

New Books

Peptide Microarrays. Methods and Protocols

Series: Methods in Molecular Biology, Vol. 1352

Editors: Cretich, Marina, Chiari, Marcella (Eds.)

SPRINGER. 2nd ed. 2016, XI, 298 p. 77 illus., 52 illus. in color. A product of Humana Press

- Includes cutting-edge methods and protocols for peptide microarray study
- Provides step-by-step detail essential for reproducible results
- Contains key notes and implementation advice from the experts

This expert volume provides insights into the technological fundamentals together with a comprehensive overview of the potentialities of peptide microarray technology in basic research and clinical assays. Advancements made in recent years in peptide library synthesis, immobilization chemistry and array production have created a foundation from which different new applications are derived, extending the ways in which peptide microarray technology is applied every day. Divided into three sections, the book covers cutting-edge methods and technology, chemoselective strategies for peptide immobilization, and peptide microarrays for medical applications. Written for the high successful *Methods in Molecular Biology* series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols and tips on troubleshooting and avoiding known pitfalls.

Fully updated and authoritative, *Peptide Microarrays: Methods and Protocols, Second Edition* seeks to encourage scientists to apply current peptide array protocols to the study of interesting new biochemical and medical questions and to assist researchers aiming at developing new methods to further develop peptide microarray technology.

Pruritus

Misery, Laurent, Ständer, Sonja (Eds.)

SPRINGER. 2nd ed. 2016, XV, 453 p. 49 illus., 44 illus. in color

- Comprehensive reference on pruritus
- Discusses the many possible causes of itching
- Provides up-to-date guidelines for the management and the treatment of itch

This book provides a thorough and comprehensive reference in the management of pruritus, designed to be a convenient resource for all physicians confronted with

patients suffering from itch. The Editors have recruited a board of internationally renowned experts to provide an in-depth analysis of the causes and management of pruritus, including the current concepts in pathophysiology and novel therapeutics.

Acute and chronic pruritus can represent significant management issues both as a common physiological sensation and as a manifestation of dermatologic and non-dermatologic diseases. All patients suffering from itch know that it is a very awkward sensation. Unfortunately, this often significant symptom is frequently considered less severe in comparison with pain. The consequences are that research on this field has been poorer than research on pain and that pruritus is therefore more difficult to treat.

Pruritus, Second edition addresses the new concepts and discoveries that have modified our understanding of this condition. It explains the pathophysiology of itch, describes all causes, and provides guidelines for management and treatment.

Practical Pediatric Dermatology

Controversies in Diagnosis and Treatment

Editors: Oranje, Arnold P., Al-Mutairi, Nawaf, Shwayder, Tor (Eds.)

SPRINGER. 1st ed. 2016, XII, 269 p. 47 illus., 44 illus. in color.

- Focuses on a series of key controversies in pediatric dermatology
- Assists an evidence-based approach to diagnosis and treatment
- Covers a wide range of disorders

This book presents a selection of controversial issues of practical importance in pediatric dermatology with the aim of enabling the reader to adopt a well-balanced and evidence-based approach to the management of dermatological disorders encountered during childhood. It is not, therefore, structured according to a basic disease classification; rather it addresses a series of dilemmas in the diagnosis and treatment of a wide range of conditions, including inflammatory disorders, tumors, immune and autoimmune disorders. In addition to areas of debate in the management of individual conditions, controversies in the use of particular types of treatment, for example retinoids, cyclosporin, acyclovir, and laser therapy, are considered and relevant psychological aspects are discussed. *Practical Pediatric Dermatology* will assist pediatricians and dermatologists in decision making during daily clinical practice.

ITCH- Management in Clinical Practice

Current Problems in Dermatology, Vol 50. Editors: P. Itin, G.B.E. Jemec.

Ed: J.C. Szepietowski, E. Weisshaar. KARGER. VIII+210 p., 28 fig., 26 in color, 36 tab., hard cover, 2016. ISBN 978-3-318-05888-8.

Albeit a very common symptom in dermatology, internal medicine, psychosomatics, neurology, and even oncology, itching was under-researched up until 15 years ago. Since then, the clinical aspects of acute and chronic itch have been examined extensively. As a result, some books on the topic have become available. Whereas most publications focus on experimental aspects and diagnostics, this volume of the series *Current Problems in Dermatology* provides a comprehensive overview regarding the management of chronic itch.

Select authors consider interdisciplinary aspects as well as age, body region, and specific diseases as they present a great variety of available treatments. All physicians with patients suffering from itch- especially dermatologists, general practitioners, gerontologists, nephrologists, hepatologists, neurologists, and palliative care doctors- will find this publication to be an essential source of information.

Histamine Intolerance Histamine and Seasickness

Comprehensive guide to histamine intolerance

Ed: R. Jarisch.

SPRINGER. 2015, XI, 155 p. 35 illus. in color.

- Coverage of a wide range of conditions and their relation to histamine
- Excellent aid to differential diagnosis

Histamine is an important mediator of allergic diseases such as hay fever and bronchial asthma, food allergies, urticaria, and drug hypersensitivity. Knowledge of histamine as a cause of numerous non-allergic symptoms and signs is, however, limited. In fact, histamine intolerance can be responsible for conditions as diverse as seasickness, headaches and migraine, tachycardia, gastric disorders, diarrhea, intolerance to contrast media, parodontosis, period pains, nausea and vomiting in pregnancy, atopic dermatitis, and osteoporosis. This book offers wide-ranging coverage of histamine intolerance. There is extensive background discussion of the origin of histamine, its content in food and alcoholic beverages, and intolerance to red wine. Diagnosis of histamine intolerance is explained, and the various symptoms of histamine intolerance are clearly described. Subsequent chapters cover the conditions mentioned above and also consider the relation of histamine to vitamin B6 and the specific immunotherapy of allergies. This book will prove of value in clinical practice by facilitating differential diagnosis, which is by no means straightforward given the multiplicity of symptoms of histamine intolerance, and by assisting in the selection of therapeutic measures.

Inflammatory Dermatopathology

A Pathologist's Survival Guide

Ed. S.D. Billings, J. Cotton.

SPRINGER. 2nd ed. 2016, XXIII, 315 p. 280 illus. in color.

- Provides an image-rich easy to read format
- Each section includes a Practical Tips section to help navigate the differential diagnosis
- Fully updated second edition
- Written by experts in the field

This fully updated and revised new edition will guide the reader to develop a systematic approach to the diagnosis of inflammatory disorders of the skin. It covers the most common and clinically important inflammatory disorders of the skin in a image-rich easy to read format. Each section includes a practical tips section to help navigate the differential diagnosis. Examples of diagnostic comments are provided that practicing pathologists can utilize in their own reports. Therefore, this book will not only guide the reader in how to approach inflammatory dermatoses, it will also help with writing the report. All chapters are revised and updated and include new images. The second edition of *Inflammatory Dermatopathology* will be of great value to surgical pathologists, pathology residents, dermatology residents, and dermatopathology fellows.

Perspiration research

Current Problems in Dermatology, Vol 51

Editors H. Yokozeki, Tokyo; H. Murota, Osaka; I. Katayama, Osaka. VIII+124 p., 61 fig., 41 in color, 10 tab., hard cover, 2016.

ISBN 978-3-318-05904-5

Research into perspiration developed dramatically during the last 15 years, continually enhancing our understanding of the pathogenesis of sweating disorders. It has since been elucidated that in addition to its temperature-regulating function perspiration offers bactericidal protection as well. In this book select authors further broaden our perspective on perspiration. Their contributions cover a variety of new aspects, offering insight into the sweat glands' major role during the onset of disorders such as parapsoriasis, lichen planus, and lichen amyloidosis and highlighting the importance of *Malassezia*- and allergen in sweat that exacerbates atopic dermatitis and cholinergic urticaria. Further roles of the sweat glands are being discussed, including a storage of stem cells for replenishing epidermal cells in the case of thermal burns or as water retention sites for replenishing moisture in the stratum corneum. In addition, a novel analysis of the sweat glands' three-dimensional structures, using high-speed en-face optical coherence tomography (OCT), is being introduced.

Offering an in-depth overview of the latest knowledge in perspiration research, this book serves as an essential reference for all medical staff and research in the field.