

Sewage Induced Behavioural Responses in an Air-Breathing Fish, *Pangasius pangasius*

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Abstract : Domestic sewage poses major threats to the aquatic environment in third world countries due to lack of technical and economic sources which can have significant impacts on fish. The tolerance limits to toxicants found in domestic effluents vary among species and their integrative effects may lead to reproductive failure and reduction of survival and growth of the more sensitive fish species. The mechanism of action of toxic substances upon various concentrations of sewage was taken aiming to evaluate locomotory, physiological, neurological and morbidity response of fish. The rapid biomonitoring assessment technique for qualitative evaluation of various industrial pollutants, behavioral responses of an air-breathing fish *Pangasius pangasius* were used as biomarkers for water quality assessment. The present investigation concluded that sewage is highly toxic to the fish and severely affects their physiology and behavior.

Keywords : air-breathing organs, behavioral, locomotory, morbidity, neurological, physiological, sewage

Conference Title : ICZWA 2017 : International Conference on Zoology and Wild Animals

Conference Location : Paris, France

Conference Dates : November 20-21, 2017