

# **A study on the biology of *Ompok hypophthalmus* captured in the Siak and Kampar Rivers, Riau**

**By Ridwan Manda Putra and Windarti**

## **Abstract**

*Ompok hypophthalmus* commonly inhabit the Siak and Kampar Rivers in Riau. Water quality in these rivers is different, as Siak River is polluted while Kampar is almost good. As the water quality affects health status of fish in general, a study aims to understand the stomach content analysis, tissue structure and parasite infestations on *O. hypophthalmus* was conducted. Fish samples were captured from both rivers. The stomach content was analysis using a volumetric method, the fish tissue was processed for histological study (formalin fixed, alcohol series processed and HE stained) and parasites present in the fish was noted. Results shown that *O. hypophthalmus* is a carnivorous fish. In the stomach of fish sampled from both areas, there are fishes, insects, insect larvae and frogs. The fish is able to swallow a relatively big prey as its mouth can be opened up to 120°. Histological structure the fish tissue, however, was different. Gill, kidney and liver tissue of the Kampar fish were normal, but those of the Siak's River shown abnormality symptoms such as hyperplasia, hypertrophy, necrosis, fused lamellae and hemorrhage in the gill lamellae. In the kidney and liver tissues, there are hemorrhage, mineralization, cell degeneration and edema. There is no external parasite present in all fish sampled. The parasite mainly present in the gill, there are *Dactylogyrus* sp, *Ichtyophthirius* sp and protozoan cysts. Based on data obtained it can be concluded that the feeding habit of fish from both areas are not different, but the health status of fish from the Siak River is worse than that of the Kampar River.

**Key words:** *Ompok hypophthalmus*, feeding habit, parasite, tissue structure, Riau

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3. Ketua Peneliti: Ahmad Fadli, ST, MT  
Judul : Ekstrak Daun Gambir sebagai Inhibitor Korosi

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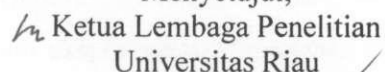
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