

## GAMETOGENESIS

**INTRODUCTION :-** In the multicellular animals especially vertebrates, two different kinds of gametes are found to facilitate the continuity of race. These two gametes are sperms, the male gametes produced in the testis and, ovum, the female gamete produced in the ovary. Both these gametes are different in their structure as well as motility. The process of formation of gametes is known as gametogenesis.

The processes involved in the formation of sperm are together named as spermatogenesis and in case of ovum are named as oogenesis.

### SPERMATOGENESIS :-

The formation of sperm in animal is very complicated process and takes place in two stages. The first stage include the formation of spermatide by meiosis and the second stage include the metamorphosis of spermatide into spermatozoa. The process of formation of spermatide comprise the morphological and cytological changes in the meiotic products. It is called spermiogenesis. Sperms are always produced in the seminiferous tubules of the testes of the male animal. The spermatogenesis occurs in two stages.

- (i) Formation of spermatide.
- (ii) Metamorphosis of spermatide.

**FORMATION OF SPERMATIDS:-** The spermatide always formed from spermatogonial cells of testes. The cells are diploid in the number of chromosomes. The whole process of spermatide formation takes place in three stages.