DESCRIPTION

This is the fourth of five books in the Amino Acids, Peptides and Proteins in Organic Synthesis series.

Closing a gap in the literature, this is the only series to cover this important topic in organic and biochemistry. Drawing upon the combined expertise of the international "who's who" in amino acid research, these volumes represent a real benchmark for amino acid chemistry, providing a comprehensive discussion of the occurrence, uses and applications of amino acids and, by extension, their polymeric forms, peptides and proteins.

The practical value of each volume is heightened by the inclusion of experimental procedures.

The 5 volumes cover the following topics:

Volume 1: Origins and Synthesis of Amino Acids

Volume 2: Modified Amino Acids, Organocatalysis and Enzymes

Volume 3: Building Blocks, Catalysis and Coupling Chemistry

Volume 4: Protection Reactions, Medicinal Chemistry, Combinatorial Synthesis
Volume 5: Analysis and Function of Amino Acids and Peptides

The fourth volume in this series is structured in three main sections. The first section is about protection reactions and amino acid based peptidomimetics. The second, and most extensive, part is devoted to the medicinal chemistry of amino acids. It includes, among others, the chemistry of alpha- and beta amino acids, peptide drugs, and advances in N- and O-glycopeptide synthesis. The final part deals with amino acids in combinatorial synthesis. Methods, such as phage display, library peptide synthesis, and computational design are described.

Originally planned as a six volume series, *Amino Acids, Peptides and Proteins in Organic Chemistry* now completes with five volumes but remains comprehensive in both scope and coverage.

Further information about the 5 Volume Set and purchasing details can be viewed here.

---

**ABOUT THE AUTHOR**

Andrew Hughes is a reader and Head of the Department of Chemistry, La Trobe University, Melbourne, Australia. He obtained his degrees from the University of Western Australia. Post-doctoral appointments at the University of Cambridge starting 1989 included 3 years working with Professor Andrew Holmes before joining Professor Steven Ley’s group in 1993. While at Cambridge he was appointed the Shell Research Fellow at Robinson College.

---

**SERIES**

*Amino Acids™ Peptides and Proteins in Organic Chemistry (VCH)*

For additional product details, please visit https://www.wiley.com/en-us