	Description	Function
sperm (spermatozoa)	lost most of their cytoplasm and cellular organelles, and don't survive in the female reproductive tract more than a few days after ejaculation composed of: 1. head 2. midpiece 3. tail	
head	consists mostly of nucleus with an acrosome	
acrosome	vesicle filled with hydrolytic enzymes	enzymes allow sperm to penetrate the female oocyte for fertilization
midpiece	contains many mitochondria	provides the needed energy ATP for the tail once the sperm cells are ejaculated
tail	flagellum	performs a wip-like motion, b cretting the sperm

- Process of spermatogenesic
 begins with spermatogonia, diploid (46 cr 2n b omosomes) stem cells located in outer portion of semicification of the number of the portion of the number of the portion of the number of the portion of the number of the number of the portion of the portion
 - stem cells
 - 3. each division moves cells closer to lumen of tubule
 - 4. primary spermatocytes with 46 chromosomes enlarge = nucleus divides in mitosis I = 2 haploid (n) secondary spermatocytes, each with 23 double chromosomes
 - 5. 2 secondary spermatocytes divide by second nuclear division (meiosis II) ->4 haploid **spermatids**, each with 23 single chromosomes
 - 6. spermiogenesis: spermatids go through drastic change in shape/composition = making of sperm
 - 7. sertoli cells: surround the cells undergoing spermatogenesis, providing chem. environment for the process/assisting the cells to move from basement membrane to lumen