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Disease hazards of petroleum hydrocarbons contamination in *Gafrarium pectinatum* (Linnaeus, 1758) from Egyptian lake Tamsah

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Assessment of petroleum hydrocarbon (PHC) contamination was carried out along with the water samples of Egyptian Lake Tamsah, Suez Canal. Disease risk probability due to PHC contamination using cytochrome p4501A1 and glutathione S-transferase genes expression by RT-PCR in *Gafrarium pectinatum* bivalve in association with the investigation of parasitic infection were applied. Results indicated 0.85% µg/l petroleum hydrocarbon contamination of Lake Tamsah water. Obvious increase in the cytochrome p4501A1 and glutathione S-transferase mRNA level was observed in response to hydrocarbons contamination. 60% *Marteilia refringens* parasite infection was reported which may be correlated to PHC contamination. This study provides a basis for studying hydrocarbon detoxification processes in marine bivalves, especially *Gafrarium pectinatum*.

Biography

Abumourad I M K is a Professor of Fish Molecular Biology, National Research Centre, Egypt. She has completed her PhD from Menoufia University, Egypt and Post-doctoral studies from Bordeaux 1 University, France and Institute of Hydrobiology-CAS, China. She has published more than 28 papers in reputed journals and has been serving as an Editorial Board Member of reputed journals.

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