

## STUDIES ON SERUM CHOLESTEROL LEVELS OF SOME FRESHWATER FISHES OF PILLI RESERVOIR, BIJNOR (U.P.)

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### ABSTRACT

Normal serum cholesterol levels of 20 species of freshwater fishes of Pilli reservoir, have been recorded during the year 2009-2010. Maximum mean value (598.20±62.00/100 ml) was noted in female fish *Rita rita* (160.00±28.00mg/100ml) and while minimum value in male *Botia dario*. In male, serum cholesterol levels were found to be lower than female fishes.

**Key words: Serum Cholesterol, Freshwater Fishes, Pilli Reservoir.**

### REFERENCES

- Chandra, S. 1982 : Serum cholesterol levels of 22 species of freshwater fishes. J. Acad. Ichthyol. 3(1) : 13-16.
- Grant, B.F., Paul, M.M. and Thomas, R.R. 1970 : Serum characteristics of spawning paddle fish. (*Polyodon sparthula*). Comp. Biochemi. Physiol. 37(3) : 321-330.
- Grover, S.P and Rauthan, JVS, 1994 : Seasonal variations in blood glucose, cholesterol, and blood urea levels of three hill stream fishes. Indian J.Nat.Phy.Sci. 14(A) : 21-29.
- Joshi, B.D. 1980. Sex related cyclic variation in blood glucose and cholesterol contents of cat fish *Heteropneustus fossilis* (Bloch). Comp.physiol. Ecol. 5, : 13-16.
- Joshi, B.D. 1982 : Circannual fluctuation in some blood components of the fish *Rita rita* in relation to certain eco-physiological conditions. Uttar Pradesh. J.Zool. 2: 62-66.
- Joshi, B.D. 1985 : On the occurrence of trypanosomes from certain hill stream fishes of Almora and related alterations in some blood values of a fish *Nemacheilus rupicola* (Hora) Uttar Pradesh. J.Zool. 5(2) : 199-203.
- Mccarteny 1967 : Monthly variations of serum total cholesterol and serum total lipid phosphorus of mature brown trout. Fish.Res. Bull. N.Y. 30 : 42-45.
- Mulcaby, M.F. 1970 : Blood values in the pike *Exosluclus* L. J.Fish.Biol. : 2(3) : 203-209.
- Rauthan, JVS and Grover, S.P., 1994 : Effect on some eco-physiological conditions on haematological values of hill stream fish. *Barilius bendelisis* (Ham.). Uttar Pradesh. J.Zool. 14(2): 147-15.
- Rauthan, JVS, Kumar Dinesh and Rauthan Geeta, 2008 : Fish fauna of Pilli reservoir near Rehar town Dhampur (Distt. Bijnor, UP). Aquacult. 9(2): 233-238.
- Rauthan, JVS, Singhla G.D., Rauthan Geeta and Kumar Dinesh, 2009 : A comparative haematological study on a few freshwater fishes of Pilli reservoir. J.Exp. Zool. 12(1): 171-173.
- Siddiqui, A.Q. and Siddiqui, N. (1973) : Effect of asphyxiation on the chemical constituents of blood plasma of *clarius batrachus*. Ind.J.Zool, I : 47-48.
- Tandon, R. S. and Joshi, B.D., 1974 : Seasonal variations in blood glucose and serum levels of freshwater fishes. I. *Clarius batrachus*. Zeitsch.Tierphysiol.Tiernoh.Fulter 33(2): 108-112.
- Tandon, R.S. 1986 : Biochemical changes in fish *Wallago attu* infected with trypanosomes. Indian J.parasitology 10(2) : 87-91.