

The background of the book cover is a black and white electron micrograph showing the intricate structure of kidney tissue, including various cellular components and tubular structures.

New insights in vertebrate kidney function

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New Insights In Vertebrate Kidney Function

Christal Pollock



New Insights In Vertebrate Kidney Function:

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regulated by the movement of ions into and out of organs tissues and cells During the past decade a variety of new techniques and approaches have contributed to a deeper understanding of the myriad influences ions have on the function and structure of organisms From respiration and excretion to neurological control and metabolic processing ions and their regulation occupy a central role in physiology of fish as well as other organisms Comprehensive update of ionic regulation in fish Focuses on wide variety of organ systems and the influence of ions on organ system function Contributions from an international group *International Review of Cytology*, 1999-09-02 *International Review of Cytology* presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research Structural and Functional Evolution of the Natriuretic Peptide System in Vertebrates The Kinetochore of Higher Eukaryotes Mitochondrial Proteins at Unexpected Cellular Locations The Petite Mutation in Yeast Effects on Stress on Cellular Infrastructure and Metabolic Organization in Plant Cells **The Design of Mammals** John William Prothero, 2015-10-22 A uniquely comprehensive examination of the ways in which mammals of diverse size and taxonomy are quantitatively similar and dissimilar **Toxicology of Aquatic Pollution** E. W. Taylor, 1996-03-29 When this book was first published in 1996 the pollution of the earth's freshwater habitats was as it is now a topic of major concern This synthesis considers the effects of pollutants on aquatic animals via a series of research and review articles that present experimental evidence of sublethal and lethal effects of a range of toxicants at the physiological cellular and subcellular levels and that explore techniques for detection of pollution damage Topics covered include routes of uptake of toxicants the effect of acute and chronic exposure to toxic metal ions particularly zinc copper and aluminium with emphasis on the mechanisms of toxicity and responses to chronic exposure to sublethal levels the impact on fish biology of two chemicals of current concern nitrites and polycyclic aromatic hydrocarbons which may act as oestrogenic substances or potent mutagens and in vitro studies of the mechanisms of toxicity at the cellular and subcellular level including damage of DNA using cultured fish cells **Osmotic and Ionic Regulation** David H. Evans, 2008-11-18 In the 40 years since the classic review of osmotic and ionic regulation written by Potts and Parry there has been astonishing growth in scientific productivity a marked shift in the direction and taxonomic distribution of research and amazing changes in the technology of scientific research It is indicative of the growth of the subject that as Sturkie's Avian Physiology G. Causey Whittow, 1999-10-14 *Sturkie's Avian Physiology* is the classic comprehensive single volume on the physiology of domestic as well as wild birds The Fifth Edition is thoroughly revised and updated and includes new chapters on the physiology of incubation and growth Chapters on the nervous system and sensory organs have been greatly expanded due to the many recent advances in the field The text also covers the physiology of flight reproduction in both male and female birds and the immunophysiology of birds The Fifth Edition like the earlier editions is a

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Renal Disease, An Issue of Veterinary Clinics of North America: Exotic Animal Practice, E-Book Christal Pollock, 2019-12-03 This issue of Veterinary Clinics Exotic Animal Practice guest edited by Dr Christal Pollock focuses on Renal Disease This is one of three issues each year selected by the series consulting editor Dr Jorg Mayer Articles in this issue include but are not limited to Anatomy and physiology of the avian renal system Diseases of the avian renal system Laboratory evaluation of renal function Diagnostic imaging of the avian renal system Clinical management of avian renal disease Anatomy and physiology of the reptile renal system Clinical management of reptile renal disease Diagnostic imaging of the renal system in exotic companion mammals Renal disease in amphibians Renal disease in fish Diseases of the reptile renal system Diagnostic imaging of the reptile urinary system and Renal disease in exotic companion mammals *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1993

Amino Acids and Their Derivatives in Higher Plants R. M. Wallsgrove, 1995-01-26 For 150 years scientists at the Rothamsted Experimental Station have studied aspects of plant nitrogen nutrition and amino acid biosynthesis This book is the result of a meeting held to mark this century and a half of work there The papers look at the significant progress in understanding the biochemistry of amino acids recently achieved in the light of this history of research Leading researchers from around the world have contributed authoritative chapters on protein amino acids non protein amino acids betaines glutathione polyamines and other secondary metabolites derived from amino acids As well as being essential in some animals nutrition these compounds can have important roles in defending against herbivores insects and disease An understanding of these compounds can help in devising better crop protection and production methods

Molecular and Cellular Aspects of Plant Reproduction Rod J. Scott, A. D. Stead, 1994-11-24 Molecular aspects of flower morphogenesis for researchers and students from SEB Seminar The book will appeal to students and researchers in floral physiology *Post-translational Modifications in Plants* N. H. Battey, H. G. Dickinson, A. M. Hetherington, 1993-03-18 This book is about what happens to proteins once they have been synthesised within the plant cell

The Physiology of Fishes, Second Edition David H. Evans, James B. Claiborne, 1997-10-10 As in the bestselling first edition The Physiology of Fishes Second Edition is a comprehensive state of the art review of the major areas of research in modern fish physiology This Second Edition is entirely revised with 17 of the 18 chapters written by new authors It also includes four entirely new chapters

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