

Methods in Pharmacology
and Toxicology

Springer Protocols

Perpetua M. Muganda *Editor*

Apoptosis Methods in Toxicology

 Humana Press

Apoptosis In Toxicology

Scott C. Dulebohn



Apoptosis In Toxicology:

Apoptosis in Toxicology R. J. Roberts, 1999-12-02 Apoptosis in Toxicology is the first book to focus on the molecular regulation of apoptosis with particular emphasis on toxicant action Cell survival signalling and its perturbation is addressed at the genetic and biochemical level including key survival and death genes survival signalling commitment to apoptosis and recruitment of the initiator

Apoptosis Methods in Pharmacology and Toxicology Myrtle A. Davis, 2007-10-26 Dr Myrtle A Davis has assembled a panel of cutting edge scientists to describe their best methods for detecting illuminating and quantifying apoptotic mechanisms in a way that is useful for the design of toxicology and pharmacology studies These state of the art techniques include flow cytometric fluorometric and laser scanning methods for quantifying and characterizing apoptosis as well as protocols for the use of DNA microarray technology high throughput screens and ELISA

Immunocytochemical methods for measuring biochemical and molecular endpoints in tissue sections will be highly useful for those carrying out studies in whole animal models as opposed to cell culture systems

Apoptosis in Toxicology Ruth A. Roberts, 1999 The first book to focus on the molecular regulation of apoptosis with particular emphasis on toxicant action A timely volume written by leading authorities in their respective fields Will have broad appeal

Comprehensive Toxicology, 2017-12-01 Comprehensive Toxicology Third Edition Fifteen Volume Set discusses chemical effects on biological systems with a focus on understanding the mechanisms by which chemicals induce adverse health effects Organized by organ system this comprehensive reference work addresses the toxicological effects of chemicals on the immune system the hematopoietic system cardiovascular system respiratory system hepatic toxicology renal toxicology gastrointestinal toxicology reproductive and endocrine toxicology neuro and behavioral toxicology developmental toxicology and carcinogenesis also including critical sections that cover the general principles of toxicology cellular and molecular toxicology biotransformation and toxicology testing and evaluation Each section is examined in state of the art chapters written by domain experts providing key information to support the investigations of researchers across the medical veterinary food environment and chemical research industries and national and international regulatory agencies Thoroughly revised and expanded to 15 volumes that include the latest advances in research and uniquely organized by organ system for ease of reference and diagnosis this new edition is an essential reference for researchers of toxicology Organized to cover both the fundamental principles of toxicology and unique aspects of major organ systems Thoroughly revised to include the latest advances in the toxicological effects of chemicals on the immune system Features additional coverage throughout and a new volume on toxicology of the hematopoietic system Presents in depth comprehensive coverage from an international author base of domain experts

Apoptosis Methods in Toxicology Perpetua M. Muganda, 2016

Hayes' Principles and Methods of Toxicology A. Wallace Hayes, Tetyana Kobets, 2023-07-03 Hayes Principles and Methods of Toxicology has long been established as a reliable and informative reference for the concepts methodologies and assessments integral to toxicology The new edition

contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field. **Key Features** The comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators, students, and professionals. Questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered. All chapters have been updated, and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences. New topics in this edition include Safety Assessment of Cosmetics and Personal Care Products, The Importance of the Dose Rate Response, Novel Approaches and Alternative Models, Epigenetic Toxicology, and an Expanded Glossary. The volume is divided into 4 major sections addressing fundamental principles of toxicology: Section I Principles of Toxicology, major classes of established chemical hazards; Section II Agents, current methods used for the assessment of various endpoints indicative of chemical toxicity; Section III Methods, as well as toxicology of specific target systems and organs; Section IV Organ and System Specific Toxicology. This volume will be a valuable tool for the audience that wishes to broaden their understanding of hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment.

Cellular and Molecular Toxicology J.P. Vanden Heuvel, W.F. Greenlee, G.H. Perdew, William B. Mattes, 2002-02-14. Volume 14 in the series Comprehensive Toxicology extends and complements the previously published 13 volume set. This volume will be available separately. Toxicology is the study of the nature and actions of chemicals on biological systems. In more primitive times it really was the study of poisons. However, in the early 1500s it was apparent to Paracelsus that the dose differentiates a poison and a remedy. Clearly the two most important tenets of toxicology were established during that time: The level of exposure, dose, and the duration of exposure time will determine the degree and nature of a toxicological response. Since that time the discipline of toxicology has made major advances in identifying and characterizing toxicants. The growth of toxicology as a scientific discipline has been driven to a large extent by the use of extremely powerful molecular and cell biology techniques. The overall aim of this volume is to demonstrate how these advances are being used to elucidate causal pathways or linkages for potential adverse health consequences of human exposure to environmental chemicals or radiation. A unique feature of this volume is its illustration of how carefully designed studies of the molecular mechanisms of chemical action provide not only understanding of the potential toxicity of the chemical under investigation but also new insights into the functioning of the biological system used as an experimental model. Each chapter contains a listing of major peer-reviewed articles and reviews and useful web sites. In addition, each chapter contains a broad introductory section that outlines the subsequent sections. These Introductory and Overview sections are designed to be stand-alone chapters and may be packaged as a textbook in graduate-level courses.

Casarett & Doull's Toxicology Curtis D. Klaassen, 2007-12-11. The most complete, trusted reference text covering the full span of medical toxicology. Market: Students, toxicologists, and pharmacologists. Focuses on the principles, concepts, and

modes of thought that are the foundation of the discipline New to this edition updated throughout to reflect new understanding of cell death and drug metabolism new content on chemical terrorism many new contributors

Neurotoxicology Jean Harry G., Hugh A. Tilson, 1999-07-22 This second edition of Neurotoxicology is valuable for scientists in government and industry who are responsible for public health and for the safe and efficient use of chemicals This integrated approach to neurotoxicology will aid in the understanding of the sites and mechanisms of neurotoxicity stimulate the formulation of testable hypotheses about how chemicals affect the nervous system and help improve the risk assessment process This edition focuses primarily on the neurobiological basis underlying neurotoxic sites and modes of action The contents include molecular biological and in vitro approaches potential cellular and molecular sites involving neuron glia interactions axonal transport ion channels metabolic influences on neurotoxicity role of free radical formation in neurotoxicity interaction between chemicals and trophic factors endocrine disruptors apoptosis in neurotoxicity in vivo brain imaging advances in measuring cognitive function advances in developing quantitative models for neurotoxicology risk assessment

Handbook of Developmental Neurotoxicology William Slikker Jr., Merle G. Paule, Cheng Wang, 2018-01-04 Handbook of Developmental Neurotoxicology Second Edition provides a comprehensive view of the fundamental aspects of neurodevelopment the pathways and agents that affect them relevant clinical syndromes and risk assessment procedures for developmental neurotoxicants The editors and chapter authors are internationally recognized experts whose collaboration heralds a remarkable advance in the field bridging developmental neuroscience with the principles of neurotoxicology The book features eight new chapters with newly recruited authors making it an essential text for students and professionals in toxicology neurotoxicology developmental biology pharmacology and neuroscience Presents a comprehensive up to date resource on developmental neurotoxicology with updated chapters from the first edition Contains new chapters that focus on subjects recent to the field Includes well illustrated material with diagrams charts and tables Contains compelling case studies and chapters written by world experts

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