# Echophysiological study of yellowfin sea bream for assessment of cage culture

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## Abstract

Yellowfin sea bream is an economically valuable species that is widely distributed in the Persian Gulf. Between five different types of Mahshahr fish, all male with the same weight (about 200 grams) were caught and its physiological parameters were evaluated. There was a significant difference between the enzymatic indices of ACP activity and activity. The biochemical parameters of total protein had a significant similarity. Hematological indices of MCHC had a relatively similar trend and there was a significant difference between the immunological parameters of leukocyte, neutrophil and lymphocyte. There was a similar trend between testosterone, T3 and T3 / T4 hormonal indices. The enzymes ACP, total protein, MCHC, leukocytes, neutrophils and lymphocytes, testosterone, T3 and T3 / T4 and many indicators of histopathological hepatocytes can be used as a biomarker suitable seabream and worthy life as the perfect place to establish Cage introduced.
**Keywords**: aquaculture, cages, ecophysiological indices, Mahshahr creeks, Persian Gulf