

1. Record Nr.	UNINA9910484234403321
Titolo	Medicinal herbs and fungi : neurotoxicity vs. neuroprotection // Dinesh Chandra, Muralikrishnan Dhanasekaran (editors)
Pubbl/distr/stampa	Gateway East, Singapore : , : Springer, , [2021] Â©2021
ISBN	981-334-141-6
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XXII, 510 p. 74 illus., 41 illus. in color.)
Disciplina	572.2
Soggetti	Botanical chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Mitosis Inhibitors and Medicinal Plants – Neurotoxicity and Neuroprotection.-Chapter 2. The Neurotrophic and Neuroprotective Potential of Macrofungi -- Chapter 3. Andrographolide, a Diterpene from Andrographis paniculata, and Its Influence on the Progression of Neurodegenerative Disorders -- Chapter 4 Ginseng: A Boon or a Curse to Neurodegenerative Diseases -- Chapter 5 Insights into Mechanisms and Models for Studying Neurological Adverse Events Mediated by Pharmacokinetic Interactions Between Clinical Drugs and Illicit Substances of Herbal and Fungal Origin -- Chapter 6 Cannabis Induced Neuroactivity: Research Trends and Commercial Prospects -- Chapter 7 Neurotoxicity of Polyherbal Formulations: Challenges and Potential Solutions -- Chapter 8 Balancing the Neuroprotective Versus Neurotoxic Effects of Cannabis -- Chapter 9 Alpha-Synuclein: Biomarker for Parkinson’s Disease, It’s Estimation Methods and Targeted Medicinal Therapies -- Chapter 10 Screening of Herbal Medicines for Neurotoxicity: Principles and Methods -- Chapter 11 Plants with Phytomolecules Recognized by Receptors in The Central Nervous -- Chapter 12 Reserpine Induced Depression and Other Neurotoxicity: A Monoaminergic Hypothesis -- Chapter 13 Traditional Medicinal Plants of Sri Lanka and Their Derivatives of Benefit to the Nervous System -- Chapter 14 Ameliorative Effects of Shodhana (Purification) Procedures on Neurotoxicity Caused by Ayurvedic Drugs of Mineral and Herbal Origin -- Chapter 15 St. John’s Wort: A

Therapeutic Herb to be Cautioned for Its Potential Neurotoxic Effects and Major Drug Interactions -- Chapter 16. Neurotoxic Potential of Alkaloids from Thorn Apple (*Datura stramonium* L.) - A Commonly Used Indian Folk Medicinal Herb -- Chapter 17 Medicinal Plants in Uganda as Potential Therapeutics Against Neurological Disorders -- Chapter 18 Ayurvedic Ideology on Rasapanchak Based Cognitive Drug Intervention -- Chapter 19 Neurotoxic Medicinal Plants of Indian Himalayan Regions: An Overview -- Chapter 20. Neuroprotective Effects of *Portulaca oleracea* and *Portulaca quadrifida* Linn. .

---

Sommario/riassunto

The ever-rising increase in the consumption of medicinal herbs and its products and its exposure in the human population have generated concerns about the potential neurotoxicity of several new and existing botanicals. This book offers an accurate, relevant, and comprehensive coverage of a wide variety of medicinal herbs and fungi affecting the central and peripheral nervous system. It includes review articles that thoroughly describe the benefits and adverse effects of some of the most commonly used medicinal herbs and fungi, and the pathophysiological mechanisms underlying them. The book provides an all-inclusive overview of the diverse aspects of medicinal herbs and fungi related to neurotoxicity and/or neuroprotection, ranging from discussions of cellular and molecular processes and pathology to clinical aspects. The rich compilation brings together thorough and extensive research updates on the advances in the field. The chapters have been contributed by the experienced and eminent academicians, researchers, and scientists working in the field across the globe.

---