

Anatomy and physiology Chapter 17

Steroids

Derived from cholesterol, secreted by gonads and adrenal glands, estrogens, progesterone, testosterone, cortisol, aldosterone, and calcitriol

Peptides and glycoproteins

Created from chains of amino acids, oxytocin, ADH, releasing and inhibiting hormones, anterior pituitary hormones

Monoamines (biogenic amines)

Derived from amino acids, epinephrine, norepinephrine, melatonin, thyroid hormone

Steroid synthesis

Synthesized from cholesterol, differs in functional groups attached to 4-rings steroid backbone

Peptide synthesis

synthesized in same way as any protein, at first, an inactive preprohormone (first several amino acids is a signal peptide that guides it into cisternae of rough ER), single peptide removed to form prohormone, Golgi body does final transformation to hormone packaged for secretion

Insulin synthesis

Begins as preproinsulin, then becomes proinsulin. When connecting peptide is removed, 2 polypeptide chains are formed to make insulin

Hormone transport

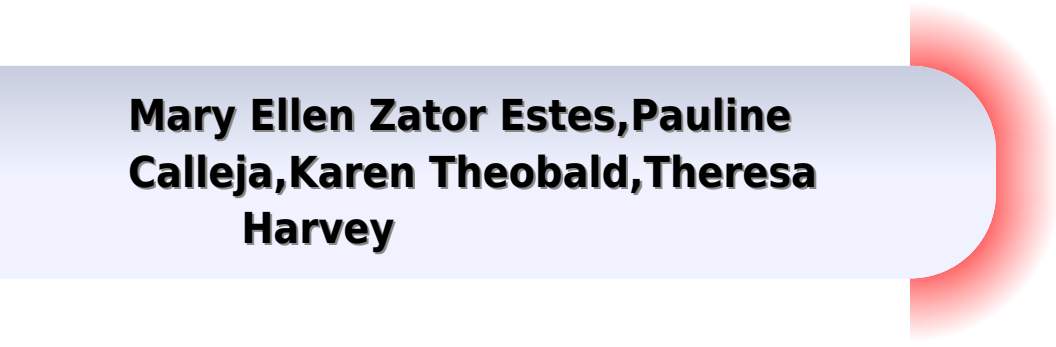
Most monoamines and peptides are hydrophilic and mix easily with blood plasma. Steroids and thyroid hormone are hydrophobic. Bind to transport proteins, bound hormones have longer half-life (protected from liver enzymes and kidney filtration), only unbound hormone leaves capillaries to reach target cell. Transport proteins protect circulating hormones from being broken down by enzymes in plasma and liver and from being filtered by kidneys

Hormone receptors

Hormones stimulate only those cells that have receptors for them, receptors are protein or glycoprotein molecules, they act like switches turning on metabolic pathways when hormone binds, usually each target cell has a few thousand receptors for a given hormone. Receptor-hormone interactions exhibit specificity and saturation. Saturated when all receptors are occupied

Anatomy And Physiology Chapter 17

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Calleja, Karen Theobald, Theresa
Harvey**



Anatomy And Physiology Chapter 17:

Whispering the Strategies of Language: An Psychological Quest through **Anatomy And Physiology Chapter 17**

In a digitally-driven world where monitors reign great and quick conversation drowns out the subtleties of language, the profound secrets and mental nuances hidden within words frequently go unheard. Yet, set within the pages of **Anatomy And Physiology Chapter 17** a captivating fictional prize sporting with fresh feelings, lies an exceptional journey waiting to be undertaken. Penned by a skilled wordsmith, this enchanting opus attracts visitors on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the psychological depths of this poignant review, we can embark upon a heartfelt exploration of the book is core styles, dissect its charming publishing style, and yield to the effective resonance it evokes heavy within the recesses of readers hearts.

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