Use Some Of Biochemical Parameters And Histological Changes For Liver And Gills in *Silurus triosegus* fish As Biomarker For Aquatic Pollution in some stations on Shatt – Al Arab River

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ABSTRACT

Study some of biochemical and histological alteration in fish as biomarker for aquatic pollution by industrial and human discharge. fish were coughed from different stations represent of Al-Hartha station (1), Al-Najepea station (2) and Abo- Alkasbe station (3) as well as control station located north of Shatt Al- Arab river (4) is low contamination.

Fish of stations (1, 2 and 3) located near directly effect for industrial and human pollution and appeared of alteration of chloride cells respiratory diffusion distance in gills, also, recorded the decrease of glycogen, protein and lipid of liver compare with control. as well as showed histological changes in gill and liver represent by hyperplasia, bleeding, necrosis, inflammation, fibrosis and degeneration compare with (4) station.