

ADVANCES IN  
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Volume 174

**GANGLIOSIDE  
STRUCTURE,  
FUNCTION,  
AND BIOMEDICAL  
POTENTIAL**

Edited by Robert W. Ledeen, Robert K. Yu,  
Maurice M. Rapport, and Kunihiro Suzuki

# Ganglioside Structure Function And Biomedical Potential

**Hinrich Rahmann**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a white center, partially overlapping the bar.

## **Ganglioside Structure Function And Biomedical Potential:**

*Ganglioside Structure, Function, and Biomedical Potential* Robert W. Ledeen, 2012-12-06 This volume contains the proceedings of the symposium on Ganglioside Structure Function and Biomedical Potential which was held at Parksville Vancouver Island B C Canada on July 6 10 1983 The symposium was organized as a satellite to the ninth meeting of the International Society for Neurochemistry held immediately afterward in Vancouver City B C Close to 50 speakers from 9 countries presented papers on a wide range of topics on the ganglioside theme These encompassed the many aspects of basic research that have evolved over the past half century as well as some newer topics relating to the biomedical potential of gangliosides as therapeutic agents One of the purposes of the meeting was to encourage dialogue between investigators in these seemingly diverse areas in the hope that each would come away with fresh perspective toward his own work Judging from the many spirited informed discussions that took place throughout the four day meeting this goal was achieved The charm and beauty of Vancouver Island undoubtedly contributed to the congenial atmosphere which quickly developed among the 120 or so participants Drawn from 13 countries of Europe East and West America North and South Asia and the Middle East this gathering reflected the broad geographical scale on which ganglioside research is now conducted That this field is still in its logarithmic stage of growth is indicated by the increasing number of citations appearing each year in the various abstracts e g fig next page

**Ganglioside Structure Function and Biomedical Potential** Robert W Ledeen, 1984-06-01

*Gangliosides and Modulation of Neuronal Functions* Hinrich Rahmann, 2013-06-29 The NATO Advanced Research Workshop on Gangliosides and Modulation of Neuronal Functions was held at the University of Stuttgart Hohenheim Federal Republic of Germany on October 20 24 1986 About 70 participants from 10 countries presented papers on a wide range of topics all concerning the ganglioside theme The content of the workshop consisted of the following chapters 1 Fundamentals for research on function of gangliosides 2 Brain ganglioside metabolism 3 Cell specific distribution and differentiation related expression of brain gangliosides 4 Gangliosides and neuronal plasticity 5 Biomedical potential of exogenous ganglioside application on neuronal function and 6 Critical assessments on aspects of ganglioside therapy The aim of the workshop was to sum up and discuss the present knowledge in the respective fields Despite intensive research on gangliosides ever since Ernst Klenk discovered them in 1936 the biological function of these amphiphilic sphinx like glycosphingo lipids remains elusive Over the past few years several thousands of articles on gangliosides have been published demonstrating very special properties of these glycolipids and their possible involvement in diverse biological phenomena As far as we know up to the present time these properties may be due to particular physico chemical attributes of these compounds especially in combination with calcium The results obtained so far have shed light not only on possible functional roles of gangliosides with regard to cellular induction and organization but have also unexpectedly opened up a whole new field of therapeutic applications for these compounds

**Gangliosides and Neuronal Plasticity** G.

Tettamanti, Robert Ledeen, K. Sandhoff, Y. Nagai, G. Toffano, 2013-11-11 This volume contains the Proceedings of the Meeting Neuronal plasticity and gangliosides which was held at Mantova Italy on May 29 31 1985 as a satellite to the Tenth Meeting of the International Society for Neurochemistry Riva del Garda Italy May 19 24 1985 The Symposium took place in the Teatro Bibiena one of the oldest and most beautiful theatres in Italy known for having been the place for some of the very first performances of W A Mozart The number of registered participants in the Meeting was about 180 including 40 accompanying persons The persons invited as Speakers or Chairmen of Colloquia and Workshops were 48 Eighteen countries were represented with the largest contingent coming from Italy followed by Federal Republic of Germany The United States France and Great Britain The Meeting was based on Colloquia Workshops Round Tables and Poster Sessions with a total of 42 Lectures and 32 Poster presentations

Pharmacology of Diabetes C. E. Mogensen, E. Standl, 2019-07-08 No detailed description available for Pharmacology of Diabetes

Glycoconjugates Howard J. Allen, Edward C. Kisailus, 1992-04-15 Glycoconjugates Composition Structure and Function provides an excellent overview of the composition biosynthesis function and structure of the carbohydrate chains of glycoconjugates from higher organisms It is recommended as a core reference text providing excellent coverage of the glycoconjugate field

Gangliosides in Health and Disease, 2018-04-25 Gangliosides in Health and Disease Volume 156 presents the latest information on Gangliosides a class of glycolipids that are found on all vertebrate cell surfaces and are particularly abundant in the brain Individual chapters in this new volume cover Gangliosides as Toxin Receptors Gangliosides in Cancer Cell Signaling Gangliosides in inflammation and neurodegeneration Gangliosides as functional galectin receptors Gangliosides in signal transduction Gangliosides in brain tumor immunology and Gangliosides in axon regeneration and stability amongst other related topics This book brings together world experts in ganglioside structure and function who have been assembled to contribute to this thorough update of the field Contains accessible content that is ideal for students and researchers alike Written by leading authorities in the field

*Enzymes of Lipid Metabolism II* Louis Freysz, Henri Dreyfus, Raphaël Massarelli, Shimon Gatt, 2013-04-17 This book presents the proceedings of the 2nd meeting on Enzymes of Lipid Metabolism which took place in Strasbourg in October 1985 It is a sequel to the first conference bearing this title which took place also in the vicinity of Strasbourg in March 1977 In either case the meetings were coorganized by L Freysz of Strasbourg France and S Gatt of Jerusalem Israel The present meeting was set up as a joint NATO Advanced Research Workshop and CNRS INSERM International Symposium The conference was guided by two principles namely that science has no boundaries neither has the study of lipid metabolism Participants came from Europe the USA Israel and Japan and represented areas of research in lipid metabolism involving fatty acid s cholesterylesters glycerol and sphingolipids The experimental approaches utilized purified enzymes artificial and biological membranes as well as a variety of cells primary or cultured lines A session was also devoted to modification of lipid enzymes and metabolism resulting from inherited inborn defects such as the lipid storage diseases which are caused by genetic

modification of degradative enzymes of lipid metabolism A second type of disease stemming from a defect in a cell organelle the peroxisome was also discussed The eight and one and a half years which elapsed since the previous meeting highlighted the changing emphasis of research in lipid metabolism *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), **Vascular and Neurologic Complications of Diabetes Mellitus** F. Belfiore, G. M. Molinatti, J. R. Williamson, 1987-03-09 Neurobiology of Glycoconjugates R.K. Margolis, R.U. Margolis, 2013-04-18 This revised and renamed volume reflects a number of important changes in content and emphasis since this field was first surveyed in *Complex carbohydrates of nervous tissue* in 1979 A third of the chapters did not appear in the predecessor volume and more than half have new authors In this expanded **Secretory Systems and Toxins** Michal Linial, Alfonso Grasso, Phillip Lazarovici, 2003-09-02 This volume deals with the relationships between toxins and one of the most fundamental processes in any living cell the secretory cycle The reader will find up to date information on secretion generated by experts in this fast evolving field In the last decade extensive molecular and cellular studies have exposed the molecular similarity among **Cell Culture in the Neurosciences** Jane Bottenstein, 2012-12-06 A fundamental problem in neuroscience is the elucidation of the cellular and molecular mechanisms underlying the development and function of the nervous system The complexity of organization the heterogeneity of cell types and their interactions and the difficulty of controlling experimental variables in intact organisms make this a formidable task Because of the ability that it affords to analyze smaller components of the nervous system even single cells in some cases and to better control experimental variables cell culture has become an increasingly valuable tool for neuroscientists Many aspects of neural development such as proliferation differentiation synaptogenesis and myelination occur in culture with time courses remarkably similar to those in vivo Thus in vitro methods often provide excellent model systems for investigating neurobiological questions Ross Harrison described the first culture of neural tissue in 1907 and used morphological methods to analyze the cultures Since that time the technique has been progressively modified and used to address an ever widening range of developmental questions In recent years a convergence of new or improved cell culture biochemical electrophysiological and immunological methods has occurred and been brought to bear on neurobiological questions This volume is intended not to be comprehensive but rather to highlight some of the latest findings with a review of previous important work as well in which combinations of these methods are used International Review of Neurobiology, 1988-07-01 *International Review of Neurobiology* Growth Regulation and Carcinogenesis Walter R. Paukovits, 2020-01-29 *Growth Regulation and Carcinogenesis* discusses topics such as growth factors including stimulators and inhibitors of proliferation networks in proliferation regulation differentiation inducing factors origins of neoplasia and their relationship to growth control genetic alterations in cellular regulatory machinery extrachromosomal phenomena non genotoxic carcinogens immortalization and transformation of cells and the role of cell production cell function and cell elimination in physiological growth control Pharmacological

Approaches to the Treatment of Brain and Spinal Cord Injury Donald G. Stein, Bernhard A. Sabel, 2012-12-06 Although there are over 400 000 people each year in the United States alone who suffer from traumatic injury to the central nervous system CNS no pharmacological treatment is currently available Considering the enormity of the problem in terms of human tragedy as well as the economic burden to families and societies alike it is surprising that so little effort is being made to develop treatments for these disorders Although no one can become inured to the victims of brain or spinal cord injuries one reason that insufficient time and effort have been devoted to research on recovery is that it is a generally held medical belief that nervous system injuries are simply not amenable to treatment At best current therapies are aimed at providing symptomatic relief or focus on rehabilitative measures and the teaching of alternative behavioral strategies to help patients cope with their impairments with only marginal results in many cases Only within the last decade have neuroscientists begun to make serious inroads into understanding and examining the inherent plasticity found in the adult CNS Ten years or so ago very few researchers or clinicians would have thought that damaged central neurons could sprout new terminals or that intact nerve fibers in a damaged pathway could proliferate to replace inputs from neurons that died as a result of injury

**Emerging Strategies in Neuroprotection** Manangos, Lal, 2013-11-21 SOLOMON H SNYDER Receptor Research Reaches Neurology Relevance to Neurodegenerative Diseases and Stroke President George Bush has heralded the 1990s as the decade of the brain based largely on the rapid escalation of advances in the molecular neuro sciences and the likelihood that these will bear therapeutic fruit before the turn of the century There is little doubt that the 1970s and 1980s have witnessed more remarkable advances in the molecular neurosciences than all of the preceding hundred years Identification of receptor sites for drugs and neurotransmitters along with simple sensitive and specific means of monitoring them has made it possible to elucidate the mechanism of action for many known drugs and to identify new chemical entities as potential therapeutic agents At the same time the numbers of distinct neurotransmitters have multiplied Prior to 1970 only the biogenic amines were well accepted as transmitters The early 1970s witnessed the gradual acceptance of amino acids as major excitatory and inhibitory neurotransmitters Identification of opiate receptors and the subsequent identification of the enkephalins as their endogenous ligands led to an appreciation of peptides as putative transmitters and the accumulation of as many as a hundred neuropeptides by the decade's end In the 1980s the revolutions of molecular biology have been applied aggressively to the neurosciences with molecular cloning for neuropeptide precursors many important neurochemical enzymes and receptors for numerous transmitters *The Molecular Immunology of Complex Carbohydrates* Albert M. Wu, L. Garry Adams, 2012-12-06 During the past three decades the sugar moiety of complex carbohydrates has been found to be involved in important interactions of immunological specificity of antigens and to participate in a variety of cellular functions The long polysaccharide side chains of the lipopolysaccharides on the outer membrane of Gram negative organisms provide surface antigens for differential serodiagnosis Bacterial surface lectins are important in mediating the attachment of bacteria

to host cells in the of infectious diseases The carbohydrate pathogenesis moieties of cell surface glycoconjugates glycoproteins and glycolipids of mammals are the sites for intercellular recognition and for the regulatory molecular interactions such as interaction of complex carbohydrate with hormones or hepatic lectins The carbohydrate side chains of many complex carbohydrates play essential roles as antigenic determinants b of human blood group ABH Lea Le I and i activities as the Forssman specific determinant and as tumor associated antigenic determinants Prompted by these and other advances in the field a Symposium on Molecular Immunology of Complex Carbohydrates was organized as a satellite meeting of the 8th International Glycoconjugate Conference held on September 8 13 1985 in Houston Texas U S A Many eminent scientists contributed their knowledge at this meeting The lecture and poster materials of the symposium are contained in this proceeding book which is divided into four Sections and one Appendix Section I is entitled Antibody Specificity Epitope and Lectinology Dr Elvin A

*The Cell Cycle* Valerie W. Hu, 2012-12-06 Interest in the cell cycle has grown explosively in recent years as a result of the identification of key cell cycle regulators and their substrates Aside from enhancing our understanding of normal cellular growth controls this new knowledge has also been valuable in elucidating mechanisms of growth deregulation which occur in diseased states such as cancer and in some instances viral or parasitic infections The Thirteenth Washington International Spring Symposium was organized with the intention of bringing together scientists working on different aspects of the cell cycle Scientific topics presented ranged from molecular regulators and effectors to mitosis specific changes in cell architecture to the role of the cell cycle in development and disease The goal of this gathering was to help formulate a more comprehensive and integrated picture of events driving and being driven by the cell cycle as well as to evaluate the possibilities for clinical application of this knowledge This symposium held in Washington D C from May 10 14 1993 was attended by more than 400 scientists from 20 countries including many of the scientific leaders in this field This volume contains most of the papers presented at the seven plenary sessions in addition to selected contributions from a total of nine special oral and poster sessions

**Trophic Regulation of the Basal Ganglia** K. Fuxe, L. F. Agnati, B. Bjelke, 2013-10-22 Trophic Regulation of the Basal Ganglia Focus on Dopamine Neurons examines neurotransmitters The book first discusses the role of fibroblast growth factor 2 FGF 2 and ganglioside GM1 and the trophic regulation of the basal ganglia Biochemical and histochemical studies on the cellular localization of FGF 2 mapping of FGF 2 and its receptors in the basal ganglia postnatally and adulthood and mapping of the ganglioside GM1 distribution in the basal ganglia are presented The text also explains glucocorticoid and estrogen effects on the nigrostriatal and mesolimbic dopaminergic systems factors associated to dopaminergic cell death in Parkinson s disease and compensatory mechanisms at dopamine D 2 receptors The book also describes the effects of brain derived neurotrophic factor on injured dopaminergic neurons role of gangliosides and trophic factors in brain repair and features of the trophic action of polyamines The text also underscores the presence of interleukin 1 in the central nervous system neuropeptides synthesis in astrocytes and astrocytic kynurenines as modulators

of dopaminergic function in the rat basal ganglia The selection is a good source of information for readers wanting to study neurotransmitters



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