

# Genetic-Biochemical Identification of *R. rutilus* (LINNAEUS, 1758) and *R. frisii* (NORDMAN, 1840), (Pisces: Cyprinidae) in Bulgaria

*Petya P. Ivanova*

Institute of Fishing Resources, Primorski Blvd., 4, P.O. Box. 72, 9000 Varna, Bulgaria, e-mail: pavl\_petya@yahoo.com

**Abstract:** A comparison between common roach (*Rutilus rutilus*, LINNAEUS, 1758) and pearl roach (*R. frisii*, NORDMAN, 1840) from some Bulgarian rivers was carried out on the basis of electrophoretical analyses. 27 loci were examined and genetic markers for identification of these two species were found. The genetic distance between the populations analyzed is 0.730, which is an evidence that they belong to two different species from one genus.

**Key words:** roach, electrophoresis, isoelectric focusing, genetic markers