**Spermatogenesis**

* Sperm = spermatozoa (plural), spermatozoon (single)
* Spermatogenesis = the formation of spermatozoa, occurs in the walls of the seminiferous tubules
* Gives rise to primary spermatocytes through mitosis
* Spermatogonia = immature/mother cells

**1. Spermatogonia** *(2n)*divide by mitosis. Can become Type A spermatogonia and continue dividing mitotically near the basal lamina (outer edges of seminiferous tubule). Can also become Type B **primary spermatocyte** *(2n).* Gets pushed towards lumen or the middle of the seminiferous tubule.

**2.** Primary spermatocyte undergoes first stage of meiosis to produce **secondary spermatocytes** *(n).*

**3.** Undergoes second stage of meiosis to produce 4 round daughter cells called **spermatids** *(n).* Steps 1-3 also known as **spermatocytogenesis**.

**4.** Spermatids mature into **spermatozoa/sperm.** Cytoplasm of cell is lost, tail containing contractile material forms. Also known as **spermiogenesis**.

