

1. Record Nr.	UNINA9910876726003321
Titolo	Pesticide toxicology and international regulation // edited by Timothy C. Marrs and Bryan Ballantyne
Pubbl/distr/stampa	Chichester, West Sussex, England ; ; Hoboken, N.J., : J. Wiley, c2004
ISBN	1-280-26920-0 9786610269204 0-470-09166-5 0-470-09167-3
Descrizione fisica	1 online resource (584 p.)
Collana	Current toxicology series
Altri autori (Persone)	MarrsTimothy C BallantyneBryan
Disciplina	615.9/51
Soggetti	Pesticides - Toxicology Pesticides - Health aspects Pesticides - Government policy
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	Pesticide Toxicology and International Regulation; Contents; Preface; List of Contributors; Frequently Used Abbreviations; Toxicity Classifications and Hazard Ratings; 1 Pesticides: An Overview of Fundamentals; Definition and introductory generalizations; Major historical features; Classification and nomenclature; Exposure to pesticides; routes, monitoring, and protection; Health issues; Regulation of pesticides; References; Part I Insecticides; 2 Toxicology of Organochlorine Insecticides; Lindane/hexachlorocyclohexane (HCH); Cyclodiene and related insecticides; Toxaphene DDT and its analoguesDDT; Mirex and chlordecone; Regulatory aspects; Summary; References; 3 Anticholinesterase Insecticides; Introduction; AChE; Major classes of anti-AChE insecticides; Toxicological consequences of AChE inhibition; Therapy for cholinergic toxicity; Regulatory aspects of anti-AChE insecticides; Acknowledgements; References; 4 Toxicology of Pyrethrins and Synthetic Pyrethroids; Usage and human exposure; Mechanisms of toxicity; Systemic poisoning; Pathology; Paraesthesia and local irritation; Developmental

neurotoxicity; Reference values for synthetic pyrethroids; References
5 Toxicology of Miscellaneous Insecticides Introduction; Neuroactive
insecticides; Insect growth regulators; Plant insecticides; Biochemical
insecticides; References; Part II Fungicides, Herbicides and Growth
Regulators; 6 Toxicology of Fungicides; Introduction; Halogenated
substituted monocyclic aromatics; Dithiocarbamate fungicides;
Dithiocarbamates; Ethylene bisdithiocarbamates;
Benzimidazole/thiabendazole fungicides;
Chloroalkylthiodicarboximides; Azoles; Morpholines; Carboxanilides
(oxathiins); Organophosphates; Piperazines; Metallic fungicides;
Miscellaneous; Aliphatic aldehydes
Thiocarbonates Antibiotics; Cinnamic acid class; Appendix: Complete
listing of fungicides by chemical classes; References; 7 Toxicology of
Herbicides; Herbicides; Inorganic herbicides; Bipyrilidium herbicides;
Phenoxy acid herbicides; Substituted anilines; Ureas and thioureas;
Nitriles; Triazines and triazoles; Organic phosphorus herbicides;
Defoliants and dessicants, and plant growth regulators; References;
Part III Special Types of Pesticide; 8 Microbial Pesticides; Introduction;
Regulatory approaches; Toxicity of particular organisms; References; 9
Biocides; Introduction
Chemistry of biocides 2,2-Dibromo-3-nitrilopropionamide (DBNPA);
Methylenebisthiocyanate (MBT); Quarternary ammonium compounds
(quats); 2-Bromo-2-nitropropane-1,3-diol (bronopol; BNP); iso-
Thiazolones; Tetra-(hydroxymethyl)-phosphonium sulphate (THPS);
Peracetic acid (PAA); Glutaraldehyde (GA); References; Part IV Residues;
10 Variability of Residues in Unprocessed Food Items and its Impact on
Consumer Risk Assessment; Variability of pesticide residues; Maximum
residue limits; Minor crops; Derivation of MRLs; Discovery of residue
variability in UK crops; Further studies on variability
Implications of variability and derivation of the variability factor

Sommario/riassunto

This book brings together key features of the toxicology and occupational hazards of pesticides and the way their use is regulated in the main trading regions of the world. There are chapters on each of the main groups of insecticides, namely organochlorines, anticholinesterases and pyrethrins and pyrethroids. The book also covers fungicides and herbicides, as well as more specialised agents such as microbial pesticides. The risks and hazards to humans are considered, both occupational and through the consumption of contaminated foodstuffs. Additionally, clinical aspects of pesticide poisoning
