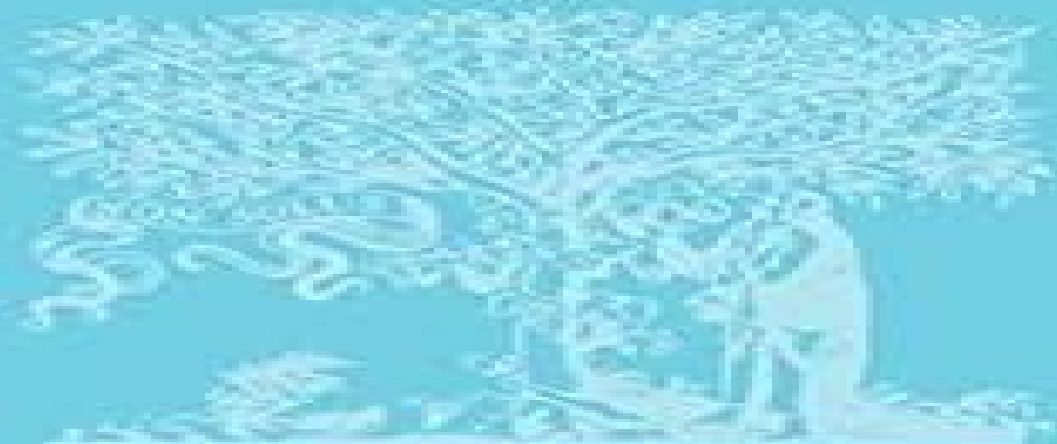


ADVANCES IN CELL AGING AND GERONTOLOGY

Programmed Cell Death Volume I

Cellular and Molecular
Mechanisms

Mark P. Mattson, Steven Estus
and V.M. Rangnekar
editors



Series editor: Mark P. Mattson,
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withdrawal or increased oxidative stress to cell death. Importantly, this volume also covers signaling mechanisms designed to prevent apoptosis. Such anti-apoptotic signaling cascades involve neurotrophic factors and stress response pathways.

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Molecular Mechanisms of Programmed Cell Death Yufang Shi, John A. Cidlowski, David W. Scott, Jia-Rui Wu, Yun Bo Shi, 2013-06-29. The 2002 Nobel Prize in Physiology or Medicine was awarded to Sydney Brenner, H. Robert Horvitz, and John E. Sulston for their seminal discoveries concerning genetic regulation of organ development and programmed cell death. This clearly marked the prime importance of understanding the molecular mechanisms controlling cell death. The 1st International Symposium on Programmed Cell Death was held in the Shanghai Science Center of the Chinese Academy of Sciences on September 8-12, 1996. A number of key issues in apoptosis were discussed at the meeting and progress in major areas of apoptosis research was summarized by expert participants at the meeting and published by Plenum Publishing Corporation as a book entitled *Programmed Cell Death*. In the last six years, we have witnessed a real explosion in our knowledge on how cells undergo apoptosis, thereby participating in various developmental and pathophysiological processes. At this ever-exciting time, we organized the 2nd International Symposium on Programmed Cell Death.

Biomedical Index to PHS-supported Research, 1988

Comparative Diagnostic Pharmacology C.P. Coyne, 2008-01-09. *Comparative Diagnostic Pharmacology: Clinical and Research Applications in Living System Models* is the first evidence-based reference text devoted exclusively to the subject of applying pharmaceutical and biopharmaceutical agents as diagnostic probes in clinical medicine and investigative research. This unique and groundbreaking book is a versatile guide for clinicians and researchers interested in using pharmacologic agents to diagnose disease, assess physiological processes, identify the appropriateness of a therapeutic agent, determine appropriate dosing for therapeutic use. Extensively referenced and organized by major body systems, individual topics are listed in an evidence-based format according to specific disease processes or physiological processes of interest. Each entry also includes information on the mechanism of action, administration, and diagnostic interpretation. Descriptions have been provided for the application of diagnostic pharmaceuticals to assess a wide spectrum of diseases and physiological processes relevant to the fields of veterinary and human medicine. *Comparative Diagnostic Pharmacology* is useful not merely for pharmaceutical-oriented research investigations but it will also prove invaluable for the monitoring and evaluation of physiological responses and disease processes in animal models.

Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen, 1996

Post-Genomic Cardiology José Marín-García, 2011-04-28. Recent advances in molecular and cellular biology have markedly changed our understanding of the heart, and this is having tremendous ramifications for the clinician. This unique reference offers a comprehensive and critical

evaluation of this contribution in the field of cardiovascular molecular medicine providing the reader with a sense of new directions in which molecular medicine might be applied It begins with a detailed primer that makes readily accessible recent molecular genetic and cellular techniques Rounding out the coverage of this exciting field are critical and comprehensive discussions on the use of molecular genetic and cellular techniques used to identify the etiology and pathophysiology of specific cardiac diseases Discusses diagnostic and therapeutic options available not only in the adult and aging individuals but also in infants children Numerous illustrations and flow charts Explains cutting edge molecular techniques including analysis of mitochondria their role in cardiac dysfunction and updated analysis of Cardioprotection and Metabolic Syndrome Presentation of recent translational studies for the treatment of cardiovascular diseases is included e g gene therapy pharmacological treatments and stem cell transplantation *RNA modification and non-coding RNAs in human disease* Jing Zhang,Jingmin Ou,Tao Zeng,Xiang Zhang,Song Zhao,Jinshui Zhu,2023-04-14 *Microbial mechanisms of tolerance to weak acids: an overview* Nuno Pereira Mira,Miguel Cacho Teixeira,2014-11-03 Carboxylic acids are ubiquitous molecules found in microbial metabolic pathways and that have been explored for a wide array of applications including food preservation e g acetic propionic benzoic and sorbic acids chemotherapy e g the analgesic acetylsalicylic acid the immunosuppressor mycophenolic acid or the antimalarial drugs artesunic and artemisinic acids or agriculture e g the herbicides 2 4 dichlorophenoxyacetic acid This Research Topic contributes to the understanding of the molecular mechanisms underlying adaptation to weak acid stress in microbes a knowledge base that impacts the fields of Medicine Health Food Safety and the Environment **Handbook of Cell Signaling** Ralph A. Bradshaw,Edward A. Dennis,2004 The Handbook of Cell Signaling is a comprehensive work covering all aspects of intracellular signal processing including extra intracellular membrane receptors signal transduction gene expression translation and cellular organotypic signal responses The subject matter has been divided into five main parts each of which is headed by a recognized expert in the field Initiation Extracellular and Membrane Events Transmission Effectors and Cytosolic Events Nuclear Responses Gene Expression and Translation Events in Intracellular Compartments Cell Cell and Cell Matrix Interactions Covered in extensive detail these areas will appeal to a broad cross disciplinary audience interested in the structure biochemistry molecular biology and pathology of cellular effectors Tabular and well illustrated the Handbook will serve as an in depth reference for this complex and evolving field Tabular and well illustrated the Handbook will serve as an in depth reference for this complex and evolving field Contains approximately 470 articles Provides well organized sections on each essential area in signaling Includes discussion on everything from ligand receptor interactions to organ organism responses Extremely user friendly Environmental Health Perspectives ,1997 **Failure of Apoptosis and Cancer Metastasis** Gennadi V. Glinsky,1998-11-13 This book summarizes recent reports on adhesion dependent regulation of apoptosis The author discusses data indicating that highly metastatic cancer cells exhibit a superior survival ability and resistance to apoptosis

induced by diverse external signals He also shows that increased survival of metastatic cancer cells compared to nonmetastatic or poorly metastatic cells is associated with their enhanced galectin mediated homotypic aggregation and dysfunction of adhesion dependent regulation of apoptosis Profound deficiency of two major apoptosis execution mechanisms has been identified as a main characteristic of apoptosis failure in metastatic cancer cells *Peterson's Guide to Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work* 1997 Peterson's,1996-12-15 This guide contains listings for the most popular professions covering over 13 000 programs in advertising allied health business dentistry education health administration human resources development law medicine nursing optometry pharmacy podiatry public health social work veterinary medicine and more **Apoptosis and Senescence in Vertebrate Development** Wolfgang Knabe,Marta Magarinos,Stefan Washausen,2022-02-14 **Medical Research Council Handbook** Medical Research Council (Great Britain),1991 Continues the Reference section included in previous annual reports and gives details of the activities of Council establishments and of the other forms of research sponsored by the Council **Science & Culture** ,2003 **Aging and Cellular Defense Mechanisms** Claudio Franceschi,1992 This volume shows how defence mechanisms such as DNA repair production of heat shock and other stress proteins enzymatic and non enzymatic antioxidant defence systems and poly ADP ribose polymerase activation constitute an integrated network of critical importance for the aging process There is an emphasis on growth factor deprivation and programmed cell death and on the nervous and immune systems in the framework of a molecular biology approach **Society for Neuroscience Abstracts** Society for Neuroscience. Meeting,2001 **Physiology of the Heart** Arnold M. Katz,2001 The Third Edition of this classic cardiac physiology text emphasizes the interrelationships of basic processes among cells cardiac muscle function and the biophysics of contractile and electrical behavior This edition of the critically acclaimed overview of cardiac function in health and disease has been revised to incorporate significant new concepts expanded chapters on the ischemic heart and heart failure and a revised illustration program This book is a critical resource for cardiac physiology students teachers clinicians and investigators Folia Biologica ,2005

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