

Mystus vittatus and *Clarias batrachus*, Singh and Sathyanesan¹⁰ observed that middle glandular region exhibits seasonal variations which are correlated with gonadal cycle. Robertson and Wexler⁷⁻⁸ observed that the pituitary of trout or of several species of Pacific Salmon with infantile gonads is characterised by the predominance of acidophils, very few basophils and many undifferentiated cells. With the development of gonads, the dorsal lobe increases in relative size, undifferentiated cells disappear and basophils increase until at full sexual maturity, it outnumbers the acidophils. Sahai¹¹ illustrated curves for both acidophils and basophils in *Ambassis*, *Puntius* and *Roh-tee*, that indicate a clear seasonal change in their size. Moitra and Sarkar⁹ observed that in the proximal pars distalis the acidophils predominate during restitution phase of the gonads while the cynophils predominate during breeding season. In the present study also, a direct relationship of the structure of the pituitary with the gonadal cycle *vis-a-vis* the breeding cycle has been established.

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For details please contact: Dr. B. B. Bansal, Department of Mechanical Engineering, Institute of Technology, Banaras Hindu University, Varanasi 221 005.
