

## BIOL 2402 A&P-2 UNIT 1 Lecture Exam Study Guide

### The Endocrine system (Chapter 16)

- What is a hormone? Long distance chemical signals that travel in blood or lymph nodes. They are amino acid based and steroid based.

What are its main functions? Reproduction, growth and development, maintenance of electrolyte, water, and nutrient balance of the blood, regulation of cellular metabolism and energy balance, mobilization of body defenses

- What are endocrine glands? (Ductless glands) produce hormones and lack ducts.

What do they secrete? They release their hormones into the surrounding tissue fluid.

Major examples of glands? Pituitary, thyroid, parathyroid, adrenal, and pineal glands.

How is it different from the action of the nervous system? Slow and long response, acts via hormones, can target anywhere in blood, act over long distances.

- Location and identification of endocrine glands in the body – Figure 16.1

GLANDS Pineal gland, pituitary gland, thyroid gland, parathyroid gland, adrenal glands, ORGANS pancreas, gonads (ovary and testes), hypothalamus, thymus

• Distinguish between hormones long distance chemical signals that travel thru blood or nodes  
autocrine short distance chemicals that exert effects on the same cells that secrete them and paracrine short distance chemical signals that act locally and affect cells other than those that secrete them

• Chemical structure – amino acid-based versus steroids AMINO acid- water soluble, amino acid derivatives, peptides, and proteins (building block of proteins), STEROID based- lipid synthesized from cholesterol, hydrophilic (not water friendly) gonadal and adrenocortical hormones.

- What are target cells? Tissues with receptors for a specific hormone

Two major mechanisms by which hormones bring about their effects on target tissues.

cAMP signaling: Hormone, Receptor, G Protein, adenylate converts ATP to cAMP (second messenger) cAMP activates protein. ALSO, PIP2-calcium mechanism

• How does a hormone communicate with its target cell? Water soluble hormones act on plasma membrane via g protein 2nd messengers, they cannot enter the cell. Lipid soluble hormones act on intracellular receptors and can enter a cell.

# Biol 2402 Study Guide For Final Exam

**Tina Lane**

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