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HORMONE INDUCED SPAWNING IN FISH

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. ABSTARCT : Commercially important tropical freshwater and marine fishes are spawned with pituitary homogenate , human chorionic gonadotropin (HCG) and semi purified fish gonadotropin .

Many fish spawn in environments that are nearly impossible to stimulate in hatchery . Hormone induced spawning is the only reliable method to induce reproduction in fishes . Luteinizing hormone releasing hormone (LHRHa) are widely used for inducing ovulation . For marine species such as milkfish , a single LHRHa injection appears to be affected .

The hormone secreted by pituitary gland stimulates growth development, maturity and Ovulation of eggs . These hormone secreted from pituitary are proteins or peptides

KEY WORDS : LHRHa , Dopamine blockers , GtH , Ovaprim , Des –GLY, [D-Ala]- LH – RH Ethyl amide, Haloperidol { 4-[4-(4-chlorophenyl)- 4 –hydroxy –piperidino] -4- fluorobutyrophenone }

INTRODUCTION :

There are more than 80 species of freshwater and marine fish cultured in Asia . Overfishing , pollution and various human activities have caused the destruction of natural spawning .

The major problem in cultivating the major carps and Chinese carps is the non availability of seeds because they do not breed in confined water . They breed in flooded rivers during monsoon. Most of the physiological process involved in the hormonal control of fish reproduction . Hormone induced spawning of fish has been used for almost 60 years .

MATERIALS AND METHODS :

Induction of spawning using hormones provide a direct control over the final stages of the reproductive cycle in teleosts as in other vertebrates are controlled by several interacting factors . Many hormones play important roles in induced breeding of fish . They are as follows