

# BIOCHEM

# MEMORIZE

## → AMINO ACIDS

### acidic - very charged

aspartic acid **Asp/D**



glutamic acid **Glu/E**



### sulfur containing

cysteine **Cys/C**



methionine **Met/M**



## → CARBOHYDRATES

### monosaccharides

① 6C

glucose



fructose



galactose



② 5C

ribose



deoxyribose



### highest - most charged pairs basic + very charged

lysine **Lys/K**



arginine **Arg/R**



histidine **His/H**



### hydrophobic - aliphatic → aromatic

glycine **Gly/G**



alanine **Ala/A**



valine **Val/V**



leucine **Leu/L**



isoleucine **Ile/I**



phenylalanine **Phe/F**



tryptophan **Try/W**



### polar amino acids

serine **Ser/S**



threonine **Thr/T**



tyrosine **Tyr/Y**



asparagine **Asn/N**



glutamine **Gln/Q**



### unique

proline **Pro/P**



### disaccharides

- ① maltose = glucose + glucose  
reducing α-1-4
- ② sucrose = glucose + fructose  
non-reducing 1-2
- ③ lactose = glucose + galactose  
reducing β-1-4

### polysaccharides

- ① glycogen = α-1-4 and α-1-6  
★ energy storage in animals  
★ branching
- ② starch = α-1-4 and α-1-6  
★ energy storage in plants
- ③ cellulose = β bonds  
★ cell walls in plants

# Biochem

**David E. Metzler, Carol M. Metzler**



## **Biochem :**

**Biochemistry** David E. Metzler, Carol M. Metzler, 2001-03-23 Biochemistry The Chemical Reactions of Living Cells is a well integrated up to date reference for basic biochemistry associated chemistry and underlying biological phenomena Biochemistry is a comprehensive account of the chemical basis of life describing the amazingly complex structures of the compounds that make up cells the forces that hold them together and the chemical reactions that allow for recognition signaling and movement This book contains information on the human body its genome and the action of muscles eyes and the brain It also features thousands of literature references that provide introduction to current research as well as historical background twice the number of chapters of the first edition and each chapter contains boxes of information on topics of general interest Publisher description *Practical Handbook of Biochemistry and Molecular Biology* Gerald D. Fasman, 1989-03-31 Methodologies and databases for biochemistry and molecular biology are included in this easy to use laboratory reference Its logical presentation enables the reader to quickly and conveniently locate the information relevant to his or her needs Featured are tables containing data on amino acids proteins nucleosides nucleotides and nucleic acids Also featured are lipids and physical chemical data Edited by a leading professional in the field this compact yet comprehensive bench manual serves as the definitive reference source for your laboratory **Handbook of Biochemistry** Gerald D Fasman, 2019-01-15 This first volume contains data on amino acids which consists of the coefficients of solubility in water heat capacities entropies of formation and heats of combustion Specific gravity liquids sucrose solution CsCl solution isokinetic glycerol and sucrose gradients for density gradient centrifugation and the temperature dependence for select compounds are included **The Biochemical Journal**, 1928 Vols 36 include Proceedings of the Biochemical Society **Graduate Degree Programs** Pennsylvania State College. Graduate School, Pennsylvania State University. Graduate School, 1929 **Monographs on biochemistry**, 1921 **The Biochemical Journal**, 1939 Biochemistry of Plant Diseases Minnesota. Agricultural experiment station, Mollie Grace White, 1927 *Schmidt's Jahrbuecher*, 1913 *Acta Pathologica Et Microbiologica Scandinavica*, 1930 **Collected Papers** Lister Institute of Preventive Medicine, 1912 *The Biochemistry of the Amino Acids* Harold Hanson Mitchell, Tom Sherman Hamilton, 1929 **The Yearbook of the Scientific and Learned Societies of Great Britain and Ireland**, 1925 **Official Year-book of the Scientific and Learned Societies of Great Britain and Ireland**, 1915 **Biological Reviews and Biological Proceedings of the Cambridge Philosophical Society** Cambridge Philosophical Society, 1928 Journal of Biophysical and Biochemical Cytology, 1960-02 **Journal of the Association of Official Agricultural Chemists** Association of Official Analytical Chemists, 1930 Includes the Proceedings of the 30th 57th 1913 40 annual convention of the association Earlier proceedings were issued as Bulletins of the U S Dept of Agriculture Bureau of Chemistry *Fishery Investigations* Great Britain. Ministry of Agriculture, Fisheries and Food, 1926 **Journal of the Faculty of Agriculture, Kyushu University** Kyūshū

Daigaku. Nōgakubu, 1930

*The Chemical Aspects of Immunity* Harry Gideon Wells, 1925

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