

عنوان مقاله:

(Histological study of pylorus in two month old Caspian Sea beluga (Huso huso Linnaeus, 1758

محل انتشار:

دومین کنفرانس ماهی شناسی ایران (سال: 1393)

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خلاصه مقاله:

Regarding the role of alimentary tract in digestion and absorption of foods in fish and importance of *Huso huso* due to caviar production, this study was carried out on pylorus or non glandular stomach in two month old Beluga with aiming to determine its precise histologic structures. The fish samples were prepared from sturgeon artificial rearing stations in Saari and fixed into 10% formalin. The histological sections with 6 microns were prepared based on routine histological process. The hematoxylin and eosin method was used for staining of sections and studied under light microscope. The results showed that pylorus or gizzard as non glandular stomach has a mucosa lined with non ciliated simple columnar epithelium. Their cytoplasm is highly acidophilic with a dark basophilic nucleus. In lamina propria with loose connective tissue some rare simple tubular glands are appearing in this aged despite of absence of any gastric glands. Smooth muscle fibers as muscularis mucosae differentiate mucosa from submucosa. The submucosa is thin without any glands and the thick musculature in several layers thicker than the other parts, is surrounded with squamous cells externally as serosa. Locating the pylorus in continuation of glandular stomach and the thick musculature more than its digestive role indicates its mechanical role in crushing the foods.

کلمات کلیدی:

Beluga, Pylorus, Histology

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