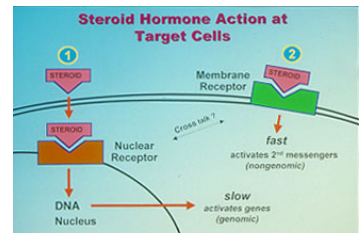


The Endocrine System

- Hormones- chemical messengers carried by blood-
 - May stimulate other glands
 - Regulate growth, development, metabolism, sex processes



Steroid Hormone Action at Target Cells

- Hormones need a specific receptor on a specific cell to do their job

Fig 1. Receptor-mediated mechanisms of steroid hormone action

- Major Glands of the Endocrine system
- Pituitary
- Thyroid
- Parathyroid
- Adrenal.
- Pancreas
- Ovaries
- Testes

- ### Pituitary gland
- Master gland of body
 - Located in the depression of sphenoid bone
 - Produces many hormones that affect other glands
 - thyroid stimulating hormone
 - Somatotropin- growth hormone
 - Lutenizing (LH)- causes ovulation
 - ICSH- causes testes to secrete testosterone
 - Melanocyte stimulating- distribution of melanin in skin
 - ADH- antidiuretic hormone