

**Pediatric Formulations**

**A Roadmap**

**Contents**


**Fields of interest**

Pharmaceutical Sciences/Technology; Pharmacy; Pediatrics

**Target groups**

Research

**Discount group**

Professional Non-Medical

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**Obesity and Breast Cancer**

**The Role of Dysregulated Estrogen Metabolism**

Obesity is a risk factor for breast cancer in older women. A number of adipose-derived and obesity-related factors have been shown to affect tumour cell growth. These include adipokines, insulin, IGF-1 and oestrogens. The majority of obesity-related postmenopausal breast cancers are oestrogen-dependent. Since the ovaries no longer produce oestrogens after menopause, and that circulating levels are negligible, it is evident that it is the oestrogens produced locally within the breast adipose that are responsible for the increased growth of breast cancer cells. Aromatase is the enzyme that converts androgens into oestrogens and its regulation is dependent on the activity of a number of tissue-specific promoters. Targeting oestrogen biosynthesis in obesity may be useful for the prevention of breast cancer.

**Features**

- Provides current information about recent advances in the hippocampal research field.
- Describes in a structured way information flow from pre-hippocampal areas to processing and read out.
- Depicts the newest discoveries in this field like time cells, grid cells, boundary cells, sequences and nonspatial inputs

**Contents**


**Fields of interest**

Neurosciences; Neurobiology; Behavioural Sciences

**Target groups**

Research

**Discount group**

Professional Non-Medical

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**Due January 2014**


$189.00

ISBN 978-1-4899-8010-6

**Due December 2013**

2014. VII, 54 p. 9 illus., 7 in color. (SpringerBriefs in Cancer Research) Softcover

$54.99

ISBN 978-1-4899-8001-4

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**Space, Time and Memory in the Hippocampal Formation**

The discovery of new cell types, such as grid and time cells, in the hippocampus has been accompanied by major anatomical and theoretical insights in the recent years.

**Features**

- Provides current information about recent advances in the hippocampal research field.
- Describes in a structured way information flow from pre-hippocampal areas to processing and read out.
- Depicts the newest discoveries in this field like time cells, grid cells, boundary cells, sequences and nonspatial inputs

**Contents**


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Neurosciences; Neurobiology; Behavioural Sciences

**Target groups**

Research

**Discount group**

Professional Non-Medical

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 SpringerWienNewYork

**Due January 2014**

2014. IV, 578 p. 80 illus., 65 in color. Hardcover

$209.00

ISBN 978-3-7091-1291-5
New Series
Neglected Tropical Diseases

Series editor: P. Hotez

This book series publishes contributions from individuals engaged in any of the fields related to neglected diseases clearly connected with their exceptional status as neglected. Specific focus of each title lies on the discussion of relevant issues in particular geographic areas of the world. Each volume of the series deals with the unique situation of one region and is built up by a team of authors lead by an expert for the geographic area discussed. This series provides a forum for wealthy discussion on the topic of neglected infectious diseases with a clear focus on basic scientific topics, clinically relevant issues as well as policy issues associated with the area. Topics to be covered: detection, diagnosis, monitoring, vaccine and drug development, new treatments, translational research (link basic research and health system research), clinical aspects, epidemiology, development of new surveillance and control strategies, public health/health policy issues.

C. Franco-Paredes, Phoebe Putney Memorial Hospital, Albany, Georgia (Ed)

Neglected Tropical Diseases - Latin America

The neglected tropical diseases (NTDs) represent some of the most common infections of the poorest people living in Latin American and Caribbean (LAC). Because they primarily afflict the poor as well as selected indigenous populations and people of African descent, the NTDs in LAC are largely forgotten diseases. Yet, their collective disease burden may exceed better known conditions such as of HIV/AIDS, tuberculosis, or malaria. Based on their prevalence and healthy life years lost from disability, hookworm infection, other soil-transmitted helminth infections and Chagas disease are the most important NTDs in LAC, followed by dengue, schistosomiasis, leishmaniasis, trachoma, leprosy, and lymphatic filariasis.

Features
► First volume on this topic with a specific focus on the special situation in Latin America
► Written by dedicated experts in parasitology and infectious disease in this part of the world
► Each chapter deals with a single major disease, focusing on disease burden, major manifestation and approaches to control and elimination of NTDs in Latin America

Contents

Fields of interest
Parasitology; Infectious Diseases; Tropical Medicine

Target groups
Research

Discount group
Professional Non-Medical

Due December 2014

2015. Approx. 300 p. 30 illus. in color. (Neglected Tropical Diseases) Hardcover
► approx. $209.00
ISBN 978-3-7091-1421-6

D. I. Gabrilovich, The Wistar Institute, Philadelphia, PA, USA; A. A. Hurwitz, N Potomac, MD, USA (Eds)

Tumor-Induced Immune Suppression
Mechanisms and Therapeutic Reversal

Contents

Fields of interest
Cancer Research; Immunology; Medical Microbiology

Target groups
Research

Discount group
Professional Non-Medical

Due February 2014

2nd ed. 2014. X, 530 p. 38 illus., 34 in color. Hardcover
► $239.00
ISBN 978-1-4899-8055-7
Toxinology

Clinical Toxinology

Contents

Animal Toxin Envenomation in South Cone of America.- Antisera.- Bees and Wasp Envenomation.- Centipede Venom I.- Centipede Venom II.- Clinical Uses of Snake Antivenoms.- Complications of Hematotoxic Snake Bites in India.- Developing Snake Antivenom Sera by Genetic Immunization: A Review.- Disability and Impairment Following Snakebite in Africa.- Diversity and Distribution of the Medically Important Snakes of India.- Envenomations by Exotic Snakes and Other Venomous Pets.- Envenomations, Snakes, Jelly Fish.- Epidemiology of Snake Envenomation in Taiwan.- Food Poisoning in Bangladesh.- Haematoxic Snake Bites in India.- Historical Review (of Snake Venom).- Management of Snake Envenomation in Taiwan.- Mushroom Poisoning.- Natural Toxin. [...] 

Fields of interest

Biomedicine general; Pharmacology/Toxicology; Pharmaceutical Sciences/Technology 

Target groups

Research 

Discount group

Professional Non-Medical 

Due October 2014 

Print 

2015. 550 p. 30 illus., 15 in color. (Handbook of Toxinology, Volume 2) 

$379.00 


eReference 

2015. 

$379.00 

ISBN 978-94-007-6386-9 

Print + eReference 

2015. 550 p. 30 illus., 15 in color. (Handbook of Toxinology, Volume 2) 

$469.00 

ISBN 978-94-007-6387-6 

Stem Cells and Cancer Stem Cells, Volume 12 

Therapeutic Applications in Disease and Injury 

Contents 


Fields of interest 

Cancer Research; Life Sciences, general; Oncology 

Target groups 

Professional/practitioner 

Discount group 

Professional Non-Medical 

Due January 2014 

Print 

2014. Approx. 600 p. 31 illus., 25 in color. (Stem Cells and Cancer Stem Cells, Volume 12) Hardcover 

$239.00 

ISBN 978-94-017-8031-5 

eReference 

2014. 

$139.00 

ISBN 978-1-62703-979-6 

Spliceosomal Pre-mRNA Splicing 

Methods and Protocols 

Contents 

The Pre-mRNA Splicing Reaction.- Diversity and Evolution of Spliceosomal Systems.- Mechanisms of Spliceosomal Assembly.- Alternative Pre-mRNA Splicing.- Regulation of Alternative Pre-mRNA Splicing.- Introduction to Co-Transcriptional RNA Splicing.- Chromatin and Splicing.- Preparation of Splicing Competent Nuclear Extracts.- Preparation of Yeast Whole Cell Splicing Extract.- Efficient Splinted Ligation of Synthetic RNA Using RNA Ligase.- In Vitro Assay of Pre-mRNA Splicing in Mammalian Nuclear Extract.- Kinetic Analysis of In Vitro Pre-mRNA Splicing in HeLa Nuclear Extract.- In Vitro Systems for Coupling RNAP II Transcription to Splicing and Polyadenylation.- Isolation and Accumulation of Spliceosomal Assembly Intermediates.- Complementation of U4 snRNA in S. cerevisiae Splicing Extracts for Biochemical Studies of snRNP Assembly and Function.- Expression and Purification of Splicing Proteins from Mammalian Cells.- Single Molecule Approaches for Studying Spliceosomal Assembly and Catalysis.- Cell-Based Splicing of Minigenes.- Quantifying the Ratio of Spliceome Components Assembled on Pre-mRNA.- Antisense Methods to Modulate Pre-mRNA Splicing.- Using Yeast Genes to Study Splicing Mechanisms.- Medium Throughput Analysis of Alternative Splicing by Fluorescently Labeled RT-PCR.- Chromatin Immunoprecipitation Approaches to Determine Co-Transcriptional Nature of Splicing.- Computational Approaches to Mine Publicly Available Databases. [...] 

Field of interest 

Human Genetics 

Target groups 

Professional/practitioner 

Discount group 

Professional Non-Medical 

Due April 2014 

Print 

2014. 440 p. 67 illus., 31 in color. (Methods in Molecular Biology, Volume 1126) Hardcover 

$139.00 

ISBN 978-1-62703-979-6
JIMD Reports


Volume 12

J. Zschocke, Medical University Innsbruck, Innsbruck, Austria; K. M. Gibson, Washington State University Clinical Pharmacology, Pullman, WA, USA; G. Brown, University of Oxford, Oxford, UK; E. Morava, Radboud University Nijmegen Medical Center, Nijmegen, The Netherlands; V. Peters, Center for Child and Adolescent Medicine Heidelberg University Hospital, Heidelberg, Germany (Eds)

JIMD Reports - Case and Research Reports, Volume 12

JIMD Reports publishes case and short research reports in the area of inherited metabolic disorders. Case reports highlight some unusual or previously unrecorded feature relevant to the disorder, or serve as an important reminder of clinical or biochemical features of a Mendelian disorder.

Features

- Unique collection of case and research reports on rare metabolic disorders
- Contains unusual or previously unrecorded features relevant to metabolic disorders
- All contributions rigorously peer-reviewed

Contents

Different case studies.

Fields of interest

Human Genetics; Metabolic Diseases; Pediatrics

Target groups

Research

Discount group

Professional Non-Medical

Due December 2013

2013. Approx. 150 p. Softcover

$139.00

ISBN 978-3-319-03460-7

S. Li, J. Cutrera, The University of Texas M.D. Anderson Cancer Center, Houston, TX, USA; R. Heller, Old Dominion University Frank Reibly Ctr for Bioelectrics, Norfolk, VA, USA; J. Teissie, IPBS CNR, Toulouse, France (Eds)

Electroporation Protocols

Preclinical and Clinical Gene Medicine

Contents


Fields of interest

Human Genetics; Gene Expression

Target groups

Professional/practitioner

Discount group

Professional Non-Medical

Due January 2014

2nd ed. 2014. XII, 392 p. 72 illus., 24 in color. (Methods in Molecular Biology, Volume 1121) Hardcover

$139.00

ISBN 978-1-4614-9631-1

M. A. McDowell, University of Notre Dame, Notre Dame, IN, USA; S. Rafati, Pasteur Institute of Iran, Tehran, Iran (Eds)

Neglected Tropical Diseases - Middle East and North Africa

The Middle East and North Africa (MENA) is highly endemic for several neglected tropical diseases (NTDs), including viral, bacterial, protozoan, and helminth infections. This new volume covers the most prevalent NTDs found in about 22 MENA countries emphasizing the disease burden, clinical manifestations and control approaches. Each individual chapter deals with one specific disease and is written by a group of experts on that topic.

Features

- Focuses on region specific topics of neglected tropical diseases in an economically diverse region
- Individual chapters are authored by teams of experts for the topic
- Includes an extensive discussion on disease burden, clinical manifestation and control approaches for individual diseases

Contents


Fields of interest

Parasitology; Infectious Diseases; Tropical Medicine

Target groups

Research

Discount group

Professional Non-Medical

Due June 2014

2014. Approx. 300 p. 50 illus. in color. (Neglected Tropical Diseases) Hardcover

approx. $189.00

ISBN 978-3-7091-1612-8

Neglected Tropical Diseases - Tropical Diseases (Methods in Molecular Biology, Volume 1312) Hardcover

SpringerWienNewYork
Clinical Management of Partial-Onset Seizures in Epilepsy

While tonic-clonic seizures are the most commonly recognized, approximately 60% of patients with epilepsy actually have partial-onset seizures, with one side of the brain being affected. While clinicians regularly see patients with partial-onset seizures, in both the community or office setting, it is often challenging to determine what the type of epilepsy is being experienced and which treatment should be administered. Written by a Dr Jukka Peltola, a renowned key thought leader, this concise high-quality pocket-sized book will be aimed at educating non-specialists how to accurately diagnose and classify partial-onset seizures, with a special focus on currently available and emerging treatments.

Features
- Concise pocket book designed to support physicians and neurologists in their day-to-day practice
- Written by a leading thought leader and developed using the latest clinical evidence and guidelines
- High quality full-color supportive illustrations, tables, and graphs enable complicated concepts to be made clear to readers with different levels of background understanding

Contents
- Introduction to partial-onset epilepsy
- Definition and classification of epileptic seizures
- Diagnosis and prognosis of epileptic syndromes
- Treatment options and long-term management

Fields of interest
- Neurosciences; Medicine/Public Health, general; Pharmacotherapy

Target groups
- Professional/practitioner

Discount group
- Professional Non-Medical

Angiogenesis and Anti-Angiogenesis in Hematological Malignancies

It has been generally accepted that angiogenesis is involved in the pathogenesis of hematological malignancies, like acute and chronic leukemia, lymphoma, myelodysplastic syndromes, myeloproliferative neoplasms and multiple myeloma. The extent of angiogenesis in the bone marrow has been correlated with disease burden, prognosis and treatment outcome. Reciprocal positive and negative interactions between tumor cells and bone marrow stromal cells, namely hematopoietic stem cells, fibroblasts, osteoblasts/osteoclasts, endothelial cells, endothelial progenitor cells, T cells, macrophages and mast cells, mediated by an array of cytokines, receptors and adhesion molecules, modulate the angiogenic response in hematological tumors.

Features
- Describes the critical role Angiogenesis plays in tumor progression and metastasis
- Information on Anti-angiogenesis, one of most promising approaches to the treatment of cancer and metastasis
- Deals with several anti-angiogenic molecules currently used alone or in combination in the treatment of hematological malignancies

Contents
- Preface
- Introduction
- Angiogenesis in multiple myeloma
- Angiogenesis in lymphomas
- Angiogenesis in leukemia
- Antiangiogenesis
- Concluding remarks
- References

Fields of interest
- Cancer research; Oncology; Hematology

Target groups
- Research

Discount group
- Professional Non-Medical
Biomedicine

J. Rorbach, Medical Research Council, Cambridge, UK; A. J. Bobrowicz, Newcastle University The Medical School, Newcastle upon Tyne, UK (Eds)

Polyadenylation
Methods and Protocols

Contents
Human Genetics; Gene Function

Target groups
Professional/practitioner

Discount group
Professional Non-Medical

Due February 2014
2014. 350 p. 68 illus., 18 in color. (Methods in Molecular Biology, Volume 1125) Hardcover
► $139.00

E. Schirmer, J. de las Heras, University of Edinburgh Wellcome Trust Centre for Cell Biology, Edinburgh, UK (Eds)

Cancer Biology and the Nuclear Envelope
Recent Advances May Elucidate Past Paradoxes

Contents
Section I: History and use of the nuclear envelope in cancer prognosis: Overview and perspective.- Cancer and the nuclear envelope, a history and perspective.- The role of the nuclear lamina in cancer and apoptosis.- The diagnostic pathology of the nuclear envelope in human cancers.- Nuclear morphometry, epigenetic changes, and clinical relevance in prostate cancer.- “To be or not to be in good shape”: diagnostic and clinical value of nuclear shape irregularities in thyroid and breast cancer.- Section II: The nuclear envelope in cell cycle regulation and signaling.- pRb and laminas in cell cycle regulation and aging.- Lamin-associated polypeptide (LAP1)2a and other LEM proteins in cancer biology.- NETs and cell cycle regulation.- Nuclear envelope regulation of signaling cascades.- Section III: Nuclear envelope regulation of the genome.- Nuclear envelope - connecting structural genome organization to regulation of gene expression.- Studying lamins in invertebrate models.- Lamin organization of chromosome positioning.- Section IV: Functions of the NPC in cancer.- NPC proteins linked in cancer overexpression.- Nuclear envelope regulation of cancer, cell cycle and aging.- Ran GTPase in nuclear envelope formation and cancer metastasis.- Wnt signaling proteins associate with the nuclear pore complex: implications for cancer.- Section V: The nuclear envelope in DNA damage and stress responses.- DNA damage and lamins. [...] Fields of interest
Cancer Research; Medical Microbiology; Protein Science

Target groups
Research

Discount group
Professional Non-Medical

Due February 2014
2014. X, 730 p. 97 illus., 83 in color. (Advances in Experimental Medicine and Biology, Volume 773) Hardcover
► $279.00
ISBN 978-1-4899-8031-1

S. R. Singh, National Cancer Institute Mouse Cancer Genetics Program, Frederick, MD, USA; P. Rameshwar, UMDNJ-NJ Medical School, Newark, NJ, USA (Eds)

MicroRNA in Development and in the Progression of Cancer

miRNAs are a class of endogenous, small non-protein coding RNA molecules (~22 nucleotides) which are novel post-transcriptional regulators of gene expression. Since we have hundreds of miRNAs, the major challenge is now to understand their specific biological function. In fact the experimental evidence suggests that signaling pathways could be ideal candidates for miRNA-mediated regulation. Several studies suggest that miRNAs affect the responsiveness of cells to signaling molecules such as WNT, Notch, TGF-β and EGFR. Altered expression of particular miRNAs has been implicated in the onset and development of cancer and could be used as potential biomarkers for the disease. Recently, many studies have found miRNAs have crucial regulatory roles in Cancer stem cells (CSCs) a kind of tumor initiating cells (TICs) and dormancy. Findings also suggest that DNA methylation may be important in regulating the expression of many miRNAs in several cancer initiating cells. Several miRNAs are known to either upregulated or downregulated in CSCs when compared to non-cancerous cells from the same tissues.

Features
► Provides a more complete understanding of miRNAs function
► Explore how miRNAs regulate normal development, diseases including cancers and stem cells fate
► Presents the great potential of miRNAs in CSCs and potential therapeutic advances for cancer

Fields of interest
Cancer Research; Gene Expression; Medical Microbiology

Target groups
Research

Discount group
Professional Non-Medical

Due April 2014
2014. X, 270 p. 30 illus. in color. Hardcover
► approx. $189.00
ISBN 978-1-4899-8064-9

MicroRNA in Development and in the Progression of Cancer

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Target groups
Research

Discount group
Professional Non-Medical

Due April 2014
2014. X, 270 p. 30 illus. in color. Hardcover
► approx. $189.00
ISBN 978-1-4899-8064-9
Daily rhythms are a ubiquitous feature of living systems. Generally, these rhythms are not just passive consequences of cyclic fluctuations in the environment, but instead originate within the organism.

Features
- Provides a comprehensive review of the retinal circadian rhythmicity and photoreception
- A unique publication for a special topic course in neurobiology for post-docs, upper level undergraduate or graduate courses
- A useful tool for clinicians and healthcare providers about the daily changes in the retina and how these changes may influence treatment and outcome

Contents
1. Introduction.
2. Fundamental Retinal Circuitry for Circadian Rhythms.
3. Circadian photoreception: from phototransduction to behaviour.
4. Role of Melatonin and Dopamine in the Regulation of Retinal Circadian Rhythms.
5. Circadian Organization of the Vertebrate Retina.
6. Rhythmicity of the Retinal Pigment Epithelium.
7. Retinal Circadian Rhythms in Mammals Revealed Using Electrotetinography.
8. Circadian Clock and Light Induced Retinal Damage.

Fields of interest
Neurosciences; Ophthalmology; Neurobiology

Target groups
Research

Discount group
Professional Non-Medical