

Morphological study of the retina of salmon (*Salmo salar*) Estudio morfológico de la retina de salmones (*Salmo salar*)

Pellón Arcaya, Mario

Rojas, Mariana

Yaikin, Pabla

del Sol, Mariano

© 2015, Universidad de la Frontera. All rights reserved. The retina of teleost fish zebrafish, has become an important model for studying neuronal plasticity and neurogenesis. It was further shown that the retina undergoes ontogenetic changes to adapt to different environments during their lifetime. This study aims to describe the ontogenetic development of the retina of juvenile salmon from hatching to the juvenile stage. We worked with 30 salmon divided into three groups of 10. Group I: newly hatched with yolk sac and 18 mm in length. Group II: without yolk sac and 30 mm in length. Group III: 100 mm long. Five fry each group were processed according to the protocol of Hanken & Wassersug to measure dorsoventral and nasal-temporal diameters using the cartilage that protects the eyeball. The remaining five specimens were sectioned with a microtome Microm serially (5 μ m) and processed with technical H-E/Alcian blue. The layers of the retina were measured on a Zeiss optical microscope wit