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Edited by C Lièbeq

This is an essential reference text for all authors and editors in biochemistry and related disciplines. It contains all the current recommendations on nomenclature issued by the nomenclature committees of the International Union of Biochemistry. It also includes text from, and references to, other important nomenclature documents.

The book's main sections cover: amino acids, peptides and proteins; enzymes; nucleotides, nucleic acids and protein synthesis; carbohydrates; and lipids. There are also articles covering the nomenclatures of: organic chemistry, isotopically modified compounds, phosphorus-containing compounds, folic acids, vitamin B6, corrinoids and tetrapyrroles; as well as the presentation of thermodynamic data.

Contents

General - Nomenclature of organic chemistry: stereochemistry; Nomenclature of organic chemistry: natural products and related compounds; Isotopically modified compounds and isotopically labelled compounds; Recommendations for the presentation of thermodynamic and related data in biology; Citation of bibliographic references in biochemical journals.

Amino acids, peptides and proteins - Nomenclature and symbolism for amino acids and peptides; Abbreviated nomenclature of synthetic polypeptides - Polymerized amino acids; Abbreviations and symbols for the description of the conformation of polypeptide chains; Nomenclature of peptide hormones; Nomenclature of glycoproteins, glycopeptides and peptidoglycans; Nomenclature of initiation, elongation and termination factors for translation in eukaryotes.

Enzymes - Nomenclature of multiple forms of enzymes; Symbolism and terminology in enzyme kinetics; Nomenclature for multienzymes.

Nucleotides, nucleic acids and protein synthesis - Abbreviations and symbols for nucleic acids, polynucleotides and their constituents; Abbreviations and symbols for the description of the conformations of polynucleotide chains; Nomenclature for incompletely specified bases in nucleic acid sequences; Nomenclature of initiation, elongation and termination factors for translation in eukaryotes.

Carbohydrates, etc. - Carbohydrate nomenclature; Nomenclature of cyclitols; Numbering of atoms in myo-inositol; Conformational nomenclature for five- and six-membered ring forms of monosaccharides and their derivatives; Nomenclature of unsaturated monosaccharides; Nomenclature of branched-chain monosaccharides; Abbreviated terminology of oligosaccharide chains; Polysaccharide nomenclature; Symbols for specifying the conformation of polysaccharide chains; Nomenclature of glycoproteins, glycopeptides and peptidoglycans.

Lipids, etc. - Nomenclature of lipids; Nomenclature of steroids; Nomenclature of quinones with isoprenoid side chains; Nomenclature of carotenoids and amendments; Nomenclature of tocopherols and related compounds; Nomenclature of vitamin D; Nomenclature of retinoids; Prenol nomenclature.

Miscellaneous - Nomenclature of phosphorus-containing compounds of biochemical importance; Nomenclature and symbols for folic acids and related compounds; Nomenclature for vitamins B-6 and related compounds; Nomenclature of corrinoids; Nomenclature of tetrapyrroles. Excerpts from the newsletters of the nomenclature committees of the International Union of Biochemistry (JCBN and NC-IUB); Journals and other documents of biochemical nomenclature.

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