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Impact of 17α - Hydroxy-Progesterone and Eyestalk Ablation on Ovarian Maturation in Relation to Protein Changes in the Ovary and Hepatopancreas in Freshwater Crab, *Barytelphusa cunicularis*

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ABSTRACT

The present work was planned to determine the effect of 17α -hydroxy progesterone hormone and eyestalk ablation on ovarian maturation in relation to protein changes in the ovary and hepatopancreas of freshwater crab, *Barytelphusa cunicularis*. The studies showed that, administration of 17α -hydroxy progesterone hormone indicated considerable changes in protein content during ovarian maturation over base control and experimental control crabs. In the present examination eyestalk ablation showed increase in ovarian maturation over base control, experimental control and hormone treated crabs by elevating the mobilization of biochemical constituent(s) from hepatopancreas to the ovary. Moreover, eyestalk ablation method found more significant than hormone injected which may be used for enhancement of crustacean culture.

KEY WORDS: BARYTELPHUSA CUNICULARIS, OVARIAN MATURATION, PROTEIN, 17α -HYDROXY PROGESTERONE

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