

SCIT 1408: Study Guide Outline of Laboratory Modules

Lab #11

Note: This list of modules contains all the structures you are to know for lab quizzes and practical exams. It is also an excellent study guide for lecture exams.

* *Starred items are found in the text book, but not in the lab manual.*

Module 38

Spermatogenesis

- Spermatogonia
- Diploid
- Primary spermatocyte
- Meiotic cell division
- Secondary spermatocytes
- Haploid
- Spermatids

Oogenesis

- Germinal epithelium
- Oogonia
- Primary oocytes
- Primary follicle
- Secondary oocyte
- Polar body
- Secondary or developing follicle
- Mature or Graafian follicle
- Activation (sperm penetration)
- Ovum
 - *Corona radiata
 - *Zona pellucida
- Zygote

Module 39

*Menstrual Cycle

- *Based on a 28-day cycle, know events of each day.
- *Pituitary Hormones—name and know their effects
 - *Follicle Stimulating Hormone (FSH)
 - *Lutenizing Hormone (LH)
- *Ovarian Hormones—name and know their effects
 - *Estrogen
 - *Progesterone
- *Follicular Phase
- *Luteal Phase
- *Proliferative Phase
- *Secretory Phase

- Ovulation
- *Menarch
- *Menses
- *Menopause
- *Corpus luteum
- *Corpus albicans

Module 40

- *Fertilization and Cleavage
 - *Fertilization
 - *Activation, stimulating second meiotic division of secondary oocyte
- *Cleavage
 - *Zygote
 - *2-cell stage
 - *4-cell stage
 - *8-cell stage
 - *Morula (16-32 cell stage)
 - *Blastocyst
 - *Inner cell mass
 - *Trophoblast
 - *Implantation
 - *Human Chorionic Gonadotropin (HCG)
 - *Placenta

Module 41

- *Embryonic stage
 - *Embryonic disc
 - *Primary germ layers
 - *Ectoderm
 - *Endoderm
 - *Mesoderm
 - *Chorion
 - *Lacuna
 - *Amnion
 - *Yolk sac
 - *Allantois
 - *Teratogens

Module 42

- *Fetal stage
 - Fetus
 - Placenta
 - Amniochorionic membrane
 - Umbilical cord