

1. Record Nr.	UNINA9910298429003321
Titolo	Biomedical Applications of Metals // edited by Mahendra Rai, Avinash P. Ingle, Serenella Medici
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-74814-9
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (332 pages) : illustrations
Disciplina	610.28
Soggetti	Pharmacology Cancer research Pharmacology/Toxicology Cancer Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1: Applications of Metals in Medicine -- Noble Metals in Pharmaceuticals: Applications and Limitations -- The Intriguing Potential of "Minor" Noble Metals: Emerging Trends and New Applications -- Metal-on-Metal Hip Total Hip Arthroplasty: Progress and Problems -- Copper in Medicine: Perspectives and Toxicity -- Silver: Biomedical Applications and Adverse Effects -- The Potential of Metals in Combating Bacterial Pathogens -- Platinum in Biomedical Applications -- Metal-Based Drugs for Treatment of Malaria -- Metal Based Therapy in Traditional and Modern Medicine System and Cancer Therapy: Implications and Limitations -- Mechanism of Action of Anticancer Metallodrugs -- Part 2: Toxicity of Metals -- Toxicity of Bhasmas and Chelating Agents of Ayurveda -- The Flop Side of Using Heavy Metal (oids)s in the Traditional Medicine: Toxic Insults and Injury to Human Health -- Impact of Heavy Metal Carcinogens on Human Health -- Biochemical and Molecular Targets of Heavy Metals and Their Actions.
Sommario/riassunto	Focused more specifically on the recent advances in applications of various metals and their complexes used in biomedicine, particularly in the diagnosis and treatment of chronic diseases. The editors give equal importance to other key aspects such as toxicological issues and safety

concerns. The application of metals in the biomedical field is highly interdisciplinary and has a broad appeal across all biomedical specialties. Biomedical Applications of Metals is particularly focused on covering the role of metals in medicine and the development of novel therapeutic products and solutions in the form of alternative medicines, and some topics on Indian traditional medicine i.e., "Ayurveda". In Section I, the book discusses the role of metals in medicines and include chapters on nanoparticles, noble metals, medical devices, copper, selenium, silver, and microbial pathogens; while Section II includes topics on metals toxicity including heavy metals, carcinogens, cancer therapy, Bhasma's and chelating agents used in Ayurveda, and biochemical and molecular targets including actions of metals. These new and emerging concepts of applications of metals in medicine, their crucial role in management of microbial resistance, and their use in the treatment of various chronic diseases is essential information for toxicologists, and clinical and biomedical researchers.
