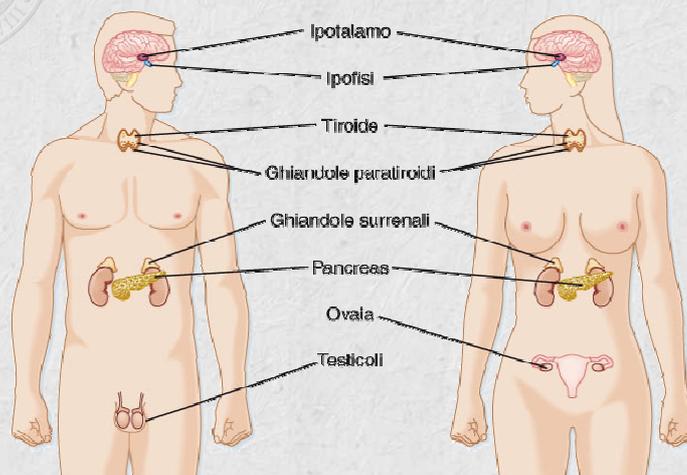


Apparato endocrino

Introduzione e concetti generali

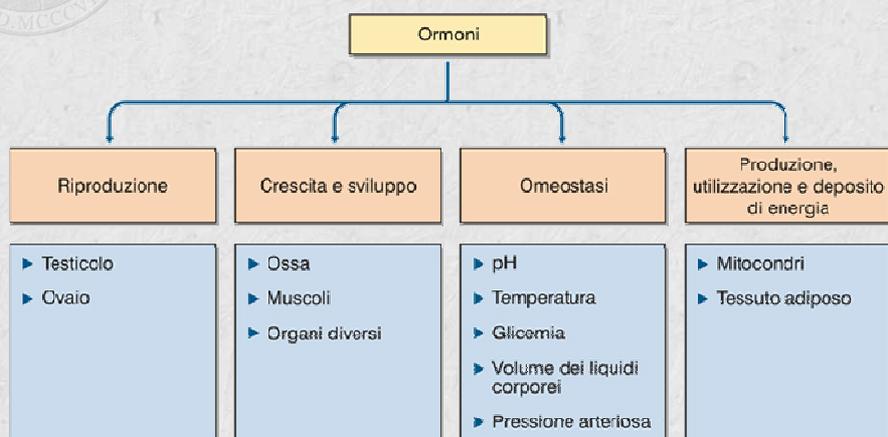
Principali ghiandole endocrine



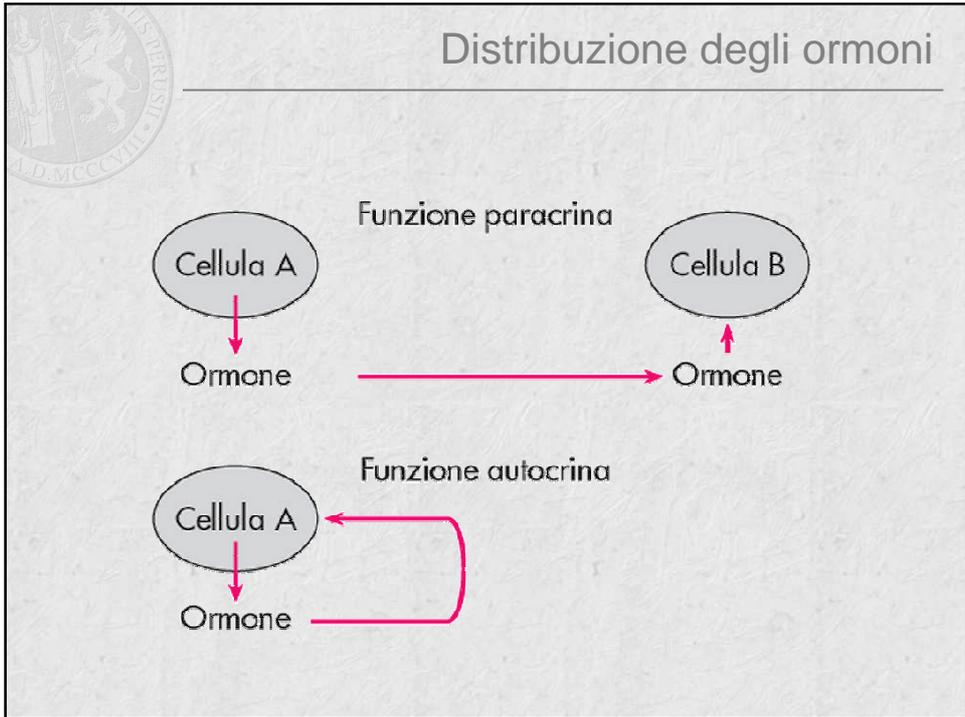
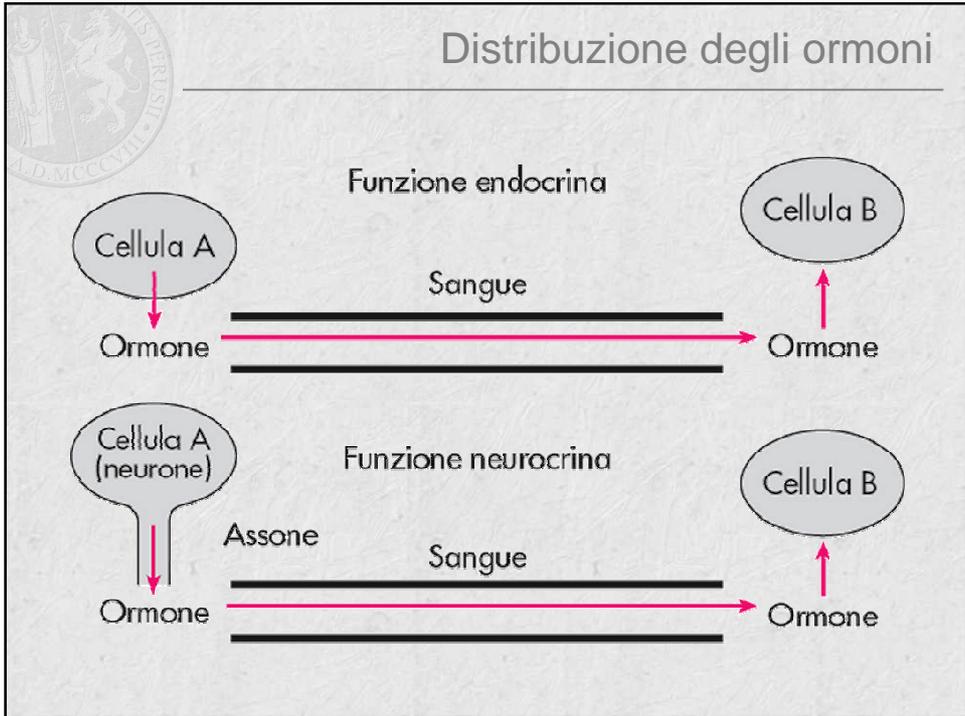
Funzioni controllate dagli ormoni

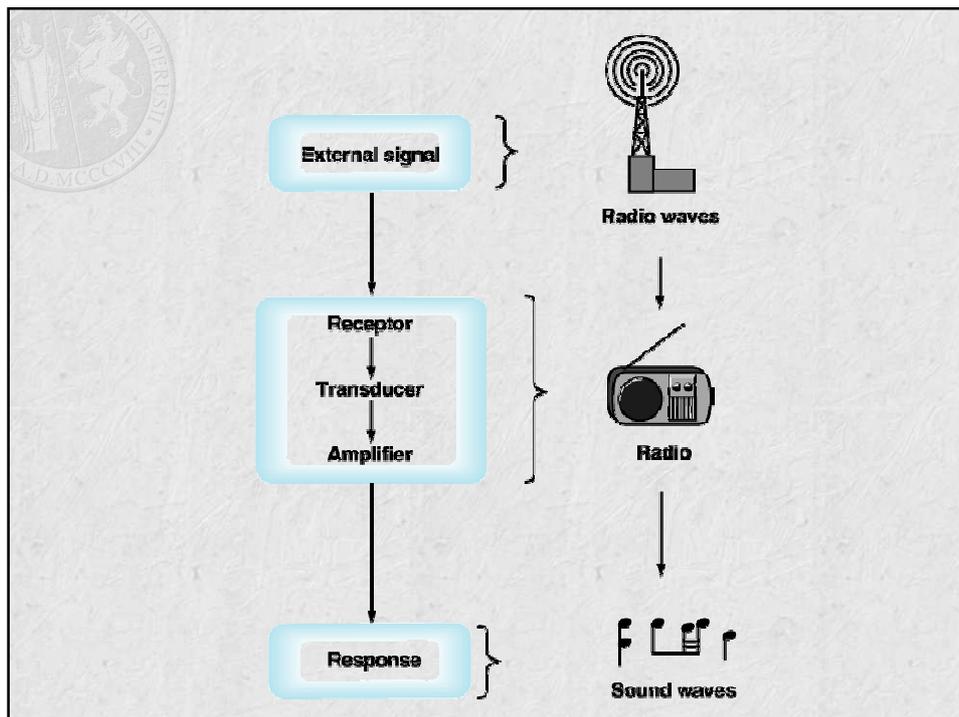
- Controllo del canale digerente ed annessi
- Controllo della produzione energetica
- Controllo della composizione e del volume dei liquidi extracellulari
- Adattamento all'ambiente sfavorevole
- Crescita e sviluppo
- Riproduzione

Funzioni controllate dagli ormoni



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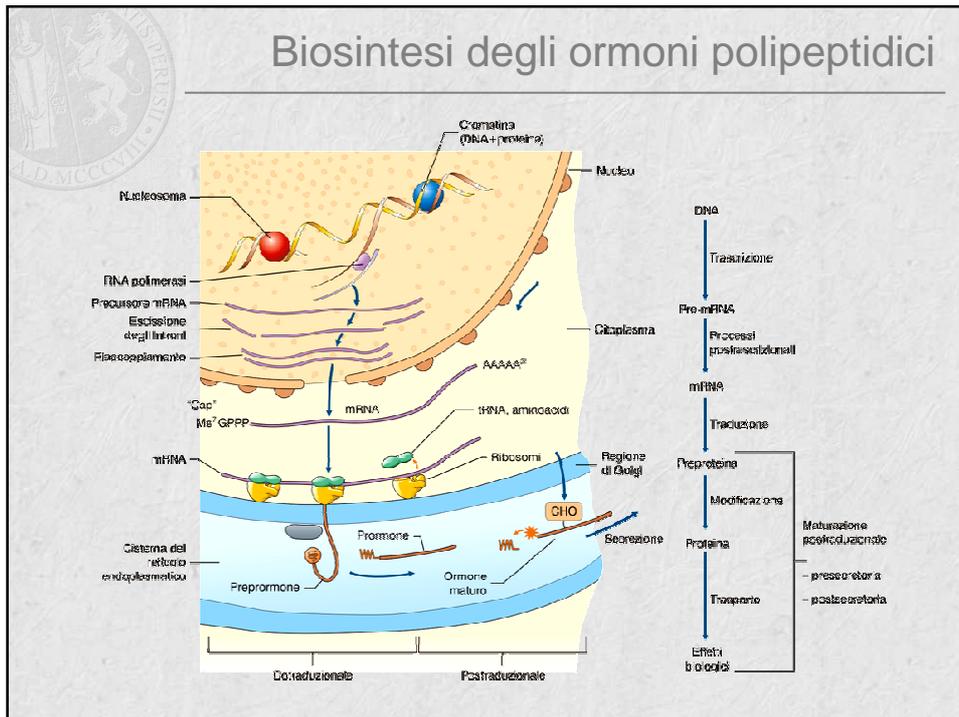




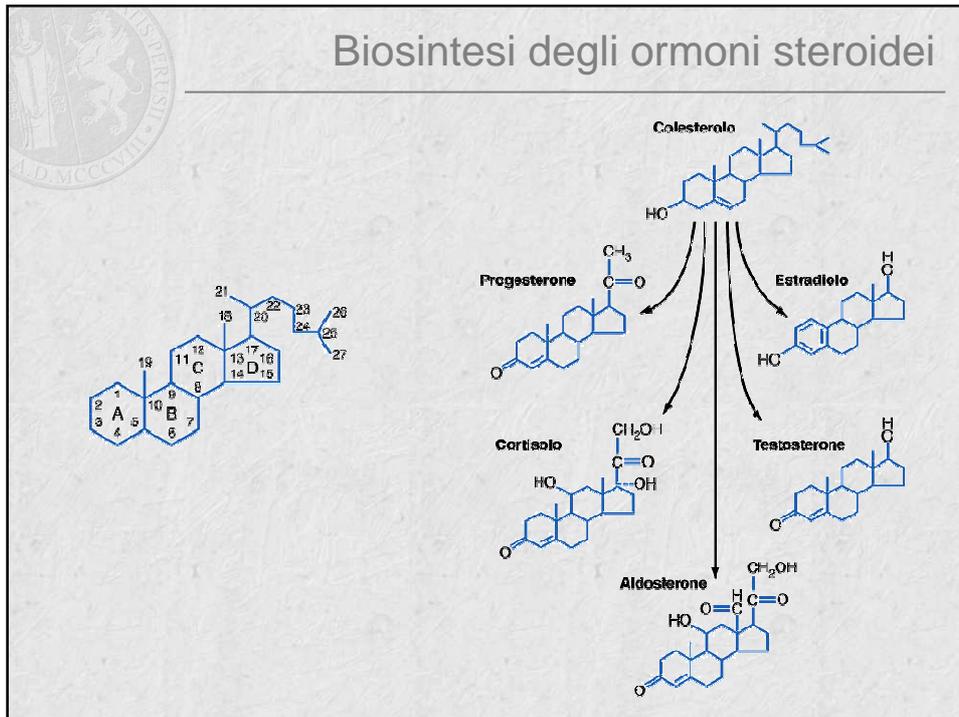
Natura chimica degli ormoni

- Polipeptidi: insulina, glucagone, GH, ACTH, paratormone, ADH, ossitocina, ormoni ipotalamici, etc.
- Ormoni steroidei: Cortisolo, Aldosterone, 17β -estradiolo, Progesterone, Testosterone.
- Amine (tirosina): Tetraidotironina (T_4), Triiodotironina (T_3), Adrenalina e Noradrenalina.

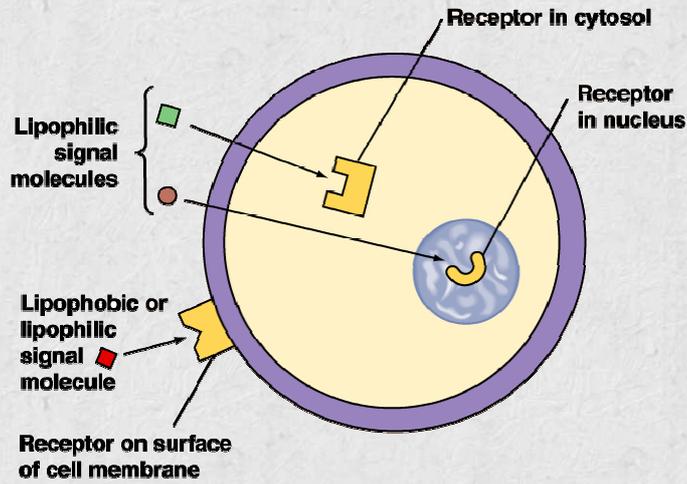
Biosintesi degli ormoni polipeptidici



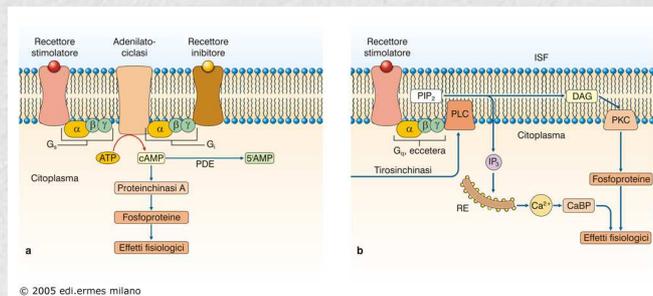
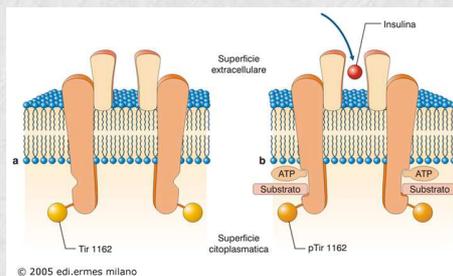
Biosintesi degli ormoni steroidei



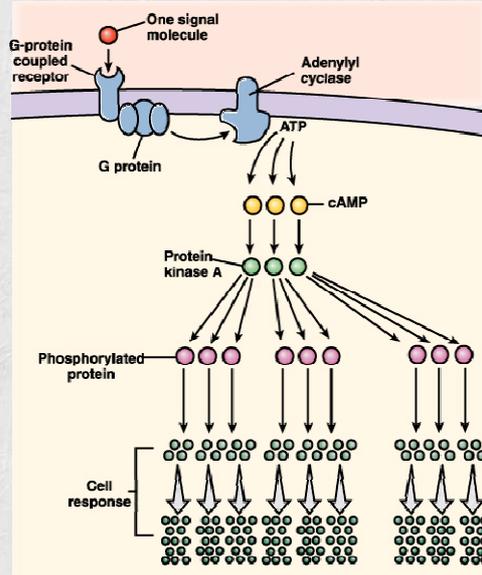
Meccanismi di trasduzione



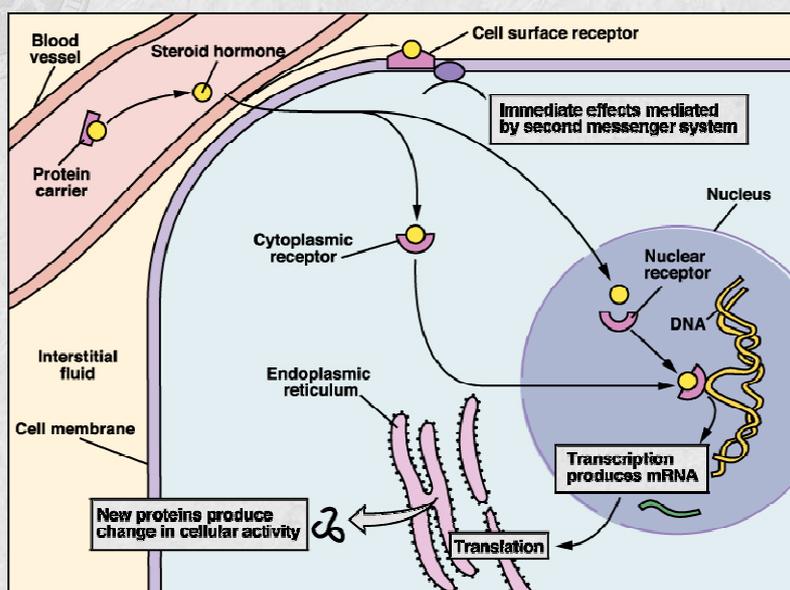
Trasduzione degli ormoni polipeptidici



Effetto di amplificazione



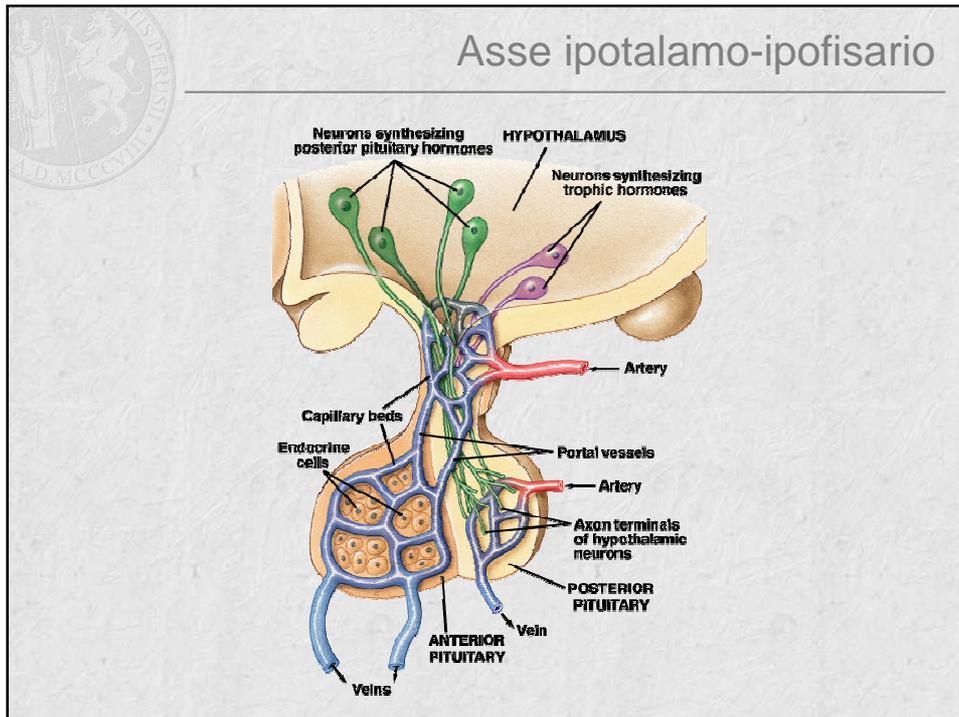
Trasduzione degli ormoni steroidei

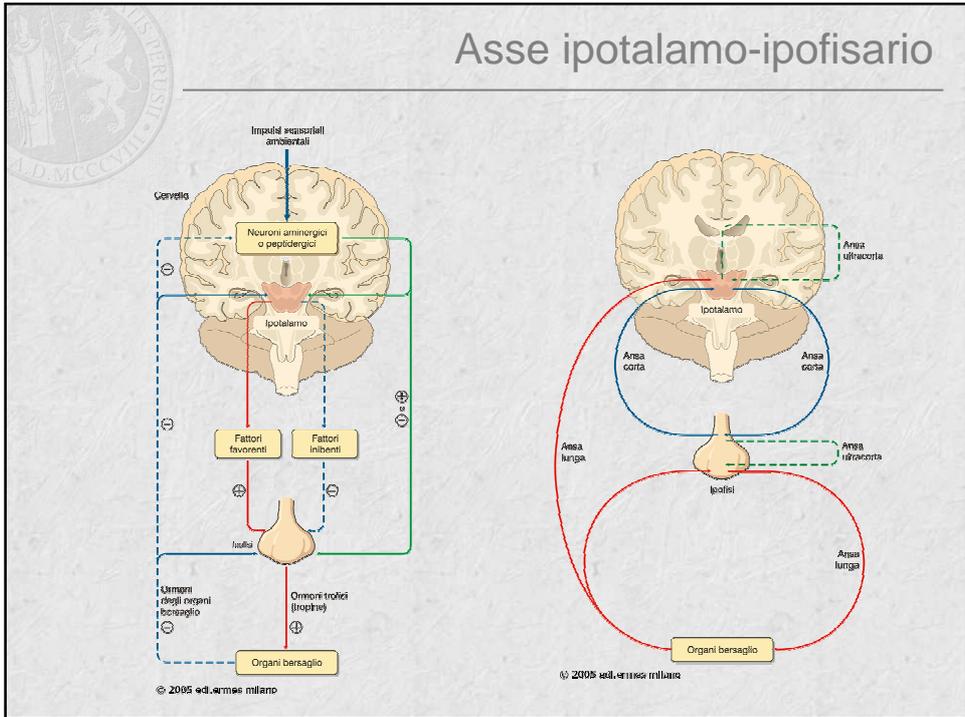
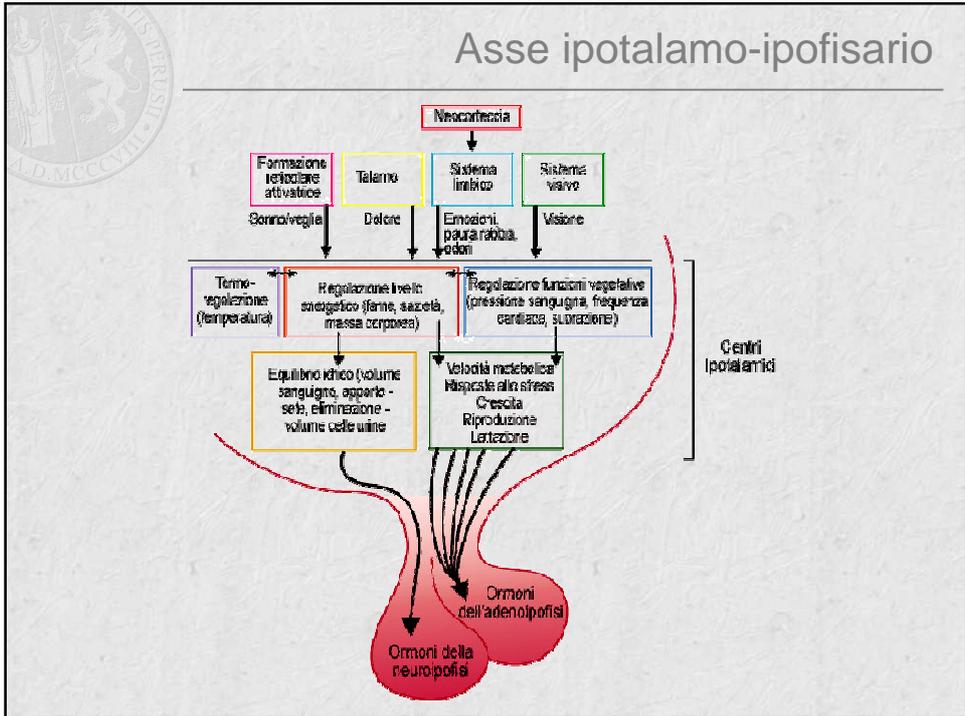


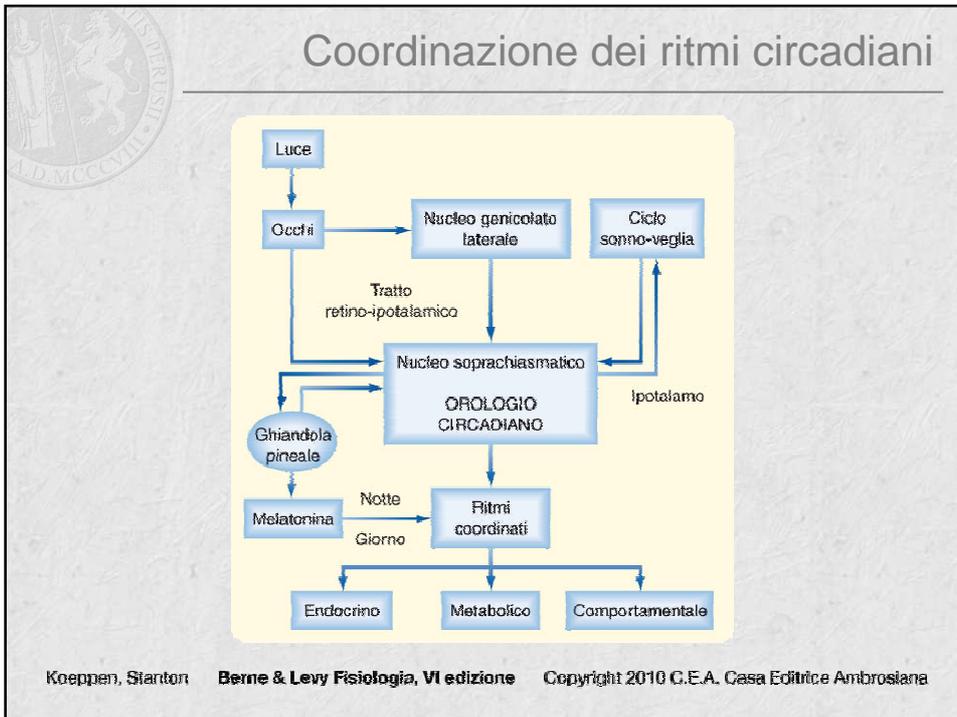
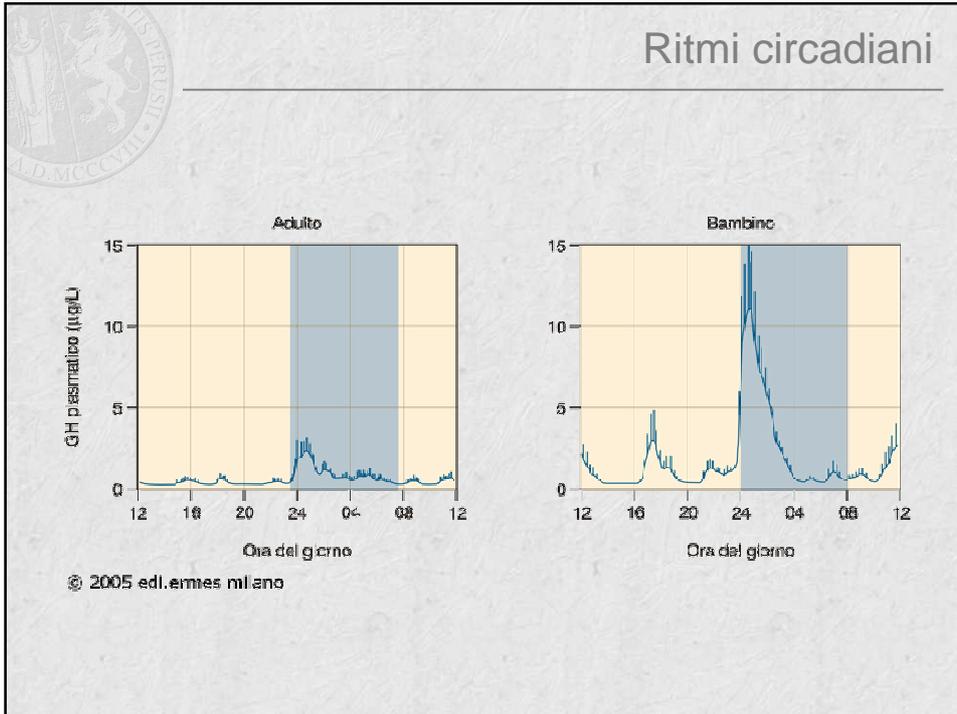
Controllo della secrezione



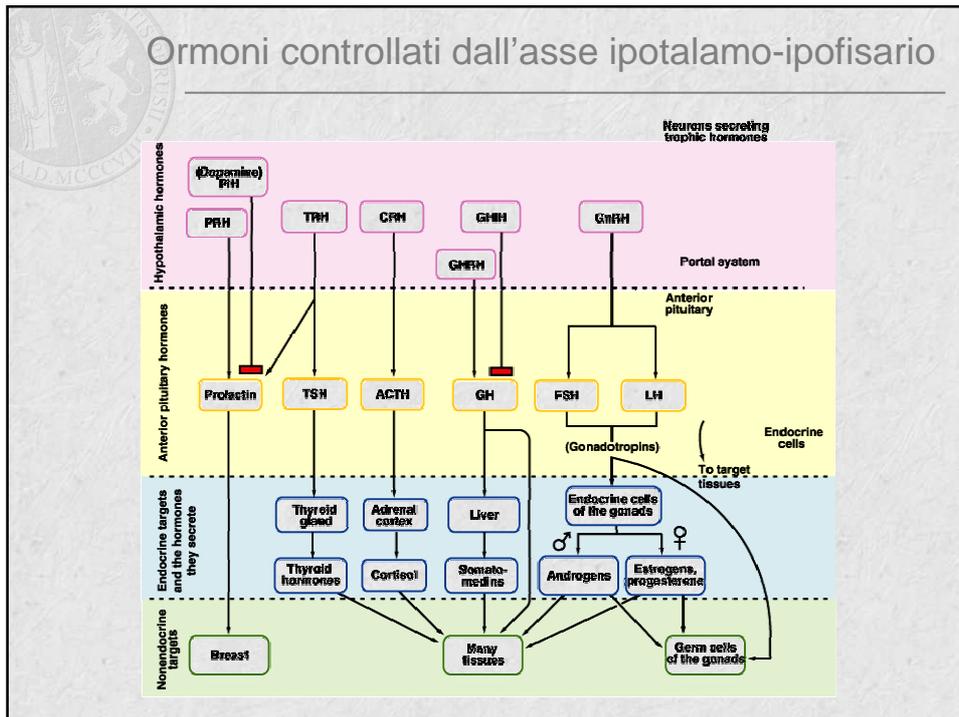
Asse ipotalamo-ipofisario



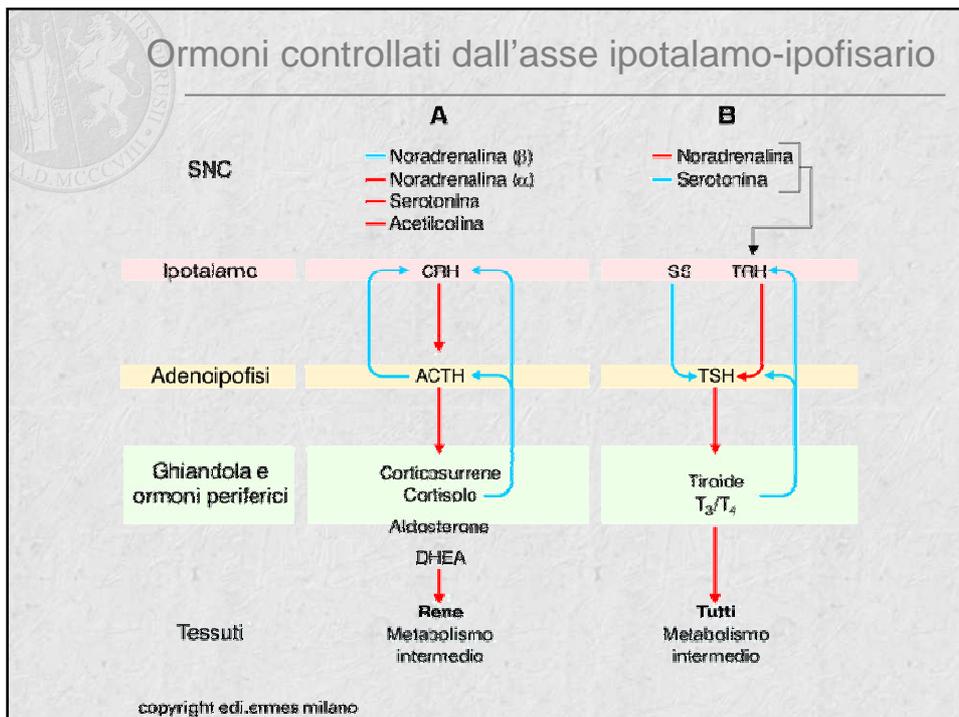


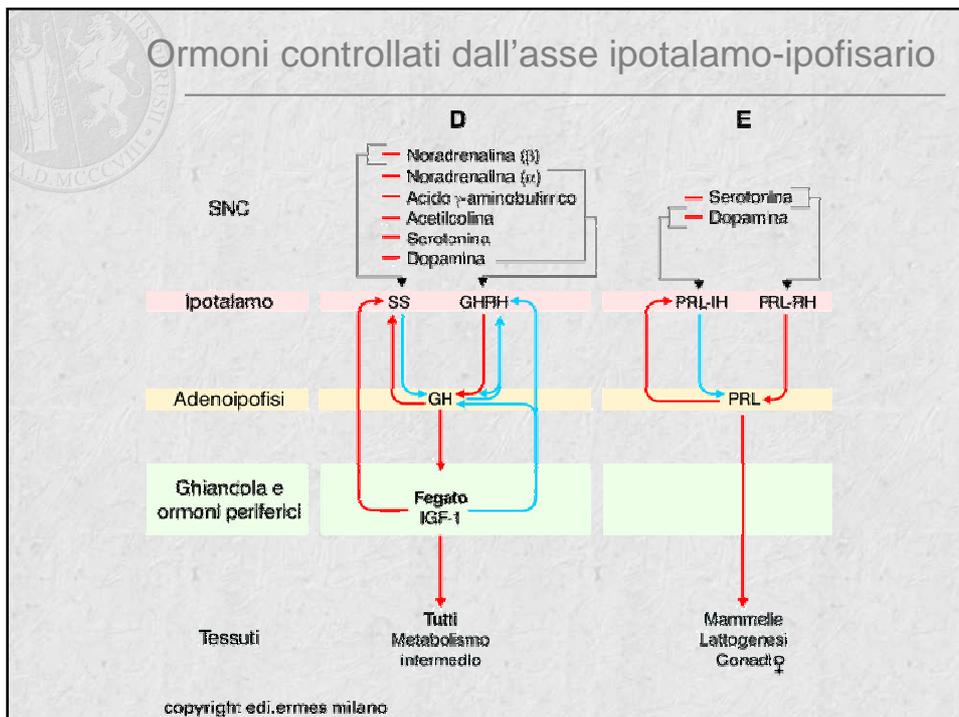
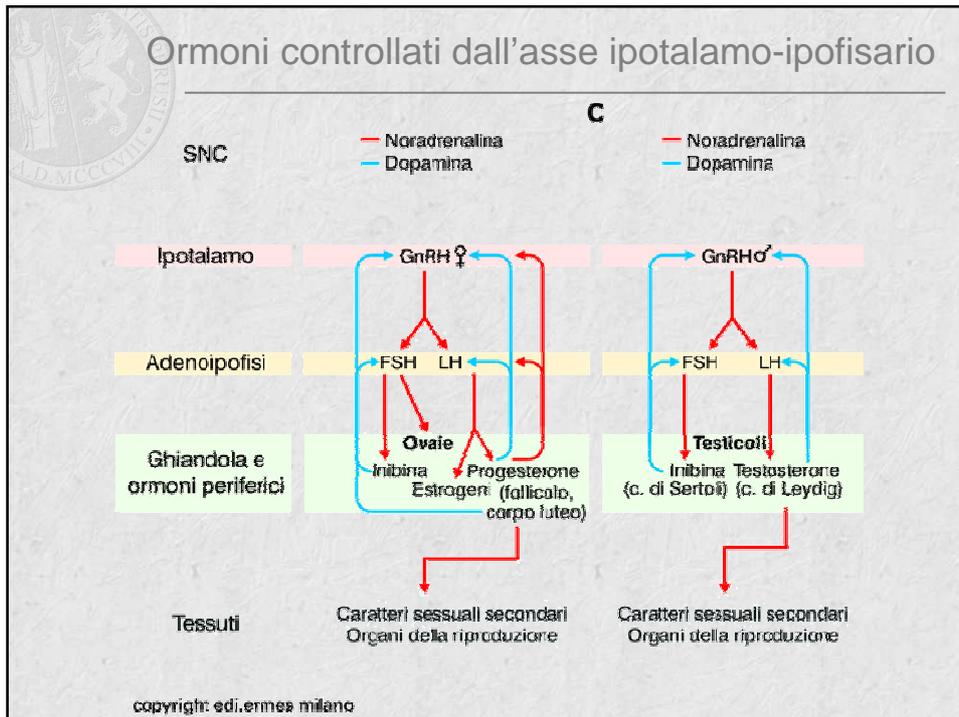


Ormoni controllati dall'asse ipotalamo-ipofisario



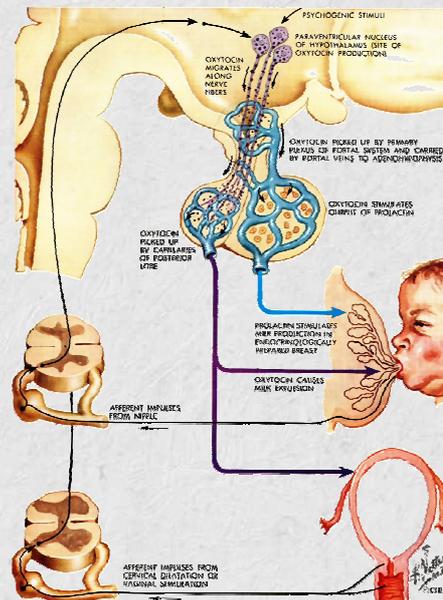
Ormoni controllati dall'asse ipotalamo-ipofisario





Ipofisi posteriore: Ossitocina

- Effetto sull'eiezione del latte: induce la contrazione delle cellule mioepiteliali degli alveoli.
- Effetto sull'utero (gravidità): attivazione della muscolatura e riduzione della durata del parto.



Il feed-back positivo dell'ossitocina

