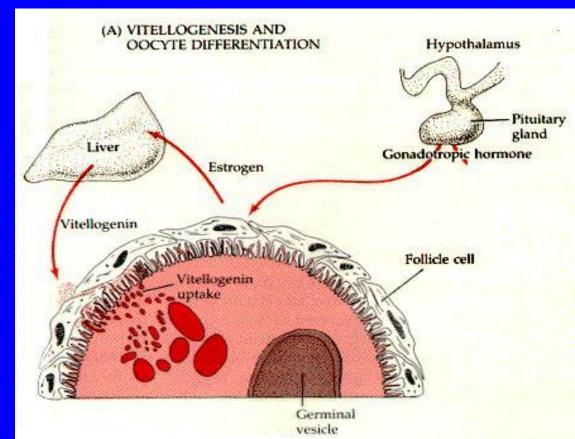
Vitellogenesis

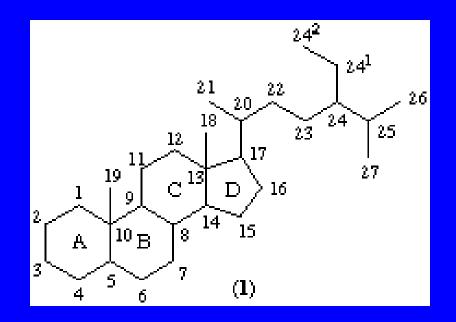
- Ovary produces estradiol E2
- Liver produces yolk platelets or globules
- Gonad incorporates yolk into eggs





Steroids

- Ovary
 - Makes estradiol, later progesterone
 - Egg building, then maturation
- Testis
 - Makes testosterone
 - Makes the sperm, then capacitates the sperm

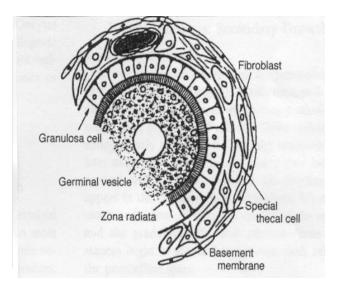




Ovarian Cells

- Two cell layers
- Outside is theca
- Inside is granulosa
- Change function as egg goes from building to maturing

Diagrammatic representation of the follicle and oocyte during early vitellogenesis

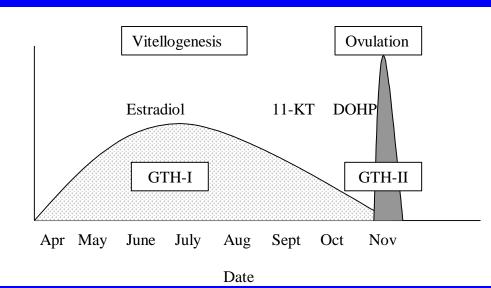


Nagahama, 1983



Maturation

- As GtHs change, so do the steroids
- E2 turns to progesterone
- P helps to mature the egg
- Makes fertilization possible





Summary

- Conditions permit maturation
- Process begins
- GnRH GtH steroids
- Eggs are built
- Eggs mature
- Correct environment
- Spawning proceeds



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