



Animal Toxins

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Condition: New. Publisher/Verlag: Springer, Basel | Facts and Protocols | This manual surveys toxins from insects, spiders, mollusks, fish, and snakes which have biotechnological applications. It reviews aspects of toxin origin, their molecular mechanism, and their cellular and pathogenic effects. It also provides methodology for the application of these toxins in the research laboratory. This includes a description of the extraction methods, biochemical characterization, and applications in pharmacological studies. | 1. Assays for Dinoflagellate Toxins, Specifically Brevetoxin, Ciguatoin, and Saxitoxin.- 2. Maitotoxin, Okadaic Acid and Microcystins: Toxins That Disturb Signal Transduction and Phosphorylations.- 3. Sea Anemone Toxins Acting on Na⁺ Channels and K⁺ Channels: Isolation and Characterization.- 4. Nemertine Toxins.- 5. Conus Peptides and their Iodinated Derivatives as Probes for Ion Channels and Receptors.- 6. Ant Polypeptide Toxins.- 7. Wasp Kinins and Kinin Analogues.- 8. Mastoparan as a G Protein Activator.- 9. Pharmacologically Active Peptides and Proteins from Bee Venom.- 10. Purification and Characterization of Scorpion Toxins Acting on Voltage-Sensitive Na⁺ Channels.- 11. Immunological Properties of Scorpion Toxins.- 12. Scorpion Toxins and Potassium Channels.- 13. Chemical Synthesis and Characterization of Small Proteins: Example of Scorpion Toxins.- 14. Characterization of Animal Toxins Binding to Ionic Channels from Electrophysiological Recordings.- 15. "Three-Fingered"...



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