



Ganglioside G<sub>D3</sub>

# Structure And Function Of Gangliosides

**Strasbourg Symposium on Structure  
and Function of Gangliosides**



## Structure And Function Of Gangliosides:

**Structure and Function of Gangliosides** Lars Svennerholm, 2012-12-06 This volume records the proceedings of an International Symposium on The Structure and Function of Gangliosides held at Le Bischenberg Alsace France in April 23 27 1979 The meeting was convened to get a comprehensive view of the immense activity that had occurred in the field since the previous conference on gangliosides held at Mont Sainte Odile lsace France in April 1973 At a conference on Enzymes of Lipid Metabolism held at the same place in April 1977 several of the participants from the first ganglioside conference in 1973 met again All previous participants agreed that the first meeting with its many frank and stimulating lectures round tables and informal discussions had been of tremendous importance for the activity in the field and led to many personal contacts and a warm friendship among the ganglioside researchers The success of the first meeting must be ascribed largely to one single man PAUL MANDEL Therefore we decided to dedicate the next ganglioside conference to him and I was given the privilege to arrange the meeting together with him and staff members at Centre de Neurochirurgie Strasbourg The Symposium on The Structure and Function of Gangliosides was arranged to honour PAUL MANDEL for his unique and never failing efforts to promote and strengthen international collaboration in all fields of neurochemistry *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 Structure and Function of Gangliosides France, 1980 **Structure and Function of Gangliosides**

France, 1980 **Gangliosides in Neurological and Neuromuscular Function, Development, and Repair** Maurice M. Rapport, Alfredo Gorio, 1981 **Ganglioside Structure Function and Biomedical Potential** Robert W Ledeen, 1984-06-01

**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     **Neurobiology of Gangliosides** Alfredo Gorio, Bernard Haber, 1985

**Structure and Function of Gangliosides** Pam Fredman, 1979     **New Trends in Ganglioside Research** Robert W. Ledeen, 1988     **Comparative Biochemistry and Physiology**, 2001     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 Bio medical 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

**Revue roumaine de biochimie**, 1980     **Structure and Function of Gangliosides** Strasbourg Symposium on Structure and Function of Gangliosides, 1980     **Biochemicals, Reagents & Kits for Life Science Research** Sigma Chemical Company, 2006     The Metabolic Basis of Inherited Disease Charles R. Scriver, 1989     *Ganglioside Function* Giuseppe Porcellati, 2013-11-21 The volume which is here presented reports all the lectures given at the International Satellite Meeting on Biochemical and Pharmacological Implications of Ganglioside Function held at Cortona Tuscany Italy from 28 to 31 August 1975 The Meeting was run just before the 5th International Congress of the International Society for Neurochemistry Barcelona 2-7 September 1975 and was in fact organized on its frame The general subject matter of

gangliosides structure biosynthesis and degradation of their functional role in neurochemistry their pharmacological action and future potentialities was deeply and thoroughly taken into consideration during the three day Symposium which was brilliantly directed and guided by Dr L. Svennerholm. The meeting gave certainly in our opinion a valuable stimulus to research workers interested in the biophysics chemistry biochemistry physiology and pharmacology of gangliosides. The editors wish to express their thanks to the speakers the discussants the Meeting Chairman the section chairmen and to all the attendants who have taken part at the Symposium and who actively and deeply discussed the delivered lectures. Our final thank is also for Dr Francesco della Valle official representative of FIDIA Research Laboratories Abano Terme Padua Italy to whom we are grateful for his continuous and efficient support. The contribution of the Secretarial Staffs of both the v

PREFACE Department of Biochemistry of Perugia University and FIDIA Laboratories to the editorial work is also gratefully acknowledged

*Biochemical Factors Concerned in the Functional Activity of the Nervous System* International Society for Neurochemistry, 1969

*Peterson's Annual Guides to Graduate Study* Karen C. ed Hegener, 1981

Mechanisms Regulating Gene Flow in Flowering Plants Hugh G. Dickinson, Lorenza Saitta, R. L. Gardner, M. Azim Surani, Simon John Hiscock, Davor Solter, Peter R. Crane, 2003

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