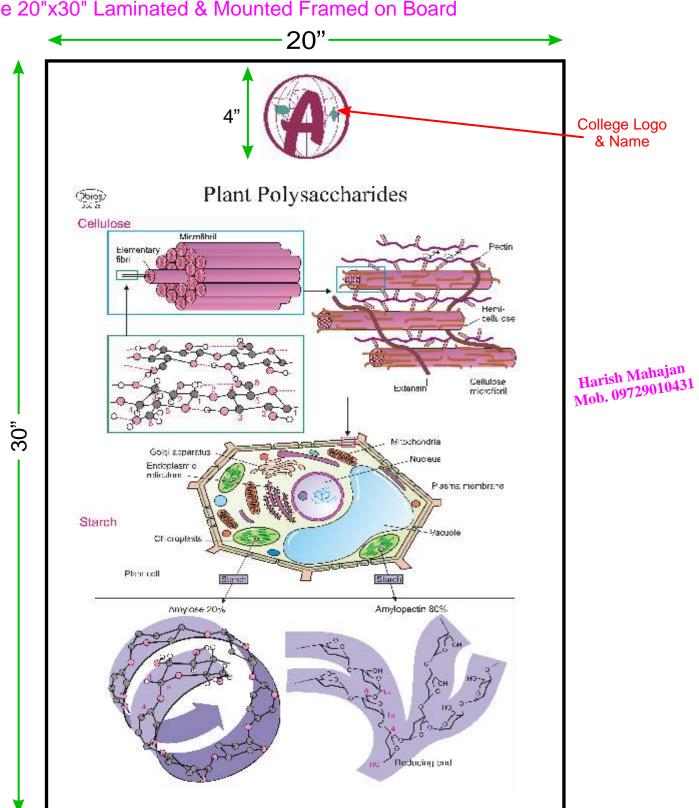
Bio-Chemistr

Customised Charts

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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 recactions 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
- DBC13 Enthalpy and entropy Heat of reaction and calorimetry, Enthalpy and entropy,
- DBC14 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

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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 immunoglobuling (IgG), Glycoproteins

LIPIDS

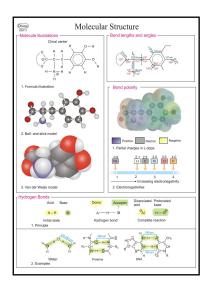
- DBC 28 Overview Classification
- ${\tt DBC\,29} \quad {\sf Fatty\,acid\,and\,fats\,-\,Carboxylic\,acids\,,\,Structure\,of\,fats}$

- 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

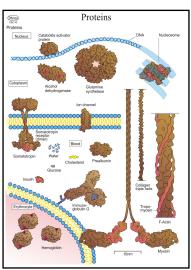
 AMINO ACIDS
- DBC 36 Chemistry and properties Amino acids: functions, Optical activity, Dissociation curve of histidine B27
- DBC 37 Proteinogenic amino acids The proteinogenic amino acids, DBC 38 Non-Proteinogenic amino acids Rare amino acids, Post
 - translational Protein modification, Biogenic amines

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- DBC 40 Overveiw 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 03



DBC 40

Bio- Chemistry (Dbios



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DBC 46	Molecule	models	:	Insulin	-	Structure	of	insulin,Insulin
	(monomer)							

DBC 47 Isolation and analysis of proteins Saltprecipitation, Dialysis, Gel filtration, SDS gel electrophoresis

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- 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,

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- 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 coenzymes1.
- DBC 63 Coenzymes 3 Group-transferring coenzymes 2
- DBC 64 Activated metabolites Activated metabolites

METABOLIC REGULATION

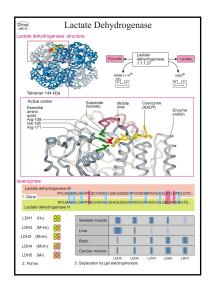
- DBC 66 Intermediary metabolism Intermediary metabolism : overview,
- DBC 67 Regulatory mechanisms Fundamental mechanisms of metabolic regulation
- DBC 68 Allosteric regulation Aspartate carbamoyltransferase : reaction, Kinetics, R and T conformation, Structure of a dimer,
- DBC 69 Transcription Control Functions of regulatory proteins, Lactose operon
- DBC 70 Hormonal Control Principles of hormone action, Hormonal regulation of glucose metabolism in the liver

ENERGY METABOLISM

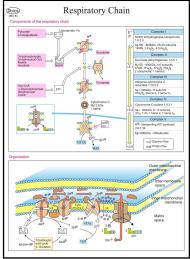
- DBC 73 ATP ATP : structure, Hydrolysis energies, Types of ATP formation
- DBC 74 Energetic Coupling Energetic coupling, Substrate level phosphorylation
- DBC 75 Energetic Conservation at Membrances Electrochemical

gradient, Proton motive force,

- DBC 76 Photosynthesis: Light reaction Photosynthesis: overview, Light reactions
- DBC 77 Photosynthesis: Dark reaction Photosystem II, Redox series, Calvin cycle
- DBC 78 Molecular Model : Membrance 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,



DBC 03



DBC 25



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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

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- DBC 98 Over view Fat metabolism.
- DBC 99 Fatty acid Degrdation 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 Transmination 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

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- 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

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

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- DBC 124 Structure of cell Comparison of prokaryotes and eukaryotes, Structure of an animal cell
- DBC125 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

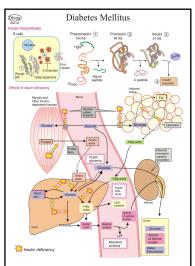
- DBC 131 Components Actin, Intermediate filaments, Tubulins
- DBC 132 Structure and functions Microfilaments and intermediate filaments, Microtubules, Architecture
- DBC 135 NUCLEUS Nucleus ,Nuclear pores, Interactions between nucleus and cytoplasm

MITOCHONDRIA

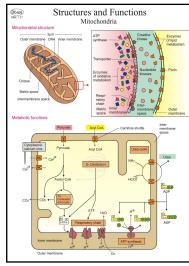
- DBC 137 Stucture and Functions Mitochondrial structure, Metabolic functions
- DBC 138 Transport Systems Transport systems, Malate and glycerophosphate shuttle,

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- 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 Ca⁺² pump.
- DBC 148 Ion channels Voltage-gated Na+ channel, Nicotinic acetylcholine receptor, K + channel in Streptomyces lividans
- DBC -149 Membrance receptors Principle of receptor action, Insulin receptor, 7-Helix receptors, T-cell receptor.



DBC 95



DBC 137

Bio- Chemistry (Dbios



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ENDOPLASMIC RETICULUM AND GOLGI APPARATUS

- DBC 150 ER: structure and function Rough endoplasmic reticulum and Golgi apparatus, Smooth endoplasmic reticulum
- DBC151 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

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- DBC156 Over view Expression and transmission of genetic information,
- DBC 157 Genome Chromatin, B. Histone,
- DBC 158 Replication Mechanism of DNA polymerases, Replication in F. coli
- DBC159 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 RNA Maturation 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: initation Structure of eukaryotic ribosomes, Polysome Initiation of translation in E. Coli.
- 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

- $\ensuremath{\mathsf{DBC}}$ 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 medinice DNA fingerprinting, Diagnosis of sickle-cell anemia using RFLP, Evidence of vira DNA using RT-PCR, Gene therapy.

TISSUSES and ORGANS

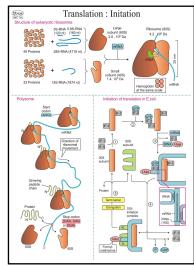
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- DBC 171 Overview Hydrolysis and resorption of dietary constituents.
- DBC 172 Digestive secretions Digestive juices,
- DBC 173 Digestive processes-Formation of hydrochloric acid, Zymogen activation Fat digestion,
- DBC 174 Resorption Monosaccharides, 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

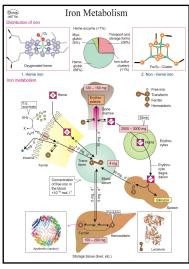
- DBC 177 Hemoglobin Hemoglobin: structure, Hemoglobin: allosteric effects.
- DBC 178 Gas transport- Regulation of O2 transport, Hemoglobin and CO2 transport, Hemoglobin and CO2 transport.
- DBC 179 Erythrocyte metabolism Reactive oxygen species, Biological antioxidants, Erythrocyte metabolism,
- DBC 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 AB0 system

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- DBC184 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.
- DBC189 Antibodies biosynthesis Variability of immunoglobulins, Origins of antibody variety, Biosynthesis of a light chain.
- DBC 190 Monoclonal antibodies, immunoassay Monoclona antibodies Immunoassay



DBC 163



DBC 180



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LIVER

- DBC 191 Functions Diagram of a hepatocyte, Functions of the liver,
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- DBC 192 Buffer Function in organ metabolism Absorptive state,
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- 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,

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- 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,

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- DBC 204 Muscle contraction Organization of striated muscle, Mechanism of muscle contraction
- DBC 205 Control of muscle contraction Neuromuscular junction, Sarcoplasmatic 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 metabolis1 Cori and alanine cycle, Protein and amino acid metabolism.

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- 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

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- DBC 212 Signal transmisssion 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 thecatecholamines.
- 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,

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- DBC 218 Organic substances Energy requirement, Nutrients.
- DBC 219 Minerals and trace elements Minerals,

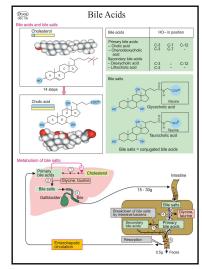
VITAMINS

- 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

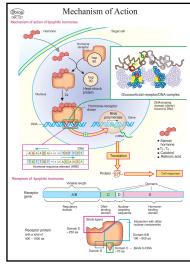
HORMONES

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 LIPOPHILIC HOROMONES
- DBC 225 Lipophilic Horomones-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



DBC 195



DBC 227

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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 1,4,5trisphosphate and diacylglycerol, Calcium ions

DBC 231 Signal cascades - Insulin: signal transduction, Nitrogen monoxide (NO) as a mediator,

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DBC 232 Eicosanoids - Eicosanoids.

DBC 233 cytokines - Cytokines, Signal transduction in the cytokines

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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

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DBC 241 Carbohyrate metabolism - Carbohydrate metabolism, Biosynthesis of fats and membrane lipids

DBC 242 Membrance 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 degardation 1 - Amino acid degradation I

DBC 248 Amino acid degardation 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



Biochemistry Model



You can choose from the ready made 3-D structural models of the commonly used biochemical compounds in Acrylic Showcase

DBCM 1	Glucose	C6H12O6
DBCM 2	L-Histadine	C6H9N3O2
DBCM 3	Glycerol	СзНвОз
DBCM 4	Adenine	C5H5N5
DBCM 5	Guanine	C5H5N5O
DBCM 6	Thymine	C5H6N2O2
DBCM 7	Uracil	C4H4N2O2
DBCM 8	Steroid	C19H28O2
DBCM 9	Vitamin D	C27H44O
DBCM 10	Cholesterol	C27H46O
DBCM 11	Cytosine	C ₄ H ₅ N ₃ O
DBCM 15	D.N.A.	
DBCM 16	R.N.A.	

DBCM 17 Protein Structure

C27H44O

VITAMIN - D

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

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SB 09	Sir Alexander Fleming	SBC 26	Arthur Harden.
SP 14	Karl Landsteiner	SBC 27	Max Henius.
SP 18	Sanger Fredrick	SBC 28	Herman Kalckar.
SP 23	Krebs, Sir Hans Adolf	SBC 29	Sir Bernard Katz.
SP 24	J.D. Watson & H.F.C. Crickk	SBC 30	John Kendrew.
SP 25	Jacob & Monod	SBC 31	Sir Ernest Kennaway.
SC 25	Friedrich Wöhler.	SBC 32	Arthur Kornberg.
SP 39	Lehninger	SBC 33	Roger D. Kornberg.
SC 37	Sir Humphry Davy	SBC 34	Thomas B. Kornberg.
SP 42	Sir Ronald Ross	SBC 35	Maurice Wilkins.
SP 44	Joseph Lister	SBC 36	Phoebus Levene.
		SBC 37	Choh Hao Li.
SBC 01	3, · · · · · · · · · · · · · · · · ·	SBC 38	John James Rickard Macleoo
SBC 02	B. C. Guha Father of Biochemistry in India	SBC 39	Maude Menten.
		SBC 40	Friedrich Miescher.
SBC 03	William Astbury.	SBC 41	Peter D. Mitchell.
SBC 04	Boris Pavlovich Belousov.	SBC 42	Leonor Michaelis.
SBC 05	Konrad Emil Bloch.	SBC 43	César Milstein.
SBC 06	Paul D. Boyer.	SBC 44	Jacques Monod.
SBC 07	Adrian John Brown.	SBC 45	Kary Mullis.
SBC 08	Eduard Buchner.	SBC 46	Elmer Verner McCollum.
SBC 09	Dean Burk.	SBC 47	Marshall Warren Nirenberg.
SBC 10	Robert Corey.	SBC 19	Heinz Fraenkel-Conrat.
SBC 11	Carl Ferdinand Cori.	SBC 20	Rosalind Franklin.
SBC 12	Robert K. Crane.	SBC 21	Kazimierz Funk.
SBC 13	Francis Crick.	SBC 22	David E. Green.
SBC 14	Carl Peter Henrik Dam.	SBC 23	Frederick Griffith.
SBC 15	Revaz Dogonadze.	SBC 24	Dorothy Hodgkin.
SBC 16	Jack Cecil Drummond FRS.		
SBC 17	Christian de Duve.		
SBC 18	Akira Endo.		

BC 25	Frederick Gowland Hopkins.	SBC 48	Paul Nurse.		
BC 26	Arthur Harden.	SBC 49	Jakub Karol Parnas.		
BC 27	Max Henius.	SBC 50	Linus Pauling.		
BC 28	Herman Kalckar.	SBC 51	Max Perutz.		
BC 29	Sir Bernard Katz.	SBC 52	Samuel Victor Perry.		
BC 30	John Kendrew.	SBC 53	David Andrew Phoenix.		
BC 31	Sir Ernest Kennaway.	SBC 54	Jane S. Richardson.		
BC 32	3	SBC 55	James D. Watson.		
	Roger D. Kornberg.	SBC 56	Selman Waksman.		
BC 34		SBC 57	Raj Shankar.		
BC 35		SBC 58	Anatoly Sharpenak.		
	Phoebus Levene.	SBC 59	Arne Tiselius.		
	Choh Hao Li.	SBC 60	Angela Vincent.		
BC 38		SBC 61	Frederic Vester		
BC 39		SBC 62	John Craig Venter.		
	Friedrich Miescher.		· ·		
-	Peter D. Mitchell.	Get Carl Alexander Nemberg			
-	Leonor Michaelis.				
	C 43 César Milstein.		ar.		
BC 44	Jacques Monod.				



Carl Alexander Neuberg