



# Peptides: Chemistry and Biology

By Norbert Sewald, Hans-Dieter Jakubke

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Thoroughly updated, incorporating around 25 % new material, Sewald/Jakubke remains the only modern and scientifically up-to-date advanced textbook on peptide biochemistry, distilling the knowledge of hundreds of publications into a highly readable synopsis of this diverse field.

The authors explain the broad fundamentals of peptide synthesis and structure, systematically addressing important families of biologically active peptides, and adopting an interdisciplinary approach that covers application areas in biotechnology, pharmaceutical science, and biomedicine. One major focus is on such "hot" research topics as pseudopeptides, peptidomimetics, and combinatorial synthesis.

This new edition also features study questions for each learning unit, for easier self-study and classroom teaching.

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### Editorial Review

#### Review

The book by Sewald and Jakubke is most timely and will be extremely useful for students and researchers in peptide science. The authors address the broad fundamentals of peptide synthesis and structure. They also identify important families of biologically active peptides.

Lastly, they bring their impressive treatment up to the most current of peptide activities including pseudopeptides, peptidomimetics, combinatorial syntheses and applications of peptides as pharmaceuticals and in biotechnology. The book is an impressive addition to the field and will help researchers identify peptide derivatives as key target molecules for pharmaceuticals and novel structures in biotechnology. - Murray Goodman, Univ. of California, San Diego

"...absolutely excellent book, handsomely produced and underpriced..."(European Peptide Society Newsletter, 1 January 2003)

#### From the Back Cover

With peptides playing such a valuable role in the body, the need for a modern and scientifically up-to-date advanced textbook is critical for both students and teachers. This book on peptide science distils the knowledge of hundreds of publications into a highly readable synopsis of this diverse field.

Commencing with the broad fundamentals of peptide synthesis and structure, systematic explanations of the important families of biologically active peptides are given, and the interdisciplinary approach covers application areas in biotechnology, pharmaceutical science, and biomedicine. One major focus is on such "hot" research topics as pseudopeptides, peptidomimetics, combinatorial synthesis, and proteomics. This new edition has been fully revised and now features study questions and exercises for each learning unit, didactically enhanced for easier self-study and classroom teaching.

Norbert Sewald studied Chemistry at the Technical University of Munich, Germany, where he also obtained his PhD degree. After postdoctoral work with J. E. Baldwin in Oxford, UK, he became an Assistant Professor at Leipzig University. Since 1999 he is full Professor at the University of Bielefeld where he holds the chair in Organic and Bioorganic Chemistry. His main scientific interest is in peptide chemistry, bioactive peptides, and their application in biochemistry and medical sciences. He has authored more than 120 publications and together with Hans-Dieter Jakubke, has written the book *Peptides from A - Z*, also published by Wiley-VCH.

Hans-Dieter Jakubke studied Chemistry at the Martin-Luther-University Halle-Wittenberg, Germany. After finishing his PhD and postdoctoral work with Josef Rudinger in Prague (Czech Republic), he was appointed Assistant Professor at the Department of Biochemistry in Halle, and Full Professor of Biochemistry at the University of Leipzig in 1977. He was director of the Department of Biochemistry from 1993-1997 and member of the Council of the European Peptide Society from 1990-1994. He authored several textbooks and encyclopedias on various aspects of chemistry and biochemistry including peptide research.

#### About the Author

Norbert Sewald studied Chemistry at the Technical University of Munich, Germany, where he also obtained his PhD degree. After postdoctoral work with J. E. Baldwin in Oxford, UK, he became an Assistant Professor at Leipzig University. Since 1999 he is full Professor at the University of Bielefeld where he holds the chair

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