

HOW LIFE BEGINS

SECTION 2: CELL DIVISION AND REPRODUCTION

2.1 CELL DIVISION

1. **Cell division:** the process of dividing of a cell (parent cell) into 2 or more cells (daughter cells)

Cell division = Nuclear Division + Cytokinesis (division of cytoplasm)

Cell Division	Nuclear Division
Mitotic Cell Division	Mitosis
Meiotic Cell Division	Meiosis

2. Chromatin

It consists of DNA and proteins.

Before cell division, the DNA is spreading in the nucleus and does not appear to have any structure under microscope.

DNA coils many times around some proteins to form a chromosome.

3. Chromosome

The characteristics of organisms are determined by the genetic materials inside their cells. Genetic information is carried by DNA which are present in the nucleus of a cell.

DNA is a molecule consists of 2 chains twisted around each other forming a double helix. When the cell is going to have cell division, the DNA is duplicated (doubled).

The DNA is coiled around protein molecules (histone) for many times until it is condensed to form rod-like structure known as chromosome.

As the DNA is duplicated, the 2 DNA molecules are still attached together at the centromere in the chromosome.

The chromosome has 2 chromatids. The 2 chromatids are identical and known as sister chromatids. They will be separated into daughter cells during cell division.



chromatin in nucleus

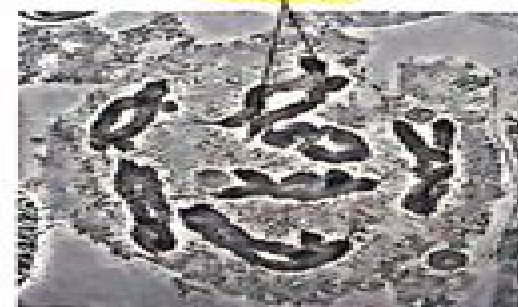


chromosomes

chromatin in nucleus



chromatids



Scientific Essentials Of Reproduction

Robert L Zimdahl



Scientific Essentials Of Reproduction:

Cells and Life Processes Denise Walker, 2009-09-30 Biology **Adaptation and Survival** Denise Walker, 2009-09-30

This series is an introduction to key scientific principles and processes This volume introduces the reader to the ways in which living things adapt to survive life on Earth **Fundamentals of Weed Science** Robert Zimdahl, 2012-12-02

Fundamentals of Weed Science provides an introduction to the basic principles of weed science for undergraduate courses It discusses several aspects of weed biology and control and traces the history of herbicide development The book begins with an introduction to weeds covering their definition characteristics harmful aspects and the cost of weed control This is followed chapters on weed classification the uses of weeds weed biology weed ecology allelopathy the significance of plant competition weed management and control methods and biological weed control Later chapters deal with herbicides the most important weed control tools and the ones with the greatest potential for untoward effects Students of weed science must understand herbicides and the factors governing their use as well as the potential for misuse These chapters discuss chemical weed control the properties and uses of herbicides factors affecting herbicide performance herbicide application herbicide formulation ecological impact of herbicides pesticide registration and legislation weed management systems and the future of weed science **Food, Blood and Bones** Denise Walker, 2006 Food Blood and Bones introduces the reader to

the digestive system the circulatory system and the skeletal system Find out how food becomes a part of you and discover the importance of a balanced diet **Fundamentals of Weed Science** Robert L Zimdahl, 2013-08-09 This book addresses herbicides and their use as an important aspect of modern weed management and strives to place them in an ecological framework Many weed scientists believe agriculture is a continuing struggle with weeds without good weed control good and profitable agriculture is impossible Each agricultural discipline sees itself as central to agriculture's success and continued progress and weed science is no exception While not denying the importance of weed management to successful agriculture this book places it in a larger ecological context The roles of culture economics and politics in weed management are also discussed enabling scientists and students to understand the larger effects on society Information on New herbicides included along with the old herbicides that are important for understanding the history New section on weed resistance to herbicides and genetic engineering New information on invasive plants Expanded chapters on Biological Control Pesticide Legislation and Regulation Weed Management Systems and more Instructor resources can be found at <http://textbooks.elsevier.com/web/Login.aspx> and it is password protected Please contact your sales representative at textbooks.elsevier.com for access to the instructor resources The instructor site consists of chapter questions essay questions an exam and images from the book **Inheritance and Evolution** Denise Walker, 2009-09-30 This series is an introduction to key scientific principles and processes This volume introduces the reader to the development of species on planet Earth Find out how characteristics are inherited and explore the evidence surrounding natural selection evolution and extinction

BIOLOGICAL SCIENCE FUNDAMENTALS AND SYSTEMATICS - Volum III Alessandro Minelli ,Giancarlo Contrafatto ,2009-11-10 Biological Science Fundamentals and Systematics is a component of Encyclopedia of Biological Physiological and Health Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Biological Science Fundamentals and Systematics provides the essential aspects and a myriad of issues of great relevance to our world such as History and Scope of Biological Sciences The Origin and Evolution of Early Life Evolution Classification and Diversity of Life Forms Systematics of Microbial Kingdom s and Fungi Systematic Botany Systematic Zoology Invertebrates Systematic Zoology Vertebrates which are then expanded into multiple subtopics each as a chapter These four volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Fundamentals of Plant Science John Gaylord Coulter,1994-10 Contents The Plant A General External View The Plant A General Internal View Not Altogether About Plants Roots Stems Leaves Flowers Fruits and Seeds The Non Vascular Plants The Vascular Plants FUNDAMENTALS OF BIOCHEMISTRY, CELL BIOLOGY AND BIOPHYSICS - Volume III Ralph Kirby, T.G. Downing and M.I.El Gohary,2010-04-24 Fundamentals of Biochemistry Cell Biology and Biophysics is a component of Encyclopedia Of Biological Physiological And Health Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 3 volume set contains several chapters each of size 5000 30000 words with perspectives issues on Biological Science Foundations Organic Chemicals Involved In Life Processes Carbon Fixation Anaerobic and Aerobic Respiration Biochemistry Inorganic Biochemistry Soil Biochemistry Organic Chemistry And Biological Systems Biochemistry Eukaryote Cell Biology Cell Theory Properties Of Cells And Their Diversity Cell Morphology And Organization Cell Nucleus And Chromatin Structure Organelles And Other Structures In Cell Biology Mitosis Cytokines is Meiosis And Apoptosis Cell Growth Regulation Transformation And Metastases Networks In Cell Biology Microbiology Prokaryotic Cell Structure And Function Prokaryotic Diversity Prokaryote Genetics Prokaryotic Growth Nutrition And Physiology An Introductory Treatise On Biophysics Mathematical Models In Biophysics It is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers *Fundamentals of Evolutionary Biology* Supreet Saini,2025-10-30 Evolution is a stochastic process and given the amount of data generated in biological sciences today there is a pressing need for people with a quantitative background to understand and contribute toward the understanding of evolution leading to better interaction between stakeholders This book equips engineers and physical scientists to make biologically relevant quantitative representations of evolutionary processes The concepts of evolution are introduced via semi quantitative treatment with graphical illustrations and explain how evolution experiments are conducted in a laboratory Features Discusses background concepts of evolutionary biology and experimental evolution Helps readers develop a

geometric view of evolutionary processes Covers both biological and mathematical foundations in equal measure Illustrates coding exercises supported by pertinent MATLAB codes for the provided problems Includes homework problems and a solutions manual This book is aimed at senior undergraduate and graduate students in engineering and physical sciences

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analysts managers and decision makers and NGOs **Anatomy and Physiology for Midwives** Jane Coad,Melvyn Dunstall,2005-01-01 Aimed directly at midwives Anatomy and Physiology for Midwives Second Edition provides a thorough grounding in the structure and functions of the human body associated with childbearing birth and postnatal care This new edition has a fully revised section on how this knowledge can be applied to practice and includes cutting edge information on reproductive cycles and sexual differentiation and behaviour Clear language and illustrations ensure complete understanding and effective learning This text will be invaluable to both practising midwives and midwifery students Book Jacket

Fundamentals of Laboratory Animal Science Enqi Liu,Jianglin Fan,2017-07-28 Laboratory animals are becoming increasingly important for biomedical research It is said that approximately 70% of biomedical research is associated with the use of experimental animals Laboratory animal research not only expands our knowledge of science but also greatly improves human and animal health The field of laboratory animal science is ever growing and changing as new experimental techniques are developed and new animal models are created It is essential to know not only the biological features of each laboratory animal but also how to use and care for them responsibly in order to perform high quality experiments Courses in beginning Laboratory Animal Science are starting to be offered in many universities throughout the world However a practical introductory textbook that contains state of the art techniques is still lacking Fundamentals of Laboratory Animal Science provides comprehensive information on the principles and practices of using laboratory animals for biomedical research Each individual chapter focuses on a key sub discipline of laboratory animal science animal welfare and best humane care practices in the laboratory the quality control of laboratory animals the anatomy physiology and husbandry of commonly used species the principles of creating and using animal models for studying human diseases practical techniques used for laboratory animal experiments experimental design and animal experimentation management Knowledge of this broad spectrum of concepts and skills will ensure research goes smoothly while greatly reducing animal pain and distress Well illustrated and thoroughly referenced this book will serve not only as a standard textbook but also as a handy guide for veterinarians researchers animal care staff administrators and other professionals who are involved in laboratory animal science

Fundamentals of Inorganic and Organometallic Polymer Science Christian Agatemor,Kajal Ghosal,Samuel Fura,Peter J. S. Foot,2023-09-04 Emphasising concepts that inform polymer design synthesis and applications users of this book will gain a complete introduction to inorganic and organometallic polymer science which will further their studies in materials science chemistry and engineering

Green Plants Denise Walker,2009-09-30 Green Plants introduces the reader to the plants that inhabit almost every corner of the globe Find out what plants need to stay healthy learn about how we use them and discover how plants reproduce

Fundamentals of Cheese Science P. F. Fox,2000-02-29 Fundamentals of Cheese Science provides comprehensive coverage of the scientific aspects of cheese emphasizing fundamental principles The book s 23 chapters cover the chemistry and microbiology of milk for cheesemaking starter cultures coagulation of milk by

enzymes or by acidification the microbiology and biochemistry of cheese ripening the flavor and rheology of cheese processed cheese cheese as a food ingredient public health and nutritional aspects of cheese and various methods used for the analysis of cheese The book contains copious references to other texts and review articles This broadly based resource is written for personnel involved in various production and quality control functions in the cheese industry senior undergraduates and post graduate students

Fundamentals of Science Ujang Supriyadi ,2025-09-20 Fundamentals of Science is a book that contains the basics of Chemistry Physics Biology Astronomy and Geology Consist ten scopes of content designed to develop 21st century competencies and also equipped with formative summative assessments and student projects So that very suitable for learners students college teachers lecturers and other readers as reference to better understanding science and its application in daily life The ten scopes of content in the fundamentals of science are 1 Basics of Chemistry 2 Acidity of Substance 3 Quantity and Measurement 4 Matter and its Transformation 5 Solar System 6 Earth and Disaster 7 Life Organization System 8 Classification of Organisms 9 Organisms and Their Environment and 10 Environmental Pollution and Climate Change

Fundamentals of Space Biology Gilles Clément,K. Slenzka,2006-10-28 Fundamentals of Space Biology is the third textbook addressing Space Life Sciences in this Space Technology Library series The first of these books focused on the psychological and psychiatric issues that affect people who live and work in space Volume 16 Space Psychology and Psychiatry The second book described the physiological and medical issues of living in a space environment Volume 17 Fundamentals of Space Medicine The objective of this third book was to review the effects of spaceflight on less complex biological systems from single cells to animals and plants Indeed to better understand the changes at the function level it is necessary to comprehend the changes at cellular and tissue levels Studies of cell cultures for example allow the investigation of the indirect effects of gravity i e those which occur not because of changes in the stimulation of dedicated gravity sensing organs but because of the new physical properties resulting from the reduction in gravitational force within the cell

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