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Impact of endosulfan on physiology of fresh-water fish *Channa punctatus*

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An extensive study was conducted to note the impact of endosulfan on various physiological parameters of the fish, *C. punctatus*. Initially a survey of water bodies around Jaipur was conducted to assess the levels of endosulfan present under natural conditions. For experimental purposes, doses administered were 15%, 25% and 50% of LC50. Accumulation of endosulfan was determined in muscle, gills and blood along with a study of certain biochemical parameters in muscle and some haematological conditions. These were correlated with histopathological changes in gills. Results were dose and duration dependent. Recovery in the fish was also noted for the above parameters after transferring the fish to fresh water.

Recent Publications

1. Harit G and Srivastava N (2017) Toxicity of endosulfan in *Channa punctatus* (Bloch). Current topics in Toxicology.13:23-30.
2. Harit G and Srivastava N (2017) Changes in gill structure induced by uptake of endosulfan in *Channa punctatus* followed by subsequent recovery. Asian Journal of Applied Science and Technology 1(7):60-64.
3. Srivastava N, Harit G and Srivastava R (2009) A study of physico-chemical characteristics of lakes around Jaipur, India. International Journal of Environmental Biology 30: 889-894.
4. Harit G and Srivastava N. (2009) Bioaccumulation & elimination of endosulfan in muscle, gills and blood of *Channa punctatus*. Journal of Environment and Sociobiology. 6:13-20.

Biography

Neera Srivastava is an Alumnus of the Department of Zoology, University of Rajasthan, Jaipur. She has been associated with teaching and research in the field of Fish Biology for more than 44 years. She has more than 50 research publications to her credit along with several popular articles and chapters in various books related to the subject. She has attended more than 30 National and International Conferences. She has been a resource person in more than a dozen seminars and refresher courses at the University, college teachers and has chaired sessions in several of them. She has also been invited as a Guest Speaker. She has been associated with undergraduate and postgraduate teaching assignments at the University of Rajasthan since 1973 and continues as a guest faculty.

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