

*Histological assessment of the Ovaries in Long tail carpet shark (*Chiloscyllium arabicum*) from the Persian Gulf*

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The present study is aimed to assess the histomorphological structure of ovaries as a reproduction in Longtail carpet sharks (*Chiloscyllium arabicum*), from the Persian Gulf. In this regard, 30 *C. arabicum* was caught at Hendigan port, located at the northwest of the Persian Gulf. After the fish were anaesthetised, the ovaries were moved to bouins fixative solution for 48 hours. Tissue samples were then processed, using the routine histological methods and 5-6 μm tissue sections were prepared. Then the tissue sections were stained using Hematoxylin-Eosin staining method and studied under a light microscope with dinolite lens. Based on the results, the ovary is an oval-shaped structure which is composed of ovarian follicles, a transparent layer around each follicle, granulosa cells and theca cells. In conclusion, many structural similarities were found in the ovaries between *C. arabicum* and other fish species.

Keywords: Ovaries, *Chiloscyllium arabicum*, Persian gulf.