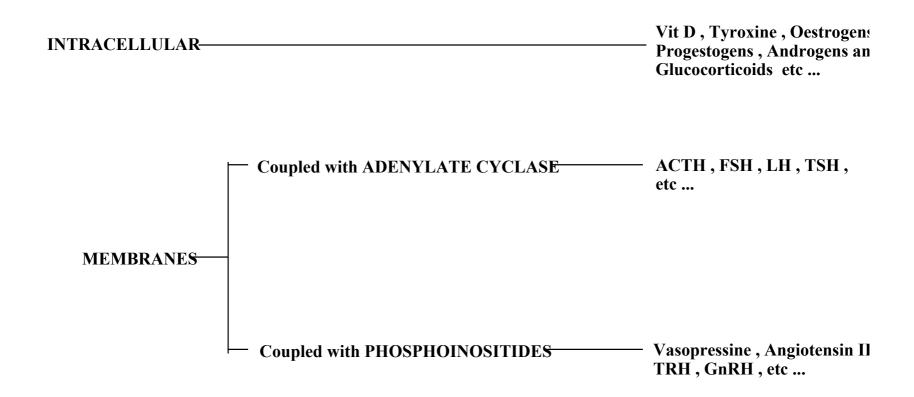
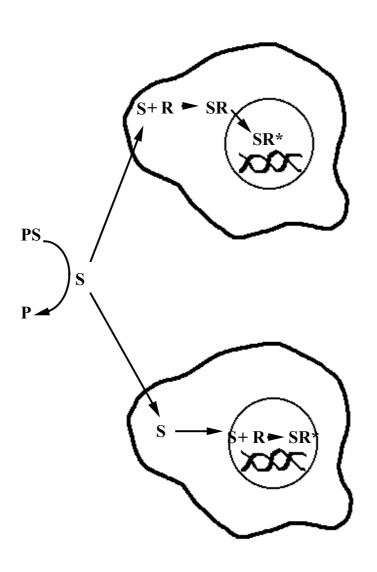
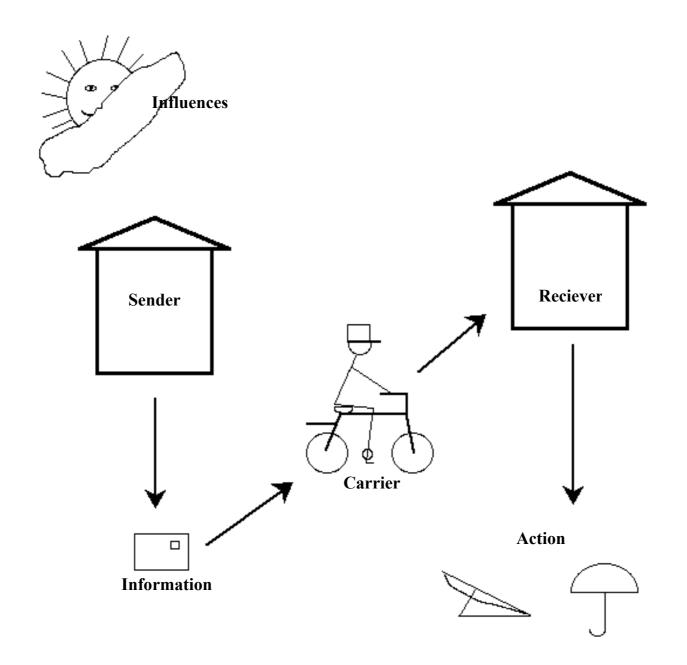
RECEPTOR TYPE AND SECOND MESSANGERS



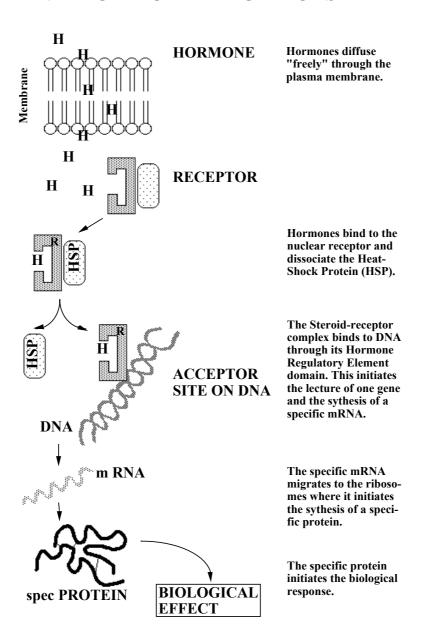
CYTOPLASMIC AND/OR NUCLEAR RECEPTORS



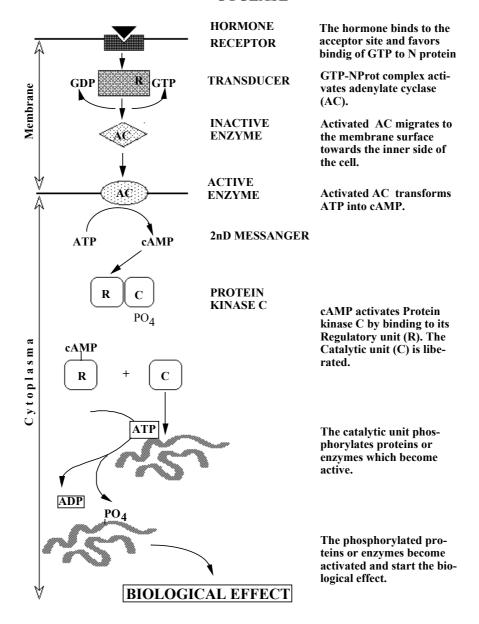
Genetically engineered receptors with a HRE from the Glucocorticoid receptor and a hormone binding domain from the Oestradiol receptor induce Glucocorticoid-like activities!

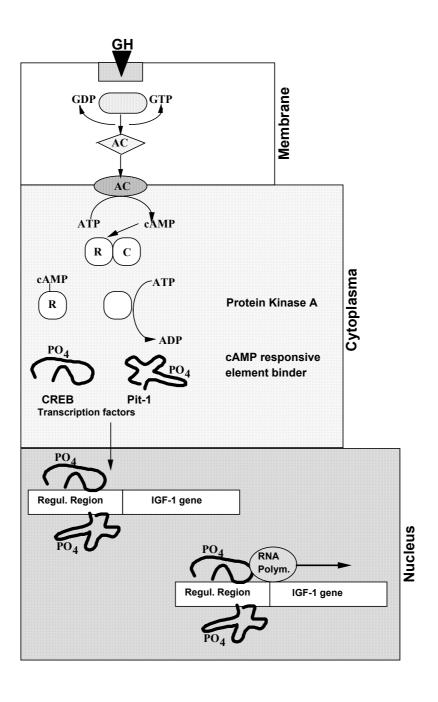


INTRACELLULAR RECEPTORS

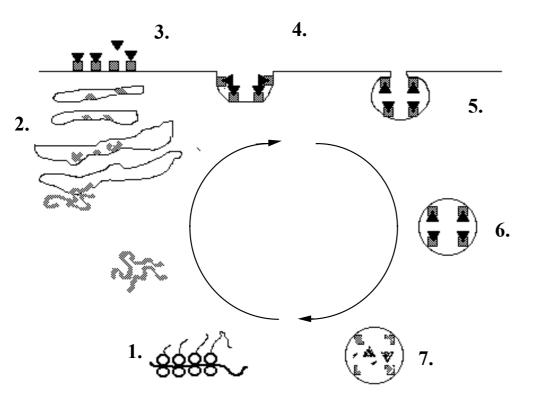


MEMBRANE RECEPTOR COUPLED TO ADENYLATE CYCLASE





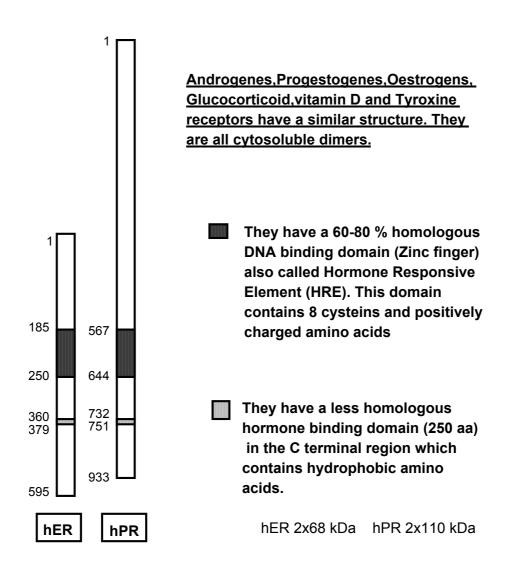
THE RECEPTOR CYCLE



- 1. Synthesis of receptor proteins in the ribosomes
- 2. Processing of receptor proteins in the endoplasmic reticulum and transport of receptors through the Golgi to the plasma membrane.
- 3. Binding of the hormone to the membrane receptor.
- 4. Start of internalization through the formation of <u>Coated Pits</u>.
- 5. Invagination of plasma membrane portion rich in saturated receptors.
- 6. Formation of Coated Vesicles
- 7. Degradation of receptors and hormones and liberation of amino acids ready to be reused for protein synthesis.

REGULATION OF RECEPTORS

STEROID RECEPTOR STRUCTURE



Hormones are produced by Endocrine Glands and secreted into the circulation. They thus come into contact with all cells of the body. Only <u>TARGET</u>

<u>CELLS</u> respond to the hormone. These cells have specific <u>RECEPTORS</u> for the hormone.

WHAT IS THE DISTRIBUTION OF RADIOACTIVE OESTRADIOL WHEN INJECTED IN A RAT?

