chemistry of arsenic, antimony and bismuth / / editor, Hongzhe Sun
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2011
ISBN	9786612889288 9780470976227 0470976225 9781282889286 1282889281 9780470975503 0470975504 9780470975497 0470975490
Descrizione fisica	1 online resource (401 p.)
Altri autori (Persone)	SunHongzhe
Disciplina	615.9/25715
Soggetti	Arsenic - Physiological effect Antimony - Physiological effect Bismuth - Physiological effect Group 15 elements - Physiological effect
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Biological Chemistry of Arsenic, Antimony and Bismuth; Contents; List of Contributors; Preface; 1 The Chemistry of Arsenic, Antimony and Bismuth; 2 Arsenic's Interactions with Macromolecules and its Relationship to Carcinogenesis; 3 Biological Chemistry of Antimony and Bismuth; 4 Metallomics Research Related to Arsenic; 5 Arsenic in Traditional Chinese Medicine; 6 Microbial Transformations of Arsenic in Aquifers; 7 Biomethylation of Arsenic, Antimony and Bismuth; 8 Metalloid Transport Systems; 9 Bismuth Complexes of Porphyrins and their Potential in Medical Applications 10 Helicobacter pylori and Bismuth11 Application of Arsenic Trioxide Therapy for Patients with Leukemia; 12 Anticancer Activity of Molecular

	Compounds of Arsenic, Antimony and Bismuth; 13 Radiobismuth for Therapy; 14 Genetic Toxicology of Arsenic and Antimony; 15 Metalloproteomics of Arsenic, Antimony and Bismuth Based Drugs; Index
Sommario/riassunto	Arsenic, antimony and bismuth, three related elements of group 15, are all found in trace quantities in nature and have interesting biological properties and uses. While arsenic is most well known as a poison - and indeed the contamination of groundwater by arsenic is becoming a major health problem in Asia - it also has uses for the treatment of blood cancer and has long been used in traditional Chinese medicine. Antimony and bismuth compounds are used in the clinic for the treatment of parasitic and bacterial infections. Biological Chemistry of Arsenic, Antimony and Bismuth is an es