

# L12- Endocrine System I

2/23

## Outcomes:

- I. Intercellular Communication
  - CC types of intercellular communication
- II. Signaling Molecules
  - CC types of signals
  - CC, SEQ water-soluble and lipid-soluble pathways
- III. Endocrine Tissues and Glands
  - CC endocrine and exocrine

## I. Intercellular Communication

### A. Introduction to **Hormones**

- Greek – “to excite”
- Chemical signaling molecule responsible for regulation
- Messenger of endocrine system

#### **Endocrine Signaling**

- Secreted into body fluids, usually blood
- Binds to target cells
- All cells exposed, only those with correct receptor respond

#### **Receptors**

- Large proteins or glycoproteins on/in target cells
- Recognize and bind to **specific** hormones
- Receptors are responsible for the specificity of the endocrine system
- Continually synthesized and degraded
  - Hormone increase for long period → receptor down regulated
  - Hormone decrease for long period → receptor up-regulated
- *Way too low – make more receptors for it – maybe we can detect it*
- *Density of receptors for that hormone*

### B. Types of Intercellular Communication

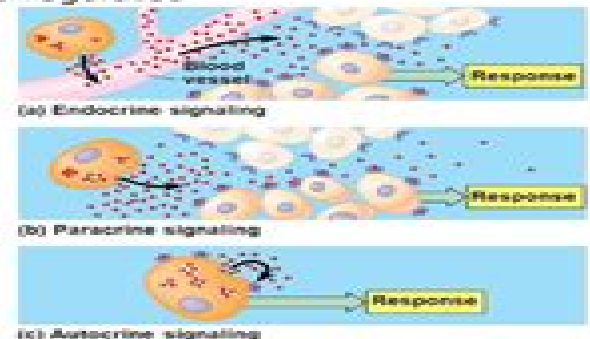
- Classified by:
  - Type of secreting cell – *what cell is sending the signal*
  - Route taken by signal to target cells

#### **Endocrine Signaling**

- Endocrine cells secrete hormones into extracellular fluid
  - *(through blood)*
- Diffuse into bloodstream → travel to target cells

#### **Paracrine & Autocrine Signaling**

- Cells produce and secrete local regulators (*instead of hormones*)
- Reach target cells by diffusion
- Short distance signaling, very quick
- **Paracrine:** Target cells near secreting cells (*in immediate vicinity*)
- **Autocrine:** Target is itself (*cell releases a signal and detects that same exact signal*)



# Raycroft Biology 12 Endocrine System

**Susan P. Porterfield, Bruce Alan White**

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the authors' names.

## Raycroft Biology 12 Endocrine System:

*Cumulated Index Medicus*, 1990      **Hormones and the Endocrine System** Bernhard Kleine, Winfried G.

Rossmann, 2016-02-11 This book focuses on hormones and on how they are produced in very diverse regions of the body in humans and animals. But hormones can be found not only in vertebrates but also in insects, shellfish, spiders, mollusks, even at the origin of metazoan diversification and exhibit the same pathways of synthesis. The book addresses the different classes of hormones: protein peptides, hormones, steroids, and juvenile hormones, and hormones like catecholamines, thyroid hormones, and melatonin. It also discusses the types of hormone receptors, the majority of which are heptahelical G protein coupled receptors or nuclear receptors. Particular attention is paid to the organs where hormones are created with specifics on hormonal production and release, while a dedicated chapter details hormonal regulation from very simple to highly complex schemes. The remarkable kinetics of hormones production are also shown. Before the book is rounded out by chapters on evolution in the endocrine system, the genetics of endocrine diseases, and doping.      **Hormones** Martin Luck, 2014-07-24

Hormones play an integral part in the balance and workings of the body. While many people are broadly aware of their existence, there are many misconceptions, and few are aware of the nature and importance of the endocrine system. In this Very Short Introduction, Martin Luck explains what hormones are, what they do, where they come from, and how they work. He explains how the endocrine system operates, highlighting the importance of hormones in the regulation of water and salt in the body, how they affect reproduction and our appetites, and how they help us adjust to different environments, such as travel across time zones. In this fresh and modern treatment, Luck also touches on the ethical and moral issues surrounding research methods, testing on animals, and hormone misuse. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.      Chapter Resource 42 Hormones/Endocrine Biology Holt

Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004      **The Endocrine System, E-Book** Joy 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 Pituitary4 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

**The Endocrine System, Third Edition** Salvatore Blair,Lynette Rushton,2021-11-01 Much like the nervous system the endocrine system relays important communication signals throughout the body The endocrine system uses chemical signals known as hormones which are produced and stored in special glands in the body Different glands produce specialized hormones and release them into the bloodstream From there these hormones can travel directly to the tissues and organs and help regulate bodily functions In The Endocrine System Third Edition learn how this chemical messaging system is vital to the body s growth metabolism and sexual development Packed with full color photographs and illustrations this absorbing book provides students with sufficient background information through references websites and a bibliography

The Endocrine System The Open The Open Courses Library,2019-10-23 The Endocrine System Biology You may never have thought of it this way but when you send a text message to two friends to meet you at the dining hall at six you re sending digital signals that you hope will affect their behavior even though they are some distance away Similarly certain cells send chemical signals to other cells in the body that influence their behavior This long distance intercellular communication coordination and control is critical for homeostasis and it is the fundamental function of the endocrine system

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**Endocrinology and Molecular Cell Biology** Mr. Rohit Manglik,2024-03-10 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

*How the Endocrine System Works* J. Matthew Neal,2016-03-21 How The Endocrine System Works is not another standard introduction to endocrinology but an innovative and fun way to learn about the importance of the key glands in the human body and the hormones they control It is explained in 9 easy to understand lectures with additional material on the treatment

and management of endocrine disorders

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**How The Endocrine System Works** is the perfect introduction for all medical students as well as for students of bioscience and other healthcare disciplines

*Metabolic and Endocrine Physiology* Larry Engelking, 2012-08-15 This book is intended to give readers a quick 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

*Textbook of Endocrine Physiology* William J. Kovacs, Sergio R. Ojeda, 2012 The sixth edition of this highly popular text retains its comprehensive coverage of endocrine basics from previous editions while featuring entirely new chapters on several topics including the assessment of endocrine function sexual differentiation growth regulation the thyroid the adrenals and calcium homeostasis Chapters have been updated and reorganized to make information easily accessible in concise form and new figures and tables have been added to enhance the presentation of complex concepts Fundamental principles of endocrine physiology are reinforced with illustrative examples from clinical observation and the limitations of current knowledge are properly identified The ideal resource for students entering the field the **Textbook of Endocrine Physiology** aims to provide for all a solid basis in fundamentals of endocrinology and for some inspiration for the pursuit of advanced medical or graduate studies in the field

**Textbook of Endocrine Physiology** Professor of Internal Medicine James E. Griffin M.D. Diana and Richard C. Strauss Professor of Biomedical Research, and Chief of Clinical Endocrinology in the Department of Internal Medicine University of Texas Southwestern Medical Center at Dallas, Division of Neuroscience Oregon Regional Primate Research Center/Oregon Health Sciences University Sergio R. Ojeda M.D. Head, 2004-04-08 This widely used text provides a thoroughly updated account of current knowledge in the endocrine sciences Each chapter is structured to cover both established concepts and recent developments The chapters are not only written at a consistent level and well integrated with one another but they also blend basic science with essential elements of clinical knowledge in order to give students an appreciation of the consequences of deranged endocrine function The Fifth Edition features completely new versions of the chapters on Cytokines and Immune Endocrine Interactions The Adrenal Glands and Calcium Homeostasis Many of the illustrations throughout the book are new or have been significantly revised to complement the text Fresh examples have also been included so that each chapter continues to show clearly the clinical consequences of deranged endocrine function Much new scientific information has been added on such topics as the nongenomic actions of steroid hormones relaxin receptors inhibin B steroid regulating

element binding proteins IGF binding proteins transcriptional regulation of the developing adipocyte and the regulation of food intake and body weight      Emerging Concepts in Endocrine Structure and Functions Ebtesam A.

Al-Suhaimi,2022-04-22 This book uniquely presents conceptual understanding as well as advancements in the field of endocrinology It emphasizes the harmonization between the function and the structure of different endocrine glands in the body The book s initial chapters introduce hormones biological synthesis structure function and signaling pathways The subsequent chapters examine the functional relationship between hypothalamus and pituitary gland and its leading and regulating roles on other endocrine and non endocrine organs A separate chapter discusses the synergistic functions of adrenal glands and pineal gland in the circadian rhythm and analyze the role of corticoids in carbohydrate and mineral metabolism Furthermore the book addresses the role of growth hormones prolactin gonads regulating hormones adrenocorticotropin thyroid hormones parathormone gluco and mineral corticoids insulin and glucagon Physiology of bone remodeling is presented with the role of parathyroid glands C cells and vitamin D explaining the bone as an endocrine organ The regulation of male and female reproductive functions is represented well Lastly the book reviews the novel endocrine role and metabolic aspects of adipose tissue as an endocrine tissue and its relationship to inflammatory diseases insulin resistance and many metabolic disorders The book introduces key parts for endocrine s stem cell in each gland is discussed in term of its survival proliferation migration homing differentiation and its regeneration and remodeling roles

**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      *The Endocrine System* Thomas Braem,1994      **Endocrine Physiology** Susan P.

Porterfield,1997 The new edition of Endocrine Physiology offers Clear accurate coverage of the physiology of the endocrine system focusing on the needs of the student Pathophysiology content throughout that serves as a bridge between normal function and disease Integrated student friendly tools including chapter summaries and study questions key words and concepts a comprehensive exam and two extensive tables on normal hormone values and commonly used abbreviations and symbols Book jacket      Endocrine System Lorrie Klosterman,2009 Introduces readers to the human endocrine system and

its parts Discusses the illnesses and diseases that affect it and how to stay healthy      **Hormones** Etienne-Emile Baulieu (ed), Paul A. Kelly, 1990-11-30 Endocrinology is a field in which enormous advances have been made in the last decade the rate of discovery of new hormones hormone like molecules receptors and mechanisms of action is continually advancing The development of techniques in immunology and molecular biology has led to the possibility of describing in detail the gene structure of many of the compounds involved in hormonal systems Remarkable homology has been shown between oncogene products and various components of the endocrine network leading to the assertion that deregulation of hormonal function is involved in the generation and or development of cancer We now know that the central nervous system is both a target and a production site of many hormonal products and that hormones neurotransmitters growth factors and immunopeptides all act through similar mechanisms The only second messenger known ten years ago was cAMP today calcium derivatives of membrane phospholipids and protein kinases are also known to be mediators of hormone action The very concept of hormonal systems has been expanded to include not only endocrine secretions but also para and autohormones and their mechanisms of action an understanding of their functions will be central to the immediate future of medicine The discovery of hormonal molecules and endocrine interactions and the subsequent understanding of hormone related pathophysiology has led to the development of new strategies in medical treatment such as fertility control and the management of diabetes

*Vertebrate Endocrinology* David O. Norris, James A. Carr, 2020-10-10 *Vertebrate Endocrinology* Sixth Edition provides a comprehensive up to date treatment of the endocrine system for college and university students as well as researchers This book is logically arranged easily comprehended and well illustrated It covers traditional hormone based systems and introduces all forms of chemical communication their implications for the health of humans domesticated and wild vertebrates Written by two experts who have completed extensive research in comparative vertebrate endocrinology with an emphasis on natural and anthropogenic environmental factors influencing endocrine systems Collectively the authors have taught courses in endocrinology at the undergraduate and graduate level for more than 60 years After first publishing in 1985 *Vertebrate Endocrinology* Sixth Edition continues to serve as an important resource for graduate students and advanced undergraduates in the biological sciences animal sciences and veterinary sciences Endocrine researchers will also benefit from the book's relevance in the areas of comparative veterinary and mammalian endocrinology Addresses the endocrinology of all vertebrate and non vertebrate chordates The only endocrinology textbook that deals with evolutionary aspects of endocrine systems Includes biochemical cellular tissue organismic behavioral and environmental aspects of chemical communication      *The Endocrine System* Stephanie Watson, 2004 Examines the role and function of the human endocrine system

The book delves into Raycroft Biology 12 Endocrine System. Raycroft Biology 12 Endocrine System is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Raycroft Biology 12 Endocrine System, encompassing both the fundamentals and more intricate discussions.

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6. In chapter 5, this book will draw a conclusion about Raycroft Biology 12 Endocrine System. This chapter will summarize the key points that have been discussed throughout the book.

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