

Advance praise for the Second Edition of *Essentials of Glycobiology*

"My own research career has repeatedly intersected with glycobiology—ganglioside affinity purification of *E. coli* enterotoxin, isolation of red cell Rh blood group antigens, and molecular elucidation of N-glycosylated aquaporin water channels. The biological importance of these carbohydrates was always intriguing but at times confusing. The availability of the second edition of *Essentials of Glycobiology* now provides succinct coverage of this important area of science for non-experts, like me, as well as the cognoscenti. The basic principles of glycobiology are clearly articulated in this volume, and the roles of complex carbohydrates in disease are an important read for all biomedical scientists."

– **Peter Agre, Nobel Laureate in Chemistry, 2003**

"My first experience with glycoproteins was the research for my thesis (1957) on the effects of proteins on the physical characteristics of the long-chain sugar hyaluronic acid. In 1990 I began an association with the Glycobiology Institute of Oxford University, a pioneer glycobiology laboratory where the term glycobiology was introduced by its Director, Raymond Dwek. We initiated a program [that] led to the design of novel potential therapies—iminosugars—for HCV and potentially many other viruses that could have a profound effect on the prevention and treatment of viral disease. *Essentials of Glycobiology* is a major resource for understanding these posttranslational biochemical reactions that affect the function and fate of proteins produced by the genes that are profoundly changed by their added sugars."

– **Baruch S. Blumberg, Nobel Laureate in Medicine, 1976**

"Paul Valery, the French author, poet, and mathematician, once said: '*Ce qui est simple est faux, ce qui est compliqué est incompréhensible*' (that which is simple is wrong, that which is complicated is incomprehensible). Well, yes, but not this time. The second edition of *Essentials of Glycobiology*, superbly printed and illustrated, develops in simple and absolutely precise terms the complicated intricacies of glycobiology. I would have killed to get this encyclopedic treatise 40 years ago when I was working my way through this field."

– **Edmond H. Fischer, Nobel Laureate in Medicine, 1992**



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