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APPLICATION OF ELECTROPHORETIC ANALYSIS OF MUSCLE MYOGENS TO TAXONOMIC STUDIES OF DIFFERENT SPECIES OF GENARA *CIRRHINUS* AND *LABEO*

Pratibha, Seema Jain and W.S. Lakra*

[1]Department of Zoology, R.G. College Meerut - 250 001, India.
National Bureau of Fish Genetic Resources, Dilkusha, Lucknow - 226 002, India

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ABSTRACT – The present paper reports muscle myogen patterns of four species of cyprinids viz. *Cirrhinus reba, Cirrhinus mrigala, Labeo gonius and Labeo rohita* collected from different water bodies of Meerut, using vertical slab polyacrylamide gel electrophoresis. A comparative study of the separation pattern of protein bands were studied and analysed using NT-SYS PC software. The band patterns of the four species studied show interspecific variations and also reveal phylogenetic position. The study reveals that protein fractions of various species can be used as species specific marker which can resolve confusions or taxonomic ambiguity.

Keywords : Biochemical systematics, muscle myogen, species protein.