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Histopathological survey of liver and kidney in Oscar (*Astronotus ocellatus*) and Discus (*Sumphysodon discus*)

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Abstract

Histopathology is one of the diagnostic methods in diseases of aquatic animals. This survey was conducted to investigate histopathological lesions of kidney and liver of Discus (*Symphysodon discus*) and Oscar (*Ocellatus astronotus*). The fish transferred to the fisheries laboratory under low-stress condition. Fish were euthanized and tissue samples were collected and fixed in 10% buffered formalin. Then tissue sections were prepared by using routine histological lesions were observed in kidney such as glomerulonephritis, acute tubular necrosis, cell swelling and hyaline cast. Liver showed cellular degeneration, hepatocytes necrosis and pancreatic cell atrophy. It was concluded that glomerulonephritis and cell swelling of renal tubules and hepatocytes degeneration were the most common lesions suggesting poor health conditions.

Keyword: Histopathology, Ornamental fish, Disease, Oscar, Discus