Histological study of genital gland of Big eye snapper (*Lutjanus lutjanus*) in sought waters of Iran

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Abstract
Big eye snapper is one of the important species of snappers from (Lutjanidae) family. This fish is resident of Persian Gulf and Oman Sea and is edible. Study reproduction in *Lujanus lutjanus* was conducted in the Persian Gulf and Sea of Oman from December 2014 to November 2015. Sampling was conducted at 14 stations using trawl and trap monthly. In this study, the total number of samples was 247, which were 133 females, 97 males and 17 immature and the ratio of female to male was 1.37. Measuring of samples such as length (total, fork) and weight were taken. Minimum and maximum length of fish during different months was between 13 and 26 cm. Reproduction stages were determined in fish gonad samples. Results of female gonad tissue sectioning indicated 6 stages of ovary development in this fish. Monthly average of GSI calculated 1.185. Maximum and Minimum of GSI were 2.304 and 0.474 in June and October 2014 respectively. Size maturity (Lm50) was 17.5 cm. Study of behavioral and biological characteristics of *Lujanus lutjanus* can be used for Proliferation, breeding industry, maintaining, and it's restocking.

Keywords: Sexual glands, *Lutjanus lutjanus*, GSI, Persian Gulf, Oman Sea.