



CLINICAL, HEMATOLOGICAL AND MORPHOLOGICAL STUDIES ON EX SITU INDUCED COPPER INT OXICATION IN CRUCIAN CARP (CARASSIUS GIBELIO)

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The influence of increasing concentrations of copper sulphate (CuSO4.5H2O) on Crucian carp (Carassius gibelio) was investigated. T he clinical signs, the morphologic changes in the spleen and gills, and the alterations in red blood cells were analyzed. The concentrations test ed were respectively 0.1, 0.5, 1.0 and 2.0 mg.l-1. Various clinical symptoms were observed resulting from damaged oxygen transport, hemo rrhages being the most frequent. Also, different concentrations of copper caused three various types of anemia. Pathological alterations caus ed by compensatory reactions refer to the adaptation of Carassius gibelio to the hypoxia, caused by the pathologic changes in gills and the an emia that occurred.

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