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Lockdown 2.0 got you feeling on edge? You’re not alone (Picture: Getty Images/iStockphoto) The symptoms among my previously healthy friends are widespread, from skin flare-ups and back pain to ...

Cardiovascular immunology is a newly emerging research area, investigating the crosstalk between the cardiovascular and the immune system. This crosstalk is evident through (1) crucial immunological capacities and functions of cardiovascular cell types, including cardiomyocytes, fibroblasts, endothelial cells, pericytes and cardiac resident macrophages, (2) the impact of aberrant immune function on the development of cardiovascular disease such as atherosclerosis, direct and indirect immune-mediated heart disease and vasculitis, and (3) the crucial role of the immune system in cardiac repair and regeneration. The Immunology of Cardiovascular Homeostasis and Pathology covers all these aspects of cardiovascular immunology, starting with homeostatic immunological functions of traditional cardiovascular cell types, and moving then to the role of the immune system in cardiovascular pathology and to recent research into targeting the immune system to boost cardiac healing and regeneration.

This book is focused on the analysis of the role played by immune cell components in the angiogenic process associated with inflammation and tumor growth. Both innate and adaptive immune cells are involved in the mechanisms of endothelial cell proliferation, migration and activation, through the production and release of a large spectrum of pro-angiogenic mediators. These may create the specific microenvironment that favors an increased rate of tissue vascularization. The link between chronic inflammation and tumorigenesis was first proposed by Rudolf Virchow in 1863 after the observation that infiltrating leukocytes are a hallmark of tumors and first established a causative connection between the lymph reticular infiltrate at sites of chronic inflammation and the development of cancer. Tumors were described as wounds that never heal and surgeons have long described the tendency of tumors to recur in healing resection margin and it has been reported that wound healing environment provides an opportunistic matrix for tumor growth. As angiogenesis is the result of a net balance between the activities exerted by positive and negative regulators, this book will also provide information on some anti-angiogenic properties of immune cells that may be utilized for a potential pharmacological use as anti-angiogenic agents in inflammation as well as in cancer. The work is written for researchers in the field and also for graduate students which approach this matter.

Tumor angiogenesis is one of the most prominent mechanisms driving tumor development and progression. This book is written by internationally renowned experts. Part 1 describes the basic mechanisms. Tumor-angiogenic signaling pathways are presented as new potential targets for anti-angiogenic therapy. Part 2 reviews the efforts made to validate new targets and to show efficacy in animals. Part 3 is devoted to the clinical development of the novel anti-angiogenic drugs and their use in clinical practice.

Angiogenesis describes the formation of new blood vessels, which arise as outgrowths from existing vessels. In many physiological processes such as ovulation and wound healing angiogenesis is involved for a relatively short time. Otherwise under normal physiological conditions in the adult organism angiogenesis is an extremely slow process. By contrast in certain disease states such as diabetic retinopathy, arthritis, chronic inflammation, hemangiomas, etc., angiogenesis persists and contributes to the pathology of these disease states. Some 50 such "angiogenic diseases" have been described where angiogeneSiS is involved. Also in tumor growth and metastasis angiogenesis is an essential process and precedes neoplastic transformation. Hence, angiogenesis could become an important diagnostic tool and a target for developing therapeutic agents. This book contains the proceedings of the NATO Advanced Study Institute on "Angiogenesis in Health and Disease" held in Porto Hydra, Greece, from June 16-27, 1991. This meeting was a comprehensive review of endothelial cell biology and endothelial cell phenotypic and functional heterogeneity in relation to angiogenesis under physiological and pathological conditions. Numerous in vitro and in vivo models were presented, which are used to study angiogenesis at the molecular and cellular levels and to evaluate chemical compounds or naturally occuring substances for their effect on angiogenesis. The presentations and discussions at this meeting provided an opportunity for the basic science and the clinical disciplines to meet, exchange information and provide future research directions for many investigators engaged in the study of angiogenesis.

This book provides readers with an up-to-date and comprehensive view on the resolution of inflammation and on new developments in this area, including pro-resolution mediators, apoptosis, macrophage clearance of apoptotic cells, possible novel drug developments.

Macrophages are the sentinels of the immune system whose role has evolved beyond providing aseptic conditions to homeostasis, immune regulation, development, and behaviour. These cells have varied ontogenetic origins which reflects in their phenotypic and functional heterogeneity. Macrophage functions are fine-tuned by exogenous and endogenous signals and once tweaked, the information is included in

their genetic makeup, albeit not indefinitely. Subversion of the macrophage functions is the hallmark of many pathogenic organisms and modulation of macrophage activity is pivotal to many therapeutic strategies. Fascinating and rapid developments in this field have necessitated the maintenance of currency of knowledge. This book provides a current account of information on varied topics in macrophage biology. Literature surveys have been presented in a captivating and lucid language. The contributing authors have also provided brief accounts of their own research. Every chapter provides a future perspective of what more could be achieved in the context of the current knowledge. The book will be of interest to students and researchers in microbiology, immunobiology, translational research, pathology, and related fields.

In the past, neutrophils were often reduced to their ability to release preformed mediators and kill pathogens. The present volume of Chemical Immunology and Allergy, however, offers a very broad and timely view by highlighting the versatile functions of neutrophils in inflammatory, immune and antitumoral responses. Leading investigators uncover novel aspects of neutrophils, such as their capacity to control gene expression at the transcriptional level, or respond to proinflammatory cytokines, cytokine receptor chains (gc) and endogenous anti-inflammatory lipid mediators. Further points under discussion are neutrophils presenting antigens, activating T cells, participating in chemokine networking, and producing IL-12 and other cytokines during infectious diseases. Among the most original findings presented in this publication figure the observations that neutrophils cause increased vascular permeability during acute inflammation, regulate directly the angiogenic process, and influence tumor development. A final article offers a detailed description of the molecular processes affecting neutrophil cell death and survival. Unique in its field, this valuable volume is recommended reading not only for immunologists and pathologists, but also for cell biologists, hematologists and immunobiologists.

Pancreatic ribonuclease, the focus of highly productive scientific research for more than half a century and the only enzyme to be the basis of four Nobel prizes, has recently undergone a resurgence in popularity for the recognition of an extended ribonuclease superfamily with functions ranging from tumour growth and inhibition to self-recognition and neurotoxicity. This volume highlights the functional diversity of ribonucleases and reveals the emerging research opportunities provided by these enzymes. * Never before has discussion of the entire family of ribonucleases and related enzymes been covered in a single volume * Core chapters focus on the latest structures and functions of pancreatic-type ribonucleases * Structures and functions of intracellular ribonucleases and nondigestive members of the family are also covered * How ribonucleases continue to serve as excellent systems with which to uncover the secrets of protein chemistry is demonstrated