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Orientation: Sustainable use of marine resources
Specialization Area: Management and use of resources, Aquaculture
Research Area: 2.1 Research of resources based on knowledge 2.11 Biotechnology applied to aquaculture



PhD project: Basic education across Europe - An approach by the sea

Supervisors: Dr. Sérgio Paulo Jorge Rodrigues (Universidade de Coimbra)
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Summary: It is important to review the current teaching approach to adapt the knowledge taught in schools and universities to the needs of the market. Therefore, skills must be developed starting in basic education, such as: communication skills, collaborative skills, creativity in solving complex problems, critical and creative thinking, ability to implement solutions and it could be introduced by teaching the exact sciences. The main objective of this research is to deepen the knowledge and understanding of the teaching-learning process, in basic education, throughout Europe and homogenize the profile of the Student, after completing basic education, presenting marine resources as a possibility of entrepreneurship. For this reason, the programming contents taught in the subjects of natural sciences / biology / physical chemistry in basic education throughout Europe will be studied and those that involve fresh or salt water will be selected as the object of study, the human works that depend directly or indirectly on the sea will be identified and the characteristics of the waters of the seas that bathe European countries will be investigated. Finally, proposals will be presented on how to reduce the impact of environmental disasters on the seas and on the sustainable exploitation of marine resources.

