A Histological and Histochemical Study of a Fish Skin: *Katsuwonus Pelamis*

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Abstract

In this study, the skin structure of Skipjack Tuna, *Katsuwonus pelamis*, (SJT) was investigated by using histological and histochemical techniques. For this purpose, five SJT fish skin was obtained and two kind of sectioning methods such as paraffin embedding and frozen microtome were used. Tissue samples were taken from different body locations (dorsum, pelvic cavity, lateral line and near caudal) of each fish skin. The skin samples fixed in Bouin solution for 48 hours were embedded in paraffin and five µm thick vertical sections were stained by Hematoxylin-Eosin and Van Gieson staining techniques. The same techniques were also applied to the second group skin tissues which have been cut by frozen microtome.

Consequently, the structure of *Katsuwonus pelamis* skin especially in terms of elastin and collagen structure was examined and the utilization possibilities of the fish skin could be revealed in leather, agriculture and other industrial activities.

Keywords: *Katsuwonus pelamis*, histological, histochemical, leather