## Ovarian Cycle

## 'Control of Ovarian Cycle: '

- By Hypothalamus (arcuate nucleus)
- Release GnRH -> Anterior lobe of Pituitary
gland -> Release Gonadotropins (FSH and LH)

'Hormones in Ovarian Cycle: '

- FSH and LH: Hypothalamus
- Estrogen: Theca Interna +Granulosa cells (follicles)
  - Progesterone: Corpus Luteum

## 'Action of FSH'

- 15-20 primodial follicles rescued

  Primodial follicle -> Grawing follicle -
- Primodial follicle -> Growing follicle -> Primary Follicle (which start to release Estrogen)
- FSH does not act upon these follicles rather the process occurs in it's presence

## 'Action of Estrogen: '

- Feed forward response
  - Acts on the uterus
- Uterine Endometrium enters Follicular or Proliferative stage
  - Cervical mucous thinning
  - Decreases FSH production (negative feedback)

'LH Hormone Surge: '

- Meiosis-I completed
  - Meiosis-2 initiated

[Meiosis-2 completes at graffian follcile stage with Secondary Oocyte stage after fertilization]

- Increase in estrogen and decease in FSH triggeres this surge
  - Causes release of Progesterone