



# Biochemical Pathways: An Atlas of Biochemistry and Molecular Biology

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## Biochemical Pathways: An Atlas of Biochemistry and Molecular Biology

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### The pathways and networks underlying biological function

Now in its second edition, *Biochemical Pathways* continues to garner praise from students, instructors, and researchers for its clear, full-color illustrations of the pathways and networks that determine biological function.

*Biochemical Pathways* examines the biochemistry of bacteria, plants, and animals. It offers a quick overview of the metabolic sequences in biochemical pathways, the chemistry and enzymology of conversions, the regulation of turnover, the expression of genes, the immunological interactions, and the metabolic background of health disorders. A standard set of conventions is used in all illustrations, enabling readers to easily gather information and compare the key elements of different biochemical pathways. For both quick and in-depth understanding, the book uses a combination of:

- Illustrations integrating many different features of the reactions and their interrelationships
- Tables listing the important system components and their function
- Text supplementing and expanding on the illustrated facts

In the second edition, the volume has been expanded by 50 percent. Text and figures have undergone a thorough revision and update, reflecting the tremendous progress in biochemical knowledge in recent years. A guide to the relevant biochemical databases facilitates access to the extensive documentation of scientific knowledge.

*Biochemical Pathways, Second Edition* is recommended for all students and researchers in such fields as biochemistry, molecular biology, medicine, organic chemistry, and pharmacology. The book's illustrated pathways aids the reader in understanding the complex set of biochemical reactions that occur in biological systems.

**From the reviews:**

*“... highly recommended for every scientist and student working in biochemistry.”* –Umwelt & Gesundheit 4/2012 (review in German language)

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- Sales Rank: #228493 in Books
- Published on: 2012-10-30
- Original language: English

- Number of items: 1
- Dimensions: 11.10" h x .80" w x 8.70" l, 2.51 pounds
- Binding: Hardcover
- 416 pages



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### Editorial Review

#### Review

“Michal and Schomburg (Technische Univ. Carolo-Whilhelmina, Germany) have reorganized, updated, and greatly expanded (over 100 pages of new content) this unique resource, keeping it an essential biochemical reference. Summing Up: Essential. Biochemistry collections, upper-division undergraduates through professionals.” (*Choice*, 1 August 2013)

“Biochemical Pathways, Second Edition is recommended for all students and researchers in such fields as biochemistry, molecular biology, medicine, organic chemistry, and pharmacology. The book's illustrated pathways aids the reader in understanding the complex set of biochemical reactions that occur in biological systems.” (*Kingbook73.blogspot*, 23 April 2013)

“This book, not too scary to read thanks to its compact size, served as a great reading for the incoming graduate students from the biology department and the chemical engineering department alike.” (*Biotechnology Journal*, 1 January 2013)

#### From the Back Cover

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## About the Author

**GERHARD MICHAL, PhD**, has retired from research at Boehringer Mannheim GmbH (now Roche Diagnostics). He is internationally acclaimed for developing the "Biochemical Pathways" wall chart. The first edition, which was published some forty years ago, has been continuously updated and is used in many biochemistry laboratories around the world.

**DIETMAR SCHOMBURG, PhD**, is a Full Professor and Head of the Department of Bioinformatics and Biochemistry at the Technische Universität Carolo-Wilhelmina in Braunschweig. His research interests include protein structure and function, structural biochemistry, bioinformatics, and enzyme information/metabolic networks. Dr. Schomburg has been widely praised for establishing BRENDA, the principal source of enzyme function and property data.

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