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Germline Stem Cells

Second Edition

 Humana Press

Germline Stem Cells Methods In Molecular Biology

Emre Seli, Ashok Agarwal



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Germline Stem Cells Michael Buszczak, 2018-06-14 This second edition provides updated and new chapters on selected genetic molecular biochemical and cell biological techniques Chapter s guide readers through methods and principles on primordial germ cells and germline stem cells however many of these principles can be applied to different types of adult stem cells 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 Authoritative and cutting edge *Germline Stem Cells Second Edition* aims to present the new findings and techniques that have developed since the first edition [Spermatogonial Stem Cells](#) Jon M.

Oatley, Brian P. Hermann, 2023-05-30 This volume explores the latest techniques used in the field of mammalian germ cell biology to study key experimental approaches and perspectives for critical analysis of spermatogonial subsets including the rare spermatogonial stem cells SSCs pool 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 common pitfalls Cutting edge and comprehensive *Spermatogonial Stem Cells Methods and Protocols* is a valuable resource for both new and experienced investigators looking to expand their knowledge in this developing field

Embryonic Stem Cells Michael S. Kallos, 2011-09-15 Embryonic stem cells are one of the key building blocks of the emerging multidisciplinary field of regenerative medicine and discoveries and new technology related to embryonic stem cells are being made at an ever increasing rate This book provides a snapshot of some of the research occurring across a wide range of areas related to embryonic stem cells including new methods tools and technologies new understandings about the molecular biology and pluripotency of these cells as well as new uses for and sources of embryonic stem cells The book will serve as a valuable resource for engineers scientists and clinicians as well as students in a wide range of disciplines

Germline Stem Cells Steven X. Hou, Shree Ram Singh, 2008-03-07 In this

comprehensive and cutting edge book leading experts explore the parameters that define germline stem cells and the mechanisms that regulate the cell behavior in order to better isolate characterize and maintain them The volume begins by providing protocols for germline stem cell identification and regulation in model organisms and concludes with detailed chapters covering current techniques involving in vitro culture and the applications of the cells

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Exocytosis and Endocytosis Andrei I. Ivanov,2008 In this book skilled experts provide the most up to date step by step laboratory protocols for examining molecular machinery and biological functions of exocytosis and endocytosis in vitro and in vivo The book is insightful to both newcomers and seasoned professionals It offers a unique and highly practical guide to versatile laboratory tools developed to study various aspects of intracellular vesicle trafficking in simple model systems and living organisms

[Encyclopedia of Reproduction](#) ,2018-06-29 Encyclopedia of Reproduction Second Edition Six Volume Set comprehensively reviews biology and abnormalities also covering the most common diseases in humans such as prostate and breast cancer as well as normal developmental biology including embryogenesis gestation birth and puberty Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from advanced undergraduate students to research professionals Chapters also explore the latest advances in cloning stem cells endocrinology clinical reproductive medicine and genomics As reproductive health is a fundamental component of an individual s overall health status and a central determinant of quality of life this book provides the most extensive and authoritative reference within the field Provides a one stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics from basic to clinical considerations including evolutionary advances in molecular cellular developmental and clinical sciences Includes multimedia and interactive teaching tools such as downloadable PowerPoint slides video content and interactive elements such as the Virtual Microscope

Stem Cells Handbook Stewart Sell,2003-10-22 The power of stem cells for tissue development regeneration and renewal has been well known by embryologists and developmental biologists for many years Those presently active in research in the stem cell field owe much to previous work by embryologists and cancer researchers

for their insights into what stem cells can do In the last 4 5 years the rapid expansion of the concept of adult tissue stem cells as pluripotent progenitors for various tissues has led to an even greater appreciation of the power of stem cells The demonstration that both embryonic and adult tissue stem cells have the ability to produce progenitor cells for tissue renewal has opened vast possibilities for treatment of congenital deficiency diseases as well as for regeneration of damaged tissues Older concepts of determination leading to loss of potential during differentiation of adult tissues are being replaced by newer ideas that cells with multiple potential exist in different forms in various adult organs and that cells thought to be restricted to differentiation to one cell type may be able to transdifferentiate into other tissue cell types Thus the concept of embryonic rests in adult tissues hypothesized to be the cellular origin of cancer by Durante and Conheim in the 1870s now can be expanded to include survival of pluripotential embryonic like stem cells in adult tissues

The Journal of Experimental Biology, 2009 The SAGE Encyclopedia of Stem Cell Research Eric E. Bouhassira, 2015-06-15 The SAGE Encyclopedia of Stem Cell Research Second Edition is filled with new procedures and exciting medical breakthroughs including executive orders from the Obama administration reversing barriers to research imposed under the Bush administration court rulings impacting NIH funding of research based on human embryonic stem cells edicts by the Papacy and other religious leaders and the first success in cloning human stem cells Stem cell biology is clearly fueling excitement and potential in traditional areas of developmental biology and in the field of regenerative medicine where they are believed to hold much promise in addressing any number of intractable medical conditions This updated second edition encyclopedia will expand on information that was given in the first edition and present more than 270 new and updated articles that explore major topics in ways accessible to nonscientists thus bringing readers up to date with where stem cell biology stands today including new and evolving ethical religious legal social and political perspectives This second edition reference work will serve as a universal resource for all public and academic libraries It is an excellent foundation for anyone who is interested in the subject area of stem cell biology Key Features Reader s Guide Further Readings Cross References Chronology Resource Guide Index A Glossary will elucidate stem cell terminology for the nonscientist Statistics and selected reprints of major journal articles that pertain to milestones achieved in stem cell research Documents from Congressional Hearings on stem cells and cloning Reports to the President s Council on Bioethics and more

Fertility Preservation Emre Seli, Ashok Agarwal, 2011-09-24 A growing majority of women in the western hemisphere have been delaying initiation of childbearing to later in life Consequently more women in their late 30s to early 40s are attempting to get pregnant for the first time than ever before Since the incidence of most cancers increases with age delayed childbearing results in more female cancer survivors interested in fertility preservation In this book the editors provide strategies for fertility preservation in women and men who require gonadotoxic treatment In addition epidemiologic ethical medico legal psychologic and social aspects of fertility preservation are discussed Using a format that combines concise scientific background with practical

methodological information and easy to grasp algorithms the chapters all conform to a uniform structure including a brief abstract keyword glossary step by step protocol of laboratory procedures key issues in commentary and a list of references The result is a unique practical reference guide for reproductive endocrinologists urologists embryologists reproductive scientists and oncologists **Encyclopedia of Tissue Engineering and Regenerative Medicine**, 2019-06-03

Encyclopedia of Tissue Engineering and Regenerative Medicine Three Volume Set provides a comprehensive collection of personal overviews on the latest developments and likely future directions in the field By providing concise expositions on a broad range of topics this encyclopedia is an excellent resource Tissue engineering and regenerative medicine are relatively new fields still in their early stages of development yet they already show great promise This encyclopedia brings together foundational content and hot topics in both disciplines into a comprehensive resource allowing deeper interdisciplinary research and conclusions to be drawn from two increasingly connected areas of biomedicine Provides a one stop resource for access to information written by world leading scholars in the fields of tissue engineering and regenerative medicine Contains multimedia features including hyperlinked references and further readings cross references and diagrams images Represents the most comprehensive and exhaustive product on the market on the topic **RNAi and MicroRNA-Mediated**

Gene Regulation in Stem Cells Baohong Zhang, Edmund J. Stellwag, 2010-08-16 This cutting edge text will be a valuable resource for scientists and aspiring graduate students interested in the intersection of RNAi miRNA and stem cell molecular biology and exciting areas of research such as regenerative medicine and cancer Reproduction in Domestic Ruminants

VII M. C. Lucy, J. L. Pate, M. F. Smith, T. E. Spencer, 2011-02-01 The combined work of eminent scientists in the field this compilation contains the latest information on ruminant nutrition from the eighth annual International Ruminant Reproduction Symposium With discussions on how to improve reproduction by applying nutrition and physiology this collection spotlights the recent advances regarding the ruminant genome and includes chapters about specific animals including the dairy buffalo camel and reindeer *Male Germline Stem Cells: Developmental and Regenerative Potential*

Kyle E. Orwig, Brian P. Hermann, 2010-12-16 Scientists investigating germ cells have over the past 15 years originated discoveries and innovations that give us valuable insights into the mechanisms that regulate not just stem cell function but human development in its widest sense With contributions from some of the leading researchers in the field *Male Germline Stem Cells Developmental and Regenerative Potential* assesses the implications of these discoveries for understanding the fundamental biology of germline stem cells as well as their potential for human stem cell based therapies This monograph covers many of the fundamental issues now being explored by today's generation of stem cell researchers including the field's potential for regenerative medicine Ranging from an assessment of the pluripotency of primordial germ cells and their possible applications in treating testicular cancer to the recovery of once moribund fertilization competent sperm this volume has it all It is a reference point for any scientist involved in related research as well as being a timely summation of what

could prove to be a hugely exciting and very fruitful area of inquiry

Stem Cell Technologies: Basics and Applications Kaushik D. Deb, Satish Tote, 2010-01-20 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Cutting edge coverage of stem cell biology and applications Featuring contributions from leading global experts this authoritative volume addresses all major areas of stem cell biology and their potential therapeutic applications The first part of the book covers embryonic stem cells and contains details on the emerging field of embryonic stem cell based drug screening platforms The second part deals with multipotent adult stem cells from different tissue types and covers unique concepts such as cancer stem cells and tissue engineering based approaches for designing microenvironments for tissue regeneration Eighty pages of inserts with 113 color figures are included in this pioneering work Coverage includes Zebrafish medaka chicken embryonic and mouse embryonic stem cells Derivation of human embryonic stem cells hESCs from blastocysts Treating diabetes with hESCs hESCs as a model system to study human genetics Application of hESCs in drug discovery Adult stem cells for regenerative medicine and cancer therapies Mesenchymal stem cells for neurodegenerative disease therapies Dental pulp hematopoietic and spermatogonial stem cells Epigenetic regulators of stem cell pluripotency Cancer stem cells

Modeling the Psychopathological Dimensions of Schizophrenia Mikhail Pletnikov, John Waddington, 2015-11-05 Modeling the Psychopathological Dimensions of Schizophrenia From Molecules to Behavior is the first book to offer a comprehensive review of the new theoretical clinical and basic research framework that considers psychotic illness as a group of dimensional representations of psychopathology rather than as traditional distinct categorical diagnoses Psychotic illness typified by schizophrenia is a devastating condition increasingly recognized as a disorder of abnormal brain development and dysconnectivity Its complex etiology involves both genetic and environmental factors as well as the interplay among them This book describes the current understanding of the clinical and pathological features of schizophrenia with a particular focus on the evolving conceptualization of schizophrenia and related diagnostic categories of psychotic illness as combinations of dimensional abnormalities It provides an overview of modern strategies for generating cellular and whole animal models of schizophrenia as well as detailed reviews of the specific experimental preparations and paradigms aimed at molecular developmental and brain network mechanisms that are the underlying aspects of abnormal behavior and various aspects of schizophrenia This groundbreaking book is an authoritative overview of the translational impact of emerging clinical insights on basic research approaches in schizophrenia that will advance the reader's understanding of the five major dimensions of psychopathology in schizophrenia and related psychoses and resolve the genetic and neurobiological underpinnings of these dimensions Includes reviews of animal models that capture the most recent insights into the etiology and pathogenetic mechanisms of schizophrenia with an emphasis on the translational potential of these models Contains a series of reviews of recently available cellular models for analysis of signaling pathways and gene expression which

complement behavioral neuroscience research in schizophrenia Edited and authored by leading researchers in the field of schizophrenia and related psychoses **Handbook of Stem Cells** Robert Paul Lanza,2004 Accompanying CD ROM in v 2 has image collections which can be saved in PowerPoint or HTML **Somatic Stem Cells** Shree Ram Singh,2012-05-23

Stem cells are found in almost all organisms from the early stages of development to the end of life There are several types of stem cells and all of them may prove useful for medical research however each of the different types has both promise and limitations Somatic Stem Cells Methods and Protocols presents selected genetic molecular and cellular techniques used in somatic stem cell research and its clinical application Chapters focus on the isolation characterization purity plasticity and clinical uses of somatic stem cells from a variety of human and animal tissues 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 key tips on troubleshooting and avoiding known pitfalls Through and intuitive Somatic Stem Cells Methods and Protocols seeks to provides scientists with the fundamental techniques of stem cell research and its potential application in regenerative medicine

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