

Site-Selective Neurotoxicity

Edited by
**David S. Lester, William Slikker Jr.
and
Philip Lazarovici**



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Site Selective Neurotoxicity

Albert A Gayle



Site Selective Neurotoxicity:

Site-Selective Neurotoxicity David S Lester, William Slikker Jr, Philip Lazarovici, 2002-02-07 This unique volume provides interdisciplinary coverage of the mechanistic perspective of neurotoxicity that focuses on the site of action of known neurotoxins. It provides the reader with an insight into the common characteristics of neurotoxin action on the nervous system and examines sites of action at three levels of complexity: molecular, cellular, and systemic. **Neurotoxicology** G. Jean Harry, Hugh A. Tilson, 2016-04-19 This new edition presents an integrated approach to neurotoxicology: the study of organisms' responses to changes in their environment and how interruption of the flow of information by chemical exposure causes a wide range of effects from learning deficits, sensory disturbances in the extremities, and muscle weakness to seizures and signs similar to neurodegenerative disorders such as Parkinson's or Alzheimer's disease. It is an essential resource for understanding the sites and mechanisms of neurotoxicity for formulating testable hypotheses about the effects of neurotoxicants and for improving the risk assessment process.

Chimeric Toxins Haya Lorberboum-Galski, Philip Lazarovici, 2002-05-30 Bacteria and plants produce powerful toxins that can cause a variety of diseases, some of which are lethal for many animal species. The mechanisms of action are common to many of these toxins and represent general pathways for the interaction of a number of biomolecules with target cells, such as binding to specific surface receptors, internalization, and cell death. **Pore-forming Peptides and Protein Toxins** Gianfranco Menestrina, M. Dalla Serra, 2003-01-30 Pore-forming proteins and peptides play a central role in bacterial pathogenesis, the immune response, venomous attack, and innate immunity. *Pore-forming Peptides and Protein Toxins* describes how natural and synthetic peptides and toxins form pores and ionic channels that cause cell membrane collapse and cell death. Written by researchers from around the world, it discusses such topics as the channel-forming properties of *Helicobacter pylori* and the role of amyloid peptide channels in the development of amyloid diseases. This text provides a multidisciplinary approach to understanding the basic principles and cellular mechanisms of the actions of toxins and their potential use as research tools.

The Handbook of Biomarkers Kewal K. Jain, 2010-02-06 Of the thousands of biomarkers that are currently being discovered, relatively few are being validated for further applications, and the potential of a biomarker can be quite difficult to evaluate. To aid in this imperative research, Dr. Kewal K. Jain's *Handbook of Biomarkers* thoroughly describes many different types of biomarkers and their discovery using various omics technologies such as proteomics and metabolomics, along with the background information needed for the evaluation of biomarkers as well as the essential procedures for their validation and use in clinical trials. With biomarkers described first according to technologies and then according to various diseases, this detailed book features the key correlations between diseases and classifications of biomarkers, which provides the reader with a guide to sort out current and future biomarkers. Comprehensive and cutting edge, *The Handbook of Biomarkers* serves as a vital guide to furthering our understanding of biomarkers, which, by facilitating the combination of therapeutics with diagnostics, promise to play an important role in the development of personalized

medicine one of the most important emerging trends in healthcare today **Acute Exposure Guideline Levels for Selected Airborne Chemicals** National Research Council, Division on Engineering and Physical Sciences, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee on Acute Exposure Guideline Levels, 2003-06-15 This report reviews documents on acute exposure guideline levels AEGLs for nerve agents GA tabun GB sarin GD soman GD and VX sulfur mustard diborane and methyl isocyanate The documents were developed by the National Advisory Committee on Acute Exposure Guideline Levels for Hazardous Chemicals NAC The subcommittee concludes that the AEGLs developed in those documents are scientifically valid conclusions based on data reviewed by NAC and are consistent with the NRC reports on developing acute exposure guideline levels *Catecholamines: Bridging Basic Science with Clinical Medicine* , 1997-10-20 This volume in *Advances in Pharmacology* focuses on all aspects of catecholamine research from very basic to medical It is broad based and covers many areas within physiology and medicine Applications of Biotechnology in Neurology Kewal K. Jain, 2013-01-05 Culling together excerpts from a wide range of writings by Dr Kewal K Jain on biotechnology topics as they relate to disorders of the nervous system *Applications of Biotechnology in Neurology* covers a variety of applications for those working in life sciences and the pharmaceutical sciences particularly those developing diagnostics and therapeutics for the nervous system This detailed volume delves into areas such as neurobiotechnology like neurogenomics and neuroproteomics molecular diagnostics various methods of improving systemic administration of drugs for targeted delivery to the nervous system including the use of nanobiotechnology biotechnology based strategies and products for neuroprotection as well as chapters on neurosurgery and personalized neurology Thorough cutting edge and thoughtfully organized *Applications of Biotechnology in Neurology* serves as an ideal guide supplemented by 75 tables and 16 figures as well as numerous references from recent literature on this topic which are appended to each chapter

Molecular, Clinical and Environmental Toxicology Andreas Luch, 2009-04-03 *Molecular Toxicology* is the first volume of a three volume set *Molecular Clinical and Environmental Toxicology* that offers a comprehensive and in depth response to the increasing importance and abundance of chemicals in daily life By providing intriguing insights far down to the molecular level this work covers the entire range of modern toxicology with special emphasis on recent developments and achievements It is written for students and professionals in medicine science public health and engineering who are demanding reliable information on toxic or potentially harmful agents and their adverse effects on the human body

Mitochondrial Inhibitors and Neurodegenerative Disorders Paul R. Sanberg, Hitoo Nishino, Cesario V. Borlongan, 1999-10-01 Mitochondria have long been the Rodney Dangerfield of cellular organelles Believed to be the remnants of bacterial infection of eukaryotic cells eons ago the mitochondrion evolved a symbiotic relationship in which it dutifully served as the efficient source of ATP for cell function The extraordinary dependence of cells on the energy provided by mitochondrial oxidative metabolism of glucose especially through critical organs such as the heart and brain is underlined

by the fatal consequences of toxins that interfere with the mitochondrial electron transport system. Consistent with their ancestry, the mitochondria have their own DNA that encodes many but not all of their proteins. The mitochondria and their genes come from the mother via the ovum since sperm do not possess mitochondria. This extranuclear form of inheritance, derived exclusively from the female side, has proven to be a powerful tool for tracing the evolution by the number of base substitutions in mtDNA. That mitochondrial gene mutations might be a source of human disease became evident a decade ago with the characterization of a group of multisystem disorders typically involving the nervous system which are transmitted from mother to child. Specific point mutations in mtDNA have been associated with the different syndromes.

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