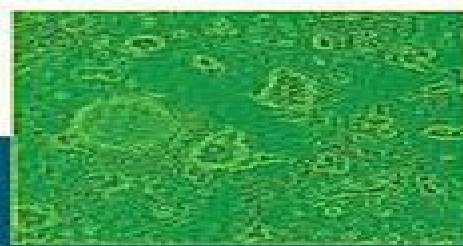


Second Edition

Perinatal Stem Cells



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Perinatal Stem Cells Hardcover 2014 By Anthony Atala editor:

Perinatal Stem Cells Anthony Atala, Sean V. Murphy, 2014-08-28 This comprehensive volume is one of the first books to offer the reader detailed insight into sources of perinatal stem cells their biology and their potential for disease treatment It examines the research and therapeutic applications of perinatal stem cells including the treatment of renal disease hematopoietic regeneration cardiac disease inflammatory disease bone regeneration pulmonary disease and the treatment of spinal cord injury Further the book discusses current progress in the manufacturing banking and clinical translation of perinatal stem cells Through this book readers will gain a thorough understanding of the current pre clinical and clinical applications of perinatal stem cells as well as the efforts to support the transition of perinatal stem cell therapies from laboratories to clinics Perinatal Stem Cells contains thirty two chapters written by internationally recognized leaders in stem cell research It is organized into four sections covering amniotic fluid stem cells placental and placental membrane stem cells umbilical cord stem cells and clinical translation This cohesive structure provides an effective framework for detailed insight into this new frontier Edited by Dr Anthony Atala one of the foremost experts in the field and his co editor Dr Sean V Murphy this volume is a definitive work for stem cell research and its future implications It is a key resource for all stem cell researchers clinicians and government and industry staff working in this dynamic and exciting field

Perinatal Stem Cells Anthony Atala, Kyle J. Cetrulo, Rouzbeh R. Taghizadeh, Curtis L Cetrulo, Sean Murphy, 2018-06-14 Perinatal Stem Cells provides researchers and clinicians with a comprehensive description of the current clinical and pre clinical applications of stem cells derived from perinatal sources such as amniotic fluid placenta and placental membranes the umbilical cord and Wharton's jelly It is compiled by leading experts in the field offering readers detailed insights into sources of perinatal stem cells and their potential for disease treatment Therapeutic applications of perinatal stem cells include the treatment of in utero and pregnancy related diseases cardiac disease liver disease pulmonary disease inflammatory diseases for hematopoietic regeneration and for neural protection after stroke or traumatic brain injury In addition the rapid advance in clinical translation and commercialization of perinatal stem cell therapies is highlighted in a section on Clinical and Industry Perspective which provides insight into the new opportunities and challenges involved in this novel and exciting industry Explores current clinical and pre clinical application of stem cells derived from perinatal sources Offers detailed insight into sources of perinatal stem cells and their potential for disease treatment Discusses progress in the manufacturing banking and clinical translation of perinatal stem cells Edited by a world renowned team to present a complete story of the development and promise of perinatal stem cells

Perinatal Stem Cells Zhong Chao Han, Tsuneo A. Takahashi, Zhibo Han, Zongjin Li, 2019-03-06 This book provides a comprehensive introduction to various types of perinatal stem cells Given their unique regenerative abilities stem cells offer a promising avenue in the treatment of degenerative diseases or injury Currently the limitations of postnatal cell sources and expanding efficiency may limit autologous stem cell therapies Although

embryonic stem cells ESCs and induced pluripotent stem cells iPSCs can be cultured indefinitely ex vivo and can differentiate into three germ layers ethical issues the teratoma formation of ESCs and oncogenic risk of iPSCs are major obstacles to their clinical application More recently perinatal stem cells have been isolated from the umbilical cord Wharton's Jelly placenta amniotic membrane and amniotic fluid which are normally discarded as medical waste This book after describing perinatal stem cells in detail introduces readers to the various types of perinatal stem cells addressing their characterization banking quality control and stability Importantly it also reviews the clinical applications of perinatal stem cells to therapy of diseases Accordingly it offers a valuable resource for clinicians researchers and graduate students alike Perinatal Tissue-Derived Stem Cells Babak Arjmand, 2016-12-01 This book covers several aspects of perinatal tissue derived stem cells from theoretical concepts to clinical applications Topics include functions and different sources immunomodulatory properties translational point of view GMP facility design and manufacturing for clinical translation therapeutic potentials and finally ethical considerations The text provides a brief review of each type of perinatal stem cells and then focuses on their multi or pluripotent properties regenerative capacity and future therapeutic potential in regenerative medicine Additionally the book discusses GMP compliance in stem cell facilities and the manufacture of stem cells for clinical translation The chapters are authored by world renowned experts in the perinatal stem cell field Perinatal Tissue Derived Stem Cells Alternative Sources of Fetal Stem Cells part of Springer's Stem Cell Biology and Regenerative Medicine series is essential reading for basic and clinical scientists clinicians and pharmaceutical experts working or conducting research in the fields of stem cell biology molecular aspects of stem cell research tissue engineering regenerative medicine and cellular therapy Fetal Stem Cells in Regenerative Medicine Dario O. Fauza, Mahmud Bani, 2016-05-02 This book explores the regenerative properties of fetal stem cells from fetal/maternal cell traffic through perinatal stem cells with a discussion of key topics including stem cell banking drug screening in utero stem cell transplantation and ethical considerations The expertly authored chapters also delve into embryonic amniotic membrane and umbilical cord blood stem cells fetal development models fetal cell reprogramming culture methods disease models perinatal gene therapy and more These chapters are grouped into four sections each discussing a separate prenatal stem cell population and providing fascinating historical contexts for our knowledge of these systems Featuring a foreword written by the renowned Dr Joseph Vacanti of the Harvard Stem Cell Institute Fetal Stem Cells in Regenerative Medicine Principles and Translational Strategies is a welcome and timely contribution to the Stem Cell Biology and Regenerative Medicine series It is essential reading for scientists and researchers clinicians and residents and advanced students involved in stem cells regenerative medicine tissue engineering and related disciplines such as embryology *Progenitor and Stem Cell Technologies and Therapies* Anthony Atala, 2012-03-15 Progenitor and stem cells have the ability to renew themselves and change into a variety of specialised types making them ideal materials for therapy and regenerative medicine Progenitor and stem cell technologies and therapies reviews the range of progenitor and stem

cells available and their therapeutic application Part one reviews basic principles for the culture of stem cells before discussing technologies for particular cell types These include human embryonic induced pluripotent amniotic and placental cord and multipotent stem cells Part two discusses wider issues such as intellectual property regulation and commercialisation of stem cell technologies and therapies The final part of the book considers the therapeutic use of stem and progenitor cells Chapters review the use of adipose tissue derived stem cells umbilical cord blood UCB stem cells bone marrow auditory and oral cavity stem cells Other chapters cover the use of stem cells in therapies in various clinical areas including lung cartilage urologic nerve and cardiac repair With its distinguished editor and international team of contributors Progenitor and stem cell technologies and therapies is a standard reference for both those researching in cell and tissue biology and engineering as well as medical practitioners investigating the therapeutic use of this important technology Reviews the range of progenitor and stem cells available and outlines their therapeutic application Examines the basic principles for the culture of stem cells before discussing technologies for particular cell types including human embryonic induced pluripotent amniotic and placental cord and multipotent stem cells Includes a discussion of wider issues such as intellectual property regulation and commercialisation of stem cell technologies and therapies

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