

Appel à Projet- SEA-EU-search

Présentation succincte des projets retenus, sur l'appel 2023

	Nom du Porteur principal	Laboratoire	Titre du projet	Université partenaire ¹	Thème ²	Sélection
1	Pascal Leroy	LGO	Large-scale sand bodies dynamics and sediment transfer on low-supply continental shelves : the example of the Tarifa Continental shelf	UCA, UAlg	DD	Sept 2023
2	Patrick Le Chevalier	LBCM	Probiotic treatment to enhance growth and gut health in Atlantic salmon	Nord	DD	Sept 2023
3	Gwenhallyn Engélibert	HCTI	Figuring the climate emergency and energy transition in 21st-century Europe (FCEET)	UG, Nord	DD	Sept 2023
4	Florence Menez	AMURE	Being another. Weaving human clam metamorphoses in Italy	UPN	IE	Sept 2023

Pascal Leroy (LGO)

Large-scale sand bodies dynamics and sediment transfer on low-supply continental shelves : the example of the Tarifa Continental shelf

Abstract: Large-scale sand bodies of low-supplied continental shelves have a strong societal resonance for mineral resources, coastal erosion, risk for navigation. The characterization of their origin, evolution and short-term dynamics is a first-order question to understand sedimentary transfer processes at the scale of continental margins and more particularly sediment exchanges between the coastal zone and the shelf. The present project tackles these issues through the example of the southern Atlantic Spanish continental shelf in the Tarifa area. The study area includes a narrow continental shelf which is under the influence of very energetic hydrodynamic conditions linked to storm events, as well as very significant oceanic and tidal currents. The first year of collaboration enabled us to carry out analytical work in this area. The results allowed to characterize for the first time the occurrence of a large sand bank bank extending between water depths of -10 to 90m and covered by large sand dunes fields. In order to better constrain the displacement of sands over the bank and along the shelf, the present project includes complementary hydrodynamic modelling in order to integrate the functioning of these large sandy bedforms into a sediment transfer scheme and to understand the local current patterns in response to different types of forcing (tide, swell, wind, water stratification). It also includes the sampling of the seabed over the sand bank and the associated dune fields. This project is developed in collaboration between UBO, the University of Cadiz and the Algarve university.

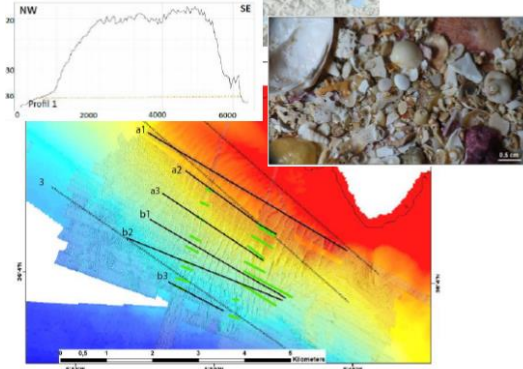


Sea-Eu Project 2023 : Large-scale sand bodies dynamics and sediment transfer on low-supply continental shelves : the example of the Tarifa Continental shelf



Main applicants :

Pascal Le Roy, Maria Luján Martínez, Marina Bolado Penagos, Erwan Garel, Nicolas Le Dantec, Paul Daguinos with the collaboration of Francisco Lobo.



- continuation of the collaboration with the Earth Sciences and Applied Physics Departments of the University of Cadiz and new collaboration with the Centre of Environmental and Marine Science (CIMA, University of Algarve)
- Specific objective : better characterization of short-term sediment routing systems associated with biogenic sand banks over the Tarifa continental shelf
- Methods : hydrodynamic modelling with calculations of seabed sediment transport and seabed sampling.
- Integrated to a PhD project

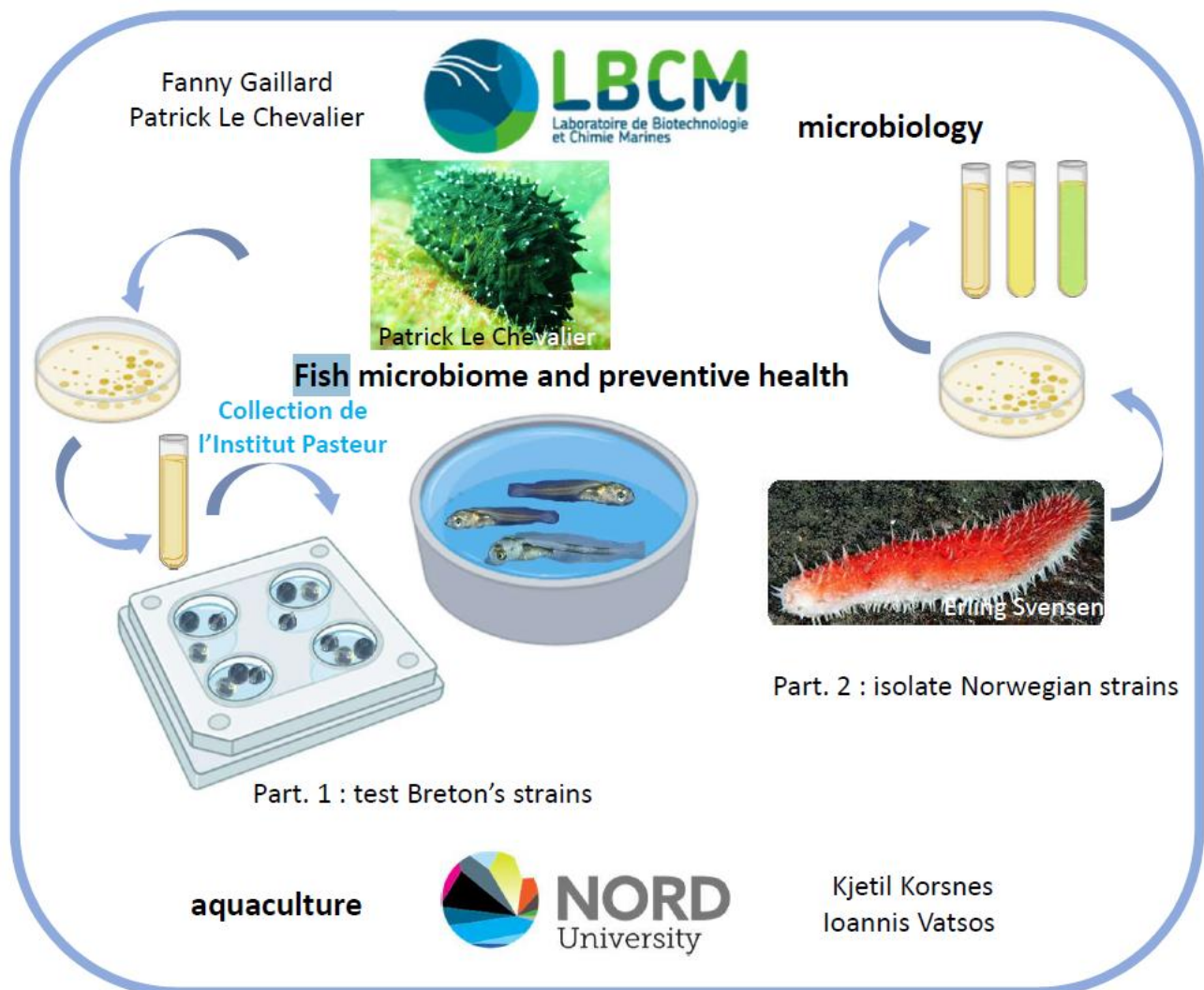
Patrick Le Chevalier

Probiotic treatment to enhance growth and gut health in Atlantic salmon

(UBO, with University of Nord)

In a context of global climate change, we must address the dwindling of natural resources. Aquaculture is one solution, but faces an increase of fish's diseases according to temperatures. An alternative to antibiotics would be the use of probiotics. The aim of the Probiotic SEA-EU project is double :

- Part 1. To evaluate several bacterial strains already isolated and screened in the UBOLBCM's lab from marine organisms, in vivo. These bacterial strains will be evaluated by eggs and juveniles of cods bathing during 8 weeks in the department of Aquatic health and welfare, Bodø. Zootechnical parameters (Survival and growth performance) will be registered.
- Part 2. To isolate new bacterial strains. Isolation of cultivable microbiota from anatomical parts of a Norwegian sea cucumber will be carried out on site. The bacterial strains isolated this way will be investigated in LBCM Quimper. Screening of antibacterial activities and characterization by DNA 16S sequencing will be carried out.



Florence Menez (AMURE, CRBC)

Being another. Weaving human clam metamorphoses in Italy

In addition to its impact on fishing, the introduction of the Philippine clam to Italy in the early 1980s has opened up a conversation where humans and clams are linked by rhizomes interweaving different social backgrounds.

The presence of this non-human creature has changed the lives of many people: from those who live in these salty lands to those who buy or sell on local fish markets from Venice to Naples. Surprisingly, this change in the ecosystem has also turned out to be an unexpected and empowering opportunity for some women.

The specific objectives of the Being another project are:

1) to study the geographical spread of the Philippine clam from Venice to Naples, 40 years after its introduction and 20 years after a first ethnographic study in the Venetian lagoon which focused on the cohabitation dynamics between clams and humans ;

- 2) to create an alternative narrative rooted in the idea of ecological transformation ;
- 3) to share this alternative form of writing in the hope of encouraging discussions during interdisciplinary seminars organised throughout the year in Naples, Florence, Parma and in Brest ;
- 4) to present part of the Being another project as a preview of the RESSAC Festival in 2024.

Being another is a project supported by the UMR AMURE-IUEM in partnership with the Parthenope University of Naples.

BEING ANOTHER

WEAVING METAMORPHOSIS BETWEEN
CLAMS AND HUMANS IN ITALY

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ALTERNATIVE WRITING &
INTERDISCIPLINARY EXCHANGE PROJECT

**An Italian team
in 3 universities**

- **Nadia Breda**, research professor in cultural anthropology, University of Florence
- **Sabrina Tosi Cambini**, research professor in cultural anthropology, University of Parma
- **Roberto Sandulli**, professor of Zoology and Marine Biology, Università di Napoli « Parthenope », partner SEA-EU

Aim of the project

How clams make humans talk ?
How the abundance of clams turned out to be an unexpected and empowering opportunity for some women ?

**A French team at
the University of
Western Brittany**

- **Florence Ménez**, research professor in Anthropology, CRBC
- **Lucie Taïeb**, research professor in literature and writer, HCTI
- **Christèle Dondeyne**, research professor in Sociology, AMURE-IUEM, and member of Maresistome project
- **Gwénaëlle Le Blay**, professor of Microbiology, coordinator of Maresistome project, LEMAR-IUEM
- **Stéphanie Madec**, research professor in Biology, coordinator of Maresistome project, LEMAR-IUEM

Based on ethnographic survey in Italy, from Venice to Naples, and comparisons with the situation in Western Brittany, the construction of this alternative form of writing will give rise to discussions at interdisciplinary seminars organized throughout the year in Brest and Italy.

RESSAC
Festival de REchercheS en Sciences,
Arts & Création

*Part of the Being another project will be shown
during the Festival RESSAC*