

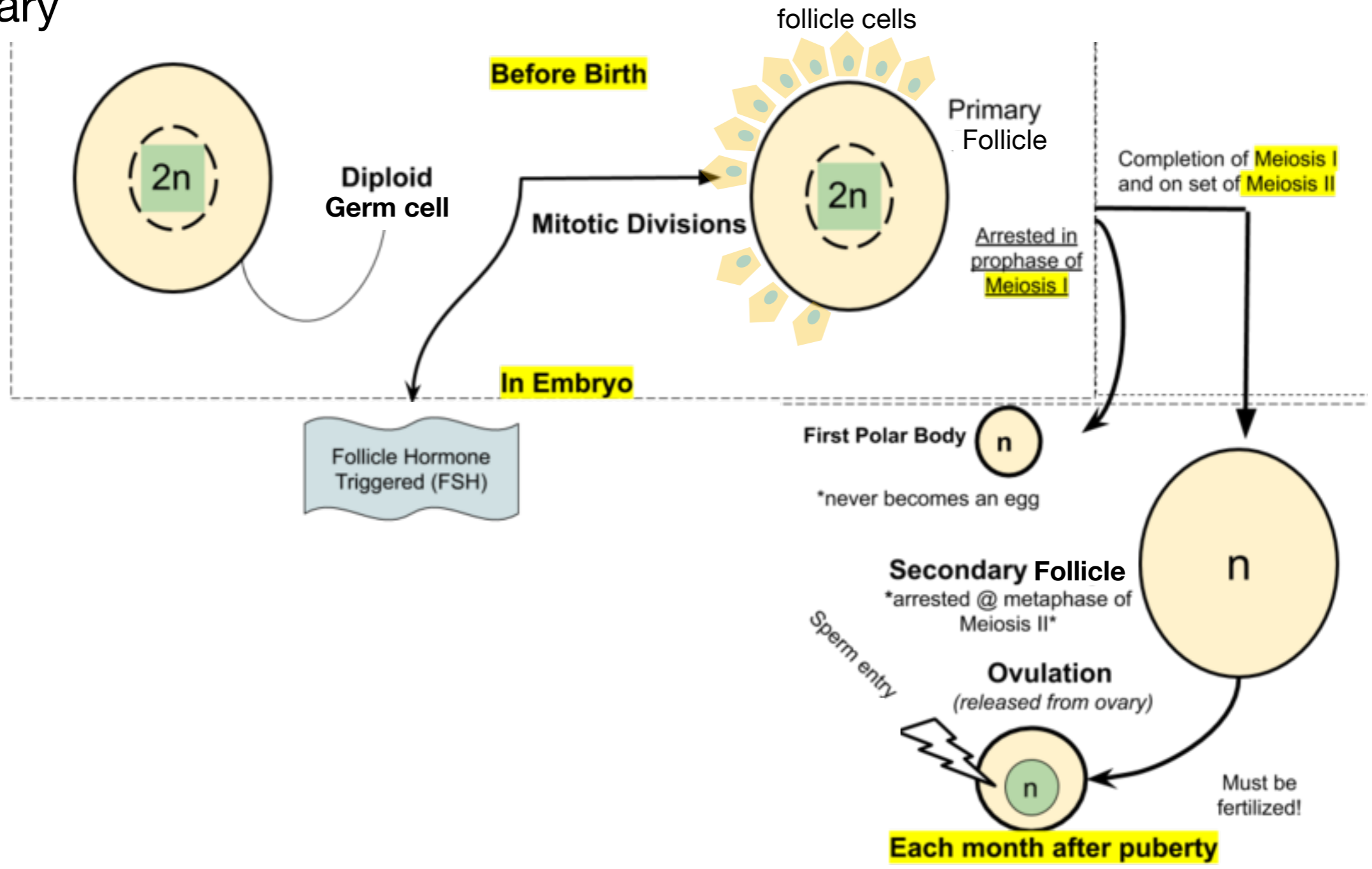
# Sexual Reproduction

11.4



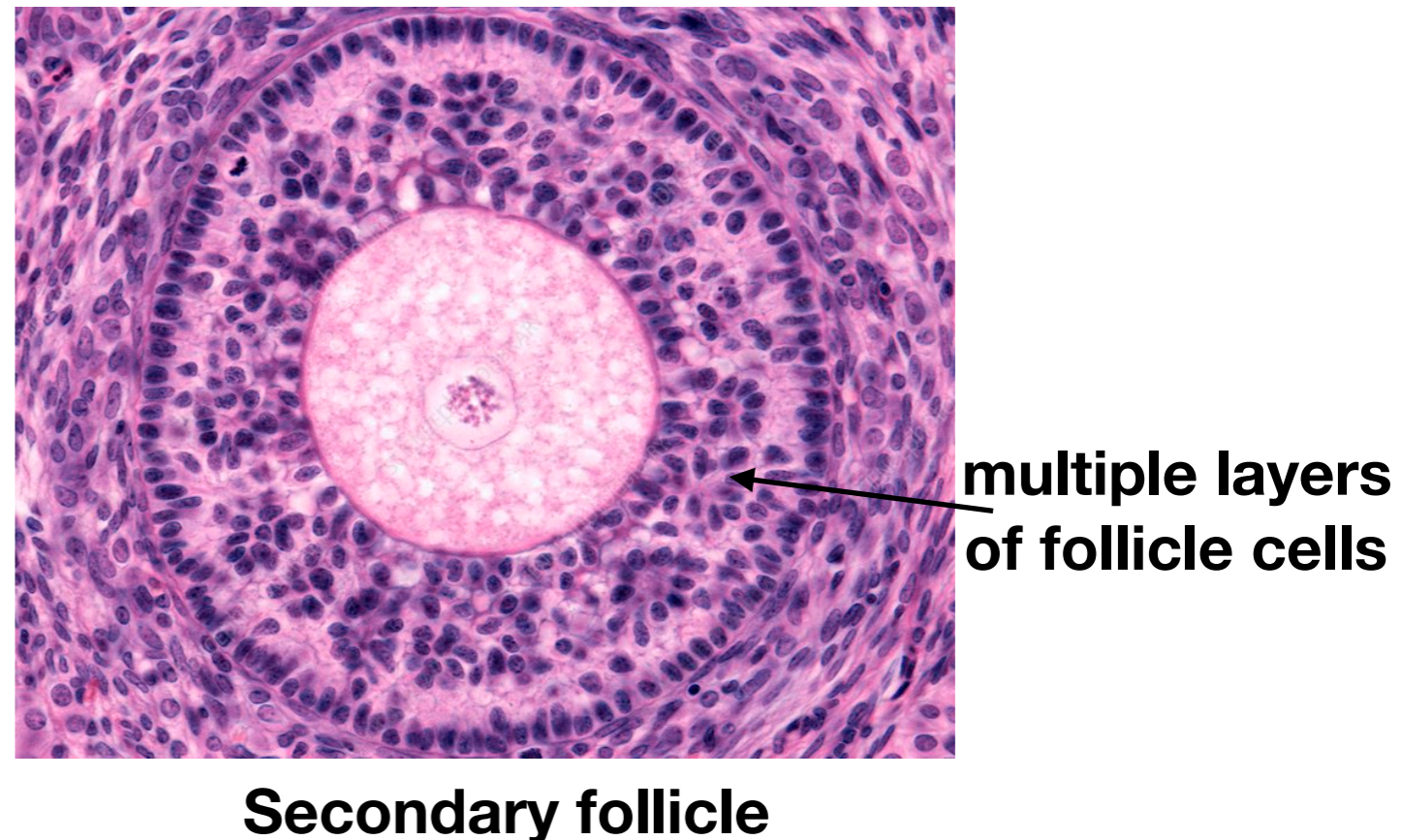
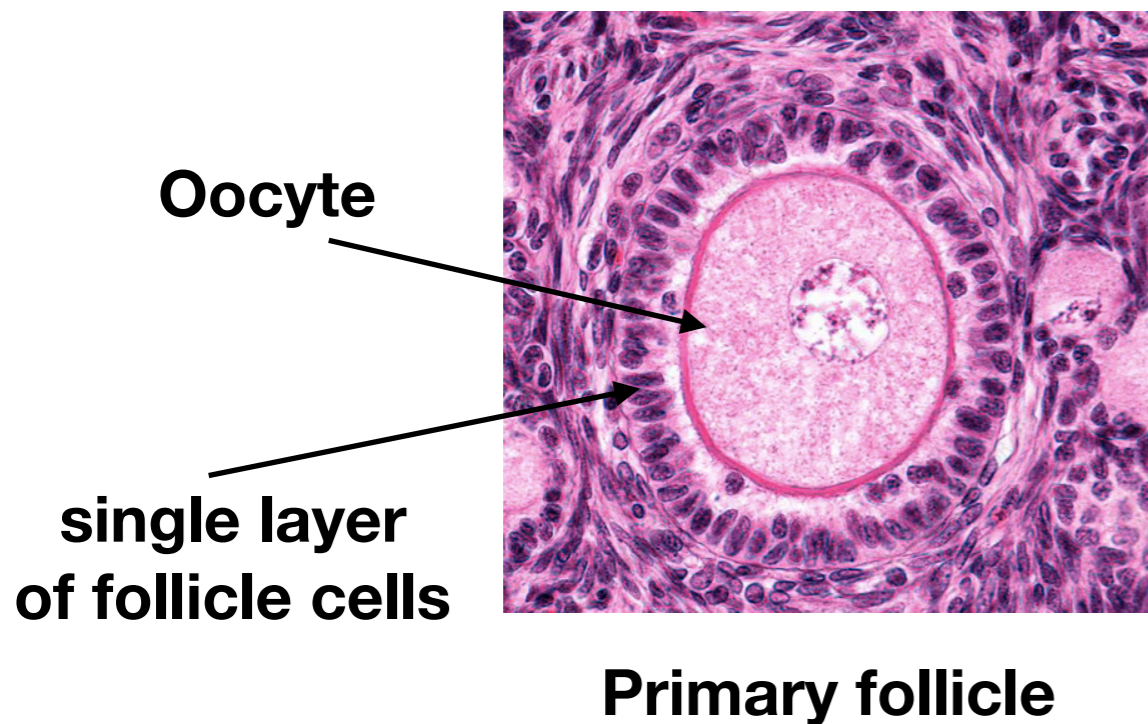
# Oogenesis

- The Production of Eggs via Mitosis then Meiosis
- In the ovary

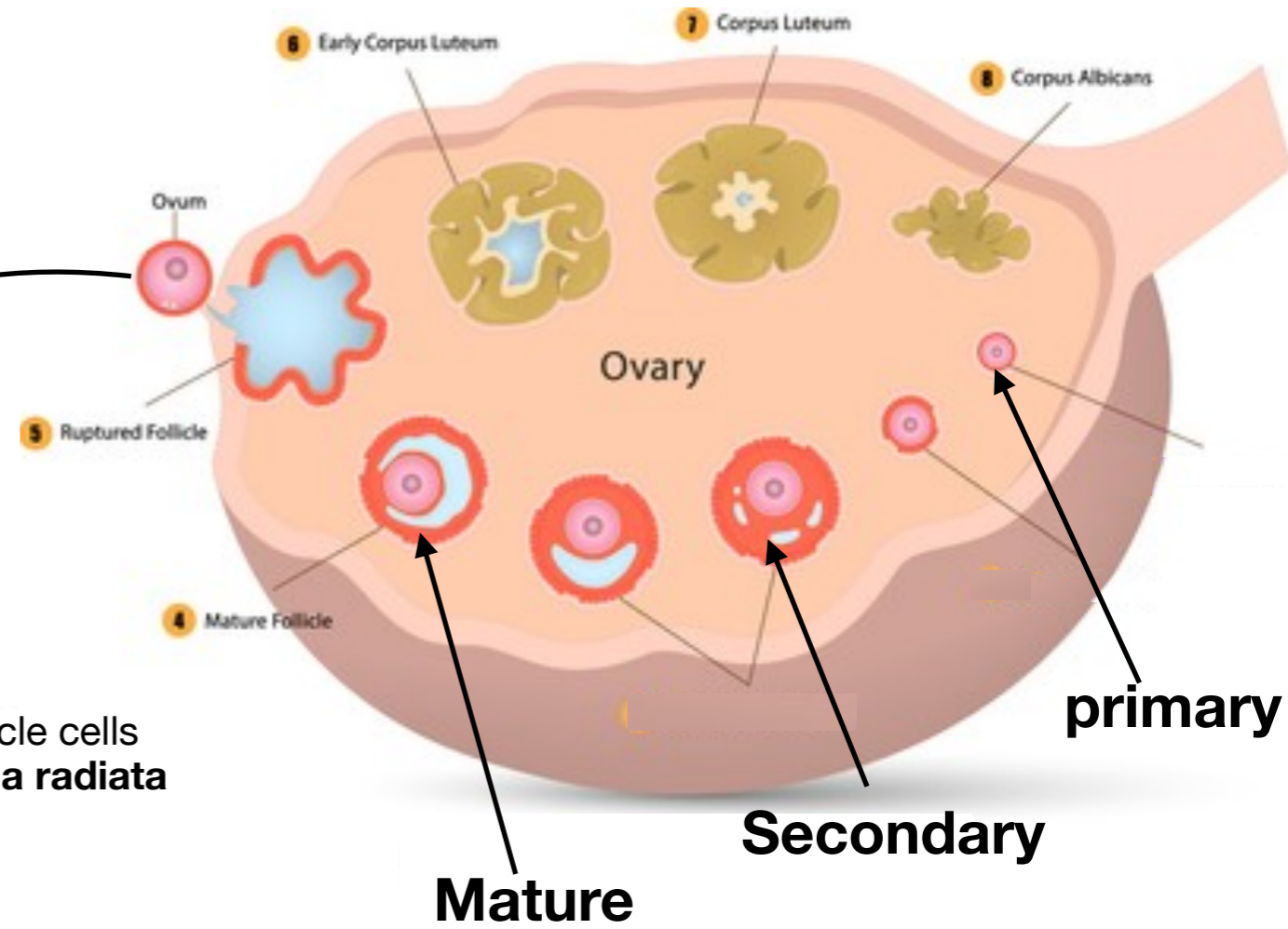
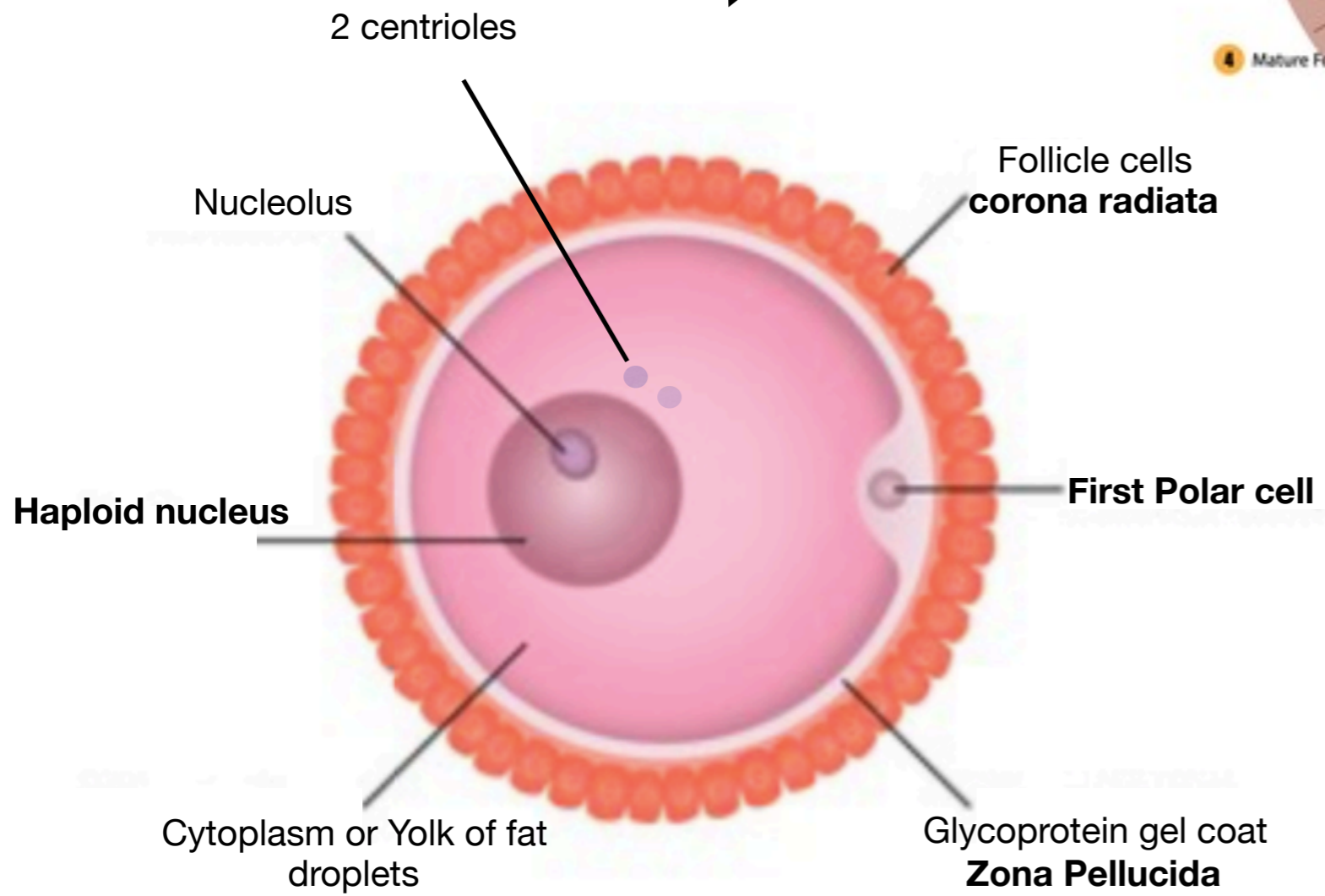


# Oogenesis

- The Production of Eggs via Mitosis then Meiosis
- In the ovary of a female fetus
  - germ cell divides (mitosis)
  - grows follicle cell layer to form primary follicle (400,000)
  - begins meiosis by around 4-5 mth and is arrested in meiosis I
- At puberty FSH stimulates follicle maturation during menstrual cycle

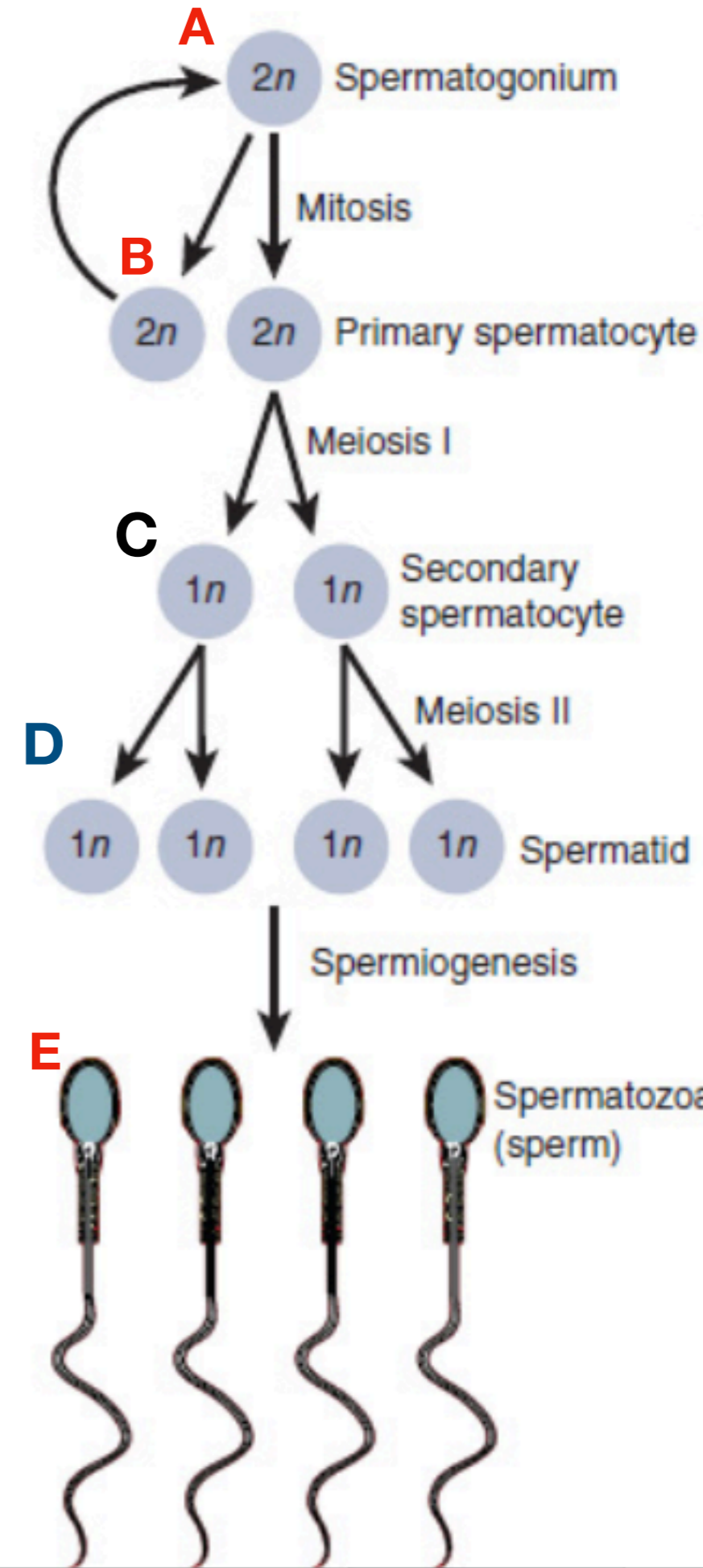
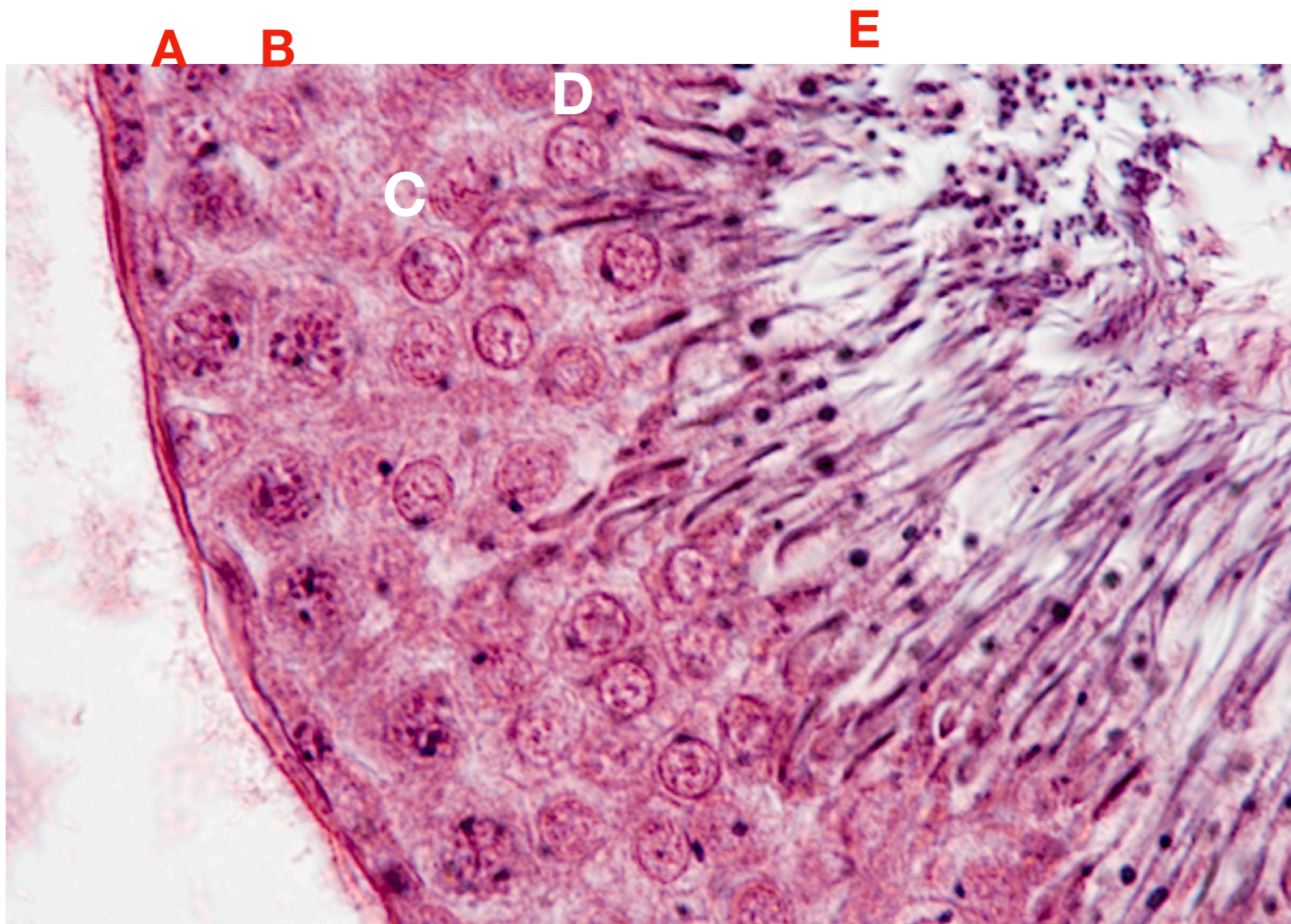


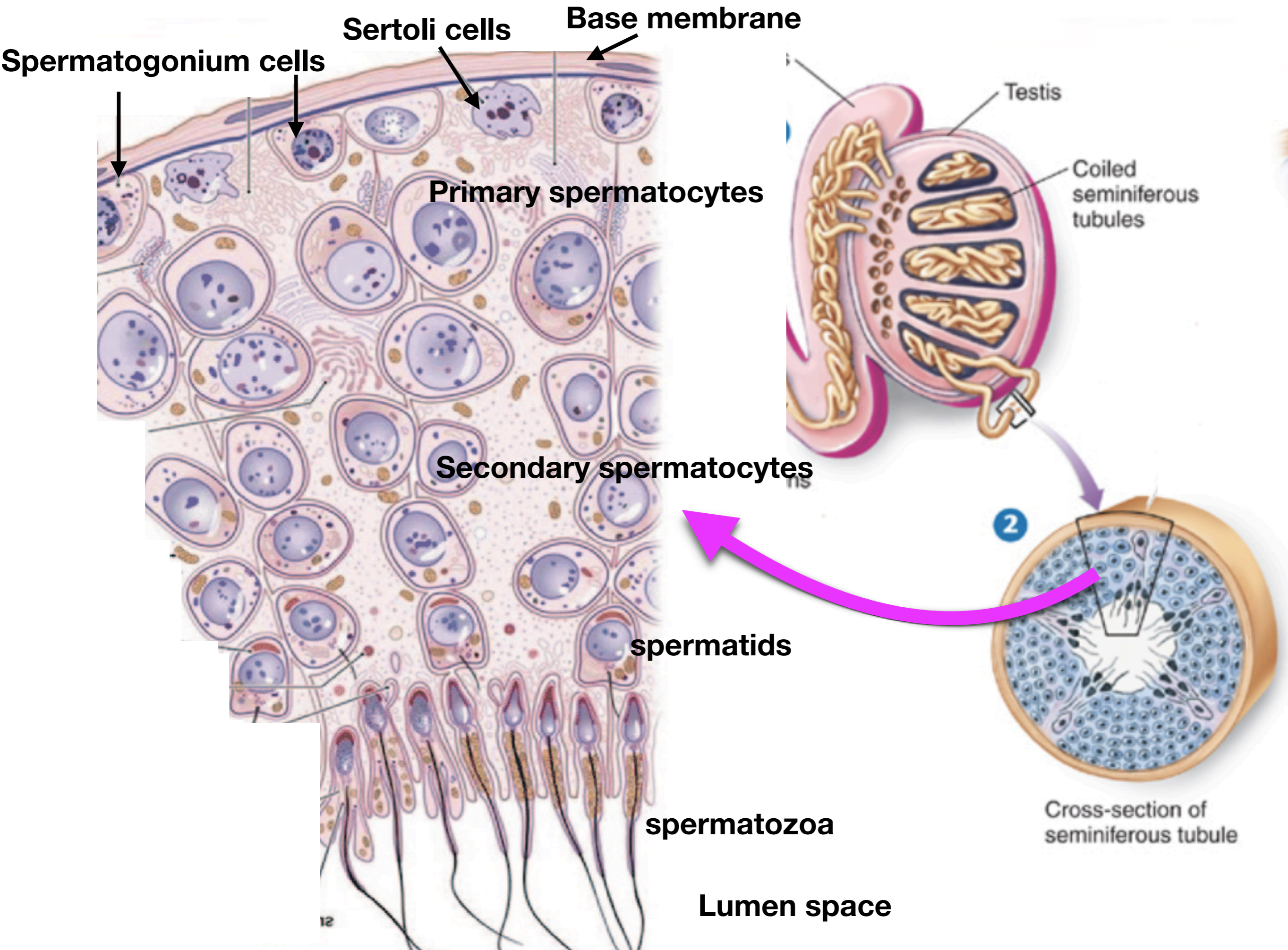
# Ovum (egg)



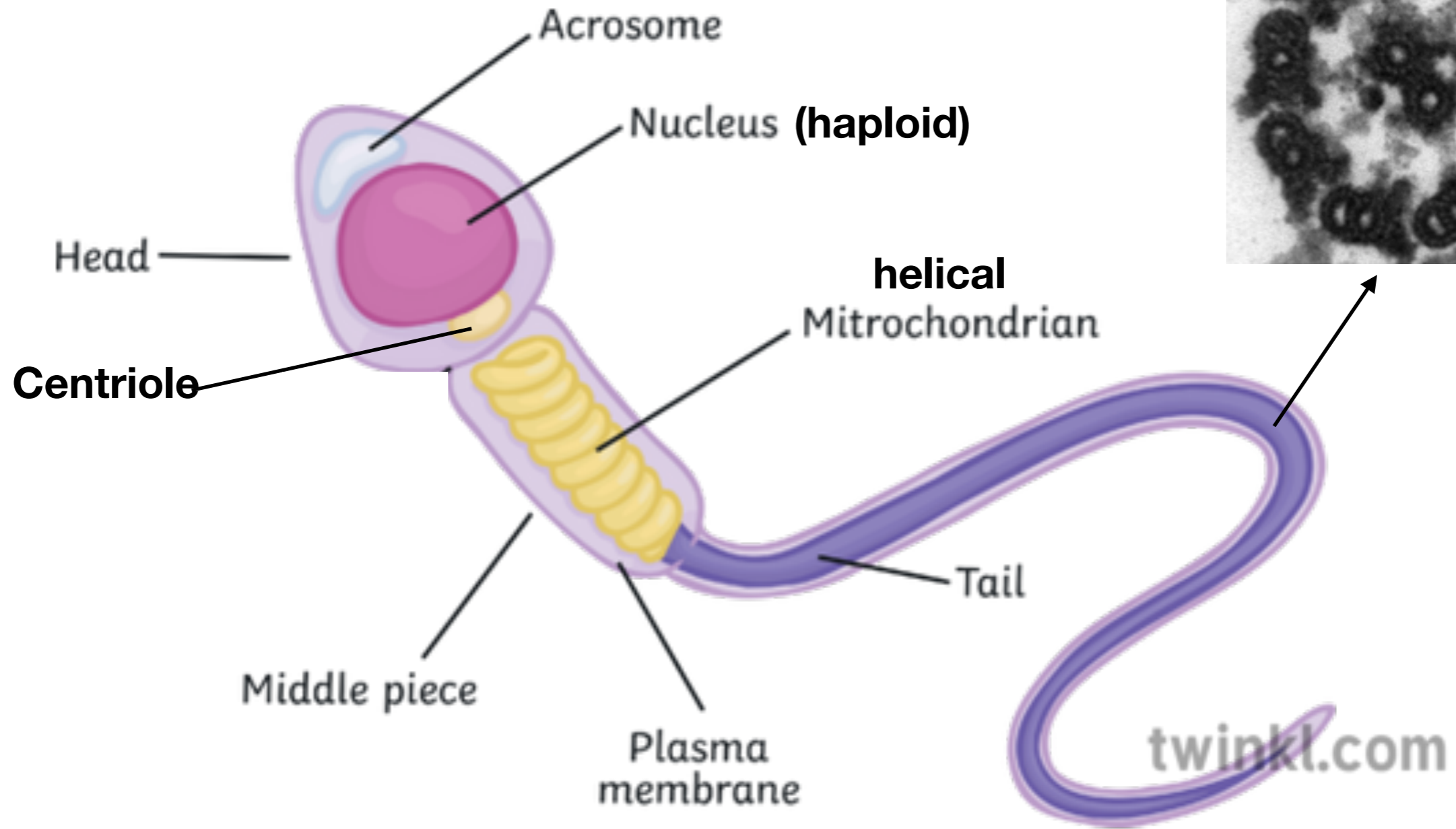
# Spermatogenesis

- The production of sperm via Mitosis then Meiosis
- In the seminiferous tubules





# Spermatozoa



# Try this

- Data based questions on page 503



# Oogenesis vs Spermatogenesis

## Ovum

- One cell large from two meiotic division (degenerated polar body of the other)
- completes meiosis II after fertilization
- cell increase in size (and cytoplasm)
- organelles maintained

## Sperm

- four spermatozoa results
- reduced size with divisions
- reduced cytoplasm
- reduced organelles

