

<b>ACRONYM:</b> Systbiogen	<b>LOGO:</b>
<b>NAME OF THE RESEARCH GROUP</b>	
Sistemática, Biogeografía, Ecología del comportamiento y evolución	
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<b>Area(s) of science:</b> Animal Biology	

<b>Key words:</b>	Zoology, Malacology, Vertebrates, Comparative morphology, Molecular Biology, Landscape Genetics, Biogeography, Phylogeography, Population dynamics, Biodiversity Management and conservation, metabarcoding, environmental DNA
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**Description (maximum 800 characters)**

Our main scientific interest is focused on the knowledge of (1) the processes that are implicated in the origin and maintenance of the biodiversity, (2) the geographical distribution of the genetic lineages and (3) in the application of these knowledges to the adequate management of Biodiversity. Our research include morphological studies and the use of molecular techniques (environmental DNA, metabarcoding, and transcriptomics) to the study of communitiens, species and populations.

**Research lines (maximum 800 characters)**

- Systematics and molecular phylogenetic studies, to contribute to the knowledge of evolution and speciation processes and to the construction of the Tree of Life.
- Phylogeographic studies, to know how the current distribution of the different genetic lineages.
- The use of phylogenetic and phylogeographic information to delimitate Evolutionary Significant Units (ESUs), susceptible of management action plans.
- Determining the impact of human activities on the current population structure of the species. Study of the effect of restocking activities with domestic specimens, studying the hybridization and introgression processes.
- The development of reliable and unambiguous non-invasive methods to study communities species and populations including eDNA

**Equipment**

Full equipped labotatory for morphological studies (dissection material, stereomicroscopes, microscopes), and for molecular studies (DNA extraction, PCR amplification, electrophoresis, informatic treatments of DNA information)

**Picture of the research group** (insert on the table or send by e-mail)

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