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Faculty : Science

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Degree : Ph.D.

Title of Thesis: Morphological and Molecular Biological Studies on Some Myxozoan and Microsporidian Parasites Infecting Fishes in Egypt and Host-Parasite Relationship

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Abstract :

The present study aimed to investigate some of the myxosporidian and microsporidian parasites infecting three of the economically important marine fishes of the Red Sea (*Saurida tumbil*, *Pagrus pagrus* and *Epinephelus chlorostigma*) collected from fisherman at boat landing sites of Suez & Hurghada cities at the Gulf of Suez & Red Sea, respectively; and one freshwater fish (*Clarias gariepinus*) was collected from the River Nile at Giza Governorate in Egypt. The examined fishes were collected monthly from October 2009 to January 2011. The investigation of parasitic infections was carried out by means of morphologic and morphometric characterization of these parasites. Also, the study described some of the important developmental stages of these parasites inside fish hosts at the ultrastructural level which are considered as key features for their classification. In addition, molecular analyses of 18 SSU rDNA; 16 SSU rDNA and phylogenetic relationships were applied to associate in the taxonomic characterization of myxo- & microsporidian parasites, respectively.

Keywords:

Myxosporidia; Microsporidia; Electron microscopic studies; Histopathological studies; Molecular analysis; Phylogenetic relationships.