

1. Record Nr.	UNINA9910782122703321
Titolo	Organophosphates and health [[electronic resource] /] / editors, Lakshman Karalliedde ... [et al.]
Pubbl/distr/stampa	London, : Imperial College Press Singapore ; ; River Edge, NJ, : Distributed by World Scientific Pub. Co., c2001
ISBN	1-281-86599-0 9786611865993 1-84816-144-1
Descrizione fisica	1 online resource (512 p.)
Altri autori (Persone)	KarallieddeLakshman
Disciplina	615.9517
Soggetti	Organophosphorus compounds - Toxicology Toxicology
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	CONTENTS ; Preface ; Acknowledgements ; List of Contributors ; Abbreviations ; Introduction ; 1. Organophosphates: History Chemistry Pharmacology ; 1.1. INTRODUCTION ; 1.2. HISTORY ; 1.3. STRUCTURE AND NOMENCLATURE OF ORGANOPHOSPHATE ANTI ChEs ; 1.4. EFFECTS OF OPs 1.5. OPS USED FOR PROPERTIES OTHER THAN ANTICHe ACTIVITY. References ; 2. Socio-Economics Health Issues and Pesticides ; 2.1. Introduction ; 2.2. Role in Control of Vector Borne Diseases ; 2.3. Role in Food Production and Storage ; 2.4. Pesticide- Associated Human Ill-Health 2.5. Effects on the Environment and Wild Life 2.6. Insecticide-Related Disease and Global Health Priorities ; 2.7. Role of Industry ; 2.8. Environmental Changes: Effect on Food and Disease ; 2.9. Alternatives ; 2.10. Conclusions ; Acknowledgements ; Other sources of information

Thanks	3. Factors Influencing Organophosphate Toxicity in Humans	
		; 3.1. Introduction
		; 3.2. Route of Exposure and Absorption
	3.3. Dose	; 3.4. Distribution ; 3.5. Metabolism
		; 3.6. Tissue binding ; 3.7. Elimination
	3.8. Alterations in Metabolism	; 3.9. Racemic Mixtures
	3.10. Concluding Remarks	References ; 4.
	Organophosphorus Chemical Warfare Agents	
		; 4.1. Introduction ; 4.2. Physical properties
		; 4.3. Toxicology ; 4.4. General Toxicity
		; 4.5. Effects of Subchronic or Longterm Exposure to Nerve Agents
		; 5. Diagnosis ; 6. Treatment
		7. Prophylaxis of nerve agent poisoning

Sommario/riassunto

Few chemical compounds created by man have caused greater controversy than organophosphates. Conceived as insecticides, they have also been developed to become the most feared of chemical weapons. The control of vectors of diseases from which millions die or are disabled is heavily dependent on organophosphates, as are efforts to maintain food production in the face of uncontrolled population growth, diminishing arable land and the possibility of global warming. As the toxicity of organophosphates is non-specific, it has caused ill health and death in man, and has contributed to adverse ecolog