

NON - SPECIFIC IMMUNE RESPONSE IN INDIAN MAJOR CARP, CATLA CATLA AGAINST AEROMONAS HYDROPHILA INFECTION

Catla catla are challenged with sub-lethal doses of *Aeromonas hydrophila* to study immune responses. Hepatic morphology characterized by light microscopy showed granulomatous inflammation, necrosis leading to disruption of hepatic cords. Significant ($P < 0.05$) difference of Condition factor, Hepatosomatic index, Catalase and Super oxide dismutase activity has been observed. Duplex PCR was done with DNA isolated from presumptive *Aeromonas hydrophila* to identify the bacterial strain. This work presents an insight into immune response in juxtaposition with the identification of potential Fish biomarkers.

Keywords : *Catla catla*, *Aeromonas hydrophila*, Antioxidant enzymes, Gross indices, Histopathology.
