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Nationality: Spanish

Orientation: Sustainable use of marine resources
Specialization Area: Aquaculture
Research Line: 2.11 Biotechnology applied to Aquaculture



PhD project: Application of new production and conservation technologies of the marine microalgae *Tisochrysis lutea* for its use in aquaculture

Supervisors: Dr. Ana Otero (University of Santiago de Compostela)

Summary: Microalgae are the base of the food chain in aquaculture. However, the production of microalgae is still considered the bottleneck for the development of a large number of processes in aquaculture, due to low productivity and high cost of *in situ* production of the necessary microalgae to farmers. In addition to that, despite the widespread use of *Tisochrysis lutea* worldwide, their conditions of large-scale cultivation have not been optimized and there are few products available in the market based on this microalgae. It is necessary to improve *in situ* production and design high quality products based on *Tisochrysis lutea* that can replace *in situ* production. With that goal, my PhD project will try to optimize the industrial production and downstream processes for its use in aquaculture.

