

Dr. Rajesh Verma, Assistant professor and Head, U.G. Department of Zoology, D.K. College Dumraon (Buxar).
Notes for B.Sc part 3rd paper V.

Q. :- Write notes on GONADS ?

Ans:- A gonad, sex gland, or reproductive gland is a mixed gland that produces the gametes (sex cells) and sex hormones of an organism. In the female of the species the reproductive cells are the egg cell, and in the male the reproductive cells are the sperm. The male gonad, the testicle, produces sperm in the form of spermatozoa. The female gonad, the ovary, produces egg cells. Both of these gametes are haploid cells.

Identifiers

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Regulation :-

The gonads are controlled by luteinizing hormone and follicle-stimulating hormone, produced and secreted by gonadotrophs or gonadotrophins in the anterior pituitary gland. This secretion is regulated by gonadotropin-releasing hormone, produced in the hypothalamus.

Development :-

Gonads start developing as a mesonephros (an organ in the earliest stage of development), in the form of gonadal ridges, and only later are differentiated to male or female sex organs. The presence of the SRY gene, located on the Y chromosome and encoding the testis determining factor, determines male sexual differentiation. In the absence of the SRY gene from the Y

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Page no. :- 09

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Chromasome, the female sex (ovaries instead of testes) will develop. the development of the gonads is a part of the development of the urinary and reproductive organs.

see also :-

- Gonadosomatic Index
- Hypothalamic - pituitary - gonadal axis