

# STUDIES ON SOME ASPECTS OF HORMONAL REGULATION ON NUTRITIONAL ENERGETICS IN A FRESH WATER FISH, CHANNA PUNCTATUS (BLOCH).

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July 1, 2020 · VOLUME 19 – ISSUE 1

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Kumari J. STUDIES ON SOME ASPECTS OF HORMONAL REGULATION ON NUTRITIONAL ENERGETICS IN A FRESH WATER FISH, CHANNA PUNCTATUS (BLOCH).: <http://anveshika.org/proceedings-of-the-zoological-society-of-india/wp-content/uploads/sites/2/2020/06/19-JUNE-2020.pdf>. Proceedings of the Zoological Society of India. 2020 Jul 1 [last modified: 2020 Jul 9]. Edition 1.

## Abstract

The present work is an endeavour to study some aspects of hormonal regulation on nutritional energetics in a fresh water snake headed murrel fish, *Channa punctatus* (Bloch). Effect of L-thyroxine, triiodo-throxine, 17 $\alpha$  or p -Methyl testosterone and growth hormones were studied on food consumption rate, feeding efficiency, conversion ratio, growth and as a whole on bioenergetics in a freshwater fish? *Channa punctatus* (Bloch). These hormones served as an appetite stimulant and consequently both feeding and growth rate increased. The best performance was observed after the injection of 17  $\alpha$  or p – Methyl testosterone. The reason for such changes has been discussed in this paper.

## Key Words

Hormones, Food consumption, Fish growth, Bioenergetics

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