

*Saccosterea cucullata*

*Pinctada radiata*

Berman 1995 , Method )

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*Saccosterea cucullata*

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*Pinctada radiata*

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(Abbasmaili sari@yahoo.com)

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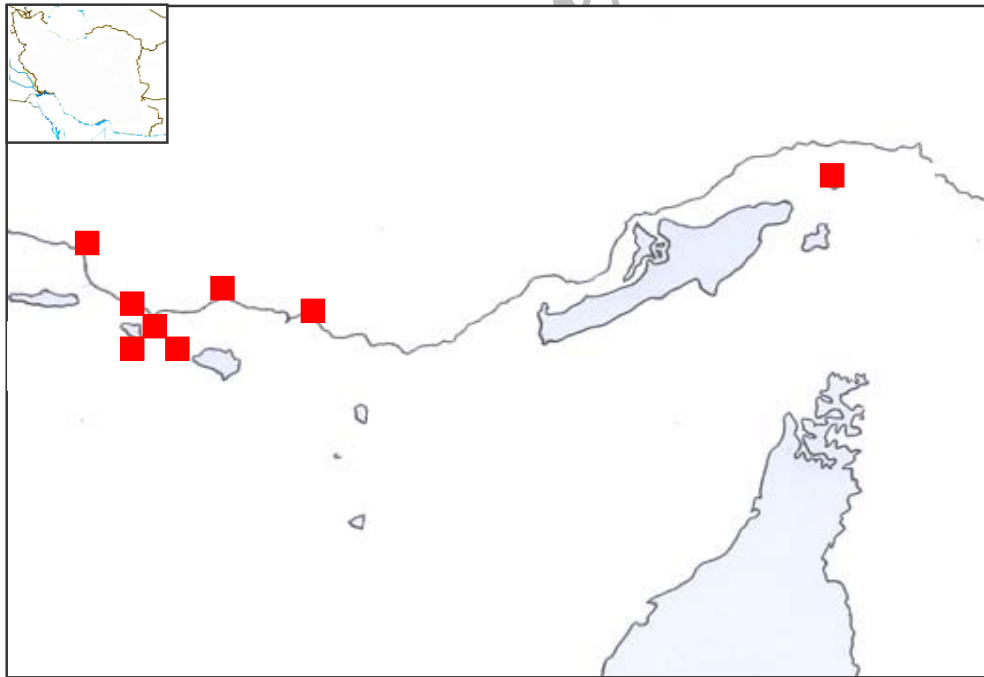
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(Berman 1995,Method7000)



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		/	Snail	
Anderson, 1995		/	Rock oyster	
A.H. Bu-olayan 1996		/	Pearl oyster	
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Martin. et al 1998-99		/	Rock oyster	
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(*astakus leptodactylus*)

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. *Pinctada*

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# Determination and ratio Nickel to Vanadium from Oil Pollution in *Pinctada radiata* and *Saccostrea cucullata* in Coastal of Hormozgan Province

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## Abstract:

According to importance of exploitation of Persian Gulf, transferring of fuel Oil, and also the political events of the region, consistently alagre amount of Oil pollution entrance to water ecosystem and sea animals. *V* and *Ni* two important indicator ababout oil pollution which they have bad affect human health, for example sharp sensitiveness.

With attention to studying sampling of *Saccostrea cucullata* from 4 stations in *Hormoz Island* and *Coestal of Hormozgan* and the studying sampling of *Pinctada radiata* from 4 stations in *Hendorabi Island* have been conducted in autumen and winter in1381, after biometrics, evolution of *Saccostrea cucullata* & *Pinctada radiata* the chemical analysis of the samples were done with standard method (Berman 1995, Method 7000) by using intermined with the help of Atomic Absorption Spectropbctometer (A.A.S), Model Philips PU9400 fpr *Ni* and Model Shimadzo G-670 fpr *V*.

Result of the analysis Stated that:

The mean value of *Ni*, *V* in *Saccostrea cucullata* was in order 6/32, 0/77 (ppm) and The mean value of *Ni*, *V* in *Pinctada radiata* was in order 3/44 ,0/76 respectively in muscle and shell, which comparing to the standards, can not be suitable from human use, and in every case the mean of this element are more in shell, rather than muscle.

The result of ratio from *V/Ni* in compare with the same ratio differentin in oil stands can not determined the source recognition the only source of *V* is oil pollution, but for the *Ni* in addition of oil source other elements are available.

There wasn't significant different between weight and size of *Saccostrea cucullata* with their absorption and accumulation of heavy metals. But there was a significant different and positive correlation between *V* content in muscles and shells, also negative correlation between *V* and *Ni* content in muscles. also There wasn't significant different between weight and size of *Pinctada radiata* with their absorption and accumulation of heavy metals But there was a significant different and positive correlation between *V* content in shell and DVM, also negative correlation between *Ni* content in muscles and LH.

**Keywords:** Oil pollution, Heavy metals, *Saccostrea cucullata*, *Pinctada radiate*, Coastal Hormozgan.

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