

METHODS IN MOLECULAR BIOLOGY™

Volume 282

Apoptosis Methods and Protocols

Edited by

Hugh J. M. Brady

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Shaying Zhao, Marvin Stodolsky



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Apoptosis Methods and Protocols Hugh J. M. Brady, 2008-02-05 The most fundamental question facing each and every cell within an organism is to survive or to die Cell death is required for normal function some estimates suggest that as many as one million cells undergo cell death every second in the adult human body Almost all cells undergoing physiological or programmed cell death independent of cell type manifest a stereotypic pattern of morphological changes termed apoptosis Typically apoptotic cells display shrinkage membrane blebbing chromatin condensation and nuclear fragmentation The integrity of the cell membrane is not lost during apoptosis and so avoids eliciting the inflammatory response that would have been caused by the spillage of the cell's contents This is quite in contrast to the loss of cell contents typical of necrosis The caspases the family of intracellular cysteine proteases associated with apoptosis are responsible for the stereotypical morphological changes Caspases cleave various substrate proteins that act on DNA fragmentation nuclear envelope integrity the cytoskeleton and cell volume regulation Apoptotic cells are cleared in vivo by the process of phagocytosis in which specific phagocytes move to the site of apoptosis engulf the dying cells and digest them Apoptosis has a central role in many physiological processes for example in the immune system Autoreactive cells are deleted via apoptosis to prevent autoimmunity At the end of an immune response activated lymphocytes are removed to maintain homeostasis within the immune system

Apoptosis and Cancer Hugo Barcenilla, David Diaz, 2022-09-10 This volume discusses methods used in the fields of molecular and cellular biology for detecting and studying cell death especially in cancer and cancer therapy Chapters in this book cover topics such as non destructive real time Annexin V apoptosis assay assessment of the immune response to tumor cell apoptosis and efferocytosis mass cytometry assessment of cell phenotypes and signaling states in human whole blood cell cycle analysis of ER stress and autophagy and simultaneous detection of inflammasome activation and membrane damage during pyroptosis Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and practical

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Einar M. Sigurdsson, 2008-02-02 A proven collection of readily reproducible techniques for studying amyloid proteins and their involvement in the etiology pathogenesis diagnosis and therapy of amyloid diseases The contributors provide methods for the preparation of amyloid and its precursors oligomers and protofibrils in vitro assays and analytical techniques for their study and cell culture models and assays for the production of amyloid proteins Additional chapters present readily reproducible techniques for amyloid extraction from tissue its detection in vitro and in vivo as well as nontransgenic methods for developing amyloid mouse models The protocols follow the successful Methods in Molecular Biology™ series format each offering step by step laboratory instructions an introduction outlining the principle behind the technique lists of the

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Cellular and Molecular Methods in Neuroscience Research Adalberto Merighi, Giorgio Carmignoto, 2007-12-14 There are numerous books on cellular and molecular protocols for general use in cell biology but very few are exclusively devoted to neurobiology This book fills this gap and explains in a clear and consistent manner some of the more commonly used protocols in neuroscience research Each chapter is written by either the person who invented the procedure or an expert in the field The format is uniform Overview Background Protocols and results and discussion Each protocol begins with the principle of the technique studies in cell culture materials and reagents and lastly step by step outline of the procedure itself This highly practical book is also well illustrated with 17 four color plates to make the concepts and procedures easy to understand and perform *Advanced Cell and Molecular Techniques* Karuppusamy Arunachalam, Puthanpura Sasidharan

Sreeja, 2025-04-23 This detailed volume explores laboratory protocols and methodologies for studying cell cultures genetic analysis and various biochemical assays The chapters within this book cover a wide range of techniques from basic cell culture methods to more specialized assays used in the study of genotoxicity apoptosis and gene expression not only relevant to academic researchers but also to professionals in the pharmaceutical biotechnological and clinical fields Written for the Springer Protocols Handbooks series each protocol has been carefully compiled to provide step by step instructions ensuring clarity and reproducibility Authoritative and practical *Advanced Cell and Molecular Techniques Protocols for In Vitro and In Vivo Studies* serves as both a hands on guide and a source of inspiration for future research as the fields of molecular biology and toxicology continue to evolve Programmed Cell Death: Methods and Protocols Hamsa Puthalakath, Christine J.

Hawkins, 2018-05-07 *Biochemicals and Reagents*, Kr̥etika chronika Andreas G. Kalokairinos, 1963 Bioinformatics Jonathan M. Keith, 2008-05-22 In this book leading researchers in the field of Bioinformatics provide a selection of the most useful and widely applicable methods able to be applied as is or with minor variations to many specific problems Over 80 authors from around the globe contribute to the two volumes including many leading experts in their respective subjects They encompass topics from across the diverse field of bioinformatics through its broad scope combining to provide an inter disciplinary collaboration involving biologists biochemists physicists mathematicians statisticians and computer scientists

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The Canadian Journal of Cardiology, 1984* 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

In Vivo, 2004

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