

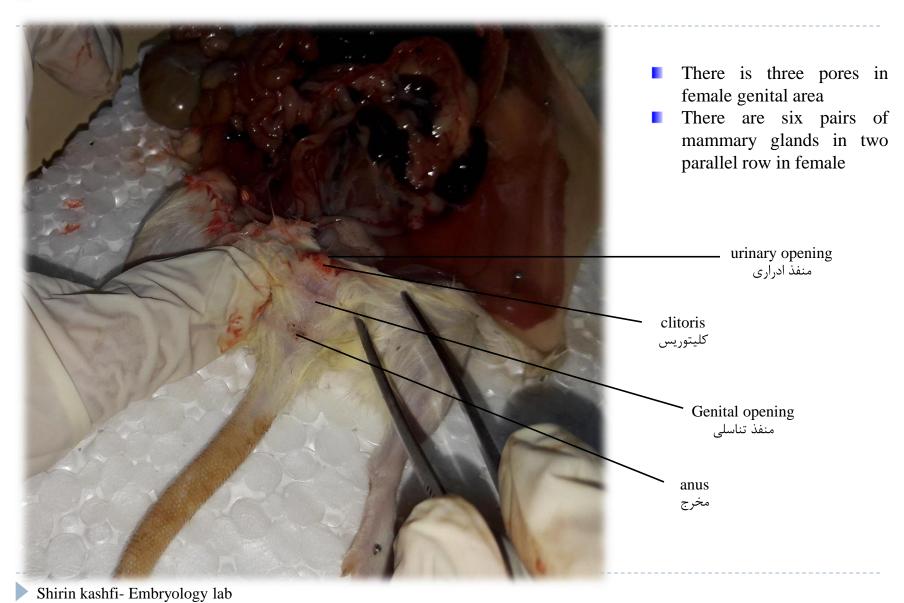
Faculty of Biological Science and Technology Zoology and Botanic Department Practical Embryology

Rat Genital System Dissection

By: Shirin Kashfi
Ph.D in Animal Development
Sh.kashfi@staf.ui.ac.ir



How to recognize female from male rats?





How to recognize female from male rats?

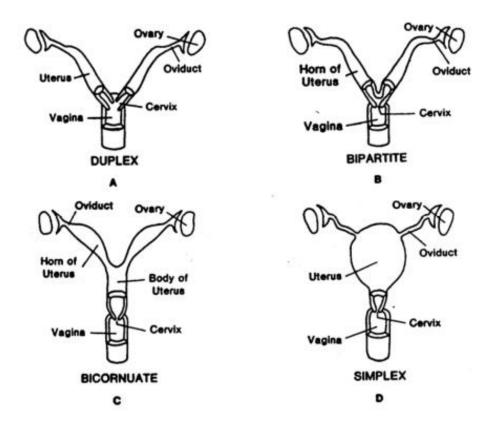




- Genital system in female rats consist of
 - Paired ovaries
 - Paired oviducts
 - Uterus
- Rodents (e.g. Mouse, rats) and Logomorpha (e.g. rabbit) has the most primitive uterus known as **duplex uterus**
- Duplex uterus comprises two uterine horns with join together and open to vagina through two separate cervices



Types of uteri in eutherian mammals

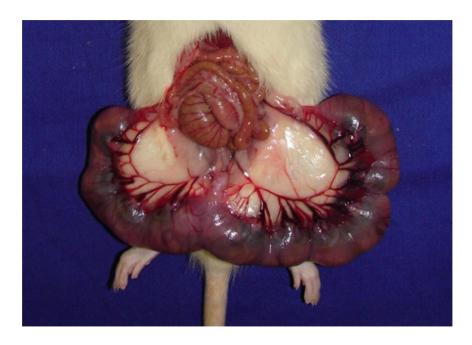


From: www.afrc.uamont.edu



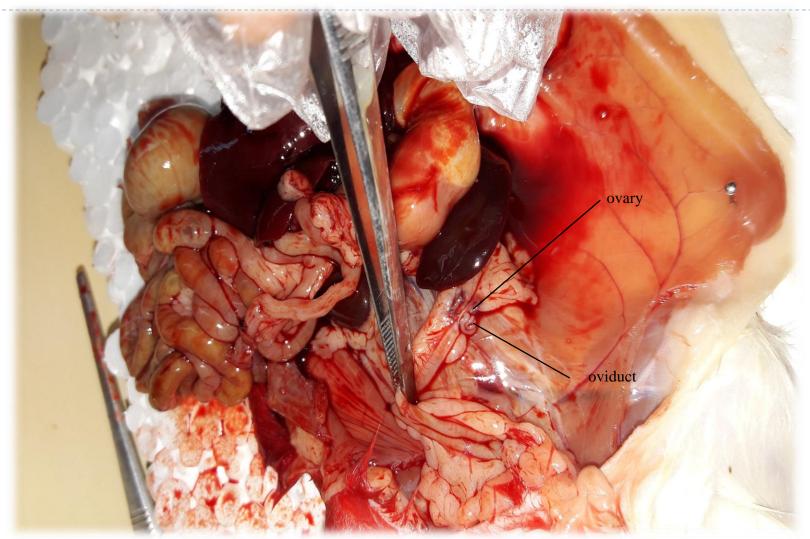
Quiz time!

What is the advantage of duplex uteri?

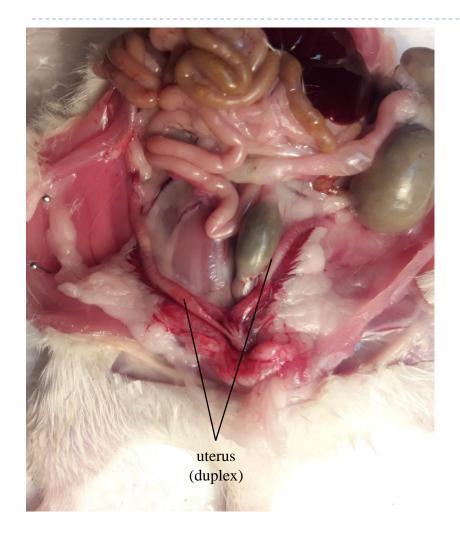


From: Figueiro-Filho et al., 2014













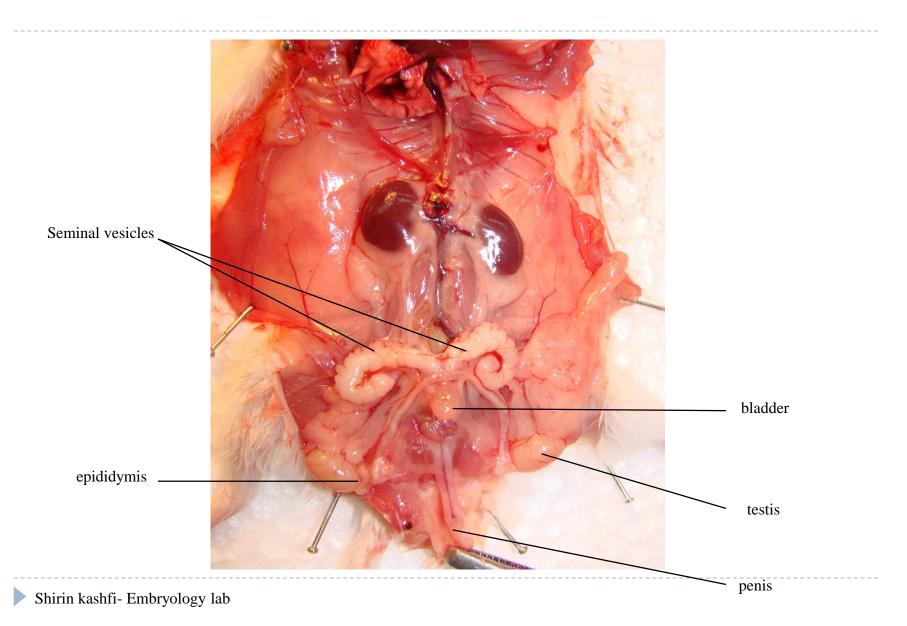
- Genital system in male rats consist of
 - Paired testes
 - Ducts (epididymis. Vas deffereans, ejaculatory ducts, urethera)
 - Glands (seminal vesicle, coagulating glands, prostate, bulbouretheral)
- Seminal vesicle secretes froctose, prostaglandins, ascorbic acid, proteolytic enzyme, zinc
- Prostate secretes proteolytic enzyme, zinc, antibacterial substance, glicoprotein



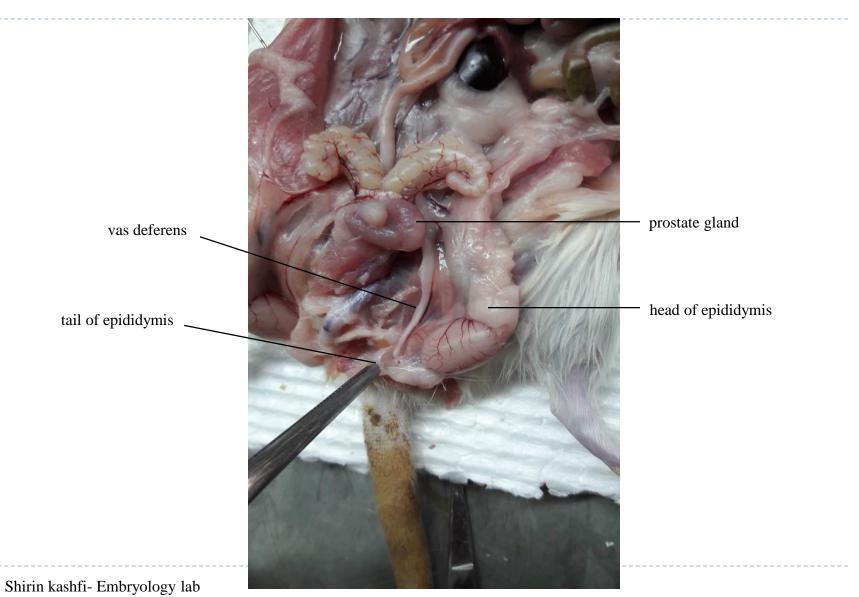


Testes protect in scrotum













coagulating gland







Quiz time!

Name these parts

