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Orientation: Sustainable use of marine resources

Specialization Area: Aquaculture

Research Area: 2.13: Pathology and immunology of organisms in culture



PhD project: Morphopathological study of the interaction between the Freshwater Pearl Mussel and the Atlantic salmon

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Summary: This Ph.D. Thesis arose with the aim to understand and provide solutions for culturing the endangered Freshwater Pearl Mussel during its parasitic stage in the Atlantic salmon. To optimize the production of young mussels and preserve fish health, the morphopathological pattern of glochidiosis was characterized during the early and late stages of glochidiosis and related to the larval development and metamorphosis of *Margaritifera margaritifera*, from glochidium to post-larva. The results here enclosed contribute to a better understanding of the pathogenesis of glochidiosis that may aid to manage the parasitic stage during the culture of freshwater mussels.

