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Biomarkers Responses in Fishes: A tool for Monitoring water quality of the river Nile

By Werner Kloas

Cuvillier Verlag Okt 2012, 2012. Taschenbuch. Condition: Neu. Neuware - One of the most impressive large rivers worldwide is in Egypt the river Nile known since ages for its intense anthropogenic use as well as for increasing pollution along its course from spring to estuary forming presumably a strong gradient of pollutants. Effective management of the river Nile in a manner that supports a sustainable economy and society with sufficient quantity and quality of water is essential. In order to do this, however, improved water quality monitoring is necessary to facilitate resource protection and to understand ecological changes within ecosystems. In past decades, aquatic monitoring programs dealt only with the measurement of physical and chemical variables. Physicochemical analyses alone are insufficient to provide the information about water quality and it is essential to use biological test systems (biomonitoring) with living cells or organisms that provide a general response to the pollutants present in the sample. Biomonitoring takes advantage of the knowledge that chemicals that have entered the organisms leave biomarkers reflecting this exposure. Biomarkers have been proposed as sensitive tools for detecting environmental exposure and adverse effects of toxic anthropogenic chemicals on aquatic organisms. Biomarkers may take many forms -...



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