

STATISTICAL RELEATIONSHIP BETWEEN CYCLIC CHANGES IN BLOOD INDICES VS. OXYGEN CONSUMPTION IN A FRESH WATER TELEOSTEAN FISH, CHANNA PUNCTATUS (BLOCH)

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Abstract

In the present work an attempt has been made to study the correlation, if any, between the cyclicchanges in VO₂ and different haematological parameters in an air breathing fish, *Channa punctatus* (Bloch). Two peaks of activity were marked in both the parameters. A positive correlation occurs between RBC/VO₂, Hb/VO₂ and PCV/VO₂ in both the sexes. The increase in VO₂ seems to be more associated with the increase in RBC count than with the increase in Hb content and PCV. Cyclic changes in VO₂ and different blood parameters show parallelism and a physiological balance exists between these two parameters.

Key Words

Fish, Blood, Oxygen uptake, Statistical relationship.

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