

## **Elemental analysis of marine invertebrates by PIXE I. Shellfish**

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### **Abstract**

It is well known that marine invertebrates accumulate specific elements from sea water, sediments and food. Concentration levels of elements were determined in Giant crabs and Rock oysters in Japan in order to evaluate the levels of specific accumulation of elements among species and organs by PIXE. Tissue samples were prepared from gill, kidney, byssus, posterior adductor muscle, posterior pedal tetractor of Giant crabs and gill, mantle, muscle, hepatopancreas of Rock oysters. In kidneys of Giant crabs high concentration of Mn, Fe, Co, Ni, Zn, As, Se and Sr were found.