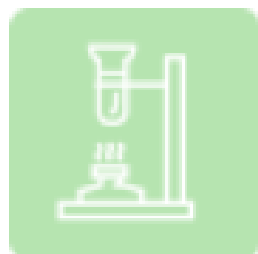


# EMBRC-IT

## Service Catalogue



## EXPERIMENTAL FACILITIES

SUBCATEGORY	INSTITUTE	SERVICE DESCRIPTION	CONTEXTUAL INFORMATION
Aquaria and tanks	CNR-ISP-ME	Tanks available for manipulative experiments on arctic marine invertebrates. Climate controlled room with experimental seawater tanks for maintenance and experiments on marine organisms, microcosms, in Ny-Ålesund (Svalbard, Norway)	Expert knowledge of handling and experimentation on marine organisms.
Aquaria and tanks	CONISMA-UNISALENTO	Aquaria and tanks and lab-controlled system for manipulative experiments on marine invertebrates; Rearing facilities for fish and macroinvertebrates, aquaculture facilities and support to fish rearing	
Aquaria and tanks	ENEA-LS	Access to aquaria (50 L) and tanks (10 L) available for manipulative experiments on coralline algae and calcifying marine invertebrates/ecosystems	Semi closed circular system (mechanic and UV water filtration; total capability approx 1500L) composed by 12 experimental tanks for manipulative experiments (by using single and/or combined variables such as pCO <sub>2</sub> , temperature, lights, oxygen,...) on marine calcifying invertebrates ; Aquaria (50 L) and tanks (10L); Climate controlled room (Thermostatic room for algal culturing and/or short manipulative experiments) available for manipulative experiments on coralline algae and calcifying marine invertebrates/ecosystems; Lab for manipulative experiments on live organisms (tanks and seawater reservoir). Additionally, binocular microscopes for observation on living organisms and sorting or for





			taxonomical studies on recent and fossil dried organisms are available.
Aquaria and tanks	UNICA	Pilot Hatchery for sea urchin and sea cucumber; Life Support System for juveniles/adults sea urchins and sea cucumber; Fish Housing Facility	Biotechnologies (hatchery tanks) and Expertise in rearing larval stage of sea urchins and sea cucumbers (Paracentrotus lividus, Holothuria tubulosa), including food-web production. Fish aquaria comply all the requirements of Legislative Decree 26/2014 on animals welfare
Aquaria and tanks	UNIVPM-DISVA	Access to aquarium facilities for aquatic organisms maintenance and experiments under controlled conditions and multiple stressors on target species. Specialized aquaria for Mediterranean, Tropical (including sea anemones, stony corals, and soft corals) and Polar marine species are available.	Overall ca. 200 mesocosms and aquaria for a total volume of 25.000L subdivided for a) Mediterranean species, b) tropical species (including sea anemones, stony corals and soft corals); Target species for farming and maintenance: phytoplankton and zooplankton (Rotifers, Artemia salina, harpacticoid and calanoid copepods), Zebrafish; scientific staff for the reproduction and maintenance of species, set-up of manipulation experiments and general monitoring/functioning of the facility. Dedicated mesocosms and aquaria for polar species; scientific staff for the reproduction and maintenance of species, set-up of manipulation experiments under different climate scenarios and general monitoring/functioning of the facility
Climate controlled rooms	CNR-ISP-ME	Access to Facility for controlled microorganisms' cultivation, including incubator vessels at high pressure, environmental remediation technologies testing (e.g. bioremediation and sediment remediation), laboratory for cultivation of aerobic microbial communities, screening of bacterial isolates for their antibiotic susceptibility and enzymatic profiles, plastic-associated microbiota (plastisphere) structural and functional characterization.	Laboratory for cultivation of aerobic microbial communities, screening of bacterial isolates for their antibiotic susceptibility and enzymatic profiles; plastic-associated microbiota (plastisphere) structural and functional characterization at ISP Messina. Suitable for incubation under pressure of up to 50 Mpa; Experimentation of technologies for confinement and oxygenation of sediment to accelerate natural biodegradation processes
Mesocosms	UNITO	Marine seagrass systems	Study of the main descriptors and micromolluscs community associated
Mesocosms	UNITUS	Laboratory of ethological studies	2 oval tanks m 6x2x1 with counter current swimming system for ethological studies; 12 tanks 60 l each, fully equipped, may work as single or fractioned units (1, 3, 6, 12). Ethovision system to study individual behaviour and social interactions in marine animals (crustaceans, cephalopods, fish)



Wet laboratories	CNR-IAS-O	Laboratories dedicated to ecophysiological and behavioural studies with marine fishes and invertebrates. Anoxic and temperature controlled conditions can be provided.	Strong expertise in the design of ecophysiological and behavioural experimentation with marine fishes and invertebrates is provided for the use of local experimental facilities. Contextually, the video footage recorded with high-speed cameras in the lab can be analysed (i.e., video tracking) with specific commercial software. Contextual access to microscope laboratory with stereomicroscope for macrofauna and zooplankton observation.
Wet laboratories	CNR-ISP-RM	Microcosms - Lab-scale experiments using synthetic and real environmental matrices to evaluate the persistence of pollutants (half-life time - DT50), their bioaccumulation, and the effects on microbial communities or specific target organisms (ecotoxicological test)	Evaluation of the persistence of organic contaminants (degradation rates and DT50) related to chemical, physical and biological processes, bioaccumulation (livings and vegetation), and evaluation of the effects of contaminants on target organisms (i.e. Eisenia Faetida), structure, and functioning of natural microbial community
Wet laboratories	CNR-ISP-VE	Access to Ultra-Clean Labs	Access to ultra clean labs (contamination controlled environments) for pre-analytical sample operations (e.g samples from Polar regions)
Wet laboratories	IZSPLV	Necropsy-post mortem analysis and investigation laboratory for mammals and turtles	Expertise and post mortem diagnostic and analysis
Wet laboratories	SZN	Medical treatment of wounded sea turtles ( <i>Caretta caretta</i> ); veterinary research, post-mortem examination, nesting at the Marine Turtles Research Centre Portici	The turtles are maintained in a semi-closed loop seawater circulation system. The service depends on animals availability.
Wet laboratories	UNICA	PIT Tagging technologies	Tagging equipment (BIOMARK and expertise for tagging wild and reared aquatic organisms, fish and invertebrates (PIT tags, tag implanters, underwater readers, pass-by aquatic antennas, tissue sampling unit, software & drivers)
Wet laboratories	UNIME	Access to ZEBRALAB facility for IN VIVO Studies on teleosts	Available services in the lab include: Histology (Tricomic, PAS, Ziehl neelsen, Anaomo-histopathology exam and diagnosis), Molecular Biology (DNA/RNA extraction from tissues, Reverse transcription, Amplification and sequencing, Electrophoretic run, qPCR) and Imaging (Stereo microscope observation, optical microscope observation, fluorescent microscope observation)



# EMBRC-IT Operators & Local Access Officers

## Stazione Zoologica Anton Dohrn

### **SZN**

#### **Napoli**

Villa Comunale, 80121, Napoli

Webpage: <https://www.szn.it/index.php/it/>

Local Access Officer: Giorgio Maria Vingiani; [giorgio.vingiani@szn.it](mailto:giorgio.vingiani@szn.it)

## Consiglio Nazionale delle Ricerche – Istituto di Scienze Polari

### **CNR – ISP**

#### **Roma, Venezia, Messina, Bologna**

Bologna Institute: Via P. Gobetti, 101 - 40129 Bologna

Roma Institute: Via Salaria km 29,300, 00015, Montelibretti

Messina Institute: Via S. Raineri n.86, 98122, Messina

Venezia Institute: Via Torino n.155, 30172 Mestre

Webpage: <https://www.isp.cnr.it/index.php/en/>

Local Access Officers: Stefano Miserocchi (Bologna), Francesca Spataro (Roma), Maurizio Azzaro (Messina), Giulio Cozzi (Venezia);

[stafano.miserocchi@cnr.it](mailto:stafano.miserocchi@cnr.it), [francesca.spataro@cnr.it](mailto:francesca.spataro@cnr.it), [maurizio.azzaro@cnr.it](mailto:maurizio.azzaro@cnr.it),  
[giulio.cozzi@cnr.it](mailto:giulio.cozzi@cnr.it)



## Università del Salento (Consorzio Nazionale Interuniversitario per le Scienze del Mare)

**CONISMA - UNISALENTO**

**Lecce**

Piazza Tancredi n. 7, 73100, Lecce

Webpage: <https://www.unisalento.it/en/web/international/>

Local Access Officer: Stefano Piraino; [stefano.piraino@unisalento.it](mailto:stefano.piraino@unisalento.it)

## Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta

**IZSPLV**

**Torino**

Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta, Via Bologna n. 148, 10154, Torino,

Webpage: <https://www.izsplv.it/it/>

Local Access Officer: Nicola Pussini; [nicola.pussini@izsto.it](mailto:nicola.pussini@izsto.it)

## Agenzia Nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile

**ENEA**

**La Spezia, Portici**

La Spezia Institute: Località Pozzuolo, Via Santa Teresa, 19032, Lerici

Portici Institute: Research Center Arcades, P.le Enrico Fermi n. 1, 80055, Portici

Webpage: <https://www.enea.it/en>

Local Access Officer: Chiara Lombardi; [chiara.lombardi@enea.it](mailto:chiara.lombardi@enea.it)



## Università degli Studi della Tuscia

### **UNITUS**

#### **Viterbo**

Via S.M. in Gradi n.4, 01100 Viterbo

Webpage: <https://unitusorienta.unitus.it/en/homepage/>

Local Access Officer: Roberta Cimmaruta; [cimmaruta@unitus.it](mailto:cimmaruta@unitus.it)

## Università degli Studi di Cagliari

### **UNICA**

#### **Cagliari**

Via Università n.40, 09124, Cagliari

Webpage: <https://www.unica.it/unica/en/ricerca.page>

Local Access Officers: Pierantonio Addis, Maria Cristina Follesa;  
[addisp@unica.it](mailto:addisp@unica.it), [follesac@unica.it](mailto:follesac@unica.it)

## Università degli Studi di Messina

### **UNIME**

#### **Messina**

Piazza Pugliatti n. 1, 98122, Messina

Webpage: <https://international.unime.it/>

Local Access Officer: Serena Savoca; [serena.savoca@unime.it](mailto:serena.savoca@unime.it)



## Università degli Studi di Torino

**UNITO**

**Torino**

Via Verdin. 8, 10124 Torino

Webpage: <https://www.szn.it/index.php/it/>

Local Access Officer: Livio Favaro, Anna Poli; [livio.favaro@unito.it](mailto:livio.favaro@unito.it),  
[anna.poli@unito.it](mailto:anna.poli@unito.it)

## Università Politecnica delle Marche

**UNIVPM**

**Ancona**

Piazza Roma n. 22, 60121, Ancona

Webpage:

[https://www.univpm.it/Entra/Universita\\_Politecnica\\_delle\\_Marche\\_Home/L/1](https://www.univpm.it/Entra/Universita_Politecnica_delle_Marche_Home/L/1)

Local Access Officer: Cristina Gambi; [c.gambi@univpm.it](mailto:c.gambi@univpm.it)