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(Germany)



University
of Stavanger

University of Stavanger
(Norway)



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University of A Coruña
(Spain)



CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

Spanish National Research
Council (Spain)

FUNDING INSTITUTIONS



Federal Ministry
of Education
and Research



The Research Council
of Norway



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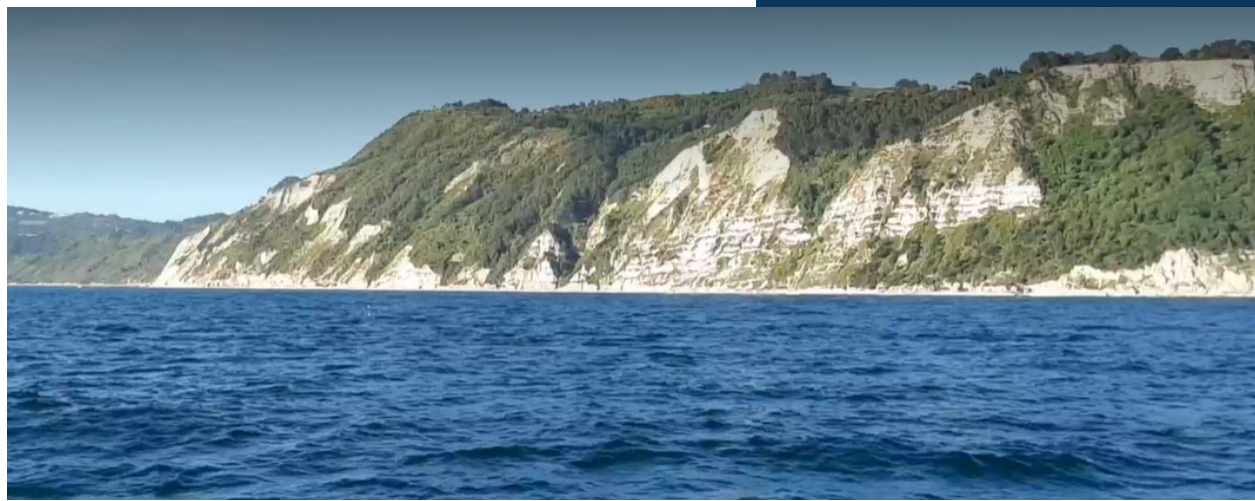
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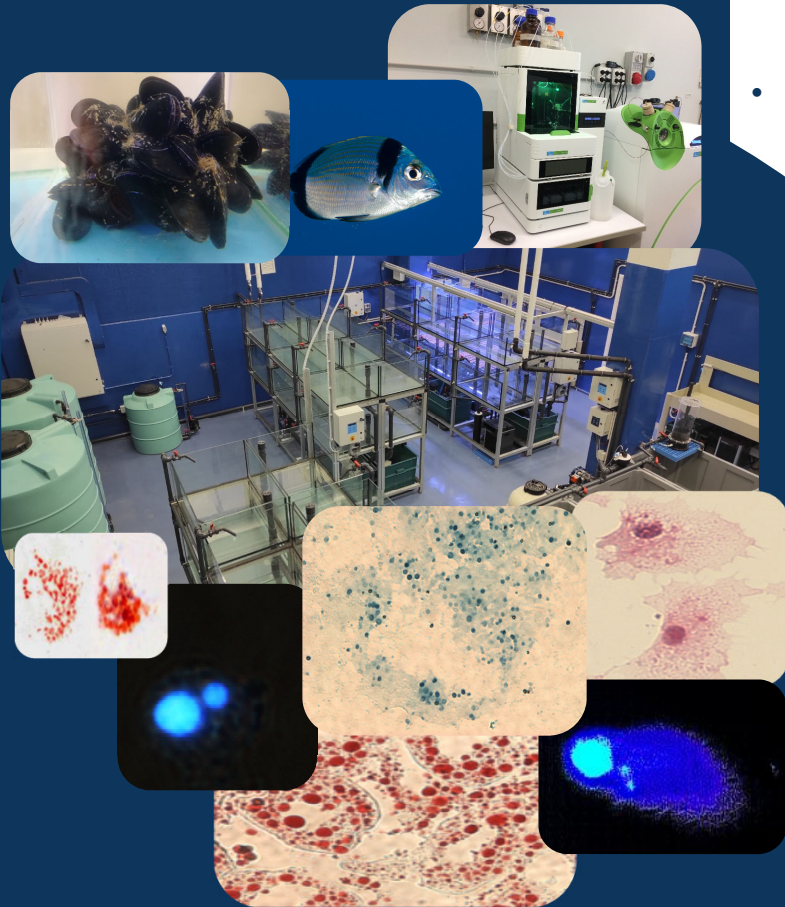
PRESENCE, BEHAVIOR AND RISK ASSESSMENT OF PHARMACEUTICALS IN MARINE ECOSYSTEMS



PHARMASEA

About PharmaSea

PharmaSea integrates international expertise to answer key research questions on fate and biological effects of active pharmaceutical ingredients (APIs), well recognized contaminants of emerging concern (CECs) for marine ecosystems.



Research objectives

- **Qualitative** and **quantitative characterization** of the presence, distribution, fate and behavior of APIs in seawater, sediments and biota
- Evaluation of uptake, **bioaccumulation**, biotransformation and **excretion kinetics** of APIs in aquatic, **non-target model species**
- Mechanisms of action and **ecotoxicological adverse effects** from molecular to organismal level
- Software development for a more comprehensive and site-specific procedure for APIs **Environmental Risk Assessment**

Outcomes and expected impact

- **An enhanced scientific knowledge** on occurrence, fate and effects of APIs in European coastal ecosystems, mapping priorities on a large geographical scale
- APIs **Environmental Risk Assessment**
- **Raise awareness** on the environmental relevance of APIs in aquatic ecosystems
- Promote **participative approach** and **citizens engagement**
- **Influence scientific and societal end-users** such as **public authorities** and **regulatory bodies** relevant to European Directives, European Agencies, **private sector** organizations and **industries** including pharmaceutical societies, WWTPs operators, water supply companies and aquaculture facilities