

Beate Brand-Saberi *Editor*

Vertebrate Myogenesis

Stem Cells and Precursors



Springer

Vertebrate Myogenesis Stem Cells And Precursors Results And Problems In Cell Differentiation

Beate Brand-Saberi



Vertebrate Myogenesis Stem Cells And Precursors Results And Problems In Cell Differentiation:

Vertebrate Myogenesis Beate Brand-Saberi, 2014-10-25 This book addresses the differentiation control of skeletal muscle in different locations of the vertebrate body Particular attention is paid to novel regulatory molecules and signals as well as the heterogeneity of origin that have revealed a developmental overlap between skeletal and cardiac muscle Different functional muscle groups are the product of the evolution of the vertebrate classes making a phylogenetic comparison worthwhile for understanding the role of muscle stem cells and precursors in myogenesis New insights into the hierarchy of transcription factors particularly in the context of these different muscle groups have been gained from detailed investigations of the spatio temporal and regulatory relationships derived from mouse and zebrafish genetics and avian microsurgery Importantly epigenetic mechanisms that have surfaced recently in particular the role of MyomiRs are also surveyed With an eye to the human patient encouraging results have been generated that identify parallels between embryonic myogenesis and regenerating myofibers due to common regulatory molecules On the other hand both processes differ considerably in quality and complexity of the processes employed Interestingly the heterogeneity in embryonic sources from which skeletal muscle groups in the vertebrate including the human body take origin is paralleled by differences in their susceptibility to particular muscle dystrophies as well as by the characteristics of the satellite cells involved in regeneration The progress that has been made in the field of muscle stem cell biology with special focus on the satellite cells is outlined in this book by experts in the field The authors review recent insights of the heterogeneous nature of these satellite cells regarding their gene signatures and regeneration potential Furthermore an improved understanding of muscle stem cells seems only possible when we study the impact of the cell environment on efficient stem cell replacement therapies for muscular dystrophies putting embryological findings from different vertebrate classes and stem cell approaches into context

Vertebrate Myogenesis Beate Brand-Saberi, 2002-06-13 The development of vertebrate muscle has long been a major area of research in developmental biology During the last decade novel technical approaches have allowed us to unravel to a large extent the mechanisms underlying muscle formation and myogenesis has become one of the best understood paradigms for cellular differentiation This book concisely summarizes our current knowledge about muscle development in vertebrates from the determination of muscle precursors to terminal differentiation Each chapter has been written by an expert in the field and particular emphasis has been placed on the different developmental and molecular pathways followed by the three types of vertebrate musculature skeletal heart and smooth muscle

Mathematical Foundations of Computational Engineering Peter J. Pahl, Rudolf Damrath, 2001-07-02 Computational engineering is the treatment of engineering tasks with computers It is based on computational mathematics which is presented here in a comprehensive handbook Engineers and scientists who deal with engineering tasks have to handle large amounts of information which must be created and structured in a systematic manner This demands a high level of abstraction and therefore knowledge of the mathematical

foundations From the existing rich repertoire of mathematical theories and methods the fundamentals of engineering computation are selected and presented in a coherent fashion They are brought into a suitable order for specific engineering purposes and their significance for typical applications is shown The relevant definitions notations and theories are presented in a durable form which is independent of the fast development of information and communication technology

Craniofacial Development ,2015-11-27 Craniofacial Development the latest volume of Current Topics in Developmental Biology continues the legacy of this premier serial with quality chapters authored by leaders in the field This volume covers research methods in Craniofacial Development and includes sections on such topics as microRNAs in craniofacial development and epigenetic regulation in craniofacial development Provides a comprehensive book on craniofacial development and tissue regeneration Authored by leading experts in this field Carefully organized to cover an array of topics critical in helping readers learn the most important aspects of craniofacial development and tissue regeneration

Principles of Tissue Engineering Robert Lanza,Robert Langer,Joseph P. Vacanti,Anthony Atala,2020-03-26 Now in its fifth edition Principles of Tissue Engineering has been the definite resource in the field of tissue engineering for more than a decade The fifth edition provides an update on this rapidly progressing field combining the prerequisites for a general understanding of tissue growth and development the tools and theoretical information needed to design tissues and organs as well as a presentation by the world s experts of what is currently known about each specific organ system As in previous editions this book creates a comprehensive work that strikes a balance among the diversity of subjects that are related to tissue engineering including biology chemistry material science and engineering among others while also emphasizing those research areas that are likely to be of clinical value in the future This edition includes greatly expanded focus on stem cells including induced pluripotent stem iPS cells stem cell niches and blood components from stem cells This research has already produced applications in disease modeling toxicity testing drug development and clinical therapies This up to date coverage of stem cell biology and the application of tissue engineering techniques for food production is complemented by a series of new and updated chapters on recent clinical experience in applying tissue engineering as well as a new section on the emerging technologies in the field Organized into twenty three parts covering the basics of tissue growth and development approaches to tissue and organ design and a summary of current knowledge by organ system Introduces a new section and chapters on emerging technologies in the field Full color presentation throughout *Genetics Abstracts* ,1995

Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences (U.S.),2007 The ESC Textbook of Cardiovascular Development José M. Pérez-Pomares,Robert Kelly,2018-07-12 This highly illustrated textbook has been prepared by the Working Group on Development Anatomy and Pathology of the European Society of Cardiology ESC The ESC Textbook of Cardiovascular Development is the authority on cardiovascular development from a perspective of both basic scientists and clinicians The embryonic origin of congenital heart diseases and

their pathology has been analysed in depth Modern concepts pivotal to the understanding of cardiovascular morphogenesis including those still subject to controversy have been highlighted and the content covers the ESC Core Curriculum The textbook will appeal to researchers and clinicians from a wide spectrum of disciplines including molecular and developmental biologists working on mechanisms of heart development in a range of model organisms as well as pathologists morphologists geneticists and cardiologists

Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards ,2008 Stem Cells and Cell Signalling in Skeletal Myogenesis D.A. Sassoon,2002-02-08 Skeletal muscle development is perhaps one of the best understood processes at the molecular cellular and organismal level due in large part to the fact that primary myogenic cells myoblasts will grow and subsequently differentiate into myotubes in culture With the advent of reverse mouse genetics many of the observations gained through the study of myogenic cells in vitro have been directly tested in vivo What has emerged is a complex but cohesive story of how myogenic cells are initially specified in the vertebrate embryo and how muscle fibers ultimately achieve their respective identities i e fast versus slow to perform their function This collection of chapters is focused on these developments The book discusses old and new directions for the skeletal muscle field and points out directions where the field may eventually progress

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