

about the book . . .

This state-of-the-art **reference/text** presents the **latest methods** in the development of carbohydrate-based therapeutics—highlighting **up-to-date** applications in chemical and enzymatic synthesis of complex carbohydrates, carbohydrate function, and carbohydrate-mediated biological recognition processes.

Emphasizing the role of carbohydrates as key elements in **modern** molecular recognition processes, *Glycochemistry* covers solid-phase synthesis of glycoconjugates...chemoenzymatic synthesis of glycoconjugates...carbohydrate recognition processes for bacterial and viral infections...**current methodologies** in the synthesis of aminoglycoside antibiotics...biotransformation of polysaccharides...and more.

about the editors . . .

PENG GEORGE WANG is an Associate Professor in the Department of Chemistry at Wayne State University and an Adjunct Associate Professor at the Barbara Ann Karmanos Cancer Institute, Detroit, Michigan. The recipient of the 1999 Camille Dreyfus Teacher-Scholar Award, the National Institutes of Health First Independent Research Support and Transition (FIRST) Award from 1996 to 2001, and the Metro Detroit's Creator Award 2000, he holds three U.S. patents and is an editorial board member for *Medicinal Research Reviews*. A member of the American Chemical Society, the Glycobiology Society, and the American Society for Microbiology, he received the B.S. degree (1984) in chemistry from Nankai University, Tianjin, People's Republic of China, and the Ph.D. degree (1990) in organic and bioorganic chemistry from the University of California, Berkeley.

CAROLYN R. BERTOZZI is an Assistant Investigator of the Howard Hughes Medical Institute and an Associate Professor of Chemistry and Molecular and Cell Biology at the University of California, Berkeley, as well as Head of the Chemical Biology Department at the Lawrence Berkeley National Laboratory, Berkeley, California. The holder of four U.S. patents, she is an honorary editorial board member for *Synlett* and serves as an editorial board member for *Carbohydrate Research* and on the Editorial Advisory Boards of the *Journal of Medicinal Chemistry* and *Accounts of Chemical Research*. A member of the American Chemical Society; the Glycobiology Society; and the Scientific Advisory Boards of Zyomyx, Inc., Hayward, California; Tularik, Inc., South San Francisco, California; and Alnis, Emeryville, California, and cofounder of Thios Biotechnology, Oakland, California, she received the A.B. degree (1988) in chemistry from Harvard University, Cambridge, Massachusetts, and the Ph.D. degree (1993) from the University of California, Berkeley.

Printed in the United States of America

MARCEL DEKKER, INC.
NEW YORK • BASEL

ISBN 0-6247-0538-6



9 780824 705381

9 0000

