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Arterial Variations in Humans: Key Reference for Radiologists and Surgeons - Frank K. Wacker
2017-08-03

Based on the landmark work *Arterial Variations in Man: Classification and Frequency* by Lippert

and Pabst, this atlas presents the full range of arterial variations that occur in the human body. Adding an interdisciplinary perspective to the original text, *Arterial Variations in Humans: Key Reference for Radiologists and Surgeons* shows

variations of the arteries with schematic diagrams alongside their corresponding radiological images. Chapters begin with schematic and radiological depictions of normal arterial blood supply, followed by images of the arterial variation, to enable rapid identification of individual variations. This unique resource also includes statistics on the frequency of specific arterial variations and explanations of their embryologic origins. Special Features: Coverage of arterial variations in the head, neck, spine, thorax, abdomen and pelvis, and upper and lower extremities with separate chapters devoted to each major artery Clearly drawn schematic outlines and their correlating high-quality radiological scans-more than 900 illustrations in total-highlight arterial variations Images of the "normal" arterial anatomy as described in standard textbooks are provided for side-by-side comparison with the arterial variation Percentages for the frequency of occurrence of arterial variations with references

to the source of the data Concise and lucid descriptions in each chapter facilitate complete comprehension of normal and abnormal vascular anatomy With Arterial Variations in Humans: Key Reference for Radiologists and Surgeons, radiologists will gain a full understanding of the diversity of arterial anatomy-essential knowledge for the accurate interpretation of pathological changes in diagnostic imaging. Interventional radiologists and vascular and general surgeons will also find this book valuable for planning and performing procedures safely and effectively.

Modern Concepts of Peripheral Nerve Repair - Kirsten Haastert-Talini 2017-06-19

This book focuses on posttraumatic repair and reconstruction of peripheral nerves. Written by internationally respected specialists, it provides an overview of the challenges and the latest advances in diagnosis and treatment of traumatic peripheral nerve injuries. It presents an outline of state-of-the-art procedures from

diagnostics, including newest imaging techniques, over conventional and alternative surgical approaches to clinical follow-up and rehabilitation, including the latest concepts to improve functional recovery. The purely clinical topics are preceded by neuroanatomical principles and neurobiological events related to peripheral nerve transection injuries and followed by an outlook on current experimental developments in the area of biomaterials for artificial nerve grafts and peripheral nerve tissue engineering. Peripheral nerve injuries not only affect the nerve tissue at the site of injury, but also target tissue and parts of the central nervous system. They often have dramatic consequences for patients, including loss of sensory and motor functions combined with paresthesia or pain, and a reduced quality of life and ability to work. An adequate understanding of the procedures for proper decision-making and reconstructing peripheral nerves is therefore essential to ensure optimized

functional recovery.

Emerging Functions of Septins - Manoj B. Menon 2017-10-10

Together with the microfilament, microtubule and intermediate-filament networks, septins constitute an integral part of the eukaryotic cytoskeleton. Historically identified as proteins critical for septum formation in the budding yeast *Saccharomyces cerevisiae*, septin family GTPases are expressed and participate in the process of cytokinesis in most eukaryotes except higher plants. More than a dozen septin genes in mammals, together with various splice variants displaying tissue-specific expression patterns and flexible hetero-polymeric higher-order assembly achieve an unfathomable complexity superior to the other cytoskeletal components. Even though the initial studies in the septin field was restricted to their evolutionarily conserved role in cell division, strong expression of septins in the non-dividing cells of the brain generated great interest in understanding their role in

neuronal morphogenesis and other aspects of cellular function. On one hand, recent developments indicate complex non-canonical roles for septins in diverse processes ranging from neuronal development to immune response and calcium signaling. On the other hand several lines of data including those from knockout models question the universal role for septins in animal cell cytokinesis. Mammalian hematopoietic cells seem to proliferate and efficiently undergo cytokinesis in the absence of pivotal septin proteins in a context-dependent manner. The lack of septin-dependence of hematopoiesis also opens the possibility of safely targeting septin-dependent cytokinesis for solid-tumor therapy. Thus the septin field is perfectly poised with novel roles for septins being discovered and the basic understanding on septin assembly and its canonical functions constantly revisited. The objective of this research topic was to provide an exclusive platform for discussing these rapid advances in

the septin field. With a mixture of reviews and research articles encompassing diverse areas of septin research, ranging from the humble yeast model to human cancer, this ebook will be an interesting reading material for both experts as well as new comers to the septin field.

Membrane Organization and Dynamics -

Amitabha Chattopadhyay 2017-12-06

This volume brings together information on membrane organization and dynamics from a variety of spectroscopic, microscopic and simulation approaches, spanning a broad range of time scales. The implication of such dynamic information on membrane function in health and disease is a topic of contemporary interest. The chapters cover various aspects of membrane lipid and protein dynamics, explored using a battery of experimental and theoretical approaches. The synthesis of information and knowledge gained by utilizing multiple approaches will provide the reader with a comprehensive understanding of the underlying

membrane dynamics and function, which will help to develop robust dynamic models for the understanding of membrane function in healthy and diseased states. In the last few years, crystal structures of an impressive number of membrane proteins have been reported, thanks to tremendous advances in membrane protein crystallization techniques. Some of these recently solved structures belong to the G protein-coupled receptor (GPCR) family, which are particularly difficult to crystallize due to their intrinsic flexibility. Nonetheless, these static structures do not provide the necessary information to understand the function of membrane proteins in the complex membrane milieu. This volume will address the dynamic nature of membrane proteins within the membrane and will provide the reader with an up-to-date overview of the theory and practical approaches that can be used. This volume will be invaluable to researchers working in a wide range of scientific areas, from biochemistry and

molecular biology to biophysics and protein science. Students of these fields will also find this volume very useful. This book will also be of great use to those who are interested in the dynamic nature of biological processes.

Pancreatitis - David B. Adams 2017-02-02
Pancreatitis: medical and surgical management provides gastroenterologists and GI surgeons, both fully qualified and in training, with a focused, evidence-based approach to the most exciting developments in the diagnosis and clinical management of pancreatitis. Focusing mainly on the rapidly changing and innovative medical and surgical strategies to manage the disease, new surgical procedures such as endoscopic biliary intervention and minimally invasive necrosectomy to exciting new medical therapies like Antiprotease, Lexipafant, probiotics and enzyme treatment are all discussed. Full colour throughout, with over 250 colour illustrations and with reference to the latest clinical guidelines from the AGA, ACG and

UEGW at all times, it is an essential consultation tool for all those managing patients with this increasingly common condition.

Hereditary Tyrosinemia - Robert M. Tanguay
2017-10-09

Hereditary tyrosinemia type 1 (HT1), the most severe inborn error of the tyrosine degradation pathway, is due to a deficiency in fumarylacetoacetate hydrolase (FAH). The worldwide frequency of HT1 is one per 100,000 births, but some regions have a significantly higher incidence (1:1,800). The FAH defect results in the accumulation of toxic metabolites,

mainly in the liver. If left untreated, HT1 is usually fatal before the age of two. HT1 patients develop several chronic complications including cirrhosis with a high risk of hepatocellular carcinoma (HCC) and neuropsychological impairment. Treatment comprises an inhibitor of the pathway, Nitisinone, a strict dietary treatment or liver transplantation. Early treatment is important to avoid HCC. The book includes the latest developments on the molecular basis of HT1, its pathology, screening and diagnosis and management of the disease written by leading scientists, geneticists, hepatologists and clinicians in the field.