BIOLOGY 12 - CELL STRUCTURE & FUNCTION: Chapter Notes

THE CELL THEORY

- although different living things may be as unlike as a violet and an octopus, they are all built in essentially the same way. The most basic similarity is that all living things are composed of one or more cells. This is known as the Cell Theory.
- our knowledge of cells is built on work done with microscopes
- English scientist Robert Hooke in 1665 first described cells from his observations of cork slices. Hooke first used the word "cell".
- Dutch amateur scientist Antonie van Leeuwenhoek discovered microscopic animals in water
- German scientists Schleiden and Schwann in 1830's were first to say that all organisms are made of one or more cells.
- German biologist Virchow in 1858 stated that all cells come from the division of pre-existing cells.
- Cells are the building blocks of life.

The Cell Theory can be summarized as:

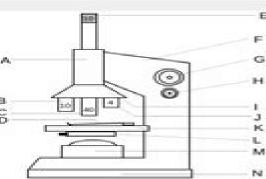
- 1. All living organisms are made up of one or more cells
- 2. The cell is the basic unit of life
- 3. All cells come from the division of pre-existing cells
- cells come in many shapes and sizes, although most are microscopic:
 - most cells are small, about 0.001 cm in length (1/100 of a mm, or 10 μm).
 - the smallest cells of the microorganism mycoplasma are 0.3 µm in size
 - Some cells are large. e.g. some giant algal cells may be several centimeters long. A chicken's egg is a single cell.
 - 40,000 red blood cells would fill the letter "O" on a page of type. You produce about 2.5 million new red blood cells every second! Each square cm of your skin contains about 150,000 skin cells.
 - Human beings are composed of about 50 to 100 trillion cells.
- cells carry on all the processes associated with life, such as reproducing and interacting with the environment.

Microscopy

- The study of cell structure includes the fields of CYTOLOGY (for cells) and HISTOLOGY (for tissues), whereas the function of cells is studied in CELL PHYSIOLOGY, BIOCHEMISTRY, and CYTOGENETICS.
- The first instrument used in studying cell structure was the light microscope, which remains an important tool today. The TRANSMISSION ELECTRON MICROSCOPE and the SCANNING ELECTRON MICROSCOPE have vastly increased our knowledge.
- Before an object can be viewed, it is necessary to stain the material and cut it into samples thin enough for a light beam or an electron beam to penetrate them.
- First, the tissue is treated, to "fix" the structures so they will not be altered by the staining and slicing. Usually this is done by using chemicals such as ALCOHOL and FORMALDEHYDE.
- Stains have been developed that react differently with different cell
 structures, depending on their chemical composition or enzymatic
 activity. The use of stains containing <u>radioactive atoms</u>, known as <u>AUTORADIOGRAPHY</u>, often involves
 feeding cells specific compounds with radioactive atoms and then observing the distribution of radioactive
 events on a <u>photographic film</u> emulsion.

Relative Powers of Microscopes

- Compound Light Microscope: maximum resolving power = 200 nm (maximum useful magnification = -1000 X)
- Transmission Electron Microscope: maximum resolving power = 0.5 nm nm (maximum useful magnification = >30,000 X)
- Scanning Electron Microscope: Gives vivid 3-D images, but less magnification than transmission EM



Raycroft Biology 12 Endocrine System Notes

E Staff

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The Endocrine System The Open The Open Courses Library,2019-11-16 The Endocrine System Biology An endocrine system controls body processes through the production secretion and regulation of hormones which serve as chemical messengers functioning in cellular and organ activity and ultimately maintaining the body s homeostasis The endocrine system plays a role in growth metabolism and sexual development In humans common endocrine system diseases include thyroid disease and diabetes mellitus In organisms that undergo metamorphosis the process is controlled by the endocrine system The transformation from tadpole to frog for example is complex and nuanced to adapt to specific environments and ecological circumstances Chapter Outline Types of Hormones How Hormones Work Regulation of Body Processes Regulation of Hormone Production Endocrine Glands The Open Courses Library introduces you to the best Open Source Courses

Chapter Resource 42 Hormones/Endocrine Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Endocrine System** Lorrie Klosterman, 2009 Introduces readers to the human endoctrine system and its parts Discusses the illnesses and diseases that affect it and how to stay healthy The Endocrine System Pam Walker, Elaine Wood, 2003 Describes how the endocrine systems works and the types of diseases and disorders **Human Endocrine System - Quick** Review Notes and Outline E Staff, Human Endocrine System Quick Review Notes and Outline Learn and review on the go Use Quick Review Physiology Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all high school and college students Endocrine System Vivian Brooks, AI, 2025-03-17 Endocrine System offers a comprehensive exploration of hormonal regulation crucial for understanding overall health and the body s complex functions like metabolism and reproduction This book examines the major endocrine glands such as the pituitary thyroid adrenal and pancreas detailing how hormones act as chemical messengers Readers will discover how these hormones influence everything from energy levels and weight to mood and reproductive capability highlighting the critical role of the endocrine system in maintaining homeostasis The book emphasizes the delicate interplay between hormones and their target tissues illustrating how disruptions in this balance can lead to disease Its unique value lies in its balanced perspective advocating for early detection and proactive management of hormonal imbalances Beginning with an introduction to hormone synthesis and action the book progresses through individual glands reproductive functions clinical aspects and emerging therapies This accessible guide uses scientific literature clinical studies and case examples to support its findings By bridging biology with health and fitness it reveals connections to neuroscience immunology and metabolism showcasing the endocrine system's pivotal role in responding to environmental challenges and maintaining well being Metabolic and Endocrine Physiology, Third Edition Larry Engelking, Alan H. Rebar, 2012-08-15 This book is intended to give readers a guick look at metabolic and endocrine physiology Emphasis is placed on instructional figures flow diagrams and tables

while text material has been held to a minimum In general the endocrine system is first defined and described and then each endocrine gland is discussed separately Where appropriate common endocrine disorders have also been included This text concisely elucidates the endocrine mechanisms responsible for maintaining homeostatic control of important physiologic variables and to assist the reader in understanding common pathophysiologic deviations from normal Over 360 multiple choice questions gauge the reader's capacity to effectively understand the subject material This new edition contains six new chapters covering hormone disposition measurement and secretion bovine equine and rodent estrus cycles primate menstrual cycle male reproductive system testosterone estrogen and progesterone comparative aspects of endocrinology Learning objectives have been added at the beginning of each chapter and all of the questions are new System Joy P. Hinson Raven, Peter Raven, Shern L. Chew, 2013-07-19 This is an integrated textbook on the endocrine system covering the anatomy physiology and biochemistry of the system all presented in a clinically relevant context appropriate for the first two years of the medical student course One of the seven volumes in the Systems of the Body series Concise text covers the core anatomy physiology and biochemistry in an integrated manner as required by system and problem based medical courses The basic science is presented in the clinical context in a way appropriate for the early part of the medical course There is a linked website providing self assessment material ideal for examination preparation **Endocrine System Quick Study Review Notes** E Staff, Learn and review on the go Use Quick Review Science Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all high school and college students **Endocrine Physiology** Susan P. Porterfield, Bruce Alan White, 2007 This volume in the Mosby Physiology Monograph Series explains the fundamentals of endocrine physiology in a clear and concise manner It provides you with a basic understanding of how the endocrine system functions in health and disease Attractively illustrated with clear 2 color diagrams this volume also facilitates study with learning objectives overview boxes chapter summaries and clinical cases with questions and explained answers Stay current with clear accurate and up to the minute coverage of the physiology of the endocrine system focusing on the needs of the student Bridge the gap between normal function and disease with pathophysiology content throughout the book Master the material more easily with learning objectives overview boxes key words and concepts chapter summaries and clinical cases with questions and explained answers Understand complex concepts by examining more than 200 clear 2 color diagrams Apply what you ve learned to real life clinical situations using featured clinical commentaries 250+ Quick Review Facts - The Human Endocrine System E Staff, Learn and review on the go Use Quick Review Physiology Summary Literature Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to The Endocrine System, E-Book Joy help you perform better Perfect study notes for all high school and college students

P. Hinson Raven, Peter Raven, Shern L. Chew, 2022-06-04 The Systems of the Body series has established itself as a highly valuable resource for medical and other health science students following today s systems based courses Now thoroughly revised and updated in this third edition each volume presents the core knowledge of basic science and clinical conditions that medical students need providing a concise fully integrated view of each major body system that can be hard to find in more traditionally arranged textbooks or other resources Multiple case studies help relate key principles to current practice with links to clinical skills clinical investigation and therapeutics made clear throughout Each print volume also now comes with access to the complete enhanced eBook version offering easy anytime anywhere access as well as self assessment material to check your understanding and aid exam preparation The Endocrine System provides highly accessible coverage of the core basic science principles in the context of clinical case histories giving the reader a fully integrated understanding of the system and its major diseases Introduction Receptors and Hormone Action The Hypothalamus and Pituitary Part I The Hypothalamus and Posterior Pituitary The Hypothalamus and Pituitary Part II The Anterior Pituitary The Adrenal Glands Part I The Adrenal Medulla The Adrenal Glands Part II The Adrenal Cortex The Thyroid Gland Hormonal Control of Reproduction Part I Male Reproductive System Hormonal Control of Reproduction Part II Female Reproductive System Hormonal Control of Reproduction Part III Development and Fertility Insulin and the Regulation of Plasma Glucose Hormonal Regulation of Plasma Calcium and Calcium Metabolism Miscellaneous Hormones Systems of the Body Series The Renal System The Musculoskeletal System The Nervous System The Digestive System The Endocrine System The Respiratory System The Cardiovascular System Endocrine Physiology Constance R. Martin, 1985 This graduate text and reference deals with vertebrate and particularly human endocrinology taking a balanced biochemical and physiological approach that emphasizes the mechanisms of hormone action It represents a complete reworking of Martin's Textbook of Endocrine Physiology 1976 detailing the tremendous advances in basic endocrinology and the profound changes in thinking about the nature and function of hormones that have taken place in the last eight years Completely up to date covering all major points of controversy and three times the size of its predecessor 200 new illustrations inlcuding electron micrographs and line drawings Provides useful pedagogic aids such as short self contained sections which treat secondary or controversial aspects of the main topic discussion Covers both clinical aspects and related topics such as the effect of hormones on sexual identity and the possible link between growth factors and cancer Balanced comprehensive and up to the minuted this book is both an excellent text for graduate level courses and a valuable reference for researchers in physiology and for clinical The Endocrine System Lynette Rushton, 2009 Each title in the series The Human Body How It Works endocrinologists investigates a different system or process of the human body from organ systems to cells Written by experts in human anatomy and accompanied by full color illustrations photos charts and diagrams each title thoroughly examines the role of each system as part of the complex machine that is the human body Tasked with controlling growth reproduction and

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