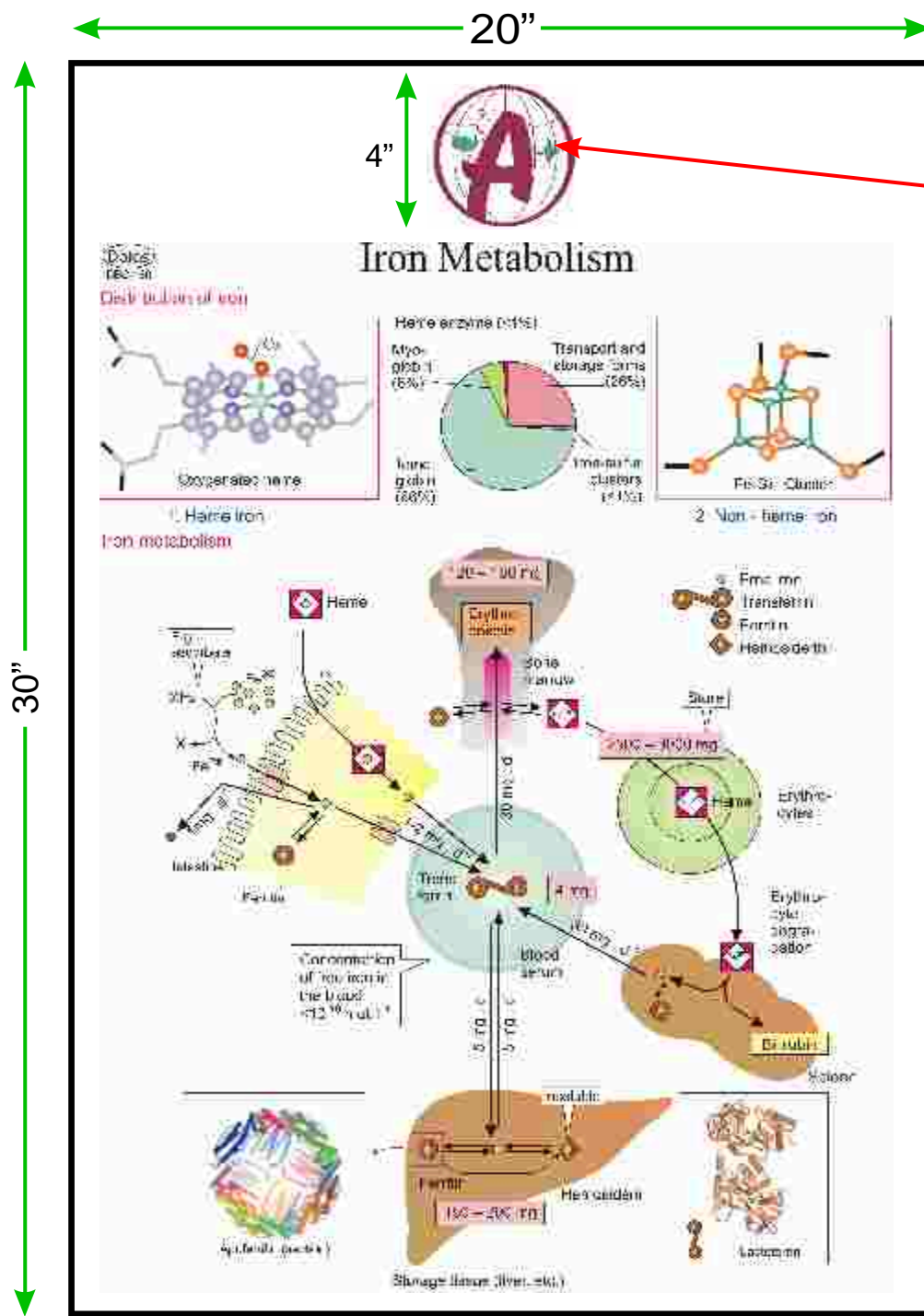


Bio-Chemistry CHARTS

List No. 9
w.e.f. May, 2022

Customised Charts

Size 20"x30" Laminated & Mounted Framed on Board



College Logo & Name

85 Medical Professionals
250 Bio-chemistry Charts
16 Models

Bio- Chemistry

Size : 20"x26" Thick Laminated both side & attached with Plastic Strips

Size : 20"x26" Thick Laminated & Framed on NU-Wood Board

Chemistry

- DBC 01 Periodic table - Biological Important elements, Electronic Configurations
 DBC 02 Bonds - Orbital hybridization & chemical bonding, Resonance
 DBC 03 Molecular Structure - illustrations, Bond lengths and angles, Bond Polarity, Hydrogen bonds
 DBC 04 Isomerism - Cis-trans-isomers, Conformers, Optical isomers, The aconitase reaction
 DBC 05 Biomolecules I - Important classes of compounds
 DBC 06 Biomolecules II - Acetyl CoA
 DBC 07 Chemical reactions - Redox Reaction, Acid-Base Reaction, Additions eliminations, Nucleophilic substitutions

Physical chemistry

- DBC 11 Energetics - Forms of work, Energetics and the course of processes
 DBC 12 Equilibriums - Group transfer reactions, Redox reactions, Acid-base reactions
 DBC 13 Enthalpy and entropy - Heat of reaction and calorimetry, Enthalpy and entropy,
 DBC 14 Reaction Kinetics - Activation energy, Reaction rate, Reaction order
 DBC 15 Catalysis - Catalysis principle, Catalysis of H₂O₂ - breakdown by iodide,
 DBC 16 Water as a solvent - Water and methane, Structure of water and ice, Hydration
 DBC 17 Hydrophobic interactions - Solubility of methane, The "oil drop effect" water Arrangements of amphipathic substances in water
 DBC 18 Acids and bases - Acids and bases, pH values in the body, Buffers
 DBC 19 Redox Processes - Redox reactions, Reducing equivalents, Biological redox system

BIOMOLECULES

Carbohydrates

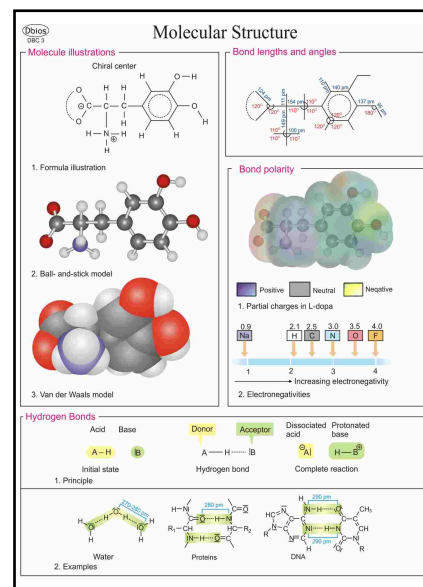
- DBC 21 Overview - Carbohydrates overview, Monosaccharides structure
 DBC 22 Chemistry of sugar - Reactions of the monosaccharides, Polarimetry, Mutarotation
 DBC 23 Monosaccharides and Disaccharides - Important monosaccharides, Disaccharides
 DBC 24 Polysaccharides overview - Polysaccharides structure, Important Polysaccharides,
 DBC 25 Plant Polysaccharides - Cellulose, Starch,
 DBC 26 Glycosaminoglycans and Glycoproteins - Hyaluronic acid, Oligosaccharide in immunoglobulin (IgG), Glycoproteins

LIPIDS

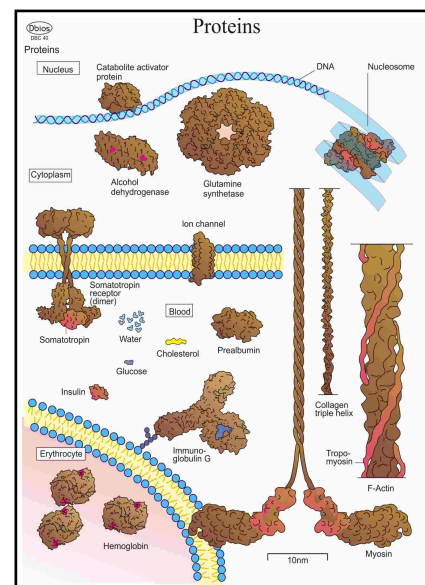
- DBC 28 Overview - Classification
 DBC 29 Fatty acid and fats - Carboxylic acids, Structure of fats
 DBC 30 Phospholipids and Glycolipids - Structure of fats, Phospholipids and Glycolipids
 DBC 31 Isoprenoids - Activated acetic acid as a component of lipids, Isoprenoids,
 DBC 32 Steroid structure - Steroid building blocks, 3D structure, Thin-layer Chromatography
 DBC 33 Steroid : overview - Sterols, Bile acids, Steroid hormones

AMINO ACIDS

- DBC 36 Chemistry and properties - Amino acids: functions, Optical activity, Dissociation curve of histidine B27
 DBC 37 Proteinogenic amino acids - The proteinogenic amino acids,
 DBC 38 Non-Proteinogenic amino acids - Rare amino acids, Post-translational Protein modification, Biogenic amines



DBC 03



DBC 40

Bio- Chemistry

Size : 20"x26" Thick Laminated both side & attached with Plastic Strips
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PEPTIDES AND PROTEINS

- DBC 40 Overview - Proteins
- DBC 41 Peptide bonds - Peptide bonds, Resonance, Peptide nomenclature, Conformation space of the peptide chain
- DBC 42 Secondary structures - Helix, Collagen Helix, Pleated-sheet structures, B - Turns
- DBC 43 Structural proteins - Keratin, Collagen, Silk fibroin
- DBC 44 Globular proteins - Conformation-stabilizing interactions, Disulfide bonds, Protein dynamics, Folding patterns
- DBC 45 Protein folding - Folding and denaturation of ribonuclease, Energetics of protein folding
- DBC 46 Molecule models : Insulin - Structure of insulin, Insulin (monomer)
- DBC 47 Isolation and analysis of proteins - Salt precipitation, Dialysis, Gel filtration, SDS gel electrophoresis

NUCLEOTIDE AND NUCLEIC ACID

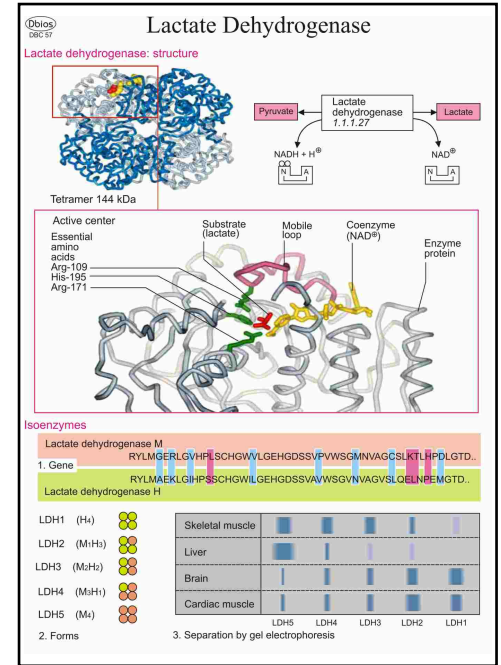
- DBC 48 Base and nucleotides - Nucleic acid bases, Nucleosides, Nucleotides, Oligonucleotides, Polynucleotides
- DBC 49 RNA - Ribonucleic acids (RNAs), Transfer RNA (tRNA)
- DBC 50 DNA - DNA: structure, Coding of genetic information
- DBC 51 Molecular model: DNA and RNA - DNA: Conformation, RNA,

METABOLISM ENZYMES

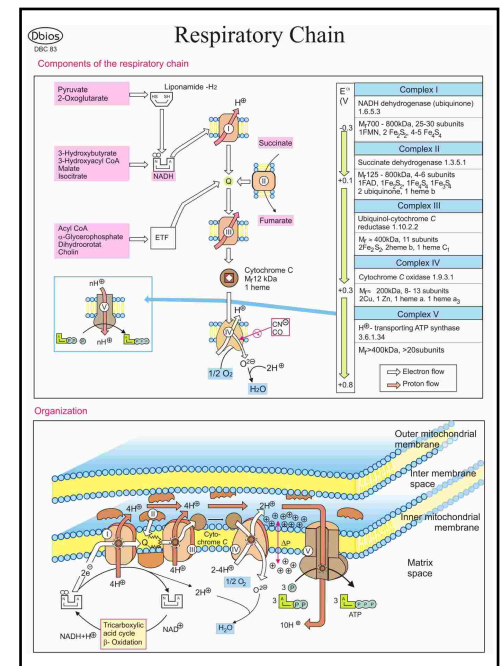
- DBC 52 Basics - Enzymatic activity, Reaction and substrate specificity, The enzyme classes,
 - DBC 53 Enzyme Catalysis - Uncatalyzed reaction, Enzyme - catalyzed reaction Principles of enzyme catalysis
 - DBC 54 Enzyme Kinetics 1 - Michaelis Menten kinetics, Isosteric and allosteric enzymes
 - DBC 55 Enzyme Kinetics 11 - pH and temperature dependency of enzyme activity, Substrate specificity, Bisubstrate kinetics
 - DBC 56 Inhibitors - Types of inhibitor, Kinetics of inhibition
 - DBC 57 Lactate dehydrogenase : structure - Lactate dehydrogenase: structure, Isoenzymes
 - DBC 58 Lactate dehydrogenase: mechanism - A. Lactate dehydrogenase : catalytic cycle
 - DBC 60 Enzymatic analysis - Principle of spectrophotometry, Assay of lactate Dehydrogenase activity, Enzymatic determination of glucose
 - DBC 61 Coenzymes 1 - Coenzymes: definitions, Redox coenzymes,
 - DBC 62 Coenzymes 2- Redox coenzymes 2, Group-transferring coenzymes 1.
 - DBC 63 Coenzymes 3 - Group- transferring coenzymes - 2
 - DBC 64 Activated metabolites - Activated metabolites
- ## METABOLIC REGULATION
- DBC 66 Intermediary metabolism - Intermediary metabolism : overview,
 - DBC 67 Regulatory mechanisms - Fundamental mechanisms of metabolic regulation
 - DBC 68 Allosteric regulation - Aspartate carbamoyltransferase : reaction, Kinetics, R and T conformation, Structure of a dimer,
 - DBC 69 Transcription Control - Functions of regulatory proteins, Lactose operon
 - DBC 70 Hormonal Control - Principles of hormone action, Hormonal regulation of glucose metabolism in the liver

ENERGY METABOLISM

- DBC 73 ATP - ATP : structure, Hydrolysis energies, Types of ATP formation
- DBC 74 Energetic Coupling - Energetic coupling, Substrate level phosphorylation
- DBC 75 Energetic Conservation at Membrances - Electrochemical gradient, Proton motive force,



DBC 03



DBC 25

Bio- Chemistry

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- DBC 76 Photosynthesis : Light reaction - Photosynthesis: overview, Light reactions
- DBC 77 Photosynthesis : Dark reaction - Photosystem II, Redox series, Calvin cycle
- DBC 78 Molecular Model : Membrane Proteins - Cytochrome C oxidase, Photosystem I
- DBC 79 Oxoacid dehydrogenases - Pyruvate dehydrogenase : reactions, PDH complex of Escherichia coli
- DBC 81 Tricarboxylic acid cycle : reactions - Tricarboxylic acid cycle
- DBC 82 Tricarboxylic acid cycle : Functions - Tricarboxylic acid cycle: functions

- DBC 83 Respiratory Chain - Components of the respiratory chain, Organization
- DBC 84 ATP synthesis - Redox systems of the respiratory chain, ATP synthase
- DBC 85 Regulation - Respiratory control, Uncouplers,
- DBC 86 Respiration and Fermentation - Aerobic and anaerobic oxidation of glucose,
- DBC 87 Fermentations - Lactic acid and propionic acid fermentation, Alcoholic fermentation, Beer brewing,

CARBOHYDRATE METABOLISM

- DBC 90 Glycolysis - Glycolysis: balance, Reactions, Energy profile
- DBC 91 Pentose Phosphate Pathway - Pentose phosphate pathway : oxidative part, Reactions,
- DBC 92 Gluconeogenesis - Gluconeogenesis
- DBC 93 Glycogen metabolism - Glycogen metabolism, Glycogen balance.
- DBC 94 Regulation - Regulation of carbohydrate metabolism, Fructose 2, 6-bisphosphate,
- DBC 95 Diabetes mellitus - Insulin biosynthesis, Effects of insulin deficiency

LIPID METABOLISM

- DBC 98 Over view - Fat metabolism.
- DBC 99 Fatty acid Degradation - Fatty acid degradation : B- Oxidation, Fatty acid transport,
- DBC 100 Minor pathways of Fatty acid Degradation - Degradation of unsaturated fatty acids ,Degradation of odd-numbered fatty acids
- DBC 102 Fatty acid synthesis - Fatty acid synthase
- DBC 103 Biosynthesis of complex lipid - Biosynthesis of complex lipid, Reactions of fatty acid synthesis
- DBC 104 Biosynthesis of Cholesterol - Cholesterol biosynthesis

PROTEIN METABOLISM

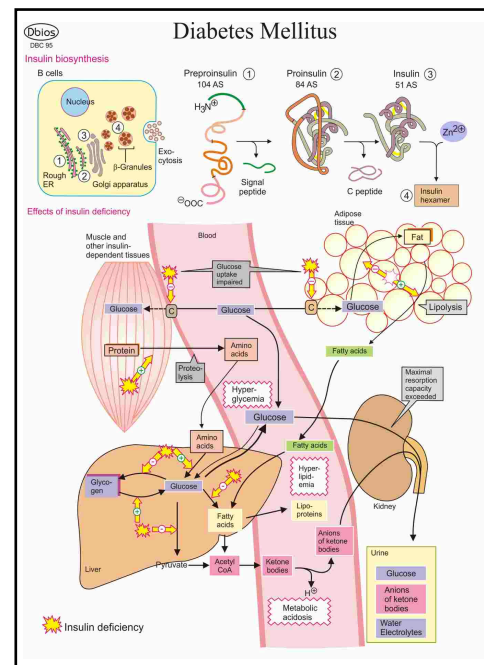
- DBC 105 Protein Metabolism: over view - Protein metabolism : overview
- DBC 106 Proteolysis - Proteolytic enzymes, Proteasome, Serine proteases
- DBC 107 Transamination and Deamination - Transamination and deamination, Mechanism of transamination ,NH₃ or Ammonia metabolism in the liver
- DBC 109 Amino acid degradation - Amino acid degradation: overview, Deamination,
- DBC 110 Urea Cycle - Urea cycle,
- DBC 111 Amino acid biosynthesis - Symbiotic nitrogen fixation, Amino acid biosynthesis: overview

NUCLEOTIDE METABOLISM

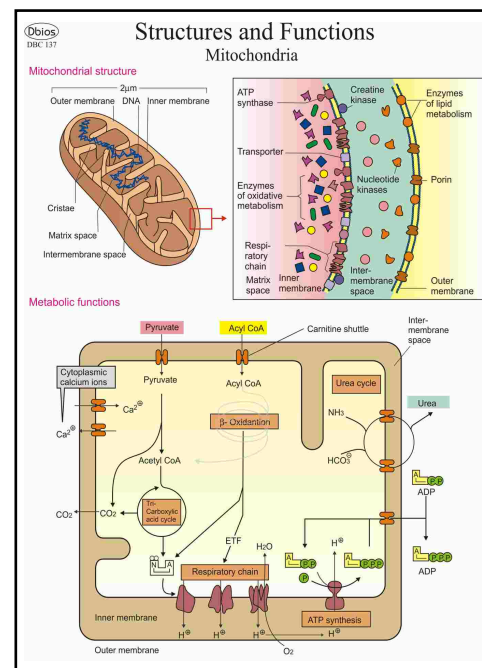
- DBC 114 Nucleotide degradation - Degradation of nucleotides Hyperuricemia (gout)
- DBC 115 Purine and pyrimidine biosynthesis - Components of nucleobases, Pyrimidine and purine synthesis
- DBC 116 Nucleotide biosynthesis - Nucleotide synthesis: overview Ribonucleotide reduction

PORPHYRIN METABOLISM

- DBC 119 Heme bio synthesis - Heme biosynthesis,
- DBC 120 Heme degradation - Degradation of heme groups,



DBC 95



DBC 137

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ORGANELLES

BASIC

- DBC 124 Structure of cell - Comparison of prokaryotes and eukaryotes, Structure of an animal cell
- DBC 125 Cell fractionation - Isolation of cell organelles, Marker molecules,
- DBC 126 Centrifugation - Principles of centrifugation, Density gradient centrifugation
- DBC 127 Cell components and cytoplasm - Components of a bacterial cell, View into a bacterial cell, Biochemical functions of the cytoplasm

CYTOSKELETON

- DBC 131 Components - Actin, Intermediate filaments, Tubulins
- DBC 132 Structure and functions - Microfilaments and intermediate filaments, Microtubules, Architecture
- DBC 135 NUCLEUS - Nucleus, Nuclear pores, Interactions between nucleus and cytoplasm

MITOCHONDRIA

- DBC 137 Structure and Functions - Mitochondrial structure, Metabolic functions
- DBC 138 Transport Systems - Transport systems, Malate and glycerophosphate shuttle,

BIOLOGICAL MEMBRANCES

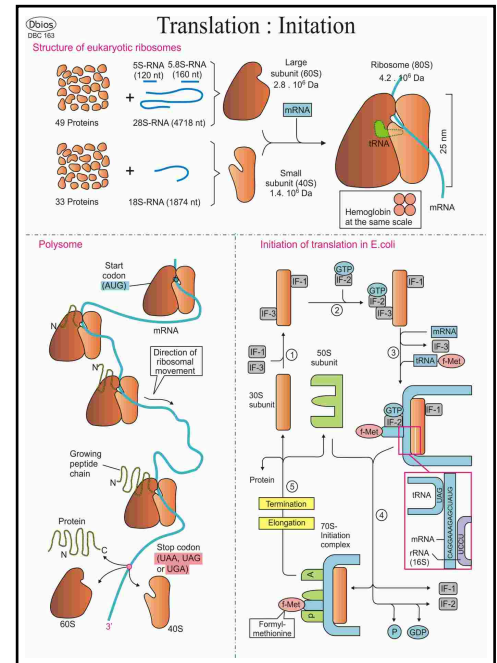
- DBC 141 Structure and Components - Structure of the plasma membrane, Membrane lipids, Membrane protein
- DBC 143 Functions and composition - Functions of membranes, Composition of membranes,
- DBC 144 Transport Processes - Permeability of membranes, Passive and active transport, Transport processes
- DBC 146 Transport proteins - Transport mechanisms, Glucose transporter Glut-1, Aquaporin-1, Sarcoplasmic Ca²⁺ pump.
- DBC 148 Ion channels - Voltage-gated Na⁺ channel, Nicotinic acetylcholine receptor, K⁺ channel in Streptomyces lividans
- DBC -149 Membrane receptors - Principle of receptor action, Insulin receptor, 7-Helix receptors, T-cell receptor.

ENDOPLASMIC RETICULUM AND GOLGI APPARATUS

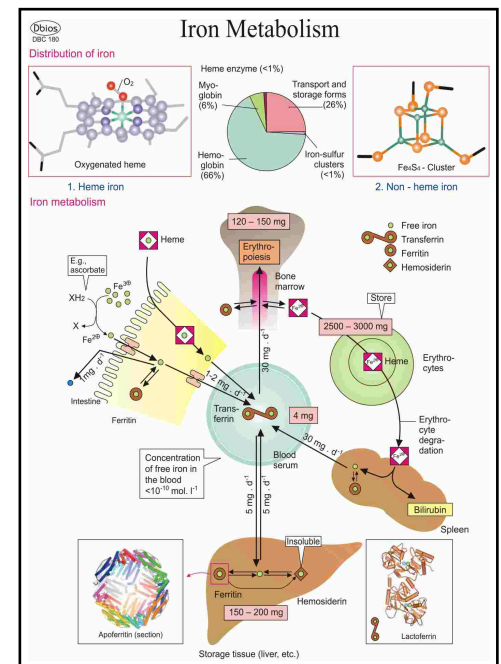
- DBC 150 ER: structure and function - Rough endoplasmic reticulum and Golgi apparatus, Smooth endoplasmic reticulum
- DBC 151 Protein sorting - Protein sorting, Translocation signals, Exocytosis
- DBC 152 Protein synthesis and maturation - Protein synthesis in the rough endoplasmic reticulum, Protein glycosylation
- DBC 153 Protein maturation - Protein folding in the rER, Chaperones and chaperonins, Protein import in mitochondria
- DBC 155 Lysosomes - Structure and contents, Functions, Synthesis and transport of lysosomal proteins

MOLECULAR GENETICS

- DBC 156 Over view - Expression and transmission of genetic information,
- DBC 157 Genome - Chromatin, B. Histone,
- DBC 158 Replication - Mechanism of DNA polymerases, Replication in E. coli,
- DBC 159 Transcription - Transcription and maturation of RNA: overview, Organization of the PEP-CK gene, Process of transcription
- DBC 160 Transcriptional Control - Initiation of transcription, Regulation of PEP-CK transcription,
- DBC 161 RNAMaturation - 5' and 3' modification of m RNA, Splicing of h nRNA, Spliceosome
- DBC 162 Amino acid activation - The genetic code, Amino acid activation Asp-tRNA-Ligase (Dimer)
- DBC 163 Translation 1: initiation - Structure of eukaryotic ribosomes, Polysome Initiation of translation in E. Coli.



DBC 163



DBC 180

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- DBC 164 Translation 11: elongation and termination - Elongation and termination of protein biosynthesis in E. Coli
- DBC 165 Antibiotics - Antibiotics: overview, Intercalators, C. Penicillin as "suicide substrate"
- DBC 166 Mutation and Repair - Mutagenic agents, Effects, Repair mechanisms
- GENETIC ENGINEERING**
- DBC 167 DNA cloning - Restriction endonucleases, DNA cloning,
- DBC 168 DNA sequencing - Gene libraries, Sequencing of DNA,
- DBC 169 PCR and protein expression - Polymerase chain reaction (PCR), DNA electrophoresis, Over expression of proteins
- DBC 170 Genetic engineering in medicine - DNA fingerprinting, Diagnosis of sickle-cell anemia using RFLP, Evidence of viral DNA using RT-PCR, Gene therapy.
- TISSUES and ORGANS**
- DIGESTION**
- DBC 171 Overview - Hydrolysis and resorption of dietary constituents.
- DBC 172 Digestive secretions - Digestive juices,
- DBC 173 Digestive processes-Formation of hydrochloric acid, Zymogen activation Fat digestion,
- DBC 174 Resorption - Monosaccharides, Lipids,
- BLOOD**
- DBC 175 Composition and functions - Functions of the blood, Cellular elements, Blood plasma: composition
- DBC 175 Plasma proteins - Plasma proteins, Electrophoresis,
- DBC 176 Lipoproteins - Composition of lipoprotein complexes, Transport functions
- DBC 177 Hemoglobin - Hemoglobin: structure, Hemoglobin: allosteric effects,
- DBC 178 Gas transport- Regulation of O₂ transport, Hemoglobin and CO₂ transport, Hemoglobin and CO₂ transport.
- DBC 179 Erythrocyte metabolism - Reactive oxygen species, Biological antioxidants, Erythrocyte metabolism,
- DBC 180 Iron metabolism - Distribution of iron, Iron metabolism,
- DBC 181 Acid-base balance - Hydrogen ion concentration in the blood plasma, Acid-base balance, Buffer systems in the plasma
- DBC 182 Blood clotting - Blood clotting,
- DBC 183 Fibrinolysis blood groups - Fibrinolysis, Blood groups: the ABO system
- IMMUNE SYSTEM**
- DBC 184 Immune response - Simplified scheme of the immune response,
- DBC 185 T-cell activation - Antigen receptors, T cell activation,
- DBC 186 Complement system - Complement activation,
- DBC 188 Antibodies - Domain structure of immunoglobulin G, Classes of immunoglobulins.
- DBC 189 Antibodies biosynthesis - Variability of immunoglobulins, Origins of antibody variety, Biosynthesis of a light chain.
- DBC 190 Monoclonal antibodies, immunoassay - Monoclonal antibodies Immunoassay
- LIVER**
- DBC 191 Functions - Diagram of a hepatocyte, Functions of the liver, Liver metabolism
- DBC 192 Buffer Function in organ metabolism - Absorptive state, Postabsorptive state
- DBC 193 Carbohydrate metabolism - Gluconeogenesis : overview, Fructose and Galactose metabolism
- DBC 194 Lipid metabolism - Lipid metabolism, Biosynthesis of ketone bodies
- DBC 195 Bile acids - Bile acids and bile salts, Metabolism of bile salts,
- DBC 196 Biotransformations - Biotransformations,
- DBC 197 Cytochrome P450 systems - Cytochrome P450-dependent Monooxygenases: reactions, Reaction mechanism,
- DBC 198 Ethanol metabolism - Blood ethanol level, Ethanol metabolism, Liver damage due to alcohol,
- KIDNEY**
- DBC 199 Functions - Functions of the kidneys, Urine formation,
- DBC 200 Urine-Urine ,Organic constituents, Inorganic constituents,
- DBC 201 Function in the acid -base balance - Proton secretion, Ammonia excretion
- DBC 202 Electrolyte and water recycling - Electrolyte and water recycling, Gluconeogenesis,
- DBC 203 Renal hormones - Renal hormones, Renin angiotensin system,
- MUSCLE**
- DBC 204 Muscle contraction - Organization of striated muscle, Mechanism of muscle contraction
- DBC 205 Control of muscle contraction - Neuromuscular junction, Sarcoplasmic reticulum (SR), Regulation by calcium ions
- DBC 206 Muscle metabolism 1 - Energy metabolism in the white and red muscle fibers, Creatine metabolism.
- DBC 207 Muscle metabolism 1 - Cori and alanine cycle, Protein and amino acid metabolism.
- CONNECTIVE TISSUE**
- DBC 208 Bone and teeth - Bone, Teeth
- DBC 209 Calcium metabolism - Functions of calcium, Bone remodeling, Calcium homeostasis,
- DBC 210 Collagens - Structure of collagens, Biosynthesis,
- DBC 211 Extracellular matrix - Extracellular matrix, Fibronectins, Proteoglycans
- BRAIN AND SENSORY ORGANS**
- DBC 212 Signal transmission in the CNS - Structure of nerve cells, Neurotransmitters and neurohormones, Synaptic signal transmission
- DBC 213 Resting potential and action potential - Resting potential, Action potential
- DBC 214 Neurotransmitters - Important neurotransmitters, Biosynthesis of the catecholamines.
- DBC 215 Receptors for neurotransmitters -Receptors for neurotransmitters, Acetylcholine receptors, Metabolism of acetylcholine.
- DBC 216 Metabolism - Energy metabolism of the brain, Glutamate, glutamine, and GABA,
- DBC 217 Sight - Photoreceptor, Signal cascade,
- NUTRITION**
- NUTRIENTS**
- DBC 218 Organic substances - Energy requirement, Nutrients.
- DBC 219 Minerals and trace elements - Minerals,
- VITAMINS**
- DBC 220 Lipid- soluble vitamins - Vitamin supply, Lipid-soluble vitamins.
- DBC 221 Water- soluble vitamins 1 - Water-soluble vitamins I
- DBC 222 Water- soluble vitamins 11 - Water-soluble vitamins II
- HORMONES**
- Hormonal system**
- DBC 223 Basics - A. Hormones: overview, A. Hormonal regulation system
- DBC 224 Plasma levels and hormone hierarchy - A. Endocrine, paracrine and autocrine hormone effects, B. Plasma level dynamics, C. Regulatory circuit, D. Hormone hierarchy

Bio- Chemistry

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LIPOPHILIC HORMONES

- DBC 225 Lipophilic Hormones-A. Lipophilic hormones,
 DBC 226 Metabolism of steroid hormones - Biosynthesis of steroid hormones Inactivation of steroid hormones
 DBC 227 Mechanism of action - Mechanism of action of lipophilic hormones Receptors of lipophilic hormones

HYDROPHILIC HORMONES

- DBC 228 Metabolism of Peptide Hormones - Biosynthesis, Degradation and inactivation,
 DBC 229 Mechanisms of action - Mechanisms of action, Signal transduction by G proteins,
 DBC 230 Second messengers - Cyclic AMP, Inositol 1,4,5-trisphosphate and diacylglycerol, Calcium ions
 DBC 231 Signal cascades - Insulin: signal transduction, Nitrogen monoxide (NO) as a mediator,

OTHER SIGNALING SUBSTANCES

- DBC 232 Eicosanoids -Eicosanoids,
 DBC 233 cytokines - Cytokines, Signal transduction in the cytokines

GROWTH AND DEVELOPMENT

CELL PROLIFERATION

- DBC 234 Cell cycle - Cell cycle,Control of the cell cycle,
 DBC 235 Apoptosis - Cell proliferation and apoptosis, Regulation of apoptosis.
 DBC 236 Oncogenes - Proto-oncogenes: biological role, Oncogene products: biochemical functions.

- DBC 237 Tumors - Division behavior of cells, Transformation,
 DBC 238 Cytostatic drugs- Alkylating agents, anthracyclines, Antimetabolites
 DBC 239 VIRUSES - Viruses: examples, Capsid of the rhino virus,. Life cycle of the human immunodeficiency virus (HIV)
METABOLISM CHARTS
 DBC 240 Calvin cycle - Calvin cycle (plant chloroplasts)
 DBC 241 Carbohydrate metabolism - Carbohydrate metabolism, Biosynthesis of fats and membrane lipids
 DBC 242 Membrane liquids
 DBC 243 Synthesis of ketone bodies and steroids - Synthesis of ketone bodies and steroids
 DBC 244 Degradation of fats and phospholipids - Degradation of fats and phospholipids
 DBC 245 Biosynthesis of the essential amino-acids -Degradation of fats and phospholipids
 DBC 246 Biosynthesis of the non-essential amino-acids - Biosynthesis of the non-essential amino acids
 DBC 247 Amino acid degradation 1 - Amino acid degradation I
 DBC 248 Amino acid degradation 11 - Amino acid degradation II
 DBC 249 Ammonia metabolism - Ammonia metabolism
 DBC 250 Biosynthesis of purine nucleotides - Biosynthesis of purine nucleotides
 DBC 251 Biosynthesis of the pyrimidine nucleotides and - Biosynthesis of the pyrimidine nucleotides and C1 metabolism
 DBC 252 Metabolism nucleotide degradation - Nucleotide degradation

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|--------|--|--------|-----------------------------|--------|-----------------------|
| SP 08 | Theodor Schwann | SBC 27 | Max Henius. | SBC 55 | James D. Watson. |
| SB 09 | Sir Alexander Fleming | SBC 28 | Herman Kalckar. | SBC 56 | Selman Waksman. |
| SP 14 | Karl Landsteiner | SBC 29 | Sir Bernard Katz. | SBC 57 | Raj Shankar. |
| SP 18 | Sanger Fredrick | SBC 30 | John Kendrew. | SBC 58 | Anatoly Sharpenak. |
| SP 23 | Krebs, Sir Hans Adolf | SBC 31 | Sir Ernest Kennaway. | SBC 59 | Arne Tiselius. |
| SP 24 | J.D. Watson & H.F.C. Crick | SBC 32 | Arthur Kornberg. | SBC 60 | Angela Vincent. |
| SP 25 | Jacob & Monod | SBC 33 | Roger D. Kornberg. | SBC 61 | Frederic Vester |
| SC 25 | Friedrich Wöhler. | SBC 34 | Thomas B. Kornberg. | SBC 62 | John Craig Venter. |
| SP 39 | Lehninger | SBC 35 | Maurice Wilkins. | SBC 63 | George J. F. Kohler |
| SC 37 | Sir Humphry Davy | SBC 36 | Phoebus Levene. | SBC 64 | Sir Ernst Boris Chain |
| SP 42 | Sir Ronald Ross | SBC 37 | Choh Hao Li. | SBC 65 | James Bertram Collip |
| SP 44 | Joseph Lister | SBC 38 | John James Rickard Macleod. | SBC 66 | Edward Calvin Kendall |
| | | SBC 39 | Maude Menten. | SBC 67 | Leo Henryk Sternbach |
| SBC 01 | Carl Neuberg, Father of Biochemistry | SBC 40 | Friedrich Miescher. | SBC 68 | Martin Rodbell |
| SBC 02 | B. C. Guha Father of Biochemistry in India | SBC 41 | Peter D. Mitchell. | SBC 69 | Oleh Hornykiewicz |
| SBC 03 | William Astbury. | SBC 42 | Leonor Michaelis. | SBC 70 | Tadeusz Reichstein |
| SBC 04 | Boris Pavlovich Belousov. | SBC 43 | César Milstein. | | |
| SBC 05 | Konrad Emil Bloch. | SBC 44 | Jacques Monod. | | |
| SBC 06 | Paul D. Boyer. | SBC 45 | Kary Mullis. | | |
| SBC 07 | Adrian John Brown. | SBC 46 | Elmer Verner McCollum. | | |
| SBC 08 | Eduard Buchner. | SBC 47 | Marshall Warren Nirenberg. | | |
| SBC 09 | Dean Burk. | SBC 48 | Heinz Fraenkel-Conrat. | | |
| SBC 10 | Robert Corey. | SBC 19 | Rosalind Franklin. | | |
| SBC 11 | Carl Ferdinand Cori. | SBC 20 | Kazimierz Funk. | | |
| SBC 12 | Robert K. Crane. | SBC 21 | David E. Green. | | |
| SBC 13 | Francis Crick. | SBC 22 | Frederick Griffith. | | |
| SBC 14 | Carl Peter Henrik Dam. | SBC 23 | Dorothy Hodgkin. | | |
| SBC 15 | Revaz Dogonadze. | SBC 24 | Paul Nurse. | | |
| SBC 16 | Jack Cecil Drummond FRS. | SBC 49 | Jakub Karol Parnas. | | |
| SBC 17 | Christian de Duve. | SBC 50 | Linus Pauling. | | |
| SBC 18 | Akira Endo. | SBC 51 | Max Perutz. | | |
| SBC 25 | Frederick Gowland Hopkins. | SBC 52 | Samuel Victor Perry. | | |
| SBC 26 | Arthur Harden. | SBC 53 | David Andrew Phoenix. | | |
| | | SBC 54 | Jane S. Richardson. | | |



Albert Lester LEHNINGER



Biochemistry Models



DBCM 1	Glucose	$C_6H_{12}O_6$
DBCM 2	L-Histadine	$C_6H_9N_3O_2$
DBCM 3	Glycerol	$C_3H_8O_3$
DBCM 4	Adenine	$C_5H_5N_5$
DBCM 5	Guanine	$C_5H_5N_5O$
DBCM 6	Thymine	$C_5H_6N_2O_2$
DBCM 7	Uracil	$C_4H_4N_2O_2$
DBCM 8	Steroid	$C_{19}H_{28}O_2$
DBCM 9	Vitamin D	$C_{27}H_{44}O$
DBCM 10	Cholesterol	$C_{27}H_{46}O$
DBCM 11	Cytosine	$C_4H_5N_3O$
DBCM 15	D.N.A.	
DBCM 16	R.N.A.	
DBCM 17	Protein Structure	



RNA



Steroid Testosterone

Superior loose molecular models .
Build Models to show the molecular
structure of biochemical
compounds with these modeling sets

1. Advanced Jr. Atomic Model (47 balls + 35 links)
2. Advanced Sr. Atomic Model (100 balls + 86 links)

First Time
In India

Dbios Biochemistry Model

First Time
In India

DBCM 1	Glucose	$C_6H_{12}O_6$	9800/-
DBCM 2	L-Histadine	$C_6H_9N_3O_2$	9800/-
DBCM 3	Glycerol	$C_3H_8O_3$	9800/-
DBCM 4	Adenine	$C_5H_5N_5$	9800/-
DBCM 5	Guanine	$C_5H_5N_5O$	9800/-
DBCM 6	Thymine	$C_5H_6N_2O_2$	9800/-
DBCM 7	Uracil	$C_4H_4N_2O_2$	9800/-
DBCM 8	Steroid	$C_{19}H_{28}O_2$	9800/-
DBCM 9	Vitamin D	$C_{27}H_{44}O$	9800/-
DBCM 10	Cholesterol	$C_{27}H_{46}O$	9800/-
DBCM 11	Cytosine	$C_4H_5N_3O$	9800/-
DBCM 15	D.N.A.		9800/-
DBCM 16	R.N.A.		9800/-
DBCM 17	Protein Structure		9800/-



RNA



Steroid Testosterone

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Build Models to show the molecular
structure of biochemical
compounds with these modeling sets

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1800/-
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3500/-

First Time
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Dbios Biochemistry Model

First Time
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DBCM 1	Glucose	$C_6H_{12}O_6$	9800/-
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DBCM 5	Guanine	$C_5H_5N_5O$	9800/-
DBCM 6	Thymine	$C_5H_6N_2O_2$	9800/-
DBCM 7	Uracil	$C_4H_4N_2O_2$	9800/-
DBCM 8	Steroid	$C_{19}H_{28}O_2$	9800/-
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