"Spermatogenesis"

- Spermatogonia -> Speamatozoa
 - Initiated only at puberty
- Spermatogonia: Present in sex cords of testis as large pale yellow cells at birth
 - 'Release of LH from Pituitary'
- Binds to Leydig cells -> They release Testosterone -> Testosterone binds to Sertoli cells -> Increases Sperm maturation
 - 'Release of FSH from Anterior Pituitary
 Gland'
 - Increases Intracellular Androgenic Receptor Proteins (IARP)
 - Increases seminal fluid

'Steps of Spermatogenesis'

- PGCs -> Mitosis (due to above mentioned hormones) -> Stem Cells -> Mitosis -> Type A Dark Spermatogonia -> Mitosis -> Type A Pale Spermatogonia -> Mitosis-> Type B Pale Spermatogonia -> Mitosis-> Primary Spermatocyte -> Meiosis-I (arrested 22 days in prophase) -> Meiosis-2 -> Spermatids -> Spermatozoa

'Steps of Spermiogesis'

- Only "Spermatids -> Spermatozoa" occurs
 by spermiogenesis
 Steps involved are:
 - 1) Acrosome formation (has lysosomal enzymes and mitochondria)
 - 2) Nucleus condensation
 - 3) Neck, Middle piece, Tail formation 4) Residual Body Formation