

عنوان مقاله:

Short communication: A microscopic survey on Epicardial hemangioma-like structure in farmed sturgeon, *Acipenser baerii*

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خلاصه مقاله:

As the main organ of the cardiovascular system, the vertebrate heart has been the focus of a myriad of morphological, functional, and molecular studies. The heart of fishes has not escaped from this stream of interest, and a wealth of information has accumulated on this subject over the past 50 years (Icardo, 2012). The heart of sturgeons is related to that of other ancient fish and the elasmobranchs in that it has a long conus arteriosus endowed with a muscular coat and several rows of conus valves (Icardo et al., 2002). The subepicardium is a thin layer rich in collagen and elastin, fibroblasts, vessels, and nerves (Icardo et al., 2000). Although this constitutes a general description, the subepicardium of the bulbous can be a more complex layer. For instance, it may contain lymphocytes, plasma cells, and dendrite-like cells, and has been implied to be involved in the development of the humoral immune response (Icardo et al., 1999). This is surprising, but it is not an isolated feature in fish. The subepicardium of the sturgeon contains thymus-like tissue (Icardo et al., 2002) which has been implicated in the establishment and the maintenance of the cellular immune responses.

کلمات کلیدی:

Cavernous hemangioma, Epicardium, Sturgeon, *Acipenser baerii*

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