



# Introduction to Glycobiology

By Maureen E. Taylor, Kurt Drickamer

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This is the first textbook which introduces the essential elements of glycobiology in a way that is readily accessible to undergraduates and other non-specialists. It will be of wide interest to graduate students, postdoctoral researchers and faculty members in related fields, who want an introduction to this important interdisciplinary field. Coherent stories about what sugars do for cells and organisms are the focus--particularly the importance of glycosylation in protein secretion and stability, cell-cell adhesion and signaling, and innate and adaptive immunity. The ways in which glycobiology explains human disease are discussed throughout the book, giving it a biomedical context. Illustrated throughout with all new custom-drawn figures, the book's simple organization, highlighted terms and annotated key reference lists make it readable and accessible. In addition, all the figures from the book will be available to download free from the companion web site at <http://www.oup.com/uk/best.textbooks/biochemistry/glycobiolo>

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## **Introduction to Glycobiology** By Maureen E. Taylor, Kurt Drickamer Bibliography

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#### **Review**

Overall it provides a comprehensive introduction to everything related to carbohydrates, focusing largely on mammalian systems including carbohydrate compositions, structures, biosynthesis and functions, along with description of the tools and procedures that are employed in their study.

Nature Structural Biology, Volume 10, Number 6 June 2003.

'Judging from the chapters that I read, I expect an excellent final product...I give this project my full endorsement'

Professor Steven Rosen, University of California, San Francisco

'There is a definite need for an introductory text on the subject for students of biology (and biochemistry)...I recommend the book strongly'

Professor Nathan Sharon, The Weizmann Institute of Science, Israel

#### **About the Author**

Maureen Taylor gained her BSc from King's College, University of London and went on to study for her PhD at the University of London. She was a Postdoctoral Research Fellow at Columbia University and is currently University Research Lecturer at the Glycobiology Institute in the Department of Biochemistry, and Fellow and Tutor of Biochemistry at Exeter College, University of Oxford. Kurt Drickamer studied for his BS at Stanford University, and then his PhD at Harvard. He was the Helen Hay Whitney Postdoctoral Research Fellow at Duke University and Cold Spring Harbor Laboratory before being appointed Assistant Professor of Biochemistry, University of Chicago and then Associate Professor of Biochemistry, Columbia University. He is currently Professor of Biochemistry and Wellcome Principal Research Fellow at the Glycobiology Institute in the Department of Biochemistry, University of Oxford.

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