

New Books

Asthma: Targeted Biological Therapies

Pelaia, Girolamo, Vatrella, Alessandro, Maselli, Rosario
SPRINGER. 1st ed. 2017, VI, 99 p. 11 illus. in color.

- Describes the rationale, mechanisms of action, and indications for use of biologics in asthma
- Offers an excellent balance between basic science and analysis of clinical trials
- Includes very clear illustrations and informative references

This book focuses on the fundamentals of the use of biologics in asthma, describing the rationale, principles, mechanisms of action, and indications. It offers an excellent balance between basic science and the analysis of clinical trials, updating readers with new developments that are changing the global scenario for targeted biological antiasthma therapies, especially with regard to more severe disease. A range of therapies are considered, from the humanized monoclonal anti-IgE antibody omalizumab, widely approved as add-on treatment for inadequately controlled disease, through to emerging biologics for which evidence supportive of efficacy is accumulating, including anti-IL-5, anti-IL-4, and anti-IL-13 therapies. One aspect to emerge is the variability in individual response, which suggests a need for characterization of different asthma subtypes to permit the effective implementation of phenotype-targeted treatments. This book will be of interest for pulmonologists, clinical immunologists, and physicians seeking sound information on these therapies, but also for scientists and pharmacologists wishing to enhance their knowledge of the therapeutic implications of the cellular and molecular mechanisms that underlie severe, uncontrolled asthma.

Wireless Health

Series: Springer Briefs in Computer Science
H. Wang, M.S. Mahmud, H. Fang, C. Wang
SPRINGER. 1st ed. 2016, X, 53 p. 12 illus.

- Equips readers to understand the current wireless healthcare system while also anticipating the future growth of the system
- Covers essential topics including mobile health, e-Health, nanotechnology, and sensor systems
- Describes sensors with applications in social media, fitness, health monitoring, sports, and the military

This book provides a candid assessment and practical knowledge about the current technological advancements of the wireless healthcare system. This book presents the competencies of modeling e-health framework, medical wi-

reless body sensor networks, communication technologies for mobile health, nanotechnology innovations in medicine, security issues for medical records, personalized services in healthcare applications, and Big Data for wireless health. This book covers multiple research perspectives in order to address the strong need for interdisciplinary research in the area of wireless health, such as the interactive research among biomedical sensor technology, intelligent textiles and advanced wireless network technology. The interactions involve experts from multidisciplinary fields including medical, information technology and computing fields. Designed as a study tool for graduate students, researchers, and medical professionals, this book is also valuable for business managers, entrepreneurs, and investors within the medical and healthcare industries. It is useful for anyone who cares about the future opportunities in healthcare systems.

Practical immunodermatology

X.-H. Gao, H.-D. Chen (Eds.)
SPRINGER. 1st ed. 2017, VI, 385 p. 145 illus., 100 illus. in color.

- Illustrates 40 skin diseases, focusing on immunological causes, pathogenesis, pattern of reaction as well as treatment choices and responses
- Combines information on the skin immune system, descriptions of clinical diseases, relevant immune techniques and immunological drugs
- An invaluable reference resource and for dermatologists, residents and graduate students in dermatology

This book discusses typical skin diseases from an immunological point of view, introducing the latest immunological techniques and practices. It begins with a brief overview of the human immune system, including the basic concepts and principles as well as the general symbols used in immunology. Part Two describes the human skin as an integral part of the immune system, explaining the immunological roles of major cellular and molecular composites in the skin. Part Three illustrates typical skin diseases that have immunological involvement (immunodermatological conditions). It describes 40 skin diseases, focusing on immunological causes, pathogenesis, pattern of reaction and treatment choices and responses. The final part discusses advanced immunodiagnostics and immunotherapy in dermatology, providing detailed descriptions of immune techniques for the diagnosis of skin diseases, their principles and background, indications, requirements for sampling, test protocols, interpretation of results and

trouble shooting. This work offers insights into both the systemic immune system and the skin immune system, and integrates the information into discussions of clinical diseases, relevant immune techniques and immunological drugs. Presenting the latest advances in clinical immunology, it is an invaluable resource for dermatologists, residents and graduate students in dermatology.

Stress and Skin Disorders

K. França, M. Jafferany (Eds.)

SPRINGER. 1st ed. 2017, XV, 257 p. 26 illus., 24 illus. in color.

- Focuses on the basic scientific aspects of stress in dermatopathology.
- Offers a comprehensive and didactic approach of the skin diseases caused or exacerbated by stress.
- Addresses the immunology, role and effect of stress on skin disease and quality of life in dermatology

Dermatological conditions are intimately related to stress. Stress can affect, reveal or even exacerbate a number of skin disorders, including alopecia, seborrheic

dermatitis, psoriasis, atopic dermatitis, pruritus, herpes, lichen planus, rosacea and urticarial. On the other hand, the skin disease itself could induce a secondary stress for the patient, influencing his or her quality of life. There is increasing evidence that stress influences disease processes and contributes to inflammation through the modulating hypothalamic-pituitary-adrenal axis – releasing neuropeptides, neurotrophins, lymphokines and other chemical mediators from nerve endings to dermal cells. This is one of the first books published on this topic, focusing more on the basic science aspects of stress in dermatopathology (oxidants, antioxidants, and oxidative injury in dermatopathology, dermatopharmacology, and dermatotoxicology.) Most Psychodermatology texts adopt a practical approach to identify all types of Psychodermatology disorders, focusing on clinical treatment. This concise title offers a comprehensive and didactic approach to skin diseases caused or exacerbated by stress, as well as covers the immunology, role and effect of stress on skin disease, and quality of life in dermatology. In the current programs of medical residency in dermatology, little is taught about the relationship between stress and skin diseases and this book is an important tool for young dermatologists and psychodermatologists in training.