



چهارمین کنفرانس ماهیشناسی ایران، ۳۰-۳۱ تیرماه ۱۳۹۵، دانشگاه فردوسی مشهد The Forth Iranian Conference of Ichthyology, Ferdowsi University of Mashhad, 20-21 July 2016

The use of amino transferase as biomarkers in golden mullet (Liza aurata)

Mahmoudi, F.^{1,*}; Alijanpour, S.²; Jafarian, H.³; Aghilnejad, S.⁴; Jorjani, E.²

¹Masters student, Marine Biology, Gonbad Qabus University, Gonbad, Iran ²Department of Biology, Faculty of sciences, Gonbad Qabus University, Gonbad, Iran ³The Department of Fisheries, Faculty of natural resources, Gonbad Qabus University, Gonbad, Iran ⁴Center for Sturgeon caviar exploitation, Gorgan, Iran *Email: mahmoodif1990@ gmail.com

Hematology parameters indicating metabolism, an indicator of normal or abnormal conditions, ecosystems, health and physiological status of aquatic and indicators to assess aquatic ecosystems are considered in this study. Biomarkers can be used to assess fish health status and to achieve rapid alert mark of applied environmental risks. Enzyme activity can be considered as a sensitive biochemical markers. Aminotransferase liver enzymes are an important class of enzymes where any change in this indicates changes in the structure and function of the liver which in turn is an indicator of liver damage, as proved in diagnosis. The enzyme aspartate aminotransferase in Sturgeon Bay in winter is significantly different with respect to other groups (p<0.05) and ALT levels in winter in both sampling were not significant different (p> 0.05), while no significant difference was observed in autumn.

Keywords: fish, liver enzymes, stress, biomarkers, caspian Sea.

