



## Animal toxins : facts and protocols /

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2000

Laboratory Manual   Laboratory manuals.   Laboratory manuals.   Manuals  
de laboratoire.

Monografía

Natural toxins form a major component of the molecular tools used increasingly frequently by the ever growing number of laboratories of various kinds. Evidence for this is provided not only by the increasing number of firms including such toxins in their catalogues but also by the large number of demands received by those who discover new toxins. Twenty chapters survey important aspects of toxin origin, their structure and molecular mechanism, and their cellular and pathogenic effects. In addition, the text provides comprehensive and specific methodology for the application of these toxins in the research laboratory. This begins with the description of the method of extraction, biochemical and pharmacological characterization, and assessment of purity, and continues with methods for chemical modification, e.g. labelling, and eventually describes applications in pharmacological studies in vivo and/or in vitro. The length of this book has been kept reasonable by concentrating on animal toxins ...

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**Mención de serie:** Methods and tools in biosciences and medicine

**Bibliografía:** Includes bibliographical references (pages 342-346)

**Contenido:** 1. Assays for Dinoflagellate Toxins, Specifically Brevetoxin, Ciguatoxin, and Saxitoxin -- 2. Maitotoxin, Okadaic Acid and Microcystins: Toxins That Disturb Signal Transduction and Phosphorylations -- 3. Sea Anemone Toxins Acting on Na<sup>+</sup> Channels and K<sup>+</sup> 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<sup>+</sup> 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" Toxins from Hydrophid and Elapid Snakes: Artificial Procedures to Overproduce Wild-Type and Mutated Curaremimetic Toxins -- 16. Elapidae Toxins: The Fasciculins, and their Interaction with Acetylcholinesterase -- 17. Dendrotoxins and BPTI-like Proteins -- 18. Sarafotoxins: Cloning of mRNAs Encoding Sarafotoxin Precursors -- 19. Snake Venom Phospholipase A2 Enzymes in Cell Biology -- 20. Polypeptides and Proteins Active in the Coagulation Process -- Guide to Solutions -- Guide to Protocols -- Troubleshooting Guide

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