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Marine and Freshwater Toxins [

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Monografía

In recent years, the field of Toxinology has expanded substantially. On the one hand it studies venomous animals, plants and micro organisms in detail to understand their mode of action on targets. While on the other, it explores the biochemical composition, genomics and proteomics of toxins and venoms to understand their three interaction with life forms (especially humans), development of antidotes and exploring their pharmacological potential. Therefore, Toxinology has deep linkages with biochemistry, molecular biology, anatomy and pharmacology. In addition, there is a fast developing applied subfield, clinical toxinology, which deals with understanding and managing medical effects of toxins on human body. Given the huge impact of toxin-based deaths globally, and the potential of venom in generation of drugs for so-far incurable diseases (for example, Diabetes, Chronic Pain), the continued research and growth of the field is imminent. This has led to the growth of research in the area and the consequent scholarly output by way of publications in journals and books. Despite this ever growing body of literature within biomedical sciences, there is still no all-inclusive reference work available that collects all of the important biochemical, biomedical and clinical insights relating to Toxinology. The Handbook of Toxinology aims to address this gap and cover the field of Toxinology comprehensively

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Short Review -- Toxins Produced by Marine Invertebrate and Vertebrate Animals: A Short Review -- Pufferfish Poisoning and Tetrodotoxin -- Ciguatoxin and Ciguatera -- Saxitoxin and Other Paralytic Toxins: Toxicological Profile -- Brevetoxins: Toxicological Profile -- Okadaic Acid and Other Diarrheic Toxins: Toxicological Profile -- Domoic Acid and Other Amnesic Toxins: Toxicological Profile -- Azaspiracid Toxins: Toxicological Profile -- Spirolides and Cyclic Imines: Toxicological Profile -- Palytoxins: Toxicological Profile -- Effects of Cyanotoxins: Sea and Freshwater Toxins -- Microcystins: Toxicological Profile -- Jellyfish Venom and Toxins : A Review -- Equinatoxins: A Review -- Intoxications Caused by Saxitoxin, Shellfish, and Other Neurotoxins -- Phylum Echinodermata e Annelida: Sea Urchins, Starfish and Sea Cucumbers, and Marine Worms -- Instrumental Methods for Paralytic Shellfish Toxins -- Immunomodulatory Properties of Sea Cucumber Triterpene Glycosides -- Miscellaneous Marine Toxins of Medical Significance. .

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