



Gangliosides and Modulation of Neuronal Functions (Nato Asi Series : Series H, Cell Biology Vol 7)

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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.

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