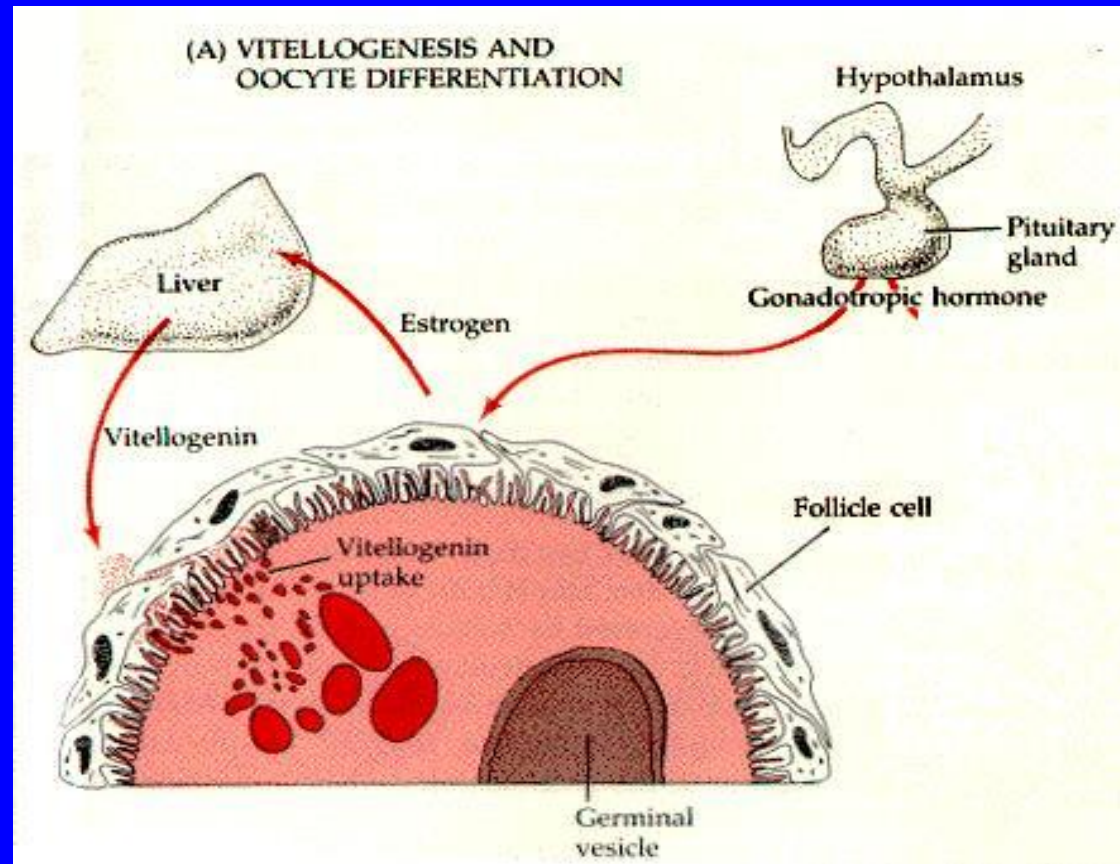


# Vitellogenesis

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

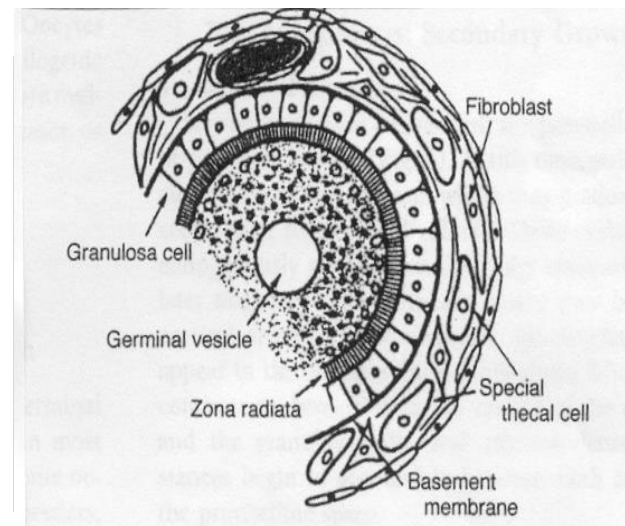




# Ovarian Cells

- 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

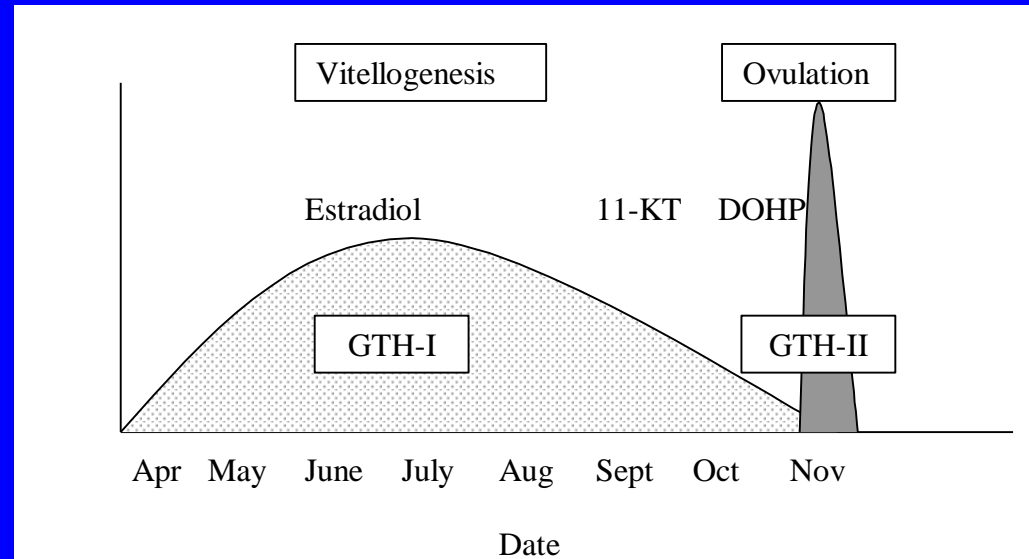


Nagahama, 1983



# 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

