

Ciliary Function In Mammalian Development Volume 85 Current Topics In Developmental Biology

Elucidating the Role of the C. Elegans Nephrocystins in Cilia Dyneins Cilia Cilia Methods in Cilia and Flagella Ciliary and Flagellar Membranes Developmental Biology Inborn Errors of Development Endocrinology - E-Book Research Awards Index Journal of Cell Science Fundamentals of Oral Histology and Physiology ARF Family GTPases Cilia: Model Organisms and Intraflagellar Transport Molecular Kinesis in Cellular Function and Plasticity The Role of GAS11 and the Dynein Regulatory Complex in Vertebrates Heart Development and Regeneration Cilia: Structure and Motility Factors Influencing Mammalian Kidney Development: Implications for Health in Adult Life Cilia: Motors and Regulation Left-Right Asymmetry in Vertebrate Development Schering Symposium on Intrinsic and Extrinsic Factors in Early Mammalian Development The Eye and Its Diseases by 82 International Authorities Molecular Biology of the Cell Cilia and Nervous System Development and Function Ciliary Function in Mammalian Development Encyclopedia of Cell Biology Endocrinology Adult and Pediatric: Diabetes Mellitus and Obesity E-Book Brenner and Rector's The Kidney E-Book Aquatic Mammals General Histology of the Mammal Molecular Cell Biology Mammalian Development Cell Death Schering Symposium on Intrinsic and Extrinsic Factors in Early Mammalian Development, Venice, April 20 to 23, 1970 A Laboratory Manual for Comparative Vertebrate Anatomy Maternal Control of Development in Vertebrates Proceedings of the National Academy of Sciences of the United States of America Nutritional and Metabolic Diseases: New Insights for the Healthcare Professional: 2011 Edition Biogenesis and Function of Primary Cilia in Mammalian Cells

Elucidating the Role of the C. Elegans Nephrocystins in Cilia

Overcome the toughest clinical challenges in nephrology with the new 9th edition of Brenner/Rector's The Kidney! A brand-new editorial team of Drs. Maarten W. Taal, Glenn M. Chertow, Philip A. Marsden, Karl Skorecki, Alan S. L. Yu, and Barry M. Brenner,, together with a diverse list of international contributors bring you the latest knowledge and best practices on every front in nephrology worldwide. Brand-new sections on Global Considerations in Nephrology and Pediatric Nephrology, as well as new chapters on recent clinical trials, cardiovascular and renal risk prediction in chronic kidney disease, identification of genetic causes of kidney disease, and many others, keep you at the forefront of this rapidly growing, ever-changing specialty. Brenner/Rector remains the go-to resource for practicing and training nephrologists and internists who wish to master basic science, pathophysiology, and clinical best practices. Broaden your knowledge base with expert, dependable, comprehensive answers for every stage of your career from the most comprehensive, definitive clinical reference in the field! Prepare for certification or recertification with a review of the basic science that underpins clinical nephrology as well as a comprehensive selection of the most important bibliographical sources in nephrology. Visually

grasp and better understand critical information with the aid of over 700 full-color high-quality photographs as well as carefully chosen figures, algorithms, and tables to illustrate essential concepts, nuances of clinical presentation and technique, and decision making. Get internationally diverse, trusted guidance and perspectives from a team of well-respected global contributors, all of whom are at the top and the cutting edge of your field. A new editorial team headed by Dr. Taal and hand-picked by Dr. Brenner ensures the ongoing adherence to previous standards of excellence. Access information quickly thanks to a new, reorganized format and supplemental figures, tables, additional references, and expanded discussions. Keep current with the rapid development of care and research worldwide. A new section, "Global Considerations", focuses on regions outside Europe and North America. Leading experts from Latin America, Africa, Near and Middle East, Indian Subcontinent, Far East, Oceania and Australia present their expert insights into specific conditions, as well as progress and challenges in the development of the specialty. Improve therapy and outcomes for children with renal disease. New to this edition, "Pediatric Nephrology" addresses renal pathologies that usually present in childhood and covers topics such as Maturation of Kidney Structure and Function; Fluid; Electrolyte and Acid-Base Disorders in Children; Diseases of the Kidney and Urinary Tract in Children; Dialysis in Children; and Kidney Transplantation in Children. Stay up to date with all the latest clinical information including recent clinical trials, genetic causes of kidney disease, and cardiovascular and renal risk prediction in chronic kidney disease.

Dyneins

Along with its companion volume on axonemal dynein-mediated motility, this book provides researchers with a comprehensive and up-to-date source of methods for the analysis cilia and flagella, focusing primarily on approaches that have been devised or significantly extended since the last volume of *Methods in Cell Biology* on this topic (volume 47, 1995). Edited by Stephen M. King and Gregory J. Pazour, the newest installment of this highly acclaimed serial will serve as an essential addition to the study of cilia and flagella. * Covers protocols for cilia and flagella across systems and species * Both classic and state-of-the-art methods readily adaptable across model systems, and designed to last the test of time * Relevant to clinicians interested in respiratory disease, male infertility, and other syndromes who need to learn biochemical, molecular, and genetic approaches to studying cilia, flagella, and related structures

Cilia

Cilia

The development of the cardiovascular system is a rapidly advancing area in biomedical research, now coupled with the

burgeoning field of cardiac regenerative medicine. A lucid understanding of these fields is paramount to reducing human cardiovascular diseases of both fetal and adult origin. Significant progress can now be made through a comprehensive investigation of embryonic development and its genetic control circuitry. Heart Development and Regeneration, written by experts in the field, provides essential information on topics ranging from the evolution and lineage origins of the developing cardiovascular system to cardiac regenerative medicine. A reference for clinicians, medical researchers, students, and teachers, this publication offers broad coverage of the most recent advances. Volume One discusses heart evolution, contributing cell lineages; model systems; cardiac growth; morphology and asymmetry; heart patterning; epicardial, vascular, and lymphatic development; and congenital heart diseases. Volume Two includes chapters on transcription factors and transcriptional control circuits in cardiac development and disease; epigenetic modifiers including microRNAs, genome-wide mutagenesis, imaging, and proteomics approaches; and the theory and practice of stem cells and cardiac regeneration. Authored by world experts in heart development and disease New research on epigenetic modifiers in cardiac development Comprehensive coverage of stem cells and prospects for cardiac regeneration Up-to-date research on transcriptional and proteomic circuits in cardiac disease Full-color, detailed illustrations

Methods in Cilia and Flagella

The scope of the book is to highlight the diverse roles of cilia in human development and disease. Almost all cell types form cilia and although they were first detected about 200 years ago, their significance was unclear. In the past ten years, it has become obvious that cilia have got sensory functions, as well as roles in motility and their mis-formation or the deregulation of the signaling pathways they control has been associated with defective development and human disease. Although research has concentrated on the role of the cilium in each organ, no effort has been made so far to bring all this information together and relate it to the various human diseases. This book aims to gather all the expertise that has been acquired on primary cilia and translate it into a medical and research context that will be of interest to postgraduate students, researchers, medics and scientists.

Ciliary and Flagellar Membranes

Developmental Biology

Focusing on the area of developmental biology, this work is intended for students.

Inborn Errors of Development

Endocrinology - E-Book

Research Awards Index

For the first time experts in the area of signalling research with a focus on the ARF family have contributed to the production of a title devoted to ARF biology. A comprehensive phylogenetic analysis of the ARF family, tables of the ARF GEFs and ARF GAPs, and more than a dozen chapters describing them in detail are provided. The impact of the ARF proteins on widely diverse aspects of cell biology and cell signalling can be clearly seen from the activities described; including membrane traffic, lipid metabolism, receptor desensitization, mouse development, microtubule dynamics, and bacterial pathogenesis. Anyone interested in understanding the complexities of cell signalling and the integration of signalling networks will benefit from this volume.

Journal of Cell Science

"A subject collection from Cold Spring Harbor perspectives in biology."

Fundamentals of Oral Histology and Physiology

Nutritional and Metabolic Diseases: New Insights for the Healthcare Professional: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Nutritional and Metabolic Diseases. The editors have built Nutritional and Metabolic Diseases: New Insights for the Healthcare Professional: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Nutritional and Metabolic Diseases in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Nutritional and Metabolic Diseases: New Insights for the Healthcare Professional: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

ARF Family GTPases

Cilia: Model Organisms and Intraflagellar Transport

The goal of this book is to collect methods and protocols for studying cilia in a wide range of different cell types, so that researchers from many fields of biology can start exploring the role of cilia in their own system. Chapters are written by experts in the field Cutting-edge material

Molecular Kinesis in Cellular Function and Plasticity

Externally the vertebrate body plan presents a bilateral symmetry in relation to the midline. However, inside the body the distribution of the visceral organs follows a very particular pattern that is not symmetrical in relation to the midline. The last 10 years have seen remarkable advances in our understanding of how the internal asymmetries typical of the vertebrate body are established and controlled. The use of different development models has permitted to uncover fascinating ways of creating asymmetry, like the activity of the nodal cilia. A host of studies has also unravelled the involvement of many genes in the left right patterning pathway. Based on this knowledge the genetic basis of human laterality defects are beginning to be revealed. It is a major challenge now to understand how all these genes control left right development as well as the complex set of interactions established between them.

The Role of GAS11 and the Dynein Regulatory Complex in Vertebrates

Heart Development and Regeneration

This new volume of Methods in Enzymology continues the legacy of this premier serial with quality chapters authored by leaders in the field. This volume covers cilia and includes chapters on such topics as methods for studying ciliary polarity in *Xenopus*, analysis of signaling pathways in mammalian spermatozoa, and biochemical and physiological analysis of axonemal dyneins. Continues the legacy of this premier serial with quality chapters authored by leaders in the field Covers cilia Contains chapters on such topics as methods for studying ciliary polarity in *Xenopus*, analysis of signaling pathways in mammalian spermatozoa, and biochemical and physiological analysis of axonemal dyneins

Cilia: Structure and Motility

The Encyclopedia of Cell Biology offers a broad overview of cell biology, offering reputable, foundational content for

researchers and students across the biological and medical sciences. This important work includes 285 articles from domain experts covering every aspect of cell biology, with fully annotated figures, abundant illustrations, videos, and references for further reading. Each entry is built with a layered approach to the content, providing basic information for those new to the area and more detailed material for the more experienced researcher. With authored contributions by experts in the field, the Encyclopedia of Cell Biology provides a fully cross-referenced, one-stop resource for students, researchers, and teaching faculty across the biological and medical sciences. Fully annotated color images and videos for full comprehension of concepts, with layered content for readers from different levels of experience Includes information on cytokinesis, cell biology, cell mechanics, cytoskeleton dynamics, stem cells, prokaryotic cell biology, RNA biology, aging, cell growth, cell Injury, and more In-depth linking to Academic Press/Elsevier content and additional links to outside websites and resources for further reading A one-stop resource for students, researchers, and teaching faculty across the biological and medical sciences

Factors Influencing Mammalian Kidney Development: Implications for Health in Adult Life

This book is a collection of selected and relevant research, concerning the developments within the Cell Death field of study. Each contribution comes as a separate chapter complete in itself but directly related to the books topics and objectives. The target audience comprises scholars and specialists in the field.

Cilia: Motors and Regulation

Left-Right Asymmetry in Vertebrate Development

Eggs of all animals contain mRNAs and proteins that are supplied to or deposited in the egg as it develops during oogenesis. These maternal gene products regulate all aspects of oocyte development, and an embryo fully relies on these maternal gene products for all aspects of its early development, including fertilization, transitions between meiotic and mitotic cell cycles, and activation of its own genome. Given the diverse processes required to produce a developmentally competent egg and embryo, it is not surprising that maternal gene products are not only essential for normal embryonic development but also for fertility. This review provides an overview of fundamental aspects of oocyte and early embryonic development and the interference and genetic approaches that have provided access to maternally regulated aspects of vertebrate development. Some of the pathways and molecules highlighted in this review, in particular, Bmps, Wnts, small GTPases, cytoskeletal components, and cell cycle regulators, are well known and are essential regulators of multiple aspects of animal development, including oogenesis, early embryogenesis, organogenesis, and reproductive fitness of the

adult animal. Specific examples of developmental processes under maternal control and the essential proteins will be explored in each chapter, and where known conserved aspects or divergent roles for these maternal regulators of early vertebrate development will be discussed throughout this review. Table of Contents: Introduction / Oogenesis: From Germline Stem Cells to Germline Cysts / Oocyte Polarity and the Embryonic Axes: The Balbiani Body, an Ancient Oocyte Asymmetry / Preparing Developmentally Competent Eggs / Egg Activation / Blocking Polyspermy / Cleavage/ Mitosis: Going Multicellular / Maternal-Zygotic Transition / Reprogramming: Epigenetic Modifications and Zygotic Genome Activation / Dorsal-Ventral Axis Formation before Zygotic Genome Activation in Zebrafish and Frogs / Maternal TGF- and the Dorsal-Ventral Embryonic Axis / Maternal Control After Zygotic Genome Activation / Compensation by Stable Maternal Proteins / Maternal Contributions to Germline Establishment or Maintenance / Perspective / Acknowledgments / References"

Schering Symposium on Intrinsic and Extrinsic Factors in Early Mammalian Development

In this monograph the authors have emphasized a number of important concepts in mammalian kidney development. Emphasis has been put on methodology so that the reader can understand how certain results or conclusions were reached and what the optimal methods for reliable results to be obtained are. In addition, as well as descriptions of the morphology there is information on the genetic basis of the structural development. In addition much attention has been paid to how nephron number may be altered by changes in the environment of the developing kidney and to the consequences for the remaining nephron gene expression and kidney function when total nephron number is altered. The consequences for the health of the adult, upon the formation of an adult kidney with altered nephron number and (potentially) gene expression, can be quite serious. The epigenetic mechanisms by which such changes can occur are introduced as a very fertile field for future investigation.

The Eye and Its Diseases by 82 International Authorities

Molecular Biology of the Cell

With an accompanying Web site showing more than 100 streaming videos of cell dynamic behavior for best comprehension of material, "Dyneins" is the only reference covering the structure, biology, and application of dynein research to human disease. From bench to bedside, this book offers research on fundamental cellular processes to researchers and clinicians across developmental biology, cell biology, molecular biology, biophysics, biomedicine, genetics, and medicine.

Cilia and Nervous System Development and Function

Cilia are tiny microtubule-based organelles projecting from the plasma membrane of practically all cells in the body. In the past 10 years a flurry of research has indicated a crucial role of this long-neglected organelle in the development and function of the central nervous system. A common theme of these studies is the critical dependency of signal transduction of the Sonic hedgehog, and more recently, Wnt signaling pathways upon cilia to regulate fate decisions and morphogenesis. Both primary and motile cilia also play crucial roles in the function of the nervous system, including the primary processing of sensory information, the control of body mass, and higher functions such as behavior and cognition, serving as "antennae" for neurons to sense and process their environment. In this book we describe the structure and function of cilia and the various tissues throughout the brain and spinal cord that are dependent upon cilia for their proper development and function.

Ciliary Function in Mammalian Development

Fundamentals of Oral Histology and Physiology is a landmark new text streamlining the essentials of histology and physiology into one clinically accessible textbook. Written for predoctoral dental students, the book brings together structure, function, and clinical correlations for maximum retention and ease of use. Assuming a background in basic biologic sciences, this text focuses on the histology and physiology that students need to know to practice dentistry and to understand and evaluate the current literature, without repeating basic information learned in other courses. Fundamentals of Oral Histology and Physiology concentrates on Oral Structures and Features, including Development, Teeth, Tooth and Jaw Support, Mucosal Structure and Function, and Effectors.

Encyclopedia of Cell Biology

Endocrinology Adult and Pediatric: Diabetes Mellitus and Obesity E-Book

Brenner and Rector's The Kidney E-Book

With a Foreword by Reiter R.J. Translated by Forster, S.

Aquatic Mammals

Cilia are highly conserved organelles that serve motile functions, sensory functions, or both. These organelles power cell movement, generate fluid flow in various organs, act as sensors of the extracellular environment and have been modified for various specialized tasks such as light reception and smell. Defects in these ubiquitous organelles lead to a broad array of human genetic disorders that range from polycystic kidney disease, retinal degeneration, epilepsy and infertility to developmental defects such as situs inversus and polydactyly. This volume is the third in a three-part series on cilia that focuses on the use of model organisms to gain insight into ciliary function and on the process of intraflagellar transport that is essential for the assembly and maintenance of ciliary structures. * Includes both classic and state-of-the-art methods readily adaptable across model systems, and designed to last the test of time * Covers forward and reverse genetic analysis of IFT and biochemical methods to define the role of IFT components * Methods presented cover molecular, genetic, and biochemical approaches to ciliary function in model organisms

General Histology of the Mammal

A volume entirely devoted to the nonaxonemal structures and functions of eukaryotic cilia and flagella. The fifteen chapters cover a wide spectrum of organisms (from protozoa and algae to birds and mammals) and an equally wide spectrum of topics (from sexual interactions in the algae to the binding

Molecular Cell Biology

Cilia--the tiny hairlike structures on the surface of cells---have recently been identified as playing a role in a variety of disease and developmental disorders. Absent or defective cilia in certain cells can cause infertility, blindness, kidney disease, and lung disease. This volume presents recent findings in cilia research and current thought on the role of cilia in disease and developmental abnormalities.

Mammalian Development

Along with its companion volume on intraflagellar transport, this book provides researchers with a comprehensive and up-to-date source of methods for the analysis cilia and flagella, focusing primarily on approaches that have been devised or significantly extended since the last volume of *Methods in Cell Biology* on this topic (volume 47, 1995). Edited by Stephen M. King and Gregory J. Pazour, the newest installment of this highly acclaimed serial will serve as an essential addition to the study of cilia and flagella. * Covers protocols for cilia and flagella across systems and species * Both classic and state-of-the-art methods readily adaptable across model systems, and designed to last the test of time * Relevant to clinicians interested in respiratory disease, male infertility, and other syndromes who need to learn biochemical, molecular, and

genetic approaches to studying cilia, flagella, and related structures

Cell Death

Schering Symposium on Intrinsic and Extrinsic Factors in Early Mammalian Development, Venice, April 20 to 23, 1970

The fourth edition of this text highlights the authors' continuing commitment to provide molecular cell biology topics, supported by the experiments and techniques that established them. Streamlined coverage, new pedagogy and a CD-ROM help to reinforce key concepts.

A Laboratory Manual for Comparative Vertebrate Anatomy

Honored by the Association of American Publishers as the Best Medical Book of 2004, Inborn Errors is the definitive work on genetically caused abnormalities of human development. Despite the explosion in genetic advances, the causes of two-thirds of all birth defects remain unknown. However, we are on the brink of a revolution in this area, and Inborn Errors is at the forefront. It is the first book to connect the disease-causing gene to its biochemical pathway and to the structural/functional disorder. Mutations of the gene, the clinical picture, genetic counseling and prognosis, and any known treatments are discussed. For medical geneticists, genetic counselors, pediatricians, and developmental biologists, the book is a unique and groundbreaking reference.

Maternal Control of Development in Vertebrates

Proceedings of the National Academy of Sciences of the United States of America

ENDOCRINOLOGY, edited by J. Larry Jameson, MD, PhD and Leslie J. De Groot, MD, has been considered the definitive source in its field for decades. Now this landmark reference has been exhaustively updated to bring you the latest clinical guidance on all aspects of diagnosis and treatment for the full range of endocrine and metabolism disorders, including new information on diabetes, obesity, MEN I and II, disorders of sex determination, and pituitary tumors. Entirely new chapters on Lipodystrophy Syndromes, Lipoprotein Metabolism, and Genetic Disorders of Phosphate Homeostasis keep you well informed on today's hot topics. You'll benefit from unique, global perspectives on adult and pediatric endocrinology

prepared by an international team of renowned authorities. This reference is optimally designed to help you succeed in your demanding practice and ensure the best possible outcomes for every patient. Overcome virtually any clinical challenge with detailed, expert coverage of every area of endocrinology, authored by hundreds of leading luminaries in the field. Provide state-of-the-art care with comprehensive updates on diabetes, obesity, MEN I and II, disorders of sex determination, and pituitary tumors brand-new chapters on Lipodystrophy Syndromes, Lipoprotein Metabolism, and Genetic Disorders of Phosphate Homeostasis expanded coverage of sports performance, including testosterone, androgen research, and bone growth and deterioration and the newest discoveries in genetics and how they affect patient care. Make the best clinical decisions with an enhanced emphasis on evidence-based practice in conjunction with expert opinion. Rapidly consult with trusted authorities thanks to new expert-opinion treatment strategies and recommendations. Zero in on the most relevant and useful references with the aid of a more focused, concise bibliography. Locate information more quickly, while still getting the complete coverage you expect.

Nutritional and Metabolic Diseases: New Insights for the Healthcare Professional: 2011 Edition

Biogenesis and Function of Primary Cilia in Mammalian Cells

Meet the growing challenges of diabetes and obesity management with Endocrinology: Adult and Pediatric: Diabetes Mellitus and Obesity - a new diabetes and obesity eBook from the same expert endocrinologists responsible for the highly acclaimed two-volume Endocrinology clinical reference. With all of the latest advances loaded on your favorite eReader, you'll be able to put today's best practices to work for your patients. Stay abreast of the newest knowledge and advances in diabetes mellitus and obesity, including today's increased focus on controlling autoimmunity and preserving or replenishing beta-cell mass in the management of type 1 diabetes; complications of diabetes and their pathogenesis, morbidity, and treatment; new findings and treatments for obesity; and much more. Count on all the authority that has made Endocrinology, 6th Edition, edited by Drs. Jameson and DeGroot, the go-to clinical reference for endocrinologists worldwide. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compatible with Kindle®, nook®, and other popular devices.

[ROMANCE](#) [ACTION & ADVENTURE](#) [MYSTERY & THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#) [YOUNG ADULT](#) [FANTASY](#)
[HISTORICAL FICTION](#) [HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE FICTION](#)