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Titolo	Plant toxins // P. Gopalakrishnakone, editor in chief ; Celia Regina Carlini, Rodrigo Ligabue-Braun, editors
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ISBN	94-007-6464-2
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Descrizione fisica	1 online resource (96 illus., 57 illus. in color. eReference.)
Collana	Toxinology
Disciplina	615.19
Soggetti	Pharmaceutical technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Biotechnological Potential of Ribosome Inactivating Proteins (RIPs) -- Cyanotoxins Cyclotides: Plant Defense Toxins -- Entomotoxic Plant Proteins: Molecules to Develop Genetically Modified Plants Potentially Resistant to Insect-Pests -- General Mechanisms of Plant Defense -- Locoweeds and Swainsonine -- Moonlighting Toxins: Ureases and Beyond -- Oleander Poisoning -- Phycotoxins Other Than Cyanotoxins -- Plant AB Toxins with Lectin Domains -- Plant Alkaloids: Main Features, Toxicity, and Mechanisms of Action -- Plant and Fungal Hallucinogens as Toxic and Therapeutic Agents -- Plant Compounds with Antiophidic Activities, Their Discovery History, and Current and Proposed Applications -- Plant Cyanogenic Glycosides -- Plant Toxins as Sources of Drugs -- Plants Toxic to Farm and Companion Animals -- Proteinaceous Plant Toxins with Antimicrobial and Antitumor Activities Ribosome-Inactivating Proteins: An Overview -- Suicidal Plant Poisoning -- The Role of Metal-Based Defenses in Plants -- Toxic but Exploitable Actions of Ribosome-Inactivating Proteins -- Toxic Chemicals from Invasive Alien Plants -- Toxic Nonprotein Amino Acids.
Sommario/riassunto	This volume, in its over two dozen chapters, constitutes an overview of the current plant toxin research. It covers from general aspects of plant toxicity to in-depth reviews of various classes of toxins, their structures, synthesis, modes of action, and upcoming uses in biotechnology. It provides an encompassing landscape of plant toxinology for both toxinologists and non-toxinologists alike.

