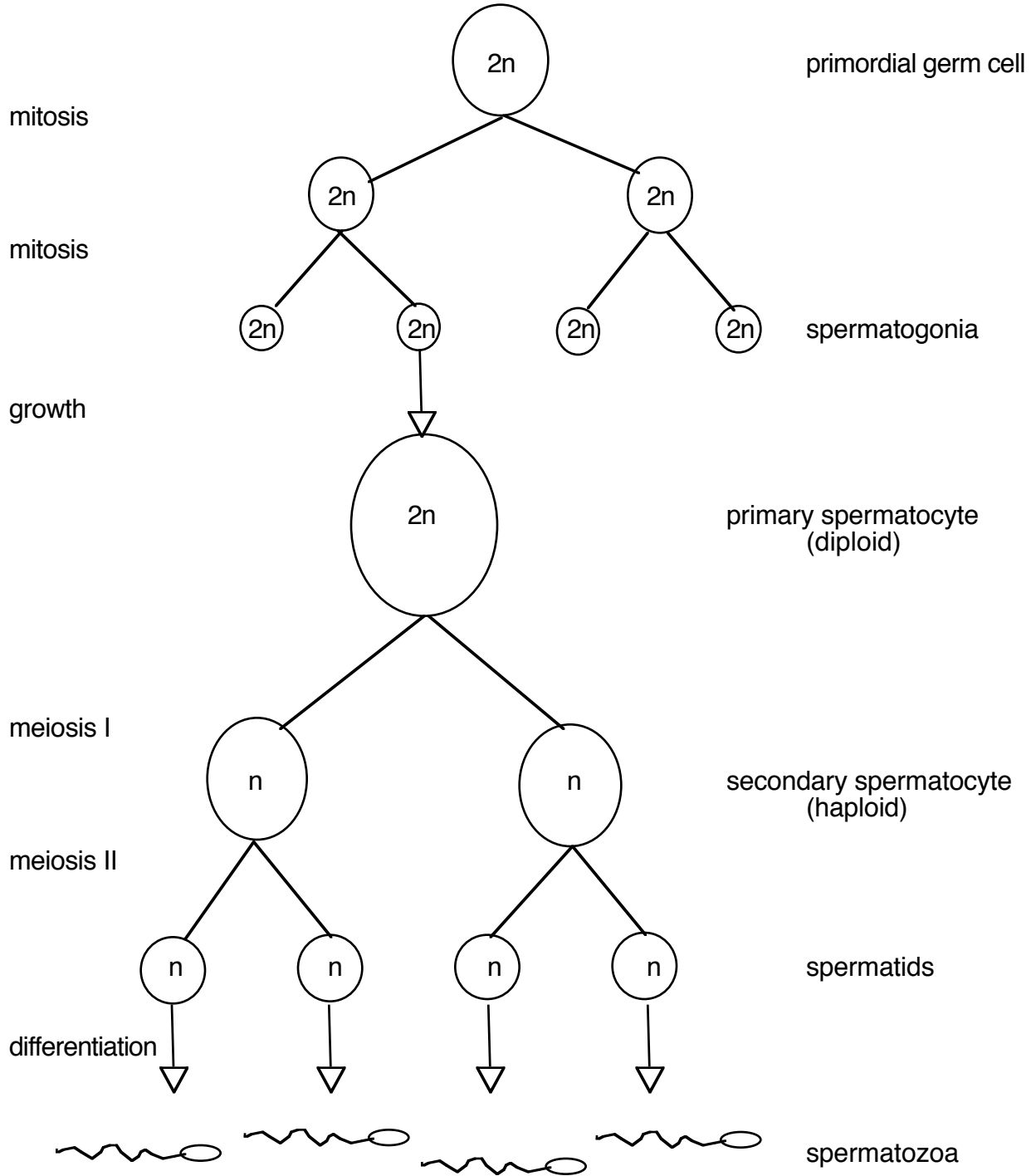


Human Reproduction

I. Production of Gametes

A. Spermatogenesis - the process of producing sperm cells.

1. Processes Involved (in seminiferous tubules of the testes)



(release of gametes: every ejaculation 250-400 million sperm)
(sperm made fresh daily after puberty)

2. Hormones Involved

- a. Pituitary gland produces FSH (follicle stimulating hormone)
FSH stimulates sperm production in seminiferous tubules
(stimulates primary spermatocytes to undergo meiosis I and become secondary spermatocytes)
- b. Pituitary gland produces LH (luteinizing hormone)
LH stimulates the interstitial cells to produce testosterone
(secrete it)
- c. Interstitial cells of the testes (Cells of Leydig) produce Testosterone
Testosterone stimulates the testes to produce sperm
(development of secondary spermatocytes into mature sperm)
and stimulates:
 - the growth of male accessory sex organs,
 - the development of secondary sexual characteristics,
 - the increase of libido.

