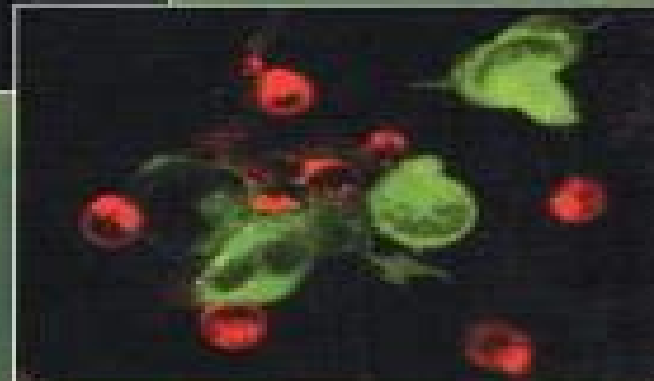
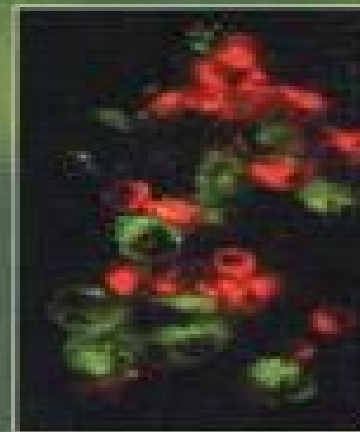
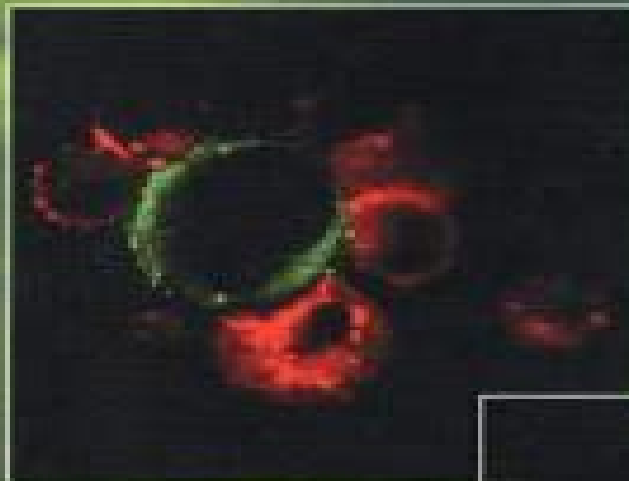


K. Kärre and M. Colonna (Eds.)

Specificity, Function, and Development of NK Cells

NK Cells: The Effector Arm
of Innate Immunity



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Cell Surface Carbohydrates and Cell Development Minoru Fukuda, 2024-12-20 Cell Surface Carbohydrates and Cell Development summarizes knowledge on the structure and function of cell surface carbohydrates in development and differentiation. The chapters include reviews on the expression of cell type specific carbohydrates and their roles in cell-cell interaction. In particular, the role of cell surface carbohydrates in immune cell response, malignant transformation, fertilization, and neural cell development are addressed. This includes the exciting discovery about the role of adhesive molecules in leukocyte endothelium interaction. Cell Surface Carbohydrates and Cell Development also summarizes the latest knowledge on structure and biosynthesis of carbohydrates, the role of specific carbohydrate modification, and animal lectins. The book will be useful to researchers and students interested in the biology of glycoproteins and biotechnology. **Development of**

Neural Circuitry, 2009-05-07 The nervous system is highly complex both in its structural order and in its ability to perform the many functions required for survival and interaction with the environment. Understanding how it develops has proven to be one of the greatest challenges in biology. Such precision demands that key events at every developmental stage are executed properly and are coordinated to produce the circuitry underlying each of the adult nervous system's functions. This volume describes the latest research on the cellular and molecular mechanisms of neural circuitry development while providing researchers with a one-stop overview and synthesis of contemporary thought in the area. Reviews current research findings on the development of neural circuitry, providing researchers with an overview and synthesis of the latest contemporary thought in the cellular and molecular mechanisms that underlie the development of neural circuitry. Includes chapters discussing topics such as the guidance of nerve growth and the formation of plasticity of synapses, helping researchers better understand underlying mechanisms of neural circuit development and maintenance that may play a role in such human diseases/conditions as depression, anxiety, and pain. Chapters make use of a variety of human and animal models, allowing researchers to compare and contrast neural circuitry development across a wide spectrum of models.

CD4+CD25+ Regulatory T Cells: Origin, Function and Therapeutic Potential B. Kyewski, Elisabeth Suri-Payer, 2006-01-09 The vertebrate immune system defends the organism against invading pathogens while at the same time being self-tolerant to the body's own constituents, thus preserving its integrity. Multiple mechanisms work in concert to ensure self-tolerance. Apart from purging the T cell repertoire from auto-reactive T cells via negative selection in the thymus, dominant tolerance exerted by regulatory T cells plays a major role in tolerance imposition and maintenance. Among the various regulatory suppressive cells hitherto described, CD4⁺CD25⁺ regulatory T cells (Treg) and interleukin 10-producing T regulatory 1 (Tr1) cells have been studied in most detail and are the subject of most articles in this issue. Treg, also called natural regulatory T cells, will be traced from their intra-thymic origin to the site of their action in peripheral lymphoid organs and tissues. The repertoire of Treg is clearly biased towards recognition of self-antigens, thereby potentially preventing

autoimmune diseases such as gastritis and oophoritis Regulatory T cells however also control infections allergies and tolerance to transplanted tissues and this requires their induction in the periphery under conditions which are not yet fully understood The concept of dominant tolerance by far not novel will offer new insights and hopefully tools for the successful treatment of autoimmune diseases improved cancer immunotherapy and transplant survival The fulfillment of these high expectations will however require their unambiguous identification and a better understanding of their mode of action

Development of executive function during childhood Yusuke Moriguchi, Philip D Zelazo, Nicolas Chevalier, 2016-04-01 Executive function refers to the goal oriented regulation of one's own thoughts actions and emotions Its importance is attested by its contribution to the development of other cognitive skills e.g. theory of mind social abilities e.g. peer interactions and academic achievement e.g. mathematics and by the consequences of deficits in executive function which are observed in wide range of developmental disorders such as attention deficit hyperactivity disorder and autism Over the last decade there have been growing interest in the development of executive function and an expanding body of research has shown that executive function develops rapidly during the preschool years with adult level performance being achieved during adolescence or later This recent work together with experimental research showing the effects of interventions targeting executive function has yielded important insights into the neurocognitive processes underlying executive function Given the complexity of the construct of executive function however and the multiplicity of underlying processes there are often inconsistencies in the way that executive function is defined and studied This inconsistency has hampered communication among researchers from various fields This Research Topic is intended to bridge this gap and provide an opportunity for researchers from different perspectives to discuss recent advances in understanding childhood executive function Researchers using various methods including behavioral experiments neuroimaging eye tracking computer simulation observational methods and questionnaires are encouraged to contribute original empirical research In addition to original empirical articles theoretical reviews and opinions perspective articles on promising future directions are welcome We hope that researchers from different areas such as developmental psychology educational psychology experimental psychology neuropsychology neuroscience psychiatry computational science etc will be represented in the Research Topic

Frontier and Future Development of Information Technology in Medicine and Education Shaozi Li, Qun Jin, Xiaohong Jiang, James J. (Jong Hyuk) Park, 2013-12-05 IT changes everyday's life especially in education and medicine The goal of ITME 2013 is to further explore the theoretical and practical issues of IT in education and medicine It also aims to foster new ideas and collaboration between researchers and practitioners

Molecular mechanisms of glutamatergic synapse function and dysfunction Dhrubajyoti Chowdhury, James P. Clement, Argel Aguilar-Valles, 2022-12-22

Early Experience and Human Development Theodore D. Wachs, Gerald E. Gruen, 2012-12-06 Our goal in writing this book was to fill a perceived gap in the early experience literature Most existing volumes on early experience and development can be

dichotomized on a basic versus an applied dimension Volumes falling on the basic side are designed for researchers and theoreticians in the biomedical and behavioral sciences Most existing basic volumes are either primarily based on infrahuman data or are based on single major human studies In going over these volumes we are not convinced of the generality of infrahuman data to the human level in addition we were concerned about the replicability of findings from single studies however well designed these studies were As a result the relevance of data from these volumes to applied human problems is quite limited In contrast volumes falling on the applied side are designed primarily for those involved in intervention work with infants and young children These applied books generally tend to be vague and nonempirical compilations of the views of experts and the collective wisdom of the ages Rarely in applied volumes do we find conclusions based on solid consistent empirical findings

The Development of the Sarcoplasmic Reticulum Anthony Martonosi, 2000-08-07 Sarcoplasmic reticulum is a form of endoplasmic reticulum found in large quantities in mature muscle cells Anthony Martonosi presents general information about the development and function of the sarcoplasmic reticulum within a framework of contemporary research on the molecular biology of biosynthetic and signaling processes Focusing on the development

Cellular Membranes in Development Michael Locke, 2012-12-02 Cellular Membranes in Development covers the proceedings of the 1963 22nd Symposium on The Society for the Study of Development and Growth held in Storrs Connecticut This book is organized into 10 chapters that discuss the properties isolation function composition and physiological aspects of membranes After briefly dealing with the principles of the unit membrane concept the book describes the properties of lipid membranes of bilayer thickness with biological relevance The next chapter focuses on hepatic cell and the modifications of the endoplasmic reticulum in cell differentiation in normal and cancerous growth Another chapter describes the developmental changes in a particular experimental systems and the modification of the membranes by specific treatments using the apical portion of the primary root of Zea mays The book also discusses the role of the different organelles in development supporting the idea of topological continuity between the membranes of all the organelles except the mitochondria Other chapters describe the cytology of oogenesis and fertilization in Pteridium aquilinum the early events of fertilization in Hydroides and Saccoglossus and the composition of cell walls of bacteria yeast and fungi Some aspects of the capsules microcapsules and sheaths exhibited by some microorganisms are also covered The last chapters deal with the quantitative aspects of plant cell permeation and permeability function and changes in relation to maturation and growth hormones The book is an ideal source for cell biologists and researchers evolutionists and biochemists

Synapse Development and Maturation Pasko Rakic, John Rubenstein, Bin Chen, Kenneth Y. Kwan, 2020-05-29 Synapse Development and Maturation the latest release in the Comprehensive Developmental Neuroscience series presents the latest information on the genetic molecular and cellular mechanisms of neural development The book provides a much needed update that underscores the latest research in this rapidly evolving field with new section editors discussing the

technological advances that are enabling the pursuit of new research on brain development This volume focuses on the synaptogenesis and developmental sequences in the maturation of intrinsic and synapse driven patterns Features leading experts in various subfields as section editors and article authors Presents articles that have been peer reviewed to ensure accuracy thoroughness and scholarship Includes coverage of mechanisms which regulate synapse formation and maintenance during development Covers neural activity from cell intrinsic maturation to early correlated patterns of activity

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