

1. Record Nr.	UNINA9910822628703321
Titolo	Elemental speciation in human health risk assessment // first draft prepared by P. Apostoli ... [et al.]
Pubbl/distr/stampa	Geneva, : World Health Organization, 2006
ISBN	1-281-30751-3 9786611307516 92-4-068249-X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (256 p.)
Collana	Environmental health criteria, , 0250-863X ; ; 234
Altri autori (Persone)	ApostoliP (Pietro)
Disciplina	615.9515
Soggetti	Trace elements - Speciation Health risk assessment Biological monitoring Bioavailability Analytical toxicology Chemical elements - Physiological effect
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Published under the joint sponsorship of the United Nations Environment Programme, the International Labour Organization and the World Health Organization, and produced within the framework of the Inter-Organization Programme for the Sound Management of Chemicals."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	TITLE; COPYRIGHT; CONTENTS; NOTE TO READERS OF THE CRITERIA MONOGRAPHS; PREAMBLE; WHO TASK GROUP ON ENVIRONMENTAL HEALTH CRITERIA FOR ELEMENTAL SPECIATION IN HUMAN HEALTH RISK ASSESSMENT; ACRONYMS AND ABBREVIATIONS; 1. SUMMARY; 2. DEFINITIONS OF SPECIES AND SPECIATION; 3. STRUCTURAL ASPECTS OF SPECIATION; 4. ANALYTICAL TECHNIQUES AND METHODOLOGY; 5. BIOACCESSIBILITY AND BIOAVAILABILITY; 6. TOXICOKINETICS AND BIOLOGICAL MONITORING; 7. MOLECULAR AND CELLULAR MECHANISMS OF METAL TOXICITY; 8. HEALTH EFFECTS; 9. CONCLUSIONS AND RECOMMENDATIONS; REFERENCES; RESUME; RESUMEN; INDEX OF ELEMENTS;
Sommario/riassunto	The purpose of this book is to assess, evaluate, and give guidance on

the role of elemental speciation and speciation analysis in human health hazard and risk assessment. The book is directed at risk assessors and regulators, to emphasize the importance of consideration of speciation in their deliberations. To date, this issue has not been a part of most hazard and risk assessments. Further aims of the publication are to encourage the analysis of speciation of elements to increase knowledge on the effect of speciation on mode of action and to increase understanding of health effects.

---