

## EXPERIMENT 2

**Study and identify the transverse section of testes and ovary through permanent slides:**

**Aim:** To study and identify the transverse section of testes and ovary through permanent slides.

**Requirements:** Permanent slides of transverse section of Testes and ovary, microscope

**Observation:**

### T.S of Mammalian Testes

The mammalian testes are covered with a thick fibrous tissue called tunica albuginea

The testes consist of a many seminiferous tubules embedded in the interstitial tissues.

Various types of cells are present from outside towards the lumen in the following order:-

Spermatogonia( $2n$ ) ———> Spermatocytes ( ) ———> Spermatids ———> Spermatozoa( $n$ )  
i.e. sperms

Between the germinal cells, pyramidal shaped cells called Sertoli cells are present

A large number of sperms have their head embedded in the Sertoli cells.

The interstitial tissue has Leydig cells which produce testosterone.

### T.S. of Mammalian Ovary

A mammalian ovary is a solid structure bounded germinal epithelium followed by a thick layer of fibrous tissue called tunica albuginea.

The ovary consists of the outer cortex and inner medulla.

The medulla consists many rounded or oval bodies called ovarian follicles at various stages of development.

The development of follicle is as follows:-

$1^0$  follicle ———>  $2^0$  follicle ———>  $3^0$  follicle ———> Graffian follicle ———> corpus luteum

The cortex contains round and mature follicles along with corpus luteum.

**Precaution:**

Handle the microscope with care.

Use fine adjustment for better focus.