

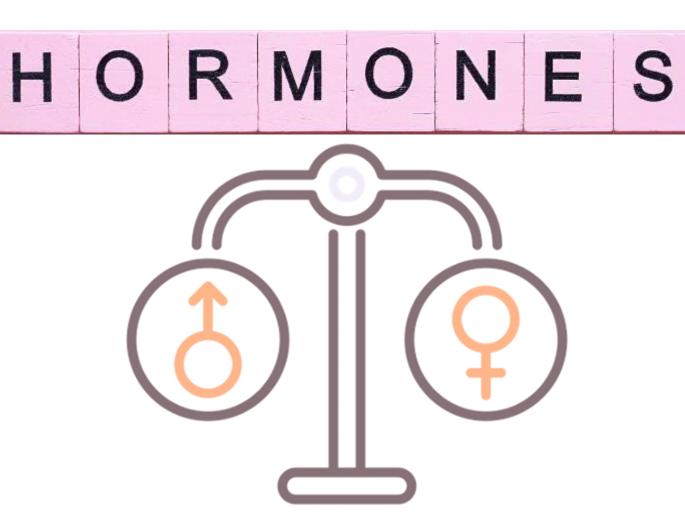
MIND MAP

Hormones And Their Receptors

byjusexamprep.com

Hormones are chemical messengers secreted directly in our blood stream from the endocrine glands. Hormones perform various functions from metabolism to growth and development, emotions, mood, sexual function and even sleep.

As hormones circulate in the bloodstream, they molecules encounter receptors in tissues throughout the body.

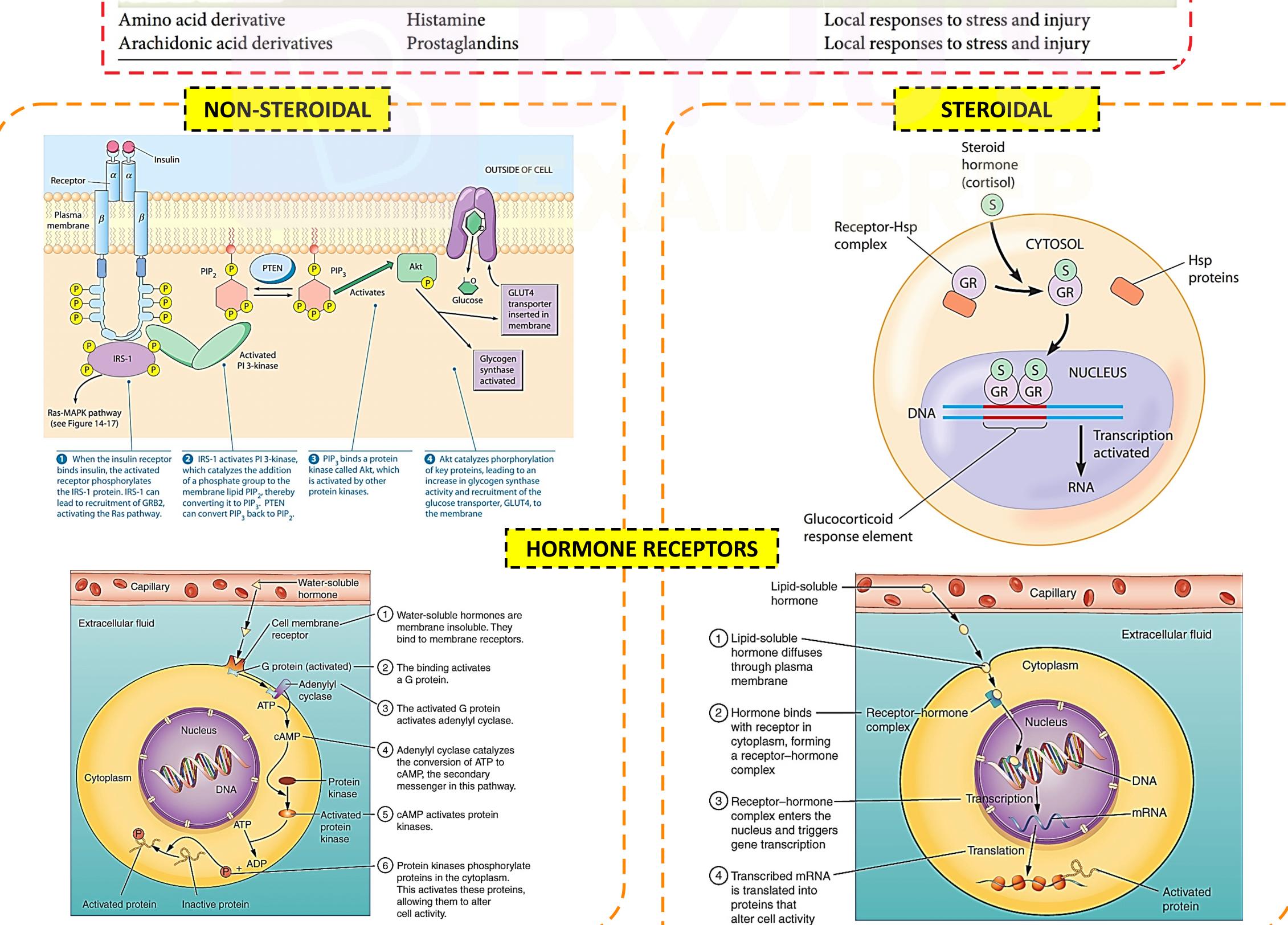


Hormones can also be classified according to their chemical properties. Chemically, the endocrine hormones fall into four categories: amino acid derivatives, peptides, proteins, and lipid-like hormones such as the steroids.

Steroid hormones directly enters the cytoplasm and interacts with intracellular receptors while nonsteroidal hormones (peptide, amino acid, proteins) interact with receptors located on the plasma membrane of cell.

Chemical Classification	Example	Regulated Function
Endocrine Hormones		
Amino acid derivatives	Epinephrine (adrenaline) and norepinephrine (both derived from tyrosine)	Stress responses: regulation of heart rate and blood pressure; release of glucose and fatty acids from storage sites
	Thyroxine (derived from tyrosine)	Regulation of metabolic rate
Peptides	Antidiuretic hormone (vasopressin)	Regulation of body water and blood pressure
	Hypothalamic hormones (releasing factors)	Regulation of tropic hormone release from pituitary gland
Proteins	Anterior pituitary hormones	Regulation of other endocrine systems
Steroids	Sex hormones (androgens and estrogens)	Development and control of reproductive capacity and secondary sexual characteristics
	Corticosteroids	Stress responses; control of blood electrolytes

Paracrine Hormones



alter cell activity



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