**Exon Skipping**

**Methods and Protocols**

**Contents**


**Fields of interest**

Human Genetics

**Target groups**

Professional/practitioner

**Product category**

Contributed volume

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**New Technologies for Toxicity Testing**

The central theme running through this volume on New Technologies for Toxicity Testing is the development and application of advanced techniques for cell and tissue culture, as well as new markers and endpoints of toxicity, as alternatives to the traditional paradigm of relying on data from laboratory animal tests to undertake labelling and risk assessment.

**Features**

- Provides valuable and detailed insight into many of the latest techniques
- Describes several techniques, which broaden the range and improve the sensitivity and relevance of toxicity endpoints, investigated both in vitro and in vivo
- Introduces new methods and systems

**Contents**


**Fields of interest**

Pharmacology/Toxicology; Biomedicine general

**Target groups**

Professional/practitioner

**Product category**

Contributed volume

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**Recombinant Protein Production in Yeast**

**Methods and Protocols**

**Contents**


**Fields of interest**

Human Genetics

**Target groups**

Professional/practitioner

**Product category**

Contributed volume
**Animal Models of Acute Neurological Injuries II**

*Injury and Mechanistic Assessments, Volume 1*

**Contents**


**Fields of interests**

Neurosciences; Neurology; Animal Models

**Target groups**

Professional/practitioner

**Product category**

Contributed volume

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**Animal Models of Acute Neurological Injuries II**

*Injury and Mechanistic Assessments, Volume 2*

**Contents**


**Fields of interests**

Neurosciences; Neurology; Animal Models

**Target groups**

Professional/practitioner

**Product category**

Contributed volume

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**Behavioral Neurogenetics**

This book covers a wide array of topics relevant to behavioral genetics from both a preclinical and clinical standpoint. Indeed in juxtaposing both areas of research the reader will appreciate the true translational nature of the field. Topics covered range from technical advances in genetic analysis in humans and animals to specific descriptions of advances in schizophrenia, attention disorders, depression and anxiety disorders, autism, aggression, neurodegeneration and neurodevelopmental disorders. The importance of gene-environment interactions is emphasised and the role of neuroimaging in unravelling the functional consequences of genetic variability described. This volume will be valued by both the basic scientist and clinician alike who may use it as a detailed reference book. It will also be of use to the novice to the field, to whom it will serve as an in-depth introduction to this exciting area of research.

**Features**

- Important volume on neurobehavioral genetics
- Written by leading experts in the field
- With numerous illustrations

**Contents**


**Fields of interests**

Neurosciences; Psychiatry; Psychopharmacology

**Target groups**

Research

**Product category**

Contributed volume

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**Due April 2012**

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**Due April 2012**

2012. XX, 828 p. 172 illus., 116 in color. (Springer Protocols Handbooks) Hardcover

* € (D) 133,70 | € (A) 137,45 | sFr 166,50

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ISBN 978-1-61779-781-1

**Due May 2012**

2012. Approx. 450 p. 80 illus., 30 in color. (Current Topics in Behavioral Neurosciences, Volume 12) Hardcover

* approx. * € (D) 160,45 | € (A) 164,94 | sFr 215,00

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ISBN 978-3-642-27858-1
R. W. Compans, M. D. Cooper, H. Koprowski, F. Melchers
Volume 357
N. Mantis, Wadsworth Center, Albany, NY, USA (Ed)
Ricin and Shiga Toxins
Pathogenesis, Immunity, Vaccines and Therapeutics
In May of 2011, Western Europe experienced a severe outbreak of Shiga toxin (Stx)-producing E. coli (STEC) that culminated in more than 3200 cases and 39 deaths. While Stx is not the only virulence factor associated with STEC, it is certainly the primary determinant associated with the onset of hemolytic uremic syndrome (HUS). At the present time, there are no clinically approved measures to neutralize Stx in individuals suffering from STEC infection. Nor are there any preventative or therapeutic approaches for ricin toxin.

Contents

Fields of interest
Pharmacology/Toxicology

Target groups
Research

Product category
Contributed volume

Due January 2012
2012. XI, 276 p. 26 illus., 20 in color. Hardcover
* € (D) 117,65 | € (A) 120,95 | sFr 146,50
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JIMD Reports
Society for the Study of Inborn Errors o (Ed)
Volume 4
Society for the Study of Inborn Errors o, SSIEM, London, UK (Ed)
JIMD Reports – Case and Research Reports, 2012/1
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 Reports.

Fields of interest
Human Genetics; Metabolic Diseases; Pediatrics

Target groups
Research

Product category
Contributed volume
Biomedicine.

M. Levite, The Academic College of Tel Aviv, Israel (Ed)

**Nerve-Driven Immunity**

Neurotransmitters and Neuropeptides in the Immune System

Contents

Fields of interests
Immunology; Neurochemistry; Neurosciences

Target groups
Research

Product category
Monograph

Y. V. Li, Ohio University, Athens, OH, USA;
J. H. Zhang, Loma Linda University School of Medicine, CA, USA (Eds)

**Metal Ion in Stroke**

Contents
Preface.- Metal Ions In Stroke Pathophysiology.- Mechanisms Of Calcium Influx Following Stroke.- Mitochondrial Ca2+ Dysregulation During Stroke And Cell Death.- Calcium Channel Blockers And Stroke Prevention.- Calcium Dyshomeostasis In Astrocytes After Ischemia.- Calcium Signaling At The Blood-Brain Barrier In Stroke.- Zinc Overload In Stroke.- Intracellular Zinc Liberation: A Trigger For Oxidative Stress Induced Toxicity To Neurons And Neuroglia.- Zinc In Stroke: Time For A New Approach?. - Exploring The Zinc Metallome Of Cultured Cortical Neurons Using Synchrotron Radiation X-Ray Fluorescence Microscopy.- Iron Neurotoxicity In Ischemic And Hemorrhagic Stroke.- Implication Of Oxidative Stress And “Labile Iron” In The Molecular Mechanisms Of Ischemic Stroke.- The Role Of Iron In Brain Following Subarachnoid Hemorrhage.- Iron Chelating Therapy In Stroke.- Iron Chelating Therapy In Stroke.- The Role Of Na+/Ca2+ Countertransport And Other Na+ Entry Routes In The Pathophysiology Of Stroke.- Sodium And Potassium MRI In Cerebral Ischemia.- The Impact Of Extracellular Potassium Accumulation In Stroke.- Potassium And Mitochondria.- Role Of A Changing Membrane Potential (Em) And Matching Blood Flow With Neuronal Activity.- The Role Of Potassium In Stroke, Cardiovascular Disease And Hypertension.- The Role Of Magnesium In The Pathophysiology And Treatment Of Stroke And Other Neurological Injuries.- The Role Of Magnesium In The Pathophysiology And Treatment Of Stroke And Other Neurological Injuries.- Magnesium And Neuroprotection In Stroke. [...]
Quantitative Trait Loci (QTL)
Methods and Protocols

Features
➢ A practical resource for researchers interested in link between phenotypic and genotypic variation ➢ Provides step-by-step detail essentail for reproducible results ➢ Contains key notes and implementation advice from the experts

Contents

Fields of interest
Human Genetics

Target groups
Professional/practitioner

Product category
Contributed volume

Inflammatory Breast Cancer: An Update

Features
➢ The latest research of inflammatory breast cancer ➢ The latest management of inflammatory breast cancer ➢ Secret of the most aggressive breast cancer revealed ➢ How rare cancer can be tackled in a comprehensive manner ➢ Excellent model for studying breast cancer metastasis

Contents

Fields of interests
Biomedicine general; Cancer Research; Oncology

Target groups
Research

Product category
Contributed volume
Development of Novel Vaccines
Skills, Knowledge and Translational Technologies

Features
- Gives an overview from basic research to final product
- Each chapter is written by author teams from basic research to industry
- Describes latest findings and applications

Contents

Fields of interests
Vaccine; Pharmaceutical Sciences/Technology; Immunology

Target groups
Research

Product category
Contributed volume

Glioma
Immunotherapeutic Approaches

Treatment of glioma is currently one of the most challenging problems in oncology, as well as in neurosurgery.

Features
- Discusses in depth the potential of innovative methods in the broad field of glioma immunology and immunotherapy
- Useful for clinicians, clinical scientists and basic scientists
- Reviews the basic and clinical background, and proceeds from basic science at the bench to the bedside to give a realistic evaluation of the immunology and immunotherapy of glioma
- Written by internationally distinguished experts working in basic science and clinical neurooncology

Contents

Fields of interests
Biomedicine general; Immunology; Cancer Research

Target groups
Professional/practitioner

Product category
Contributed volume