

STEM CELLS



Stem Cell Biology

Motonari Kondo



Stem Cell Biology:

Concepts and Applications of Stem Cell Biology Gabriela Rodrigues, Bernard A. J. Roelen, 2020-06-30 This textbook will support graduate students with learning materials rich in the basic concepts of stem cell biology in its most widespread and updated perspective The chapters are conceived in a way for students to understand the meaning of pluripotency the definition of embryonic stem cells and the formation of multicellular structures such as organoids together with the underlying principles of their epigenetic This textbook also discusses adult stem cells and the potential use of these cells in particular neural mesenchymal and several types of muscular cells in biomedical research and clinical applications This textbook represents a vital complement to the text on Essential Current Concepts of Stem Cell Biology also published in the Learning Materials in Biosciences textbook series

Stem Cells Jonathan Slack, 2021-09-23 The topic of stem cells has a high profile in the media We've made important advances in our scientific understanding but despite this the clinical applications of stem cells are still in their infancy and most real stem cell therapy carried out today is some form of bone marrow transplantation At the same time a scandalous spread of unproven stem cell treatments by private clinics represents a serious problem with treatments being offered which are backed by limited scientific rationale and which are at best ineffective and at worst harmful This Very Short Introduction introduces stem cells exploring what they are and what scientists do with them Introducing the different types of stem cells Jonathan Slack explains how they can be used to treat diseases such as retinal degeneration diabetes Parkinson's disease heart disease and spinal trauma He also discusses the important technique of bone marrow transplantation and some other types of current stem cell therapy used for the treatment of blindness and of severe burns Slack warns against fake stem cell treatments and discusses how to distinguish real from fake treatments He also describes the latest scientific progress in the field and looks forward to what we can expect to happen in the next few years Very Short Introductions Brilliant Sharp Inspiring ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Methods in Stem Cell Biology - Part A, 2022-07-08 Methods in Cancer Stem Cell Biology Part A Volume 170 in the Methods in Cell Biology series highlights advances in the field with this new volume presenting interesting chapters on timely topics including Orthotopic brain tumor models derived from glioblastoma stem like cells RNA sequencing in hematopoietic stem cells Generation of inducible pluripotent stem cells from human dermal fibroblasts In vitro preparation of dental pulp stem cell grafts combined with biocompatible scaffolds for tissue engineering Gene expression knockdown in chronic myeloid leukemia stem cells Identification and isolation of slow cycling GSCs Assessment of CD133 EpCAM and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Cell

Biology series Includes the latest information on the topic of Methods in Cancer Stem Cell Biology The Cell Biology of Stem Cells Eran Meshorer, Kathrin Plath, 2011-01-11 Stem cells have been gaining a lot of attention in recent years Their unique potential to self renew and differentiate has turned them into an attractive model for the study of basic biological questions such as cell division replication transcription cell fate decisions and more With embryonic stem ES cells that can generate each cell type in the mammalian body and adult stem cells that are able to give rise to the cells within a given lineage basic questions at different developmental stages can be addressed Importantly both adult and embryonic stem cells provide an excellent tool for cell therapy making stem cell research ever more pertinent to regenerative medicine As the title The Cell Biology of Stem Cells suggests our book deals with multiple aspects of stem cell biology ranging from their basic molecular characteristics to the in vivo stem cell trafficking of adult stem cells and the adult stem cell niche and ends with a visit to regeneration and cell fate reprogramming In the first chapter Early embryonic cell fate decisions in the mouse Amy Ralson and Yojiro Yamanaka describe the mechanisms that support early developmental decisions in the mouse pre implantation embryo and the current understanding of the source of the most immature stem cell types which includes ES cells trophoblast stem TS cells and extraembryonic endoderm stem XEN cells Stem Cell Biology Jitka Ourednick, 2005 Stem cells have generated considerable interest recently in the scientific clinical and public arenas It is essential that we gain a broader understanding of the factors that regulate the biology of stem cells their ability for self renewal differentiation and plasticity as well as the differences between embryonic and adult stem cells To gain a better understanding of how and whether stem cells can be manipulated to replace cells in diseased tissues will depend on gaining a better understanding of their normal developmental properties This volume offers contributions from numerous interdisciplinary areas bridging biotechnology and biomedical sciences The ability to isolate and maintain pluripotent stem cells in culture offers exciting possibilities for replacing damaged or diseased organs and tissues Moreover stem cells will provide opportunities for major advances in our understanding of fundamental developmental processes **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 The Science of Stem Cells Jonathan M. W. Slack,2017-11-17 Introduces all of the essential cell biology and developmental biology background for the study of stem cells This book gives you all the important information you need to become a stem cell scientist It covers the characterization of cells genetic techniques for modifying cells and organisms tissue culture technology transplantation immunology properties of pluripotent and tissue specific stem cells and in particular the relevant aspects of mammalian developmental biology It dispels many misconceptions about stem cells especially that they can be miracle cells that can cure all ills The book puts emphasis on stem cell behavior in its biological context and on how to study it Throughout the approach is simple direct and logical and evidence is given to support conclusions Stem cell biology has huge potential for advancing therapies for many distressing and recalcitrant diseases and its potential will be realized most quickly when as many people as possible have a good grounding in the science of stem cells Content focused on the basic science underpinning stem cell biology Covers techniques of studying cell properties and cell lineage in vivo and in vitro Explains the basics of embryonic development and cell differentiation as well as the essential cell biology processes of signaling gene expression and cell division Includes instructor resources such as further reading and figures for downloading Offers an online supplement summarizing current clinical applications of stem cells Written by a prominent leader in the field The Science of Stem Cells is an ideal course book for advanced undergraduates or graduate students studying stem cell biology regenerative medicine tissue engineering and other topics of science and biology

Essentials of Stem Cell Biology Robert Lanza,John Gearhart,Brigid Hogan,Douglas Melton,Roger Pedersen,E. Donnell Thomas,James A. Thomson,Ian Wilmut,2009-06-05 First developed as an accessible abridgement of the successful Handbook of Stem Cells *Essentials of Stem Cell Biology* serves the needs of the evolving population of scientists researchers practitioners and students that are embracing the latest advances in stem cells Representing the combined effort of seven editors and more than 200 scholars and scientists whose pioneering work has defined our understanding of stem cells this book combines the prerequisites for a general understanding of adult and embryonic stem cells with a presentation by the world s experts of the latest research information about specific organ systems From basic biology mechanisms early development ectoderm mesoderm endoderm methods to application of stem cells to specific human diseases regulation and ethics and patient perspectives no topic in the field of stem cells is left uncovered Selected for inclusion in Doody s Core Titles 2013 an essential collection development tool for health sciences libraries Contributions by Nobel Laureates and

leading international investigators Includes two entirely new chapters devoted exclusively to induced pluripotent stem iPS cells written by the scientists who made the breakthrough Edited by a world renowned author and researcher to present a complete story of stem cells in research in application and as the subject of political debate Presented in full color with glossary highlighted terms and bibliographic entries replacing references **Essentials of Stem Cell Biology** Robert Lanza,Anthony Atala,2013-08-31 First developed as an accessible abridgement of the successful Handbook of Stem Cells Essentials of Stem Cell Biology serves the needs of the evolving population of scientists researchers practitioners and students embracing the latest advances in stem cells Representing the combined effort of 7 editors and more than 200 scholars and scientists whose pioneering work has defined our understanding of stem cells this book combines the prerequisites for a general understanding of adult and embryonic stem cells with a presentation by the world s experts of the latest research information about specific organ systems From basic biology mechanisms early development ectoderm mesoderm endoderm and methods to the application of stem cells to specific human diseases regulation and ethics and patient perspectives no topic in the field of stem cells is left uncovered Contributions by Nobel Laureates and leading international investigators Includes two entirely new chapters devoted exclusively to induced pluripotent stem iPS cells written by the scientists who made the breakthrough Edited by a world renowned author and researcher to present a complete story of stem cells in research in application and as the subject of political debate Presented in full color with a glossary highlighted terms and bibliographic entries replacing references *Biology of Stem Cells and the Molecular Basis of the Stem State* Dov Zipori,2009-09-01 Biology of Stem Cells and the Molecular Basis of the Stem State concentrates upon adult stem cells particularly on mesenchymal cell populations which is the author s area of expertise The text offers the reader a detailed description of the emergence of stem cell research and the dogmas that were created during the first decades of analysis of stem cell properties particularly those of hemopoietic stem cells Biology of Stem Cells and the Molecular Basis of the Stem State also introduces the reader to the commonly accepted notions regarding stem cell biology with an emphasis on an alternative view of stemness i e the stem state In keeping with the popularity of this topic Biology of Stem Cells and the Molecular Basis of the Stem State addresses the major controversies and points of dispute among researchers in the stem cell field Overall Biology of Stem Cells and the Molecular Basis of the Stem State presents a well rounded dialogue about stem cells as it not only concentrates upon the biological elements of stem cell but also addresses the controversy and hype currently enveloping this popular subject **Stem Cells** Ariff Bongso,Eng Hin Lee,2011 Stem cell biology has drawn tremendous interest in recent years as it promises cures for a variety of incurable diseases This book deals with the basic and clinical aspects of stem cell research and involves work on the full spectrum of stem cells isolated today It also covers the conversion of stem cell types into a variety of useful tissues which may be used in the future for transplantation therapy It is thus aimed at undergraduates postgraduates scientists embryologists doctors tissue engineers

and anyone who wishes to gain some insight into stem cell biology This book is important as it is comprehensive and covers all aspects of stem cell biology from basic research to clinical applications It will have 33 chapters written by renowned stem cell scientists worldwide It will be up to date and all the chapters include self explanatory figures color photographs graphics and tables It will be easy to read and give the reader a complete understanding and state of the art of the exciting science and its applications

Stem Cell Biology and Regenerative Medicine Charles Durand,Pierre Charbord,2022-09-01 The study of stem cell biology is under intensive investigation Because stem cells have the unique capability to self renew and differentiate into one or several cell types they play a critical role in development tissue homeostasis and regeneration Stem cells also constitute promising cell candidates for cell and gene therapy The aim of this book is to provide readers and researchers with timely and accurate knowledge on stem cell biology and regenerative medicine This book will cover many topics in the field and is based on conferences given by recognized scientists involved in the international master course on stem cell biology at Sorbonne Universit in Paris

Stem Cell Biology Natasha Rivera,2021-12-07 The cells that can divide in self renewal to produce more of the same type of stem cells and differentiate into other types of cells are known as stem cells There are two broad types of stem cells in mammals embryonic stem cells and adult stem cells The embryonic stem cells are isolated from the inner cell mass of blastocysts in early embryonic development Adult stem cells are found in various tissues in fully developed mammals Stem cells and progenitor cells act as a repair system for the body Embryonic stem cells can differentiate into all the specialized cells in a developing embryo including endoderm ectoderm and mesoderm They also play an important role in maintaining the normal turnover of regenerative organs like intestinal tissues blood and skin The topics covered in this extensive book deal with the core aspects of stem cell biology While understanding the long term perspectives of the topics it makes an effort in highlighting their impact as a modern tool for the growth of the discipline Those with an interest in this field would find this book helpful

Philosophy of Stem Cell Biology M. Fagan,2013-01-21 This examination of stem cell biology from a philosophy of science perspective clarifies the field s central concept the stem cell as well as its aims methods models explanations and evidential challenges Relations to systems biology and clinical medicine are also discussed

Stem Cells Mary Clarke,Jonathan Frampton,2020-07-27 Stem cell science encompassing basic biology to practical application is both vast and diverse A full appreciation of it requires an understanding of cell and molecular biology tissue structure and physiology the practicalities of tissue engineering and bioprocessing and the pathways to clinical implementation including the ethical and regulatory imperatives that our society requires us to address Expectation and debate have been driven by the allure of regenerative medicine using stem cells as a source of replacements for damaged or aged tissues The potential of stem cell application goes far beyond this Highly innovative uses of stem cells are emerging as possible therapies for cancers treating acute damage in conditions such as stroke and myocardial infarction and resolving a whole range of diseases Stem Cells Biology and Application presents the basic concepts underlying the fast moving science of

stem cell biology This textbook is written for an advanced stem cell biology course The target audience includes senior undergraduates first year graduate students and practitioners in molecular biology biology and biomedical engineering Stem Cells provides a comprehensive understanding of these unique cells highlighting key areas of research associated controversies case studies technologies and pioneers in the field **Cell Biology and Translational Medicine, Volume 6** Kursad Turksen,2020-01-09 Much research has focused on the basic cellular and molecular biological aspects of stem cells Much of this research has been fueled by their potential for use in regenerative medicine applications which has in turn spurred growing numbers of translational and clinical studies However more work is needed if the potential is to be realized for improvement of the lives and well being of patients with numerous diseases and conditions This book series Cell Biology and Translational Medicine CBTMED as part of SpringerNature s longstanding and very successful Advances in Experimental Medicine and Biology book series has the goal to accelerate advances by timely information exchange Emerging areas of regenerative medicine and translational aspects of stem cells are covered in each volume Outstanding researchers are recruited to highlight developments and remaining challenges in both the basic research and clinical arenas This current book is the sixth volume of a continuing series *Regenerative Medicine and Stem Cell Biology* Nagwa El-Badri,2020-11-27 This textbook covers the basic aspects of stem cell research and applications in regenerative medicine Each chapter includes a didactic component and a practical section The book offers readers insights into How to identify the basic concepts of stem cell biology and the molecular regulation of pluripotency and stem cell development How to produce induced pluripotent stem cells iPSCs and the basics of transfection The biology of adult stem cells with particular emphasis on mesenchymal stromal cells and hematopoietic stem cells and the basic mechanisms that regulate them How cancer stem cells arise and metastasize and their properties How to develop the skills needed to isolate differentiate and characterize adult stem The clinical significance of stem cell research and the potential problems that need to be overcome Evaluating the use of stem cells for tissue engineering and therapies the amniotic membrane The applications of bio nanotechnology in stem cell research How epigenetic mechanisms including various DNA modifications and histone dynamics are involved in regulating the potentiality and differentiation of stem cells The scientific methods ethical considerations and implications of stem cell research Regenerative Medicine - from Protocol to Patient Gustav Steinhoff,2016-04-19 Regenerative medicine is the main field of groundbreaking medical development and therapy using knowledge from developmental and stem cell biology as well as advanced molecular and cellular techniques This collection of volumes on Regenerative Medicine From Protocol to Patient aims to explain the scientific knowledge and emerging technology as well as the clinical application in different organ systems and diseases International leading experts from all over the world describe the latest scientific and clinical knowledge of the field of regenerative medicine The process of translating science of laboratory protocols into therapies is explained in sections on regulatory ethical and industrial issues This collection is organized into five volumes 1 Biology of

Tissue Regeneration 2 Stem Cell Science and Technology 3 Tissue Engineering Biomaterials and Nanotechnology 4 Regenerative Therapies I and 5 Regenerative Therapies II The textbook gives the student the researcher the health care professional the physician and the patient a complete survey on the current scientific basis therapeutical protocols clinical translation and practiced therapies in regenerative medicine Volume 2 contains sixteen chapters addressing advanced knowledge on Stem Cell Science and Technology addressing basic classification technology cell biology of stemness state and regulatory molecular pathways Mechanisms and technology of cell programming are explained as well as the pathology of cancer cells and dedifferentiation signalling Pluripotent multipotent germline and tissue specific human stem cells are classified and qualified according to their respective biological function or tissue regeneration Leading stem cell scientists from all over the world explain advanced technology latest knowledge and clinical implications of human stem cell science in a unique comprehensive and detailed outline

Essential Current Concepts in Stem Cell Biology Beate

Brand-Saberi,2020-01-03 This textbook describes the biology of different adult stem cell types and outlines the current level of knowledge in the field It clearly explains the basics of hematopoietic mesenchymal and cord blood stem cells and also covers induced pluripotent stem cells Further it includes a chapter on ethical aspects of human stem cell research which promotes critical thinking and responsible handling of the material Based on the international masters program Molecular and Developmental Stem Cell Biology taught at Ruhr University Bochum and Tongji University Shanghai the book is a valuable source for postdocs and researchers working with stems cells and also offers essential insights for physicians and dentists wishing to expand their knowledge This textbook is a valuable complement to Concepts and Applications of Stem Cell Biology also published in the Learning Materials in Biosciences textbook series *Hematopoietic Stem Cell Biology*

Motonari Kondo,2009-12-04 In the summer of 1988 my developmental biology professor announced to the class that hematopoietic stem cells HSCs had finally been purified Somehow I never forgot the professor s words When I started working in Dr Irv Weissman s labo tory at Stanford as a postdoctoral fellow I realized that the findings mentioned by the professor were from Weissman s laboratory and had been published in a 1988 edition of the journal Science It has been over 20 years since the publication of that seminal paper and since then tremendous advances in understanding the biology and maturation of HSCs namely the process of hematopoiesis which includes lymphocyte development have been made These discoveries were made possible in part by advancements in technology For example recent availability of user friendly fluorescence activated cell sorting FACS machines and monoclonal antibodies with a variety of fluorescent labels has allowed more scientists to sort and analyze rare populations in the bone marrow such as HSCs All classes of hematopoietic cells are derived from HSCs Stem cell biology draws enormous attention not only from scientists but also from ordinary people because of the tremendous potential for development of new therapeutic application to diseases that currently lack any type of effective therapy Thus this type of regenerative medicine is a relatively new and attractive field in both basic science and

clinical medicine

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Stem Cell Biology Introduction

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