

# Accumulation and ultrastructural localisation of lead and cadmium in the cockle *Cerastoderma edule*.

University of Manchester - Retrospective environmental biomonitoring

Description: -

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## **Cloning and characterization of cDNA probes for the analysis of metallothionein gene expression in the Mediterranean bivalves: *Ruditapes decussatus* and *Cerastoderma glaucum***

Simultaneous monitoring of physiological and behavioural activity in aquatic organisms using non-invasive, computer aided techniques.

### **Short**

Journal of Zoology, 232, 397-407. Effect of malathion on the survival and respiration of the Black Sea mussels *Mytilus galloprovincialis* L. Tanguy A, Moraga D 2001 Cloning and characterization of a gene coding for a novel metallothionein in the pacific oyster *Crassostrea gigas* CgMT2 : a case of adaptative response to metal-induced stress? Studies of environmental pollutants on air breathing fish *Ciarias batrachus*, L.

### **Short**

Comparative Biochemistry and Physiology, 69C, 399-402. BRERC species records recorded over 15 years ago. Species specificity and effect of pH on the response of freshwater mussel juveniles to acute copper toxicity.

## **EVALUATION OF TECHNIQUES FOR THE ASSESSMENT OF BIOMARKER RESPONSES IN SELECTED MOLLUSCS AND CRUSTACEANS FOR IN SITU ENVIRONMENTAL ASSESSMENT**

IMAGES and other media featured on this page are each governed by their own and they may or may not be available for reuse. Ladhar-Chaabouni R, Gargouri R, Hamza-Chaffai A 2007 Effect of cadmium on some biomarkers in the clam *Ruditapes decussatus*: metallothionein quantification by using two techniques. Growth *Carcinus maenas* increases its body size by 20-33% per moult Klein Breteler, 1975 and takes about 10 moults to reach 20 mm carapace width CW in its first year, if conditions are favourable Crothers, 1967.

### **Pollutant**

Rapid toxicity assessment and biomonitoring of marine contaminants - exploiting the potential of rapid biomarker assays and microscale toxicity

tests. Fluorescent verapamil derivative for monitoring activity of the multidrug transporter.

### **MarLIN**

Changes in nutrient levels Tolerant Not relevant Not sensitive Moderate *Carcinus maenas* is probably tolerant of nutrient input as it is tolerant of hypoxia that is often associated with organic enrichment.

### **Pollutant**

Predation rate is dependent on prey density Walton et al.

### **Biological availability of sediment**

Confounding factors, such as variability and operator bias, are discussed. Physiological background for using freshwater mussels in monitoring copper and lead pollution. Marine Pollution Bulletin, in press.

## Related Books

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