

## I. Endocrine Overview

- a. The endocrine system consists of glands which secrete **hormones directly into the blood**
  - i. These glands include:
    1. Hypothalamus, pituitary gland, thyroid, parathyroid, pancreas, adrenal glands, placenta (during pregnancy), ovaries, testes, thymus, and pineal gland
    2. The hormones secreted by these glands regulate the functions of different organs and tissues
- b. **Glands and their hormones:**
  - i. Pituitary:
    1. **Anterior pituitary:**
      - a. TSH
      - b. ACTH
      - c. LH
      - d. GH
      - e. Prolactin
    2. **Posterior pituitary:**
      - a. Oxytocin
      - b. Vasopressin
  - ii. Thyroid:
    1. T4, T3
    2. Calcitonin
  - iii. Parathyroids:
    1. Parathyroid hormone (PTH)
  - iv. Pancreas:
    1. Insulin
    2. Glucagon
    3. Somatostatin
    4. Pancreatic polypeptide (PP)
  - v. Adrenal glands:
    1. Epinephrine
    2. Norepinephrine
    3. Aldosterone
    4. Cortisol
    5. Androgens
  - vi. Ovaries:
    1. Estrogen
  - vii. Testes:
    1. Testosterone

## II. Pituitary Gland:

### a. Morphology and overall functions:

- i. Gross Anatomy:
  1. Well-protected gland, located in a pocket of the sphenoid bone at the base of the brain
- ii. Histology:
  1. Posterior:
    - a. Made up largely of the endings of axons from the hypothalamus
    - b. Stores hormones from hypothalamus
  2. Anterior:
    - a. Contains endocrine cells that synthesize and store hormones
    - b. Different cell types produce different hormones →



# Endocrine Glands Study Guide Scf

**B Lingard**



## Endocrine Glands Study Guide Scf:

**Food Chemical Safety** David Watson, 2001-05-02 Chemical contaminants in food from pesticides and veterinary drug residues to contamination from food packaging are a major concern for the food industry Written by a distinguished international team of contributors this authoritative collection describes the main chemical contaminants their health implications how they contaminate food products methods of detection and how such contaminants can be controlled Describes the main chemical contaminants of food their health implications how they contaminate food products methods of detection and how such contaminants can be controlled Cumulated Index Medicus ,1969 *Alternatives to Laboratory Animals* ,2001 The Truth About Melasma Janett Juwien, The Truth About Melasma is a groundbreaking guide that reveals the real reasons behind this stubborn skin condition and offers a path to true healing Drawing from years of experience as a cosmetic scientist and esthetician Janett uncovers the deeper often overlooked causes of melasma Through extensive research backed by over 250 clinical references she connects the dots between environmental toxins stress hormonal imbalances and the modern lifestyle that fuels this condition More than just a skincare book this is an empowering resource for those who feel frustrated hopeless or even emotionally distressed by melasma The Truth About Melasma is where modern research meets ancient wisdom With easy to understand science and natural solutions this book guides you toward restoring balance in your body creating harmony in your environment and ultimately falling in love with your natural skin If you ve been searching for real answers beyond quick fix creams and cosmetic procedures this book is your roadmap to lasting transformation **Physiologie** ,1979 **The Water-Food-Energy Nexus** I. M. Mujtaba, R. Srinivasan, N. O. Elbashir, 2017-09-11 Exponential growth of the worldwide population requires increasing amounts of water food and energy However as the quantity of available fresh water and energy sources directly affecting cost of food production and transportation diminishes technological solutions are necessary to secure sustainable supplies In direct response to this reality this book focuses on the water energy food nexus and describes in depth the challenges and processes involved in efficient water and energy production and management wastewater treatment and impact upon food and essential commodities The book is organized into 4 sections on water food energy and the future of sustainability highlighting the interplay among these topics The first section emphasizes water desalination water management and wastewater treatment The second section discusses cereal processing sustainable food security bioenergy in food production water and energy consumption in food processing and mathematical modeling for food undergoing phase changes The third section discusses fossil fuels biofuels synthetic fuels renewable energy and carbon capture Finally the book concludes with a discussion of the future of sustainability including coverage of the role of molecular thermodynamics in developing processes and products green engineering in process systems petrochemical water splitting petrochemical approaches to solar hydrogen generation design and operation strategy of energy efficient processes and the sustainability of process supply chain and enterprise

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