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# Book Catalogue

# 2007-8



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## from the Novartis Foundation

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# Agriculture

# Bioinformatics

# Development

4

## **Insect-Plant Interactions and Induced Plant Defence**

Chair: JOHN A PICKETT, IACR-Rothamsted, UK

- Draws together contributions from research in biochemistry, cell biology and molecular biology, and from academic and industrial environments
- Covers wide-ranging topics including the signals from plants to predators and parasitoids, the plant's responses to attack and consideration of the scientific and practical outcomes, in particular the opportunities for commercial utilization
- Includes contributions from many acknowledged world leaders in the area providing pointers to promising new research directions

"... of immense value to researchers in the field." BIOLOGIST

"... an extremely stimulating book..." ENTOMOLOGICA FENNICA

1999 ISBN: 978-0-471-98815-1 290pp £80.00



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[www.wiley.com/go/novartis](http://www.wiley.com/go/novartis)**

## **'In Silico' Simulation of Biological Processes**

Chair: DENIS NOBLE, University Laboratory of Physiology, Oxford, UK

Key topics covered include:

- The fundamental developments in hardware, software and mathematics that underlie current approaches to biological modelling
- The various methods of collating data on gene structure and function
- Current methods for integrating data on cell signalling into computer models – important both in the understanding of basic cellular processes and in selecting targets for drugs
- How computerized models of intact cells can be developed
- Approaches to the computer modelling of whole organs such as the heart
- The role of computer modelling in drug design

2003 ISBN: 978-0-470-84480-9 272 pp £80.00

## **Immunoinformatics**

### **Bioinformatic Strategies for Better Understanding of Immune Function**

Chair: HANS-GEORG RAMMENSEE, Universität Tübingen, Germany

This book:

- Is the first to give a full coverage of the new and emerging field of immunoinformatics
- Unites contributions from basic immunologists and computer science experts in order to explore all aspects of the topic
- Considers practical applications, such as vaccine development, and will be of interest to the drug development industry

2003 ISBN: 978-0-470-85356-6 272pp £80.00

**NEW**

## **Vascular Development**

Chair: CHRISTER BETSHOLZ, Karolinska Institutet, Stockholm, Sweden

This comprehensive book draws together contributions from vascular biologists, cell biologists and developmental biologists.

- Explores blood vessel formation in connection with tissue development and is organized around four themes: the cell biology and genetics of blood vessel formation, embryonic blood vessel formation in different animal systems, and the mutual signalling between blood vessels and tissue cells
- Focuses on important post-embryonic processes, including tissue and organ regeneration as well as inflammatory and neoplastic conditions where blood vessel formation is an intrinsic part of the pathology
- Covers the crucial role of angiogenesis in the development of cancers and potential cancer-control strategies
- Discusses therapeutic treatments that would either require or be assisted by neovascularization, e.g. post-stroke therapies

2007 ISBN: 978-0-470-03428-6 304 pp £80.00

## **Development of the Cardiac Conduction System**

Chair: ROGER MARKWALD, Medical University of South Carolina, Charleston, USA

- Reviews the structure and function of the developing pacemaking and conduction system (PCS)
- Discusses the molecular and cellular mechanisms regulating embryological development of the PCS
- Explores the molecular and cellular bases of PCS pathology

2003 ISBN: 978-0-470-85035-0 300 pp £80.00



## NEW

## Defining Optimal Immunotherapies for Type 1 Diabetes

Chair: **MATTHIAS VON HERRATH**, La Jolla Institute for Allergy and Immunology, San Diego, USA

Despite several decades of research focused on animal models, we have been slow in developing an effective prevention or cure for type 1 diabetes (T1D). Hopes were high in the early 1990s, when the similarity between mouse and human MHC class II diabetes susceptibility genes had been discovered and a cure seemed at hand via modulating interactions between CD4<sup>+</sup> T cells and such MHC molecules. Unfortunately, a rather sobering realization followed: pathogenesis of T1D is much more complex and polygenic. Disease penetrance is dependent on multiple environmental factors and is likely to involve the participation of CD4<sup>+</sup>, CD8<sup>+</sup> and B lymphocytes. Additionally, given the redundancy in effector pathways that can destroy islet  $\beta$ -cells, we have to be prepared to accept that  $\beta$ -cell destruction might involve mechanisms that differ among individuals.

Where do we go from here and which obstacles need to be overcome to accelerate the pathway to a cure? This book brings together contributions from the leaders in clinical immunotherapy, not limited to the diabetes field, in order to delineate a path towards future clinical trials. The format contains several discussions, which address specific questions and hopefully provide guidelines for future strategies and solutions for discovering a cure.

2008 ISBN10: 0-470-51900-2 300 pp £80.00

## NEW

## Novel and Re-emerging Respiratory Viral Diseases

Chair: **ROBERT G WEBSTER**, St. Jude Children's Research Hospital, Memphis, USA

In the past two decades, the world has been struck by many 'novel' viral diseases. The latest is avian influenza, which has triggered major epidemiological and surveillance studies worldwide, as well as research into the molecular and physiological characteristics of the virus responsible, H5N1. Previously, a novel coronavirus was identified as the aetiological agent of the severe acute respiratory syndrome (SARS), a new respiratory viral disease that emerged at the end of 2002 and caused profound disturbances in over 30 countries in 2003. Although this epidemic has been controlled by isolation, much about the virus remains unknown, particularly its origins and potential reservoir(s).

This book critically evaluates the scientific evidence on these viruses, including molecular biology, diagnostics, animal models of viral infection, plus the development of vaccines and anti-viral agents. Virologists from different countries summarize the latest advances in epidemiology, virus identification and public health measures for protection and prevention.

Representatives from Canada, China, Hong Kong, Taiwan and Singapore, which had the most cases of infection and the most severe social and economic disturbances, provide critical reviews of problems and solutions encountered during the SARS epidemic.

The book also evaluates what was learned from previous flu outbreaks. Representatives from South-East Asian countries review recent bird-to-human avian influenza virus transmissions in their countries and share their experiences in the implementation of effective disease surveillance and control strategies.

2007 ISBN: 978-0-470-06538-9 300 pp £80.00

## Generation and Effector Functions of Regulatory Lymphocytes

Chair: **JEAN-FRANÇOIS BACH**, Laboratoire d'Immunologie Hôpital Necker, Paris, France

This book represents the proceedings of a meeting at which worldwide leaders in research discussed the state-of-the-art in studies of regulatory lymphocytes. It includes detailed presentations of data and discussions concerning

- The physiological control of autoimmunity
- Antigen-specific cells in various diseases and disease models
- Effector mechanisms and therapeutic possibilities

In terms of the practical application of the experimental data, the book focuses on possible applications in Type 1 diabetes, tissue transplantation and the control of viral infection.

2003 ISBN: 978-0-470-85074-9 326pp £80.00

## NEW

## Decoding the Genomic Control of Immune Reactions

Chair: **CHRIS GOODNOW**, John Curtin School of Medical Research, Canberra, Australia

The key questions addressed in this book include:

- What kinds of information do we need to understand how the genome sequence specifies the differentiation and response of immune system cells, and system behaviour such as immunological memory and tolerance?
- Which genome sequences and cellular circuits cause or prevent pathological immune responses to foreign pathogens, allergens or self-tissues?
- Which host and pathogen genome sequences and cellular circuits explain the failure of sterilizing immune responses to sophisticated human pathogens such as the agents of tuberculosis, malaria, metazoan parasites and chronic viruses?

2007 ISBN: 978-0-470-02755-4 232 pp £80.00



# Immunology

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## Mast Cells and Basophils

Development, Activation and Roles in Allergic/Autoimmune Disease

Chair: SANTA ONO, University College London, UK

- Covers the development of mast cells and basophils
- Includes discussions on early and late events in IgE/antigen activation of mast cells and basophils
- Refers to recent insights into the mechanisms of exocytosis
- Details non-IgE mediated activation of mast cells and basophils, as well as of those surface receptors that dampen activation responses
- Reviews the biology of proteases, proteoglycans, lipids, and cytokine mediators released from activated mast cells and basophils
- Incorporates bilateral interactions of mast cells with other cell types

2005 ISBN: 978-0-470-01312-0 274 pp £80.00

**NEW**

## Innate Immunity to Pulmonary Infection

Chair: SIAMON GORDON, Sir William Dunn School of Pathology, University of Oxford, UK

In South Africa, there is an explosive combined epidemic of tuberculosis and HIV, but also a great deal of infection in adults and children by other microorganisms, including pyogenic bacteria such as *S. pneumoniae* and *H. influenzae*, viruses such as influenza and respiratory syncytial virus and fungal agents such as *Pneumocystis carinii* and *Cryptococcus*. In addition, there is an increasing incidence of asthma, associated with urbanization.

This book reviews the mechanisms of pathogenesis and innate immunity in infectious diseases of the lung. It describes the genetic susceptibility to infection and the cellular and molecular responses.

2006 ISBN: 978-0-470-02656-4 238 pp £80.00

## Anaphylaxis

Chair: STEPHEN GALLI, Stanford University School of Medicine, California, USA

In this important book, an interdisciplinary group of experts explore the pathophysiology of different types of anaphylactic and anaphylactoid reactions. Data are presented on the epidemiology of these conditions and problems concerning diagnosis, therapy and prevention are explored in detail. This thorough and up-to-date coverage of the subject will be of great interest to all clinical immunologists, researchers and physicians who deal with this important life-threatening condition.

*"This is a superb and unique book. There is no other publication comparable to it in scope or design."*

DOODY'S HEALTH SERVICES

2004 ISBN: 978-0-470-86114-1 306 pp £80.00

**NEW**

## New Treatment Strategies for Dengue and Other Flaviviral Diseases

Chair: CHARLES RICE, Rockefeller University, New York, USA

- Examines the current state of the art in the molecular biology of the dengue virus with particular emphasis on structure and function of the virus and on the targeting of virus proteins by potential anti-viral agents
- Discusses data on the pathogenesis of dengue and dengue haemorrhagic fever in detail, the emphasis being on target cells and the specific receptors on these cells, in order to develop a clear view of host and viral factors that contribute to dengue haemorrhagic fever
- Reviews the options for treatment of dengue and dengue haemorrhagic fever, paying particular attention to ways in which vector, host and environment can play a critical role in the spread of this disease

*"...painstaking investigations and careful evaluation..."*

JOURNAL OF TROPICAL PEDIATRICS

2006 ISBN: 978-0-470-01643-5 276 pp £80.00

## Inflammatory Bowel Disease

Crossroads of Microbes, Epithelium and Immune Systems

Chair: DEREK JEWELL, University of Oxford, UK

This book draws together four fundamental strands in Inflammatory Bowel Disease (IBD) research, namely, genetics, bacteria, epithelial biology and immunology. The identification of genes that confer susceptibility to IBD should lead to a more complete understanding of disease pathogenesis and of the nature of the key interactions with environmental insult ultimately translating into better diagnosis and more rational and appropriate treatment. IBD comprises a group of idiopathic diseases of the intestine characterized by chronic inflammation of the bowel with periods of exacerbation and remission. The two major categories of IBD are ulcerative colitis and Crohn's disease. In their classical forms, they are different both clinically and histologically but it remains uncertain whether they are distinct diseases or whether they are part of a continuum. Although the exact cause of IBD remains undetermined, the condition appears to be related to a combination of genetic and environmental factors resulting in an aberrant activation of the mucosal immune system.

*"This is a well written book that provides a succinct, easy to read summary of the current concepts in IBD. The discussions following each chapter are invaluable."*

DOODY'S BOOK REVIEW SERVICE

2004 ISBN: 978-0-470-09046-6 238 pp £80.00

## Cancer and Inflammation

Chair: SIAMON GORDON, Sir William Dunn School of Pathology, University of Oxford, UK

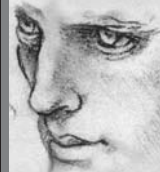
Key issues covered include:

- Epidemiological links between cancer and inflammation
- The role of inflammatory mediators in cancer
- Inflammatory genes as cancer risk and progression factors
- Lessons from anti-cytokine therapeutics in other chronic diseases

*"... a useful guide to the considered thoughts of those within their field."*

BRITISH SOCIETY OF CELL BIOLOGY

2004 ISBN: 978-0-470-85510-2 290 pp £80.00



**NEW**

## Sepsis

### New Insights, New Therapies

Chair: MITCHELL P FINK, The University of Pittsburgh, USA

Sepsis is a complex, systemic, clinical syndrome resulting from the innate host inflammatory response to infection. The aggregate mortality of severe sepsis at one month remains at *ca.* 30% in North America and Europe, and is much higher in the developing world.

- This book brings together contributions from an international group of experts in diverse fields including adaptive immunity, inflammation, neuroendocrinology, bioenergetics and metabolism
- Considers how the various pathways implicated in early and late sepsis interact, with a particular emphasis on novel concepts and potential new therapeutic approaches; involving immune, neural, hormonal, metabolic and bioenergetic pathways that are both affected by, and influence, the inflammatory response

2007 ISBN: 978-0-470-02798-1 302 pp £80.00

## The Genetics of Autoimmunity

Chair: ABUL ABBAS, University of California San Francisco, USA

- Covers the interplay between inherited susceptibility genes and environmental triggers in autoimmune disease
- Discusses the development of tools for whole-genome scans that can be used to research human-genome data for susceptibility genes
- Focuses on the use of SNP technologies in assessing susceptibility loci
- Highlights important recent discoveries of shared susceptibility loci between different autoimmune diseases

2005 ISBN: 978-0-470-02137-8 260 pp £80.00

**NEW**

## The Biology of Extracellular Molecular Chaperones

Chair: PÉTER CSERMELY, Semmelweis University, Budapest, Hungary

When cells are exposed to environmental stress, they respond by activating stress responses. A key signal is the presence of unfolded proteins within the cell, which activates the heat shock or cell stress response. In the two decades since this concept was promulgated, a large number of molecular chaperones and protein folding catalysts have been identified. It has also been recognized that some, but not all, molecular chaperones are stress proteins and vice versa.

While the protein folding paradigm of molecular chaperones was developing, evidence began to accumulate that certain molecular chaperones were present on the surface of cells or in the extracellular fluid. It was later shown that purified molecular chaperones exogenously applied to cells resulted in cell modulation similar to that induced by pro-/anti-inflammatory cytokines. A new paradigm is emerging that at least some molecular chaperones are secreted proteins with important immunomodulatory actions in diseases such as coronary heart disease, diabetes and rheumatoid arthritis.

This book reviews our current knowledge of the cell stress response and molecular chaperones, the changing paradigms of protein trafficking and function, cell stress proteins as immunomodulators and as signalling molecules. The role of these proteins in various chronic diseases and their potential as preventative or therapeutic agents is discussed.

2008 ISBN10: 0-470-51899-5 300 pp £80.00

**NEW**

## Mitochondrial Biology

### New Perspectives

Chair: DAVID G NICHOLLS, Buck Institute for Age Research, Novato, USA

With the recent renaissance in mitochondrial biology and increasing recognition of their role in many diseases, this book provides a timely summary of the current state-of-the-art in mitochondrial research. The book opens with the regulation of mitochondrial replication and biogenesis and reviews the mechanisms and functional consequences of mitochondrial fission and fusion. Further chapters address mitochondria and oxidative stress and their roles in cell signalling and cell death. The book includes extensive, fascinating discussion of the biochemistry of mitochondrial cell signalling (especially involving calcium) and of oxidative stress. The nature of the proteins engaged in these processes, many only recently discovered, is covered in detail.

Mitochondria have been strongly implicated in neurodegenerative diseases such as Parkinson's, Huntington's and amyotrophic lateral sclerosis. They are also affected in cancer, ageing and cardiovascular disease. The final section of the book reviews mitochondrial mutations and their consequences in ageing and other phenotypic manifestations. The authors discuss how mitochondrial proteins might constitute important therapeutic targets and describe initial attempts to develop compounds that can regulate their function.

2007 ISBN: 978-0-470-06657-7 288 pp £80.00



# Cell & Molecular Biology

8

## Epithelial Anion Transport in Health and Disease:

### The Role of the SLC26 Transporters Family

Chair: MICHAEL WELSH, Howard Hughes Medical Institute, University of Iowa, USA

- Covers the mechanisms controlling the passage of chloride, sulphate, bicarbonate and oxalate ions across the cell membrane
- Focuses specifically on the recently discovered SLC26 transporter family
- Is pertinent to the study of diseases such as cystic fibrosis
- Contains discussions which identify new areas of research where data are urgently needed

2006 ISBN: 978-0-470-01624-4 284 pp £80.00

## Reversible Protein Acetylation

Chair: ERIC VERDIN, University of California San Francisco, USA

This book arises from the interactions of a multidisciplinary group of scientists involved in the study of acetylation. Work over the past five years is discussed in detail with an emphasis on major unanswered questions. This novel research opens up new and exciting possibilities for drug design. The reversible acetylation of histone on lysine residues has emerged as a major factor in the regulation of transcription in eukaryotes. All core histone proteins are acetylated and unique functional chromosomal domains are characterized by specific patterns of acetylation within their histone proteins. Functional correlations have been established between the level of acetylation of specific genes and their transcriptional activity. These complex signals are currently being elucidated in the context of the 'histone code hypothesis'. This model posits that distinct acetylation patterns in histones, along with other post-translational modifications, serve as specific signals recognized by the nuclear transcriptional machinery.

2004 ISBN: 978-0-470-86261-2 310 pp £80.00

## Stem Cells

### Nuclear Reprogramming and Therapeutic Applications

Chair: JOHN GEARHART, Johns Hopkins School of Medicine, Baltimore, USA

Many important ethical issues are raised by research on stem cells and these issues are dealt with in this book. General problems and concerns are discussed in detail, as are the various regulatory regimes that apply in different countries around the world. Ethical and regulatory issues are very important to scientists working in the field of stem cell research and are likely to be quite influential in the future in determining where stem cell research is carried out. This book pays particular attention to the factors that maintain stem cells in a pluripotent state or drive them to create differentiated and lineage-committed cells *in vitro* and *in vivo*.

Understanding stem cells at the molecular level is essential to understanding their behaviour in a physiological context. The book pays particular attention to the issue of nuclear reprogramming. This is the process by which a nucleus acquires developmental potential and is currently a focus of great interest in the scientific community. It is relevant both to stem cell research generally, and to research on the cloning of animals by nuclear transfer.

*"... a comprehensive overview of current issues in stem cell research, with contributions from leading figures..."*

BRITISH SOCIETY OF CELL BIOLOGY

*"This compact book is easy to read...[discussions] provide insights into the practice of science as a deeply human enterprise. I learned a great deal."*

DOODY'S HEALTH SERVICES

2005 ISBN: 978-0-470-09143-2 230 pp £80.00

## Signalling Pathways in Acute Oxygen Sensing

Chair: MICHAEL DUCHEN, University College London, UK

- Considers the controversial identity of the oxygen sensor common to all cells
- Encompasses the main players, NADPH oxidases, cytochrome p450 enzymes and mitochondria
- Discusses the involvement of ROS and complex III of the electron transport chain in oxygen sensing
- Covers the conceptual problems with mitochondrial inhibition in response to hypoxia
- Includes discussion of the roles of potassium channels, and calcium entry via L-type channels

Created from discussions between experts in oxygen sensing, this book hints at possible resolutions to the many controversial areas of research in this field.

2006 ISBN: 978-0-470-01457-8 300 pp £80.00

## Signalling Networks in Cell Shape and Motility

GARY BORISY, Northwestern Medical School, Chicago, USA

- Discusses the organizing principles behind cell shape change
- Covers the concept of 'master switches' within different cell types
- Explains how extracellular signals interpreted by the cell can activate intracellular processes
- Includes discussion on the role of the extracellular matrix in cell movement and internal signalling pathways
- Proposes mechanisms for the ways by which pathogens subvert cellular systems in order to stimulate or block their uptake

*"Vital for all oncology researchers and endocrinologists, in addition to cell biologists and instructors within these fields."*

ELECTRIC REVIEW

2005 ISBN: 978-0-470-01190-4 250 pp £80.00



## Nuclear Organization in Development and Disease

Chair: ROBERT D GOLDMAN, Northwestern University, Chicago, USA

This book draws together contributions from cell and developmental biologists, structural biologists, geneticists and clinical scientists.

Topics include:

- How nuclear structure and location within a nucleus affect gene expression
- Chromatin organization and cell differentiation
- The nature of the interactions between the nuclear envelope and the cytoskeleton
- The extent to which the cytoskeleton mediates communication between the cell membrane and nucleus in regulating gene expression and whether disruption of such communication might underlie disease processes

It is hoped that a better understanding of the mechanisms leading to disease pathogenesis may ultimately lead to more rational and appropriate treatments.

2005 ISBN: 978-0-470-09373-3 300 pp £80.00

## Molecular Clocks and Light Signalling

Chair: MICHAEL MENAKER, University of Virginia, Charlottesville, USA

Organisms ranging from the very simplest, unicellular species to humans share the molecular property of time-keeping. The primary hallmark of biological clocks is their ability to respond to environmental stimuli and the most important stimulus is natural light. Responses to light require light-sensitive photopigments but the exact identity of the molecules involved have remained elusive. This publication collects the current thinking of multidisciplinary experts worldwide on circadian clock research.

2003 ISBN: 978-0-470-85283-5 306 pp £80.00

**NEW**

## Understanding How Gene-Environment Interactions Work to Predict Disorder A Lifecourse Approach

Chair: SIR MICHAEL RUTTER, King's College London, UK

A major challenge confronting researchers is to understand how environmental risk factors generate the symptoms of a disordered mind or body. Early findings that identified single-gene causes of rare Mendelian conditions have proven difficult to extend more generally. The alternative gene-environment interaction approach assumes that environmental pathogens cause disorder, whereas genes influence susceptibility to environmental pathogens. This approach is based on two key observations: multifactorial disorders have known environmental causes; and people show heterogeneity in their response to those causes (i.e. not all people exposed succumb). Understanding who succumbs under what conditions will make personalized health-care a reality.

There are a number of methodological concerns that continue to plague genetic epidemiological research. This book analyzes the ways in which genetic epidemiologists can meet the challenges posed by concerns about: (1) the need for very large sample sizes in genetics research; (2) confounding by ethnic stratification; (3) confounding by gene-environment correlation; (4) difficulties of achieving precise and reliable measures of environmental exposure, particularly if exposure typically occurs over long times; (5) concerns about low prior probabilities of a true association between a disorder and any one of thousands of genetic polymorphisms; and (6) questions about how best to integrate experimental science with epidemiology. This is desirable because traditional genetic epidemiology cannot tell us much about the biological mechanisms involved in an interaction.

2008 ISBN10: 0-470-51901-0 300 pp £80.00

**NEW**

## Tinkering Mechanisms of Microevolution

Chair: DANIEL LIEBERMAN, Harvard University Cambridge, USA

Most evolutionary change at the population and species level consists of 'tinkering': small-scale alterations in developmental pathways within a single body plan. The key questions addressed in this book include:

- What is tinkering? How are the evolutionary developmental bases of microevolutionary events different from larger-scale macroevolutionary events?
- Are small-scale and large-scale evolutionary novelties created through similar or different mechanisms?
- On what hierarchical levels of development do tinkering changes occur?
- What are the genetic mechanisms by which tinkering occurs? Are tinkering events more likely to involve shifts in *cis*-regulatory elements, or in pattern/field specifying genes?
- How do epigenetic and epistatic pathways constrain or perhaps promote particular kinds of developmental shifts? How 'individuated' or integrated is tinkering?
- What is the role of tinkering in speciation events? And how does natural selection operate on developmental mechanisms?
- How do we test tinkering hypotheses using the fossil record?

2007 ISBN: 978-0-470-03429-3 304 pp £80.00



# Genetics

## The Genetics and Biology of Sex Determination

Chair: ROGER SHORT, Royal Women's Hospital, Melbourne, Australia

This book reviews recent advances in the understanding of the molecular genetic pathways of sex determination, with special emphasis on vertebrates. *Inter alia*, coverage includes the genetics and biochemistry of mammalian sex determination, comparisons with other modes of sex determination, and consideration of the biology of sexual development and of the evolution of sex-determining mechanisms. By bringing together an international and interdisciplinary group of experts whose work is focused on many different aspects of the problem, the book serves to identify and stimulate promising new research directions.

*"... The papers presented are of uniform high quality... this book is essential reading..."*

HUMAN GENETICS

2002 ISBN: 978-0-470-84346-8 276 pp £80.00

## Retinal Dystrophies

### Functional Genomics to Gene Therapy

Chair: SHOMI BHATTACHARYA, Institute of Ophthalmology, London, UK

Resulting from a meeting jointly organized by the Novartis Foundation and the Foundation Fighting Blindness, Baltimore, this book covers all aspects of retinal dystrophies from the molecular biology and developmental biology of these disorders through to possible therapeutic approaches, with special reference to gene therapy. Specific chapters deal with:

- The molecular genetics of gene therapies
- Clinical genetic studies, molecular and cellular mechanisms of the development of the disease
- Functional genomics of retinal diseases
- Animal models of retinal dystrophies, and
- Studies leading to gene therapeutic approaches to correcting the disorder

With contributions by many of the leading researchers, this book is an important milestone in this rapidly developing field.

2003 ISBN: 978-0-470-85357-3 226 pp £80.00

# Medicine & Health

**NEW**

## Fatty Acids and Lipotoxicity in Obesity and Diabetes

Chair: BRUCE SPIEGELMAN, Dana Farber Cancer Institute, Boston, USA

The potential lipotoxic effect of accumulation of fatty acids in non-adipose tissues is thought to be a major component in the development of insulin resistance. Chronic exposure to high concentrations of free fatty acids in the blood affects pancreatic  $\beta$  cell function, insulin secretion and lipid synthesis in the liver, and storage in adipose tissue. Maintaining the normal levels of fatty acids requires coordinated regulation between the liver, adipose tissue and skeletal muscle.

This book deals with the molecular aspects of fatty acid action in obesity and insulin resistance. The topics include lipid metabolism and adipose tissue biology, and  $\beta$  cell function and insulin resistance. Chapters deal with the molecular genetics and molecular physiology of energy homeostasis.

2007 ISBN: 978-0-470-05764-3 300 pp £80.00

**NEW**

## Dietary Supplements and Health

Chair: BARRY HALLIWELL, National University Graduate School for ISE, Singapore

- A systematic examination of the scientific data that are available and/or needed to substantiate and evaluate the safety and efficacy of dietary supplements. In many cases, marketing and usage changes have occurred without the benefit of a sound scientific basis for evaluating the safety and efficacy of these products under these new conditions of use
- Discussions identify improved approaches and research needs and ideas for enhancing the quality and relevance of the scientific evidence available for policy decisions

Dietary supplements are regulated in very different ways in different parts of the world. However, the scientific evidence needed to substantiate safety and efficacy for various purposes and for making recommendations about their use – for policymakers and consumers alike – ought to be the same.

2007 ISBN: 978-0-470-03427-9 288pp £80.00

**NEW**

## Heart Failure

### Molecules, Mechanisms and Therapeutic Targets

Chair: ERIC N. OLSON, UT Southwestern Medical Center at Dallas, USA

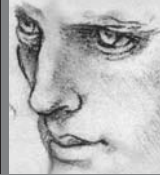
Heart failure is the main cause of death and disability in the industrialized world. Over recent years, dramatic progress has been made in unravelling the cellular circuitry involved in cardiac failure, as well as in normal cardiac growth, development and apoptosis. This work has revealed new and unexpected therapeutic targets in the heart. In addition, advances in understanding the role of stem cells in cardiac physiology have suggested strategies for cardiac repair and regeneration once thought impossible.

This book describes the work of leading investigators studying the basic mechanisms of cardiac growth, function and dysfunction. There are also exciting contributions from researchers developing novel therapeutic strategies for cardiac disease. The unique feature is the discussions amongst the contributors, which always return to the same basic problem: how can new data from biological studies be used to design novel therapies for the treatment of cardiac dysfunction following myocardial infarction, hypertension and other disorders?

*"This book offers an update in the basic mechanism of heart failure from the premier investigators in the field."*

DOODY'S HEALTH SERVICES

2006 ISBN: 978-0-470-01597-1 302 pp £80.00



## Tissue Engineering of Cartilage and Bone

Chair: **ARNOLD I CAPLAN**, Case Western Reserve University, Cleveland, USA

The key questions addressed in this book include:

- How good must cartilage repair be for it to be worthwhile?
- What is the best source of cells for tissue engineering of both bone and cartilage?
- Which are the most effective cell scaffolds?
- What are the best preclinical models for these technologies?
- When it comes to clinical trials, what sort of outcome measures should be used?

With contributions from some of the leading experts in this field, this timely publication will prove essential reading for anyone with an interest in the field of tissue engineering.

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*"... an excellent source of information... provides a valuable insight into the present and future strategies for bone and tissue engineering."*

ANNALS OF BIOMEDICAL ENGINEERING

2003 ISBN: 978-0-470-84481-6 262 pp £80.00

## Mucus Hypersecretion in Respiratory Disease

Chair: **CAROL BASBAUM**, University of California, San Francisco, USA

Topics covered include:

- Epidemiology
- Airways infection and mucus hypersecretion
- The genetics and regulation of mucus production
- Models of hypersecretion
- The implications of the new knowledge for the development of novel therapies

*"...I would recommend this book to both basic and clinical scientists..."*

EUROPEAN RESPIRATORY JOURNAL

2002 ISBN: 978-0-470-84478-6 302 pp £80.00

## Biology of IGF-1

Its Interaction with Insulin in Health and Malignant States

Chair: **DEREK LEROITH**, National Institutes of Health, Bethesda, USA

Insulin-like growth factor (IGF-1) is an anabolic effector hormone that has been linked with several types of malignancy, e.g. prostate cancer, ovarian cancer, and colon cancer. However, the nature of this relationship with cancer is uncertain and the linkage itself is controversial. The IGF-1 receptors and post-signalling pathways are similar to those of insulin in spite of differences in the biological actions of these hormones. Because of the similarities, insulin is often also considered when the link between IGF-1 and cancer is discussed. The interdisciplinary discussions between basic and clinical scientists focus on:

- The development of methods for early recognition of malignant states linked to IGF-1 and/or insulin
- Possible approaches to preventative intervention
- The development of novel therapeutic approaches to certain cancers

2004 ISBN: 978-0-470-86998-7 288pp £80.00

## Endocrine Facets of Ageing

Chair: **JOHANNES VELDHIJS**, University of Virginia Health System, Virginia, USA

- Reviews advances in the understanding of endocrine facets of ageing
- Considers the mechanisms of ageing and hormonal changes that occur with age
- Discusses healthy ageing and the relationships between hormonal changes and pathophysiological conditions such as atherosclerosis and age-related bone loss

*"... The Novartis Foundation should be congratulated for editing the very instructive discussion..."*

JOURNAL OF PEDIATRIC ENDOCRINOLOGY & METABOLISM

2002 ISBN: 978-0-471-48636-7 298 pp £80.00

**NEW**

## Acetaldehyde-Related Pathology

Bridging The Trans-Disciplinary Divide

Chair: **PETER EMERY**, King's College London, UK

Acetaldehyde contributes to pathologies ranging from cancer to asthma. It affects the whole body, the architecture of the cell and molecular control mechanisms. Significant amounts of acetaldehyde are also derived from cigarette smoke and alcohol, both of which are major contributors to disease globally.

Acetaldehyde has deleterious effects in the liver, brain and skeletal muscle. It has also been shown that bacteria can generate significant amounts of acetaldehyde in the gastrointestinal tract, thus contributing to carcinogenesis in this tissue. Many of the toxic effects of ethanol ingestion are mediated through acetaldehyde and there is increasing awareness that acetaldehyde is a principal disease-forming agent in tobacco-related illnesses.

This book features contributions from researchers working on all aspects of acetaldehyde-related pathology. From their expert accounts and the lively discussions accompanying each chapter, we can derive a better understanding of the pathogenesis of diseases in which acetaldehyde, from whichever source, is implicated.

2007 ISBN: 978-0-470-05766-7 304 pp £80.00



## Understanding Nicotine and Tobacco Addiction

Chair: WILLIAM CORRIGALL, Corrigan Consulting, Thornhill, Canada and Minneapolis Medical Research Foundation, USA

- Covers basic issues concerning the nature of the worldwide health problem posed by cigarette smoking
- Discusses the psychodynamics of cigarette addiction, developing understanding of the basic pharmacology and biochemistry of nicotine and its effect on the brain
- Analyses data on genetic factors in the susceptibility to nicotine addiction
- Covers various approaches to therapy and how best to treat nicotine addiction, given that many smokers would like to stop smoking but are unable to do so because of their addiction

2006 ISBN: 978-0-470-01657-2 284pp £80.00

**NEW**

## Cortical Development Genes and Genetic Abnormalities

Chair: JOHN PARNAVELAS, University College London, UK

To understand the brain and its devastating diseases, we need to understand the mechanisms that produce it and the ways in which it changes throughout a lifetime. This book features a timely and insightful discussion between developmental neurobiologists and clinicians who deal with disorders of the nervous system.

Chapters deal specifically with cell fate determination, cell migration and disorders of cell migration; current concepts and new ideas about cortical arealisation, and disorders which can arise from incorrect arealisation; genes implicated in the development of cortical connectivity and related pathologies such as schizophrenia and synaesthesia; and susceptibility genes for cognitive disorders such as schizophrenia, autism, dyslexia, and attention deficit disorder.

2008 ISBN: 978-0-470-06092-6 300 pp £80.00

**NEW**

## Growth Factors and Psychiatric Disorders

Chair: MOSES V CHAO, Skirball Institute of Biomolecular Medicine, New York, USA

The recent identification of susceptibility genes for schizophrenia, depression and learning and memory dysfunction suggest that psychiatric disorders may be influenced by a small number of genes with multiple actions. This is the first book to investigate the role of growth factors in these disorders, which should provide clues to the underlying biochemical mechanisms. For example, recent studies have substantiated the provocative finding that *neuregulin 1 (NRG1)* is a candidate gene for schizophrenia. Neuregulin and its receptors, the ErbB tyrosine kinases, are essential for development of the cardiovascular and nervous systems. Lack of NRG1 function may be involved in dysregulation of synaptogenesis and synaptic plasticity in the adult mediated through glutamate receptor function. Polymorphisms for BDNF (brain-derived neurotrophic factor) have also been implicated in the pathogenesis of schizophrenia. BDNF is a prevalent neurotrophic factor that plays an important role in the pathophysiology of depression, bipolar disease and other psychiatric disorders. Other topics addressed in this book include neuroplasticity and neurotrophic factors, signal transduction by neurotrophins, intracellular trafficking of growth factors, trophic factors and cognitive functions, neurotrophins and depression, and pharmacological treatments of schizophrenia.

2008 ISBN: 978-0-470-51604-1 300 pp £80.00

## Purinergic Signalling in Neuron-Glia Interactions

Chair: R DOUGLAS FIELDS, Nervous System Development, & Plasticity Section, National Institutes of Health, Bethesda, USA

- Opens with overviews of the evolution and differentiation of glia and of purinergic signalling
- Reviews purine release, receptors and reagents, purinergic signalling in the neural control of glial development, glial involvement in information processing, and the interactions between neurons and microglia
- Covers purinergic signalling, including ion channel function, cytoskeletal dynamics, gene expression, secretion, cell proliferation, differentiation and cell death
- Discusses ATP as an important cell-cell signalling molecule for a wide variety of cells across evolutionarily diverse organisms
- Includes contributions from glial biologists, neurobiologists and specialists in purinergic receptor structure and pharmacology

2006 ISBN: 978-0-470-01860-6 302 pp £80.00

## Molecular Mechanisms Influencing Aggressive Behaviours

Chair: DONALD PFAFF, Rockefeller University, New York, USA

- Features insights into the neuroanatomy and related neuropharmacology of aggressive behaviours
- Details the use of new molecular genetic techniques to explore mechanisms of aggression in novel ways
- Presents data on sex differences in aggression and related hormonal effects, specific genes for neurotransmitters, neuropeptides, and nitric oxide
- Discusses the implications of animal studies on aggression for understanding human behaviour

*"This is an excellent review of the current state of neurobiological research on aggression... should be essential reading for any scientist working in the field."*

DOODY'S HEALTH SERVICES

2005 ISBN: 978-0-470-01068-6 272 pp £80.00



## Autism

### Neural Basis and Treatment Possibilities

Chair: MICHAEL RUTTER, Institute of Psychiatry, London, UK

Twin and family studies indicate that the heritability for the underlying liability to autism exceeds 90% and these studies point to a multifactorial causation involving a relatively small number of susceptibility genes. The book discusses this issue in detail, along with the problem of why some additional symptoms are associated with autism while others are not. This book:

- Contains data on imaging studies showing the contributions of different brain regions to autism and includes neuropathological data and examines the neuropharmacology of autism
- Includes considerable discussion on the fundamental psychological deficit in children with autism. There is good evidence that "Theory of Mind" deficits are associated with autism and this issue is examined in detail, as are other competing possibilities
- Covers data on possible psychological or psychiatric interventions for rehabilitation of children with autism. Drug treatments have generally been disappointing in this field and there is one chapter devoted specifically to this problem. The book focuses ultimately on intervention studies and so is of practical relevance to people interested in helping autistic children.

*"... well-structured and an easy read - essential for professionals, academics and students who are interested in autism and its treatment..."*

THE PSYCHOLOGIST

2003 ISBN: 978-0-470-85099-2 320 pp £80.00

**NEW**

## Empathy and Fairness

Chair: CHRIS FRITH, University College London, UK

Empathy broadly refers to the process that allows us to feel for others; to share the feelings and emotions of others, in the absence of any direct emotional stimulation to the self.

- Approaches the topic of empathy and fairness from different viewpoints; social cognitive neuroscience, developmental psychology, evolutionary anthropology, economics, and neuropathology.
- Presents an interdisciplinary and unitary framework, focussed on the neuronal, developmental, evolutionary and psychological basis of empathy and fairness.
- Asks:
  - What do we mean when we speak of empathy and fairness in contrast to theory of mind, perspective taking or moral reasoning? When does our ability to empathize develop? When does the concept of fairness develop? Do we have evidence for the presence of empathy and sense of fairness in monkeys, or are these abilities purely human? Do monkeys possess all forms of empathic responses or only very primitive ones such as emotional transfer?

2006 ISBN: 978-0-470-02626-7 240 pp £80.00

## Percept, Decision, Action Bridging the gaps

Chair: RANULFO ROMO, Instituto de Fisiologia Celular, Universidad Nacional Autonoma de Mexico, Mexico

- Addresses how the brain uses sensory information to develop and decide upon the appropriate action and how the brain determines the appropriate action to optimize the collection of new sensory information
- Discusses how percepts are built up in cortex and how judgments of the percept are made
- Reviews how decisions made about the percept are subsequently acted upon
- Covers the interaction between the predicted or expected sensation and actual incoming flow of sensory signals

2006 ISBN: 978-0-470-01233-8 314 pp £80.00

## Drug Resistance in Epilepsy Lessons from Oncology

Chair: VICTOR LING, BC Cancer Agency, Vancouver, Canada

Around 30% of patients diagnosed as having epilepsy fail to respond to prescribed antiepileptic drugs and continue to have seizures. This book gathers workers in the fields of epilepsy, those concerned with the basic science of resistance and the blood-brain barrier, and those with clinical experience of drug resistance in cancer, with a view to stimulating further work on drug resistance in epilepsy.

2002 ISBN: 978-0-470-84146-4 254 pp £80.00

## Ion Channels

### From Atomic Resolution Physiology to Functional Genomics

Chair: FRANCES ASHCROFT, University of Oxford, UK

An increasing number of diseases including many human neurological and muscular disorders are associated with ion channel dysfunction. This book

- Characterizes a systematic exploration of ion channels from atomic resolution studies through to functional genomics
- Summarizes an interdisciplinary meeting of structural biologists, mathematical theoreticians and physiologists who study ion function
- Gives an overview of current molecular studies of ion channels

*"...I would particularly recommend it to students who wish to gain a flavour of the discussions, disputes and personalities within this field..."*

THE BIOCHEMIST

2002 ISBN: 978-0-470-84375-8 284 pp £80.00



# Pharmacology

# Physiology

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## Mammalian TRP Channels as Molecular Targets

Chair: JAMES W PUTNEY, National Institutes of Health, Bethesda, USA

This book brings together contributions from key investigators in the area of TRP channel structure and function. The book includes coverage of:

- The structure of mammalian TRP channels
- The function of TRP channels
- Regulation of TRP channels
- Mechanisms of signal transduction

The discussions serve to delineate future directions towards a better understanding of the role of TRP channels in normal cellular physiology, the involvement of TRP channels in disease states, and their potential use as molecular targets for novel therapeutic agents.

2004 ISBN: 978-0-470-86254-4 286 pp £80.00

## The hERG Cardiac Potassium Channel

Structure, Function and Long QT Syndrome

Chair: MICHAEL C SANGUINETTI, University of Utah, USA

This book discusses in detail:

- The role of the hERG cardiac potassium channel in long QT syndrome
- The relevance of hERG to drug development
- The structure and function of this ion channel
- The regulatory authority perspectives aimed at a better understanding of hERG channel structure and function

2005 ISBN: 978-0-470-02140-8 308 pp £80.00

## Pathological Pain

From Molecular to Clinical Aspects

Chair: TAKAO KUMAZAWA, Aichi Medical University, Japan

The book includes coverage of:

- The molecular basis of receptors and channels involved in nociception
- The possible messages that cause neuropathic plasticity
- Spinal plasticity in neuropathy
- Plastic changes in opioid systems in neuropathy and opioid tolerance
- Plastic changes related to pathological pain

In evolutionary terms, the pain system emerged at a very early stage of neuronal development since alarm and defence systems are fundamental to life. These early origins are characterized by the considerable plasticity of the system allowing great potential for transformation, by an intimate relationship with instinctive and other fundamental bodily functions such as the autonomic nervous system and posture regulation, and a high degree of involvement of humoral signalling messengers, since these signalling systems are inherited from aboriginal defence systems such as those implicated in immunity and inflammation.

*"... an excellent book to review the electrophysiological and molecular aspects of pathological pain... of great value to both basic scientists and clinicians."*

ANNALS OF NEUROLOGY

2004 ISBN: 978-0-470-86910-9 282 pp £80.00

## Role of the Sarcoplasmic Reticulum in Smooth Muscle

Chair: DAVID EISNER, The University of Manchester, UK

This book explores the latest research on the role of the sarcoplasmic reticulum (SR) in smooth muscle function. It examines the control and modulation of the SR and how this may vary among smooth muscle types. Potential therapeutic implications are also discussed. This book:

- Discusses new and exciting work in this area and identifies promising new research directions
- Considers the advances in this relatively unexplored field, offering new insights into the role of the SR in smooth muscle
- Brings together contributions from key workers, both in basic and clinical science, whose studies range from physiological to pathological and molecular to whole animal

2002 ISBN: 978-0-470-84479-3 296 pp £80.00

## Osteoarthritic Joint Pain

Chair: DAVID FELSON, Boston University School of Medicine, USA

This book brings together contributions from key investigators in the area of osteoarthritic (OA) joint pain. Coverage includes:

- The clinical presentation of joint pain
- The pathways involved in joint pain
- OA disease processes and pain
- Experimental models and pain control

The discussions provide insights into the nature of OA joint pain, identify key studies needed to advance understanding, highlight possible intervention points and serve to delineate future directions towards a better treatment of OA joint pain.

2004 ISBN: 978-0-470-86761-7 302 pp £80.00

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