

Interface between Chemistry and Biochemistry



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P. Jolles
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Interface Between Chemistry And Biochemistry

Jianpeng Wang

Interface Between Chemistry And Biochemistry:

Interface between Chemistry and Biochemistry P. Jolles, H. Jörnvall, 2011-09-20 The developing importance of the interface between chemistry and biology is probably the largest change to have occurred in chemistry in the past 15 years. Increasingly more chemists work on problems dealing with biology and interfacial research is poised to move into the main stream of both disciplines. This merging of two types of approach has resulted in a vigorous research discipline with unprecedented potential to address important biological and chemical problems. A series of examples is developed in this book. Analytical aspects are discussed in several chapters. Fundamental concepts do not only derive from chemistry but chemistry has provided biochemistry with powerful tools of analysis. Equally important physicochemical methods allow studies of nucleic acids and lipids, lipases, receptors and other membrane proteins. Several chapters deal with enzymes in different contexts. The part devoted to metalloproteins is directed toward zinc metallochemistry and NMR structural work on zinc proteins. Chemists have been able to bring to biology their characteristic approach of synthesizing new molecules. These aspects are treated in chapters devoted to glycopeptides and uses of peptides as probes. Further fields of interest in combining different disciplines concern novel active compounds such as surfactant peptides and catalytic antibodies in studies resulting from close collaboration between chemists and biochemists.

Chemical Probes in Biology Science at the Interface of Chemistry, Biology and Medicine Manfred P. Schneider, 2003-11-30 The field of Bio organic Chemistry or Chemical Biology as it is also called constitutes a highly interdisciplinary branch of chemistry beyond the traditional pathways in which chemists and biologists have been working in the past. The topics covered in this book include inter alia anticancer agents, antioxidants, chemotaxis, carbohydrates, DNA detection and delivery, enzyme structure, enzyme assisted syntheses, fluorescent probes, gene therapy, genomics, inositol phospholipids, inositol phosphates, multivalent ligands, organic syntheses, oxidative stress, photoaffinity labeling techniques, natural products syntheses and biological activities, phospholipases, proteomics, receptors such as tyrosine kinases, signal transduction phenomena, x-ray crystallography and many more. The book represents an excellent survey of the current state of the art in an exciting area of interdisciplinary science and supplies an incentive for increased cooperation in Science at the Interface of Chemistry, Biology and Medicine.

The Amide Linkage Arthur Greenberg, Curt M. Breneman, Joel F. Liebman, 2000-01-04 The amide linkage is one of the most fundamental and widespread chemical bonds in nature underlying the properties of a vast array of organic molecules, polymers and materials including peptides and proteins. Arthur Greenberg, Curt Breneman and Joel Liebman's peerless text provides comprehensive coverage of the experimental structural and computational findings that shed light on the chemical and physical properties of the amide linkage as well as its emerging applications in materials and biotechnology. Chapters in *The Amide Linkage* highlight how this chemical bond factors in the design of enzyme inhibitors, cyclic peptides, antibacterial agents and emerging nanotechnology applications. This one of a kind study also discusses selected aspects of chemical

reactions structure bonding and energetics of the amide bond including amide rotational barriers stereochemistry complexation spectroscopy and thermochemistry Presents specific applications to supramolecular and stereospecific synthesis Discusses key aspects of peptide and protein chemistry such as molecular recognition conformation and folding in terms of the amide linkage Includes chapters contributed by numerous eminent chemists and biochemists Organic medicinal polymer and physical chemists as well as biochemists and materials scientists will find The Amide Linkage to be an invaluable addition to their professional libraries

A Commemorative Issue in Honor of Professor Nick Hadjiliadis

Metal Complex Interactions with Nucleic Acids and/or DNA Sotiris K Hadjikakou, Christina N. Banti, 2019-02-05 This

book is a printed edition of the Special Issue A Commemorative Issue in Honor of Professor Nick Hadjiliadis Metal Complex

Interactions with Nucleic Acids and/or DNA that was published in IJMS

The Interaction of Sciences in the Study of

the Earth D. I. Sheherbakov, V. V. Belousov, 2002 This book is a collection of articles on a variety of logically interlinked

problems relating to the study of the earth and the evolution of the different sciences that engage in this study the geosciences as they are sometimes called the nature and place of modern geology among other sciences the tendencies in its development the specific features of the so called geological form of motion of matter and its connection with other forms of motion the place of geophysics and geochemistry in the study of the planet and in the system of sciences investigating the earth some philosophical aspects of the transformation of nature On a number of questions the authors express different points of view and the reader is able to judge for himself of the merits and demerits of their theories The volume will no doubt be of interest to geologists geophysicists geochemists geographers and philosophers to say nothing of the ever growing circle of inquisitive readers who take an interest in the exploration of our native planet and the philosophical and methodological questions deriving therefrom The papers were originally presented at joint the theoretical conferences of philosophical methodological seminars scientific establishments of the USSR Academy of Sciences The papers prepared for this collection were revised and supplemented by their authors

Study of the Peptide-Peptide and Peptide-Protein

Interactions and Their Applications in Cell Imaging and Nanoparticle Surface Modification Jianpeng

Wang, 2016-09-26 This thesis focuses on the study of interactions between protein and peptides and their potential

applications in cell imaging and nanoparticle surface modification Drawing inspiration from naturally occurring coiled coil

binding pairs it proposes a novel covalent peptide tag and probe system based on the concept of affinity guided covalent

conjugation This newly established methodology provides complementary resolution to protein labeling imaging and

trafficking By systematically investigating the coordination interaction between protein and quantum dots using various

engineered protein ligands this thesis proposes a general rule for protein self assembly on the surface of quantum dots and

reports a revolutionized nanobelt protein in accordance with this rule It is an extraordinary example of interdisciplinary

research providing answers to real life biological problems from a chemistry perspective

The Journal of Biological

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