

Carbohydrate Recognition In Cellular Function

Paul R. Crocker



Carbohydrate Recognition In Cellular Function:

Carbohydrate Recognition in Cellular Function Gregory R. Bock, Sara Harnett, 2008-04-30 Contributors to this volume explore the role of carbohydrates in communication between cells of multicellular organisms Topics covered include the thermodynamics and spatial restrictions of oligosaccharide protein interactions the role of carbohydrates in recognition and as components of cell adhesion molecules and abnormal glycosylation in several disease states *Carbohydrate Recognition in Cellular Function* CIBA Foundation Symposium, 1989-09-04 Contributors to this volume explore the role of carbohydrates in communication between cells of multicellular organisms Topics covered include the thermodynamics and spatial restrictions of oligosaccharide protein interactions the role of carbohydrates in recognition and as components of cell adhesion molecules and abnormal glycosylation in several disease states **Carbohydrate Recognition in Cellular Function** Gregory Bock, Sara Harnett, 1989-09-04 Contributors to this volume explore the role of carbohydrates in communication between cells of multicellular organisms Topics covered include the thermodynamics and spatial restrictions of oligosaccharide protein interactions the role of carbohydrates in recognition and as components of cell adhesion molecules and abnormal glycosylation in several disease states **Carbohydrate Recognition** Binghe Wang, Geert-Jan Boons, 2011-09-09 This book contains contributions from interdisciplinary scientists to collectively address the issue of targeting carbohydrate recognition for the development of novel therapeutic and diagnostic agents The book covers 1 biological problems involving carbohydrate recognition 2 structural factors mediating carbohydrate recognition 3 design and synthesis of lectin mimics that recognize carbohydrate ligands with high specificity and affinity and 4 modulation of biological and pathological processes through carbohydrate recognition **The Role of Glycans in Immune Cell Functions** Jasmeen S. Merzaban, Monica M. Burdick, Charles J. Dimitroff, 2020-05-26 Glycans represent a major constituency of post translational modifications that occur on most if not all proteins Whether on mammalian or invertebrate cell surfaces they exist as sugar chain moieties designed from the exquisite and coordinated activity of cell specific glycosylation Some of the more common glycan structures are linked to cell surface polypeptides via an asparagine N linked residue or a serine threonine O linked residue along with a notable contingent found linked to ceramides in the lipid bilayer known as glycosphingolipids These glycans can associate with complementary glycan binding proteins GBP or lectins to mediate and translate this carbohydrate recognition to cell function In immunity there is increasing evidence that precise immune cell glycans are recognized by corresponding GBPs in a cell intrinsic or extrinsic manner Unique carbohydrate recognition domains within GBPs are comprised of precisely spaced amino acid functional groups that allow for selective engagement of a particular glycan target This structure function relationship is present in immune signaling pathways whereby glycans and GBPs on the surface of immune cells and non immune cells help control processes such as immune cell activation recognition of pathogens suppression and tissue specific migration The diversity of glycan structures and glycosylation among individual

immune cell subsets is controlled by the expression of genes involved in glycan biosynthesis including glycosyltransferases glycosidases glycan precursor biosynthetic enzymes and nucleotide sugar transporters These genes represent more than 3% of the human genome and cell specific expression of these genes dictates a cell's glycan repertoire ultimately influencing its molecular interactions with GBPs Altogether these emerging lines of investigation highlight the regulatory capacity of glycans in immune health and disease which in turn pave the way for novel diagnostic prognostic and therapeutic strategies

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

Molecular Basis of NK Cell Recognition and Function L. Moretta, 1996 Natural killer NK cells have been the subject of intense investigation Only in recent years however could the molecular mechanisms by which they lyse tumor or virus infected cells but spare normal cells be elucidated NK cells express different specialized receptors NK R specific for major histocompatibility complex MHC class I molecules These MHC molecules exert an inhibitory effect on NK cells i e lack of expression of one or more MHC class I alleles a common event in tumor or virus infected cells leads to NK mediated target cell lysis Recently NK type receptors have also been identified in a subset of T lymphocytes MHC NK R interaction causes inhibition of T cell activation and functions an observation which suggests a role for these receptors in the negative control of T cell responses This volume offers a complete and updated review of the signal transduction and functions of NK cells as well as their roles in transplantation anti tumor response and infectious diseases Written by experienced investigators who have contributed significantly to progress in the field this collection of reviews will be a valuable resource for basic and clinical immunologists hematologists oncologists and virologists

Mammalian Carbohydrate Recognition Systems Paul R. Crocker, 2012-12-06 In the last decade there has been a great expansion in our knowledge of the existence nature and functions of mammalian carbohydrate binding proteins This book covers the structures and postulated functions for the major classes of mammalian carbohydrate binding proteins These include intracellular lectins involved in diverse functions such as protein synthesis quality control targeting of lysosomal enzymes and in the secretory pathway In addition several chapters are devoted to other major families of lectins that are found at the cell surface or in extracellular fluids which are involved in various recognition functions such as cell cell interactions in inflammation and recognition of pathogen

carbohydrates in host defence **Biomedical Index to PHS-supported Research** ,1993 Biomedical Index to PHS-supported Research: pt. A. Subject access A-H ,1994 **Cell Surface and Extracellular Glycoconjugates** David Duncan Roberts,Robert P. Mecham,1993 This book serves as a much needed guide for new investigators in the field of glycobiology as well as researchers in other disciplines attempting to define the role of glycoconjugates in their biological systems Cell Surface and Extracellular Glycoconjugates Structure and Function describes the determination of structure and function of glycoconjugates that occur on the cell surface and in molecules involved in cell matrix interactions The broad scope of thebook covers basic background and technical information in this rapidly expanding field The text is specifically designed to inform researchers in diverse disciplines of the approaches and resources that can be employed to address problems in glycoconjugate biology Includes coverage of the Structure of cell surface carbohydrates Biosynthesis of glycoproteins Biological signals associated with glycoproteins Diversity of glycoprotein structure **Indian Journal of Biochemistry & Biophysics** ,1993 Cell Behaviour Gareth Jones,Gareth E. Jones,Caroline B. Wigley,Richard Warn,Society for Experimental Biology (Great Britain),1993 Journal of Cell Science ,2004 **Cell Biology and Toxicology** ,1990 **Chemistry and Industry** ,1990 **Wiley Encyclopedia of Chemical Biology, Volume 1** Tadhg P. Begley,2009 The first major reference at the interface of chemistry biology and medicine Chemical biology is a rapidly developing field that uses the principles tools and language of chemistry to answer important questions in the life sciences It has enabled researchers to gather critical information about the molecular biology of the cell and is the fundamental science of drug discovery playing a key role in the development of novel agents for the prevention diagnosis and treatment of disease Now students and researchers across the range of disciplines that use chemical biology techniques have a single resource that encapsulates what is known in the field It is an excellent place to begin any chemical biology investigation Major topics addressed in the encyclopedia include Applications of chemical biology Biomolecules within the cell Chemical views of biology Chemistry of biological processes and systems Synthetic molecules as tools for chemical biology Technologies and techniques in chemical biology Some 300 articles range from pure basic research to areas that have immediate applications in fields such as drug discovery sensor technology and catalysis Novices in the field can turn to articles that introduce them to the basics whereas experienced researchers have access to articles exploring the cutting edge of the science Each article ends with a list of references to facilitate further investigation With contributions from leading researchers and pioneers in the field the Wiley Encyclopedia of Chemical Biology builds on Wiley s unparalleled reputation for helping students and researchers understand the crucial role of chemistry and chemical techniques in the life sciences Glycobiology and the Brain M. Nicolini,Paolo Zatta,1994 This book draws together for the first time contributions from carbohydrate research in the areas of neurobiology neuropathology and neuropharmacology highlighting the importance of carbohydrates in the understanding of neurobiology the development of neuropathology and the commercialisation of neuropharmacological

agents Glycobiology is a relatively new field emerging in importance both in research institutes and industry The chapters in this book focus on aspects of the present and future application of the study of glycobiology to brain biochemistry from basic research on glycoconjugates to practical identification of carbohydrates in neuropathological studies and the relevance of structural studies in a pharmacological perspective *Abnormalities of IgG Glycosylation and Immunological Disorders* D. A. Isenberg, T. W. Rademacher, 1996-07-25 Glycobiology has become the focus of considerable research in recent years as the role of oligosaccharides in both health and disease has come under scrutiny During this period particular emphasis has been placed on the glycosylation of human immunoglobulins notably IgG not least because clear links with a restricted range of human diseases has been established *Abnormalities of IgG Glycosylation and Immunological Disorders* uniquely draws together the facts that have emerged to link abnormalities in IgG glycosylation and immunological disease especially rheumatoid arthritis It reviews all aspects of immunoglobulin glycosylation abnormalities including the structural anatomy of glycoproteins the methods used to analyse them the clinical aspects of glycobiology in both human disease and animal models the glycosylation enzymes and the genes that encode and regulate these enzymes and the possible pathogenicity of IgG The chapter authors have been chosen because of the original contributions they have made to this exciting field of research As such this authoritative and well referenced volume will be indispensable to both clinicians and basic scientists with an interest in glycosylation as well as rheumatologists immunologists bacteriologists and glycobiologists

Proceedings of the National Academy of Sciences of the United States of America ,1992 The Proceedings of the National Academy of Sciences PNAS publishes research reports commentaries reviews colloquium papers and actions of the Academy PNAS is a multidisciplinary journal that covers the biological physical and social sciences

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