

Annual report of the Centre for Advanced Studies of Blanes (CEAB-CSIC)

Year 2025

*“From the high
mountains to the
deep sea”*

CEAB-CSIC Annual Report

2025

CEAB-CSIC Annual Report 2025

Editorial coordination

Strategy Unit (Aitana Oltra)

Communication Unit (Noemí Guillem)

Director (Marc Rius)

Editorial team

Research Promotion Area (Gemma Agell, Noemí Guillem, Gora Merseburger, Aitana Oltra, Ana Paula de Melo, Toni Pujol)

Graphic design, layout and proofreading

Communication Unit - Graphic Design (Marta Mora, Laia Rodríguez)

Collaborations

Deputy Directors (Eugènia Martí, Marc Ventura)

Heads of Department 2026 (Frederic Bartumeus, Susana Bernal, Daniel Martín)

Management and Administration (Mariona de Palau, Juan Mosquera)

Scientific team (Mariàngels Puig)

Dissemination coordination

Research Promotion Area

Licence

All content in this publication, as well as the publication itself, is licensed under the Creative Commons CC BY-ND 4.0 licence, except where specific content is explicitly identified as being subject to a different licence. This licence permits the sharing of the content, provided that the source and authorship are acknowledged.

Cover and back cover photographs



The images included in this publication are covered by the same licence (Creative Commons CC BY-ND 4.0), with attribution to CEAB-CSIC, unless a different author or licence is expressly indicated in the corresponding caption.

For stylistic reasons, the authorship and licence of the cover and back cover images are provided below.

Cover photograph: Two CEAB scientists sampling in the Riera d'Arbúcies stream, Montseny Natural Park (Catalonia). Credit: X. Peñarroya / CEAB

Back cover photograph: *Ericaria crinita*, Roca de sa Sal, Northern Menorca Marine Reserve, Balearic Islands. Author: E. Ballesteros / CEAB

Published by

Centre for Advanced Studies of Blanes,
Spanish National Research Council (CEAB-
CSIC)

Carrer d'Accés a la Cala Sant Francesc, 14,
17300, Blanes (Costa Brava, Girona, Catalunya,
Espanya)

info@ceab.csic.es / Tel.: (+34) 972 336 101

www.ceab.csic.es

Fieldwork at the Aiguamolls de l'Empordà
Natural Park.

Credits: E.Mora / CEAB



Message from the Director and CEAB team

Director's Message

Presenting the Annual Report provides another opportunity **to recognise the work of the more than 150 people who make the CEAB possible**, a community with a strong identity built on scientific excellence, collaboration and social commitment.

In 2025, the Centre placed particular emphasis on strengthening its **international profile and consolidating its scientific project**. The visit of the External Scientific Advisory Committee, the growing importance of projects secured through international funding calls, and the Centre's participation and leadership in networks such as LTER are clear examples of this. In this context, the launch of the strategic MaX project, staff consolidation processes and the formal establishment of the **Department of Theoretical Ecology and Complexity** have strengthened key areas for the years ahead.

Collaboration, knowledge transfer, science communication and the promotion of scientific culture have remained central to the CEAB model promoted by the management team. At the same time, **the scope and diversity of our active projects and contracts** have once again demonstrated the commitment of CEAB staff to conducting **rigorous and impactful research that addresses today's major environmental and societal challenges**.

2025 also marked the beginning of the CEAB's **40th anniversary** celebrations, as well as the refurbishment of several key facilities, including the Enric "Kike" Ballesteros Auditorium, designed to foster interaction and the exchange of knowledge.

All these activities form part of a scientific

project that is open to the world and continues to advance towards excellence with **responsibility, a strong public-service ethos and social commitment**.

Marc Rius, Director, CEAB

A Message from the CEAB Team

The 2025 Annual Report reflects the activities carried out throughout the year thanks to the **collective efforts** of everyone who forms part of CEAB. Researchers, technical staff, administrative and support staff, students and collaborators have all contributed to making scientific research, knowledge transfer and the development of practical solutions for the **benefit of society** possible.

The Centre is built upon a community with **diverse backgrounds, expertise and experience, working collaboratively** to advance scientific knowledge and, through research, to help address **present and future environmental challenges**. This Annual Report is also a reflection of that shared commitment.

The team would also like to **express its gratitude to the institutions, organisations and individuals** who, beyond the Centre itself, actively support its research and knowledge transfer activities. They are part of an essential **collaborative network, without which** much of the work presented in this Annual Report **would not have been possible**.

Thank you for making it possible.

The CEAB team

Index

1	CEAB overview	8	6	External partnerships and social impact	44
	• Presentation, mission, vision and values	9		• Research contracts and collaborations: facts and figures	45
	• Organisational chart	11		• Featured collaborations, research contracts and social impact stories	46
	• Funding Structure	13		• National and international networks	49
	• Research lines, facilities and services	14			
2	People, talent and organisational culture	18	7	Research training and seminars	52
	• People: facts and figures	19		• Defended PhD and Master's theses	53
	• Visiting researchers and research stays	21		• Organised courses and workshops	55
	• Internal culture and JEDI values	22		• Seminars programme	56
3	Awards and highlights	24	8	CEAB in society	58
				• Scientific culture and science communication: key figures	59
4	Key research outputs and scientific impact	28		• Featured initiatives	62
	• Publications: facts and figures	29		• Citizen science initiatives	64
	• Featured publications	31		• Selected media highlights	65
				• Selected social media highlights	69
5	Research grants and projects	36		Looking ahead	71
	• Active grants and projects: facts and figures	37			
	• Featured active grants and projects	39		Appendix: exhaustive lists	72
				• Scientific publications	73
				• Research projects and grants	88
				• Outreach activities and press notes	94

CEAB overview

This chapter provides an introduction to the Centre, with the aim of orienting the reader and providing the necessary framework to interpret the information presented throughout the report.



Presentation, mission, vision and values

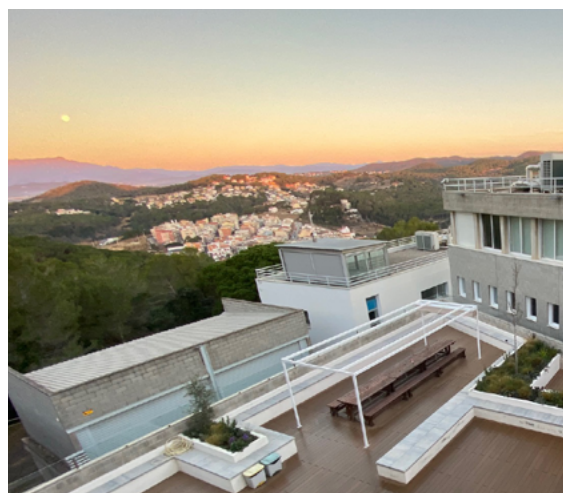
Introduction

The Centre for Advanced Studies of Blanes (CEAB) is a **research institute of the Spanish National Research Council (CSIC)** specialising in research on aquatic ecosystems, both marine and freshwater. The centre is located on the Costa Brava (Girona, Catalonia), in close proximity to a wide range of aquatic ecosystems.

Since its establishment in 1985, CEAB has carried out **research at regional, national and international levels**, with particularly extensive experience in the Mediterranean region and other areas with Mediterranean climates. Its scientific activity generates high-quality knowledge on **biodiversity, ecosystem functioning, the impacts of global change, and strategies for conservation and ecological restoration**.

This knowledge is transferred and developed in **collaboration with the scientific community, public administrations, the private sector, organisations and wider society**, contributing to a deeper understanding, more effective management and improved protection of the natural environment.

The images on this page show, from top to bottom: a view from Blanes Castle overlooking the town's coastal area, with Sa Palomera in the centre; Cala Sant Francesc, part of the coastline closest to CEAB; and the Centre's terrace, with the surrounding urban and natural landscape in the background.



Mission

To advance **scientific knowledge** of the biology, ecology and biogeochemistry of **aquatic ecosystems** through exploratory, experimental and theoretical research. The centre aims to improve **understanding of the functioning and ecological significance of these ecosystems** in the context of **global change**, while generating knowledge that supports management actions for their protection and ecological restoration.

Vision

To contribute to the **preservation of the natural environment by providing robust scientific knowledge** that enables the effective ecological restoration of aquatic ecosystems affected by human activities.

Values

Scientific excellence and innovation, promoting rigorous, original and high-quality research.

Integrity, transparency and responsibility, by upholding ethical principles and ensuring the honest and responsible conduct of scientific research.

Environmental sustainability and societal impact, directing research towards environmental protection and the benefit of society.

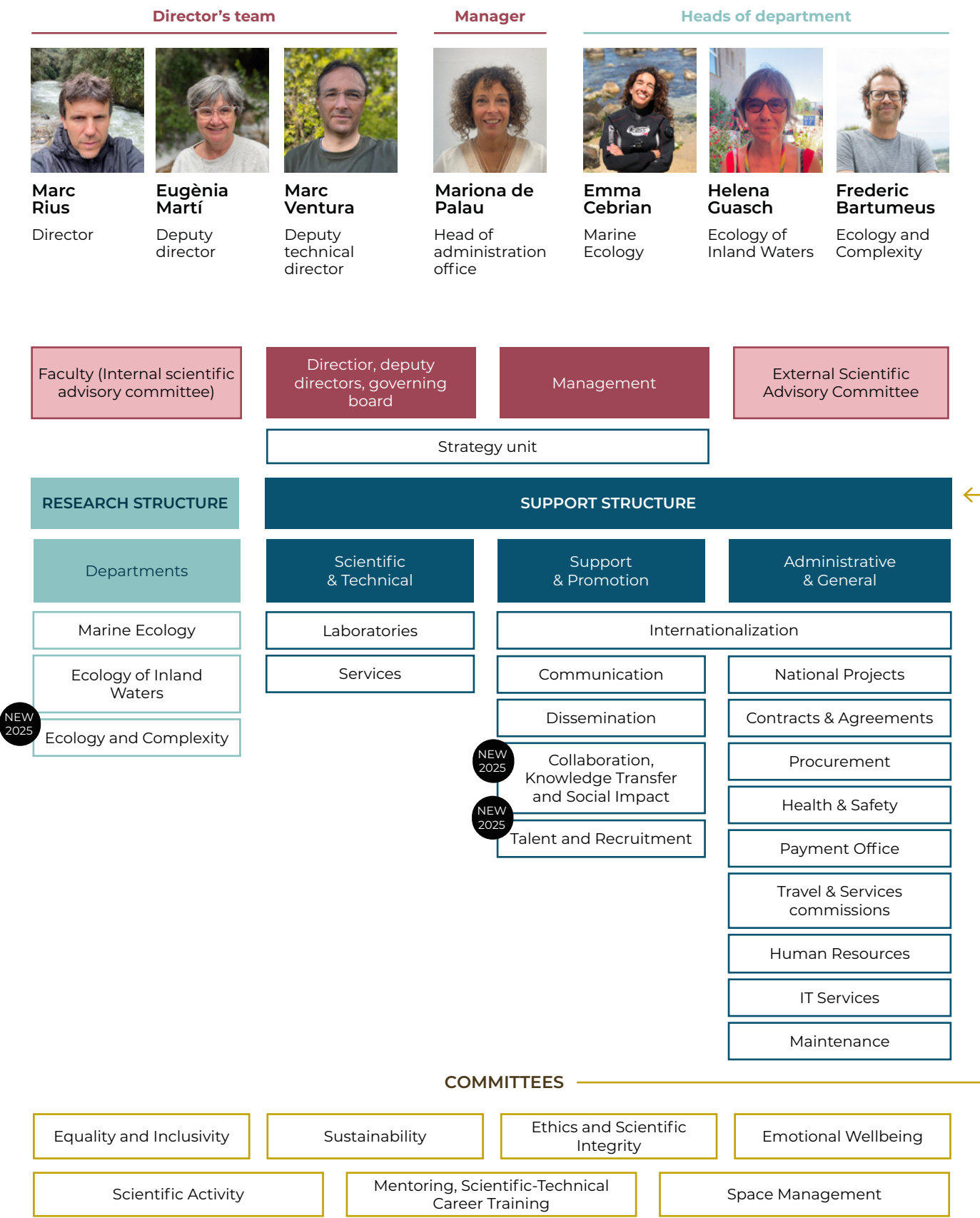
Community and collaboration, fostering teamwork and multidisciplinary and interdisciplinary approaches.

Health, well-being, equality and diversity, promoting a respectful, inclusive and healthy working environment for everyone at the centre.



CEAB courtyard.

Organisational chart



CEAB International Scientific Committee

The **External Scientific Advisory Committee (ESAC)** is composed of internationally recognised scientists with distinguished academic careers in the centre's research areas and related cross-cutting fields. Reflecting institutional diversity, the Committee advises CEAB on its strategic direction and supports the continued strengthening of the excellence and international profile of its research.



Harini Nagendra

*Azim Premji University
(India)*

Director and Professor at the School of Climate Change and Sustainability, Azim Premji University. Her research focuses on forest conservation and urban sustainability, and she has authored more than 200 scientific publications in these fields.



Isabel Muñoz

*University of Barcelona
(Spain)*

Professor, Department of Evolutionary Biology, Ecology and Environmental Sciences and researcher at the Water Research Institute (IdRA). A specialist in river ecology and aquatic invertebrates, she combines fundamental and applied research to support river management.



Karsten Rinke

*Helmholtz Centre for
Environmental Research
(Germany)*

Head of the Department of Lake Research at the Helmholtz Centre for Environmental Research in Germany and Professor of Lake Management and Modelling at the Brandenburg University of Technology. His research focuses on lake monitoring, modelling and management, as well as the adaptation of lentic ecosystems to climate change.



Tammy Robinson

*Center for Invasion Biology,
Stellenbosch University
(South Africa)*

Professor at the Centre for Biological Invasions, Stellenbosch University. A specialist in marine bioinvasions, she studies the introduction pathways, impacts and management of non-native species, with a particular focus on marine protected areas.



Alex Arenas

*Rovira i Virgili University
(Spain)*

Professor, Department of Computer Engineering and Mathematics (DEIM), External Faculty Member at the Complexity Science Hub Vienna (Austria), and Chief Scientist for Complex Systems Science at Pacific Northwest National Laboratory (United States of America).



**Lisette de Senerpont
Domis**

*Netherlands Institute of
Ecology & University of
Twente (Netherlands)*

Ecologist at the Netherlands Institute of Ecology and Professor at the University of Twente, where she holds the Chair in 'Smart Ecological Monitoring of Aquatic Systems'. Her research focuses on how global change affects aquatic ecosystems and the ecosystem services they provide.

Funding structure

As a research institute of the CSIC, CEAB operates under a **mixed funding model** that combines core institutional funding with externally secured resources obtained through competitive funding calls, research contracts, and other collaboration and knowledge transfer mechanisms.

Core funding

CEAB's core funding is provided primarily by the **CSIC which, as a State Agency under the Spanish Ministry of Science, Innovation and Universities, receives annual allocations from the Spanish General State Budget**. This support includes direct funding for the centre's day-to-day operations (€354,071 in 2025), as well as structural resources provided directly by the institution, principally scientific, technical and administrative staff. The annual economic value of these permanent civil service and staff positions amounts to €3.7 million. In addition, part of the structural costs associated with the centre's scientific activity is covered through indirect costs generated by the **competitive funding awarded to its research projects**.

LIFE is one of the European funding programmes that contributes to the competitive funding of the centre's research projects.

Competitive research funding

The centre's scientific activity is funded primarily through the successful acquisition of competitive external **funding at regional, national, European and international levels**. CEAB also secures funding through the CSIC's internal competitive funding schemes. Detailed information on these funding sources is provided on page 37.

Collaborations, contracts and other funding sources

Research institutes also secure resources through **contracts, collaborations and other funding mechanisms**, which are not always awarded through competitive calls, **with public administrations, universities, other research institutions**, and public and private organisations. Detailed information on these funding sources is provided on page 45.



Research lines, facilities and services

Research at CEAB spans the full continuum of aquatic environments, **from high mountain ecosystems to the deep sea**, and encompasses ecological studies in freshwater, coastal and marine systems. **This broad perspective shapes the centre's research**, which combines field-based, experimental, molecular and computational approaches to advance understanding of biodiversity, ecosystem functioning, and the interactions between people and the environment.

Research activities are formally structured into Departments, all of which work across three broad cross-cutting thematic areas. In 2025, the Department of Ecology and Complexity was formally established, bringing together members who were already conducting their research at CEAB.

Departments

Department of Ecology of Inland Waters

The department adopts an integrated approach to the study of freshwater ecosystems and the species they support, using methods ranging from genomics and biogeochemistry to computational approaches and the study of biodiversity and aquatic organism biology. Its research, encompassing both fundamental and applied science, addresses major societal challenges related to the conservation of species and natural ecosystems, biodiversity, and ecosystem services in the context of climate and global change.

Department of Marine Ecology

Research is conducted across a range of marine ecosystems, using approaches from the fields of biology and environmental sciences. These include the study of nutrient dynamics in the marine environment, biodiversity, ecosystem functioning, socioecology and the impacts of global change. Research aimed at the management, conservation and restoration of marine and coastal ecosystems also plays a prominent role. The approaches used include in situ and laboratory experiments, spatial gradients, time series and modelling.

Department of Ecology and Complexity

It studies complex ecological dynamics by integrating disciplines such as ecology, biology, physics, mathematics and the social sciences. It uses data-driven modelling approaches to improve understanding of ecological processes related to population and community ecology, biodiversity, organism behaviour and movement, invasion biology, and epidemiology. Through field monitoring, experimental research, computational models and mathematical frameworks, researchers analyse interactions between organisms and their environment to identify common patterns and better understand ecological responses in changing natural systems.

NEW
2025

Cross-cutting thematic areas



Biodiversity and Ecology

Study of the different forms of life in each ecosystem, their functions, the relationships between them, and their interactions with the environment.



Effects of Global Change

Research on the effects of environmental modifications and anthropogenic pressures. Diagnosis of the impacts of global change on aquatic ecosystems and evolution forecasts.



Conservation and Restoration

Use of the generated scientific knowledge to propose and implement solutions focused on the conservation and restoration of aquatic systems, as well as the rational management of natural resources.

Photographs of CEAB researchers during field sampling campaigns in aquatic ecosystems.



Infrastructures and services

CEAB provides a range of **scientific facilities and research support services**, located primarily at its headquarters in Blanes and operated by specialised staff. Key general research infrastructure and services include:

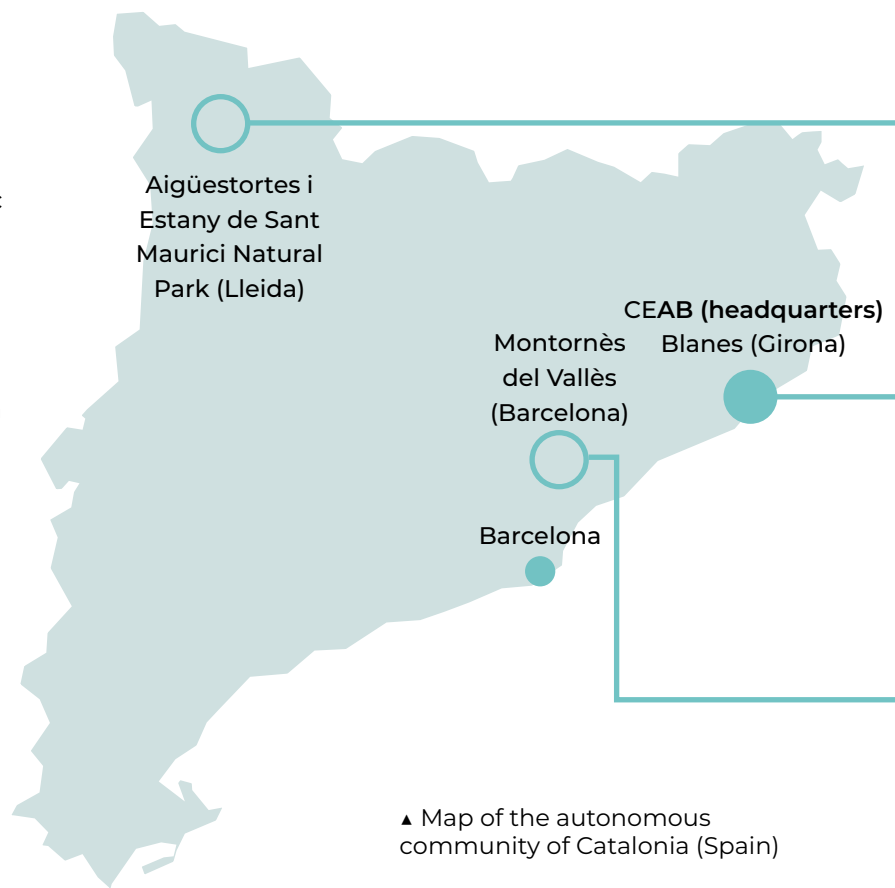
- Organism identification laboratory
- Molecular ecology and genetics laboratory
- Serveis de microscòpia òptica i electrònica
- Optical and electron microscopy services
- Otolith analysis laboratory
- Microplastics laboratory
- Chemical analysis laboratories
- Pigment analysis laboratory
- Nautical services and scientific diving facilities

In addition, the centre hosts a number of **unique research infrastructures**, some located at its headquarters and others situated close to the ecosystems under study. Several of these have been developed through collaborations with other research institutions, public administrations and private-sector organisations:

- **Pyrenees Limnological Observatory (LOOP):** A long-term ecological research observatory in the Pyrenees, providing continuous monitoring of lake and river ecosystems..
- **Live Organism Experimentation Laboratory (LEOV):** A high-capacity facility for controlled experiments on aquatic organisms, equipped with automated systems and environmental control.

- **Clean DNA Laboratory:** A specialised laboratory for DNA sample processing, operating under strict contamination-control protocols.
- **Computational Biology Laboratory (CBLab):** An advanced computing facility supporting research in computational biology, including data analysis, statistical modelling and simulations applied to ecological systems.
- **Urban River Lab (URL):** An experimental facility dedicated to the study of highly modified urban rivers and the development of nature-based solutions for river management.

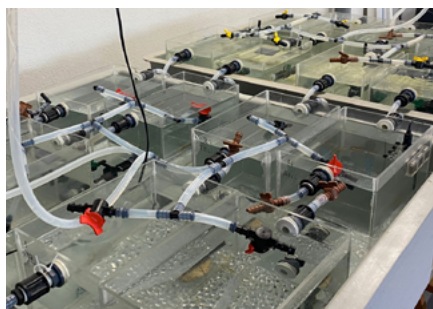
Location of unique research infrastructures





Pyrenees Limnological Observatory (LOOP)

Fieldwork at one of the LOOP monitoring sites.



Live Organism Experimentation Laboratory (LEOV)

Part of the LEOV facilities during an experimental study.



Clean DNA Laboratory

Centre staff *working* in the Clean DNA Laboratory



Computational Biology Laboratory (CBLab)

High-Performance Computing (HPC) Cluster and Its Servers



Urban River Lab (URL)

Detail of the experimental channels where the experiments are conducted.

People, talent and organisational culture

Behind every achievement is a committed community of professionals working together to advance the centre's mission. This section provides an overview of the CEAB community, including its people, international mobility, and organisational culture and values.

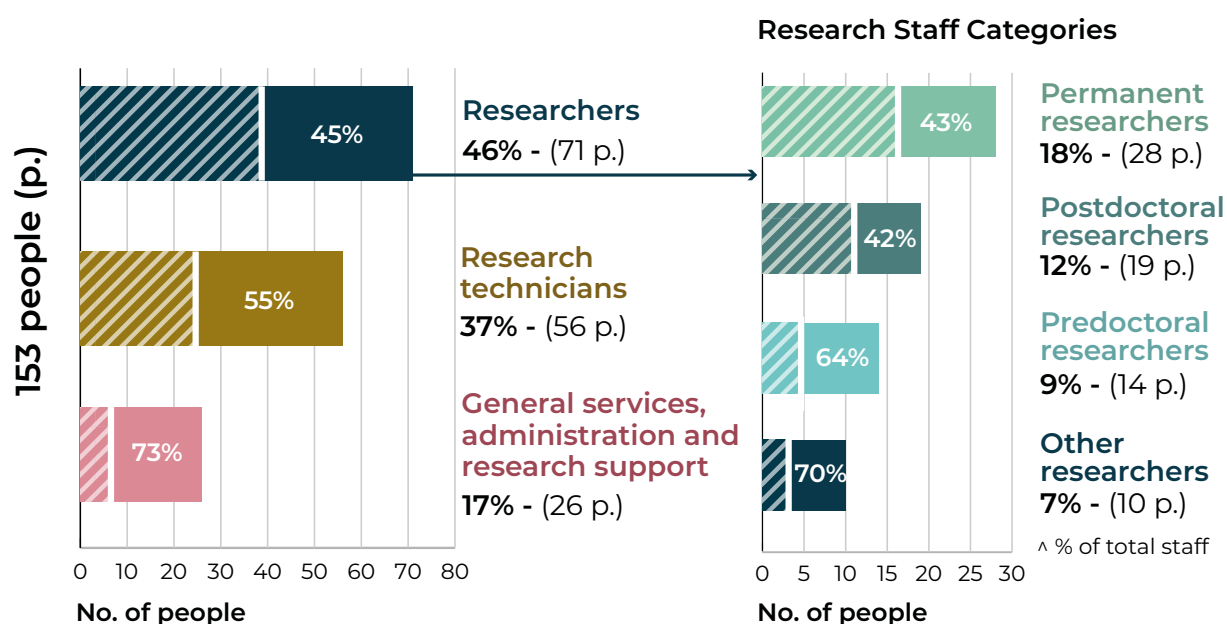


People: facts and figures

The following figures provide an overview of the talent that underpins the centre's scientific activity while shaping its organisational culture. At the end of 2025, the centre employed **153 people**, of whom **54% were women** and **46% were men**.

Staff by category

The value shown within each bar indicates the percentage of women in the corresponding category.



Of the 153 people working at CEAB, **56%** are employed on temporary contracts, while **44%** are permanent staff. In terms of the nationality of employees, **85%** are Spanish nationals, **8%** come from other European countries, and the remaining **7%** are from the Americas, Asia, Oceania and Africa.

Staff by employment status (permanent / fixed-term)



Staff by nationality

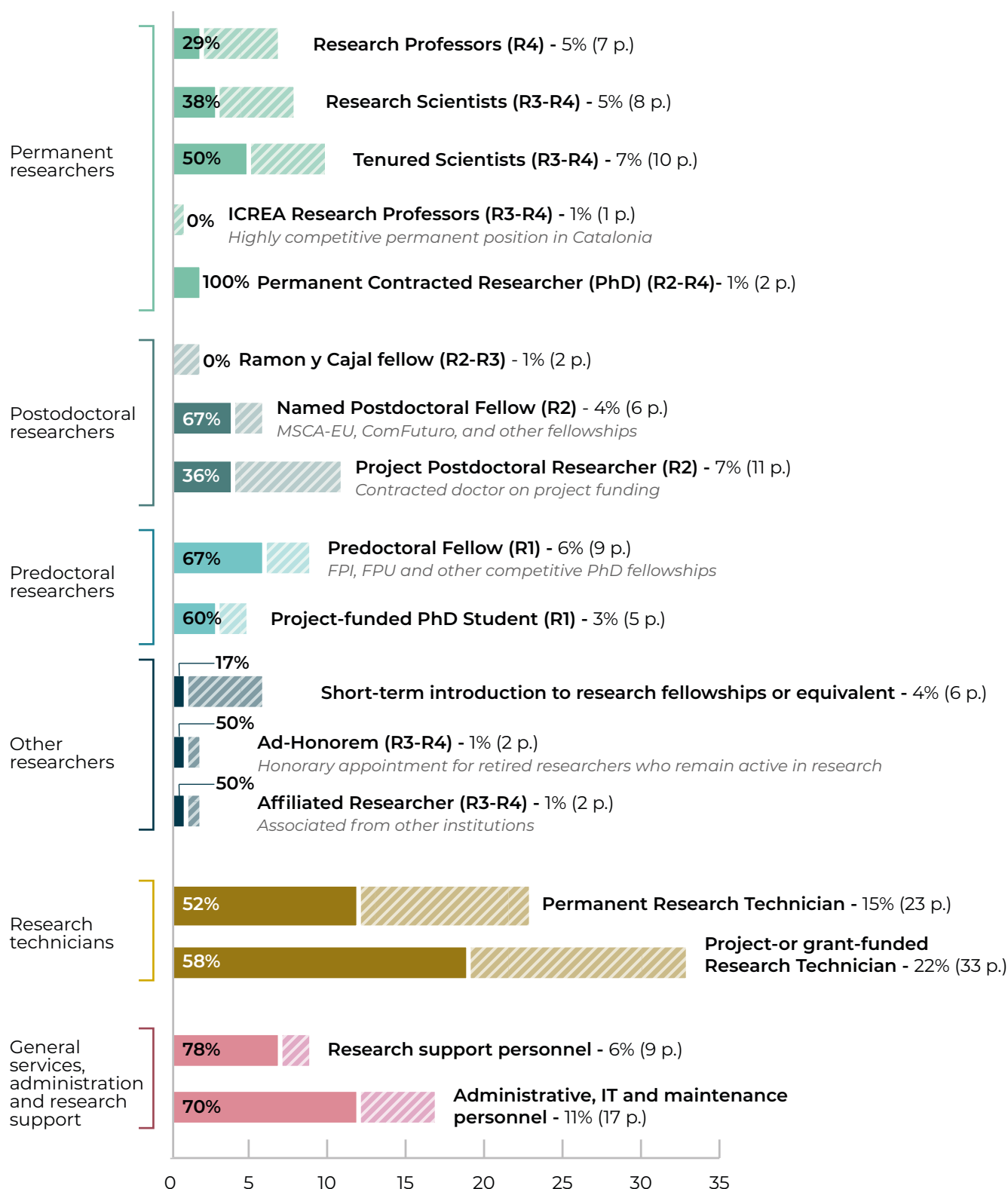


Check out the complete list of staff at this link:
<https://www.ceab.csic.es/en/the-ceab/organisation-and-team/>

Staff diversity is one of the centre's key strengths, enriching both its research and its organisational culture. The different staff categories are presented below:

Staff by category and sex

The value shown within (or alongside) each bar indicates the percentage of women in the corresponding category. The value shown at the end of each category title indicates its percentage of the total workforce, followed in parentheses by the exact number of staff. R = European Framework for Research Careers.

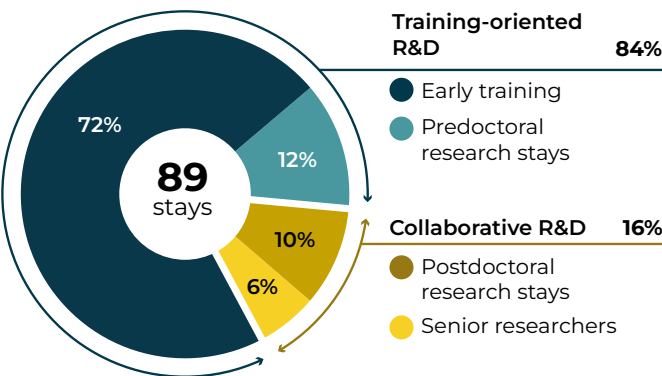


Visiting researchers and research stays

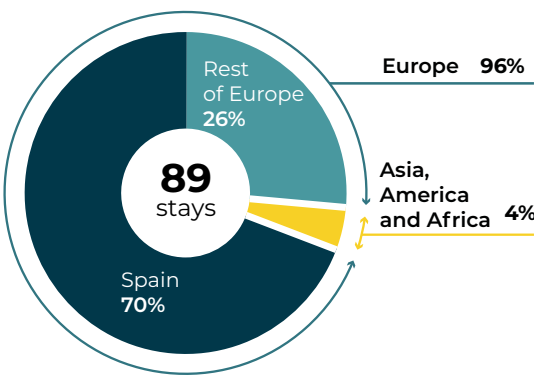
In 2025, CEAB hosted a total of **89 research stays and research visits**, with an average stay of **9 months**. **Eighty-four per cent** of these stays and visits were dedicated to **research and development (R&D) with a training purpose**, including introductory research experiences (secondary school placements, undergraduate or Master's placements) and predoctoral research stays. The remaining **16%** focused on **collaborative R&D**, including visits by postdoctoral researchers and senior scientific staff.

In terms of the participants' institutional affiliation, **70%** came from Spanish institutions, **26%** from other European countries, and **4%** from institutions in the **America, Asia and Africa**. Public universities accounted for the largest share of host institutions, followed by government agencies, foundations, non-governmental organisations and private universities.

Types of research



Institution of origin



In 2025, CEAB recorded an increase in activity, hosting 89 research stays and visits, compared with 72 in 2024, with a slightly longer average stay. Internationalisation also continued to strengthen, with 30% of stays involving international participants.

Institutions with the highest number of research stays:



Internal culture and JEDI values

CEAB's internal culture is built around the principles of JEDI (Justice, Equity, Diversity and Inclusion). Seven cross-cutting committees, together with the participation of staff across the centre, promote initiatives and proposals in key areas.

Committees

Equality and Inclusivity. Identifies inequalities and promotes actions to ensure an inclusive and equitable working environment.

Emotional Wellbeing. Provides support for emotional well-being and promotes initiatives that strengthen cohesion and community within the centre.

Space Management. Defines criteria for the allocation of space and plans future requirements in line with the centre's growth and regulatory framework.

Sustainability. Develops and monitors CEAB's Sustainability Plan across its social, environmental and economic dimensions, in alignment with CSIC policy.

Ethics and Scientific Integrity. Promotes and advises on good practices in research ethics and integrity.

Scientific Activity. Encourages scientific curiosity and collaboration through seminars, workshops and forums for scientific discussion.

Mentoring, Scientific-Technical Career and Training. Provides guidance and support for professional development.



Mentoring session with members of the External Scientific Advisory Committee, organised by the Mentoring, Scientific and Technical Career and Training, and Emotional Wellbeing Committees. (May 2025)

Summary of committee activities (2025)

Governance and coordination. Regular committee meetings and inter-committee meetings were held to prioritise actions, share progress and ensure internal coherence. An internal governance protocol for the committees was also developed.

Accountability and internal participation. Progress reports were prepared for presentation to the Governing Board, and participation in working groups and surveys helped monitor activities and gather feedback from across the centre.

Evidence-based planning. Internal data were collected and analysed (e.g. on sustainability, ethics and integrity, and remote working) to inform planning, identify needs and define operational proposals based on clear criteria.

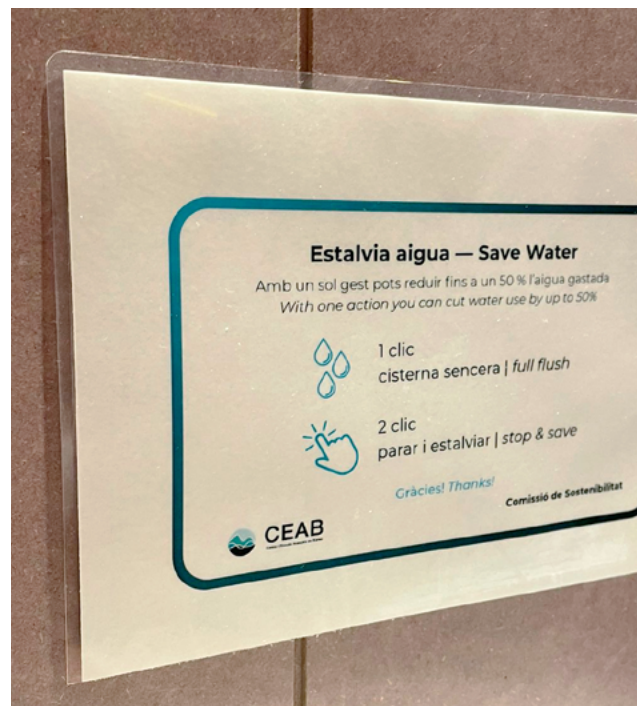
Training, JEDI culture and scientific engagement. Internal training sessions on JEDI values were organised, together with seminars and scientific activities designed to strengthen dialogue, collaboration and critical thinking.

Courses, well-being and professional development. Support was provided in sensitive situations (workplace conflicts, ethics and integrity issues), alongside mentoring schemes and assistance with onboarding processes and good supervisory practices.

Tangible improvements to the working environment, sustainability and cohesion. Specific actions include the design of a breastfeeding room, improvements to office and storage spaces through a participatory process, internal communication initiatives on sustainability (e.g. water saving, waste management and recycling), team-building activities, and initiatives to promote equality in science (e.g. 8M and 11F).



Image from one of the Equality and Inclusion Committee campaigns marking the International Day against Homophobia, Biphobia and Transphobia.



Informational poster from one of the Sustainability Committee campaigns.

Awards and highlights

This chapter presents a selection of the most significant achievements, recognitions and milestones of the reporting period.



CEAB receives the CSIC MaX seal of excellence, securing funding to deliver a strategic step forward



CEAB has been awarded the ASPIRA-CSIC “Sagrario Martínez Carrera” distinction, which recognises research centres with the capacity to achieve the highest standards of scientific excellence. The award includes up to €300,000 to implement the centre’s excellence plan and strengthen leadership, internal coordination and knowledge transfer.

Marc Rius, Director of CEAB receiving the ASPIRA-CSIC “Sagrario Martínez Carrera” distinction.

Visit of the External Scientific Advisory Committee: three days of strategic review and international perspective

CEAB strengthened the role of its External Committee through a three-day in-person visit focused on deepening understanding of the centre and reinforcing scientific excellence from an international perspective. The visit provided an opportunity to assess progress against the strategic roadmap, review the strategy in detail, identify opportunities and areas for improvement, and discuss future priorities. The programme included visits to scientific facilities, mentoring sessions, strategic workshops to define next steps.

Members of the External Scientific Advisory Committee during their visit to the CEAB facilities.



Researcher Eugènia Martí recognised as a Fellow of the Society for Freshwater Science



The Society for Freshwater Science, the leading international scientific society dedicated to the study of freshwater ecosystems, has recognised Dr Eugènia Martí as a Fellow for her outstanding career, leadership in limnology and sustained contribution to freshwater ecology. The Society also highlighted her role in bridging European and international research, as well as her commitment to knowledge exchange, training and collaboration with environmental managers.

Dr Martí (second from the right), together with the other newly elected Fellows, following the award ceremony.

Observadores del Mar receives the CSIC award for science communication and citizen science

The OdM Climate initiative of Observadores del Mar (Marine Observers), a marine citizen science platform co-coordinated by CEAB, received a runner-up award in the Citizen Science Projects category at the CSIC Science Communication and Citizen Science Awards. The project has established a network for monitoring changes in the Mediterranean, involving more than 500 divers and 33 diving centres. The jury particularly highlighted its maturity, multidisciplinary approach and capacity to raise awareness.

The Observadores del Mar team receiving the award during the 4th CSIC Conference on Scientific Culture and Citizen Science.



From a pioneering platform to a leading research infrastructure: the Urban River Lab recognised with the Water Award



The Catalan Association of Friends of Water (ACAA) has honoured the Urban River Lab with one of its Water Awards for its pioneering research on highly modified rivers and the development of nature-based solutions. Presented during the award's tenth anniversary, the prize recognises the scientific infrastructure coordinated by CEAB, highlighting the trajectory and value of an initiative that combines collaboration and knowledge transfer with direct applications to improve water quality and the ecological status of rivers.

General view of the Urban River Lab experimental channels.

A scientific legacy with a vision for the future: the Kike Ballesteros Predoctoral Fellowship is launched

CEAB and the MedRecover group have launched the Kike Ballesteros Predoctoral Fellowship, funded through the National Geographic Pristine Seas programme, to continue the scientific legacy of marine ecologist Enric “Kike” Ballesteros, who developed much of his career at CEAB. The fellowship will support a PhD project in Mediterranean marine ecology focused on biodiversity and conservation in the face of human-driven pressures, drawing on the unique datasets collected by Ballesteros and his collaborators. The initiative was presented during the Tribute to Enric “Kike” Ballesteros event held at CEAB in recognition of his professional career.

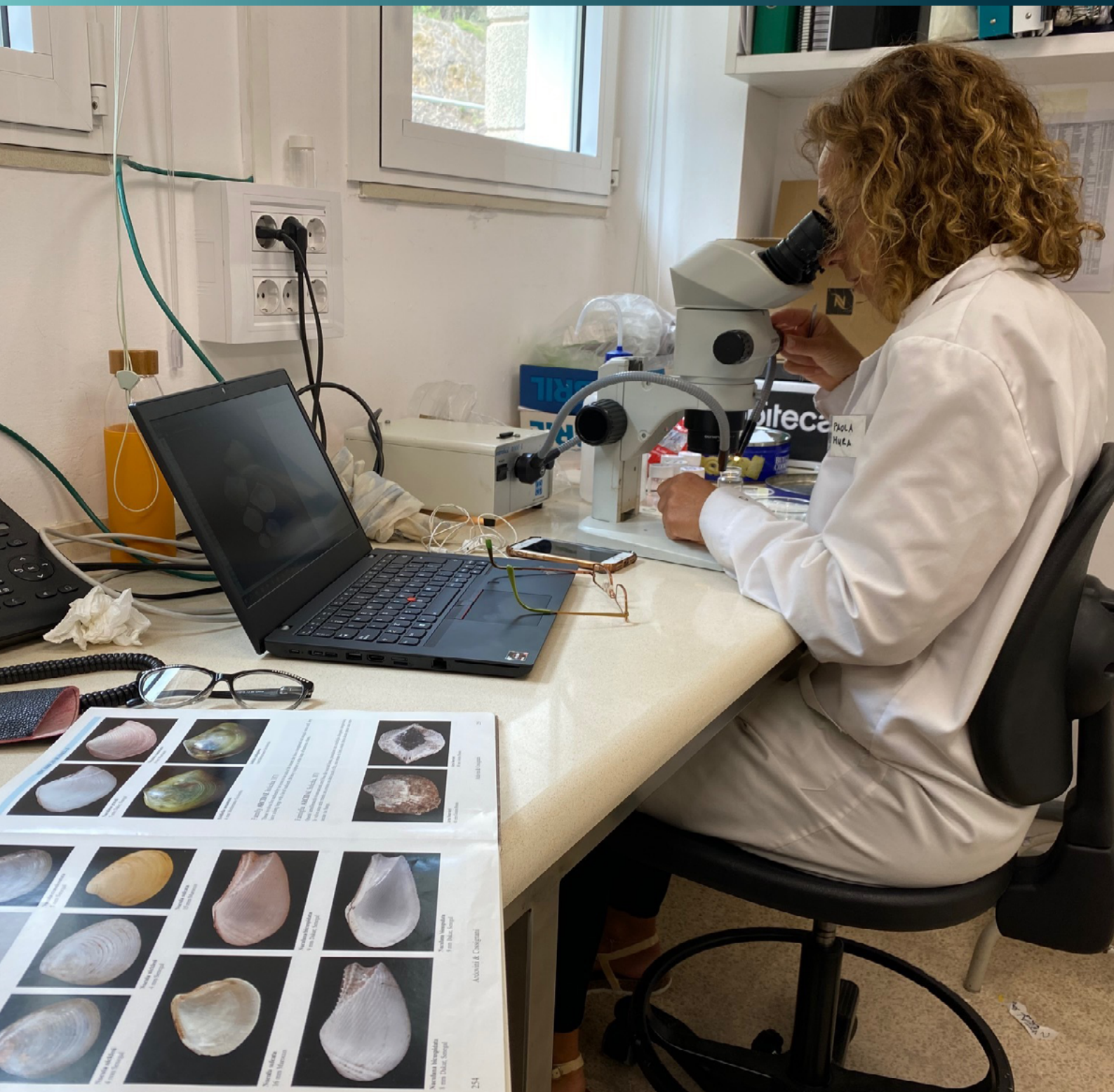
Photograph of Ander Larrea, recipient of the grant.

Credits: F. Martini / CEAB



Key research outputs and scientific impact

This section presents CEAB's main scientific contributions during 2025, based on publication data, a selection of featured research, and indicators of scientific output.



Publications: facts and figures

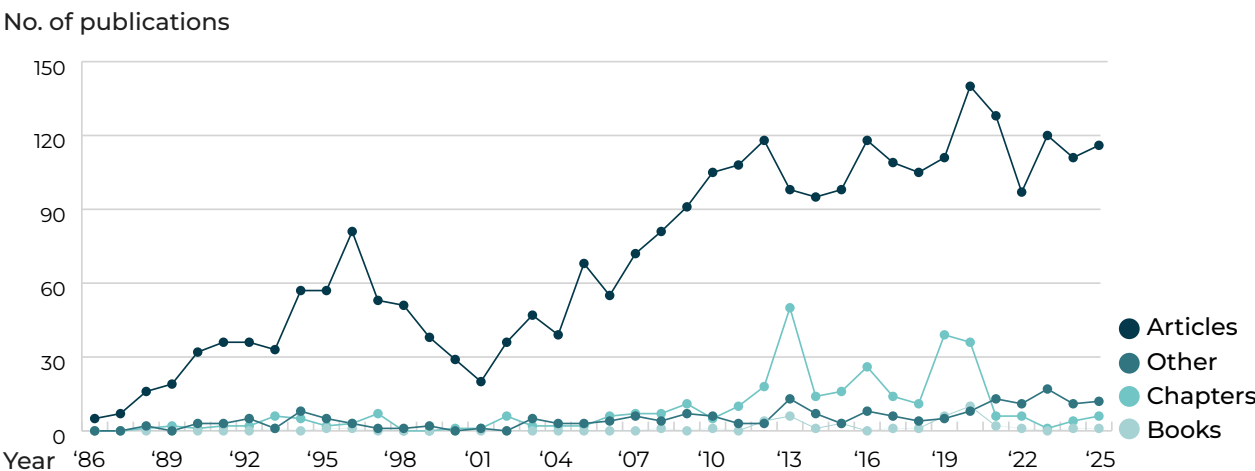
Scientific output is one of the main indicators of a research centre's activity and impact, reflecting its capacity to generate and disseminate knowledge. This page provides **an overview of the centre's publishing activity**, including indicators on scientific articles, publication trends, open access, international collaboration, and contributions to books and book chapters during 2025.



*Letters, notes, reviews and book reviews.

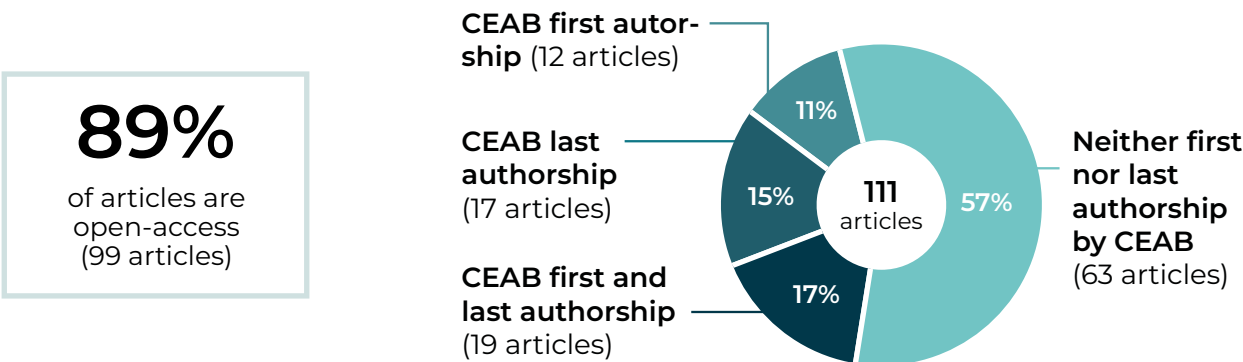
Historical Evolution of the Centre's Publications Since 1986

(Data indexed in GesBIB platform. Figures may differ from those reported in previous annual reports, which were compiled using other information sources.)



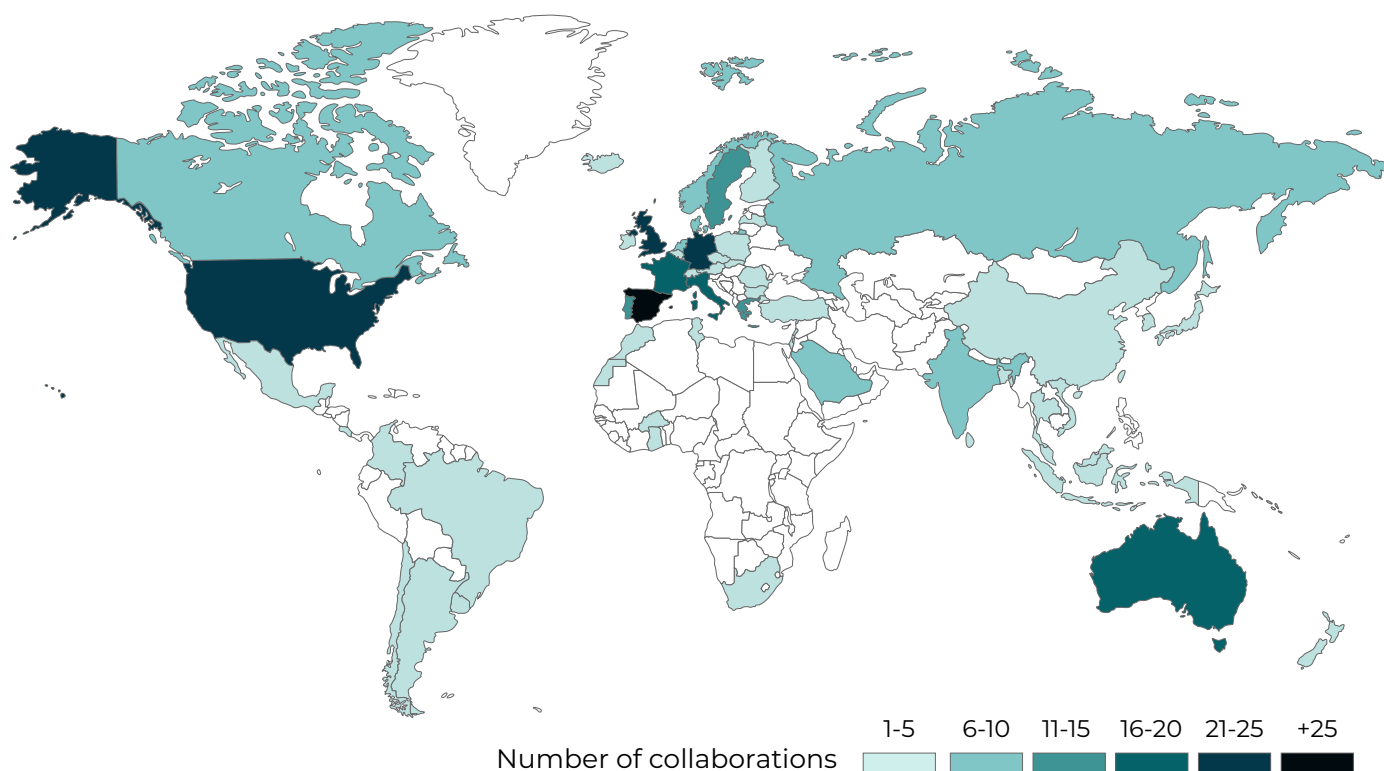
Articles

Articles by first and last author



Map of CEAB's Scientific Collaborations

based on co-authored articles published in 2025



Over 60

countries with
scientific collaboration
with CEAB

76%

of articles involve
collaboration with
international institutions

Over 100

Spanish institutions
that have collaborated
with CEAB

Citations

According to data from GesBIB platform, the centre's publications in 2025 have accumulated **more than 500 citations**, contributing to a historic **total exceeding 140,000 (1986-2025)**. This annual figure reflects the usual pattern of scientific citation, with a time lag between the publication of research findings and their impact on the scientific literature.

Overall, these indicators reflect the continuity of a well-established and internationally recognised scientific activity, together with the sustained commitment of the centre's research staff to the production and dissemination of knowledge. Beyond the year-to-year variations inherent to research, CEAB remains committed to scientific collaboration and the principles of open science.

The relative importance of dispersal and local factors in structuring phytoplankton communities in high mountain lakes in the Pyrenees

This study highlights the key role of local environmental factors in shaping phytoplankton communities in high mountain lakes and provides one of the few detailed characterisations of their specific composition in the Pyrenees. The findings show that local conditions, particularly nutrient availability and the physical characteristics of lakes, have a greater influence than the dispersal of organisms between lakes. These results contribute to a better understanding of the ecological functioning of high mountain lakes.



View of one of the lakes included in the study.

Credits: T. Buchaca / CEAB

Kim, H. G., Sabas, I., Ventura, M., & Buchaca, T. (2025). **The relative importance of dispersal and local factors in structuring phytoplankton communities in high mountain lakes in the Pyrenees.** *Inland Waters*, 15(1), 2412432. <https://doi.org/10.1080/20442041.2024.2412432>

Microbial colonization and function of biofilms developing on plastics and bioplastics in a pristine mountain stream ecosystem

This study analyses microbial colonisation on different plastic and bioplastic materials in a pristine mountain stream in the Pyrenees. The biofilm communities that develop on these materials—including bacteria, cyanobacteria, fungi and algae—show important differences in both their structure and functioning depending on the type of material. The findings demonstrate that plastic waste can alter ecological processes even in well-preserved ecosystems, contributing to a better understanding of the impacts of plastics on high mountain ecosystems.



Photo credits: Engin Akyurt / Pexels

Oliva-Albert, M., Bellostas-Carreras, A., Guijosa-Ortega, J. L., Doménech-Pascual, A., Boadella, J., Casas-Ruiz, J. P., Pineda-Morante, D., Menard, Y., Ayuso, L., Lupon, A., Martí, E., Guasch, H., Artigas, J., & Romaní, A. M. (2025). **Microbial colonization and function of biofilms developing on plastics and bioplastics in a pristine mountain stream ecosystem.** *Limnology and Oceanography*, 70(8), 2239-2255. <https://doi.org/10.1002/lno.70107>

Expanding towards contraction: The alternation of floods and droughts as a fundamental component in river ecology

Integrates knowledge from river research based on historical records and new datasets, highlighting that wet and dry phases are an essential part of the natural functioning of river ecosystems. The study proposes incorporating the alternation between floods and droughts into the conceptual framework of river ecology, overcoming the traditional focus on flowing water alone. This perspective provides a new way of understanding and managing rivers in the context of climate change and global change.



The Fuirosos stream (Montnegre), one of the river systems studied in this research.

Credits: X. Peñarroya / CEAB

Bernal, S., Ledesma, J. L. J., Peñarroya, X., Jativa, C., Catalán, N., Casamayor, E. O., Lupon, A., Marcé, R., Martí, E., Triadó-Margarit, X., & Rocher-Ros, G. (2025). **Expanding towards contraction: The alternation of floods and droughts as a fundamental component in river ecology**. *Biogeochemistry*, 168(1), 11. <https://doi.org/10.1007/s10533-024-01197-1>

Grazing halos reveal differential ecosystem vulnerabilities in vegetated habitats

Analyses the grazing halos—bare patches created by sea urchins—in vegetated Mediterranean marine ecosystems to assess habitat vulnerability. Based on the analysis of more than 1,200 halos across 31 locations, the study shows that their size reflects the balance between vegetation growth, herbivore pressure and environmental factors such as protection status, nutrient availability and seabed complexity. The work proposes grazing halos as a simple indicator for detecting vegetated ecosystems that are undergoing severe degradation.



Sea urchin surrounded by a characteristic grazing halo, a bare area with no surrounding vegetation.

Minguito-Frutos, M., Arthur, R., Boada, J., Marco-Méndez, C., Adams, M. P., Pagès, J. F., Buñuel, X., Pesarrodona, A., Turon, X., Ballesteros, E., Tamburello, L., Farina, S., Skouradakis, G., Kletou, D., Cebrian, E., Santamaría, J., Verdura, J., & Alcoverro, T. (2025). **Grazing halos reveal differential ecosystem vulnerabilities in vegetated habitats**. *Ecology*, 106(11), e70239. <https://doi.org/10.1002/ecy.70239>

Global estimates of seagrass blue carbon stocks in biomass and net primary production

Presents the first global inventory of blue carbon stored in seagrass meadows. The study quantifies the capacity of these marine ecosystems to capture, transform and store carbon through the living biomass of seagrass plants, showing that, despite occupying only a very small fraction of the oceans, they play a key role in mitigating climate change. The findings provide essential evidence for incorporating seagrass meadows into carbon accounting frameworks and promoting their conservation and restoration.



Posidonia oceanica seagrass meadow.

Gomis, E., Strydom, S., Foster, N. R., Montemayor, D., Mateo, M. A., Serrano, E., Inostroza, K., McCallum, R., Lafratta, A., Webster, C. L., O'Dea, C. M., Said, N. E., Dunham, N., Bernasconi, R., Werner, A., Vitelli, F., Puigcorb , V., D'Cruz, A., Salinas, C., ... Serrano, O. (2025). **Global estimates of seagrass blue carbon stocks in biomass and net primary production**. Nature Communications, 16(1), 9530. <https://doi.org/10.1038/s41467-025-64667-6>

The Ocean & Society Survey: A Global Tool for Understanding People–Ocean Connections and Mobilizing Ocean Action

Presents the co-design process of the Ocean & Society Survey, an international global questionnaire created to analyse how people understand, value and relate to the ocean. The tool makes it possible to study perceptions, values, knowledge and behaviours related to the marine environment across diverse cultural contexts. The study provides a common baseline for comparing these relationships across regions and over time, helping to inform policies, communication strategies and social participation initiatives in the marine domain.



People's relationship with the sea is key to advancing its conservation.

Credits: Abdalla Elayyan / Pexels

McRuer, J., Glithero, D. L., McKinley, E., Pag s, J. F., Fauville, G., Morris-Webb, E. S., Hart, N., Strang, C., Cristofolletti, R., Hulme, S., Grainger, E., Pinheiro, B., Payne, D. L., Bridge, N., Lindoso, V., Martins, I. M., Zandvliet, D., Bueno Fernandes, M., Bumbeer, J., & Shellock, R. (2025). **The Ocean & Society Survey: A Global Tool for Understanding People–Ocean Connections and Mobilizing Ocean Action**. Ocean and Society, 2, 9809. <https://doi.org/10.17645/oas.9809>

Foraging ants as liquid brains: Movement heterogeneity shapes collective efficiency

Drawing on the behaviour of hundreds of ants and a mathematical model, this study demonstrates that collective intelligence systems without a central control unit can function as a “liquid brain”. It shows that the diversity of movement patterns and the complexity of interactions are key drivers of collective intelligence and efficiency. The findings explain how changes in habitat can rapidly alter collective behaviour and the ability of these systems to adapt, contributing to our understanding of complex systems and collective intelligence.



Detail of the experimental setup used to study collective behaviour in ants.

Credits: P. Fernandez / CEAB

Fernández-López, P., Oro, D., Lloret-Cabot, R., Genovart, M., Garriga, J., & Bartumeus, F. (2025). **Foraging ants as liquid brains: Movement heterogeneity shapes collective efficiency**. *Proceedings of the National Academy of Sciences*, 122(31), e2506930122. <https://doi.org/10.1073/pnas.2506930122>

Adaptations to marine environments and the evolution of slow-paced life histories in endotherms

Analyses the recolonisation of marine environments and the life-history strategies of endothermic animals. The study shows that adaptation to demanding marine environments has favoured the evolution of slower life-history strategies, characterised by longer reproductive lifespans and extended development. The results also indicate that these changes are constrained by species' ancestral traits and provide evidence that the interaction between habitat shifts and evolutionary history shapes the biological characteristics of organisms.



Marine animals studied as part of this research.

Credits: Pep Arcos and Enric Badosa

Sol, D., Prego, A., Olivé, L., Genovart, M., Oro, D., & Hernández-Matías, A. (2025). **Adaptations to marine environments and the evolution of slow-paced life histories in endotherms**. *Nature Communications*, 16(1), 4265. <https://doi.org/10.1038/s41467-025-59273-5>

Population Structure Plays a Key Role in Community Stability

Develops a general framework for incorporating population structure into studies of ecological community stability. The study shows that differences in the needs, behaviours and ecological functions of organisms at different life stages improve the distribution of resources and help buffer environmental fluctuations. It offers a new perspective on the role of population age structure, suggesting that accounting for it is essential for understanding and predicting how communities respond to environmental change.



Credits: Svetlana Obysova / Pexels

Giménez-Romero, À., Hernández, C., Genovart, M., & Salguero Gómez, R. (2025). **Population Structure Plays a Key Role in Community Stability**. *Ecology Letters*, 28(12), e70272. <https://doi.org/10.1111/ele.70272>

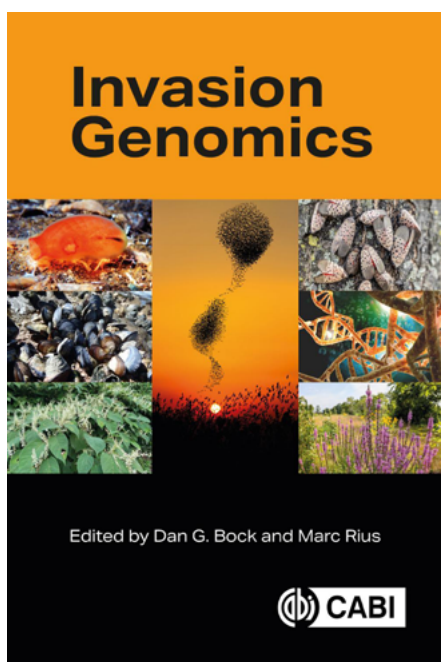


Image of the cover of *Invasion Genomics*, co-edited by CEAB researcher Marc Rius, who also contributed as an author of several chapters.

Featured book

Genomic methodologies are redefining the science of biological invasions by shedding light on mechanisms such as hybridisation, rapid adaptive change, and shifts driven by genetic and epigenetic variation. This book synthesises scientific advances across different taxa and ecosystems, integrating detection frameworks and predictive modelling, while identifying emerging research directions and conceptual frontiers in bioinvasion genomics.

Browse the full list of scientific publications here:
<https://www.ceab.csic.es/en/scientific-publications/>

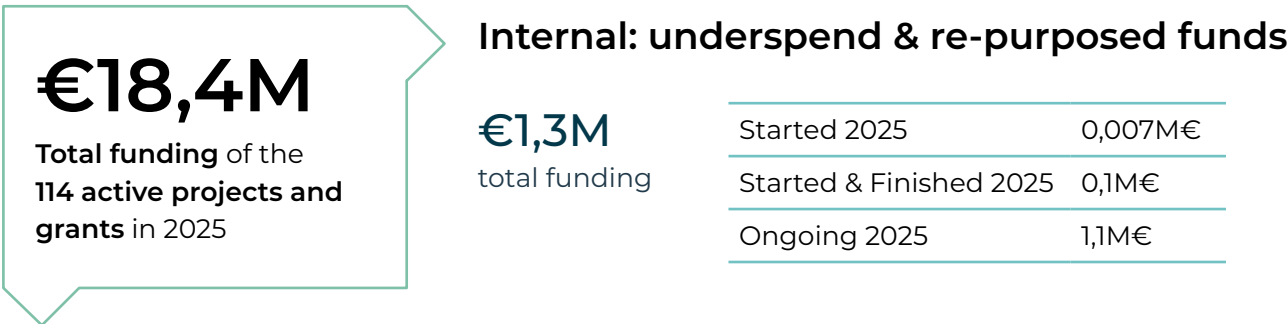
Research grants and projects

This chapter provides an overview of the centre's active research projects and funding, highlighting the main figures and a selection of ongoing initiatives.



Active grants and projects: facts and figures

In 2025, CEAB-CSIC managed a portfolio of **114 active research projects and grants**. Together, these represented **€18.4 million** in total funding. Of this amount, **€1.3 million** corresponded to **10 intramural projects** (funded through budget carry-overs and reallocated institutional funds), while **€17.1 million** corresponded to **104 externally funded grants and projects**, awarded mainly through competitive funding calls and public grants. See **page 13** for an overview of the centre's funding sources.

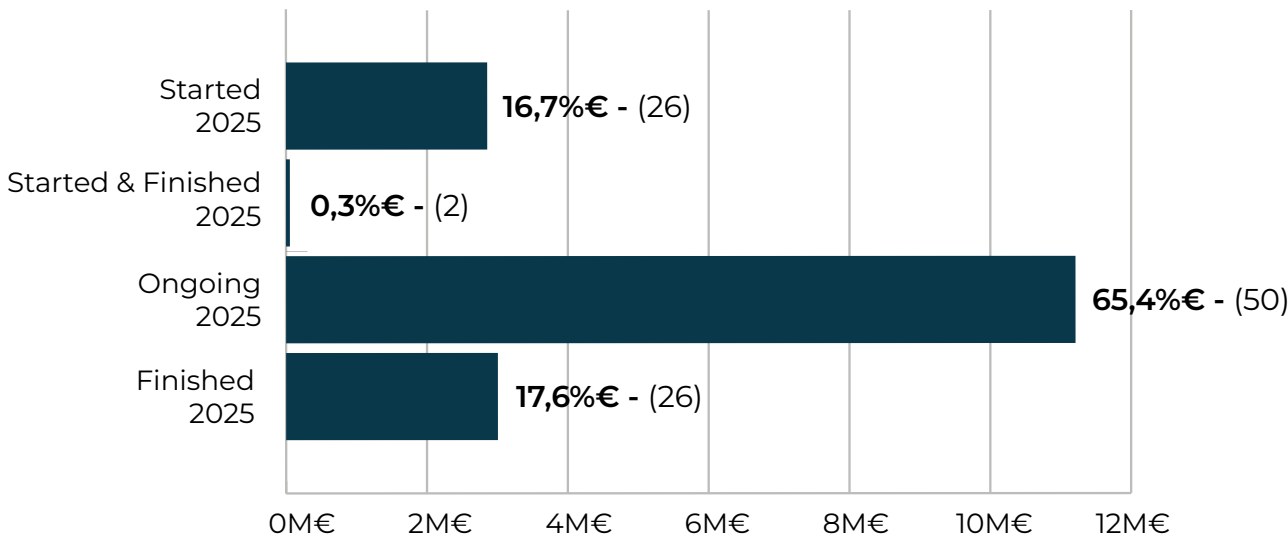


External: grants & projects



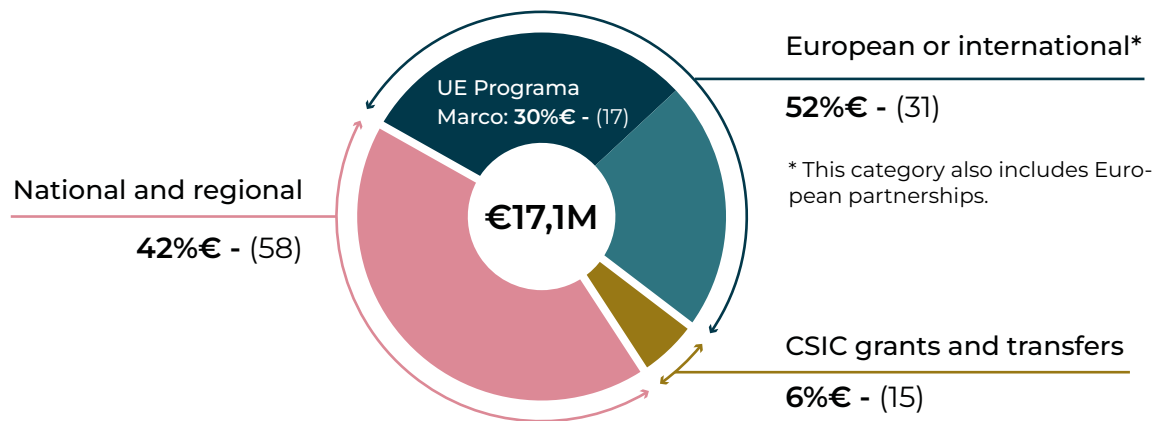
The charts below show the **distribution, percentage of the budget (%)**, and **number of grants/projects** (in parentheses) (€M = million euros)

Funding status: 2025

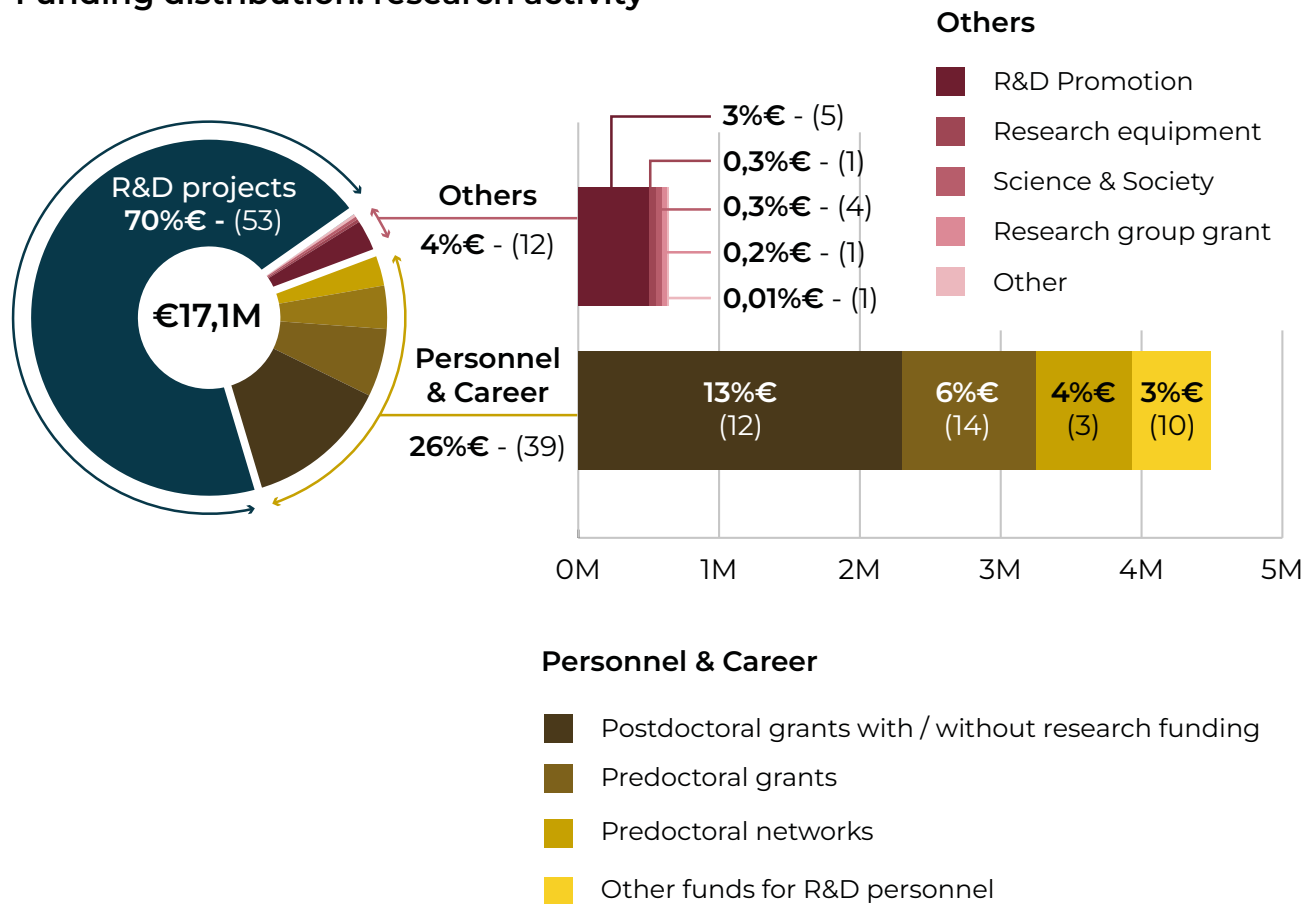


The charts below show the **distribution, percentage of the budget (%)**, and **number of grants/projects** (in parentheses).

Funding origin



Funding distribution: research activity



Featured active grants and projects

Eco-Epidemiological Intelligence for early Warning and response to mosquito-borne disease risk in Endemic and Emergence settings - E4Warning

PI CEAB: Frederic Bartumeus

CEAB Budget: €1,00M

Participants: 8 entities from Spain, Belgium, Greece and Germany

Funding programme: Horizon Europe - Cluster 6

Period: 2022 - 2026

Website: <https://www.e4warning.eu/>

COORDINATED BY
CEAB

The project addresses the early detection and prediction of the risk of mosquito-borne diseases by improving understanding of the interactions between humans, vectors and the environment through a combination of field observation, modelling, citizen science and advanced data analysis. It provides early warning systems, strengthening public health responses and disease prevention strategies.



Fieldwork at the Aiguamolls de l'Empordà Natural Park.



Funded by
the European Union

Beyond the current: Improving European flowing waters in an era of global change - BEYOND

PI CEAB: Susana Bernal

CEAB Budget: €0,26M

Participants: 10 entities from Spain, France, Germany, Austria, Sweden, Ireland and the United Kingdom

Funding programme: Horizon Europe - Marie Skłodowska-Curie Doctoral Network

Period: 2025 - 2028

Website: <https://www.slu.se/en/research/research-catalogue/projekt/b/beyond/>

The project addresses water quality challenges in European river ecosystems under global change while training a new generation of researchers. It adopts a multidisciplinary approach combining field observations, monitoring, modelling, high-resolution sensors and doctoral training within an international network. The project provides knowledge and tools to strengthen water management, support environmental policies and enhance ecosystem resilience.



Fieldwork at the Fuirosos Stream (Montnegre i el Corredor).

Credits: X. Peñarroya / CEAB



Funded by
the European Union



Project team members during a visit to the Erken Lake monitoring station (Sweden).

Photo credit: InventWater



**Funded by
the European Union**

Inventive forecasting tools for adapting water quality management to a new climate - InventWater

COORDINATED BY
CEAB

IP del CEAB: Rafael Marcé

CEAB Budget: €0,19M

Participants: 10 entities from Spain, Denmark, Germany, Austria, Belgium, the Netherlands, Ireland and the United Kingdom

Funding programme: Horizon 2020 - Marie Skłodowska-Curie Innovative Training Networks

Period: 2021 - 2026

Website: <https://inventwater.eu/>

The project addresses water quality challenges in the context of climate change through the prediction and adaptive management of rivers, lakes and reservoirs. It applies a multidisciplinary approach combining climate modelling, monitoring data and the training of an interdisciplinary doctoral network. It provides new tools and knowledge to strengthen decision-making and long-term adaptation.



Photo credit: Mosquito Alert, CC-BY 4.0

Human-Mosquito Interaction Project: Host-vector networks, mobility, and the socio-ecological context of mosquito-borne disease - H-MIP

IP del CEAB: Frederic Bartumeus

CEAB Budget: €0,5M

Participants: 10 entities from Spain

Funding programme: Horizon 2020 – ERC Starting Grants

Period: 2020 - 2026

Website: <https://h-mip.com/>



The project studies interactions between humans and mosquitoes to better understand disease transmission in a socio-ecological context. It applies an interdisciplinary approach combining DNA analysis, citizen science, mobility data and social networks. The project generates knowledge and improved epidemiological models to support the monitoring and management of mosquito-borne diseases.

Enhancing social well-being and economic prosperity by reinforcing the effectiveness of protection and restoration management in Mediterranean MPAs - EFFECTIVE

IP del CEAB: Rafael Sardà

CEAB Budget: €0,39M

Participants: 21 entities from Spain, Ireland, the Netherlands, Germany, Denmark, Austria, Italy, Greece, Cyprus, Bulgaria and Ukraine

Funding programme: Horizon Europe – Mission “Restore our Ocean and Waters”

Period: 2023 - 2027

Website: <https://effective-euproject.eu/>

The project focuses on protecting and restoring Mediterranean marine ecosystems by improving the effectiveness of management in marine protected areas. It applies an ecosystem-based approach that combines monitoring, modelling, nature-based solutions, digital tools and stakeholder engagement. The project provides knowledge, tools and guidance to strengthen conservation, governance, resilience, marine biodiversity and blue natural capital.



Detail of a red coral colony on a Mediterranean seabed.



Co-funded by
the European Union

Restoration of aquatic ecosystems of protected areas from the Alps and Pyrenees - RESQUE ALPYR

COORDINATED BY
CEAB

IP del CEAB: Teresa Buchaca

CEAB Budget: €1,47M

Participants: 10 entities from Spain and Italy

Funding programme: LIFE 2020 Natura

Period: 2022 - 2026

Website: <https://liferesquealpyr.eu>

The project addresses the restoration of mountain aquatic habitats and the improvement of the conservation status of Natura 2000 sites in the Pyrenees and the Alps. It removes non-native fish, manages riparian forests and restores wetlands through nature-based solutions and territorial management. These actions provide replicable strategies for biodiversity conservation and ecosystem resilience.



Field sampling in one of the high-mountain lakes included in the project.



GOBIERNO DE ESPAÑA
VICEPRESIDENCIA
TERCERA DEL GOBIERNO
MINISTERIO
PARA LA TRANSICIÓN ECOLÓGICA
Y EL RETO DEMOGRÁFICO





Environmental monitoring station installed in a high-mountain area.



Impacts of climate, N and P deposition and land use on water as a driver of the greenhouse gases regulatory ecosystem service in headwater catchments - SERVICO2

IP del CEAB: Lluís Camarero

CEAB Budget: €0,28M

Participants: 6 entities from Spain, Italy, the Czech Republic, Sweden and Finland

Funding programme: Water4All Partnership

Period: 2025 - 2028

Website: <https://servico2.org/>

COORDINATED BY
CEAB

The project investigates how climate change, nitrogen and phosphorus deposition, and land use affect freshwater ecosystems and their capacity to regulate greenhouse gas emissions. It applies a multidisciplinary approach combining field data, analysis, modelling and stakeholder engagement. The project advances scientific knowledge and provides support for climate regulation policies and strategies.



Specimens of the blue crab (*Callinectes sapidus*), a target species monitored by the project.

Credit: A. Hierro / CEAB



Cofinanciado por
la UNIÓN EUROPEA
Cofinancé par
l'UNION EUROPÉENNE

Seguimiento de especies marinas alóctonas en las costas de Occitania y Cataluña - ALIEN-OCCICAT

IP del CEAB: Daniel Martin

CEAB Budget: €0,1M

Participants: 5 entities from Spain and France

Funding programme: Interreg POCTEFA

Period: 2025 - 2027

Website: <https://afle.euroregio.eu/es/alien-2/>

The project focuses on the monitoring and early detection of non-indigenous marine species along the coasts of Occitania and Catalonia to reduce biodiversity loss and socio-economic impacts. It applies a cross-border approach combining scientific methods, environmental DNA and citizen science. The project strengthens knowledge and provides strategies to anticipate biological invasions and improve ecosystem management.

Microbial Aerosolization and Ecosystem Services of Ephemeral Wetlands in Arid Regions - DRYLANDS

PI CEAB: Emilio O. Casamayor

CEAB Budget: €0,26M

Participants: 3 entities from Spain, Denmark and the United States

Funding programme: Plan Estatal - Generación de Conocimiento

Period: 2025 - 2028

The project studies the generation of aerosols and the long-distance transport of particles, pollutants and microorganisms in arid regions under climate change. It applies a multidisciplinary approach combining metagenomics, modelling, monitoring data and satellite observations. DRYLANDS highlights the role of temporary wetlands in reducing aerosolization, contributing to ecosystem services and environmental management.



Researchers conducting field sampling during the project.



Blue Carbon in Seagrass Meadows: From Ecosystem to Markets - BLUESTOCK

PI CEAB: Miguel Ángel Mateo

CEAB Budget: €0,18M

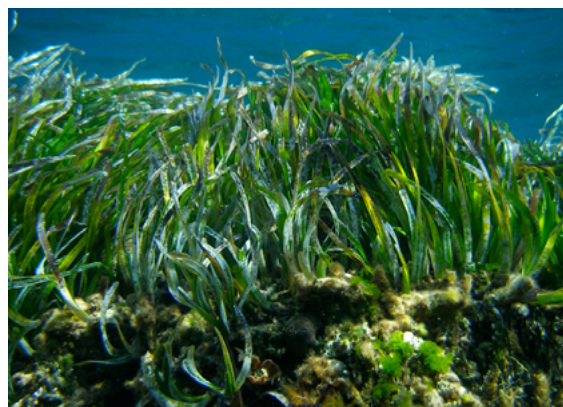
Participants: 2 entities from Spain

Funding programme: Plan Estatal - Generación de Conocimiento

Period: 2025 - 2029

Website: <https://game-csic.com/portfolio-item/bluestock/>

BLUESTOCK promotes the conservation and valorisation of blue carbon stored in *Posidonia oceanica* seagrass meadows through innovative technologies for monitoring, mapping and carbon assessment. It integrates artificial intelligence, remote sensing, the Internet of Things and underwater robotics to develop scalable methodologies and solutions for carbon mitigation and to support European climate policies.



Detail of a *Posidonia oceanica* meadow.



External partnerships and social impact

This section provides an overview of 2025 in terms of external relations, including collaborations, networks and research contracts, together with a selection of examples illustrating the impact of research beyond academia and the practical application of its outcomes.



Research contracts and collaborations: facts and figures

Collaboration agreements and research contracts are essential tools for building partnerships and ensuring the successful fulfilment of CEAB's scientific mission. They enable cooperation with public and private entities, strengthen research networks, support the effective implementation of projects, and facilitate the application of the knowledge and tools generated.

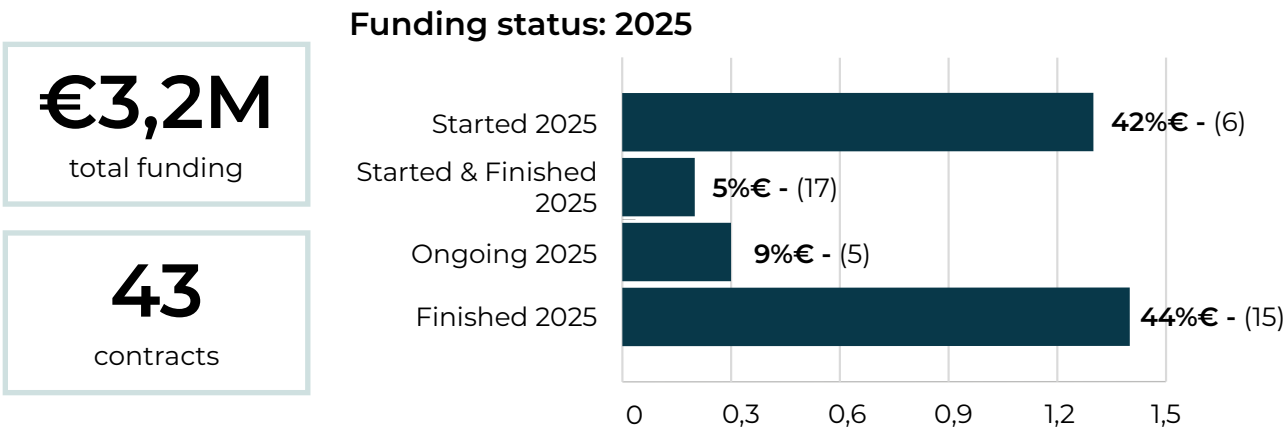
Active collaboration agreements

In 2025, CEAB has participated in **21 active collaboration agreements**, most of them multi-year agreements, primarily with national institutions. These agreements have covered a wide range of areas, particularly educational and training cooperation with neighbouring universities, as well as joint activities with other public administrations and research institutions, and the allocation of funding within research projects.

Research contracts

Research contracts have represented a significant source of funding and collaboration for CEAB. In 2025, the centre has participated in **43 contracts**, representing a total of **€3.2 million in funding**. The contract portfolio has shown a good balance between public and private organisations and between national and international partners, reflecting CEAB's commitment to diverse and collaborative research.

The charts below show the distribution, percentage share of the budget (%) and the number of grants/projects (shown in parenthesis).



Research contracts by organisation origin



Research contracts by organisation type



Featured collaborations, research contracts and social impact stories



Cover page of the Science for Policy report on biodiversity loss by CSIC.

The Science for Policy report on biodiversity loss, co-led by a CEAB researcher, has been published

The report is addressed to public administrations and society and analyses the importance of biodiversity loss, its links to the main drivers of global environmental change and its international implications. Based on robust scientific evidence, it translates knowledge into actionable recommendations to guide public policies and proposes concrete measures to halt the current biodiversity crisis.



Group photograph of the workshop participants.

Credits: IPE / CSIC Aragón Delegation

Ciceron CSIC Trail: connecting science and society for biodiversity conservation and restoration

Representatives from CEAB's three departments have participated in an IPE-CSIC workshop, contributing knowledge on a wide range of environments, from high-mountain lakes to marine ecosystems. The objective has been to share scientific evidence with public administrations, businesses, social organisations and the media in order to contribute to public decision-making and integrate the social dimension into environmental management.



Mosquito trap connected to MIA, one of the information sources used by the EO service.

Credits: E. Mora / Mosquito Alert

The European Commission's Innovation Radar has selected the EO service for its public health potential

The EO service, developed within the Horizon Europe MOVED project, of which CEAB is a partner, is a technology that facilitates the rapid sharing of useful data to prevent outbreaks of mosquito-borne diseases. It integrates data from smart traps and citizen science initiatives to generate timely and actionable maps.

A new low-cost, solar-powered, open-source device enables continuous wildlife monitoring

The device, developed by researchers from CEAB, CREA and IBE (CSIC-UPF), enables the continuous monitoring of wildlife in remote areas. Validated through western jackdaw monitoring programmes, it reduces costs and automates data processing using artificial intelligence, expanding the possibilities for ecological field studies.



Close-up of researchers working with the device.

Credits: Galdric Mossoll/CREAF, CC BY-NC 4.0

Launch of a public-private collaboration agreement to drive innovation in wastewater treatment in Rubí

The four-year agreement establishes the framework for implementing a pilot project on wastewater treatment through nature-based solutions using experimental wetlands. The initiative involves CSIC (CEAB and IDAEA), the Catalan Water Agency (ACA), the Baix Llobregat Regional Council and AstraZeneca.



Rubí wastewater treatment plant.

Source: Generalitat de Catalunya

Pilot project assessing the role of dam and weir removal in mitigating greenhouse gas emissions

In the context of the removal of the Monistrol de Calders dam, researchers from CEAB have observed a significant reduction in methane emissions following the removal. This pilot project forms part of a long-term research programme aimed at gaining a deeper understanding of the role of river barrier removal as a mechanism for climate change adaptation and mitigation.



Monistrol de Calders.

Source: Agència Catalana de l'Aigua (ACA)



Detail of *Posidonia oceanica*.

Monitoring of macroalgae under the Water Framework Directive on the Catalan coast

CEAB is responsible for carrying out monitoring contracts for marine phanerogams under the Water Framework Directive along the Catalan coast for the period 2025-2030. *Posidonia oceanica* and *Cymodocea nodosa* are the target species of these contracts, awarded by the Catalan Water Agency for a total value of almost one million euros.



Fieldwork carried out under the ENEO3 project.

Technical support contract for assessing nitrate mitigation potential in vulnerable areas of Catalonia

CEAB launched work under the ENEO3 project, funded by the Catalan Water Agency. The 3.5-year contract seeks to promote the mitigation of diffuse anthropogenic pollution by harnessing natural attenuation processes, while providing evidence to support public decision-making.

National and international networks

CEAB actively participates in national and international research alliances that foster interdisciplinary collaboration, knowledge exchange and scientific leadership. Through its involvement in CSIC platforms and networks, as well as other regional, national and international networks, CEAB helps drive research to address global environmental challenges. These collaborations strengthen the centre's impact, visibility and societal relevance, promote innovation, and support evidence-based policymaking and environmental management.

BlueNetCat

Is a collaborative network bringing together research institutions and other stakeholders to advance marine and inland water research in Catalonia. It promotes knowledge exchange, interdisciplinary research and innovation to address current challenges. The network fosters collaboration and supports the sustainable management of aquatic ecosystems. <https://www.blunetcat.eu/>



Participation in CSIC Platforms and Networks

The **Interdisciplinary Thematic Platforms (PTIs)** of CSIC are strategic initiatives that promote multidisciplinary research to address major social challenges. CEAB participates in several PTIs: **Oceans+**, focused on marine ecosystems and climate change; **ECOBIODIV**, dedicated to biodiversity and environmental data; **One Health**, addressing global environmental health challenges; and **SusPlast**, focused on plastics and the circular economy. Berta Bonet (CEAB-CSIC) coordinates CEAB's contribution to the plastics and inland water research working groups within the **SusPlast PTI**. More information: <https://novedades-ptis.csic.es/ptis/>



The **CSIC-HUBs Connections** are networks that promote interdisciplinary collaboration in emerging and frontier scientific areas. Through participation in the **Computational Biology and Bioinformatics Connection (BCB)**, CEAB integrates knowledge and resources in these fields at an institutional level. These initiatives foster training programmes, facilitate collaboration, and contribute to improving the analysis of biological data and its scientific and social impact. More information: <https://bcbhub.csic.es/>



Leadership in international networks



Aigüestortes i Estany de Sant Maurici National Park.

Source: LTER-Spain

Long Term Ecological Research Network



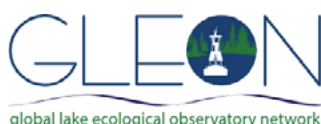
The **LTER-Spain** network promotes long-term ecological research across a wide range of ecosystems to better understand the impacts of global change and improve environmental management through the generation of long-term datasets on ecological processes and biodiversity. Esperança Gacia (CEAB) coordinates the Aigüestortes node, where ecosystem responses to global change are monitored in high-mountain environments, providing knowledge for evidence-based management and strengthening the resilience of mountain ecosystems to changing environmental conditions.

<https://lter-spain.csic.es/parque-nacional-de-aiguestortes-y-estany-de-sant-maurici/>



Researcher Rafael Marcé conducting fieldwork in the Onyar River.

Global Lake Ecological Observatory Network



The **Global Lake Ecological Observatory Network (GLEON)** is an international research network that brings together scientists and other stakeholders to advance understanding of lake ecosystems in the context of global change. The network uses high-frequency data collected by sensor systems and promotes collaborative research across institutions and countries. Rafael Marcé (CEAB) is one of the network's Co-Chairs, contributing to its scientific leadership and international coordination.

<https://gleon.org/>

European Marine Research Network



EuroMarine is an international interdisciplinary network that brings together European marine research organisations to foster collaboration, innovation and knowledge exchange in marine sciences. The network supports research activities, training programmes and evidence-based policy advice. Daniel Martin (CEAB) serves on the General Assembly and is a member of the Board Committee, contributing to the network's strategic direction and decision-making processes.

<https://euromarinenetwork.eu/>



European marine biodiversity, represented here by bottlenose dolphins at the sea surface, is a major focus of research and international scientific cooperation.

World Register of Marine Species



The **World Register of Marine Species (WoRMS)** is an open-access database providing an authoritative and continuously updated register of marine organisms, including accepted names, synonyms and taxonomic classifications. Its content is maintained by expert taxonomists, ensuring data quality and consistency while supporting research and biodiversity policy development. CEAB researchers Enrique MacPherson, Marc Rius and Xavier Turon contribute to WoRMS as **taxonomic editors**.

<https://www.marinespecies.org/>



A nudibranch described by a CEAB researcher (left), illustrating the diversity of species documented by marine taxonomy.

Research training and seminars

This chapter presents CEAB's contribution to research training, including doctoral and master's theses, advanced training activities, and the Scientific Seminar Programme.



Defended PhD and Master's theses

Training the next generation of professionals is an essential part of CEAB's activity and contributes to both scientific development and knowledge transfer. This section presents **data on the doctoral theses and master's dissertations defended during 2025**. Collaboration with universities is fundamental, as CSIC is not authorised to award university degrees.

22

Master's dissertations and PhD theses defended

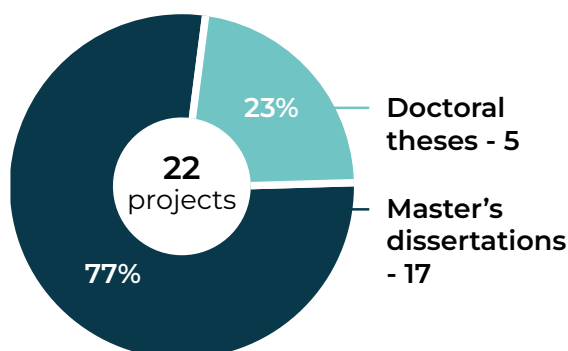
10

universities represented

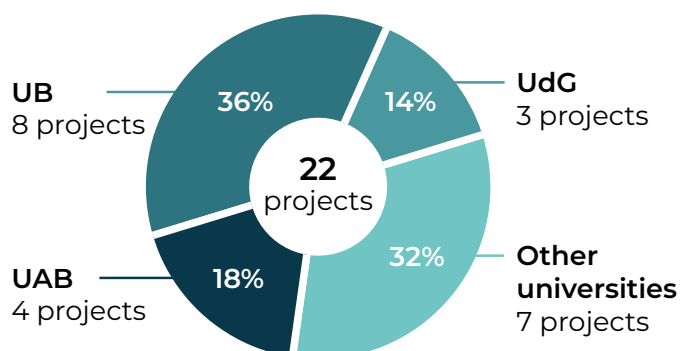
18

academic supervisors

Academic work by type



Academic work by university



*University of Barcelona (UB), Autonomous University of Barcelona (UAB), University of Girona (UdG),

Highlights

Award from the Iberian Association of Limnology (AIL)

The doctoral thesis of **Xavier Peñarroya**, "*Interactions between carbon and nitrogen cycles in Mediterranean headwater streams: from microbial communities to ecosystem scale patterns*", received an award from the **Iberian Association of Limnology (AIL)** for its contribution to advancing the understanding of biogeochemical processes in Mediterranean river ecosystems.

List of doctoral theses defended in 2025

Abourashed, A. (2025). **Making Public Health Public The role of surveys and citizen science in mosquito-borne virus prevention.** Supervisors: Bartumeus, F. (CEAB-CSIC), van Gorp, E. (Erasmus University of Rotterdam) https://pure.eur.nl/ws/portalfiles/portal/189647352/making_public_health_public_-_67ed8e81b98cb.pdf

Dekramanjan, B. (2025). **From Motivations to Mobilization Nudging, Regulatory Dispositions, and Citizen Science Engagement for Ecological and Public Health Monitoring.** Supervisors: Bartumeus, F. (CEAB-CSIC), Palmer, J. R. B. (UPF) <https://www.tdx.cat/handle/10803/697025#page=1>

Galobart, C. (2025). **Evaluating success in macroalgal forest restoration: indicators for biodiversity and functional recovery.** Supervisors: Cebrian, E. (CEAB-CSIC), Vergés, A. (UdG) <https://www.tdx.cat/handle/10803/694163#page=36>

Pardo, M. (2025). **Understanding the impact of climate and human mobility on the spread of invasive mosquito vectors and diseases** - Supervisors: Bartumeus, F. (CEAB-CSIC), Alonso, D. (CEAB-CSIC), Lázaro, J. T. (UPC) <https://upcommons.upc.edu/entities/publication/e2b80520-7307-4e20-8dbd-bb77f5427677>

Peñarroya, X. (2025). **Interactions between carbon and nitrogen cycles in Mediterranean headwater streams: from microbial communities to ecosystem scale patterns** Supervisors: Bernal, S. (CEAB-CSIC), Casamayor, E. O. (CEAB-CSIC), Sabater, F. (UB) <https://www.tdx.cat/handle/10803/697521#page=1>



Xavier Peñarroya during the defence of his doctoral thesis.

Organised courses and workshops

Training and scientific exchange activities aimed at fostering research and collaboration. These include courses, workshops and events for sharing knowledge and experiences organised by CEAB and hosted at its facilities.

Courses

Introduction to Artificial Intelligence Tools Applied to Aquatic Ecology

Part of the CSIC Training Programme

A course designed to explore practical AI tools for data analysis, image processing and process automation, with an introduction to their applications in research and aquatic ecology.

10 to 14 November 2025

Workshops and events

Ethics and Integrity in Research: Building Trust

Meeting with Txetxu Ausín, Chair of the CSIC Ethics Committee.

20 February 2025

Celebrating The Launch Of The Department Of Ecology And Complexity

Presentation event for the new Department of Ecology and Complexity, led by Ricard Solé.

03 April 2025

CSIC-Catalonia Science Communication Meeting

A day dedicated to exchanging experiences and best practices in science communication among CSIC centres in Catalonia.

6 May 2025

ERC 2026: Calls, Updates and Support Opportunities

Workshop on the ERC 2026 calls and available support resources, delivered by the CSIC Vice Presidency for International Relations

18 September 2025

Talk by Dr Dolors Planas

Discussion with Dr Dolors Planas (Université du Québec, Canada, Emerita) on professional experience and career pathways in scientific research.

31 October 2025

JO-CEAB

A scientific exchange forum for sharing projects and lines of research currently underway across the Centre's different groups and departments.

16 December 2025

Tribute to Enric “Kike” Ballesteros

An event held in memory and recognition of Enric “Kike” Ballesteros, with participation from members of the scientific community highlighting contributions and impact on research.

2 December 2025

One of the round tables at the “Kike” Ballesteros tribute event.

Credit: C. Auladell / CEAB



Seminars programme

During 2025, CEAB has organised and hosted **16 seminars** featuring both internal and external speakers from national and international institutions. The seminar programme has helped bring new research lines, methodologies, tools and perspectives developed in other scientific institutions and contexts to the Centre, **fostering knowledge exchange and enriching the research community**. The sessions have covered a wide range of topics, reflecting the interdisciplinary nature of CEAB's research.

From ocean waves to data waves: Advancing seabird ecology and wildlife management through quantitative ecology

Virginia Morera-Pujol (Lab of Wildlife Ecology and Behaviour, University College Dublin, Ireland)

08 January 2025

Understanding the function of whole river networks to control material fluxes

Will Wollheim (Department of Natural Resources and Environment, University of New Hampshire, USA)

16 January 2025

Trash In Streams: Abundance, Movement, And Biological Interactions Across Spatial Scales

Tim Hoellein (Department of Biology, Loyola University Chicago, USA)

06 March 2025

Spatial Aggregation, Animal Seed Dispersal And Forest Dynamics

Thorsten Wiegand (Dep. of Ecological Modelling, Helmholtz Centre for Environmental Research (UFZ), German Centre for Integrative Biodiversity Research (iDiv, Germany)

12 March 2025

Lifewatch Eric: Advancing E-Science For Biodiversity & Ecosystem Research

Christos Arvanitidis (LifeWatch European Research Infrastructure Consortium)

09 April 2025

Anthropogenic Subsidies In River Networks: Ecosystem-Level Implications Of Enhanced Wastewater Management

Krista Capps (Odum School of Ecology, University of Georgia, USA)

24 April 2025

Signatures Of Criticality In The Collective Decisions Of Social Animal Groups

M. Carmen Miguel (University of Barcelona, Spain)

25 April 2025

Shedding Light On The Aquatic Nitrogen Puzzle: Photochemical Production Of Nitrous Oxide

Elizabeth León Palmero (Department of Geosciences, Princeton University, USA)

12 June 2025

A Global Palaeoecological Analysis Of Island Biodiversity

Sandra Nogué Bosch (Centre for Ecological Research and Forestry Applications, Autonomous University of Barcelona, Spain)

10 July 2025



Enric “Kike” Ballesteros auditorium.

Credit: C. Auladell / CEAB

Connecting Field Science With Satellite Monitoring: Skytruth X Ceab Interactive Seminar

Bimini Horstmann (Skytruth Impact Analyst. CEAB Master's Thesis Candidate)

24 July 2025

Impacts of changing coral reef ecology on reef growth and biogenic sediment production

Chris Perry (University of Exeter)

09 October 2025

Blue carbon and the landscape of climate change solutions for the ocean

Rohan Arthur (Nature Conservation Foundation, India. CEAB)

06 November 2025

Scientific Vs. Technical Challenges In Microbial Ecology: Which Drives Which?

Jim Prosser (Aberdeen University, Scotland)

03 September 2025

Marine biodiversity change across millennia – Two fishy tales from sediment cores

Luke Holman (University of Copenhagen, Denmark)

03 November 2025

Mapping the Entangled Webs of Nature: Tools and concepts to quantify ecological interactions across Systems

David García-Callejas (University of Graz, Austria)

13 November 2025

Stable isotopes as tracers of ecological change: Reconstructing past baselines and characterizing contamination niches in aquatic systems

Thomas Larsen (Kiel University)

28 September 2025



Kiel University
Christian-Albrechts-Universität zu Kiel



CEAB in society

This chapter presents CEAB's initiatives in science communication, public engagement and citizen science, aimed at reaching decision-makers, public and private organisations, and society at large.



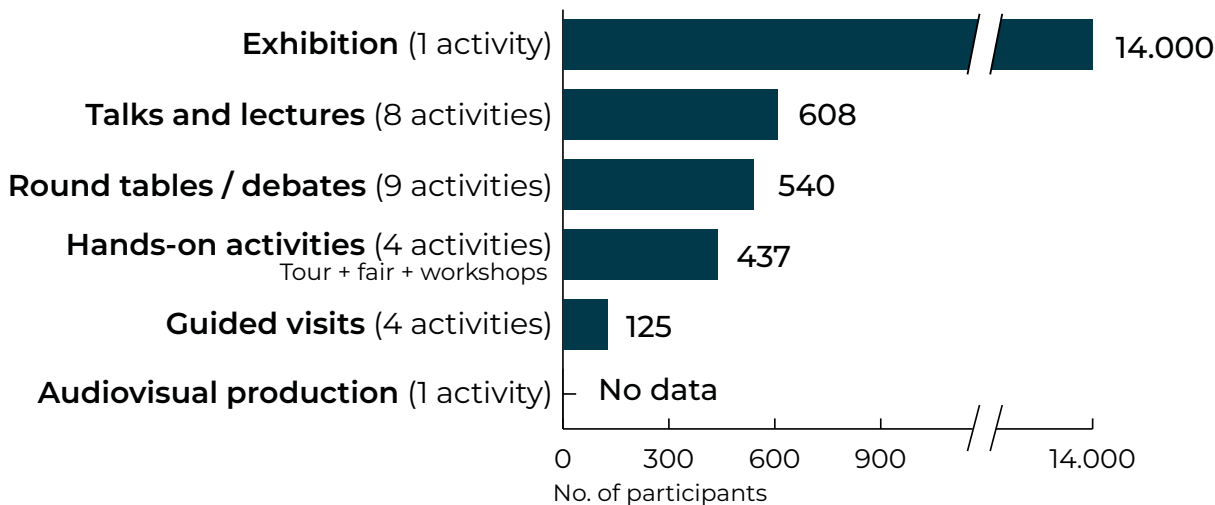
Scientific culture and science communication: key figures

At CEAB, science culture and science communication are regarded as essential pathways for connecting science with society. Through strategic plans, activities are designed to foster dialogue, outreach and engagement with diverse audiences in order to encourage collaboration and maximise the societal impact of research. During 2025, the Centre has continued to strengthen its national and international profile. Particular progress has also been made in internal communication, further reinforcing external engagement and visibility

Science culture activities in 2025



Participation by activity type



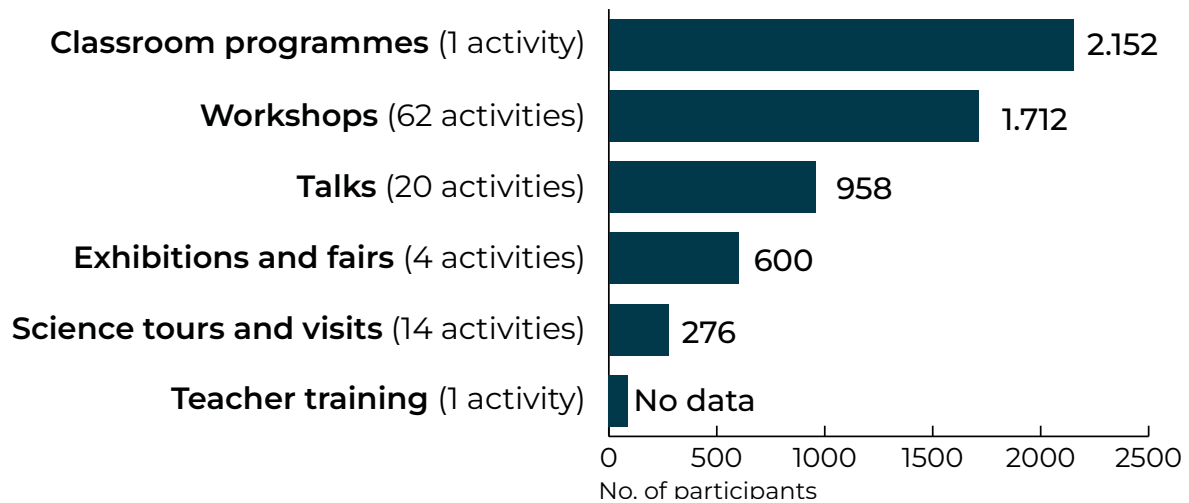
The science communication activities carried out during 2025 have combined a variety of formats to broaden the social reach of research and create spaces for dialogue with citizens. The weight of talks, round tables and hands-on activities reflects a participatory and face-to-face approach, while guided visits have fostered more direct engagement with the public. The exhibition has been the activity with the widest impact, and collaboration with partner institutions has helped expand audiences and strengthen alliances.

The Centre participates in major science engagement initiatives, including the European Researchers' Night and the Science Week, while organising its own activities and strengthening its visibility through leading programmes at national and European level.

Science education activities in 2025

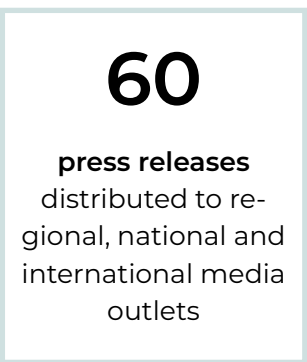
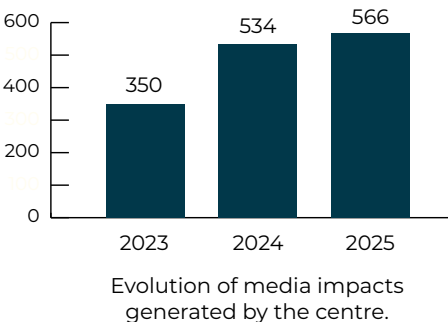


Participation by activity type



During 2025, science education activities have consolidated a model that combines experiential formats and educational programmes in the classroom, with a clear expansion of territorial reach. The predominance of workshops, scientific trails and visits reflects a commitment to active and direct learning in research settings, complemented by talks, exhibitions and fairs. At the same time, educational programmes promoted by research groups, based on their own research themes, have strengthened the Centre's influence within the educational system. These activities have been delivered both at CEAB and in educational institutions, as well as through CSIC programmes and major science engagement initiatives.

Press releases and media coverage in 2025



During 2025, CEAB has increased its presence in Spanish and international media

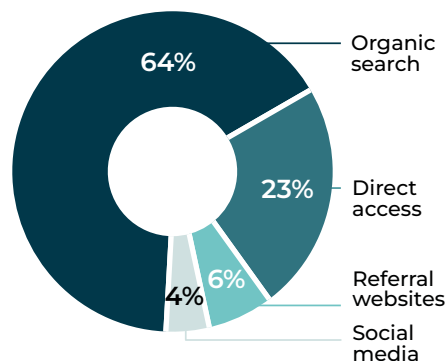
Reach of digital communication in 2025



14.524 active/unique users
29.841 sessions

↑70%
compared with 2024

Users have mainly been based in Spain, reflecting the Centre's strong visibility at national level. At the same time, international traffic has increased, particularly from several European and American countries.

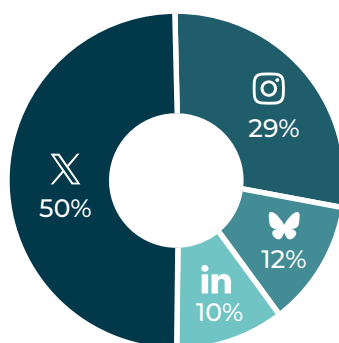


Sources of website traffic

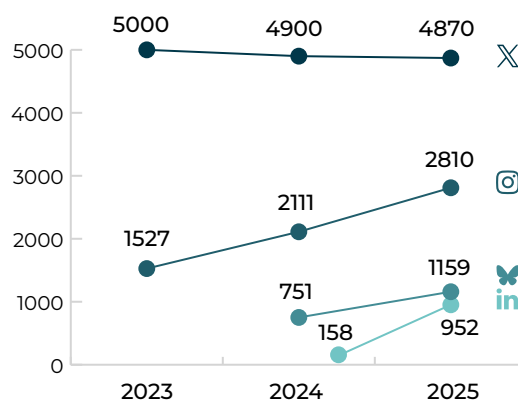
Social media

~9800

followers across
social media in
2025



Share of total followers



Growth in followers

Although X continues to account for a significant share of followers, growth has slowed due to reduced activity and engagement on the platform. In contrast, channels such as Bluesky and LinkedIn, recently created or reactivated, have grown considerably, while Instagram remains the platform generating the highest levels of engagement.

Strengthening internal communication

During 2025, progress has been made in implementing a plan aimed at improving communication within the Centre, both across teams and among staff with different roles and responsibilities. These efforts have promoted a culture of transparency, fairness and cohesion. The programme has also helped improve organisational efficiency and facilitate the flow of information. Thanks to support provided through the MaX-CSIC Programme, a range of initiatives have been launched, including internal newsletters, dialogue forums, coordination activities and the promotion of interdisciplinary work. Together, these actions are contributing to strengthening the Centre's capacity for external communication.



Featured initiatives



Illustration from the cover of the storybook.

Credit: Roser Cussó. CC BY-SA

Enhanced Ecotales: Climate, Water and Women

This project offers an innovative approach to research on freshwater ecosystems and the climate emergency by incorporating a gender perspective. Through eight illustrated stories featuring water and women as central themes, the initiative combines science, art, literature and augmented reality to address environmental challenges in an accessible and engaging way while fostering critical thinking.

The project is complemented by a teaching guide and teacher training materials designed to explore climate change and ecofeminism in the classroom. Since 2024, it has reached more than 2,000 students and 100 teachers, establishing itself as an educational initiative that brings together scientific knowledge, creativity and social justice.

CEAB Researchers Night 2025: Ecology and Complex Systems

The 2025 edition of European Researchers' Night at CEAB focused on ecology and complex systems, introducing the public to research areas linked to modelling and the study of interactions in nature. Through thematic stations led by researchers, participants were able to explore key concepts and approaches in these fields, presented in an engaging and accessible way.

The event attracted 140 participants and further consolidated CEAB Researcher Night as a science outreach initiative that strengthens dialogue between research and society while promoting a more approachable, participatory and accessible model of science communication.



Researcher Frederic Bartumeus during the presentation of the event.

Credit: E. Mora / CEAB

“Memories of a Sea” Documentary Forums: Collaboration and National Outreach

To mark World Water Day, CEAB co-organised with Casa Asia and the CSIC delegations in Madrid and Catalonia two documentary forums on the desiccation of the Aral Sea, held in Madrid and Barcelona. The events combined screenings of the documentary *Memories of a Sea* with round-table discussions involving the film director and CEAB researchers who participated in the scientific expedition.

The initiative stood out for the interinstitutional collaboration it generated and for bringing the Centre’s research to new audiences. By combining visual storytelling with scientific dialogue, the format connected research with society and encouraged reflection on climate change and sustainable water management. Together, the two events attracted 215 participants, demonstrating strong public interest in these initiatives.



Scene from the documentary *Memories of a Sea*, showing fieldwork conducted by the scientists featured in the film.

© L. Carrau

Recognition in Science Communication

Science communication materials developed around CEAB research on the Aral Sea have received several distinctions. Notably, the article “El darrer alè del Mar d’Aral” (*The Last Breath of the Aral Sea*), published in *Mètode* magazine by CEAB researcher Rafael Marcé and documentary director Laura Carrau, received an Honourable Mention at the Prismas Science Communication Awards. <https://metode.cat/noticies/premis-prismas-reportatge-metode.html>

CEAB’s Contribution to CSIC Staff Training

As part of the CSIC Science Education Working Group, CEAB’s Scientific Culture Unit has participated in planning and coordinating the course “Tools and Learning Resources for Science Communication and Outreach”, aimed at CSIC staff. The course brought together 50 participants, fostering collaboration and exchange at institutional level. Delivered online for education professionals, it adopted a practical approach focused on the design and implementation of educational activities.

Citizen science initiatives



Fieldwork using mosquito sampling equipment.

Credit: E. Mora / CEAB

Mosquito Alert

An initiative focused on the epidemiological surveillance of disease vectors through the use of digital technologies and artificial intelligence. It combines expert validation with citizen participation to monitor invasive mosquito species, based on more than 190,500 global records from 183 countries. The project enables early detection and spatio-temporal analysis, with applications in public health and the control of mosquito-borne diseases.

Website: <https://www.mosquitoalert.com/ca/>



Common frog (*Rana Temporaria*)

Credit: M. Ventura / CEAB

LIFE RESQUE ALPYR

This project promotes citizen participation in the collection of data on aquatic flora and fauna in high-mountain ponds through the iNaturalist platform. The observations contributed complement scientific research, facilitating the monitoring of priority species and the conservation of vulnerable ecosystems within Natura 2000 areas.

Website: <https://liferesquealpyr.eu/ca/>



Survey of marine forests using snorkelling transects at Cala Estreta (Palamós)

Credit: C. Auladell / CEAB

Observadores del Mar (Sea Observers)

A citizen science platform that promotes research and marine conservation through public participation. Community-generated observations help detect changes in marine ecosystems, such as the appearance of invasive species or episodes of mass mortality, while also improving public understanding and awareness of marine biodiversity.

Website: <https://www.observadoresdelmar.es/>

Selected media highlights

Media and social media presence are regarded as important channels for increasing the societal impact of research. Guided by CEAB's external communication strategy, these activities promote two-way dialogue with different audiences and foster collaboration with public administrations, organisations, the private sector and society as a whole.



“The Invisible Desert Microbes That Dominate Southern European Skies and Their Global Impact”

April 2025

Article on the dispersal of microorganisms originating from the Sahara through the upper atmosphere, and their impacts at different spatial scales.

<https://www.fundacionmuyinteresante.org/microbios-invisibles-del-desierto-microorganismos.html>

EL PAÍS

“The Relentless Army of Clones of the Invasive Asian Alga Ravaging the Spanish Coastline”

June 2025

Feature article on the spread of an invasive Asian alga and its ecological and socio-economic consequences.

<https://elpais.com/clima-y-medio-ambiente/2025-06-18/el-imparable-ejercito-de-clones-del-alga-asiatica-invasora-que-arrasa-el-litoral-espanol.html>

europa press

“The Earliest Evidence of Human Use of Marine Plants Dates Back 180,000 Years, According to a Study”

February 2025

News item covering research on the historical and present-day uses of marine plants.

<https://fotos.europapress.es/fotonoticia/f6608981>



RNE Cat - "Diga-li ciència"

"Teresa Alcoverro, marine ecology specialist at CEAB: Coral reefs"

November 2025

Interview on the impacts of climate change on coral reef ecosystems.

<https://www.rtve.es/play/audios/diga-li-ciencia/teresa-alcoverro-biologa-especialitzada-ecologia-marina-ceab-esculls-coral/16796120/>



TV3, 3Cat and Catalunya Radio

"Gorgonian forests in the Mediterranean successfully regenerated by grafting dead branches"

February 2025

News report on a new technique for gorgonian restoration.

<https://www.3cat.cat/3catinfo/regeneren-amb-exit-bosc-de-gorgonies-a-les-medes-podant-ne-les-branques-mortes/noticia/3333796/>

THE CONVERSATION

"Human connections to seagrass meadows"

April 2025

Article exploring the many ways in which seagrass meadows have provided benefits to human societies throughout history.

<https://theconversation.com/human-connections-to-seagrass-meadows-date-back-180-000-years-study-reveals-253307>



"We can follow a drop of water from the Pyrenees all the way to the sea"

January 2025

Interview with the Director and Deputy Director of CEAB on the centre's evolution and its current research on aquatic ecosystems.

<https://www.elpuntavui.cat/societat/article/15-ciencia/2494000-podem-seguir-una-gota-d-aigua-del-pirineu-fins-al-mar.html>



“Fishermen’s discontent”

January 2025

Interview with researcher Emma Cebrian on European restrictions affecting bottom-trawl fisheries.

<https://www.rfi.fr/fr/podcasts/accents-d-europe/20250127-profession-guide-%C3%A0-auschwitz>



“The shortening of lake ice-cover duration in boreal lakes increases their contribution to the climate crisis”

May 2025

Feature on the role of lakes in climate regulation and climate change.

<https://prensamercosur.org/2025/05/31/la-reduccion-del-periodo-de-congelacion-en-lagos-boreales-dispara-su-contribucion-a-la-tesis-climatica/>

la Repubblica

“Discovery in the Gulf of Naples of a new animal species: the ‘Mona Lisa’ of sea dragons”

July 2025

News report on the discovery of a new sea-slug species previously unknown to science.

<https://prensamercosur.org/2025/05/31/la-reduccion-del-periodo-de-congelacion-en-lagos-boreales-dispara>



“The Catalan Water Agency, the El Baix Llobregat Regional Council, CSIC and AstraZeneca launch a project to improve the Rubí Stream”

October 2025

Feature on collaboration between public authorities, private partners and research and management professionals to support the ecological restoration of rivers and streams.

<https://www.elperiodico.com/es/barcelona/20251016/genera-litat-csic-astrazeneca-alian-mejorar-calidad-agua-riera-rubi-marismas-artificiales-122688121>

“Catalonia eliminates fish from Pyrenean lakes to restore ecosystems”

September 2025

Report on a pilot trial using biodegradable rotenone in the Pyrenees to restore high-mountain lakes and ponds.

<https://www.elperiodico.com/es/sociedad/20250902/bioci-da-organico-eliminar-peces-lago-pirineos-121126315>

“Ants interact through a liquid brain”

August 2025

CEAB research showing how ants interact through a “collective fluid” to achieve collective efficiency.

<https://www.rtve.es/play/audios/a-golpe-de-bit/golpe-bit-hormigas-interaccionan-gracias-cerebro-liquido/16703062/>

“The ‘blue forest’ in figures: First global inventory of carbon stored by seagrass meadows”

November 2025

Article on the first global inventory of carbon captured and stored by seagrass meadows.

<https://phys.org/news/2025-11-blue-forest-figures-global-carbon.html>

Selected social media highlights

in <https://bit.ly/4ykhmvN>



🦋 <https://bit.ly/4aRLVPz>



📷 <https://bit.ly/4pgNcWn>





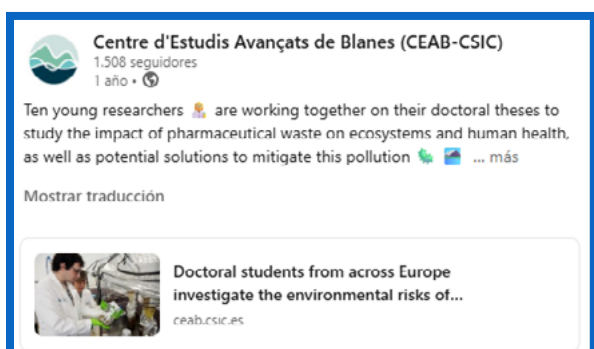
<https://bit.ly/3R81rjG>



<https://bit.ly/4fc9806>



<https://bit.ly/44tXGIh>



Looking ahead

2026 will be a pivotal year for the full implementation of the MaX-CSIC Programme, an initiative designed to **promote structural improvements** across research institutes with the aim of strengthening scientific excellence and positioning them to achieve **national and international accreditation of excellence**. This year will be marked by the implementation of actions arising from the self-assessment process and by the alignment of our scientific and organisational priorities with international standards of quality and excellence.

One of our main priorities will be to consolidate **CEAB's global leadership** in aquatic ecology, strengthening **cross-cutting research lines** that connect mountain ecosystems with coastal marine systems. This integrated perspective, spanning from river headwaters to the deepest ocean environments, will continue to be a distinctive feature of the Centre and a **unique contribution to the international scientific landscape**, particularly in understanding the **impacts of global change and ecosystem resilience**.

At the same time, we will deepen our commitment to **institutional consolidation**. We will strengthen the role of the External Scientific Advisory Committee as a tool for evaluation and strategic guidance. In addition, we will optimise research support services, and continue **simplifying internal processes to facilitate scientific activity and reduce administrative burdens**. Particular attention will be given to improving working conditions and professional recognition for technical and support staff, which are essential foundations for ensuring the quality and sustainability of our research.

We will also continue to promote **knowledge transfer and the development of evidence-based solutions**, with the explicit aim of increasing the **positive societal impact** of our work.

Finally, we reaffirm our commitment to conducting research in **fair, ethical, sustainable and healthy working environments**. We will continue fostering participation, equal opportunities and an **open, responsible and socially engaged scientific culture**.

With this shared vision, we look to the future with a sense of responsibility and confidence that the knowledge generated at CEAB will continue to make a decisive contribution to the **understanding and preservation of aquatic ecosystems** in a context of **global change**.

CEAB Management Team and Research Promotion Team

Photograph of the event commemorating CEAB's 40th anniversary.



Appendix: exhaustive lists

Scientific publications

SCIENTIFIC ARTICLES

- Abourashed, A., Cerecedo-Iglesias, C., Dellar, M., Palmer, J. R. B., & Bartumeus, F. (2025). Spatial inference of *Culex pipiens* abundance and biting activity distribution in the Netherlands using citizen science. *Parasites & Vectors*, 18(1), 162. <https://doi.org/10.1186/s13071-025-06774-3>
- Alacid, E., Reñé, A., Timoneda, N., & Garcés, E. (2025). Macroalgal Biofilm Harbours a Wide Diversity of Parasitic Protists With Distinct Temporal Dynamics. *Molecular Ecology*, 34(5), e17666. <https://doi.org/10.1111/mec.17666>
- Alberola-Mora, I., Guerra-Font, O., Espinoza-Calderón, O. D., Galià-Camps, C., & Džunková, M. (2025). Combination of Sample Preservation Approaches and DNA Extraction Methods for Long-Read Sequencing of Nudibranchs' Genomes. *Ecology and Evolution*, 15(4), e71262. <https://doi.org/10.1002/ece3.71262>
- Almeida, L., Bellver-Arnau, J., Peltier, G., & Vauchelet, N. (2025). Optimal strategies for *Wolbachia* mosquito replacement technique: Influence of the carrying capacity on spatial releases. *ESAIM: Control, Optimisation and Calculus of Variations*, 31, 57. <https://doi.org/10.1051/cocv/2025044>
- Álvarez-Campos, P., Lattig, P., Turon, M., Martín, G. S., Buckley, D., Britayev, T. A., Martin, D., & Machordom, A. (2025). Evolution of *HAPLOSYLIS* (Syllidae, Annelida) With Emphasis on the Indo-Pacific Region and the *DJIBOUTIENSIS* Species Complex. *Zoologica Scripta*, 54(5), 684-707. <https://doi.org/10.1111/zsc.12730>
- Astruch, P., Boudouresque, C.-F., Cabral, M., Schohn, T., Ballesteros, E., Bellan-Santini, D., Belloni, B., Bianchi, C. N., Cassetti, O., Chevaldonné, P., Fourn, M., Guidetti, P., Hartmann, V., Jacob, É., Le Diréach, L., Michez, N., Montefalcone, M., Morri, C., Nérini, D., ... Verlaque, M. (2025). An ecosystem-based index for Mediterranean coralligenous reefs: A protocol to assess the quality of a complex key habitat. *Marine Pollution Bulletin*, 220, 118375. <https://doi.org/10.1016/j.marpolbul.2025.118375>
- Baba, K., Macpherson, E., & Rodríguez-Flores, P. C. (2025). New records of the squat lobster genus *Uroptychus* (Crustacea: Decapoda: Anomura: Chirostylidae) from West Africa: unexpected occurrence of the western Atlantic species *U. nitidus* (A. Milne Edwards, 1880) and description of a new species. *Zootaxa*, 5627(1), 128-146. <https://doi.org/10.11646/zootaxa.5627.1.4>
- Ballesteros†, E., De Caralt, S., & Cebrian, E. (2025). Back from Presumed Local Extinction: The Case of *Sargassum hornschurchii* C. Agardh (Fucales: Heterokontophyta) in the Spanish Mediterranean. *Cryptogamie, Algologie*, 46(6). <https://doi.org/10.5252/cryptogamie-algologie2025v46a6>
- Bellver-Arnau, J., Blanco-Sierra, L., Escartin, S., Mariani, S., & Bartumeus, F. (2025). Climate-responsive vector control strategies for *Aedes albopictus*. *Parasites & Vectors*, 18(1), 168. <https://doi.org/10.1186/s13071-025-06791-2>
- Bernal, S., Ledesma, J. L. J., Peñarroya, X., Jativa, C., Catalán, N., Casamayor, E. O., Lupon, A., Marcé, R., Martí, E., Triadó-Margarit, X., & Rocher-Ros, G. (2025). Expanding towards contraction: The alternation of floods and droughts as a fundamental component in river ecology. *Biogeochemistry*, 168(1), 11. <https://doi.org/10.1007/s10533-024-01197-1>

- Bondarenko, S., Obiol, A., Casamayor, E. O., & Massana, R. (2025). Non-Dikarya Fungal Clades Are Everywhere: What 18S rRNA Gene Metabarcoding Reveals About Cross-System Distribution of Fungi. *Microbial Ecology*, 89(1), 4. <https://doi.org/10.1007/s00248-025-02642-w>
- Botha, T. P. A., Griffiths, C. L., Atkinson, L. J., & Macpherson, E. (2025). The Galatheidae (Anomura: Galatheoidea) of South Africa, with a description of a new species. *Zootaxa*, 5661(3), 330-350. <https://doi.org/10.11646/zootaxa.5661.3.2>
- Britayev, T. A., Buyanovsky, A. I., Merkin, V. A., Nguyen, T. H. T., & Martin, D. S. (2025). Shaping population structure in the coral associated crab *Trapezia septata*: The role of migration and residency. *Aquatic Ecology*, 59(4), 1283-1297. <https://doi.org/10.1007/s10452-025-10225-7>
- Cáliz, J., Menéndez-Serra, M., Triadó-Margarit, X., Avila, A., & Casamayor, E. O. (2025). Persistent Desert Microbiota in the Southern European Sky. *Environmental Microbiology*, 27(2), e70046. <https://doi.org/10.1111/1462-2920.70046>
- Cano-Barbacid, C., Bowler, D. E., Ballesteros-Pelegrín, G. A., Bertolero, A., Deneudt, K., Genovart, M., Gómez-Serrano, M. Á., Hernández-Navarro, A. J., Oro, D., Zamora-López, A., & Haase, P. (2025). Almost Seven Decades of Coastal Bird Community Recovery Across Three European Seas. *Global Change Biology*, 31(11), e70623. <https://doi.org/10.1111/gcb.70623>
- Capa, M., Martínez, A., Pons, J., Gil, J., & Martin, D. (2025). Thriving in the dark: A new record and new species of Annelida (Lamarck, 1802) from a Balearic anchialine cave (Western Mediterranean Sea). *Mediterranean Marine Science*, 26(4), 775-794. <https://doi.org/10.12681/mms.40733>
- Capitán, J. A., & Alonso, D. (2025). Out-of-equilibrium inference of feeding rates through population data from generic consumer-resource stochastic dynamics. *Applied Mathematics and Computation*, 500, 129434. <https://doi.org/10.1016/j.amc.2025.129434>
- Carlot, J., Galobart, C., Gómez-Gras, D., Santamaría, J., Golo, R., Sini, M., Cebrian, E., Gerovasileiou, V., Ponti, M., Turicchia, E., Comeau, S., Rilov, G., Tamburello, L., Pulido Mantas, T., Cerrano, C., Ledoux, J. B., Gattuso, J.-P., Ramirez-Calero, S., Millan, L., ... Teixidó, N. (2025). Vulnerability of benthic trait diversity across the Mediterranean Sea following mass mortality events. *Nature Communications*, 16(1), 1571. <https://doi.org/10.1038/s41467-025-55949-0>
- Charnley, G. E. C., Alcayna, T., Almuedo-Riera, A., Antoniou, C., Badolo, A., Bartumeus, F., Boodram, L.-L., Bueno-Marí, R., Codeço, C., Codeço Coelho, F., Costa, F., Cox, H., Haddad, N., Hamid, N. A., Kittayapong, P., Korukluoğlu, G., Michaelakis, A., Maciel-de-Freitas, R., Montalvo, T., ... Lowe, R. (2025). Strengthening resilience to emerging vector-borne diseases in Europe: Lessons learnt from countries facing endemic transmission. *The Lancet Regional Health - Europe*, 53, 101271. <https://doi.org/10.1016/j.lanepe.2025.101271>
- Corley, M. K., Cosme, L. V., Armbruster, P. A., Beebe, N., Bega, A., Boyer, S., Caputo, B., Chen, C., Crawford, J. E., Della Torre, A., Eritja, R., Fontaine, M. C., Gill, R. J., Huynh, T., Kadriaj, P., Maringer, K., Martins, A. J., Maynard, A., Mukherjee, S., ... Caccone, A. (2025). Population Structure of the Invasive Asian Tiger Mosquito, *Aedes albopictus*, in Europe. *Ecology and Evolution*, 15(3), e71009. <https://doi.org/10.1002/ece3.71009>
- Cortazar-Chinarro, M., Richter-Boix, A., Halvarsson, P., Palomar, G., & Bosch, J. (2025). Major histocompatibility complex modulation of *Batrachochytrium dendrobatidis* and *Ranavirus* infections in amphibians. *Journal of Evolutionary Biology*, 38(12), 1678-1689. <https://doi.org/10.1093/jeb/voaf112>

- Dakos, V., Le Vilain, A., Thebault, E., Alcoverro, T., Boada, J., Infantes, E., Krause-Jensen, D., Marbà, N., Serrano, O., Vizzini, S., & Apostolaki, E. T. (2025). Carbon storage of seagrass ecosystems may experience tipping points in response to anthropogenic stress—A modeling perspective. *Frontiers in Complex Systems*, 3, 1534330. <https://doi.org/10.3389/fcpxs.2025.1534330>
- De Gracia, C., Oro, D., Ubach, A., Jubany, J., & Stefanescu, C. (2025). Grazing and mowing practices drive complex dynamics in the structure of butterfly communities in semi-natural grasslands. *Insect Conservation and Diversity*, 18(4), 617-629. <https://doi.org/10.1111/icad.12828>
- De Sosa, I., Turon, M., Taboada, S., Lorente-Sorolla, J., Fernández, R., Tilikj, N., Piris, A., Novo, M., Álvarez Campos, P., & Riesgo, A. (2025). No Mate, No Problem: Molecular Mechanisms Involved in Parthenogenesis in the Cosmopolitan Earthworm *Aporrectodea trapezoides* (Annelida, Clitellata). *Molecular Ecology*, 34(16), e70010. <https://doi.org/10.1111/mec.70010>
- Dey, M., Alcoverro, T., Gómez, C., Kelkar, N., Pagès, J. F., Pinto, W., Yadav, S., Karkarey, R., Gangal, M., Ibrahim, M. K., Lobo, A., D'Souza, E., Patankar, V., Idrees Babu, K. K., & Arthur, R. (2025). Local Environmental Filtering and Frequency of Marine Heatwaves Influence Decadal Trends in Coral Composition. *Diversity and Distributions*, 31(7), e70043. <https://doi.org/10.1111/ddi.70043>
- Diga Darmon, N., Diga, R., Marom, R., Burgues, I., Ribes, M., Wurgajt, E., Silverman, J., Coma, R., & Yahel, G. (2025). Continuous determination of dissolved inorganic carbon fluxes from pumping suspension feeders. *Limnology and Oceanography: Methods*, 23(12), 886-904. <https://doi.org/10.1002/lom3.10721>
- Dornelas, M., Antão, L. H., Bates, A. E., Brambilla, V., Chase, J. M., Chow, C. F. Y., Fontrodona-Eslava, A., Magurran, A. E., Martins, I. S., Moyes, F., Sagouis, A., Adu-Acheampong, S., Acquah-Lampsey, D., Adam, D., Ajani, P. A., Albaina, A., Almaraz, P., An, J., Anderson, R. S., ... Zvuloni, A. (2025). BioTIME 2.0: Expanding and Improving a Database of Biodiversity Time Series. *Global Ecology and Biogeography*, 34(5), e70003. <https://doi.org/10.1111/geb.70003>
- Duarte, C. M., Apostolaki, E. T., Serrano, O., Steckbauer, A., & Unsworth, R. K. F. (2025). Conserving seagrass ecosystems to meet global biodiversity and climate goals. *Nature Reviews Biodiversity*, 1(3), 150-165. <https://doi.org/10.1038/s44358-025-00028-x>
- Eritja, R., Sanpera-Calbet, I., Delacour-Estrella, S., Ruiz-Arrondo, I., Puig, M. À., Bengoa-Paulís, M., Alarcón-Elbal, P. M., Barceló, C., Mariani, S., Martínez-Barciela, Y., Bravo-Barriga, D., Polina, A., Pereira-Martínez, J. M., González, M. A., Escartin, S., Melero-Alcíbar, R., Blanco-Sierra, L., Magallanes, S., Collantes, F., ... Bartumeus, F. (2025). Integrating Citizen Science and Field Sampling into Next-Generation Early-Warning Systems for Vector Surveillance: Twenty Years of Municipal Detections of *Aedes* Invasive Mosquito Species in Spain. *Insects*, 16(9), 904. <https://doi.org/10.3390/insects16090904>
- Falk, M., Garriga, J., Eritja, R., Sanpera-Calbet, I., Pou, E., Richter-Boix, A., Palmer, J. R. B., & Bartumeus, F. (2025). Augmenting community-driven vector surveillance with automated image classification: Lessons from the Artificial Intelligence Mosquito Alert (AIMA) system. *Epidemics*, 53, 100863. <https://doi.org/10.1016/j.epidem.2025.100863>
- Fernández-López, P., Oro, D., Lloret-Cabot, R., Genovart, M., Garriga, J., & Bartumeus, F. (2025). Foraging ants as liquid brains: Movement heterogeneity shapes collective efficiency. *Proceedings of the National Academy of Sciences*, 122(31), e2506930122. <https://doi.org/10.1073/pnas.2506930122>
- Foster, N. R., Gomis, E., Montemayor, D. I., Strydom, S., Mateo, M. A., Serrano, E., Ricart, A. M., Dahl, M., Mazarrasa, I., Cister-

- nas, P., Whiteley, H., Bates, E. J., Puigcorb , V., Moreda, U., Truc, M., Inostroza, K., Huertas, R., McCallum, R., Lafratta, A., ... Serrano, O. (2025). Global Patterns and Drivers of Seagrass Biomass, Net Primary Production and Meadow Structure. *Journal of Biogeography*, 52(11), e70041. <https://doi.org/10.1111/jbi.70041>
- Francescangeli, M., Toma, D. M., Mendizabal, V., Carandell, M., Martinez, E., Martin, D., Mura, M. P., Aguzzi, J., Gil Espert, L., & Del Rio, J. (2025). Artificial reef based ecosystem design and monitoring. *Ecological Engineering*, 221, 107752. <https://doi.org/10.1016/j.ecoleng.2025.107752>
- Frox n-Grabalosa, J., Mariani, S., Cerecedo-Iglesias, C., Richter-Boix, A., Torner, A. O., Pla, M., Brotons, L., & Bartumeus, F. (2025). Ecological drivers of arboviral disease risk: Vector-host interfaces in a Mediterranean wetland of Northeastern Spain. *PLOS Neglected Tropical Diseases*, 19(8), e0013447. <https://doi.org/10.1371/journal.pntd.0013447>
- Gali -Camps, C., Engu danos Garc a, A., Cobb-Fletcher, J., Garcia, E. F., & Vald s,  . (2025). Insights into the phylogeny and evolution of the genus *Dendrodoris* (Mollusca: Nudibranchia) with the description of a new deep-sea species. *Organisms Diversity & Evolution*, 25(3-4), 365-380. <https://doi.org/10.1007/s13127-025-00672-3>
- Gali -Camps, C., Schell, T., Pegueroles, C., Baranski, D., Ben Hamadou, A., Horaud, M., Antich, A., Turon, X., Pascual, M., Greve, C., & Carreras, C. (2025). De novo genome assembly, inversion detection, and worldwide adaptation on the invasive species *Styela plicata*. *Scientific Reports*, 15(1), 40328. <https://doi.org/10.1038/s41598-025-24574-8>
- Gallardo Salamanca, M. D. L.  ., Asorey, C., & Macpherson, E. (2025). A new species of Galathea (Decapoda, Galatheid ) from the seamounts of the Easter Island area (Southeast Pacific Ocean Ridge) associated with a sea urchin. *ZooKeys*, 1248, 111-123. <https://doi.org/10.3897/zookeys.1248.159542>
- Galobart, C., Sitj , C., De Caralt, S., Santamar a, J., Verg s, A., Boada, J., & Cebrian, E. (2025). Oxygen and PH fluxes in shallow bay habitats: Evaluating the effectiveness of a macroalgal forest restoration. *Journal of Phycology*, 61(1), 20-33. <https://doi.org/10.1111/jpy.13520>
- Galobart, C., Zarcero, J., Antich, A., Turon, X., & Cebrian, E. (2025). Metabarcoding identifies macroalgal composition as a driver of benthic invertebrate assemblages in restored habitats. *Scientific Reports*, 15(1), 9817. <https://doi.org/10.1038/s41598-025-93327-4>
- Genovart, M., Salguero-Gomez, R., Colchero, F., Guil, F., Rabassa-Juvanteney, J., Uriach-Dasca, J., Conde, D. A., Gaillard, J. M., & Coulson, T. (2025). Call for new criteria for monitoring and registering Natura 2000 species data. *Conservation Biology*, 39(5), e70064. <https://doi.org/10.1111/cobi.70064>
- Gim nez-Romero,  ., Ferchichi, D., Moreno-Spiegelberg, P., Sintes, T., & Mat as, M. A. (2025). A generalizable deep learning framework for large-scale mapping of seagrass habitats. *Ecological Indicators*, 180, 114349. <https://doi.org/10.1016/j.ecolind.2025.114349>
- Gomis, E., Strydom, S., Foster, N. R., Montemayor, D., Mateo, M. A., Serrano, E., Inostroza, K., McCallum, R., Lafratta, A., Webster, C. L., O'Dea, C. M., Said, N. E., Dunham, N., Bernasconi, R., Werner, A., Vitelli, F., Puigcorb , V., D'Cruz, A., Salinas, C., ... Serrano, O. (2025). Global estimates of seagrass blue carbon stocks in biomass and net primary production. *Nature Communications*, 16(1), 9530. <https://doi.org/10.1038/s41467-025-64667-6>
- Gonz lez, M. A., L pez-de-Felipe, M., Magallanes, S., Alarc n-Elbal, P. M., Barcel , C., Mart nez-Barciela, Y., Polina, A., Garc a-L pez, A. M., Blanco-Sierra, L., Pel ez Guerra, M. A., Delacour, S., Figuerola, J.,

- Ruiz-Arrondo, I., & Bravo-Barriga, D. (2025). Distribution, identification and ecology of *Phortica* genus (Diptera: Drosophilidae) in Spain. *International Journal of Veterinary Science and Medicine*, 13(1), 1-11. <https://doi.org/10.1080/23144599.2025.2453960>
- Grandi, G., Catalán, N., Bernal, S., Fasching, C., Battin, T. I., & Bertuzzo, E. (2025). Water Transit Time Explains the Concentration, Quality and Reactivity of Dissolved Organic Carbon in an Alpine Stream. *Water Resources Research*, 61(3), e2024WR039392. <https://doi.org/10.1029/2024WR039392>
- Graversen, A. E. L., Lønborg, C., Addamo, A. M., Pedersen, S. G., Chemello, S., Alejo, I., Apostolaki, E. T., Asplund, M. E., Austin, W. E. N., Berov, D., Berto, D., Björk, M., Black, K., Bobchev, N., Bonaglia, S., Borgersen, G., Bouma, T., Costello, M. J., Dahl, M., ... Jensen, D. K. (2025). A marine and salt marsh sediment organic carbon database for European regional seas (EURO-CARBON). *Data in Brief*, 60, 111595. <https://doi.org/10.1016/j.dib.2025.111595>
- Horaud, M., Raventós, N., Præbel, K., Galià-Camps, C., Pegueroles, C., Carreras, C., Pascual, M., Tuset, V. M., Bhat, S., & L ynghammar, A. (2025). Allochrony in Atlantic Lumpfish: Genomic and Otolith Shape Divergence Between Spring and Autumn Spawners. *Ecology and Evolution*, 15(2), e70946. <https://doi.org/10.1002/ece3.70946>
- Huang, Y., Holmer, M., Xu, C., Liu, M., Masque, P., Serrano, O., Hu, J., Effiong, K., Tang, T., Zhu, J., Wu, J., & Xiao, X. (2025). Enhanced Microplastic Burial in China's Coastal Blue Carbon Ecosystems: Drivers and Potential Roles in Climate Change Mitigation. *Environmental Science & Technology*, 59(47), 25442-25453. <https://doi.org/10.1021/acs.est.5c10702>
- Iritani, R., Ontiveros, V. J., Alonso, D., Capitán, J. A., Godsoe, W., & Tatsumi, S. (2025). Jaccard dissimilarity in stochastic community models based on the species-independence assumption. *Ecography*, 2025(8), e07737. <https://doi.org/10.1002/ecog.07737>
- Jativa, C., Lupon, A., Lannergård, E., Ledesma, J. L. J., Rocher-Ros, G., Peñarroya, X., & Bernal, S. (2025). Breathing storms: Enhanced ecosystem respiration during storms in a heterotrophic headwater stream. *Biogeosciences*, 22(21), 6411-6425. <https://doi.org/10.5194/bg-22-6411-2025>
- Jimi, N., Pinn Woo, S., Koreeda, R., Yoshida, R., Herng, T. L. Y., Irfan, I., Goto, R., Hookabe, N., & Martin, D. (2025). Two new symbiotic Hesionidae (Annelida: Polychaeta) from the West Pacific, including the first case for a species in *Podarkeopsis*. *Bulletin of Marine Science*, 101(4), 1877-1891. <https://doi.org/10.5343/bms.2025.0069>
- Jones, E. R., Van Beek, R., Cárdenas Belleza, G., Burek, P., Dugdale, S. J., Flörke, M., Fridman, D., Gosling, S. N., Kumar, R., Mercado-Bettin, D., Müller Schmied, H., Tan, Z., Thiery, W., Tilahun, A. B., Wanders, N., & Van Vliet, M. T. H. (2025). A multi-model assessment of global freshwater temperature and thermoelectric power supply under climate change. *Environmental Research: Water*, 1(2), 025002. <https://doi.org/10.1088/3033-4942/addffa>
- Kelleway, J. J., Gorham, C., Trevathan-Tackett, S. M., Palacios, M., Serrano, O., Lavery, P. S., Nagel-Tynan, Z., Conroy, B. M., Bendall-Pease, G., Rigney, S. D., Deutscher, N. M., Hughes, M. G., Carvalho, R. C., Owers, C. J., Jones, A. R., Russell, S. K., Planque, C., Saintilan, N., & Rogers, K. (2025). Inundation and salinity regimes support blue carbon conditions in Australian temperate supratidal forests. *Ecological Applications*, 35(7), e70123. <https://doi.org/10.1002/eap.70123>
- Khamis, A., Pagès, J. F., Arthur, R., D'Souza, E., Hameid, N. A., Al Khalifa, E., Mohamed, A., Al-Bastaki, J., Al-Ammari, K., Eweida, A. A., & Alcoverro, T. (2025). Why Do Large Dugong Aggregations Persist in Continuous Seagrass Meadows Despite Anthropogenic Disturbances Around Hawar

- Island, Bahrain. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 35(5), e70157. <https://doi.org/10.1002/aqc.70157>
- Killeen, H., Sydeman, W. J., Hoover, B., Thompson, S. A., Kristiansen, T., García-Reyes, M., Koval, G., Ceballos, E., Heal, M., Anker-Nielsen, T., Barrett, R., Becker, P., Berglund, P.-A., Birkhead, T., Boulinier, T., Bouwhuis, S., Daunt, F., Dehnhard, N., Diamond, A., ... Young, L. (2025). Ecosystems mediate climate impacts on northern hemisphere seabirds. *Communications Earth & Environment*, 6(1), 804. <https://doi.org/10.1038/s43247-025-02717-z>
- Kim, H. G., Sabas, I., Ventura, M., & Buchaca, T. (2025). The relative importance of dispersal and local factors in structuring phytoplankton communities in high mountain lakes in the Pyrenees. *Inland Waters*, 15(1), 2412432. <https://doi.org/10.1080/20442041.2024.2412432>
- Krause, J. R., Cameron, C., Arias-Ortiz, A., Cifuentes-Jara, M., Crooks, S., Dahl, M., Friess, D. A., Kennedy, H., Lim, K. E., Lovelock, C. E., Marbà, N., McGlathery, K. J., Oreska, M. P. J., Pidgeon, E., Serrano, O., Vanderklift, M. A., Wong, L.-W., Yaakub, S. M., & Fourqurean, J. W. (2025). Global seagrass carbon stock variability and emissions from seagrass loss. *Nature Communications*, 16(1), 3798. <https://doi.org/10.1038/s41467-025-59204-4>
- Le Vilain, A., Thébault, E., Apostolaki, E. T., Serrano, O., & Dakos, V. (2025). Abrupt Loss of Soil Organic Carbon Following Disturbance in Seagrass Ecosystems. *Global Biogeochemical Cycles*, 39(10), e2024GB008449. <https://doi.org/10.1029/2024GB008449>
- Ledesma, J. L. J., Musolff, A., Sponseller, R. A., Lupon, A., Peñarroya, X., Jativa, C., & Bernal, S. (2025). The Riparian Zone Controls Headwater Hydrology and Biogeochemistry, Doesn't It? Reassessing Linkages Across European Ecoregions. *Global Biogeochemical Cycles*, 39(2), e2024GB008250. <https://doi.org/10.1029/2024GB008250>
- Lewis, A. S. L., Mercado-Bettín, D., & Carey, C. C. (2025). Ecological Memory Contributes to a Spatial Mismatch in Water Quality Trends Between the Surface and Bottom Waters of 382 Temperate Lakes. *Ecology Letters*, 28(11), e70243. <https://doi.org/10.1111/ele.70243>
- Lloret, J., Wawrzynkowski, P., Dominguez-Carrió, C., Sardá, R., Molins, C., Gili, J. M., Sabatés, A., Vila-Subirós, J., Garcia, L., Solé, J., Berdalet, E., Turiel, A., & Olivares, A. (2025). Floating offshore wind farms in Mediterranean marine protected areas: A cautionary tale. *ICES Journal of Marine Science*, 82(3), fsad131. <https://doi.org/10.1093/icesjms/fsad131>
- Lloret, J., Wawrzynkowski, P., Sardá, R., Rigall, R., & Muijal-Colilles, A. (2025). The new wave of ocean industrialization and the challenges for biodiversity conservation in the Mediterranean Sea: The case of the Costa Brava. *Scientific Reports*, 15(1), 30391. <https://doi.org/10.1038/s41598-025-15279-z>
- Macpherson, E., & Machordom, A. (2025). Squat lobsters (Decapoda: Chirostyloidea and Galatheaidea) from Saya de Malha Bank, SW Indian Ocean, with the descriptions of three new species. *European Journal of Taxonomy*, 1012. <https://doi.org/10.5852/ejt.2025.1012.3031>
- Macpherson, E., Rodríguez-Flores, P. C., & Machordom, A. (2025). New species of Galathea Fabricius, 1793 and Nanogalathea Tirmizi & Javed, 1980 (Crustacea: Decapoda, Galatheaidea) from the Western Pacific. *Zootaxa*, 5570(3), 447-483. <https://doi.org/10.11646/zootaxa.5570.3.2>
- Magliozzi, C., Cardoso, A. C., Gervasini, E., Melone, B., Bizzotto, E. C., Brundu, G., Cagnacci, F., Cebrian, E., Adriaens, T., Alves, M. H., Bartilotti, C., Carnevali, L., Duarte, S., Groom, Q., Queiroga, R. M., Meeus, S., Nunes, A. L., Preda, C., Rendón-Hernández, E., ... Álvaro, N. V. (2025). Aligning EU policies to address biological invasions: Assessing invasion impacts across sectors. *NeoBiota*, 102, 295-312. <https://doi.org/10.3897/neobiota.102.152015>

- Maldonado, M., & Hendry, K. R. (2025). Revisiting the silicon isotopic signal of sponge skeletons and its implications. *Limnology and Oceanography*, 70(9), 2480-2495. <https://doi.org/10.1002/lno.70138>
- Maldonado, M., Pita, L., Erpenbeck, D., Hentschel, U., Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., Niu, H., McKenna, V., O'Brien, R., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, & Aquatic Symbiosis Genomics Project Leadership. (2025). The chromosomal genome sequence of the sponge, *Corticium candelabrum* Schmidt, 1862 and its associated microbial metagenome sequences. *Wellcome Open Research*, 10, 535. <https://doi.org/10.12688/wellcomeopenres.24923.1>
- Maldonado, M., Pita, L., Hentschel, U., Erpenbeck, D., Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., Niu, H., McKenna, V., O'Brien, R., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, & Aquatic Symbiosis Genomics Project Leadership. (2025). The chromosomal genome sequence of the sponge *Crambe crambe* (Schmidt, 1862) and its associated microbial metagenome sequences. *Wellcome Open Research*, 10, 275. <https://doi.org/10.12688/wellcomeopenres.24154.1>
- Martin, D., Antokhina, T. I., Zvonareva, S., & Britayev, T. A. (2025). Insights into the second-known polychaete-asteroid symbiosis, involving a new species of *Inermosyllis* associated with *Luidia maculata*. *Contributions to Zoology*, 94(3), 223-243. <https://doi.org/10.1163/18759866-bja10077>
- Martin, D., Chaibi, M., Lavesque, N., Daffe, G., Daramy, F., Hutchings, P., Jourde, J., & Romano, C. (2025). Integrative taxonomy reveals further hidden diversity of *Marphysa* (Polychaeta: Eunicidae) in European Atlantic and Mediterranean waters. *Zoological Journal of the Linnean Society*, 204(3), zlaf018. <https://doi.org/10.1093/zoolinnean/zlaf018>
- Martínez-Haro, M., Triadó-Margarit, X., Mateo, R., Viñuela, J. A., & Casamayor, E. O. (2025). Taxonomic and functional fingerprints in the gut microbiota of Iberian hare (*Lepus granatensis*) inhabiting organic and conventional farming fields. *Environmental Pollution*, 369, 125862. <https://doi.org/10.1016/j.envpol.2025.125862>
- McRuer, J., Glithero, D. L., McKinley, E., Pagès, J. F., Fauville, G., Morris-Webb, E. S., Hart, N., Strang, C., Christofolletti, R., Hulme, S., Granger, E., Pinheiro, B., Payne, D. L., Bridge, N., Lindoso, V., Martins, I. M., Zandvliet, D., Bueno Fernandes, M., Bumbeer, J., & Shellock, R. (2025). The Ocean & Society Survey: A Global Tool for Understanding People–Ocean Connections and Mobilizing Ocean Action. *Ocean and Society*, 2, 9809. <https://doi.org/10.17645/oas.9809>
- Minguito-Frutos, M., Arthur, R., Boada, J., Marco-Méndez, C., Adams, M. P., Pagès, J. F., Buñuel, X., Pessarrodona, A., Turon, X., Ballesteros, E., Tamburello, L., Farina, S., Skouradakis, G., Kletou, D., Cebrian, E., Santamaría, J., Verdura, J., & Alcoverro, T. (2025). Grazing halos reveal differential ecosystem vulnerabilities in vegetated habitats. *Ecology*, 106(11), e70239. <https://doi.org/10.1002/ecy.70239>
- Minguito-Frutos, M., Buñuel, X., Marco-Méndez, C., Sanmartí, N., Skouradakis, G., Boada, J., Pagès, J. F., Alcoverro, T., & Arthur, R. (2025). Tropical range extending herbivorous fishes gain foraging benefits by shoaling with native temperate species. *Scientific Reports*, 15(1), 35137. <https://doi.org/10.1038/s41598-025-19136-x>

- Miralles-Lorenzo, J., Picazo, A., Rochera, C., Morant, D., Casamayor, E. O., Menéndez-Serra, M., & Camacho, A. (2025). Environmental Gradients and Conservation Status Determine the Structure and Carbon-Related Metabolic Potential of the Prokaryotic Communities of Mediterranean Inland Saline Shallow Lakes. *Ecology and Evolution*, 15(5), e71286. <https://doi.org/10.1002/ece3.71286>
- Mir-Arguimbau, J., Martín, P., Balcells, M., Salat, J., Flexas, M. M., Raventós, N., & Sabatés, A. (2025). Sea temperature shapes differences in European sardine (*Sardina pilchardus*) growth in two adjacent areas in the NW Mediterranean Sea. *Marine Environmental Research*, 211, 107396. <https://doi.org/10.1016/j.marenvres.2025.107396>
- Monràs-Riera, P., Ruiz-Orejón, L. F., Angulo-Preckler, C., Sardá, R., & Avila, C. (2025). Surface waters meso- and micro-litter around the Western Antarctic Peninsula: Are the South Shetland Islands a pollution hotspot? *Environmental Research*, 285, 122560. <https://doi.org/10.1016/j.envres.2025.122560>
- Montagud, D., & Camarero, L. (2025). Influence of soil on the biogeochemistry of high mountain streams. *Ecohydrology & Hydrobiology*, 25(4), 100702. <https://doi.org/10.1016/j.ecohyd.2025.100702>
- Moralejo, E., García-Muñoz, J. A., Denman, S., & Giménez-Romero, À. (2025). Leaf susceptibility of Macaronesian laurel forest species to *Phytophthora ramorum*. *European Journal of Forest Research*, 144(2), 363-376. <https://doi.org/10.1007/s10342-025-01764-7>
- Morav, T., Taboada, S., Goren, L., Idan, T., Shefer, S., Tikochinski, Y., Sancha, C. G., Pérez, T., Coma, R., & Ilan, M. (2025). Deep connections: Exploring the genetic connectivity of mesophotic and shallow-water populations of the sponge *Axinella polypoides*. *Scientific Reports*, 15(1), 39183. <https://doi.org/10.1038/s41598-025-18563-0>
- Morera-Pujol, V., Catry, P., Magalhães, M., Péron, C., Reyes-González, J. M., Granadeiro, J. P., Militão, T., Dias, M. P., Oro, D., Igual, J. M., Dell'Omo, G., Müller, M., Paiva, V. H., Metzger, B., Neves, V., Navarro, J., Karris, G., Xirouchakis, S., Cecere, J. G., ... Ramos, R. (2025). Migratory Connectivity and Non-Breeding Habitat Segregation Across Biogeographical Scales in Closely Related Seabird Taxa. *Diversity and Distributions*, 31(3), e70013. <https://doi.org/10.1111/ddi.70013>
- Oliva-Albert, M., Bellostas-Carreras, A., Guijosa-Ortega, J. L., Doménech-Pascual, A., Boadella, J., Casas-Ruiz, J. P., Pineda-Morante, D., Menard, Y., Ayuso, L., Lupon, A., Martí, E., Guasch, H., Artigas, J., & Romaní, A. M. (2025). Microbial colonization and function of biofilms developing on plastics and bioplastics in a pristine mountain stream ecosystem. *Limnology and Oceanography*, 70(8), 2239-2255. <https://doi.org/10.1002/lno.70107>
- Oro, D., Freixas, L., Bartrina, C., Míguez, S., & Tenan, S. (2025). Living in the edge: Demographic responses driven by density-dependence and pulsed resources in a hibernating mammal. *Ecography*, 2025(8), e07710. <https://doi.org/10.1002/ecog.07710>
- Paul, A., Thareja, H., Arthur, R., Alcoverro, T., Pulla, S., & Karkarey, R. (2025). Predators can facilitate herbivory in nutrient-limited marine ecosystems. *Scientific Reports*, 16(1), 3978. <https://doi.org/10.1038/s41598-025-34145-6>
- Pegueroles, C., Galià-Camps, C., Pascual, M., Bassitta, M., González, D., Greve, C., Macpherson, E., Raventós, N., Schell, T., Torrado, H., & Carreras, C. (2025). Chromosome-level genome assembly and annotation of the sharpsnout seabream (*Diplodus puntazzo*). *Scientific Data*, 12(1), 576. <https://doi.org/10.1038/s41597-025-04902-3>
- Pineda-Morante, D., Argudo, M., Romaní, A. M., Guasch, H., & Martí, E. (2025). Light-dark conditions drive variability in phosphorus and ammonium uptake by

epilithic biofilms along the main stem of a Mediterranean river. *Limnology and Oceanography*, 70(9), 2431-2446. <https://doi.org/10.1002/lno.70134>

Piñeiro-Juncal, N., Mateo, M. Á., Leiva-Dueñas, C., Serrano, E., Inostroza, K., Soler, M., Apostolaki, E. T., Lavery, P., Duarte, C. M., Lafratta, A., & Serrano, O. (2025). Soil organic carbon depth profiles and centennial and millennial decay rates in tidal marsh, mangrove and seagrass blue carbon ecosystems. *Communications Earth & Environment*, 6(1), 504. <https://doi.org/10.1038/s43247-025-02390-2>

Pita, L., Maldonado, M., Koutsouveli, V., Riesgo, A., Hentschel, U., Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., Niu, H., McKenna, V., O'Brien, R., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, & Aquatic Symbiosis Genomics Project Leadership. (2025). The chromosomal genome sequence of the kidney sponge, *Chondrosia reniformis* Nardo, 1847, and its associated microbial metagenome sequences. *Wellcome Open Research*, 10, 283. <https://doi.org/10.12688/wellcomeopenres.24166.1>

Poinsignon, A., Fournet, F., Ngowo, H. S., Franco Martins Barreira, V., Pinto, J., Bartumeus, F., Kaindoa, E. W., & Corbel, V. (2025). Advances in surveillance and control methods for Aedes-borne diseases and urban vectors: Report of the International Conference, August 2024, Tanzania. *Parasites & Vectors*, 18(1), 212. <https://doi.org/10.1186/s13071-025-06838-4>

Pou-Rossell, M., Sol, D., & Jolles, J. W. (2025). A centralised multi-unit recording system for automated, off-grid animal observation and environmental monitoring. *Methods in Ecology and Evolution*, 16(10), 2335-2344. <https://doi.org/10.1111/2041-210X.70129>

Qiu, Y., Chen, J., Chen, D., Thiery, W., Mercado-Bettín, D., Xiong, L., Xia, J., & Woolway, R. I. (2025). Enhanced heating effect of lakes under global warming. *Nature Communications*, 16(1), 3954. <https://doi.org/10.1038/s41467-025-59291-3>

Radashevsky, V. I., Martin, D., & Gil, J. (2025). Refining the morphological characteristics of *Dipolydora capensis* (Day, 1955) and *Dipolydora goreensis* (Augener, 1918) (Annelida: Polychaeta: Spionidae) from Atlantic African waters. *African Zoology*, 60(1-2), 83-93. <https://doi.org/10.1080/15627020.2024.2385830>

Reidy, M., Berggren, M., Lupon, A., Laudon, H., & Sponseller, R. A. (2025). Riparian Zone Heterogeneity Influences the Amount and Fate of Biodegradable Dissolved Organic Carbon at the Land-Water Interface. *Journal of Geophysical Research: Biogeosciences*, 130(5), e2024JG008471. <https://doi.org/10.1029/2024JG008471>

Rouco, C., Triadó-Margarit, X., Abrantes, J., Lopes, A. M., Almeida, T., Isla, J., De La Fuente, G., Rodriguez, O., & Casamayor, E. O. (2025). Changes in gut microbiota signatures associated with the epidemiological dynamics of wild European rabbits facing haemorrhagic disease outbreaks. *Veterinary Microbiology*, 310, 110688. <https://doi.org/10.1016/j.vetmic.2025.110688>

Scoggins, M., Barrett, I. C., Margetts, B. I., Martí, E., Murphy, B. M., Roy, A. H., Shear, R. I., Sabat-Bonilla, S. A., Griffiths, N. A., Nanjappa, V., Mussett, K., Stirling, K. M., Chiblow, S., & Nolan, S. (2025). An approach to urban waterway assessment using holistic values and reciprocity. *Freshwater Science*, 44(4), 633-659. <https://doi.org/10.1086/738639>

Sepp, M., Abbasi, M., Döll, P., Freixa, A., Marcé, R., & Sabater, S. (2025). Impacts of climate change on the dilution capacity of perennial and non-perennial European rivers. *Water Research*, 287, 124499. <https://doi.org/10.1016/j.watres.2025.124499>

- Serrano, E., Mas, G., Serrano, O., Inostroza, K., Ribes, M., & Coma, R. (2025). Pruning dead branches in gorgonian forests as an effective restoration tool against mortality events induced by global change. *Biological Conservation*, 302, 110982. <https://doi.org/10.1016/j.biocon.2025.110982>
- Simó, R., Coma, R., Cortés-Greus, P., Masdeu-Navarro, M., Morganti, T., & Ribes, M. (2025). Removal of Volatile Organic Compounds by Marine Sponges: Implications for Coastal Bioremediation. *Environmental Science & Technology*, 59(51), 27869-27880. <https://doi.org/10.1021/acs.est.5c05458>
- Sol, D., Prego, A., Olivé, L., Genovart, M., Oro, D., & Hernández-Matías, A. (2025). Adaptations to marine environments and the evolution of slow-paced life histories in endotherms. *Nature Communications*, 16(1), 4265. <https://doi.org/10.1038/s41467-025-59273-5>
- Steindler, L., Maldonado, M., Pita, L., Riesgo, A., Erpenbeck, D., Hentschel, U., Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., Niu, H., McKenna, V., O'Brien, R., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, & Aquatic Symbiosis Genomics Project Leadership. (2025). The chromosomal genome sequence of the stone sponge *Petrosia ficiformis* (Poiret, 1789) and its associated microbial metagenome sequences. *Wellcome Open Research*, 10, 450. <https://doi.org/10.12688/wellcomeopenres.24743.1>
- Taboada, S., Díez-Vives, C., Turon, M., Belén Arias, M., Galià-Camps, C., Cárdenas, P., Koutsouveli, V., Correia De Carvalho, F., Kenchington, E., Davies, A. J., Wang, S., Martín-Huete, M., Roberts, E. M., Xavier, J. R., Combosch, D., & Riesgo, A. (2025). Connectivity and Adaptation Patterns of the Deep-Sea Ground-Forming Sponge *Geodia hentscheli* Across Its Entire Distribution. *Molecular Biology and Evolution*, 42(7), msaf145. <https://doi.org/10.1093/molbev/msaf145>
- Tamsouri, M.N., Asri, F.E., Aamri, F.E., Settih, J., Martin, D. (2025). Demersal and Epibenthic Communities of Trawlable Grounds on the Mediterranean Coasts of Morocco (South Alboran Sea). *Egyptian Journal of Aquatic Biology and Fisheries*, 29(3), 1735-1750. <https://doi.org/10.21608/ejabf.2025.431131>
- Treskova, M., Montalvo, T., Rocklöv, J., Hatfield, C., Bartumeus, F., Dasgupta, S., Encarnação, J., Lowe, R., Semenza, J. C., Stiles, P., Noya, J., Valsecchi, A., Bärnighausen, T., Palmer, J. R. B., & Bunker, A. (2025). Effects of mosquito-proofing storm drains on adult and larval mosquito abundance: Protocol of the IDAIert storm drain randomised controlled trial (IDEAS). *MethodsX*, 14, 103102. <https://doi.org/10.1016/j.mex.2024.103102>
- Turon, X., Martín-Solà, M., Moro-Abad, L., & Hernández, J. C. (2025). Emergence of an invasive ascidian in Canary Islands (Eastern Atlantic): Tracking the arrival and spread of *Cnemidocarpa irene*. *Aquatic Invasions*, 20(4), 411-425. <https://doi.org/10.3391/ai.2025.20.4.172098>
- Turon, X., Wangensteen, O. S., Zarcero, J., Palacin, C., & Antich, A. (2025). Advancing Marine Conservation: Metabarcoding and Metaphylogeography for a Multi-Year Biomonitoring of Benthic Communities of National Parks Across Two Seas. *Diversity and Distributions*, 31(11), e70121. <https://doi.org/10.1111/ddi.70121>
- Van den Wyngaert, S., Nawaz, A., Alacid, E., Wood-Rocca, S. M., Reñé, A., Garcés, E., Kremp, A., & Wurzbacher, C. (2025). Dynamics of zoosporic parasites in summer phytoplankton communities of the Baltic Sea. *FEMS Microbiology Ecology*, 101(8), fiae081. <https://doi.org/10.1093/femsec/fiae081>

- Vidal-Abarca, M. R., Martín-López, B., Sala-Bubaré, A., Anton-Pardo, M., Catalan, N., Freixa, A., Lupon, A., Nicolás-Ruiz, N., Poblador, S., Rodríguez-Lozano, P., Sánchez-Montoya, M. D. M., & Suárez, M. L. (2025). Older people care increases the gender gap in academia. *Scientific Reports*, 15(1), 33336. <https://doi.org/10.1038/s41598-025-13360-1>
- Virgili, R., Tanduo, V., D'Aniello, S., Fontana, A., Turon, X., & Crocetta, F. (2025). Paedomorphic adaptations in a new *Heterostigma* species: A novel strategy for ascidians to live in soft-bottom habitats. *Invertebrate Systematics*, 39(7), IS24103. <https://doi.org/10.1071/IS24103>
- Williams-Hoffman, M., Johansen, M. P., Larcombe, P., Child, D. P., Hotchkis, M. A. C., Serrano, O., Lavery, P. S., Thiruvoth, S., & Masqué, P. (2025). Montebello Islands marine sediment retains nuclear weapons-derived radionuclide contamination 70 years after detonations. *Marine Pollution Bulletin*, 219, 118280. <https://doi.org/10.1016/j.marpolbul.2025.118280>
- Zakhama-Sraieb, R., Zribi, I., Abdelkader, N., Charfi-Cheikhrouha, F., Ben Hmida, A., Sghaier, Y. R., Soler, M., Piñeiro-Juncal, N., Mateo, M. A., & Serrano, O. (2025). Seagrass carbon stocks and fluxes in the Marine and Coastal Protected Area of Kerkenah Archipelago, East Tunisia. *Marine Pollution Bulletin*, 216, 118007. <https://doi.org/10.1016/j.marpolbul.2025.118007>
- Zarzyczny, K. M., Robidart, J. C., Fenberg, P. B., Forryan, A., Hellberg, M. E., Williams, S. T., Paz-García, D. A., Naveira Garabato, A. C., & Rius, M. (2025). Combining Environmental DNA Data With Oceanography, Life History and Ecology for Detecting Climate-Induced Range Shifts. *Diversity and Distributions*, 31(8), e70064. <https://doi.org/10.1111/ddi.70064>
- Zhang, M., Shen, Z., Walden, L., Sepanta, F., Luo, Z., Gao, L., Serrano, O., & Viscarra Rossel, R. A. (2025). Deep learning of the particulate and mineral-associated organic carbon fractions using a composi-

tional transform and mid-infrared spectroscopy. *Geoderma*, 455, 117207. <https://doi.org/10.1016/j.geoderma.2025.117207>

BOOKS

- Bock, D., & Rius, M., (2025). *Invasion Genomics*. Cabi Publishing. <https://doi.org/10.1079/9781800626263.0000>

BOOK CHAPTERS

- Baqué, E., Riera, J. L., Camarero, L., Catalan, J., Merbt, S. N., Ballesteros, E., Gacia, E., (2025). *Canvis en la vegetació aquàtica dels estanys del PNAESM al llarg de tres dècades*. In, La investigació al Parc Nacional d'Aigüestortes i Estany de Sant Maurici. XIII Jornades sobre Recerca al Parc Nacional d'Aigüestortes i Estany de Sant Maurici (pp. 119-125). Generalitat de Catalunya.
- Bock, D., & Rius, M., (2025). *From the Ecology to the Genetics and Genomics of Invasive Species*. In D. Bock & M. Rius (Eds.), *Invasion Genomics* (pp. 1-12). Cabi Publishing. <https://doi.org/10.1079/9781800626263.0000>
- Bock, D., & Rius, M., (2025). *Using Genomics to Inform the Management of Biological Invasions: from Sequencing Genomes to Sequencing Biomes*. In D. Bock & M. Rius (Eds.), *Invasion Genomics* (pp. 175-191). Cabi Publishing. <https://doi.org/10.1079/9781800626263.0000>
- Buchaca, T., Tatjé, S., Gilbert, N., Kim, H., Jo, H., Giménez, G., Sabas, I. Buñay, D., Osorio, V., Puig, M. A., Pou Rovira, Q., Ventura, M., (2025). *Impacte de l'eliminació dels peixos sobre la biomassa i composició del fitoplàncton en estanys d'alta muntanya després de vuit anys de seguiment*. In, La investigació al Parc Nacional d'Aigüestortes i Estany de Sant Maurici. XIII

Jornades sobre Recerca al Parc Nacional d'Aigüestortes i Estany de Sant Maurici (pp. 137-151). Generalitat de Catalunya.

Parc Nacional d'Aigüestortes i Estany de Sant Maurici (pp. 109-117). Generalitat de Catalunya.

Camarero, L., Montagud, D., (2025). *La importància de l'aigua subterrània en l'escorrentia superficial del Parc*. In, La investigació al Parc Nacional d'Aigüestortes i Estany de Sant Maurici. XIII Jornades sobre Recerca al Parc Nacional d'Aigüestortes i Estany de Sant Maurici (pp. 19-27). Generalitat de Catalunya.

Catalan, J., Felip, M., Batalla, M., Camarero, L., Fagin, E., García-Orellana, J., Kaal, J., Martín, D., Marquí, P., Palacín-Lizarbe, C., Pla-Rabes, S., Rodríguez, X., Martínez-Cortizas, A., (2025). *La aceleración de los ciclos biogeoquímicos en la alta montaña durante el antropoceno*. In, Proyectos de investigación en parques nacionales: 2019-2023 (pp. 375-389). Organismo Autónomo Parques Nacionales.

Casamayor, E. O., Cáliz, J., Ontiveros, V. J., Triadó-Margarit, X., (2025). *Aerosmic: efectos del cambio global en la dispersión de microorganismos por la atmósfera*. In, La investigació al Parc Nacional d'Aigüestortes i Estany de Sant Maurici. XIII Jornades sobre Recerca al Parc Nacional d'Aigüestortes i Estany de Sant Maurici (pp. 7-17). Generalitat de Catalunya.

Gomez Gener, L., Cambras, E., Camarero, L. (2025). *Intermitència hidrològica en xarxes fluvials d'alta muntanya: el cas de la Vall de Contraix*. In, La investigació al Parc Nacional d'Aigüestortes i Estany de Sant Maurici. XIII Jornades sobre Recerca al Parc Nacional d'Aigüestortes i Estany de Sant Maurici (pp. 29-39). Generalitat de Catalunya.

Lecegui, V., Wangenstein, O., Illa, E., Pladevall, E., Garcés, S., Osorio, V., Ventura, M., Pérez Haase, H., (2025). *Resposta als gradients altitudinals de la biodiversitat oculta en molles*. In, La investigació al Parc Nacional d'Aigüestortes i Estany de Sant Maurici. XIII Jornades sobre Recerca al

Maldonado, M., Wahab, M. A. A., (2025). *Chapter 5 - Phylum Porifera*. In M.J. Boyle & C.M. Young, Atlas of Marine Invertebrate Larvae (Second Edition) (pp. 113-148). Academic Press. <https://doi.org/10.1016/B978-0-08-102871-1.00002-6>

Nogué, L., Aymerich, P., Caner, J., Chaoui, F., Atienza, S., Buñay, D., Osorio, V., Lecegui, V., Buchaca, T., Lucati, F., Puig, M. A., Ventura, M., (2025). *Impacte de la regulació hidràulica sobre les poblacions d'almesquera (Galemys pyrenaicus Geoffroy, 1811) al Parc Nacional d'Aigüestortes i Estany de Sant Maurici*. In, La investigació al Parc Nacional d'Aigüestortes i Estany de Sant Maurici. XIII Jornades sobre Recerca al Parc Nacional d'Aigüestortes i Estany de Sant Maurici (pp. 197-210). Generalitat de Catalunya.

Osorio, V., Puig, M.A., Buchaca, T., Pou Rovira, Q., Ventura, M., (2025). *La recuperació dels macroinvertebrats litorals dels estanys del Parc Nacional després de l'erradicació dels peixos*. In, La investigació al Parc Nacional d'Aigüestortes i Estany de Sant Maurici. XIII Jornades sobre Recerca al Parc Nacional d'Aigüestortes i Estany de Sant Maurici (pp. 127-135). Generalitat de Catalunya.

Rius, M., & Bock, D., (2025). *Invasion Genomics: A Transformative Lens for Understanding and Managing Biological Invasions*. In D. Bock & M. Rius (Eds.), Invasion Genomics (pp. 192-196). Cabi Publishing. <https://doi.org/10.1079/9781800626263.0000>

Rius, M., & Pascual, M., (2025). *Genomics-informed Modelling: Advancing Our Understanding of Non-indigenous Species' Colonization and Spread*. In D. Bock & M. Rius (Eds.), Invasion Genomics (pp. 162-174). Cabi Publishing. <https://doi.org/10.1079/9781800626263.0000>

Turon, X., Cebrian, E., Alcoverro, T., Ballesteros, E., Santamaria, J., Zarcero, J., Antich, A. Marco, C., (2025). *Biodiversidad del bentos marino de parques nacionales impactados por especies invasoras y cambio climático: monitorización genética y ecológica*. In, Proyectos de investigación en parques nacionales: 2019-2023 (pp. 211-228). Organismo Autónomo Parques Nacionales.

Ventura, M., Buchaca, T., Perez-Haase, A., Alonso, M., Caner, J., de Mendoza, G., Garces-Pastor, S., Grau, O., Jimenez-Alfaro, B., Leoegw, V., Osorio, V., Pelachs, A., Perez-Oriol, R., Pladevall, E., Puig, M.A., Sanchez-Morales, M., Wangensteen, O.S., Ninot, J.M., (2025). *Ecosistemas acuáticos de alta montaña: refugio de biodiversidad oculta y centinelas del cambio global*. In, Proyectos de investigación en parques nacionales: 2019-2023 (pp. 163-190). Organismo Autónomo Parques Nacionales.

REVIEWS, LETTERS AND COMMENTARIES OTHER PUBLICATIONS

Dahl, M., Lavery, P. S., Mazarrasa, I., Samper-Villarreal, J., Adame, M. F., Crooks, S., Duarte, C. M., Friess, D. A., Krause-Jensen, D., Leiva-Dueñas, C., Lovelock, C. E., Macreadie, P. I., Masqué, P., Mateo, M. A., & Serrano, O. (2025). Recommendations for strengthening blue carbon science. *One Earth*, 8(3), 101175. <https://doi.org/10.1016/j.oneear.2025.101175>

De Eyto, E., Smyth, R. L., Pilla, R. M., Laas, A., Shahabinia, A. R., Baldocchi, A., Desai, A. R., Lupon, A., Lohila, A., Obrador, B., Denfeld, B. A., Carey, C. C., Bastviken, D., Reed, D., Rudberg, D., Rööm, E., Clayer, F., Weyhenmeyer, G. A., Chmiel, H. E., ... Doyle, B. C. (2025). Diel variation in CO₂ flux is substantial in many lakes. *Limnology and Oceanography Letters*, 10(6), 977-989. <https://doi.org/10.1002/lol2.70066>

Dodds, W. K., Barmuta, L. A., Bernal, S., Corman, J., Harms, T. K., Johnson, S. L., Li, L., Fernandes Cunha, D. G., Olden, J. D., Riis, T., Silva, L. C. R., Stella, J. C., Sullivan, P., & Wohl, E. (2025). Defining stream riparian zones across multidimensional environmental gradients. *Journal of Environmental Quality*, 54(6), 1674-1697. <https://doi.org/10.1002/jeq2.70080>

Foster, N. R., Apostolaki, E. T., DiBenedetto, K., Duarte, C. M., Gregory, D., Inostroza, K., Krause-Jensen, D., Jones, B. L. H., Serrano, E., Zakhama-Sraieb, R., & Serrano, O. (2025). Societal value of seagrass from historical to contemporary perspectives. *Ambio*, 54(8), 1289-1305. <https://doi.org/10.1007/s13280-025-02167-z>

Genua-Olmedo, A., Poblador, S., Lecina-Diaz, J., Sánchez-Montoya, M. M., Rodríguez-Lozano, P., Bartrons, M., Hernández-del Amo, E., Anton-Pardo, M., Catalán, N., Pastor, A., Cañedo-Argüelles, M., Freixa, A., & Bernal, S. (2025). Breaking barriers: Ten essential steps to achieve gender equality in academia through scientific societies. *Npj Biodiversity*, 4(1), 37. <https://doi.org/10.1038/s44185-025-00105-6>

Giménez-Romero, À., Hernández, C., Genovart, M., & Salguero Gómez, R. (2025). Population Structure Plays a Key Role in Community Stability. *Ecology Letters*, 28(12), e70272. <https://doi.org/10.1111/ele.70272>

Lubošny, M., Annasawmy, P., Burgués Martínez, I., Turk Dermastia, T., Espasandín, L., Fernandes, J. F., Fontela, M., Galobart, C., Garcia-Garin, O., Gregório, I., Llopis Monferrer, N., López-Acosta, M., Mazurkiewicz, M., Piñeiro-Juncal, N., Schadeberg, A., Scopetani, C., Sowa, A., Suaria, G., & Tsiola, A. (2025). How institutions can better support international early-career researchers. *Nature Human Behaviour*, 9(3), 421-423. <https://doi.org/10.1038/s41562-025-02125-5>

Pastor, A., Mendoza-Lera, C., Agell, G., Anton-Pardo, M., Bartrons, M., Bernal, S., Cañedo-Argüelles, M., Cussó, R., Catalán, N., Carrau, L., Feio, M. J., Džinović, M., Fernandes, I.,

Franco-Cisterna, B., Freixa, A., Genua-Olmedo, A., Hernández-del Amo, E., Lecina-Díaz, J., Leon-Palmero, E., ... Lupon, A. (2025). Women, Water, and the Climate Emergency: Art and Science for Bringing Ecofeminism to Society. *Limnology and Oceanography Bulletin*, 34(3), 100-103. <https://doi.org/10.1002/lob.10721>

Pelegrí, J. L., Bojanić, N., Pinto, P., Whyte, D., Annasawmy, P., Burgues, I., Bušelić, I., Carbajal, M. E., Fuster, N., Gian-noukakou-Leontsini, I., Hasler-Sheetal, H., Kaberi, H., Knigge, T., Leitão, F., Olivé, I., Palma, J., Platzgummer, E., Quintana, C. O., Simon, C., & Vrdoljak Tomaš, A. (2025). Collaborative bottom-up Trust Missions: A perspective on long-term strategies with and for people and Nature. *Npj Ocean Sustainability*, 4(1), 57. <https://doi.org/10.1038/s44183-025-00157-y>

Queirós, A. M., Ten Brink, T., Bas, M., Sweeting, C. J., McGuinness, S., Edwards, H., Talbot, E., Sørdaahl, P. B., Lønborg, C., R. Deecker-Simon, S., Elliott, M., Sardá, R., Fernandes-Salvador, J. A., Pretty, C., Var-jopuro, R., Virtanen, E. A., Gissi, E., Yates, K., Morf, A., ... Nic Aonghusa, C. (2025). The opportunity for climate action through climate-smart Marine Spatial Planning. *Npj Ocean Sustainability*, 4(1), 26. <https://doi.org/10.1038/s44183-025-00129-2>

Rocher-Ros, G., Gomez-Gener, L., Jativa, C., Lannergård, E. E., Laudon, H., Lupon, A., Martí, E., Peñarroya, X., Sponseller, R. A., & Bernal, S. (2025). Emerging patterns of CO₂ : O₂ dynamics in rivers and their link to ecosystem carbon processing. *Limnology and Oceanography Letters*, 10(6), 835-850. <https://doi.org/10.1002/lo12.70057>

SCIENTIFIC AND TECHNICAL REPORTS

Alemany, A. M., Pagès, J., Marco-Méndez, C., Sanmartí, N., García, M., Rodríguez-Arias, L., Ramis-Abad, P., Conesa, M., Alcoverro, T., (2025). *Seguiment de l'indicador*

fanerògames marines, Cymodocea nodosa, de la Directiva Marc de l'Aigua a les Badies del Delta de l'Ebre en el període del PSiC 2022-2024. ACA. <http://hdl.handle.net/10261/430049>

Hendriks, I. E., Pagès, J., Marbà, N., Conesa, M., Alcoverro, T., Cebrian, E., Iuculano, F., Steckbauer, A., Vaquer-Sunyer, R., Ricart, A. M., Piñeiro Juncal, N., Serrano, O., Mateo, M. A., (2025). *Informe sobre el potencial de mitigación de cambio climático de las fanerógamas y macroalgas marinas en España incluyendo áreas y hábitats repoblados*. CSIC. <http://hdl.handle.net/10261/430029>

Nogué, L., Osorio, V., Buñay, D., Gilbert, N., Mateos, B., Caner, J., Gómez, A., Buchaca, T., Ventura, M., (2025). *Seguiment de la recuperació de la fauna autòctona al Parc Natural de l'Alt Pirineu: Estanys de Garrabea i Rosari d'Àreu*. Forestal Catalana. <http://hdl.handle.net/10261/429964>

Nogué, L., Ventura, M., Buchaca, T., Caner, J., Chaoui Azghoul, F., Mateos, B., Pereira, E., Gómez, A., Osorio, V., Rocaspana, R. (2025). *Detecció de la madrilleja roja (Achondrostoma arcasii) al Riu Ondara mitjançant ADN ambiental*. ENVERS environmental services, SL. <http://hdl.handle.net/10261/429953>

Pagès, J., (2025). *Observaciones técnicas sobre el proyecto de extracción y regeneración de playas en el delta del Llobregat*. Generalitat de Catalunya. <http://hdl.handle.net/10261/430058>

Pagès, J., Alcoverro, T., Cebrian, E., Marbà, N., Hendriks, I. E., Conesa, M., Iuculano, F., Domínguez, E., (2025). *Evaluación de las presiones e impactos sobre los macrófitos marinos de la costa española: consecuencias para la provisión de servicios ecosistémicos*. CSIC. <http://hdl.handle.net/10261/430020>

Pagès, J., Conesa, M., Cebrian, E., Marbà, N., Hendriks, I. E., Alcoverro, T., (2025). *Recomendaciones futuras para la mitigación*

del cambio climático a través de los macrófitos marinos. CSIC. <http://hdl.handle.net/10261/430010>

Ventura, M., Osorio, V., Buñay, D., Gilbert, N., Nogué, L., Caner, J., Puig, M.A., Buchaca, T., (2025). *Surveillance du rétablissement de la biodiversité du lac Herbier*. Office National des Forêts. <http://hdl.handle.net/10261/429958>

Ventura, M., Osorio, V., Ortiz, J., Buñay, D., Albó Timor, A., Caner, J., Puig, M.A., Suh, J., Buchaca, T., (2025). *Échantillonnage de la biodiversité des lacs de Camporells et surveillance du rétablissement de la biodiversité du lac Herbier*. Office National des Forêts. <http://hdl.handle.net/10261/429959>

Research projects and grants

*Includes only projects with external funding (excluding CSIC grants and grants or projects related to staff and career)

VERSATILE EMERGING INFECTIOUS DISEASE OBSERVATORY (VEO). PI: Bartumeus Ferre, Frederic. **Funding programme:** Horizon 2020. **Total funding awarded to CEAB:** €691.975,00. **Period:** 2020-2025. **Ref.:** 874735.

HUMAN-MOSQUITO INTERACTION PROJECT: HOST-VECTOR NETWORKS, MOBILITY, AND THE SOCIO-ECOLOGICAL CONTEXT OF MOSQUITO-BORNE DISEASE (H-MIP). PI: Bartumeus Ferre, Frederic. **Funding programme:** Horizon 2020, ERC-StG. **Total funding awarded to CEAB:** €499.900,00. **Period:** 2020-2026. **Ref.:** 853271.

INVENTIVE FORECASTING TOOLS FOR ADAPTING WATER QUALITY MANAGEMENT TO A NEW CLIMATE (INVENTWATER). PI: Henry Pinilla, Daniela Alejandra. **Funding programme:** Horizon 2020, MSCA ITN. **Total funding awarded to CEAB:** €186.200,55. **Period:** 2021-2026. **Coordinated by CEAB-CSIC. Ref.:** 9566239.

ECO-EPIDEMIOLOGICAL INTELLIGENCE FOR EARLY WARNING AND RESPONSE TO MOSQUITO-BORNE DISEASE RISK IN ENDEMIC AND EMERGENCE SETTINGS (E4WARNING). PI: Bartumeus Ferre, Frederic. **Funding programme:** Horizon Europe. **Total funding awarded to CEAB:** €997.700,00. **Period:** 2023-2026. **Coordinated by CEAB-CSIC. Ref.:** 101086640.

MOBILE BIO-LAB TO SUPPORT FIRST RESPONSE IN ARBOVIRUS OUTBREAKS (MOBVEC). PI: Bartumeus Ferre, Frederic. **Funding programme:** Horizon Europe. **Total funding awarded to CEAB:** €440.750,00. **Period:** 2023-2027. **Ref.:** 101099283.

INFECTIOUS DISEASE DECISION-SUPPORT TOOLS AND ALERT SYSTEMS TO BUILD CLIMATE RESILIENCE TO EMERGING

HEALTH THREATS (IDALERT). PI: Bartumeus Ferre, Frederic. **Funding programme:** Horizon Europe. **Total funding awarded to CEAB:** €429.888,00. **Period:** 2022-2027. **Ref.:** 101057554.

ENHANCING SOCIAL WELL-BEING AND ECONOMIC PROSPERITY BY REINFORCING THE EFFECTIVENESS OF PROTECTION AND RESTORATION MANAGEMENT IN MEDITERRANEAN MPAS (EFFECTIVE). PI: Sarda Borroy, Rafael. **Funding programme:** Horizon Europe. **Total funding awarded to CEAB:** €386.929,16. **Period:** 2023-2027. **Ref.:** 101112752.

MARINE FOREST COASTAL RESTORATION: AN UNDERWATER GARDENING SOCIO-ECOLOGICAL PLAN (OCEAN CITIZEN). PI: Coma Bau, Rafael. **Funding programme:** Horizon Europe. **Total funding awarded to CEAB:** €339.034,31. **Period:** 2023-2026. **Ref.:** 101093910.

BEYOND THE CURRENT: IMPROVING EUROPEAN FLOWING WATERS IN AN ERA OF GLOBAL CHANGE (BEYOND). PI: Bernal Berenguer, Susana. **Funding programme:** Horizon Europe, MSCA-DN. **Total funding awarded to CEAB:** €257.911,20. **Period:** 2025-2028. **Ref.:** 101169293.

IMPROVING MONITORING AND ENVIRONMENTAL RISK ASSESSMENT OF PHARMACEUTICALS, ANTIMICROBIAL RESISTANCE AND PATHOGENS FROM TERRESTRIAL TO AQUATIC ENVIRONMENTS (PHARM-ERA). PI: Calvo Mora, David. **Funding programme:** Horizon Europe, MSCA DN. **Total funding awarded to CEAB:** €234.151,20. **Period:** 2024-2028. **Ref.:** 101119261.

COUPLING BIOGEOCHEMICAL ANALYSIS, ENVIRONMENTAL DNA AND ECOLOGICAL NETWORK ANALYSIS OF SEDIMENT

CORES TO RECONSTRUCT ENVIRONMENTAL HISTORY AND ECOSYSTEM CHANGES IN POSIDONIA OCEANICA MEADOWS. (POSIDONIARXIV). PI: Foster, Nicole. **Funding programme:** Horizon Europe, MSCA PF. **Total funding awarded to CEAB:** €181.152,96. **Period:** 2024-2026. **Ref.:** 101105307.

DELIVERING A UNIFIED RESEARCH ALLIANCE OF BIOMEDICAL AND PUBLIC HEALTH LABORATORIES AGAINST EPIDEMICS (DURABLE). PI: Bartumeus Ferre, Frederic. **Funding programme:** EU4H. **Total funding awarded to CEAB:** €400.916,00. **Period:** 2023-2027. **Ref.:** 101102733.

PROTIST PATHOBIOME-INVERTEBRATE INTERACTIONS: A MULTI-APPROACH TO UNDERSTAND MARINE DISEASES OF COMMERCIAL BIVALVES (PROPATHIN). PI: Alacid Fernandez, Elisabet. **Funding programme:** UE PM. Horizon Europe, MSCA PF. **Total funding awarded to CEAB:** €165.312,96. **Period:** 2024-2026. **Ref.:** 101110770.

IMPACTS OF CLIMATE, N AND P DEPOSITION AND LAND USE ON WATER AS A DRIVER OF THE GREENHOUSE GASES REGULATORY ECOSYSTEM SERVICE IN HEADWATER CATCHMENTS (SERVICO2). PI: Camarero Galindo, Luis. **Funding programme:** Partnership - Water4All. **Total funding awarded to CEAB:** €281.250,00. **Period:** 2025-2028. **Ref.:** PCI2025-163135.

MARINE BIODIVERSITY ASSESSMENT AND PREDICTION ACROSS SPATIAL, TEMPORAL AND HUMAN SCALES (BIOCEAN5D). PI: Turon Barrera, Francesc Xavier. **Funding programme:** Horizon Europe. **Total funding awarded to CEAB:** €123.770,00. **Period:** 2022-2026. **Ref.:** 101059915.

MONITORING RIVER METABOLISM TO ASSESS ECOSYSTEM SERVICES (BREATHE). PI: Bernal Berenguer, Susana. **Funding programme:** Partnership - Water4All. **Total funding awarded to CEAB:** €211.250,00. **Period:** 2025-2028. **Ref.:** PCI2025-163221.

INNOVATIVE TOOLS TO CONTROL ORGANIC MATTER AND DISINFECTION BYPRODUCTS IN DRINKING WATER (INTODBP). PI: Marce Romero, Rafael. **Funding programme:** Horizon Europe. **Total funding awarded to CEAB:** €115.598,81. **Period:** 2022-2026. **Ref.:** 101081728.

INNOVATIVE APPROACHES FOR RESCUE AND MANAGEMENT OF ALGAL FORESTS IN THE MEDITERRANEAN SEA (FORESCUE). PI: Cebrian Pujol, Emma. **Funding programme:** Partnership - Biodiversa+. **Total funding awarded to CEAB:** €213.036,00. **Period:** 2022-2025. **Ref.:** PCI2022-135070-2.

A RESEARCH AND INNOVATION PARTNERSHIP FOR ENHANCING THE SURVEILLANCE AND CONTROL OF MOSQUITO VECTORS OF EMERGING ARBOVIRUSES (INOVEC). PI: Bartumeus Ferre, Frederic. **Funding programme:** Horizon Europe, MSCA-SE. **Total funding awarded to CEAB:** €32.502,08. **Period:** 2023-2026. **Ref.:** 101086257.

MANAGING SUSTAINABLE SEA URCHIN FISHERY AND MARINE FOREST CONSERVATION. PI: Alcoverro Pedrola, M.Teresa. **Funding programme:** Partnership - Biodiversa+. **Total funding awarded to CEAB:** €172.569,00. **Period:** 2022-2025. **Ref.:** PCI2022-135067-2.

NATURE-INCLUSIVE DESIGNS FOR RECONCILING OFFSHORE RENEWABLES WITH OCEAN PROTECTION (NID4OCEAN). PI: Sarda Borroy, Rafael. **Funding programme:** Horizon Europe. **Total funding awarded to CEAB:** €13.533,79. **Period:** 2024-2027. **Ref.:** 101156861.

COORDINATED AND ADAPTIVE MONITORING OF BIODIVERSITY CHANGE ACROSS MEDITERRANEAN ROCKY ECOSYSTEMS (CAMBIOMED). PI: Cebrian Pujol, Emma. **Funding programme:** Partnership - Biodiversa+. **Total funding awarded to CEAB:** €127.542,06. **Period:** 2024-2027. **Ref.:** ERANET/1182.

SOCIAL AND ECOLOGICAL EFFECTS OF FISH REMOVAL IN MOUNTAIN ECOSYSTEMS (FISHME). PI: Buchaca Estany, Maria Teresa. **Funding programme:** Partnership - Biodiversa+. **Total funding awarded to CEAB:** €120.798,40. **Period:** 2022-2025. **Ref.:** PCI2022-132939.

MARINE SPONGE BIODIVERSITY FROM GENES TO ECOSYSTEMS: DELIVERING KNOWLEDGE AND TOOLS FOR SUSTAINABLE MANAGEMENT AND CONSERVATION (SPONBIODIV). PI: Maldonado Barahona, Manuel. **Funding programme:** Partnership Biodiversa+. **Total funding awarded to CEAB:** €59.982,00. **Period:** 2023-2026. **Ref.:** ERANET/1069.

DATA AND SCENARIOS FOR A SUSTAINABLE MEDITERRANEAN BLUE ECONOMY (MEDSEAPLAN). PI: Sarda Borroy, Rafael. **Funding programme:** Sustainable Blue Economy Partnership. **Total funding awarded to CEAB:** €96.250,00. **Period:** 2024-2027. **Ref.:** PCI2024-153532.

RESTORATION OF AQUATIC ECOSYSTEMS OF PROTECTED AREAS FROM THE ALPS AND PYRENEES (RESQUE ALPYR). PI: Buchaca Estany, Maria Teresa. **Funding programme:** LIFE. **Total funding awarded to CEAB:** €1.469.640,72. **Period:** 2022-2026. **Coordinat pel CEAB-CSIC.** **Ref.:** LIFE20 NAT/ES/000369.

SEGUIMIENTO DE ESPECIES MARINAS ALÓCTONAS EN LAS COSTAS DE OCCITANIA Y CATALUÑA (ALIEN OCCICAT). PI: Martin Sintés, Daniel. **Funding programme:** INTERREG POCTEFA. **Total funding awarded to CEAB:** €104.471,37. **Period:** 2025-2027. **Ref.:** EFA149/03.

PREPARING FOR VECTOR-BORNE VIRUS OUTBREAKS IN A CHANGING WORLD: A ONE HEALTH APPROACH (ONE HEALTH PACT). PI: Bartumeus Ferre, Frederic. **Funding programme:** Funding from Other European Countries. **Total funding awarded to CEAB:** €314.000,00. **Period:** 2020-2025. **Ref.:** 2019/NWA/00686468.

IMPROVING FITNESS TO FACE ARBOVIRAL OUTBREAKS IN WEST AFRICA: DEVELOPMENT OF COMMUNITY-LED APPROACHES FOR VECTOR SURVEILLANCE, CONTROL AND RISK PREDICTION IN OUAGADOUGOU, BURKINA FASO. (DENGRIIP). PI: Bartumeus Ferre, Frederic. **Funding programme:** Funding from Other European Countries. **Total funding awarded to CEAB:** €265.243,86. **Period:** 2024-2028. **Ref.:** NIHR156750.

PROYECTO DE LA ASSOCIATION FOR THE STUDY OF ANIMAL BEHAVIOUR (ASAB). PI: Jolles, Jolle Wolter. **Funding programme:** Funding from Other European Countries. **Total funding awarded to CEAB:** €1.798,50. **Period:** 2024-2025. **Ref.:** OTRI3832.

COMPORTAMIENTO SOCIAL EN ANIMALES: IMPACTO EN LA ECOLOGÍA DEL MOVIMIENTO Y DE POBLACIONES. PI: Oro De Rivas, Daniel. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €263.780,00. **Period:** 2022-2026. **Ref.:** PID2021-122893NB-C21.

AEROSOLIZACIÓN MICROBIANA Y SERVICIOS ECOSISTÉMICOS DE ZONAS HÚMEDAS EFÍMERAS EN ZONAS ÁRIDAS (DRYLANDS). PI: Ortega Casamayor, Emilio. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €262.500,00. **Period:** 2025-2028. **Ref.:** PID2024-158368NB-I00.

PERTURBACIONES DEL CICLO DEL CARBONO INDUCIDAS POR LA DESECCACIÓN DE LAGOS: STOCKS DE CARBONO. PI: Marce Romero, Rafael. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €250.000,00. **Period:** 2025-2028. **Ref.:** PID2024-161534NB-C31.

TRASPORTE Y RETENCIÓN DE MATERIA PARTICULADA ANTROPOGÉNICA EN RÍOS MEDITERRÁNEOS EN EL CONTEXTO DEL CAMBIO GLOBAL. PI: Guasch Padro, Helena. **Funding programme:** Plan

estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €248.750,00. **Period:** 2023-2026. **Ref.:** PID2022-143112NB-I00.

DISPERSIÓN DE LARGO ALCANCE Y POTENCIAL COLONIZADOR DE MICROORGANISMOS AEROTRANSPORTADOS EN MASAS DE POLVO SAHARIANO. **PI:** Ortega Casamayor, Emilio. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €211.750,00. **Period:** 2022-2026. **Ref.:** PID2021-127701NB-I00.

APROXIMACIÓN MOLECULAR Y CELULAR A LA PRODUCCIÓN DE SÍLICE EN ESPONJAS PARA AVANCES EVOLUTIVOS Y BIOTECNOLÓGICOS (Pro-Si). **PI:** Maldonado Barahona, Manuel. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €206.250,00. **Period:** 2024-2027. **Ref.:** PID2023-151426NB-I00.

RESILIENCIA DE LA BIODIVERSIDAD DE LOS LAGOS DE ALTA MONTAÑA AL CAMBIO GLOBAL: UNA APROXIMACIÓN PALEOECOLÓGICA PARA SU FUTURA CONSERVACIÓN. **PI:** Buchaca Estany, Maria Teresa. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €203.750,00. **Period:** 2024-2028. **Ref.:** PID2023-149616OB-I00.

DESVELANDO LAS ECUACIONES DINÁMICAS EN SISTEMAS ECO-EVOLUTIVOS EN UN CONTEXTO DE INCERTIDUMBRE AMBIENTAL Y DATOS LIMITANTES. **PI:** Alonso Gimenez, David. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €189.970,00. **Period:** 2022-2025. **Ref.:** PID2021-127202NB-C21.

TORMENTAS DE CAMBIO: COMO FENÓMENOS METEOROLÓGICOS EXTREMOS ALTERAN LOS ECOSISTEMAS COSTEROS MEDITERRANEOS, SUS SERVICIOS Y SU PERCEPCIÓN POR PARTE DE LA SOCIEDAD. **PI:** Alcoverro Pedrola, M.Teresa. **Funding programme:** Plan estatal. Ge-

neración de conocimiento. **Total funding awarded to CEAB:** €187.550,00. **Period:** 2021-2025. **Ref.:** PID2020-113745RB-I00.

PECES EN ARROYOS SECOS: DESDE LA COMPORTAMIENTO INDIVIDUAL Y SOCIAL A LA PERSISTENCIA DE POBLACIONES. **PI:** Jolles, Jolle Wolter. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €186.250,00. **Period:** 2023-2026. **Ref.:** PID2022-137874NA-I00.

BLUE DNA: AVANZANDO EN LAS APLICACIONES DE LAS TECNOLOGÍAS GENÓMICAS PARA LA CONSERVACIÓN Y GESTIÓN DE LA BIODIVERSIDAD MARINA. **PI:** Rius Viladomiu, Marc. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €186.250,00. **Period:** 2024-2027. **Ref.:** PID2023-146307OB-C22.

EL CARBONO AZUL DE PRADERAS MARINAS: DEL ECOSISTEMA A LOS MERCADOS (BLUESTOCK). **PI:** Mateo Minguez, Miguel Angel. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €175.000,00. **Period:** 2025-2029. **Ref.:** PID2024-156447OB-I00.

INFLUENCIA DEL CALENTAMIENTO Y LA DESOXIGENACIÓN EN LA BIOGEOQUÍMICA DE LOS RÍOS MEDITERRÁNEOS: QUÍMICA DEL AGUA Y CICLADO DE NUTRIENTES (OXIT-WAT). **PI:** Lupon Navazo, Anna. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €166.250,00. **Period:** 2025-2028. **Ref.:** PID2024-158111NB-C21.

EVALUANDO LOS IMPACTOS DE LA SALINIZACIÓN EN EL RÍO GAMBIA. **PI:** Catalan García, Nuria. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €150.000,00. **Period:** 2023-2026. **Ref.:** PID2022-140848NA-C32.

COSTA DINÁMICA, SOCIEDAD EN MOVIMIENTO? PI: Pages Fauria, Jordi. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €141.250,00. **Period:** 2024-2027. **Ref.:** PID2023-151732OA-I00.

INFLUENCIA DE LOS APORTES LATERALES DE CARBONO Y NITROGENO AL METABOLISMO FLUVIAL Y LA EVASION DE CO2 EN RIOS MEDITERRANEOS. PI: Bernal Berenguer, Susana. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €127.050,00. **Period:** 2022-2026. **Ref.:** PID2021-122817NB-I00.

HACIA LA COMPRESION DE LA DIMENSION TEMPORAL DEL PROCESO DE INVASION: IMPLICACIONES PARA LA RESTAURACION. PI: Rius Viladomiu, Marc. **Funding programme:** Plan estatal. Generación de conocimiento. TED. **Total funding awarded to CEAB:** €126.500,00. **Period:** 2022-2025. **Ref.:** TED2021-132228B-C22.

MICRODROUGHTPREDICT: PREDICCIÓN DE LA ADAPTACIÓN MICROBIANA A LA SEQUÍA CON GENÓMICA Y MACHINE LEARNING. PI: Ramoneda I Massague, Josep. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €100.000,00. **Period:** 2024-2026. **Ref.:** PID2023-151209NA-I00.

EVALUACION DE LA HUELLA BIOGEOQUIMICA DE LA CONFIGURACION DE LAS REDES FLUVIALES SOBRE EL PROCESADO DE CARBONO Y NUTRIENTES EN RIOS. PI: Lupon Navazo, Anna. **Funding programme:** Plan estatal. Generación de conocimiento. Europa Excelencia. **Total funding awarded to CEAB:** €91.610,00. **Period:** 2023-2025. **Ref.:** EUR2023-143456.

DEL COLAPSO A LAS SOLUCIONES. ECOSISTEMAS DE VEGETACION SUBMARINA COMO AGENTES DE MITIGACION AL CAMBIO CLIMATICO Y PUNTOS DE NO RETORNO. PI: Boada Garcia, Jordi. **Funding programme:** Plan estatal. Ge-

neración de conocimiento. **Total funding awarded to CEAB:** €78.750,00. **Period:** 2023-2026. **Ref.:** PID2022-140652NA-I00.

ANALISIS DE LAS DINAMICAS TRANSIENTS Y LA RESILIENCIA DEMOGRAFICA PARA MEJORAR LA CAPACIDAD PREDICTIVA EN BIOLOGIA DE LA CONSERVACION. PI: Genovart Millet, Meritxell. **Funding programme:** Plan estatal. Generación de conocimiento. **Total funding awarded to CEAB:** €72.600,00. **Period:** 2022-2026. **Ref.:** PID2021-124731NB-I00.

LOS CORREDORES RIPARIANOS Y SU FUNCIÓN COMO FILTROS VERDES DE NITRÓGENO EN CUENCAS HIDROGRAFICAS MEDITERRANEAS. PI: Bernal Berenguer, Susana. **Funding programme:** Plan estatal. Atraer y Retener Talento. **Total funding awarded to CEAB:** €199.944,00. **Period:** 2024-2026. **Ref.:** CNS2023-144737.

ASSESSING THE ROLE OF PREFERENTIAL LATERAL INFLOWS AS BIOGEOCHEMICAL HOT SPOTS ALONG MEDITERRANEAN FLUVIAL NETWORKS. PI: Lupon Navazo, Anna. **Funding programme:** Plan estatal. Programa Estatal para Desarrollar, Atraer y Retener Talento. **Total funding awarded to CEAB:** €178.957,00. **Period:** 2023-2025. **Ref.:** CNS2022-135690.

IMPULSANDO LA PARTICIPACION, EL LIDERAZGO Y LA INFLUENCIA TEMATICA DE ESPAÑA EN LA GLOBAL LAKE ECOLOGICAL OBSERVATORY NETWORK. PI: Marce Romero, Rafael. **Funding programme:** Plan estatal. Colaboración público privada. Redes. **Total funding awarded to CEAB:** €65.000,00. **Period:** 2025-2027. **Ref.:** RED2024-153728-E.

GRUPO ESPAÑOL DE EXPERTOS EN ECOSISTEMAS DE CARBONO AZUL. PI: Mateo Minguez, Miguel Angel. **Funding programme:** Plan estatal. Colaboración público privada. Redes. **Total funding awarded to CEAB:** €60.000,00. **Period:** 2025-2027. **Ref.:** RED2024-153711-E.

EFFECTOS DE AGUAS RESIDUALES EN RÍOS ALPINOS: ESTRATEGIAS DE MITIGACIÓN. PI: Merbt, Stephanie. **Funding programme:** Parques nacionales. **Total funding awarded to CEAB:** €82.003,17. **Period:** 2023-2026. **Ref.:** 2990/2023.

CAMBIOS EN LA FLORA ACUÁTICA DE LOS LAGOS DE LOS PIRINEOS RELACIONADOS CON EL CAMBIO GLOBAL (FLORACUA). PI: Gacia Pasola, Esperança. **Funding programme:** Parques nacionales. **Total funding awarded to CEAB:** €67.088,70. **Period:** 2021-2025. **Ref.:** 2825/2021.

MOSQUITO ALERT PARA JÓVENES: FOMENTANDO VOCACIONES CIENTÍFICAS A PARTIR DE LA CIENCIA CIUDADANA. PI: Escartin Peña, Santi. **Funding programme:** Cultura científica, FECYT. **Total funding awarded to CEAB:** €18.000,00. **Period:** 2024-2025. **Ref.:** FCT-23-19406.

EMERGENCIA CLIMÁTICA Y AGUA: ILUSTRACIONES AUMENTADAS CON VOZ DE MUJER II (AUMENTADOS). PI: Lupon Navazo, Anna. **Funding programme:** Cultura científica, FECYT. **Total funding awarded to CEAB:** €15.000,00. **Period:** 2024-2025. **Ref.:** FCT-23-19570.

EMERGENCIA CLIMÁTICA Y AGUA: ILUSTRACIONES AUMENTADAS CON VOZ DE MUJER (AUMENTA-III). PI: Lupon Navazo, Anna. **Funding programme:** Cultura científica, FECYT. **Total funding awarded to CEAB:** €12.000,00. **Period:** 2025-2026. **Ref.:** FCT-24-21592.

MOSQUITO ALERT PARA JÓVENES: FOMENTANDO VOCACIONES CIENTÍFICAS A PARTIR DE LA CIENCIA. PI: Bartumeus Ferre, Frederic. **Funding programme:** Cultura científica, FECYT. **Total funding awarded to CEAB:** €participació sense finançament. **Period:** 2025-2026. **Ref.:** FCT-24-20596.

BIOPLASTICS DECOMPOSITION AND EFFECTS ON FRESHWATER ECOSYSTEMS UNDER GLOBAL CHANGE THREATS. PI: Bonet Sanchez, Berta.

Funding programme: ComFuturo, Fundación General CSIC. **Total funding awarded to CEAB:** €222.228,00. **Period:** 2023-2026. **Ref.:** OTR10231.

BESSONS DIGITALS PER A LA PREDICCIÓ I GESTIÓ DE LA QUALITAT DE L'AIGUA I LA DINÀMICA DE LA LÍNIA COSTANERA A LES CONQUES INTERNES DE CATALUNYA, AMB ESPECIAL ATENCIÓ A LES SEQUERES I ALTRES FENÒMENS CLIMÀTICS EXTREMS (NEREIDA). PI: Marce Romero, Rafael. **Funding programme:** GCT –Call for grants for research, development and innovation (R&D&I) projects in water management and the preservation and improvement of the aquatic environment (Agència Catalana de l'Aigua). **Total funding awarded to CEAB:** €171.834,28. **Period:** 2025-2028. **Ref.:** RD1001/24/000044.

Outreach activities and press notes

SCIENCE CULTURE ACTIVITIES

Cineforum: “Memories d’un mar”

- **Total participants:** 215
- **No. of sessions:** 2
- **Municipalities:** Madrid, Barcelona
- **Institutions involved:** Casa Asia, CSIC Catalunya, CSIC Madrid
- **Format:** Documentary screening and round-table discussion

CEAB night: Ecology and complexity

- **Total participants:** 150
- **No. of sessions:** 1
- **Municipalities:** Blanes
- **Institutions involved:** CEAB
- **Format:** Participatory scientific tour

L’impacte del canvi climàtic en la salut global

- **Total participants:** 22
- **No. of sessions:** 1
- **Municipalities:** Blanes
- **Institutions involved:** IDALERT project
- **Format:** Workshop

Biodiversitat oculta

- **Total participants:** 250
- **No. of sessions:** 1
- **Municipalities:** Barcelona
- **Institutions involved:** Museu Marítim de Barcelona
- **Format:** Family science fair

Guided visits to the exhibition: “Espècies invasores marines, l’amenaça silenciosa”

- **Total participants:** 85
- **No. of sessions:** 3
- **Municipalities:** Barcelona
- **Institutions involved:** Museu Marítim de Barcelona, CEAB
- **Format:** Guided visit

“Boscors marins”

- **Total participants:** 80
- **No. of sessions:** 2
- **Municipalities:** Vidreres, Girona
- **Institutions involved:** Ajuntament de Vidreres, CaixaForum Girona
- **Format:** Talk

Aula Blanes. “CEAB: 40 anys de ciència connectant Blanes amb el món”

- **Total participants:** 243
- **No. of sessions:** 1
- **Municipalities:** Blanes
- **Institutions involved:** Aula Blanes
- **Format:** Talk

Rotary Green Meeting

- **Total participants:** 100
- **No. of sessions:** 1
- **Municipalities:** Girona
- **Institutions involved:** Rotary Club
- **Format:** Talk

Workshop: “La difusió de la resistència als antibiòtics al medi ambient”

- **Total participants:** 15
- **No. of sessions:** 1
- **Municipalities:** Blanes
- **Institutions involved:** PHARMERA project
- **Format:** Workshop

“La ciència rere les càmeres”

- **Total participants:** 70
- **No. of sessions:** 1
- **Municipalities:** Blanes
- **Institutions involved:** Ajuntament de Blanes
- **Format:** Interactive audiovisual talk

Open day

- **Total participants:** 40
- **No. of sessions:** 1
- **Municipalities:** Blanes
- **Institutions involved:** CEAB
- **Format:** Guided visit

Exhibition: “Espècies invasores marines, l’amença silenciosa”

- **Total participants:** 14.000
- **No. of sessions:** 1 exhibition period
- **Municipalities:** Barcelona
- **Institutions involved:** Museu Marítim de Barcelona
- **Format:** Exposition

Mountain Open Talks 2025

- **Total participants:** 15
- **No. of sessions:** 1
- **Delivery format:** Online
- **Institutions involved:** Centre Excursionista de Sabadell
- **Format:** Talk

Debates around the exhibition: “Eco-feminismos aumentados: Clima, agua, mujeres”

- **Total participants:** 410
- **No. of sessions:** 8
- **Municipalities:** Barcelona, Pontevedra, Cerdanyola, Madrid, Uppsala
- **Institutions involved:** Various cultural and academic institutions
- **Format:** Round table

“¿Debe preocupar la expansión de los mosquitos para nuestra salud?”

- **Total participants:** 130
- **No. of sessions:** 1
- **Municipalities:** Barcelona
- **Institutions involved:** CaixaForum – Palau Macaya
- **Format:** Round table

Science outreach audiovisual production: “SALBIA: A salty threat to the river Gambia”

- **Format:** Science communication audiovisual
- **Observations:** In-house production (Salbia project), with no data available on in-person attendance.

SCIENCE EDUCATION ACTIVITIES

Science workshops (7 activities · 1.713 participants)

“Qui ha matat a les algues?”

- **No. of sessions:** 11
- **Total participants:** 909
- **Educational level:** Primary and secondary education (6 to 16 years)

- **Municipalities:** Blanes, Lloret de Mar, Tordera, Palafròls
- **Framework:** Marine Forest outreach project

“Ecocuentos aumentados: Clima, agua, mujeres”

- **No. of sessions:** 6
- **Total participants:** 405
- **Educational level:** Primary education (6 to 11 years)
- **Municipalities:** Blanes, Malgrat de Mar
- **Framework:** AUMENTA II outreach project

“Tempestes i protecció costa”

- **No. of sessions:** 2
- **Total participants:** 90
- **Educational level:** Secondary education (12 to 16 years)
- **Municipalities:** Barcelona
- **Framework:** Science week

“Desxifrant l’oceà”

- **No. of sessions:** 2
- **Total participants:** 68
- **Educational level:** Secondary and upper secondary education (12 to 18 years)
- **Municipalities:** Blanes
- **Framework:** CEAB-led activity

“Aprenent a fer ciència”

- **No. of sessions:** 1
- **Total participants:** 40
- **Educational level:** Secondary education (12 to 16 years)
- **Municipalities:** Blanes
- **Framework:** CEAB-led activity

“Avaluació de la capacitat de depuració de diferents ecosistemes aquàtics”

- **No. of sessions:** 1
- **Total participants:** 25
- **Educational level:** Secondary education (12 to 16 years)

- **Municipalities:** Blanes
- **Framework:** CEAB-led activity

Mosquito Alert

- **No. of sessions:** 1
- **Total participants:** 15
- **Educational level:** Secondary education (12 to 16 years)
- **Municipalities:** Blanes
- **Framework:** Mosquito Alert outreach project

Science talks (2 activities · 958 participants)

“Una visió femenina de la ciència”

- **No. of sessions:** 12
- **Total participants:** 868
- **Educational level:** Upper secondary, vocational and adult education (+16 years)
- **Municipalities:** Blanes, Barcelona, Madrid
- **Framework:** IIF (International Day of Women and Girls in Science)

Marine Forest

- **No. of sessions:** 1
- **Total participants:** 90
- **Educational level:** Secondary education (12 to 16 years)
- **Municipalities:** Blanes
- **Framework:** Marine Forest outreach project

Science tours (3 activities · 205 participants)

“Rastrejant els mosquits: un repte per a la ciència ciutadana”

- **No. of sessions:** 2
- **Total participants:** 88
- **Educational level:** Secondary and upper secondary education (12 to 18 years)
- **Municipalities:** Blanes
- **Framework:** Science week

“Boscots sota el mar”

- **No. of sessions:** 4
- **Total participants:** 74
- **Educational level:** Upper secondary education (16 to 18 years)
- **Municipalities:** Blanes
- **Framework:** Science week

“Estanys d’alta muntanya: ciència per conservar ecosistemes vulnerables”

- **No. of sessions:** 1
- **Total participants:** 43
- **Educational level:** Upper secondary education (16 to 18 years)
- **Municipalities:** Palafrugell
- **Framework:** Science week

Exhibitions

(2 activities · 400 participants)

“Endintsant-nos en l’oceà”

- **No. of sessions:** 2
- **Total participants:** 300
- **Educational level:** Secondary education (12 to 16 years)
- **Municipalities:** Barcelona
- **Framework:** Ciudad Ciencia

“Natura i conservació de zones humides dels Pirineus”

- **No. of sessions:** 1
- **Total participants:** 100
- **Educational level:** Secondary education (12 to 16 years)
- **Municipalities:** Blanes
- **Framework:** CEAB-led activity

Teacher training

(1 activity · 88 participants)

Mosquito Alert Educational Programme

- **No. of sessions:** 1

- **Total participants:** 88
- **Educational level:** Teachers
- **Municipalities:** Barcelona
- **Framework:** Mosquito Alert outreach project

Fairs and events

(1 activity · 200 participants)

Closing event of the Mosquito Alert Educational Programme

- **No. of sessions:** 1
- **Total participants:** 200
- **Educational level:** Primary and secondary education (6 to 16 years)
- **Municipalities:** Blanes
- **Framework:** Mosquito Alert outreach project

School-based educational programmes

(1 programme · 2.152 participants)

Mosquito Alert Educational Programme

- **No. of sessions:** 1
- **Total participants:** 2.152
- **Educational level:** Primary, secondary and upper secondary education (6 to 18 years)
- **Municipalities:** Nationwide (Spain) and Barcelona
- **Framework:** Mosquito Alert outreach project (FECYT, ASPB i Oficina de Ciència Ciutadana)

PRESS NOTES

Espècies invasores marines, una amenaça silenciosa | *January, 7* <https://www.ceab.csic.es/especies-invasores-marines-una-amenaca-silenciosa/>

Una recerca que avalua l'impacte climàtic de les preses | *January, 14* <https://www.ceab.csic.es/una-recerca-que-avalua-limpacte-climatic-de-les-preses/>

Detectada una nova espècie exòtica amb potencial invasor | *January, 16* <https://www.ceab.csic.es/detectada-una-nova-especie-exotica-amb-potencial-invasor/>

Impactes duradors del temporal Gloria | *January, 20* <https://www.ceab.csic.es/impactes-duradors-del-temporal-gloria/>

La Comissió Europea selecciona una innovació del projecte MOBVEC | *January, 27* <https://www.ceab.csic.es/la-comissio-europea-selecciona-una-innovacio-del-projecte-mobvec/>

Una nova tècnica per restaurar “boscos” de coralls tous | *January, 29* <https://www.ceab.csic.es/una-nova-tecnica-per-restaurar-boscos-de-coralls-tous/>

Dia Mundial de les Zones Humides 2025 | *February, 2* <https://www.ceab.csic.es/15173/>

11F: una data per visibilitzar les dones en la ciència i els reptes pendents | *February, 7* <https://www.ceab.csic.es/11f-una-data-per-visibilitzar-les-dones-en-la-ciencia-i-els-reptes-pendents/>

Bacteris i fongs del Sàhara: una presència constant al cel del sud d'Europa amb impactes en els ecosistemes i en la salut | *February, 18* <https://www.ceab.csic.es/bacteris-i-fongs-del-sahara-una-presencia-constant-al-cel-del-sud-deuropa-amb-impactes-en-els-ecosistemes-i-en-la-salut/>

El CEAB aconsegueix el distintiu “Sagrario Martínez Carrera” | *February, 21* <https://www.ceab.csic.es/15486/>

Frenar la pèrdua de biodiversitat per afavorir la nostra salut i benestar | *February, 24* <https://www.ceab.csic.es/frenar-la-perdua-de-biodiversitat-per-afavorir-la-nostra-salut-i-benestar/>

Com la supercomputació està transformant la recerca científica | *March, 3* <https://www.ceab.csic.es/com-la-supercomputacio-esta-transformant-la-recerca-cientifica/>

“Hem trobat plàstics dins de peixos dels anys 50” | *March, 11* <https://www.ceab.csic.es/hem-trobat-plastics-dins-de-peixos-dels-anys-50/>

L'Urban River Lab, distingit amb el Premi de l'Aigua per la seva recerca pionera | *March, 19* <https://www.ceab.csic.es/lurban-river-lab-distingit-amb-el-premi-de-laigua-per-la-seva-recerca-pionera/>

Docufòrums: “Mar d'Aral, el laboratori viu més gran del món” | *March, 24* <https://www.ceab.csic.es/docuforums-mar-daral-el-laboratori-viu-mes-gran-del-mon/>

Les evidències més antigues de l'ús humà de plantes marines es remunten a fa 180.000 anys | *March, 28* <https://www.ceab.csic.es/les-evidencias-mes-antigues-de-lus-huma-de-plantes-marines-es-remunten-a-fa-180-000-anys/>

Doctorands de diferents punts d'Europa investiguen els riscos ambientals dels residus farmacèutics i possibles solucions | *April, 7* <https://www.ceab.csic.es/doctorands-de-diferents-punts-deuropa-investiguen-els-riscos-ambientals-dels-residus-farmaceutics-i-possibles-solucions/>

Ciència col·laborativa per estudiar els llacs del món | *April, 11* <https://www.ceab.csic.es/ciencia-collaborativa-per-estudiar-els-llacs-del-mon/>

Identifiquen nous factors clau que regulen l'eliminació natural de nitrats dels rius | *April, 24* <https://www.ceab.csic.es/identifiquen-nous-factors-clau-que-regulen-leliminacio-natural-de-nitrats-dels-rius/>

Esculls artificials inspirats en els naturals per proporcionar hàbitats i afavorir la biodiversitat | *April*, 29 <https://www.ceab.csic.es/esculls-artificials-inspirats-en-els-naturals-per-proporcionar-habitats-i-afavorir-la-biodiversitat/>

Distinció honorífica de la Society for Freshwater Science | *May*, 5 <https://www.ceab.csic.es/distincio-honorifica-de-la-society-for-freshwater-science/>

Jornada de l'itinerari Cicerón sobre la recuperació de la biodiversitat | *May*, 8 <https://www.ceab.csic.es/jornada-de-litinerari-ciceron-sobre-la-recuperacio-de-la-biodiversitat/>

Com es propaguen les malalties transmeses per mosquits? Recerca científica per a la salut pública | *May*, 11 <https://www.ceab.csic.es/com-es-propaguen-les-malalties-transmeses-per-mosquits-recerca-cientifica-per-a-la-salut-publica/>

Els animals de sang calenta han adoptat una estratègia de vida lenta per adaptar-se al medi marí | *May*, 13 <https://www.ceab.csic.es/la-ciencia-posa-llum-al-misteri-de-la-llarga-vida-de-les-balenes-i-altres-animals-marins/>

Un nou pas per reforçar l'excel·lència científica | *May*, 15 <https://www.ceab.csic.es/un-nou-pas-per-reforcar-l-excellencia-cientifica/>

Un estudi alerta del declivi del zooplàncton adaptat al fred als estanys d'alta muntanya | *May*, 23 <https://www.ceab.csic.es/un-estudi-alerta-del-declivi-del-zooplankton-adaptat-al-fred-als-estanys-dalta-muntanya/>

La reducció del període de congelació als llacs boreals dispara la seva contribució a l'escalfament global | *May*, 29 <https://www.ceab.csic.es/la-reduccio-del-periode-de-congelacio-als-llacs-boreals-dispara-la-seva-contribucio-a-lescalfament-global/>

2.250 alumnes de tot l'Estat han participat aquest curs en el programa educatiu de Mosquito Alert | *May*, 30 <https://www.ceab.csic.es/2-250-alumnes-de-tot-lestat-han-participat-aquest-curs-en-el-programa-educatiu-de-mosquito-alert/>

[csic.es/2-250-alumnes-de-tot-lestat-han-participat-aquest-curs-en-el-programa-educatiu-de-mosquito-alert/](https://www.ceab.csic.es/2-250-alumnes-de-tot-lestat-han-participat-aquest-curs-en-el-programa-educatiu-de-mosquito-alert/)

Unint disciplines per a la vigilància de les malalties transmeses per vectors | *June*, 4 <https://www.ceab.csic.es/unint-disciplines-per-a-la-vigilancia-de-les-malalties-transmeses-per-vectors/>

Impuls de la cultura oceànica entre tots els sectors de la societat | *June*, 5 <https://www.ceab.csic.es/fomentant-la-cultura-oceanica-entre-tots-els-sectors-de-la-societat/>

Participa en la recerca als estanys d'alta muntanya: ciència ciutadana amb el LIFE RESQUE ALPYR | *June*, 12 <https://www.ceab.csic.es/participa-en-la-recerca-dels-estanys-dalta-muntanya-fes-ciencia-ciutadana-amb-el-life-resque-alpyr/>

Observadors del Mar, guardonat als III Premis de Divulgació Científica | *June*, 18 <https://www.ceab.csic.es/observadores-del-mar-guardonat-als-iii-premis-de-ciencia-ciudadana/>

La continuïtat dels herbassars marins, clau per a la supervivència de dugongs malgrat les pressions humanes | *June*, 25 <https://www.ceab.csic.es/la-continuitat-dels-herbassars-marins-clau-per-a-la-supervivencia-de-dugongs-malgrat-les-pressions-humanes/>

Cap a un atlas genòmic de la biodiversitat mundial | *July*, 2 <https://www.ceab.csic.es/cap-a-un-atlas-genomic-de-la-biodiversitat-mundial/>

Reforç del seguiment de l'alga asiàtica invasora *Rugulopteryx okamurae* al litoral català | *July*, 3 <https://www.ceab.csic.es/reforc-del-seguiment-de-lalga-rugulopteryx-okamurae-al-litoral-catala/>

Endinsa't en el CEAB-CSIC amb el seu nou vídeo institucional | *July*, 10 <https://www.ceab.csic.es/endinsat-en-el-ceab-b%e2%80%90csic-amb-el-seu-nou-video-institucional/>

El mosquit tigre ha estat detectat en 156 municipis a l'estat espanyol des de 2023 | July, 17 <https://www.ceab.csic.es/el-mosquit-tigre-ha-estat-detectat-en-156-municipis-a-lestat-espanyol-des-de-2023/>

Beca en homenatge al destacat biòleg marí Enric 'Kike' Ballesteros | July, 29 <https://www.ceab.csic.es/beca-en-homenatge-al-destacat-biolog-mari-enric-kike-ballesteros/>

Les conques de capçalera, claus en la regulació dels gasos d'efecte hivernacle | August, 4 <https://www.ceab.csic.es/les-conques-de-capcalera-claus-en-la-regulacio-dels-gasos-defecte-hivernacle/>

Descobreixen, al Mediterrani, una nova espècie d'ascidi que es pot moure essent adult | August, 7 <https://www.ceab.csic.es/descobreixen-al-mediterrani-una-nova-especie-dascidi-que-es-pot-moure-essent-adult/>

Les formigues, un "cervell líquid" on la diversitat de moviments i la complexitat d'interaccions són claus per a l'eficiència col·lectiva | August, 11 <https://www.ceab.csic.es/les-formigues-un-cervell-liquid-on-la-diversitat-de-moviments-i-la-complexitat-dinteraccions-son-claus-per-a-leficiencia-collectiva/>

Investiguem com els peixos sobreviuen en rius intermitents utilitzant rius catalans com a model | August, 18 <https://www.ceab.csic.es/investiguem-com-els-peixos-sobreviuen-en-rius-intermitents-utilitzant-rius-catalans-com-a-model/>

Un quart de segle de dades revela que gairebé la meitat dels coralls s'han perdut per les onades de calor marines | August, 28 <https://www.ceab.csic.es/un-quart-de-segle-de-dades-revela-que-gairebe-la-meitat-dels-coralls-shan-perdut-per-les-onades-de-calor-marines/>

Un nou dispositiu solar, econòmic i d'electrònica oberta, permet el seguiment continu de fauna salvatge en zones remotes | September, 2 <https://www.ceab.csic.es/>

[un-nou-dispositiu-solar-economic-i-delectronica-oberta-permet-el-seguiment-continu-de-fauna-salvatge-en-zones-remotes/](https://www.ceab.csic.es/un-nou-dispositiu-solar-economic-i-delectronica-oberta-permet-el-seguiment-continu-de-fauna-salvatge-en-zones-remotes/)

Nova prova pilot per la restauració ecològica d'estanys d'alta muntanya | September, 3 <https://www.ceab.csic.es/nova-prova-pilot-per-la-restauracio-ecologica-destanys-dalta-muntanya/>

Mosquits invasors: 20 anys de seguiment resulten en un mapa de distribució a escala municipal | September, 5 <https://www.ceab.csic.es/17594/>

Un nou estudi alerta de les implicacions ecològiques de la nova onada d'industrialització que pateix la Costa Brava | September, 9 <https://www.ceab.csic.es/un-nou-estudi-alerta-de-les-implicacions-ecologiques-de-la-nova-onada-dindustrialitzacio-que-pateix-la-costa-brava/>

La Nit del CEAB 2025 posa el focus en l'ecologia i els sistemes complexos | September, 17 <https://www.ceab.csic.es/la-nit-del-ceab-2025-posa-el-focus-en-lecologia-i-els-sistemes-complexos/>

Una tesi revela que els contaminants poden ser més tòxics en condicions reals i mostra les limitacions dels líndars actuals | September, 30 <https://www.ceab.csic.es/una-tesi-doctoral-demostra-que-els-contaminants-quimics-poden-ser-mes-toxics-en-condicions-reals-evidenciant-les-limitacions-dels-llindars-de-contaminacio-actuals/>

Crida a la ciutadania per estudiar l'estat dels "boscors marins" de les costes mediterrània i nord-atlànica | October, 3 <https://www.ceab.csic.es/crida-a-la-ciutadania-per-estudiar-lestat-dels-boscors-marins-de-les-costes-mediterrania-i-nord-atlantica/>

40 anys de Ciència | October, 14 <https://www.ceab.csic.es/40-any-de-ciencia/>

El CSIC i AstraZeneca impulsen un projecte d'aiguamolls artificials | October, 17 <https://www.ceab.csic.es/el-csic-i-astrazeneca-impulsen-un-projecte-experimental-daiguamolls-artificials/>

La cura de persones grans accentua la bretxa de gènere en la carrera acadèmica | *October, 27* <https://www.ceab.csic.es/la-cura-de-persones-grans-accentua-la-bretxa-de-gener-en-la-carrera-academica/>

Primer inventari mundial del carboni retingut per les praderies submarines | *November, 4* <https://www.ceab.csic.es/primer-inventari-mundial-del-carboni-retingut-per-les-praderies-submarines/>

El CEAB-CSIC obre les seves portes per apropar l'ecologia marina, d'aigües continentals i la teoria ecològica a la ciutadania | *November, 10* <https://www.ceab.csic.es/el-ceab-csic-obre-les-seves-portes-per-apropar-lecologia-marina-daigues-continentals-i-la-teoria-ecologica-a-la-ciutadania/>

Recuperant estanys d'alta muntanya. Entrevista als coordinadors científics del Life Resque Alpyr | *November, 18* <https://www.ceab.csic.es/recuperant-estanys-dalta-muntanya-en-trevista-als-coordinadors-cientifics-del-life-resque-alpyr/>

Homenatge a Enric “Kike” Ballesteros | *December, 2* <https://www.ceab.csic.es/homenatge-a-enric-kike-ballesteros/>

Les diferències entre adults i juvenils afavoreixen l'estabilitat dels ecosistemes | *December, 11* <https://www.ceab.csic.es/les-diferencias-entre-adults-i-juvenils-afavoreixen-lestabilitat-dels-ecosistemes/>

Els ‘halos’ de les garotes, una nova eina per detectar ecosistemes en risc | *December, 16* <https://www.ceab.csic.es/els-halos-de-les-garotes-una-nova-eina-per-detectar-ecosistemes-en-risc/>



www.ceab.csic.es

*“We are water.
We are science.”*



MINISTERIO
DE CIENCIA, INNOVACIÓN
Y UNIVERSIDADES



CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



CEAB
Centre d'Estudis Avançats de Blanes

MaX
MARCO DE
ANÁLISIS Y EVALUACIÓN DE LA
EXCELENCIA