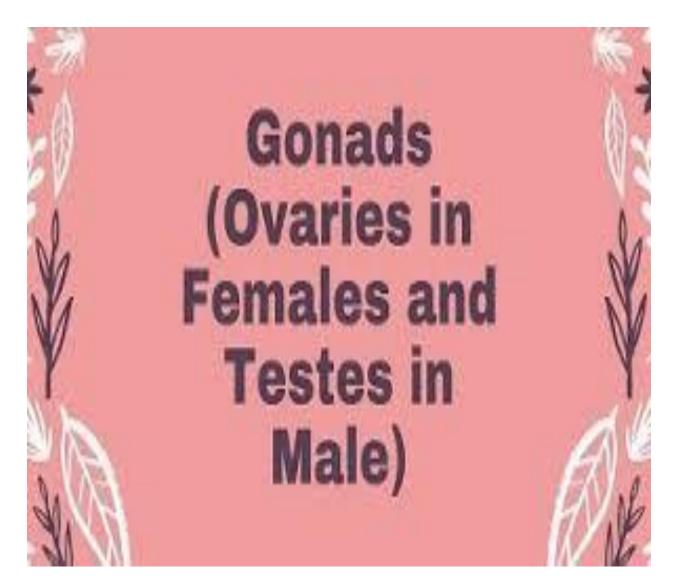
فیزیولوژی اختصاصی، جلسه نهم

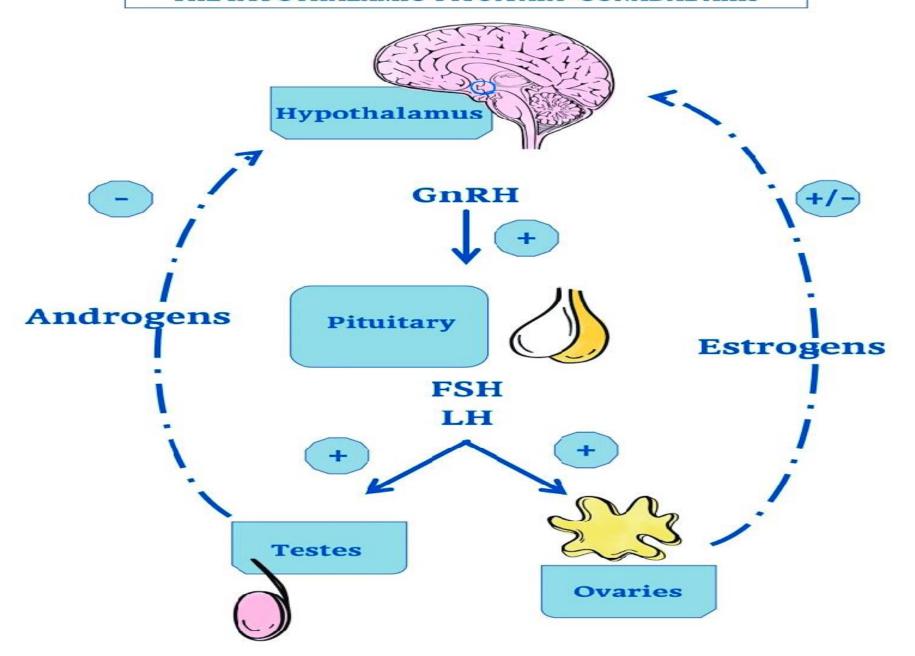
نقش های فیزیولوژیکی غدد جنسی

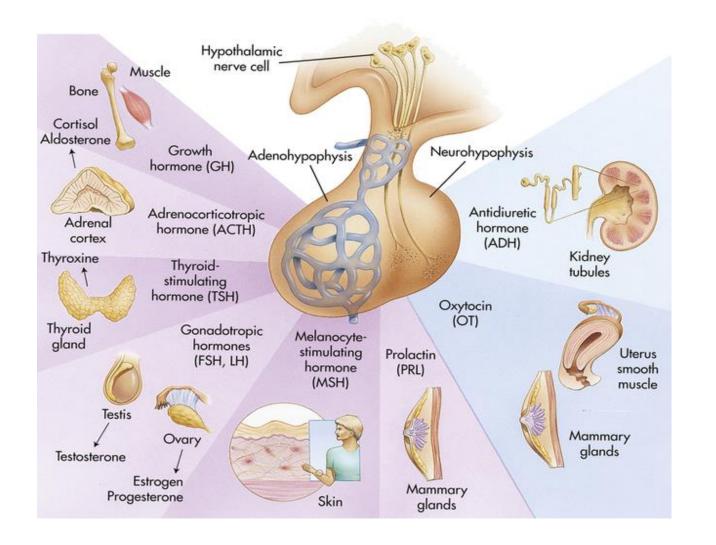
محور هيپوتالاموس- هيپوفيز- غده جنسى

هیپوفیز و گنادوتروپین ها

Functions of:





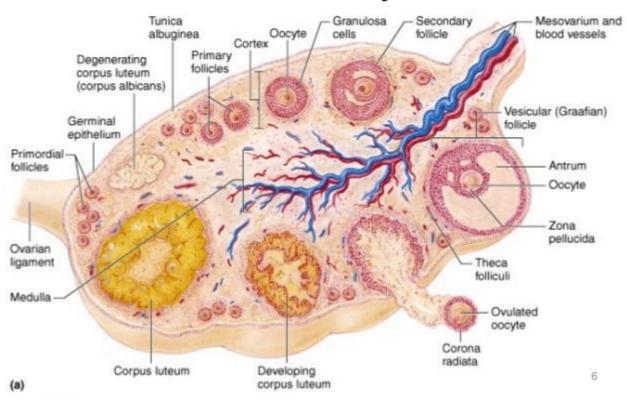


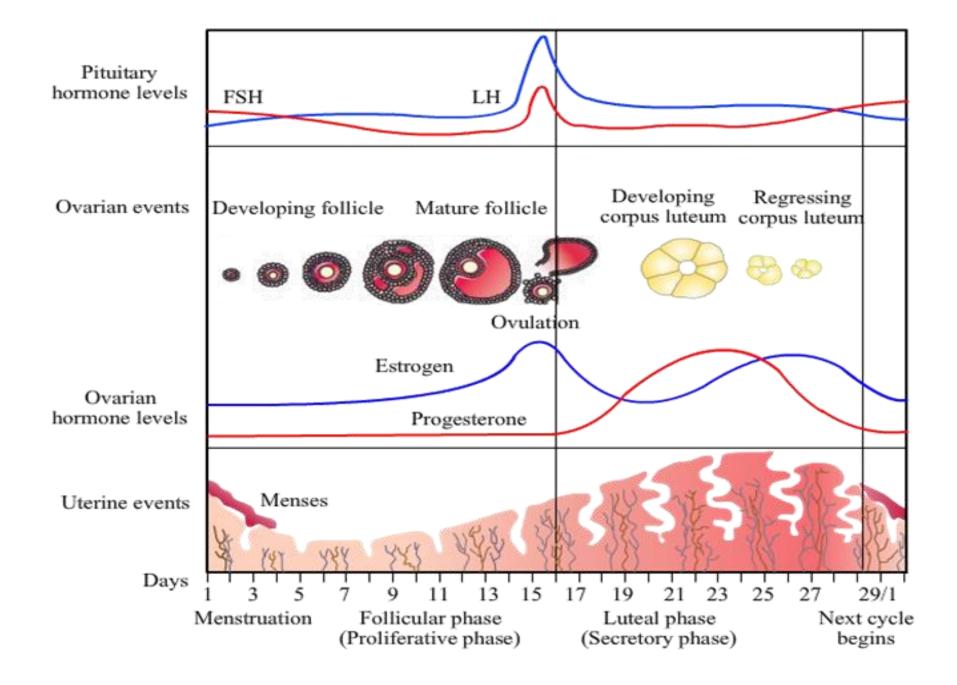
فیزیولوژی اختصاصی، جلسه دهم

اثرات اختصاصی، عمومی و رفتاری هورمون های جنسی

ساختمان و دوره های فیزیولوژیکی تخمدان

The ovary





فیزیولوژی اختصاصی، جلسه یازدهم

چرخه فحلی و مراحل آن، رفتار فحلی،

انواع چرخه های فحلی، اهمیت فحل یابی

Estrous cycle? menstrual cycle?

- ■In estrous cycles, reabsorbtion of the endometrium occur if conception does not occur during that cycle.
- Animals that have menstrual cycles shed the endometrium through menstruation instead.
- animal with estrous cycles, females are generally only sexually active during the estrus phase of their cycle.
- This is also referred to as being "in heat."
- females of species with menstrual cycles can be sexually active at any time in their cycle, even when they are not about to ovulate.

STAGES OF ESTROUS CYCLE

- Four stages:
 - Proestrus
 - Estrus
 - Metestrus
 - Diestrus
 - Follicular phase = Proestrus + Estrus
 - Luteal phase = Metestrus + Diestrus

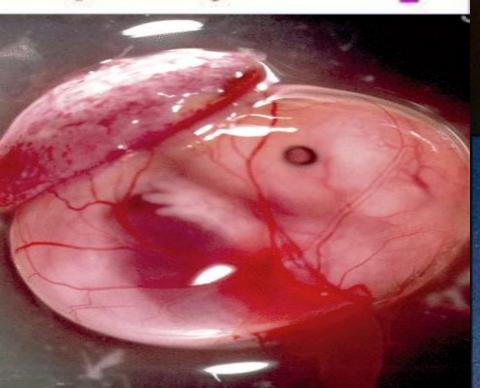
Estrous Cycle Intervals

- Polyestrous: animals that cycle continuously throughout the year if they are not pregnant (cattle and swine)
- Seasonally polyestrous: animals with seasonal variations in estrous cycles (horse, sheep, cat)
- Diestrous: animals with two cycles per year, usually spring and fall (dog)
- Monoestrous: animals with one cycle per year (fox and mink)

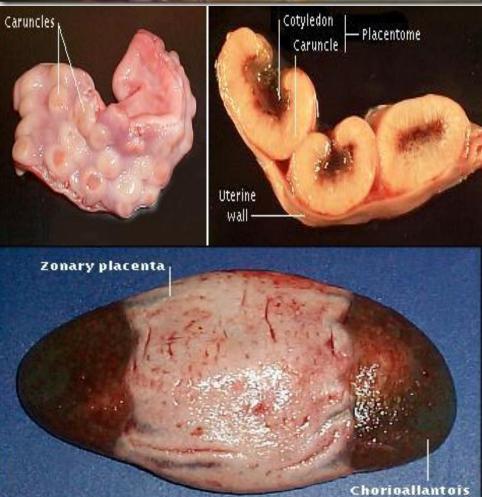
فیزیولوژی اختصاصی، جلسه دوازدهم

آبستنی، جفت و نقش های فیزیولوژیکی آن، انواع جفت









Functions of Placenta

Nutritive function:

Glucose, iron, calcium, phosphorus, aminoacids, water, NaCl, vitamins and fatty acids

Excretory Function:

Waste

products like urea, uric acid diffuse form foetal to maternal blood

Immunological function:

The

foetus is antigenically a foreign body, the placenta protects the embryoand foetus from rejection. The MHC class I and II are not present on the placental trophoblast.

Barrier Function:

Though

large molecular weight substances cannot cross the placenta

Respiratory Function:

Exchange

of oxygen and CO2 between fetuse and mother. It is facilitated by three factors: HbF, Large quantity of Hb, Double Bohr effect

PLACENTAL FUNCTIONS

Endocrine function

Steroid Hormones:

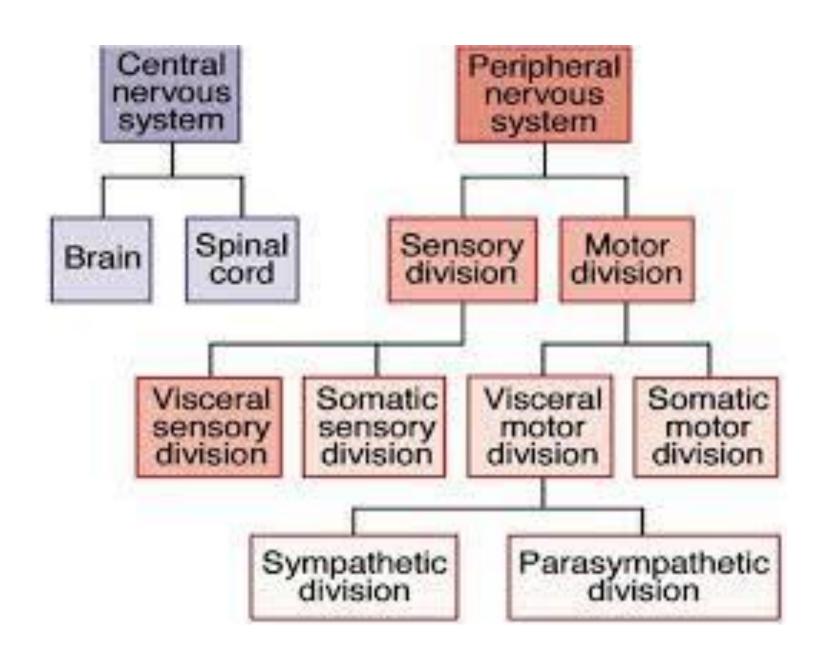
- 1- Estrogens
- 2- Progesterone

Protein hormones:

- 1- Human chorionic gonadotrophin (hCG)
- 2- Human placental lactogen (hPL)
- 3- Human chorionic thyrotrophin (hCT)
- 4- Hypothalamic and pituitary like hormones
- 5- Others: inhibin, relaxin and beta endorphins.

فیزیولوژی اختصاصی، جلسه سیزدهم

نگرشی بر دستگاه عصبی (قسمت اول)



فیزیولوژی اختصاصی، جلسه چهاردهم

نگرشی بر دستگاه عصبی (قسمت دوم)

