

Glycans in Cell Interaction and Recognition

Therapeutic Aspects

Edited by Michèle Aubery

The modulation of cellular interactions represents a crucial aspect of many inter- and intra-cellular processes, including the regulation of gene expression, cell growth, migration, differentiation and apoptosis. Glycoproteins, which constitute one of the major groups of adhesion molecules and receptors, play an important role in such processes and over the last decade, research has highlighted the therapeutic implications this has for many physiological and pathological processes such as inflammation, arthritis and metastasis.

The first part of **Glycans in Cell Interaction and Recognition** deals with the structure and biosynthesis of glycoconjugates, in addition to reviewing the structure and metabolism of glycosaminoglycans and glycolipids. It also features a general overview of cellular adhesion mechanisms and the extracellular matrix.

The second part of the book addresses the pathological roles played by glycoconjugates and their potential therapeutic applications, for example in the progression of cancer, neurophysiopathologies and carbohydrate deficient glycoprotein syndromes.

About the Editor

Michèle Aubery earned her PhD in Cellular Biology at the Université-Pierre-et-Marie-Curie (Paris VI) in 1976. Since then, she has conducted her research as a member of the Institut National de la Santé et de la Recherche Médicale (INSERM) at the UFR Biomédicale des Saints-Pères, Université René-Descartes (Paris V). Dr Aubery's research has centred on cellular adhesion as a function of the glycosylation status of adhesion receptors, such as integrins and other cell-surface glycoproteins. Presently she is 'Directeur de Recherche, 1ère classe' at INSERM and a member of the Comité National 'Cellular Biology, Viruses and Parasites' at the Centre National de Recherche Scientifique (CNRS). Her work has been presented at a number of national and international meetings, in addition to featuring in many peer-reviewed publications.

ISBN 90-5823-052-X
<http://www.gbhap.com>

Harwood Academic Publishers is an imprint of The Gordon and Breach Publishing Group.
Australia • Canada • France • Germany • India • Japan • Luxembourg
Malaysia • The Netherlands • Russia • Singapore • Switzerland

ISBN 90-5823-052-X



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