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Orientation: Sustainable Use of Marine Resources  
Specialization Area: Management and Use of Resources  
Research Area: 2.3 Assessment of fish and shellfish resources



**PhD project: Correlation between reproductive and biochemical parameters in common octopus, *Octopus vulgaris*, in Galician waters**

**Supervisor: Dr. Jaime Otero Villar (Marine Research Institute-CSIC)**

**Summary:** The thesis project consists in analyzing the seasonal biochemical composition and reproductive potential of the female common octopus, *Octopus vulgaris*, in Galician waters. For that purpose, first we will determine biochemical parameters (lipids, proteins and glycogen) in four tissues (arm, mantle, digestive gland and ovary) throughout the annual cycle. In second place, for each female, the morphometric parameters and their reproductive potential and macro and microscopic ovarian maturity will be determined. The analysis of biochemical and reproductive parameters, and their correlation, will determine questions such as the variation of the biochemical composition between stages of ovarian development; seasonal variations in energy content approximately between stages of ovarian development, the existence of maternal influences given the energy content and reproductive potential; the energy allocation existencia; potential fecundity and ovarian atresia, among others.

