What two things control EVERYTHING in the body?

Nerves + Hormones

What forms from the peritoneum to help support and suspend the female tract?

Terminal district vision con 2

THE RESERVE OF A SHARE BUILDING STREET SHOWS A SHARE SHOWING

Broad Ligament

What are the 3 areas of the broad ligament?

Mesovarium - portion supporting ovaries

Mesosalpinx - portion supporting oviduct

Mesometrium-portion supporting uterus

Draw and label an ovary of the mare and of most other species

Ovulatory

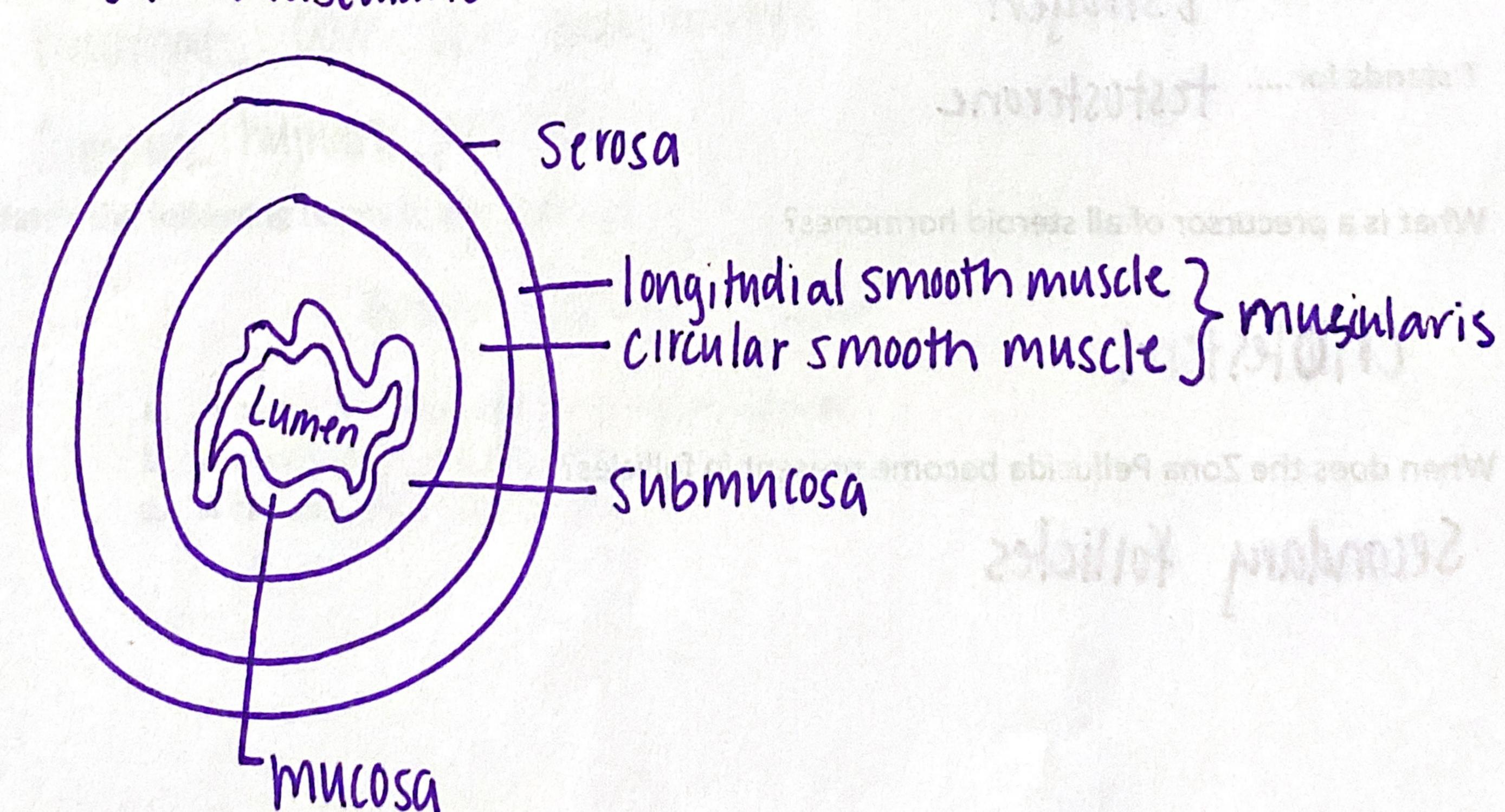
Ovulatory

Ovulatory

Thelium

Mare: What are the 4 layers of tissues are found within the female reproductive tract?

Serosa -> muscularis -> submucosa -> mucosa



Immediately after ovulation, what does the remaining follicular cells transition into? What happens ~ 5 days later? What happens once the CL is lysed?

Corpus hemorrhagicum (bloody body) -> Corpus Luteum (yellowbody)-> (Urpus albicans (white body) Match the term with the correct definition:

A Primordial follicle | C Secondary follicle | D Primary follicle | BAntral Follicle

- a. Primary oocyte surrounded by a single layer of squamous cells, smallest follicle in cortex
- b. Antrum is present, consists of an oocyte, follicular fluid, granulosal cells, theca interna and externa
- c. 2/more layers surround the oocyte, zona pellucida is present but the antrum is not
- d. Primary oocyte surrounded by a single layer of cuboidal celis

What does the antrum look like and what is in it?

- a: Blisters; holds hormones the follide has secreted.
- b. Yellow; dense granulosa cells or large luteal cells
- c. White; scar tissue from the corpus luteum.
- d. Receptors that only accept testosterone.

What are small luteal cells? What are large luteal cells?

hyperplasia (LH receptor)

granulosa cells

hypertrophy (FSH receptor)

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P4 stands for.... Progesterone

E2 stands for.... FStrogen

T stands for testosterone

What is a precursor of all steroid hormones?

Cholesterol

When does the Zona Pellucida become present in follicles?

Secondary Follicles

The basement membrane begins to degenerate right before ovulation, what is the enzyme responsible for this?

- a. Aromatase
- b. Collagenase
- c. Progestin
- d. Estradiol

What are the components of the oviduct?

Mtundibulum, ampulla, ampullary-isthmic junctum, isthmius, uterotubal junction

True or False: The site of fertilization is located in the utero-tubal junction.

False i ampullary isthmic junction

Match the following terms with the definition:

C Infundibulum A Fimbria B Ampulla 1) Isthmus E Utero-tubal junction

- A: Lines the infundibulum, contains ciliated cells to move the ovum.
- First half of the oviduct, large diameter, contains many folds, ciliated epithelium, not very muscular
- Opening to oviduct, funnel shape that covers the ovary to capture the ovum
- Second half of the oviduct, small diameter, contains fewer folds, ciliated epithelium, very muscular
- E. Where uterine horn meets oviduct, functions to prevent polyspermy

What are the 2 types of uteruses?

Bicornate: cows, does, sows, bitches

Simplex: humans, primates

Match the following terms to the species

BMare 6Cattle 0Sow

- a. A cervix that contains interdigitating pads
- b. A cervix with cervical folds
- c. A cervix with annular rings

Draw and explain the 2-cell/2-gondatrophin theory:

Big Picture: Cholesterol

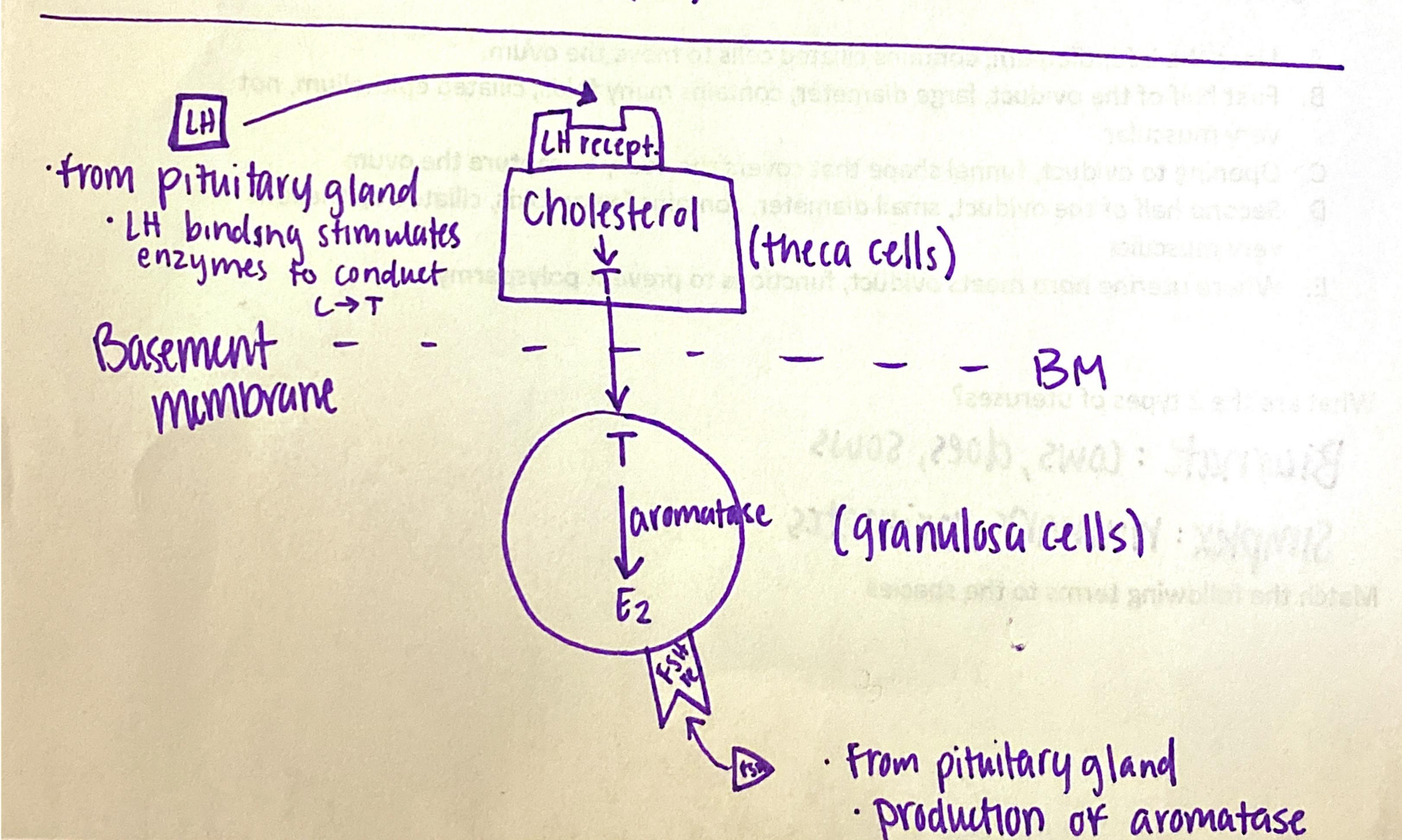
Progesterone (P4)

testosterone (T)

Basement

membrane

Estradiol / Estrogen] grannlosa cells



- -Cortex: contains germ cells + ovulation occurs here.
 - * can you palpate for follicles on many species? Yes ble cortex is external, mares are internalso You cannot palpate for follicles.
- -Medulla: contains connective tissue, houses lymphatic vessels & Nerves & blood
- -germinal epithelium: covers tunica albuginea breaks atovulation
- Mulica albuginea: dense connective tissue, provides structure to ovary

muscularis

- Hilus = where vessels, nerves, & blood/ducts enter an organ
- Serosa: thin layer enclosing body cavities, prevents adhesions
- longitudinal: contraction = perastalsis (propelling waves)
- Circular : contraction : lumen constriction (closing off)
- -submncosa: connective tissue containing blood, lymph, & nerves
- -Mucosa: secretory layer on inside of tubular portion