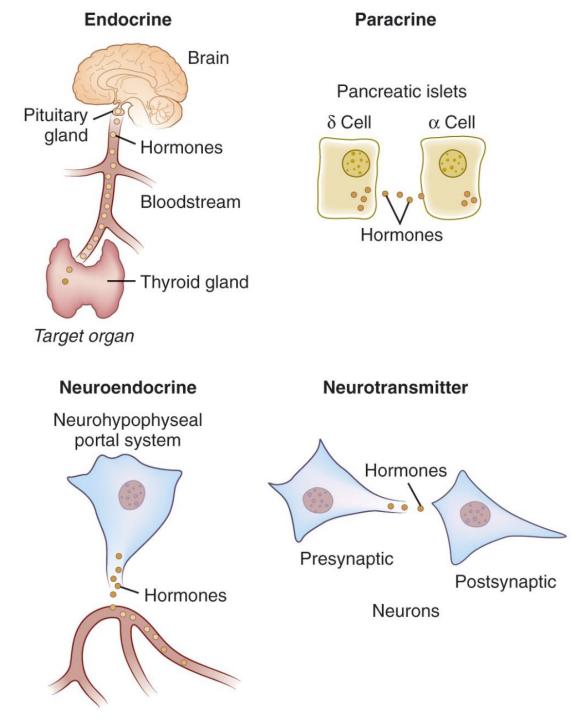


Physical Activity and Health Promotion

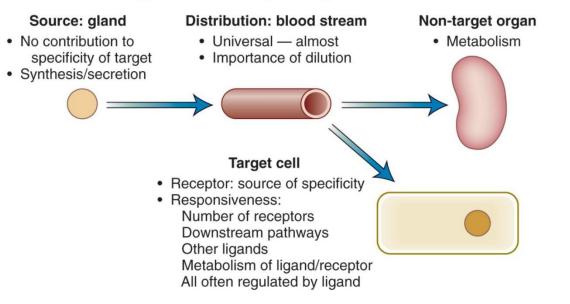
Costanzo Giulio Moretti

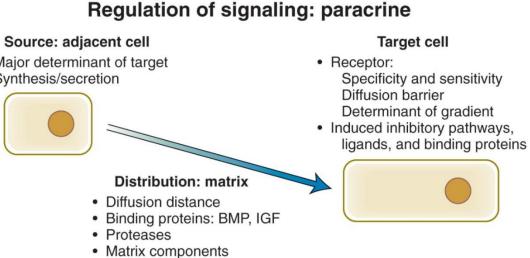
Unit of Endocrinology University of Rome TorVergata St John Calibita Hospital Tiber Island Rome Section of Reproductive Endocrinology

Lesson 1 Basic



Regulation of signaling: endocrine

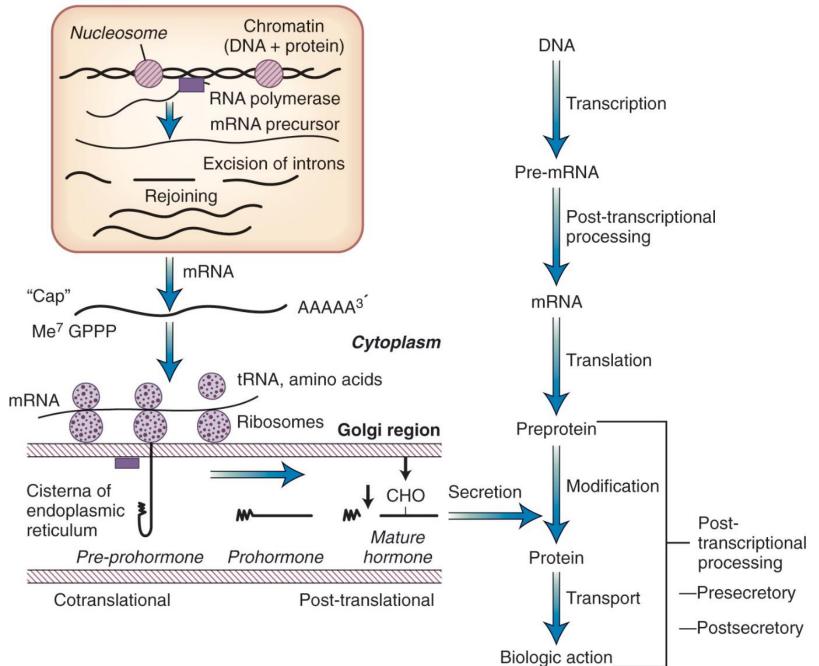


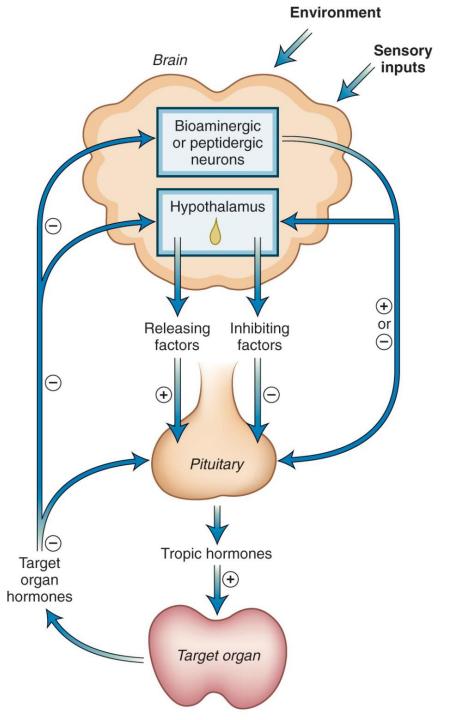


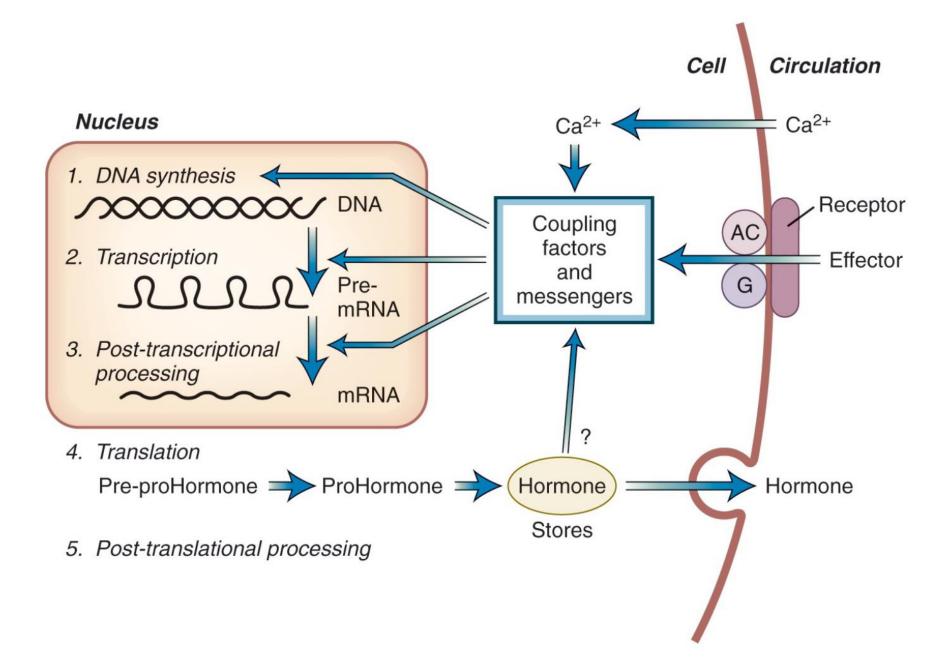
- · Major determinant of target
- Synthesis/secretion

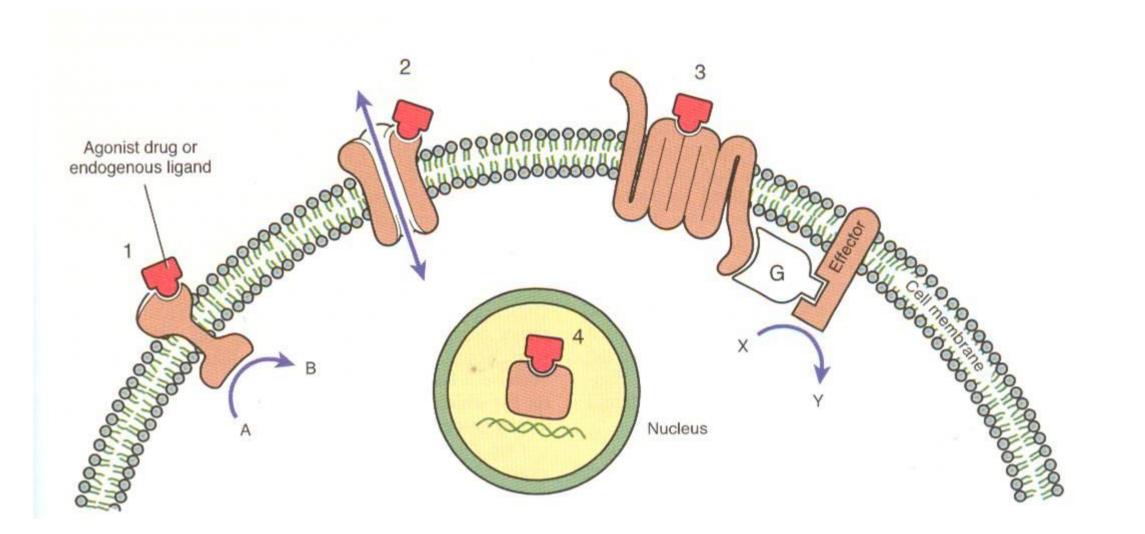


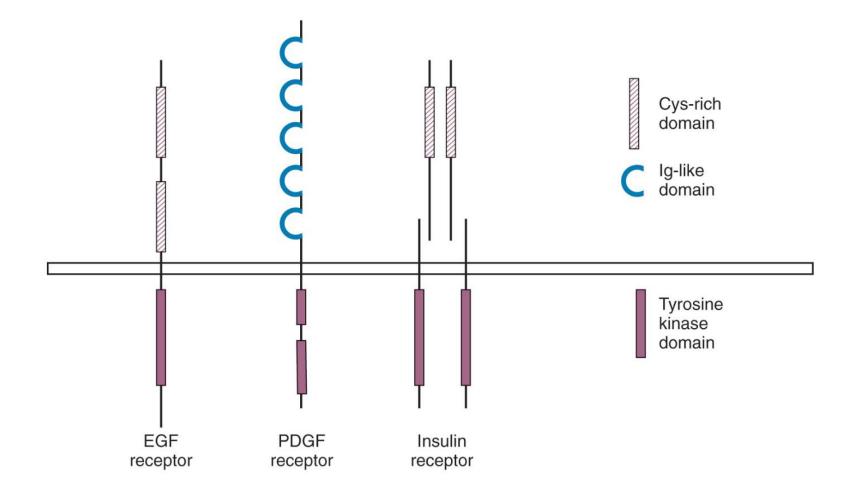
Nucleus

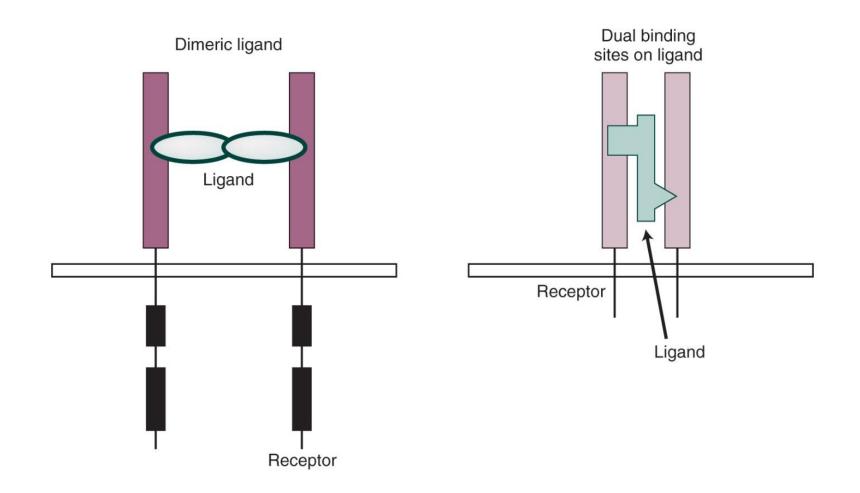


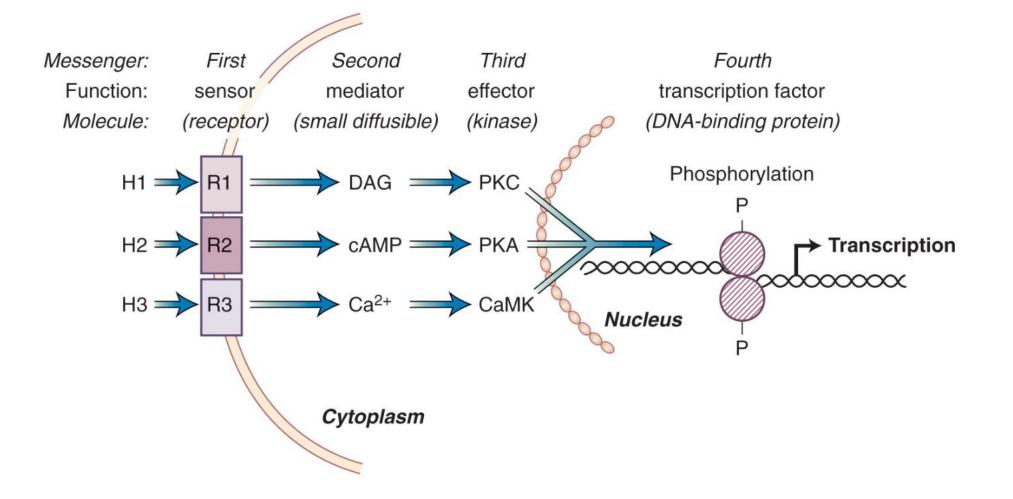


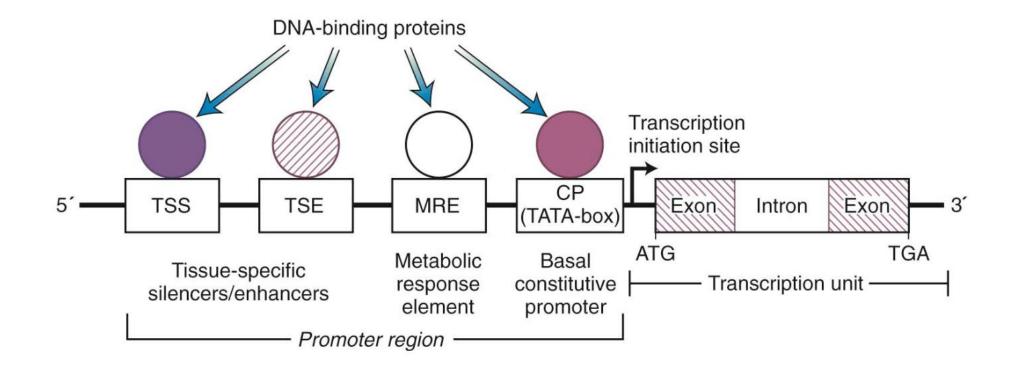


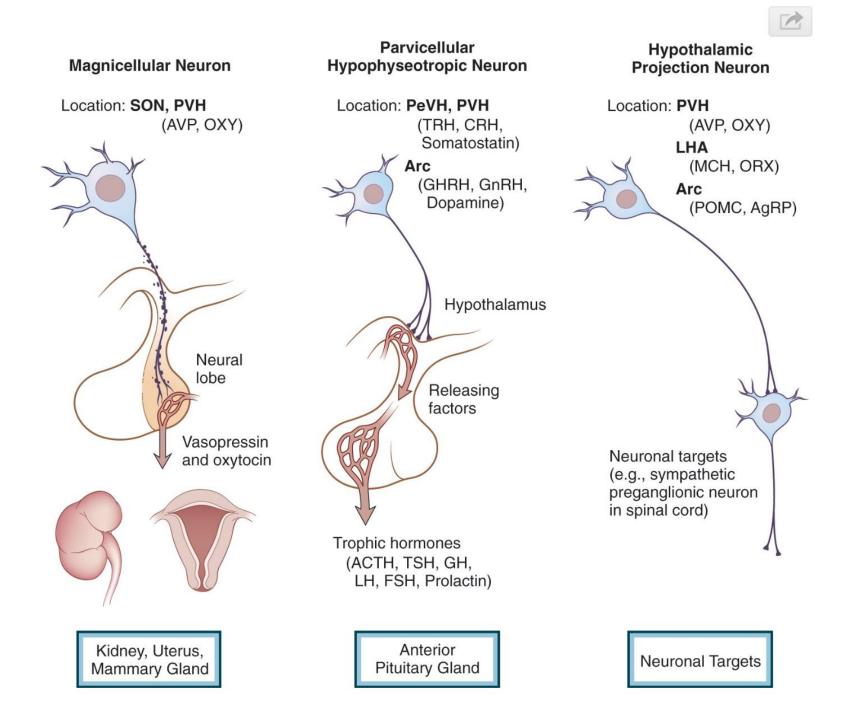


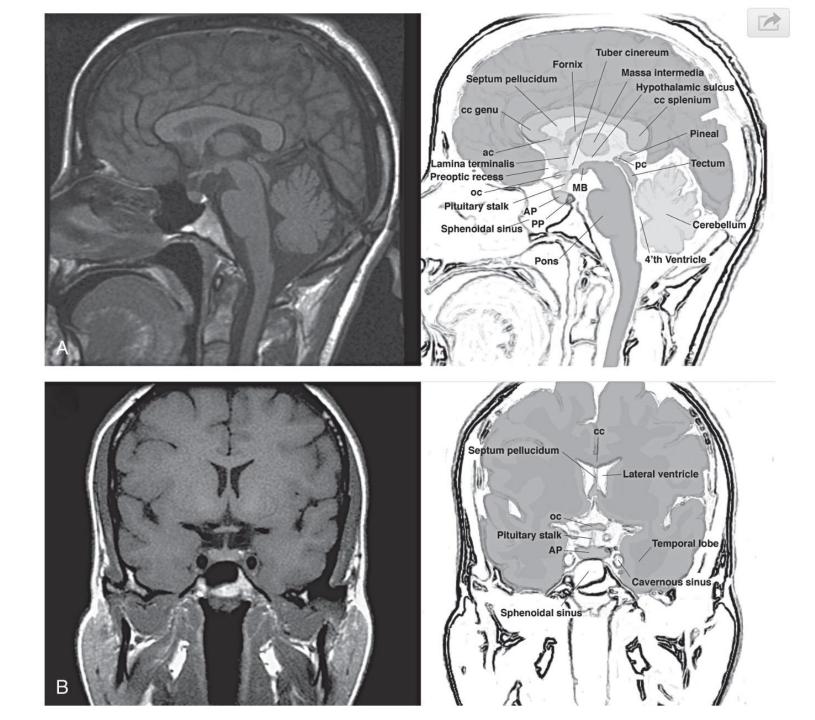












| Paraventricular Nucleus | Arcuate Nucleus |
|---|---|
| Magnicellular Division | Acetylcholine |
| Angiotensin II Cholecystokinin (CCK) Dynorphins Nitric oxide (NO) Oxytocin Vasopressin (AVP) | γ-Aminobutyric acid (GABA) Agouti-related peptide (AgRP) Cocaine- and amphetamine-regulated transcript (CART) Dopamine Dynorphin Endocannabinoids |
| Parvicellular Divisions | Enkephalins |
| γ-Aminobutyric acid (GABA)Angiotensin IIAtrial natriuretic factor (ANF)Bombesin-like peptidesCholecystokinin (CCK)Corticotropin-releasing hormone(CRH)DopamineEndocannabinoidsEnkephalinsGalaninGlutamateInterleukin-1 (IL-1)Neuropeptide Y (NPY)NeurotensinNitric oxide (NO)RFamide-related peptides(RFRP)SomatostatinThyrotropin-releasing hormone(TRH)Vasopressin (AVP)Vasoactive intestinal peptide | Galanin Galanin-like peptide (GALP) Glutamate Gonadotropin-releasing hormone (GnRH) Growth hormone–releasing hormone (GHRH) Kisspeptins Melanocortins (ACTH, α -MSH, β -MSH, γ -MSH) Neurokinin B (NKB) Neuromedin U Neuropeptide Y (NPY) Neurotensin Nociceptin/orphanin FQ (OFQ) Opioids (β -endorphin) peptides Pancreatic polypeptide Prolactin Pro-opiomelanocortin Pyro-glutamyl-RFamide peptide (QRFP) Somatostatin Substance P |