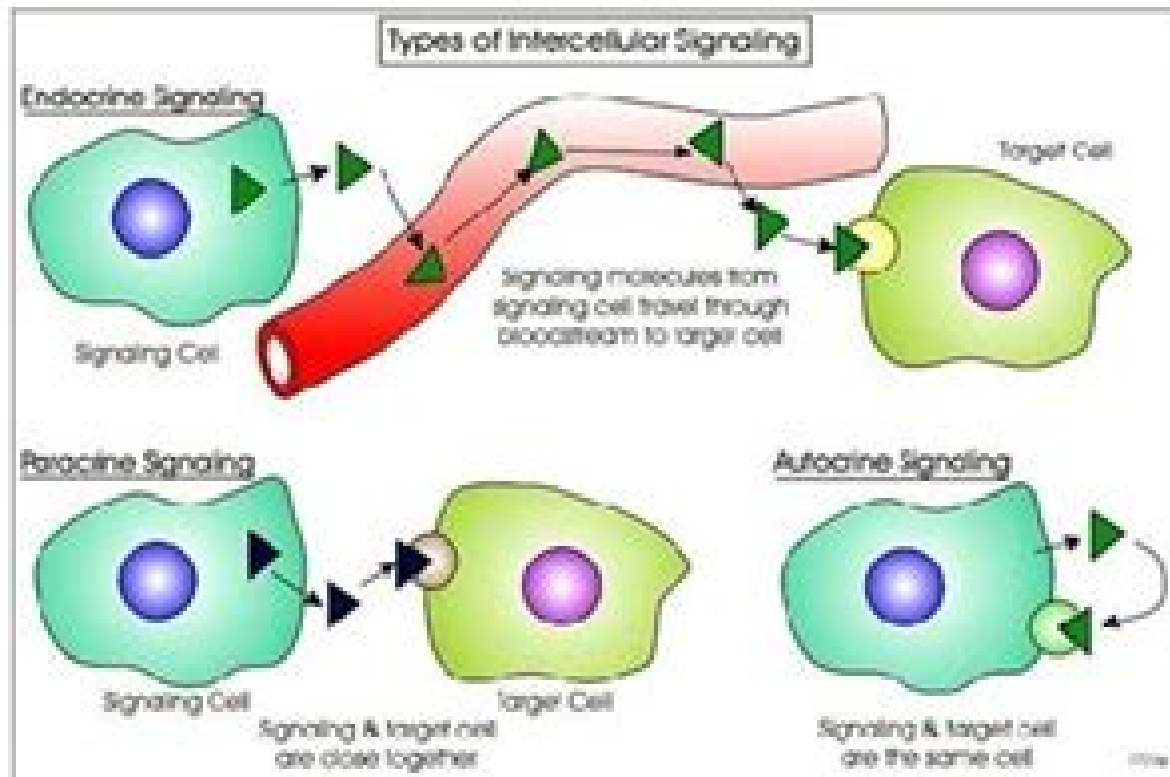


Ch.11: Cell Communication



Biology Guide Cell Communication

Arshad Iqbal



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Notes Mechanism of Translation II Elongation and Termination Notes Messenger RNA Processing I Splicing Notes Messenger RNA Processing II Capping and Polyadenylation Notes Methods of Molecular Biology Notes Molecular Cloning Methods Notes Molecular Nature of Genes Notes Molecular Tools for Studying Genes and Gene Activity Notes Operons Fine Control of Prokaryotic Transcription Notes Other RNA Processing Events Notes Posttranscriptional Events Notes Ribosomes and Transfer RNA Notes Transcription Activators in Eukaryotes Notes Transcription in Eukaryotes Notes Transcription in Prokaryotes Notes Transposition8 Genomes Notes Molecular Biology Lecture Notes PDF covers terms definitions and explanations A Helix A DNA A form DNA AAA Proteins Abasic Site Abortive Initiation Accommodation Acid Dissociation Constant K Acridine Activation Energy G Activation Activator Active Site ADAR Adenine Adenylylation Step Adult Stem Cells Affinity Chromatography Alkylation Allele Allopatric Speciation Allosteric Enzyme Allosteric Modulator Allosteric Protein Alternative Splicing Ames Test Amino Acids Amino Terminus N tenninus Aminoacyl tRNA Synthetisis Aminoacyl tRNA Amphipathic Helix Amphipathic o Analyte Annealing Anticodon Antiparallel AP Endonucleases Apo Protein Apoenzyme Aqueous Solution Archaea ATP Coupling Stoichiometry AU Rich Elements ARE Auto Inhibition Autoradiography Autosome and Auxotrophic Mutant Auxotroph Molecular Biology Complete Notes PDF covers terms definitions and explanations B DNA B form DNA Bacteria Bacterial Transduction Barr Body Base Pair Base Pairing Base Stacking Basic Helix Loop Helix Motif Basic Leucine Zipper Motif Binding Energy G8 Binding Site Biochemical Standard Free Energy Change G 0 Biological Information Blunt Ends Bond Angle Branch Migration Branch Point BRCA 1 BRCA 2 Bromodomain Buffer Solution and Buffering Capacity Molecular Biology Notes PDF covers terms definitions and explanations cAMP Receptor Protein CRP Cap Binding Complex CBC Carboxyl Terminus C terminus Carcinogen Catalysis Catalyst Catenane cDNA Library Cell Cycle Cell Theory Cell Cellular Function Centromere Centrosome Chain Topology Diagram Chaperone Chaperonins Chemical Bond Chemical Reaction and Chemical Shift Molecular Biology Notes Book PDF covers terms definitions and explanations DNA deoxyribonucleic acid DNA cloning DNA genotyping DNA glycosylase DNA library DNA ligase DNA looping DNA microarray DNA nuclease DNA over winding DNA photolyase DNA polymerase a pol a DNA polymerase e pol e DNA polymerase DNA polymerase iv DNA polymerase s pol o DNA replication DNA strand invasion DNA supercoiling DNA topology DNA under winding DNA binding transcription activator b DNA b form DNA and cDNA library Molecular Biology Notes Book PDF covers terms definitions and explanations Holoenzyme Homeodomain Motif Homeotic Gene Homing Endonucleases Homologous Chromosomes Homologous Recombination Homologs Homooligomer Homotropic Homozygous Hoogsteen Pairing Hoogsteen Position Horizontal Gene Transfer Hormone Response Element Housekeeping Gene Hox Gene Hybrid Duplex Hybrid Hydrogen Bond Hydrolysis Hydrophobic Hyperchromic Effect Hypersensitive Site and Hypothesis And many more definitions and explanations

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saptapad rtha Definition and types of pram prameya pram t pram a and pram a catu aya 14 pram a Definition and types ptopade a pratyak a anum na and yukti pram a Origin of dravya Definition and types k ra a and k rya dravya 15 au adha and h ra dravya yu ya an yu ya dravya Basic concept of rasa pa caka dravya n ma r pa gu a karma yoga prayoga sa yoga vij na 16 Basic concept classification and application gu a v rya and vip ka Basic concept of karma and its classification dravya in accordance with karma and its uses in health and disease 17 Rasa Shastra and bhai ajya Kalpana Origin and Development of rasa stra and bhai ajya kalpan rasa Definition Types of rasa odhana prak ra and sa sk ra uparasa s dh ra a rasa ratna and uparatna Definition Types of odhana and m ra a 18 Principles of au adha nirm a j ra a m ra a satvap tana nirv pa and v pa Basic concept of bhai ajya kalpan rasa l Conventional and Contemporary aspects Good Collection Practices and Good Manufacturing Practices 19 Basic Pharmaceutical dosage forms and Secondary dosage forms of yurveda Definition of pu a its types and use in various pharmaceutical forms au adha sevana k la and au adha sevana m rga 20 Pharmacopeia yurvedic Pharmacopoeia of India API Introduction development and importance yurvedic Formulary of India AFI Introduction development and importance Drugs and Cosmetics Act 1940 in relation to ASU Drugs and Standardization of ASU drugs Extra pharmacopoeial drugs Anukta dravya not finding place in Ayurvedic Classics Knowledge of pharmaco vigilance in yurveda and conventional system of medicine Pharmacogenomics of active compounds of yurveda and multi omics approach 21 Disease Biology Definition of disease Etiology and Pathology Congenital and Acquired diseases Communicable and Non communicable diseases Genetic and Epigenetic factors in health and diseases Autoimmune diseases and Lifestyle disorders Deficiency and Metabolic diseases Psychological disorders Benign tumors and various types of cancers 22 Microbiology Historical perspectives of Microbiology Immunization Epidemics and Pandemics Antimicrobial resistance Immune response by microorganisms Sterilization and disinfection Microbial Diversity and Physiology Gut Brain axis GBA and Microbiome 23 Microorganisms isolation and characterization culture media Environmental microflora Bio remediation Dairy microbiology Indicator organisms and tests and water borne diseases Genetic Recombination Transformation Conjugation and Transduction 24 Immunology Role of RBCs WBCs platelets and plasma proteins in immune mechanisms Biophysics of Immune System Structure of antigen and antibody molecules Antigen recognition by T cell and B cells B cell receptors TCR gene rearrangement antigen presentation and MHC HLA complex Antigen antibody reactions Innate immune cells Pathogen associated molecular pattern PAMP Pathogen recognition receptors PRR and Complement system Natural and Acquired immunity cell mediated immunity and toxicity and cytokines Immunopathology and autoimmune diseases transplant rejection and allergy Immunomodulators Antibody isolation and purification ELISA immunoblotting immunohistochemistry immunoprecipitation immune cell isolation flow cytometry and Immunotherapy History of vaccines attenuated vaccine heat killed vaccine subunit vaccine recombinant vaccine DNA vaccine RNA vaccine dendritic cell based vaccine Virus Like Particles adjuvants and their role in vaccine 25 Genetics and Ayurgenomics Principles of Inheritance and Variation Historical

Perspectives of Genetics Human genome and its evolution Exploring genotype to phenotype correlation Multi OMIC and its correlation with do aprak ti and medicinal plants 26 Basics of human genomics regulatory mechanisms of genetic variation its role in health diseases and adaptation including drug response Population genomics Disease genomics Pharmaco genomics Nutrigenomics and scientific approaches and initiatives towards discovery of biomarkers Approach limitation and challenges in discovery development and delivery of P4 and P5 Predictive Preventive Personalized Participatory and Promotive medicinal aspects of yurveda 27 Cell and Molecular Biology Plant and animal cells Structure and Function Early evidences and Experiments of DNA as the genetic material Chemistry of Nucleic acids Nucleotides Chargaff s rule Watson Crick model and forms of DNA types of RNAs Concept of gene and genome difference between prokaryotes and eukaryotic genes C value paradox Triplexes quadruplexes and aptamers 28 DNA replication conservative semi conservative and dispersive models DNA replicative enzymes and mechanisms of DNA replication Types of gene mutations base substitution frame shift mutation insertion deletion missense nonsense reverse suppressor and lethal mutations DNA damage and repair mechanisms Gene expression and regulation in prokaryotes structure of prokaryotic gene structure and functions of RNA polymerase and its subunits Mechanism of Gene Transcription and Translation Genetic code Gene structure expression and regulation in eukaryotes RNA polymerases Post transcriptional modifications and Operon concept Basic concepts of Genetic Engineering and Biotechnology 29 Physiology Fundamentals of human physiology and cellular function Digestive System Digestion Absorption and Metabolism Respiratory and Circulatory Systems Breathing and exchange of gases Body fluids and circulation Nervous Systems Central and Autonomic nervous system Neurophysiology and Cerebrospinal fluids 30 Excretory and Endocrine Systems Excretory products and their elimination from the body acid base regulation Endocrine glands and Hormonal functions Reproductive System Human reproductive physiology and Embryonic development Voluntary and Involuntary movements and their coordination 31 Biochemistry Concept of atoms and molecules molecular interactions stereochemistry and their importance in biological systems Carbohydrate chemistry and metabolism Disorders associated with carbohydrate metabolism Lipid chemistry and metabolism Disorders associated with lipid metabolism Lipidomics Chemistry and metabolism of Proteins and Amino acids Ramachandran plot primary secondary tertiary and quaternary structure of proteins Mechanisms and specificity of Enzymes Coenzymes and Cofactors Disorders associated with protein and amino acid metabolism proteomics Heme synthesis and disorders Structure function and metabolisms of nucleic acids DNA and RNA 32 Nanotechnology Physical properties and types of the nanoparticles Nanoparticles of various basic pharmaceutical forms of yurveda and Green nanotechnology Synthesis of nanomaterials using different methods Molecular basis of biosynthesis of nanomaterials assessment of plant animal and mineral based drugs for nanomaterials Characterizations of nanoparticles transmission electron microscope TEM scanning electron microscope SEM fluroscence microscopy atomic force microscope AFM Energy dispersive X ray spectroscopy EDX UV visible absorption

photoluminescence Fourier transform infrared spectroscopy FTIR Atomic absorption spectroscopy AAS and dynamic light scattering spectroscopy DLS Nanomaterials in bio sensors and other applications and Interaction of nanomaterials Molecular basis of nano formulations 33 Biodiversity and Environmental Health Biodiversity of Medicinal plants and animals Concept and Practices of environmental health Pathways for synthesis of primary and secondary metabolites and their uses Pharmacological properties of secondary and active metabolites of medicinal plants used in yurveda Concept of ecosystem structure function and types of ecosystem energy flow in an ecosystem food chain food web and ecological succession 34 Biodiversity and its conservation Levels of biological diversity biogeography zones of India biodiversity patterns and global biodiversity hot spots India as a megabiodiversity nation Renewable and non renewable biological resources and their importance in longevity of life Degradation of biodiversity loss of medicinal plants and animal life and its impact on indigenous knowledge 35 Intellectual Property Rights IPR Concept meaning and types of Intellectual Property IP Origin nature philosophy and importance of Intellectual Property Rights IPR Current Best Practices CBP and legal framework of IPR Protection of Traditional Knowledge System TKS prevention of bio piracy and bioprospecting benefits to national economy conservation of environment protection of livelihood of TK stake holders TKS and innovation in Indian medicine system Introduction to the Indian patent office and National Biodiversity Authority and their role in the protection of TKS Different types of IPR protection in India Indian Legislations Patents Act of India 1970 Biological Diversity Act 2002 Convention of Biological Diversity 1992 Plant Protection Variety and Farmers Rights Act 2001 and Geographical Indication Act 1999 etc with respect to TKS The role of databases and registers in the legal protection of TKS Traditional Knowledge Digital Library TKDL through World Intellectual Property Organisation WIPO WTO TRIPS World Intellectual Property Organisation WIPO Convention on Biological Diversity CBD FAO Nagoya Protocol on access and benefit sharing 36 Entrepreneurship Definition of Entrepreneur Entrepreneurial traits and Entrepreneur versus Manager Entrepreneurial decision processes Ethical Legal and Socio cultural responsibilities Opportunities for Entrepreneurs in relation to food and drugs of Ayurveda for wellness Innovations and new ideas in yurveda R Entrepreneurship development programs of public and private agencies MSME Ministry of Ayush Make in India Challenges in yurveda industry and decision making Patenting and Commercialization strategies Laboratory to market strategies and processes of negotiation with financiers government and regulatory authorities Pricing strategy challenges in marketing in yurveda business Distribution channels supply chain Analysis and management of customer needs Business preparation including statutory and legal requirements business feasibility study Financial management in capital procurement and cost management Collaborations and partnership 37 Research Methodology Research Methodologies and Bioethics in yurveda Fundamental principles based research in yurveda Food and drug based research in Ayurveda Pre clinical and Clinical trials types protocol designing and data management in accordance with the principles of yurveda 38 Various extraction methods of plant materials Concept of polarity for extraction and

Solvents used for the extraction Purification of bioactive compounds through various chromatographic methods Identification of Functional Groups in Phytochemicals 39 Biostatistics Average Mean Mode Median Descriptive statistics Various Statistical tests of significance and Analysis of variance Power and sample size calculation and Basic Principles of Statistical Inference Correlation analysis Regression analysis and Survival analysis Genome Mapping Statistics and Bioinformatics Types of data and its classification multi dimensional data big data meta data linear algebraic treatment to data matrices eigen values and eigenvectors and singular value decomposition Exploratory data analysis descriptive statistics and inferential statistics 40 Ayurveda informatics Chronological Development of yurvedic drug manufacturing industries Government policies and initiatives for the development of yurveda as traditional System of Medicine of India for the wellbeing of the world Ordinance Rules and Regulations in the manufacturing of quality safety and efficacy of yurvedic drugs for the consumers Review of important modern works on classical medicinal plants published by Ministry of AYUSH and ICMR Govt of India Important organizations of Ayurveda National Commission for Indian System of Medicine NCISM Central Council for Research in yurvedic Sciences CCRAS yurvedic Pharmacopeia commission National Medicinal Plants Board and Traditional Knowledge Digital Library TKDL etc Research publication portals in yurveda and contemporary medical science DHARA PubMed Ayush Research Portal Bioinformatics Centre and Research Management Informatic System Use of modern technology to confirm the various fundamental principles drug research and development for communicable and non communicable diseases Health informatics in yurveda in present global scenario

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Table of Contents Biology Guide Cell Communication

1. Understanding the eBook Biology Guide Cell Communication
 - The Rise of Digital Reading Biology Guide Cell Communication
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Guide Cell Communication
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Guide Cell Communication
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Guide Cell Communication
 - Personalized Recommendations
 - Biology Guide Cell Communication User Reviews and Ratings
 - Biology Guide Cell Communication and Bestseller Lists
5. Accessing Biology Guide Cell Communication Free and Paid eBooks
 - Biology Guide Cell Communication Public Domain eBooks
 - Biology Guide Cell Communication eBook Subscription Services
 - Biology Guide Cell Communication Budget-Friendly Options

6. Navigating Biology Guide Cell Communication eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Guide Cell Communication Compatibility with Devices
 - Biology Guide Cell Communication Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Guide Cell Communication
 - Highlighting and Note-Taking Biology Guide Cell Communication
 - Interactive Elements Biology Guide Cell Communication
8. Staying Engaged with Biology Guide Cell Communication
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Guide Cell Communication
9. Balancing eBooks and Physical Books Biology Guide Cell Communication
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Guide Cell Communication
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Guide Cell Communication
 - Setting Reading Goals Biology Guide Cell Communication
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Guide Cell Communication
 - Fact-Checking eBook Content of Biology Guide Cell Communication
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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