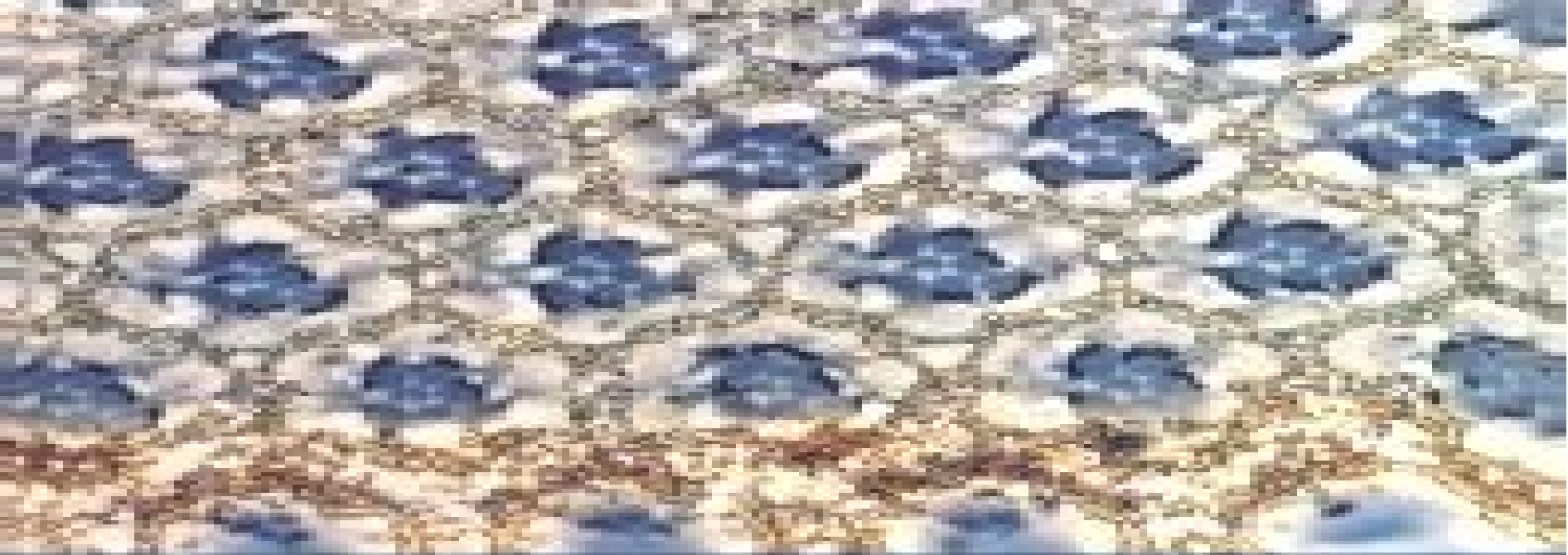




Current Topics in
**Developmental
Biology**

Volume 34



Edited by
Roger A. Pedersen
Gerald P. Schatten

Current Topics In Developmental Biology Volume 39

Ying-Ying Zheng



Current Topics In Developmental Biology Volume 39:

Current Topics in Developmental Biology Roger A. Pederson, 1998 *Current Topics in Developmental Biology*, 1998-03-23 This Series provides a comprehensive survey of the major topics in the field of developmental biology The volumes are valuable to researchers in animal and plant development as well as to students and professionals who want an introduction to cellular and molecular mechanisms of development This year marks a major milestone for the Series as it completes its thirtieth year of publication making it the longest running forum for contemporary issues in developmental biology Signal Transducers and Activators of Transcription (STATs) P. Sehgal, D. E. Levy, T. Hirano, 2013-06-29 The year 2003 marks the tenth anniversary of the first use of the acronym Stat also written STAT in the scientific literature for a family of transcription factors which rapidly transduce cytokine and growth factor elicited signals from the plasma membrane to the cell nucleus thereby activating gene transcription thus signal Transducers and Activators of Transcription From those beginnings the field of STAT transcription factors their related regulatory molecules and their biology has grown exponentially in many different directions In recognition of the rapid growth and broad scope of the STAT transcription factor field today and to celebrate the tenth anniversary of the use of this term in the scientific literature Kluwer Academic Publishers B V requested us to compile a volume on STAT transcription factors that could serve as an overview of this burgeoning area Thus we wanted a volume that would serve as a reference for what is known about STAT proteins and their biology would describe the current state of ongoing research in this broad area and would look toward the future to try to predict the discoveries that lie ahead Our charge was to seek out the very best experts in the field and to coax them to briefly summarize their areas of expertise **Oral Anatomy, Histology and Embryology E-Book** Barry K.B Berkovitz, G.R. Holland, Bernard J. Moxham, 2017-07-11 Now entering its 40th anniversary the fifth edition of Oral Anatomy Histology and Embryology has been thoroughly overhauled updated and augmented to meet the needs of dental students worldwide Now available with new pedagogic features and an enhanced illustration program Oral Anatomy Histology and Embryology 5th edition also comes with a free online program containing a wide selection of MCQs and additional learning exercises to allow readers to test and reinforce their knowledge Written by dentists for dentists authors who know exactly what students need for safe clinical practice Includes comprehensive coverage of the soft tissues of the oral region and skeletal structures of the head including vasculature and innervation Contains topics not found in other titles including tooth eruption morphology and the effects of aging on teeth and associated soft tissues Includes clear discussion of sectional and functional morphology mastication swallowing and speech Addresses physical and chemical properties of the tooth structure enamel dentine pulp and cementum Many chapters include Clinical Considerations which explore pathological findings relating to the topic as well as other areas of importance such as the use of local anaesthesia TMJ disorders and malocclusion Explores bone structure and remodelling including potential bone atrophy following tooth extraction its relevance to orthodontic treatment

and implantology trauma and malignancy Rich with over 1000 images including schematic artworks radiological images electron micrographs cadaveric and clinical photographs all specially selected to make learning and recall as easy as possible Contains a new photography collection and updated artwork program Overviews at the start of each chapter help summarize the topic and put it into wider context Learning Objectives at the end of chapters to help readers focus on essential knowledge requirements Chapters covering functional anatomy enamel alveolar bone the temporomandibular salivary glands amelogenesis and dentinogenesis have been substantially reworked Tooth morphology photographs have been enlarged and new images included for pulp morphology Now comes with a helpful online program containing a selection of MCQs and other online learning exercises which allow the reader to test and reinforce their knowledge **How Crops Grow** Peter R. Day,1969 *Books in Print* ,1994 **Tissue Remodeling and Epithelial Morphogenesis** Thomas Lecuit,2009-09-25 For more than 30 years Current Topics in Developmental Biology has provided a forum for dissemination and discussion of new ideas and thought in developmental biology Bringing together a series of articles on the structural functional and developmental characteristics of epithelials this thematic volume represents a timely and valuable contribution to an exciting and multidisciplinary field of study Because defects in epithelial function and growth control play a major role in human disease cancerous tumors spina bifida cardiac malformations for example this volume will be of particular interest to researchers working in cancer drug design and development and those working in therapeutic areas to treat developmental abnormalities Coverage of current research findings and thought on cell cell and cell extracellular matrix interactions gives researchers a better understanding of the processes of remodeling and morphogenesis which are critical to the development of drugs aimed at disrupting the early formation and proliferation of cancerous tumors Inclusion of chapters that discuss the most contemporary thought on cell polarity and tissue morphogenesis providing researchers with a better understanding of the control of cellular organization and polarity particularly important to researchers who are developing treatments for developmental abnormalities and those working in cancer drug development Use of a variety of animal models allowing researchers to compare and contrast the molecular mechanisms that underlie cell cell and cell extracellular matrix interactions in a variety of research models *The Anatomical Basis of Mouse Development* Matthew H. Kaufman,Jonathan B.L. Bard,1999-03-10 This book is an essential anatomical resource for developmental biologists who need to know about any aspect of mouse developmental anatomy as well as for geneticists using the mouse embryo as a model The book is a companion to Kaufman s The Atlas of Mouse Development and details the developmental anatomy of the early embryo the transitional tissues and all the major organ systems It also provides extensive comparisons with human developmental anatomy both normal and abnormal The book has extensive reference indexes detailing developmental stage criteria The Anatomical Basis of Mouse Development will be a key reference work for anyone who needs to understand developmental anatomy in normal and mutant mice Complements Kaufman s The Atlas of Mouse Development Gives anatomical descriptions

from oogenesis to birth at a level of detail that goes beyond that found in most literature Provides detailed explanations for geneticists and molecular biologists with limited anatomical background to help them understand the emergence of all the major structures in the mouse embryo Contains comprehensive indexes detailing the appearance of over 1000 organs tissues and their components at different stages of mouse embryogenesis Includes comparisons with normal and abnormal human development Contains over 100 clear line diagrams showing mouse developmental anatomy as well as lineage relationships for the major organ systems

Retinoids in Development and Disease ,2025-02-01 Retinoids in Development and Disease Volume 161 in the Current Topics in Developmental Biology series focuses on the role of retinoids during development and disease Topics covered include Retinoids Retinol Binding Protein 2 RBP2 Retinol Binding Protein 4 RBP4 Obesity and Metabolic Disease Early Retinoic Acid Signaling Organizes the Body Axis and Defines Domains for the Forelimb and Eye Rethinking Retinoic Acid Self Regulation A Signaling Robustness Network Approach Meiotic initiation in the fetal ovary without retinoic acid receptors an unforeseen twist Action of retinoic acid on progenitor cells in the testis amongst many other topics Additional sections cover Retinoic acid homeostasis and disease Redefining the roles of endogenously produced retinoic acid in heart development and regeneration lessons from genetic models The Multifaceted Roles of Retinoids in Vision Eye Development and Retinal Degenerative Diseases Essential roles for retinoid signaling in craniofacial development and much more Teaches about the role of retinoids from the germ cell to the adult organism Helps readers discover the normal functions of retinoic acid during embryonic development Provides knowledge on how retinoids continue to function in the adult

Emerging Model Systems in Developmental Biology ,2022-03-23 An ever growing roster of model organisms is a hallmark of 21st century Developmental Biology Emerging model organisms are well suited to asking some fascinating and important questions that cannot be addressed using established model systems And new methods are increasingly facilitating the adoption of new research organisms in laboratories This volume is written by some of the scientists who have played pivotal roles in developing new models or in significantly advancing tools in emerging systems Presents some of the most interesting additions to the core set of model organisms Contains contributions from people who have developed new model systems or advanced tools Includes personal stories about how and why model systems were developed

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