

Essentials of Carbohydrate Chemistry and Biochemistry


By Thisbe K. Lindhorst

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Concise yet complete, this is a succinct introduction to the topic, covering both basic chemistry as well as such advanced topics as high-throughput analytics and glycomics -- in one handy volume. This improved and expanded 3rd edition features all-new material on combinatorial synthesis of carbohydrates and carbohydrate biodiversity, and each chapter now contains study questions for self-learning and classroom teaching. Didactically written by an experienced lecturer and graduate student advisor, the text is backed by practical examples and more than 150 study questions tailored to students' needs.

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Editorial Review

Review

"...certainly merits a place on the shelves of carbohydrate chemistry students and will surely prove to be a useful laboratory resource for many."

ChemBioChem

(Oct. 2007)

From the Back Cover

Carbohydrates are important storage molecules, constituents of nucleic acids and biological recognition markers. Synthetic carbohydrates are important food additives, building blocks for polymers and have also been used as drugs.

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From the contents:

- * Introduction to Carbohydrates
- * Structure of Saccharides
- * Protecting Groups for Carbohydrates
- * O-Glycoside Synthesis
- * Modifications and Functionalizations of the Sugar Ring
- * Glycoconjugates - Structure and Biosynthesis
- * Combinatorial Synthesis of Carbohydrates
- * Glycobiology and Glycomics
- * Purification and Analysis of Carbohydrates
- * The Literature of Carbohydrate Chemistry

Didactically written by an experienced lecturer and graduate student advisor, the text is backed by practical examples and many study questions tailored to students' needs.

About the Author

Thisbe Lindhorst holds the Chair of Organic Chemistry at the University of Kiel (Germany). She graduated from Münster University in 1988, completing her Ph.D. in Organic Chemistry at the University of Hamburg in 1991. She then spent a postdoctoral period with S. G. Withers at the University of British Columbia in Vancouver (Canada) before returning to Hamburg. In 2000 she was appointed full professor at the University of Kiel.

Her research interests focus on natural product synthesis, carbohydrate and dendrimer chemistry.

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