

Current Topics in Microbiology and Immunology

Eds.: R.W. Compans; M. Cooper; Y. Ito; H. Koprowski; F. Melchers; M. Oldstone; S. Olsnes; M. Potter; P.K. Vogt; H. Wagner

Volume 281

J. A.T. Young, University of Wisconsin-Madison, USA (Ed.)

Cellular Factors Involved in Early Steps of Retroviral Replication

Contents

- HIV-1 entry and its inhibition
- Cell surface receptors for gamma-retroviruses
- Alpharetrovirus envelope-receptor interactions
- Targeting retroviral and lentiviral vectors
- Intracellular trafficking of HIV-1 cores: journey to the center of the cell
- The roles of cellular factors in retroviral integration
- Subject index

The articles in this volume provide a comprehensive overview of our current understanding of the roles played by cellular factors in the early steps of retroviral replication. A better understanding of these functions will provide critical new insights into retrovirus-host cell interactions and is likely to prove useful for the future development of effective antiretroviral therapies.

Field of interest

Medical Microbiology

Target groups

Researchers and scientists in the field of virology

Type of publication

Monograph

Due July 2003

2003. Approx. 190 p. 22 illus., 5 in color. Hardcover
€ 99,95; £ 70,00
ISBN 3-540-00844-6



9 783540 008446

Current Topics in Microbiology and Immunology

Eds.: R.W. Compans; M. Cooper; Y. Ito; H. Koprowski; F. Melchers; M. Oldstone; S. Olsnes; M. Potter; P.K. Vogt; H. Wagner

Volume 282

H. Stenmark, The Norwegian Radium Hospital, Oslo, Norway (Ed.)

Phosphoinositides in Subcellular Targeting and Enzyme Activation

Contents

- Preface
- Phosphoinositide involvement in phagocytosis and phagosome maturation
- Regulation of endocytosis by phosphatidylinositol 4,5-bisphosphate and ENTH proteins
- Membrane targeting by pleckstrin homology (PH) domains
- Protein targeting to endosomes and phagosomes via FYVE and PX domains
- Regulation of the actin cytoskeleton by PI(4,5)P₂ and PI(3,4,5)P₃
- Roles of PI3K in neutrophil function
- Nuclear phosphoinositides and their functions
- Subject index

Cells of the immune system are activated by a variety of stimuli that are derived from other cells, ingested material or from invading microorganisms. This issue of CTMI focuses on the mechanisms of phosphoinositide-mediated protein recruitment to intracellular membranes.

Field of interest

Immunology

Target groups

Researchers and scientists in the fields of cell biology and immunology

Type of publication

Monograph

Due September 2003

2003. Approx. 160 p. 24 illus. 8 in color. Hardcover
€ 99,95; £ 70,00
ISBN 3-540-00950-7



9 783540 009507

T. Heida, University of Twente, Enschede, The Netherlands

Electric Field-Induced Effects on Neuronal Cell Biology Accompanying Dielectrophoretic Trapping

Contents

Introduction.- Neuro-electronic interfacing.- Culturing neuronal cells.- Positioning and culturing neuronal cells on a micro-electrode array.- Dielectrophoresis.- Scope of this review.- **Dielectrophoretic trapping of neuronal cells.**- Theory.- Materials.- Theoretical description of dielectrophoretic trapping.- Experimental description of dielectrophoretic trapping.- **Exposing neuronal cells to electric fields.**- Theory.- Theoretical investigation of induced membrane potentials of neuronal cells.- Experimental investigation of neuronal membrane breakdown.- **Investigating viability of dielectrophoretically trapped neuronal cells.**- Viability of neuronal cells trapped at a high frequency.- Viability of neuronal cells trapped at low frequencies.- Recording neuronal activity.- **Summary.- References.- Subject Index.**

Trapping neuronal cells may aid in the creation of the cultured neuron probe. The aim of the development of this probe is the creation of the interface between neuronal cells or tissues in human body and electrodes that can be used to stimulate nerves in the body by an external electrical signal in a very selective way. In this way, functions that were (partially) lost due to nervous system injury or decease may be restored.

Field of interest

Neurosciences

Target groups

Scientists in the field neurology

Type of publication

Monograph

Due June 2003

Advances in Anatomy, Embryology and Cell Biology.

Eds.: F. Beck; B. Christ; W. Kriz; W. Kummer; E. Marani; R. Putz; Y. Sano; T.H. Schiebler; K. Zilles. **Vol. 173**

2003. IX, 80 p. 53 illus. Softcover
€ 84,95; £ 59,50
ISBN 3-540-00637-0



9 783540 006370

A. Kaneko, Keio University School of Medicine, Tokyo, Japan (Ed.)

The Neural Basis of Early Vision

Features

- Covers the recent neuroscientific studies of vision, and includes physiological, cell biological, molecular, mathematical and clinical approaches

Researchers in recent decades have elucidated signal transduction in the retina and the function of the visual cortex. The highly flexible nature of neural circuits in the visual cortex especially during the critical period has been an interesting subject for studying neural plasticity and development. Recent advances in the visual neurosciences of the vertebrate retina and the visual cortex were discussed during the 12th Keio International Symposium for Life Science and Medicine, meeting jointly with Vision Forum 2002. Contributions to the symposium collected in this volume reflect the convergence of physiological, cell biological, molecular, mathematical, and clinical approaches. The book covers topics ranging from photo-transduction to visual information processing in the primary visual cortex, and includes clinical studies on hereditary night blindness, creating a valuable source of information for researchers and clinicians in the visual neurosciences.

Field of interest

Neurosciences

Target groups

Libraries, researchers

Type of publication

Proceedings

Due June 2003

Keio University International Symposia for Life Sciences and Medicine. Vol. 11

2003. XVIII, 245 p. 65 illus. 10 in color.
Hardcover
€ 129,00; £ 90,50
ISBN 4-431-00459-9



9 784431 004592

G. Molineux; S. Elliott; M. A. Foote, Amgen Inc., Thousand Oaks, CA, USA (Eds.)

Erythropoietins and Erythropoiesis

Molecular, Cellular, Preclinical, and Clinical Biology

Contents

I. Background and basic science.- Erythropoiesis: an overview. Studies of erythropoiesis and the discovery and cloning of recombinant human erythropoietin. Structural basis for the signal transduction of erythropoietin. Molecular biology of the erythropoietin receptor in hematopoietic and non-hematopoietic tissues. Erythropoietin receptor signaling processes. Clinical pharmacokinetic properties of rHuEPO: a review. Biology of erythropoietin. Commercial production of recombinant erythropoietins.- II. Clinical use of recombinant erythropoietins.- Use of recombinant erythropoietins in the setting of renal disease. Erythropoietic therapy in the practice of oncology. Use of recombinant erythropoietins for the treatment of anemia of chronic disease. Use of erythropoietins in the surgical setting. Abuse of recombinant erythropoietins by athletes. Antibodies to endogenous and recombinant erythropoietin. New molecules and formulations of recombinant human erythropoietin.- Glossary of terms and abbreviations.- Index.

Features

- Covers background and basic science as well as clinical uses of recombinant erythropoietins
- Also of interest to clinicians in sports medicine
- Glossary of terms and abbreviations

Field of interest

Pharmacology/Toxicology

Target groups

Researchers and clinicians, pharmaceutical industry, biotech industry, scientific libraries

Type of publication

Monograph

Birkhäuser 

Due July 2003

Milestones in Drug Therapy.
Eds.: M.J. Parnham; J. Bruinvels

2003. Approx. 280 p. Hardcover
€ 128,00; £ 89,50
ISBN 3-7643-6919-1



9 783764 369194

Reviews of Physiology, Biochemistry, and Pharmacology

Eds.: S.G. Amara; E. Bamberg; M.P. Blaustein; H. Grunicke; R. Jahn; W.J. Lederer; A. Miyajima; H. Murer; N. Pfanner; G. Schultz; M. Schweiger; S. Offermanns

Volume 147

Reviews of Physiology, Biochemistry and Pharmacology

With contributions by R. Hogg; M. Raggenbass; D. Bertrand; O. Richter; B. Ludwig; J. Eckert; R. Erdmann; C. Andersen

Contents

- Nicotinic Acetylcholine Receptors: From Structure to Brain Function
- Cytochrome c Oxidase - Structure, Function, and Physiology of a Redox-Driven Molecular Machine
- Peroxisome Biogenesis
- Outer Membrane Components of Type I Secretion Systems and Multi-drug Efflux Pumps of Gram-Negative Bacteria

Field of interest

Biomedicine general

Target groups

Researchers and scientists in the fields of physiology, biochemistry and biotechnology

Type of publication

Monograph

Due June 2003

2003. IV, 166 p. 30 illus. 9 in color
Hardcover
€ 119,95; £ 84,00
ISBN 3-540-01365-2



9 783540 013652

G.M. Rubanyi, Berlex Biosciences, USA;
S. Ylä-Herttua, University of Kuopio,
Finland (Eds.)

Human Gene Therapy

Present Opportunities and
Future Trends

Contents

G. Nabel: The Future of Gene Therapy;
S. Ylä-Herttua: Angiogenesis Clinical
Trials; R.J. Samulski: AAV-Vectors, the
Future Workhorse of Human Gene
Therapy; J.A. Wolff: Non-Viral Vectors
for Cardiovascular Gene Delivery;
M. Watkins: Initial Clinical Results
with Intra-Coronary Administration of
AD5FGF-4 in Patients with Myocardial
Ischemia; G. Nabel: Cancer Gene Therapy;
D. Kirn: Oncolytic Virotherapy as a
Novel Treatment Platform for Cancer;
L. Seymour: Adenovirus Retargeting
and Systemic Delivery; H. Federoff:
CNS Diseases Amenable to Gene Therapy;
G. Karpati: Molecular Therapies for the
Nervous System and Muscle; S. Kingsman:
Lentivirus: A Vector for Nervous System
Applications; T. Asahara: Endothelial
Progenitor Cells for Neovascularization;
B. Sullenger: Therapeutic Aptamers and
Antidotes; J.L. Nordstrom: Plasmid-Based
Gene Transfer and Antiprogestin-
Controllable Transgene Expression.

Advances in genetics, molecular biology and gene delivery technologies in recent years have led to new gene therapy strategies for treatment of a variety of diseases. This book gives a comprehensive overview of the present status and future directions of gene delivery systems and therapeutic strategies for the clinical application of gene therapy in cancer, cardiovascular and central nervous system diseases. Stem cell-based therapies and gene expression regulatory systems as novel platform technologies for various gene therapy applications are also discussed.

Field of interest

Medicine, general

Target groups

Cardiologists, oncologists, neurologists,
molecular biologists, virologists

Type of publication

Proceedings

Due July 2003

**Ernst Schering Research Foundation
Workshop.** Eds.: G. Stock; M. Lessl. Vol. 43

2003. XV, 256 p. 41 illus. 8 in color

Hardcover

€ 74,95; £ 52,50

ISBN 3-540-00413-0



9 783540 004134

Article Literature Review (PDF Available) in Current topics in microbiology and immunology 322:249-89 February 2008 with 3,382 Reads. How we measure 'reads'. A 'read' is counted each time someone views a publication summary (such as the title, abstract, and list of authors), clicks on a figure, or views or downloads the full-text. Mechanistic studies in clinical microbiology and immunology have elucidated infection pathways in the human and other animal bodies leading to diagnostic and treatment solutions. Therefore, understanding DEC behaviour in the agricultural and food production environment is crucial for ensuring food safety and public health by reducing the burden of foodborne illnesses. Start by marking "Current Topics in Microbiology and Immunology: Ergebnisse Der Mikrobiologie Und Immunitätsforschung" as Want to Read: Want to Read saving! Want to Read. Currently Reading. Read. Current Topics in Micr by Werner Arber. Other editions. Want to Read saving! Error rating book. Refresh and try again. Rate this book. Clear rating. Let us know what's wrong with this preview of Current Topics in Microbiology and Immunology by Werner Arber. Problem: It's the wrong book It's the wrong edition Other. CTMI is an acronym for Current Topics in Microbiology and Immunology. Questions. What most visitors search for before coming to this page. What does CTMI stand for? CTMI stands for "Current Topics in Microbiology and Immunology". How to abbreviate Current Topics in Microbiology and Immunology? Current Topics in Microbiology and Immunology can be abbreviated as CTMI. What is CTMI abbreviation? All Acronyms. 2019. CTMI - Current Topics in Microbiology and Immunology. Retrieved July 1, 2019, from https://www.allacronyms.com/CTMI/Current_Topics_in_Microbiology_and_Immunology. Chicago. All Acronyms.