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Excel HSC Biology Diane Alford, Jennifer Hill, 2008

Biology and Engineering of Stem Cell Niches Ajaykumar

Vishwakarma, Jeffrey M Karp, 2017-03-22 Biology and Engineering of Stem Cell Niches covers a wide spectrum of research and current knowledge on embryonic and adult stem cell niches focusing on the understanding of stem cell niche molecules and signaling mechanisms including cell cell matrix interactions The book comprehensively reviews factors regulating stem cell behavior and the corresponding approaches for understanding the subsequent effect of providing the proper matrix molecules mechanical cues and or chemical cues It encompasses a variety of tools and techniques for developing biomaterials based methods to model synthetic stem cell niches in vivo or to enhance and direct stem cell fate in vitro A final section of the book discusses stem cell niche bioengineering strategies and current advances in each tissue type Includes the importance of Cell Cell and Cell Matrix Interactions in each specific tissue and system Authored and edited by authorities in this emerging and multidisciplinary field Includes valuable links to 5 10 minute YouTube author videos that describe main points

Essentials of Stem Cell Biology Robert Lanza, John Gearhart, Brigid Hogan, Douglas Melton, Roger Pedersen, E. Donnall 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

Stem Cell Microenvironments and Beyond Alexander Birbrair, 2017-12-03 This book discusses the main stem cell niches under distinct pathophysiological conditions The role of tissue microenvironments in stem cell regulation as well as modern methodologies and new techniques for the identification and characterization of stem cell niches are discussed by leading experts in the field Chapters describe the major components of various stem cell microenvironments such as cellular components soluble factors cell cell interactions extra cellular matrix proteins and physical forces Stem Cell Microenvironments and Beyond is part of the highly successful

Advances in Experimental Medicine and Biology series It is essential reading for graduate students and researchers in the field of stem cells or cell biology as well as clinicians Adult Stem Cell Niches Sabine Wislet, 2014-08-01 Tissue specific stem cells have the capacity to self renew and differentiate into several types of functional cells that replenish lost cells throughout an organism's lifetime Studies on stem cells from diverse systems have shown that stem cell function is controlled by extracellular cues from the niche and by intrinsic genetic programs within the stem cell The objectives of this book would be to review the molecular mechanisms that mediate the balanced response of stem cells to the needs of the organisms Likewise niches have also been linked to pathologies by imposing aberrant function on stem cells or other targets Therefore the second objective of this book would be to highlight the molecular dysregulation of niche biology leading to the disease The third objective would be to review the therapeutical targets described within stem cell niches **Hypoxia and the Circulation** Robert Roach, Peter D. Wagner, Peter Hackett, 2008-01-08 The hypoxia volumes will focus on cutting edge research at the interface of hypoxia and biomedicine Hypoxia is a constant threat to the human body and its vital organs throughout life There are many situations in which the threat is heightened in health and disease but mechanisms have evolved to lessen its detrimental effects The International Hypoxia Symposia was founded to enable scientists clinicians physiologists immunologists mountaineers and other interested individuals to share their experiences of the situations associated with oxygen lack and the adaptations that allow us to survive The mission of the International Hypoxia Symposia is to present cutting edge sophisticated research at the very highest levels into the many effects of hypoxia on humans and animals in health and disease **The Liver** Irwin M. Arias, Harvey J. Alter, James L. Boyer, David E. Cohen, David A. Shafritz, Snorri S. Thorgeirsson, Allan W. Wolkoff, 2020-01-20 Bridging the gap between basic scientific advances and the understanding of liver disease the extensively revised new edition of the premier text in the field The latest edition of The Liver Biology and Pathobiology remains a definitive volume in the field of hepatology relating advances in biomedical sciences and engineering to understanding of liver structure function and disease pathology and treatment Contributions from leading researchers examine the cell biology of the liver the pathobiology of liver disease the liver's growth regeneration metabolic functions and more Now in its sixth edition this classic text has been exhaustively revised to reflect new discoveries in biology and their influence on diagnosing managing and preventing liver disease Seventy new chapters including substantial original sections on liver cancer and groundbreaking advances that will have significant impact on hepatology provide comprehensive fully up to date coverage of both the current state and future direction of hepatology Topics include liver RNA structure and function gene editing single cell and single molecule genomic analyses the molecular biology of hepatitis drug interactions and engineered drug design and liver disease mechanisms and therapies Edited by globally recognized experts in the field this authoritative volume Relates molecular physiology to understanding disease pathology and treatment Links the science and pathology of the liver to practical clinical applications Features 16 new

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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

Encyclopedia of Bone Biology ,2020-06-26 Encyclopedia of Bone Biology Three Volume Set covers hot topics from within the rapidly expanding field of bone biology and skeletal research enabling a complete understanding of both bone physiology and its relation to other organs and pathophysiology This encyclopedia will serve as a vital resource for those involved in bone research research in other fields that cross link with bone such as metabolism and immunology and physicians who treat bone diseases 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 and hot topics that have emerged in recent years including the Hematopoietic Niche and Nuclear Receptors In the electronic edition each chapter will include hyperlinked references and further readings as well as cross references to related articles Incorporates perspectives from experts working within the domains of biomedicine including physiology pathobiology pharmacology immunology endocrinology orthopedics and metabolism Provides an authoritative introduction for non specialists and readers from undergraduate level upwards as well as up to date foundational content for those familiar with the field Includes multimedia features cross references and color images videos

Rossi's Principles of Transfusion Medicine Toby L. Simon,Jeffrey McCullough,Edward L. Snyder,Bjarte G. Solheim,Ronald G. Strauss,2016-03-15 Rossi s Principles of Transfusion Medicine ist das Referenzwerk das die Transfusionswissenschaft und medizin am umfassendsten und praxisorientiert behandelt International erstklassige Herausgeber darunter zwei fruhere Presidenten der AABB ein fruherer President des American Board of Pathology und Mitglieder des FDA Blood Products Advisory Committee sowie Beitrage internationaler renommierter Wissenschaftler Umfassendes Referenzwerk und das fuhrende Standardwerk der Transfusionswissenschaften Beschäftigt sich mit derzeit hochaktuellen Themen wie die Nachsorge von Spendern u a Spendenhäufigkeit und Management von Eisenmangel Eisenstatus Patient Blood Management Hamovigilanz Stammzellentherapie und globale Aspekte der Organisation von Transfusions und Transplantationsservices Neue Inhalte zur molekularen Immunhamatologie Begleitende Website mit

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