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THORNTON HOLMES

The Biology of Cell Reproduction S. Chand Publishing

The Cell: Organisation, Functions and Regulatory Mechanisms is a textbook written for students and scholars studying cell biology at various levels. The study of cell biology is an essential component of the syllabi at undergraduate and postgraduate levels in universities and colleges that offer courses in biochemistry, biotechnology, genetics, molecular biology, immunology, zoology, botany, toxicology and medical, nursing, paramedical, pharmaceutical and agricultural sciences. This book provides a perfect blend of basic and applied knowledge in the area of cell sciences using the latest examples and experiments. It includes chapters on the structure and composition of the cell its constituent structures and molecules properties of these structures and molecules as well as the various regulatory mechanisms of cellular processes in both healthy and diseased states. The simplicity of the language used ensures that it can be understood by students who are non-native speakers of English and also by scholars who do not have an in-depth knowledge of the subject but would like to get acquainted with it while working in their respective areas of study.

Chordate Embryology New Central Book Agency

Cell Biology covers one of the most fundamental and elaborately studied areas of biology: the cell. The cell is the basic unit of life and has all the structural and functional properties required for life. The book has been divided into 20 chapters-beginning with the origin of biological systems and ending with tools for the study of cells. Every effort has been made to include the most recent information. Each chapter is provided with an adequate number of illustrations. This book can serve as a basic textbook for students of molecular biology, genetics, biochemistry, agriculture and biotechnology, or as a reference book for those interested in learning the fundamentals of cell biology, in particular, the origin, organization and functions of subcellular components and cell types.

Cell organisation and Function Van Nostrand Reinhold Company

Product Dimensions: 21x15x3 cm. 10 edition. Contents: CONTENTS:1.Introduction 2.Cellular Basis of Development 3.DNA, RNA and Protein Synthesis 4.Male Gonads and Spermatogenesis 5. Female Gonadsand Oogenesis 6.Semination, Ovulation and Transportation of Gametes 7.Reproductive Cycles . Fertilization 8 Parthenogemsis 9 Cleava and Blastulation - Nucleus and Cytoplasm in Development 10 Fate Maps and Cell Lineage, Gastrulation , Neurulation, Morphgenesis and Growth 11 Embryogenesis of a Simple Ascidian - Embryogenesis of Amphioxus 12 Embryogenesis of Frog 13. Detailed Account of Organogenesis of Frog lEmbryogenesis of Chick.14 Early Embryogenesis of Eutherian Mammal 15 Rabbit Placenta and Placentation 16 Gradient Theory lEmbryonic Inductions and Competence 17 Differentiation Asexual Reproduction and Blastogenesis 18 Regeneration 19 Metamorphosis 20Teratogenesis 21 Birth Control 22 Impotency, Sterility, Artificial Insemination, Test-tube Baby and GIFT, Giossary 23 Selected Reading 24 Index.

Cell and Molecular Biology New Age International

Reader-friendly Cell Biology, 4th Edition, provides a concise but comprehensive foundation for students entering research or health care career paths. Award winning illustrations help readers quickly grasp general principles. The authors have thoroughly updated this popular text to provide readers with the current understanding of the principles of normal cellular function along with examples of how molecular defects predispose to human disease. Major new themes in the 4th edition include the roles of intrinsically disordered polypeptides and phase separation in cellular functions, the influence of new molecular structures on understanding mechanisms, and the impact of exciting new methods—from single cell RNA sequencing to second generation super resolution fluorescence microscopy—on advancing our understanding. Clear, readable

explanations provide a concise story about how cells function at the molecular level. An intuitive chapter flow starts with genome organization, gene expression, and RNA processing as a foundation for understanding every aspect of cellular function and physiology. Brings cellular biology to life for students interested in medical science by explaining how mutations in genes can compromise virtually every cellular system and predispose to human disease. Knowledge of cell biology has led to new treatments for cancer, heart failure, cystic fibrosis, and many other diseases. Unique illustrations with realistic proportions and relationships explain every cellular process including the assembly of SARS CoV-2, the structures attaching mitotic chromosomes to microtubules, the mechanism of DNA replication and how pumps, carriers and channels orchestrate physiological processes from synaptic transmission to cellular volume regulation. Covers exciting breakthroughs such as SMC motor proteins actively organizing chromosomal DNA, TOR kinases regulating metabolism, new types of immunotherapy for cancer treatment, mechanisms regulating fast axonal transport and their relation to neurodegenerative diseases, how completion of DNA replication sets the time for cells to enter mitosis, how a cascade of signals specifies the site of cell division, and newly understood pathways of normal and pathological cell death.

Cell Biology, Genetics and Molecular Biology Discovery Publishing House

Since World War II, cell biology and molecular biology have worked separately in probing the central question of cancer research. But a new alliance is being forged in the effort to conquer cancer. Drawing on more than 500 classic and recent references, Baserga's work provides the unifying background for this cross-fertilization of ideas.

Cell Biology (Cytology, Biomolecules and Molecular Biology) S. Chand Publishing

Pedagogically enriched, the book provides engaging chpter-end assessment exercises to enhance and strengthen learning of the readers

Cell Biology Genetics & Molecular Biology Krishna Prakashan Media

This textbook has been designed to meet the needs of B.Sc. (Hons.) Third Semester students of Zoology as per the new UGC Model Curriculum - Choice Based Credit System (CBCS). Comprehensively written, it explains the essential principles, processes and methodology of Chordata, Physiology and Biochemistry. This textbook is profusely illustrated with well-drawn labelled diagrams, not only to supplement the descriptions, but also for sound understanding of the concepts.

Chordate Embryology S. Chand Publishing

This book explains the essential principles, processes and methodology of cell biology, biochemistry and molecular biology. It reflects upon the significant advances in cell biology such as motor proteins, intracellular traffic and targeting of proteins, signalling pathways, receptors, apoptosis, aging and cancer. It also discusses certain current topics such as history of life (origin of life), archaeobacteria, split genes, exon shuffling, gene silencing, RNA interference, miRNA, siRNA and recombinant DNA technology, etc.

Zoology for Degree Students (For B.Sc. Hons. 3rd Semester, As per CBCS) Academic Press

The revised edition of this bestselling textbook provides latest and detailed account of vital topics in biology, namely, Cell Biology, Genetics, Molecular Biology, Evolution and Ecology . The treatment is very exhaustive as the book devotes exclusive parts to each topic, yet in a simple, lucid and concise manner. Simplified and well labelled diagrams and pictures make the subject interesting and easy to understand. It is developed for students of B.Sc. Pass and Honours courses, primarily. However, it is equally useful for students of M.Sc. Zoology, Botany and Biosciences. Aspirants of medical entrance and civil services examinations would also find the book extremely useful.

Cell Biology, Genetics, Molecular Biology, Evolution and Ecology W H Freeman & Company

The revised edition of this bestselling textbook provides latest and detailed account of vital topics

in biology, namely, Cell Biology, Genetics, Molecular Biology, Evolution and Ecology . The treatment is very exhaustive as the book devotes exclusive parts to each topic, yet in a simple, lucid and concise manner. Simplified and well labelled diagrams and pictures make the subject interesting and easy to understand. It is developed for students of B.Sc. Pass and Honours courses, primarily. However, it is equally useful for students of M.Sc. Zoology, Botany and Biosciences. Aspirants of medical entrance and civil services examinations would also find the book extremely useful.

Cell Biology S. Chand Publishing

The Cell—Prokaryotic and Eukaryotic Cell Organelles: Structure and Function Microscopy and Micrometry Virus World Bacterial Genetics Cellular Reproduction and Death Eukaryotic Chromosomes and Variation DNA—Chemical Nature,Structure and Replication DNA Mutability and its Repair Mechanism Transcription—The Synthesis of RNA Translation—The Synthesis of Protein Regulation of Bacterial Gene Expression Appendix Glossary References Index

Cell Biology, Genetics, Molecular Biology and Evolution S. Chand Publishing

The last two decades the field of cell biology has undergone a veritable revolution, leading to major advances in our understanding of cell structure and function. The Convergence of cytological, genetic and biochemical approaches has generated a rich panorama of detail, the significance of which we are still attempting to unravel. The present title is being written as an introduction to this rapidly growing field. One of the major concerns of this title is to provide students with basic understanding of what a cell is and why the cell is the fundamental unit of life. Our approach throughout has been to focus on the major question involved and the experimental approaches utilized in addressing these questions. Contents: The Cell, Mechanical Events in Cells, Cell Membrane, Cell Wall, Cytology of Vacuoles, Mitochondria, Chloroplasts, Microtubules in Plant Cell, Duplication of Cells, Cytological Events of Cell Division.

Science For Ninth Class Part 3 Biology W S. Chand Publishing

Especially Designed For Students And Professionals, This Text Book Presents Funda-Mentals Of Cell Biology, From Microscopic To The Molecular Level, In A Relevant And User-Friendly Manner, Supported By Excellent Diagrams, Micrographs And Tables.Salient Features * Expanded And Up To Date Coverage Of The Cell, Its Ultrastructure And Molecular Mechanisms In A State Of The Art Style * Describes Metabolic Pathways, Intracellular Protein Traffic And Protein Targeting, Receptors And Gene Regulation * Includes Latest Information On Jak-Stat, Ras And Other Signaling Pathways, And Mechanism Of Apoptosis * Reflects Significant Advances In Cell Biology * Gives Application-Oriented Topics, Such As Ageing, Cancer And Recombinant Dna Technology

Molecular Cell Biology S. Chand Publishing

A series of six books for Classes IX and X according to the CBSE syllabus

Cell Biology, Genetics, Molecular Biology, Evolution and Ecology Elsevier Health Sciences Biotechnology, Besides A Traditional Discipline, Is Advancing Fast Due To Its Application In Agriculture, Pharmaceutical Organizations, Public Health, Environmental Management, Bioenergetics, Geological Explorations And In Various Other Industries, Including As A Mean To Exploit Alternative Sources Of Energy. Developing Nations Are Striving Hard To Merge The Biotechnological Operation Into National Development, Improving Hard Core Economics And Also Seeking Strategies For International Tie Up And Cooperation.The Present Text Has Been Designed To Outline The Basic Concepts In Cell Biology, Genetics, Microbiology And Immunology, Thus Enabling Undergraduate And Postgraduate Students To Understand Fundamental Aspects Of Microbial Biotechnology And Biotechnology.

Cell Biology, Genetics, Evolution and Ecology MJP Publisher

Product Dimensions: 21x15x3 cm. 10 edition. Contents: CONTENTS:1.Introduction 2.Cellular Basis of Development 3.DNA, RNA and Protein Synthesis 4.Male Gonads and Spermatogenesis 5. Female Gonadsand Oogenesis 6.Semination, Ovulation and Transportation of Gametes 7.Reproductive

Cycles . Fertilization 8 Parthenogenesis 9 Cleavage and Blastulation - Nucleus and Cytoplasm in Development 10 Fate Maps and Cell Lineage, Gastrulation , Neurulation, Morphogenesis and Growth 11 Embryogenesis of a Simple Ascidian - Embryogenesis of Amphioxus 12 Embryogenesis of Frog 13. Detailed Account of Organogenesis of Frog |Embryogenesis of Chick.14 Early Embryogenesis of Eutherian Mammal 15 Rabbit Placenta and Placentation 16 Gradient Theory |Embryonic Inductions and Competence 17 Differentiation Asexual Reproduction and Blastogenesis 18 Regeneration 19 Metamorphosis 20Teratogenesis 21 Birth Control 22 Impotency, Sterility, Artificial Insemination, Test-tube Baby and GIFT, Glossary 23 Selected Reading 24 Index.

Cell And Molecular Biology S. Chand Publishing

For Zoology Degree Level Students. Several new diagrams, cytology phenomena have been added afresh In this revised edition, in the first three chapters, the subject matter has been altered as per new cytological advances and latest cytochemical techniques in this century. In chapter one, the

feature of Nobel Prize Recipients has been updated. In chapter two, examples of optical microscopes have been covered in full detail. In chapter three, principles and types of chromatography have been expanded and covered adequately with diagrams. In chapter nine, the title has been altered to 'Golgi Apparatus (Complex)' as per latest specification. New Glossary (with latest cytological terms) has been freshly incorporated.

Cell Biology S. Chand Publishing

Molecular Biology

Cytology New Age International

The book provides discussion on all aspects of Invertebrates as covered in Practical Zoology.

Beginning with general techniques of preparation of cultures of Protozoa, microscopic slides and laboratory regents, it also covers in tabular and detailed form, recent classification of various invertebrate phyla with examples of each order or suborder. Wide coverage of each phylum, and

diagrams of major and minor dissections make the book equally useful for both undergraduate and postgraduate students.

Cell and Molecular Biology New Age International

This book is especially prepared for the students of B.Sc. and M.Sc. of different Indian Universities as per UGC Model Curriculum. Students, preparing for Medical Entrance Examination, IAS, IFS, and PCS etc. will also be benefited by this book. At the end of some chapters of Genetic Engineering may enlighten the target readers. Entirely new information on Quantitative Genetics and Immunogenetics may enthral the readers. MCQ's and answers will also be helpful for the students to strengthen their self confidence. By the help of numerous figures, many tables, boxes and coloured photographs, this book has tried to serve a balanced account of Classical Genetics and Modern Molecular Genetics. • This book is for Graduate, P.G. students of Biophysics, Microbiology & Biological Sciences.