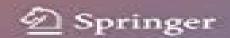
Advances in Experimental Medicine and Biology 884 Neuroscience and Respiration

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Pathophysiology of Respiration



<u>Pathophysiology Respiration Advances Experimental</u> <u>Medicine</u>

Gary C. Kanel

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Mitochondrial Disorders: Biochemical and Molecular Basis of Disease Grant M. Hatch, 2022-01-11 of Laboratory Rodents and Rabbits Stephen W. Barthold, Stephen M. Griffey, Dean H. Percy, 2016-01-04 Now in its fourth edition Pathology of Laboratory Rodents and Rabbits has become a standard text for veterinary pathologists laboratory animal veterinarians students and others interested in these species The standard reference on the pathogenesis and cardinal diagnostic features of diseases of mice rats hamsters gerbils guinea pigs and rabbits Expanded coverage of rabbit disease normal anatomic features and biology Over 450 color photographs illustrating gross and microscopic pathology Companion website offering images from the text in PowerPoint Respiratory Regulation - The Molecular Approach Mieczyslaw Pokorski, 2012-07-27 This book an international collaborative effort in the area of molecular respiratory research showcases a broad range of multidisciplinary approaches to unravel and analyze the underlying mechanisms of a spectrum of respiratory ailments It discusses immunological and genetic respiratory disorders cancer respiratory allergies and cough sleep disordered breathing and many others Exciting new results and up to date critical overviews of widely debated topics pertaining to respiratory disorders are presented The contributions provide evidence for the growing interest of the international community of researchers in the field of respiration The book incorporates modern molecular approaches to diagnostic and treatment solutions underscoring the need for rational evidence based treatment methods Combining cutting edge basic and clinical research with expert knowledge and experience this book is essential reading for medical students research scientists and practicing specialists in pulmonology immunology and allergology **Aguaporins** Baoxue Yang, 2023-01-30 This book provides a state of the art report on our current understanding of aguaporins and the future direction of the field Aquaporins AQPs are a group of water channel proteins that are specifically permeable to water and other small molecules such as glycerol and urea To date thirteen water channel proteins AQP0 AQP12 have been cloned and the mechanisms and physiological functions of water transport across biological membranes have long been the subject of interest Recent advances in the molecular biology and physiology of water transport have yielded new insights into how and why water moves across cell membranes and studies on aquaporin knockout mouse models suggest that aquaporins are

involved in the development of some diseases and they may be useful targets of research into selective inhibitor drugs By focusing on the advances made over the last 30 years in the biophysics genetics protein structure molecular biology physiology pathophysiology and pharmacology of aquaporins in mammalian cell membranes this book provides novel insights into further mechanisms and the physiological significance of water and some small molecule transport in mammals in order to stimulate further research in new directions In the second version fourteen chapters will be updated base on the most Fetal and Neonatal Physiology for the Advanced Practice recent research articles Ten new chapters will be added Nurse Amy Jnah, Amy J. Jnah, Andrea Nicole Trembath, 2019-01-08 Written for neonatal and pediatric nurse practitioner students Fetal and Neonatal Physiology for the Advanced Practice Nurse explores the developmental physiology of premature and term infants and presents common diseases that affect this specialized population This unique text offers an innovative and engaging approach to learning normal and abnormal physiology to prepare students for their roles as resourceful and informed problem solvers caregivers and health promoters Part One introduces core concepts including fetal origins of disease genetic inheritance patterns and placental physiology Part Two investigates each major human body system Finally Part Three offers an exploration into the transition to extrauterine life and common challenges for perinatal and neonatal clinicians With a multitude of student learning resources and tools Fetal and Neonatal Physiology for the Advanced Practice Nurse promotes contemplative thinking understanding and retention Every chapter includes learning objectives for guidance advice from the authors and a mind map to visualize difficult concepts Written by junior and senior nurses and physicians this text embodies the interprofessional approach associated with optimal outcomes Chapter podcasts and discussion questions are included with the text to actively integrate written content and engage students using multisensory teaching methods Key Features Presents a concise visual and interactive presentation of a challenging subject Designed specifically to accommodate a semester long course Contains numerous illustrations depicting fetal development and physiology of the different body systems Each chapter contains reflective questions and other interactive learning resources Incorporates genetics and pathophysiologic correlations Meets the nationally recognized accreditation requirements for APN physiology coursework Atlas of Liver Pathology - E-Book Gary C. Kanel, 2023-04-07 Highly illustrated and conveniently templated for quick reference Atlas of Liver Pathology 4th Edition is a useful Atlas and text for every practicing pathologist or trainee who assesses liver biopsy specimens From cover to cover it contains all the information needed to identify histologic features and correlate them with clinical findings offering a clearer understanding of the clinical implications of the disease as it relates to treatment More than 1 200 high quality full color images and illustrations provide you with a complete visual guide to the vast majority of liver diseases and assist in the diagnoses of biopsy and resected liver specimens Provides clear templated information for each disease Major Morphologic Features Special Stains Differential Diagnoses Clinical and Biologic Behavior and Treatment and Prognosis Incorporates relevant data from ancillary techniques immunohistochemistry cytology

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