

Seminar

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Role Of Gonadotropin in Fish Breeding

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Zoology

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Breeding Of Fish

- Defination :- Spawning in Fishes Induced Some artificial Breeding Stimuli.

Artificial Breeding by Stripping Method

- Eggs of certain Species of carps can be artificially fertilized by Stripping.

It involves two methods

1. Dry Method
2. Wet Method

Dry & Wet Bundh Breeding

● Dry Bundh Breeding:-

A Dry Bundh is a Seasonal shallow pond enclosed by earthen wall known as 'Embankment'.

● Wet Bundh Breeding:-

A wet bundh is perenial pond specially constructed for fish breeding.

Role of Gonadotropin in fish breeding

- The gonadotropin hormone secreted by hypophysis influenced the maturation of gonad & spawning in fishes.

- Extraction of Pituitary Gland From Freshly killed fishes
- Preparation of pituitary extract
- Injection Technique

Female:-

Provacative Dose = 2-3 mg/kg body weight

Resolving Dose = 5-8 mg/kg body weight

Male:-

Single Dose = 2-3 mg/kg body weight

Selection of Breeders

● Ripe & Healthy Breeders :-

Years 2 to 4 years of age

● Weight :-

1 to 5 kg

Factors Influencing for Breeding in Carps

- Heavy Mansoon
- Fast water current
- Light
- Temperature:- 24 C – 32 C
- High Dissolve oxygen
- Optimum pH :- 7.4 - 8.5

Advantages

- By inducing the fish to spawn separately in pond, the danger of fish seed getting mixed with undesirable & predaceous fish spawn is overcome.
- Induced breeding technique is certainly profitable venture.

Reference

● Introduction of fishes

Prof. S.S. Khanna

● Fish & Fishery

Prof. K. Pandey

Dr. J. P. Shukla



THANKS