



## **Salinity Effect on *Saccostrea cucullata* (Born, 1778) Growth Factors in the Persian Gulf**

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### **Abstract:**

An aquaculture activity will be profitable and justifiable when the costs incurred can be reimbursed over a certain period of time. In order to be successful in shortening the growing period of natal rock oyster *Saccostrea Cucullata*, the environmental conditions must be optimized as much as possible. Factors such as temperature, salinity, nutrition, health conditions and tides are the most important factors affecting the growth and survival of this species. In this study, the effect of salinity on the growth factors of *Saccostrea cucullata* has been investigated by keeping other influential factors constant and optimal salinity in environmental conditions of the Persian Gulf and indoor breeding has been studied. The four salinity treatments were 25, 30, 35, and 40 ppt with three replications respectively for 45 days period. The results indicated that different in growth factors at studied salinities were significant. Therefore, it is recommended to modify the salinity of the Persian Gulf by adding fresh water at indoor breeding condition.

**Keywords:** Indoor breeding, salinity, *Saccostrea cucullata*, Persian Gulf