

Annual Report 2025





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Curved LED light screen. Visual metaphor of quantum computing.

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CSIC

CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

Annual Report 2025



Letter from the president



Eloísa del Pino Matute
PRESIDENT OF THE CSIC

This report, which includes the collective activity carried out by members of the Spanish National Research Council (CSIC), once again shows our strong joint effort to produce universal, rigorous, and excellent knowledge and to transfer it to society. The accountability exercise entailed by the publication of this report reflects that the CSIC is an institution committed to giving back to society, in diverse ways, the trust it has placed in us.

Firstly, the CSIC holds a prominent position among the most important scientific bodies, ranking third in Europe and sixth worldwide in terms of scientific output. In recent years, we have grown significantly, from 13,888 people in 2022—when this team assumed the presidency—to 17,471 in December 2025. All have contributed, in one way or another, to the fact that by 2025, the figure of 6,300 current scientific projects had been reached, managing global funding of more than 1,300 million euros, with scientific output exceeding 17,000 publications. The international vocation has also been reinforced through

participation in 760 projects under the European Framework Programme and collaboration with institutions in 75 countries, consolidating the CSIC as a relevant player in the main international scientific consortia. This global projection is complemented by a firm commitment to training talent, reflected in hundreds of supervised doctoral theses and learning programmes that ensure generational renewal and future excellence in research.

The CSIC has made progress in all areas of human knowledge. In the social sciences and humanities, key issues such as inequality, technological change, and interpretation of the historical past have been addressed, offering new perspectives on complex phenomena that affect our societies. In the life sciences, achievements include significant advances in the understanding and treatment of cancer, neurodegenerative diseases, and antimicrobial resistance, as well as in biotechnology and sustainable food production. In the fields of physical, chemical, and material sciences,

innovations in biomedical diagnostics, quantum technologies, new functional materials, emergent computing, and energy stand out, opening new opportunities for technological development.

Secondly, the commitment to transfer and innovation is demonstrated by the fact that, once again, the CSIC has been the national leader, whether public or private, in filing European patents in Spain. In 2025, 145 new priority patents were filed, 11 technology-based companies were created, and 2,064 contracts and agreements were signed with public and private entities, generating 3.28 million euros in royalties and more than 40 million euros in contracted financing. This effort is complemented by strategic initiatives, such as CSIC COCREA, which has mobilised companies in key technological areas—artificial intelligence, quantum technologies, and advanced materials—to address industrial challenges such as decarbonisation, energy storage, and water optimisation. Likewise, the CSIC



EMPRENDE program has promoted new innovative companies in sectors such as biotechnology, nanotechnology, microelectronics, and sustainable water management. For its part, the CONVERGE Open Innovation Hub has facilitated direct connections between 919 researchers and 438 companies and agents in the innovation ecosystem, strengthening dialogue between science, business, and public administrations, and accelerating the transfer of science-based solutions to society.

I would also like to highlight the contribution to scientific advice for public policies that, in 2025, led to the preparation of 9,374 reports for public administrations, 90% of which were for national bodies, particularly ministries such as those for Ecological Transition and Demographic Challenge and for Agriculture, Fisheries, and Food. The CSIC has worked with governments at all levels in times of normality and of emergency and crisis, such as last year, during the fires of Las Médulas, the floods of Grazalema, or the follow-up of the DANA catastrophe.

We have also continued to strengthen our commitment to society through more than 20,000 initiatives in scientific culture and citizen science, bringing knowledge closer to hundreds of thousands of people. Activities such as the European Researchers' Night, Science Week, and programmes such as Science City and Science in the Neighbourhood have helped promote critical thinking and interest in science among citizens.

This year has also been particularly relevant in the institutional sphere. We have consolidated our research support structures through a network of 121 institutes, three national centres, 17 Interdisciplinary Thematic Platforms, and large national and international scientific infrastructures—such as ICTS-Doñana, NANBIOSIS, or the oceanographic fleet—reinforcing our capacity to address complex challenges from a multidisciplinary perspective.

At the same time, we have advanced in key cross-cutting areas. In terms of equality, the CSIC has been recognised

with the "EU Award for Gender Equality Champions", reflecting a sustained commitment that translates into progressive improvements in the representation of women—such as 39.7% of women centre directors—and in the reduction of structural gaps. In terms of sustainability, more than 850 actions have been promoted across the institution, and 94 sustainability committees have been established (present in 76% of the centres), in addition to the creation of the CSIC Sustainability Badge.

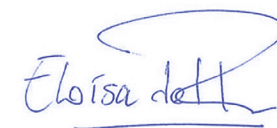
In the field of ethics and scientific integrity, 829 ethical evaluations of projects and 549 specific evaluations of research activities have been conducted, ensuring that scientific progress is performed in accordance with the highest standards of responsibility.

Finally, 2025 has ended with numerous important challenges in terms of management, of which I will highlight six fundamental ones that, as a priority, must be addressed in 2026: improving the career of the

technical staff working in the agency; the negotiation of a new productivity model (to be called Productivity Pro+), which allows attracting and retaining the best talent; the consolidation of the new occupational risk protection system; progress in gender equality; the approach to the next phase of the implementation of the ICT and Artificial Intelligence Strategies; and, perhaps the greatest because it affects all the others, the configuration of a new Management Contract and a responsible, sufficient multi-year budget so that the country's main scientific body can consolidate the modernization that it has begun in recent years.

My sincere thanks to all those who make this work possible with their dedication, talent, and vocation for public service.

Eloísa del Pino




Presentation CSIC

1st

Public Research
Institution in Spain

3rd

European

6th

Worldwide



SCIMAGO
INSTITUTIONS
RANKINGS

Objective: to promote scientific progress to improve the living conditions of the population and the planet.

3

Global
Scientific-Technical
Areas

121

Research
Institutes

Brussels

Spain

Rome

3

National
Centres

18

Institutional
delegations

Headquarters

SERRANO, 117. 28006 MADRID



www.csic.es



LIFE
BIOLOGY AND BIOMEDICINE
EARTH AND ENVIRONMENT
FOOD SCIENCE AND TECHNOLOGY
AGRICULTURAL SCIENCES

SOCIETY
SOCIAL SCIENCES
HUMANITIES

MATTER
TECHNOLOGY AND MATERIALS SCIENCE
TECHNOLOGY, MATHEMATICS, PHYSICAL SCIENCE AND COMPUTING
CHEMICAL SCIENCE

MEMBER
OF THE
European
Scientific



17,471

people promote
research

8,871

8,600

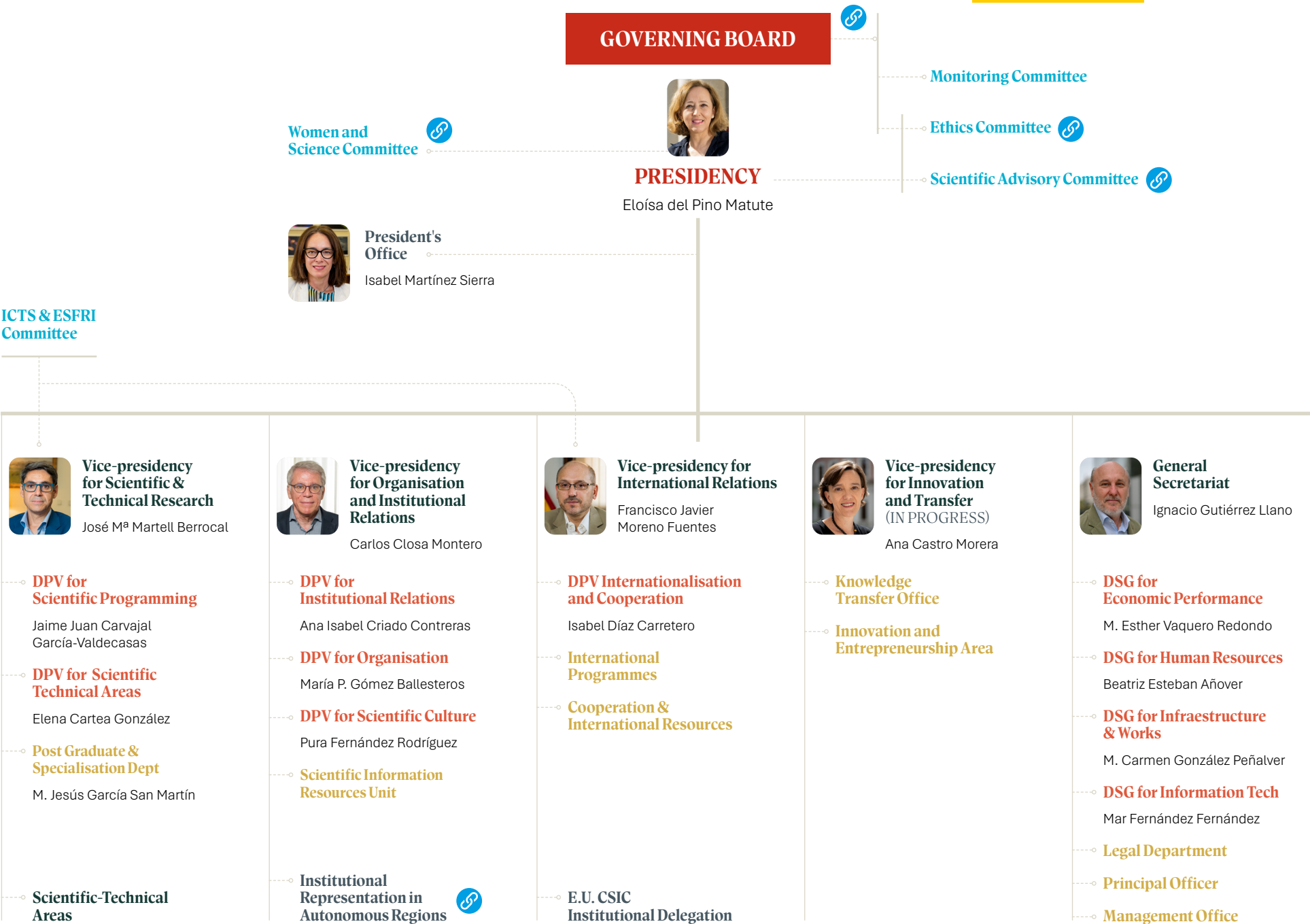
Antarctic Base



HR EXCELLENCE IN RESEARCH



Organisational chart



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and Citizen Science

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We do science



Science for society



Support structures for research activity



Institutional relations and scientific collaboration



CSIC 2025, a year in figures



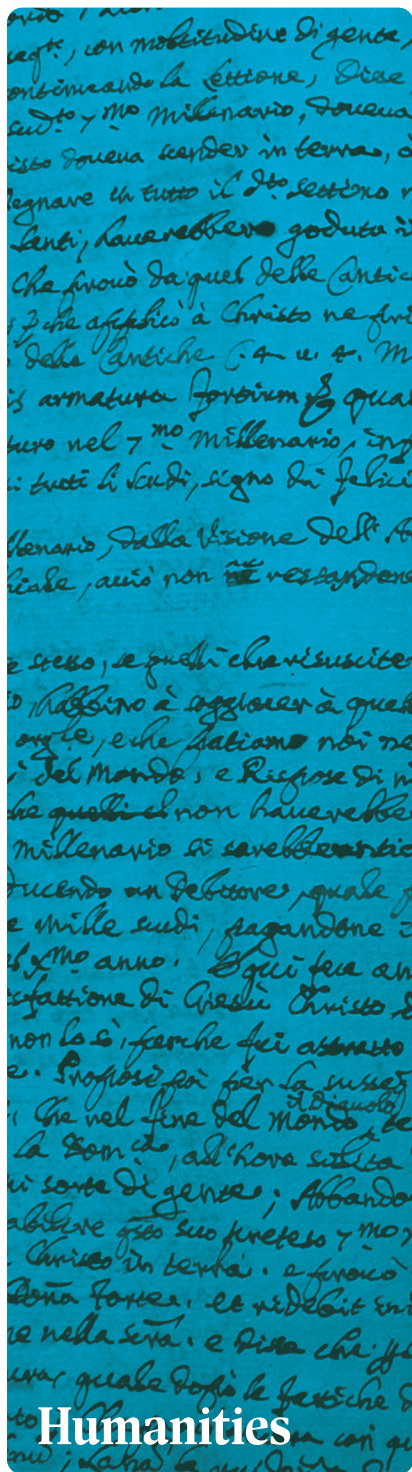
Annexes



We do
Science



SOCIETY



Humanities



Social Sciences

LIFE



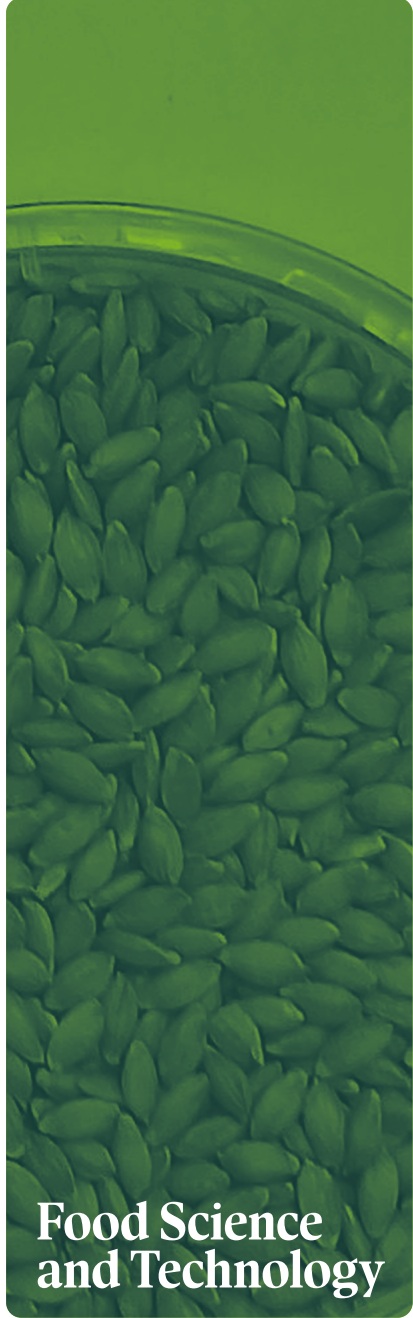
Biology and Biomedicine



Earth and Environment



**Agricultural
Sciences**

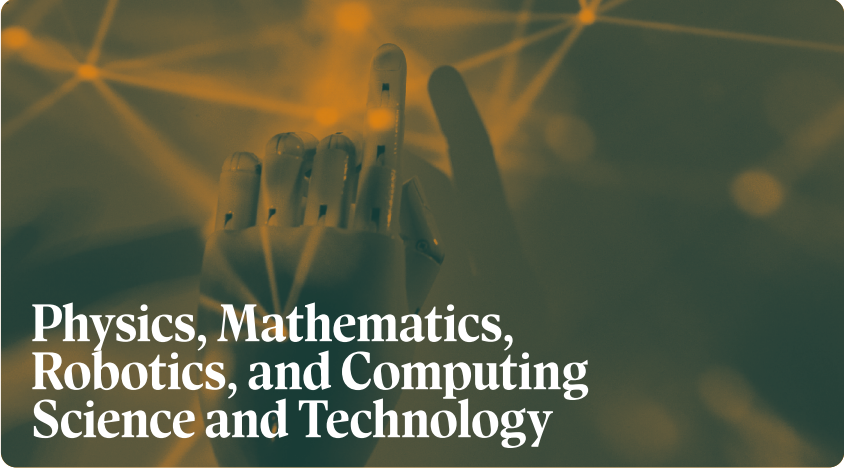


**Food Science
and Technology**

MATTER



**Materials
Science and
Technology**



**Physics, Mathematics,
Robotics, and Computing
Science and Technology**

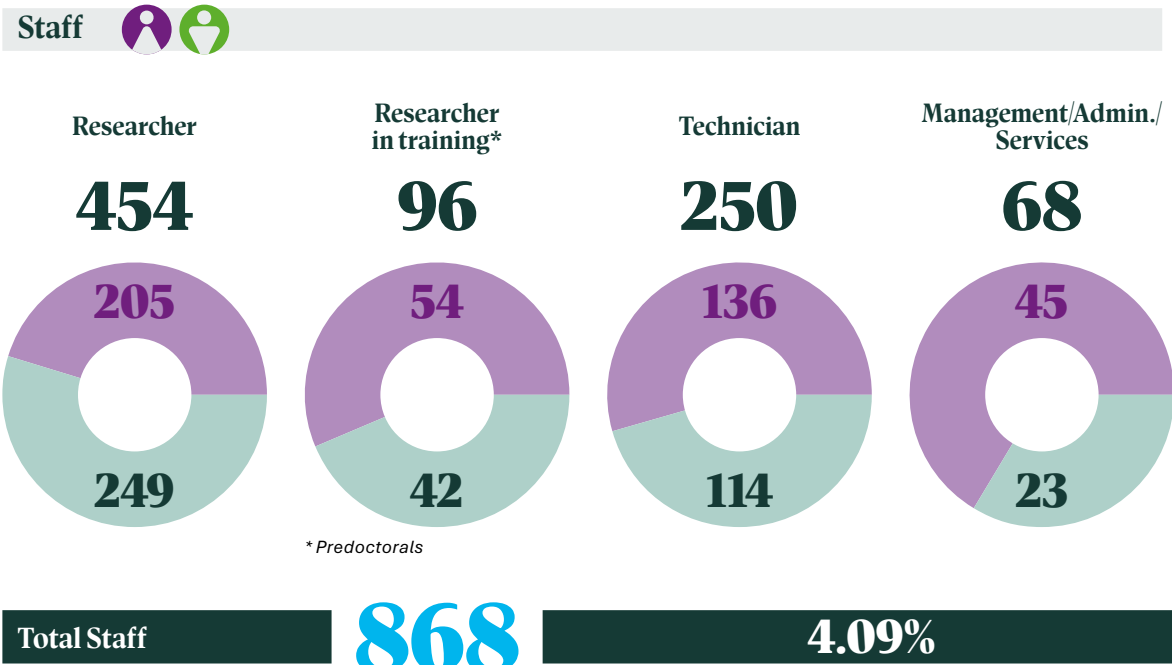


**Chemical Science
and Technology**

LIFE

Global Area SOCIETY

Humanities Social Sciences



The area assigned to research staff and researchers in training is the personal area. The others have been assigned the area of the ICU to which they are adscribed.



National Projects and actions



*Data that includes the number of approved and finalised projects in 2025.

International Projects (UE PM, UE non-PM and Intern)



*Data that includes the number of approved and finalised projects in 2025.

Scientific production



Knowledge transfer

Databases

1

Brands

6

Musical
audiovisual work

2



Structures of the scientific-technical areas

COORDINATOR

ADA FERRER
CARBONEL

ASSISTANT COORDINATOR

ANA MARÍA CRESPO SOLANA

Area commision

6

members

Data at 31/12/2025.



MILESTONES

Social Sciences

Catalogue of publications on women scientists

IESA. Their library has prepared a catalogue of publications on women, within the framework of the CSIC's 'We all do science' initiative, to make visible the role of women in the different stages of the scientific career and to foster interest in science among young audiences.



Monographs entered in the IESA library catalogue on women and science.

'Technological waves' explain why some cities grow and others stagnate

IAE. They are participating in a study that uses geolocated historical patent data from more than 100 years and shows that cities better adapted to technological changes grow faster. Frictional knowledge diffusion explains much of the variation in urban development in the United States (*Journal of Political Economy Macroeconomics* 3, 75-121, 2025).

The climate marked the political stability of Ancient Egypt

IAE. A study in which they participate shows that the Nile floods and rainfall in the surrounding areas directly influenced the political stability of Ancient Egypt, affecting the length of reigns, the capacity of the state, and the emergence of periods of crisis (*J Econ Growth* 30, 271-305, 2025).



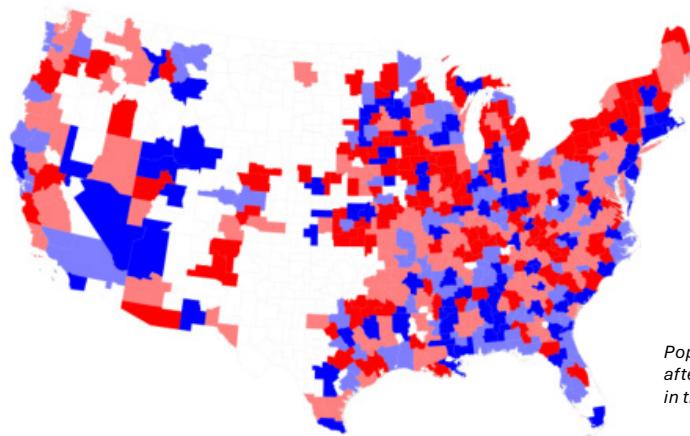
Monsoon rainfall, Blue Nile drainage zone in the Ethiopian highlands.

Anti-feminism on social media: the role of influencers

IPP. They have participated in a study showing how generalist influencers, outside their usual thematic field, spread anti-feminist messages that reach wide audiences. This content activates polarising emotional frameworks, favouring the circulation and normalisation of attitudes contrary to gender equality (*Politics & Gender* 21, 2025).



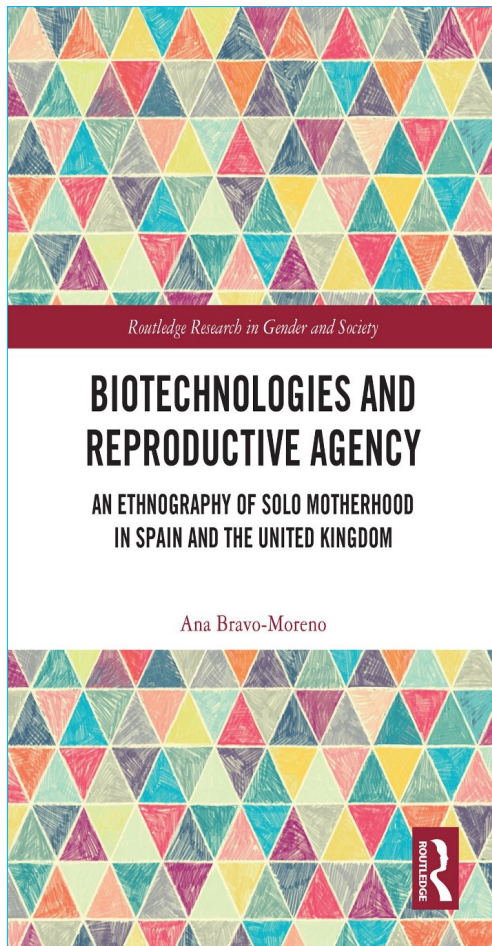
Influencers.



Population gain (blue) / loss (red) after a technological shock wave in the pharmaceutical sector.

Biotechnology and assisted reproduction

IPP. They have participated in the publication of the book *Biotechnologies and Reproductive Agency. An Ethnography of Solo Motherhood in Spain and the United Kingdom* (Routledge, 2025), which demonstrates that biotechnology has transformed motherhood for women who choose this option alone and concludes that the local intersections of politics, law, economics, education, and ideology influence their experiences.



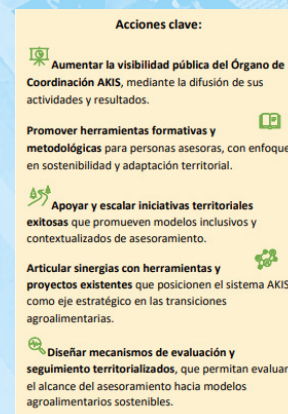
Assisted reproductive technologies and women in Spain and the United Kingdom.

Citizen Science and Agrifood Systems

IEGD. They coordinated the paper as leader of the European Citizen Science Association's agrifood systems working group, providing key tools and reflections to make agrifood research more ethical, collaborative, and aligned with current social and environmental needs (*Ambio* 54, 1306–1317, 2025).

Towards a more inclusive, coordinated, and sustainability-oriented Agricultural Knowledge and Innovation System (AKIS) in Spain

IEGD. They have participated in a report that presents a diagnosis of the Agricultural Knowledge and Innovation System (AKIS) in Spain, analysing players, structures, and coordination dynamics. It identifies gaps and opportunities and proposes guidelines to move towards a more inclusive, better-articulated AKIS aligned with long-term sustainability objectives.



Action proposals for a more inclusive and sustainability-aligned AKIS.

Natural Disasters and Social Sciences

INGENIO. They organised the event 'Natural Disasters and Social Sciences'. The meeting brought together prominent academics and representatives of civil society to discuss ravine management, the protection of Huerta, and the strengthening of entities after the DANA.



Event 'Natural Disasters and Social Sciences'.

INGENIO. The Ministry of Science recognised Dr Adela García Aracil for her work as Coordinator of Social Risks at the GADE-CSIC, and the Ministry paid tribute in Picanya to 17 entities and 56 professionals for their work with the DANA.



Tribute from the Ministry of Science, Innovation, and Universities to the scientific community on the first anniversary of the Dana.

Science that connects. Documentary The Wildlife Watchers

IESA. Premiere of the documentary *Los vigilantes de la fauna* (*The Wildlife Watchers*), which highlights the importance of forestry and environmental agents as wildlife informants and their role in the rural world. This documentary is the result of the research project TED2021-132034B-I00, developed at IESA and funded by MCIN/AEI/10.13039/501100011033 and the EU 'NextGenerationEU/PRTR'.



Still from the documentary *The Wildlife Watchers*.

Humanities

The IEGPS opens the Preliminary Draft of the Statute of Galicia (1932-1936) to the public with more than 1,000 documents digitised in SIMURG and GALICIANA

IEGPS. They have digitised and incorporated the Preliminary Draft of the Statute of Autonomy of Galicia of 1936 Collection into the SIMURG portal. More than a thousand documents of the Preliminary Draft of the Statute of Galicia (1932–1936) are now available in open access on the SIMURG and GALICIANA portals. This IEGPS collection is in addition to other digitisations carried out with the URICI-CSIC in 2025, such as the Galician Studies Seminar Collection. The digital collection presented to the public can be found at: <http://simurg.csic.es/collection/2172362>.



Public presentation ceremony attended, among others, by various representatives of the CSIC.

CLARA-MeD: artificial intelligence to make medical texts understandable

ILLA. They developed tools to facilitate the understanding of medical texts. The CLARA-MeD project has created AI resources to identify concepts and simplify terminology in medical texts. These applications allow large volumes of data to be analysed, making them easier for patients and professionals to understand. Experts from the RANME, Gregorio Marañón Hospital and the Rioja Health Foundation have collaborated. *BMC Bioinformatics* 26, 7, 2025; *Studies in Health Technology and Informatics*, 316, 95-99, 2024. Resources at: <http://claramed.csic.es/demo>; <https://clara-nlp.uned.es/home/med/>; and <https://claramed.csic.es/medspaner>.



Tool for professionals (top) and system for patients (bottom).

The complex process of domestication of cats in Europe

IH. A study in which they participate reveals the complex process of domestication of cats; domestic cats arrived in Europe thousands of years later than previously thought. Analysis of cat genomes from archaeological sites and modern wild cats offers the most complete genetic reconstruction of the origin and dispersal of these animals (*Science* 390, 6776, 2025).



Marta Moreno at the IH Archaeobiology Laboratory.

Demonstration of the systematic production of bone tools 1.5 million years ago at the Olduvai Gorge site in Tanzania

IH. The international team, led by researcher Ignacio de la Torre, published an article in *Nature* (*Nature* 640, 130-134, 2025) on the Olduvai Gorge (Tanzania), revealing the systematised production of bone tools 1.5 million years ago, representing a milestone in the archaeology of human origin. This finding redefines the technological capabilities of early hominids by demonstrating planned, recurrent production of bone tools in East Africa.



Bone tool carved on elephant humerus.

Archaeology, Art, and Architecture Photo Libraries in Rome are Confronted for the First Time

EEHAR. They bring these institutions together for the first time in a seminar to analyse common heritage. From its beginnings, photography was linked to artistic and historical reproduction, democratising art and serving as an objective record. It spread knowledge of places and works and promoted new sensitivities and technical advances. Its systematic use created essential archives for research.

Anonymous, *The Roman Forum*, ca. 1855–60. Stereoscopic photography. Private Collection.

Science that connects. The heartbeats of the Qur'an: the life of the sacred text between Mudejars and Moors

EEA/ILC. They organised an exhibition at the Royal Hospital of Granada on the survival and vitality of the Qur'an among the last Hispanic-Islamic minorities in modern Spain. The exhibition is linked to the EuQu, DeQuDy, and CorAl projects, in collaboration with the UGR Heritage Service.



Advertising poster.



From conflict to commitment: global partnerships to protect documentary heritage from looting and illicit trafficking

IMF. They held the lecture series '*From Crisis to Commitment: Rethinking Policies and Partnerships for Heritage Protection in Conflict and Peacebuilding and how to prevent thefts and illegal trafficking of documentary heritage*'. This series of conferences brought together international organisations, experts, and civil society leaders to discuss innovative approaches to safeguarding cultural heritage in times of crisis, as well as to reflect on how to prevent its theft and illegal trafficking.



Poster of the lecture series.

National Essay Award 2025

IFS. The researcher Remedios Zafrá has received the 2025 National Essay Prize for her work *The Report. Intellectual work and bureaucratic sadness*, published by Anagrama. Awarded by the Ministry of Culture, the national awards are among the most prestigious literary awards in Spain. The jury highlights the award-winning work for being "a tribute to freedom and creative passion (...) a strong critique of the conditions of the performance of intellectual labour".



Cover of *The Report* in its third edition, December 2025.

Research Award from the Institute of Archaeology of the Chinese Academy of Social Sciences

INCIPIT. Felipe Criado-Boado receives the Research Award of the Institute of Archaeology of the Chinese Academy of Social Sciences. Within the framework of the Shanghai Archaeology Forum, the CSIC archaeologist received one of the Research Awards granted every two years by the CASS Institute of Archaeology, the University of Shanghai, and the Directorate of Cultural Heritage of the Chinese government. In this way, his innovative contribution to the study of the interaction between the human mind and artificial objects was recognised.



Felipe Criado-Boado presenting the award-winning research at the Shanghai Archaeology Forum 2025.

The CSIC's commitment to the Democratic Memory Law (Law 20/2022)

Everyone related to public educational and research organisations was subjected to purging processes

IFS. The project *Archive, memory, reparation. The CSIC and the purge of the JAE* reconstruct the purging processes of more than 500 people who had links with the Board for the Extension of Studies (JAE), at the beginning of the Civil War, interrupting academic and professional trajectories, causing exiles —also internal— and truncating lives that broke the institutional, cultural, and scientific fabric in Spain. The results of the project

expand the concept of purging by identifying specific forms of repression, including multiplying sanctions and delaying the resolution of many of them. New criteria are proposed to analyse the early years of Francoism, and the initial organisation of the CSIC is shown to be closely connected to the creation of a new scientific elite aligned with the values of the dictatorship.



Plaque located in the hall of the Blas Cabrera Institute of Physical Chemistry.

El tratamiento de la memoria democrática en el CSIC

Informe sobre la adaptación a la Ley 20/2022, de 19 de octubre, de Memoria Democrática



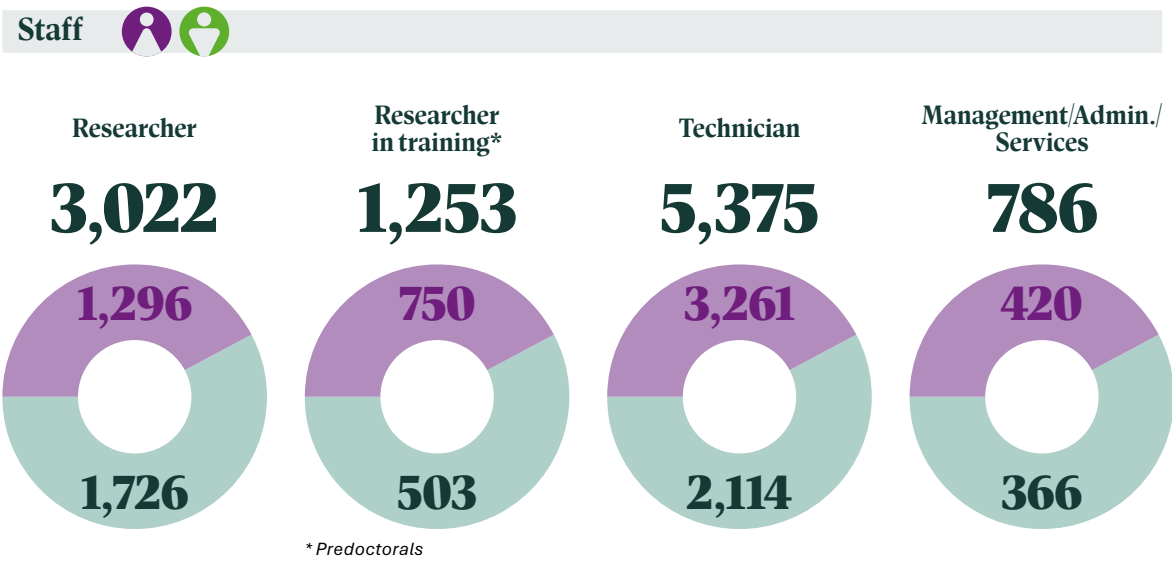
Recovery of historical memory and recognition of the people repressed during the dictatorship

Publication of the book [The treatment of democratic memory in the CSIC](#) which includes the measures adopted by the body to adapt to the provisions of the Law of Democratic Memory. Among them, the removal of paintings, such as the portrait of the first president of the CSIC, José Ibáñez Martín, and the portrait and bust of its Secretary General, José María Albareda. Also, renaming spaces such as the Institute of Physical Chemistry, from which "Rocasolano" is eliminated, becoming "Blas Cabrera". In the gaps generated, texts are placed to record the action and indicate the current locations of these objects. The proposal to re-signify the symbology reproduced in the stained-glass windows of the central building and to use it to think about the origins of the CSIC, or the recommendation to maintain, as part of the institutional memory, the books of signatures of which they are custodians, adding an insert that indicates and warns of the cases that contain signatures of people who exercised repression.



Global Area LIFE

Biology and Biomedicine Earth and Environment Agricultural Science Food Science and Technology



The area assigned to research staff and researchers in training is the personal area. The others have been assigned the area of the ICU to which they are adscribed.



National Projects and actions



*Data that includes the number of approved and finalised projects in 2025.

International Projects (UE PM, UE non-PM and Intern)



*Data that includes the number of approved and finalised projects in 2025.

Scientific production



Knowledge transfer

Brands	Biological Material	Plant Material
17	24	3
Software	Plant Variety Development	Trade Secret
4	8	5
Patents applied for (priority)	PCT International Patents (Non-Priority)	Operating license contracts
33	30	45
Number of licensed objects	Science-based Company or Spin Off	Musical audiovisual works
68	4	5

Structures of the scientific-technical areas

COORDINATOR

TERESA MORENO
PÉREZ

ASSISSTANT COORDINATORS

EVA MARÍA Balsa Canto
Ernesto Igartua Arregui

Area commision

20

members

Data at 31/12/2025.



MILESTONES

Biology and Biomedicine

CANCER

New Keys in the Understanding and Treatment of Cancers with a Poor Prognosis

CIC. In collaboration with IDIBELL, they identified a new therapeutic target in intrahepatic cholangiocarcinoma. The study demonstrates that dual inhibition of NOX4/NOX1 with Setanaxib reduces tumour growth in preclinical models (*Signal Transduction and Targeted Therapy* 10(1), 257, 2025).

Other research from the same centre has provided new clues about therapeutic resistance in lung cancer with mutations in the *KRAS* and *TP53* genes. The study shows that the Capicua protein acts as a natural barrier against lung tumours driven by *KRAS*/*TP53* mutations, limiting their malignant transformation (*EMBO Molecular Medicine* 17, 3377-3406, 2025).

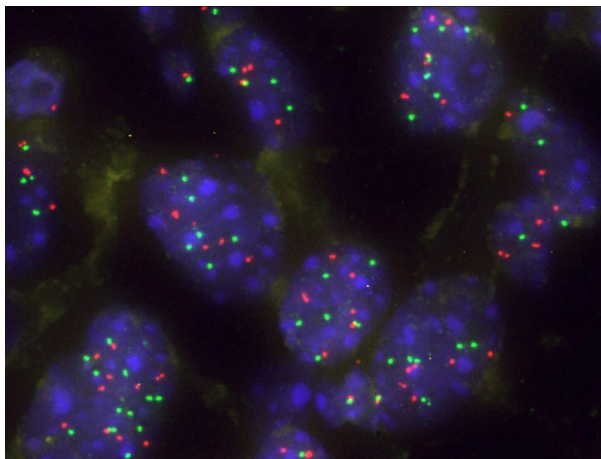
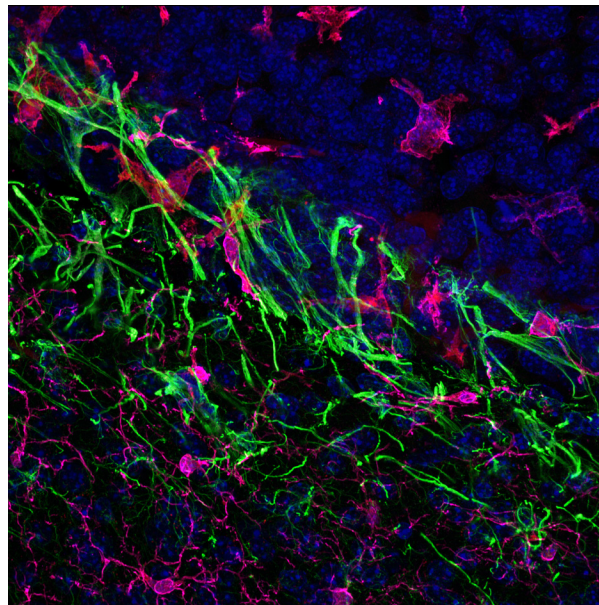


Image of a group of lung tumour cells with increased *KRAS* to overcome the natural Capicua barrier. In blue are the nuclei of the cancer cells, and in red are the various copies of the *KRAS* gene inside the nuclei. The chromosome containing the *KRAS* gene is marked in green, indicating that the tumour cells have amplified entire chromosomes, including *KRAS*.

IIBB. They discovered that Galectin-1 in tumour fibroblasts activates genes that increase the aggressiveness of pancreatic cancer, opening up possibilities for new therapies (*PNAS* 122, 14, e2424051122, 2025).

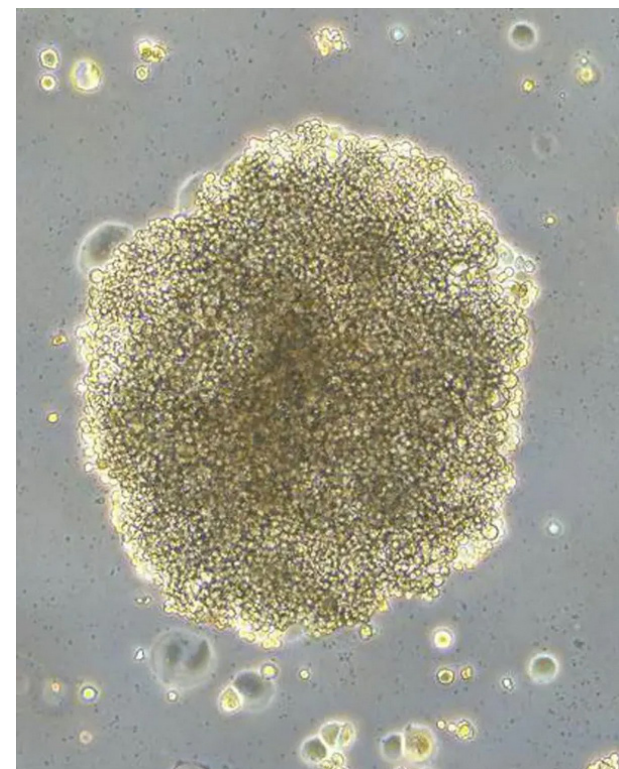
IN. They discovered a new strategy to combat melanoma brain metastases. The study identifies the key role of microglia in melanoma brain metastases and how their reprogramming—via blocking the RelA/NF- κ B pathway—transforms them into a phenotype that boosts antitumour immunity. This reduces metastatic progression and could increase the efficacy of immunotherapy in patients (*Cancer Cell* 43(3), 1–15, 2025).



Melanoma brain metastasis surrounded by glial cells. Astrocytes are marked in green, and microglia cells are marked in red.

Osmotic stress modulates the tumour response to chemotherapy

IIBM. They showed that osmotic stress can confer resistance or sensitivity, depending on the drugs' molecular mechanisms. This could be clinically relevant in patients receiving antihypertensive medication alongside chemotherapy (*Drug Resistance Updates* 79, 101203, 2025).

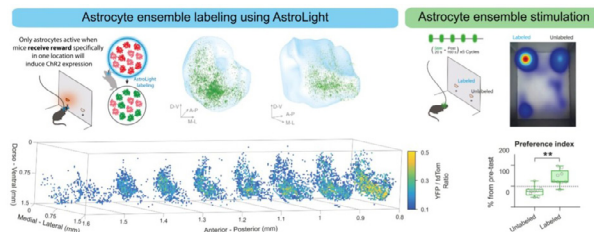


A colony of breast cancer cells resistant to the drug Rigosertib is surrounded by cells that have stopped proliferating due to the drug.

NEUROSCIENCES

How the brain learns and orients itself: cellular networks and cognitive maps more complex than expected

CNC. They demonstrated that dynamic astrocytic assemblages emerge that are remodelled with learning and regulate cue-motivated behaviour and memory (*Nat Neurosci* 28, 616-626, 2025). Other research from the same centre reveals how the hippocampus encodes spatial and experiential information using more sophisticated neural maps than estimated. The study provides a new perspective on orientation and memory (*Neuron* 113, 1098-1109, 2025).



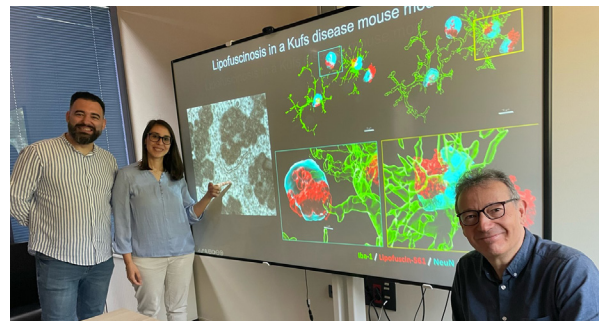
Left: Labelling astrocyte assemblies using AstroLight. With this tool, the authors obtained a spatial map of the astrocytic assemblage involved in a cue-motivated behavioural task. Right: Stimulation of the astrocytic assemblage. Reactivating astrocytes tagged with AstroLight modified mice's preference for one of two possible reward sites.

Early Experiences Model Brain Plasticity and Function

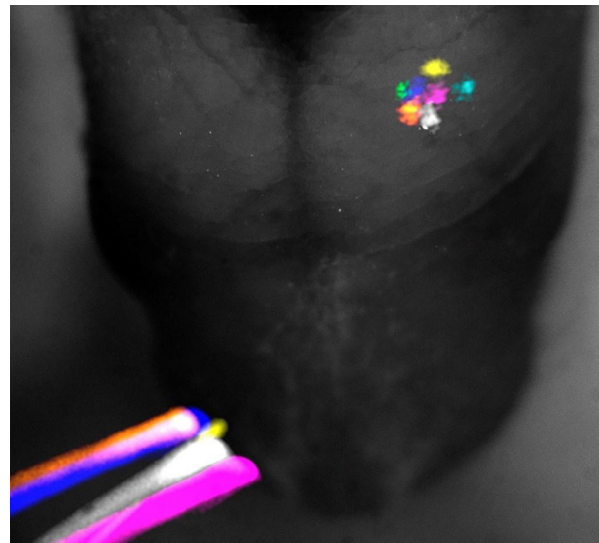
IN. They discovered that the developing brain can reorganise the sense of touch before birth. Early tactile deprivation enhances the representation of other tactile cues by transcriptional changes in the thalamus (*Nat Commun* 16, 1955, 2025). Other research from the same centre identified molecular mechanisms linking the rearing environment to cognitive abilities. The study showed that the transcription factor AP-1 functions as a 'switch' that translates early experiences into cognitive improvements or impairments (*Nat Commun* 16, 9710, 2025).

The first mouse model of a severe neurodegenerative disease a century after its discovery

IBiS. They have created the first mouse model for Kufs disease (CLN4), revealing that mutations in the CSP alpha protein cause toxic accumulation of lipofuscin and neurodegeneration. The finding opens new avenues for studying mechanisms and therapies (*Sci. Adv.* 11, eads3393, 2025).



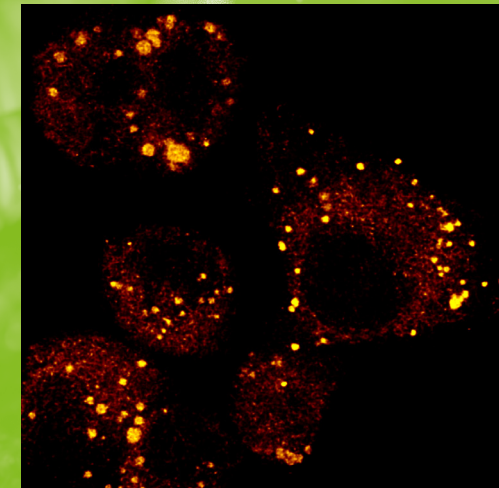
IBiS researchers present the main pathological features observed in the murine model of Kufs disease/CLN4.



Sensory map showing how the brain of a mouse embryo organises facial sensations before birth. The colours indicate responses to stimuli in different areas of the snout.

Inflammation and neuronal damage: advances in the understanding of multiple brain pathologies

IIBB. They showed that mitochondrial copper accumulation causes microglial dysfunction and neuroinflammation, highlighting chronic environmental copper exposure as a key factor in the induction of neuroinflammation associated with Alzheimer's disease (*Redox Biol* 87, 103872, 2025). Other research from the same centre identified an inflammatory profile regulated by three microRNAs that connects Parkinson's, depression, and gut health. This advance makes it possible to comprehensively address the comorbidity of these diseases by developing multi-symptom treatments (*J Neuroinflammation* 22(1), 260, 2025).



Copper overload promotes mitochondrial DNA oxidation in microglia exposed to beta-amyloid. Representative confocal microscopy image of 8-hydroxy-2'-deoxyguanosine immunolabeling (green) in mitochondria stained with MitoTracker Deep Red (red).

IBBM. They discovered a new mechanism involved in regulating neuronal damage and glial cell activation in ischemic stroke. This has supported the development of an innovative therapy with neuroprotective peptides that are brain-accessible and has been successfully tested in preclinical stroke models (*Theranostics* 15, 4654, 2025).

BIOTECHNOLOGY AND NEW THERAPIES

New therapies against multi-resistant bacteria

CABD. They described how ENOblock, in combination with colistin, improves the treatment of infections by different groups of bacteria, targeting a new antibiotic family (*EMBO Molecular Medicine* 17, 3496-3524, 2025).

I2SYSBIO. They managed to eradicate chronic infection by *Pseudomonas aeruginosa* in a cystic fibrosis patient with double lung transplantation. The compassionate-use bacteriophage therapy has shown potential as an adjunctive treatment for antibiotic-resistant infections (*ASM Case Rep* 1:e00058-24, 2025).



Research staff of the I2SysBio Environmental and Biomedical Virology group leading the *Pseudomonas aeruginosa* study.

IBIS. They analysed multidrug-resistant bacteria in wastewater in Seville, detecting persistent species after treatment linked to prescription and population factors, supporting the One Health approach and environmental surveillance for public health (*Water Research* 281, 123706, 2025).

IBIS, the second Spanish public centre authorised to produce viral vectors for CART therapies

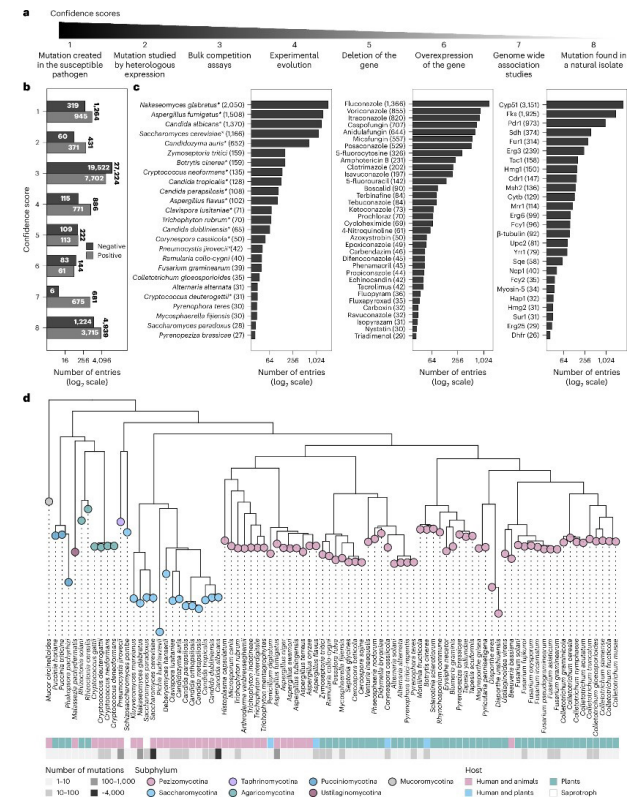
IBIS. They will manufacture advanced therapies for myeloma, lymphomas, and other tumours, promoting a national public network and expanding therapeutic options for oncohaematological patients.



Research staff responsible for the study.

New Tools to Prevent Growing Antifungal Resistance

IBFG. They presented FungAMR, the largest database of antifungal resistance mechanisms, with more than 35,000 mutations conferring resistance to 208 drugs in 95 species (*Nat Microbiol* 10, 2338–2352, 2025).

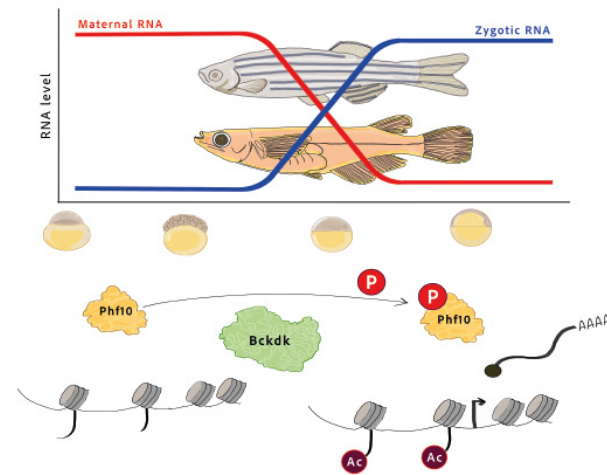


Summary of the contents of the FungAMR database, showing the number of genes, species, and antifungals, which are the basis for the ChroQueTas predictive software.

CELL AND DEVELOPMENTAL BIOLOGY

Identification of a new mechanism that regulates the activation of the zygotic genome

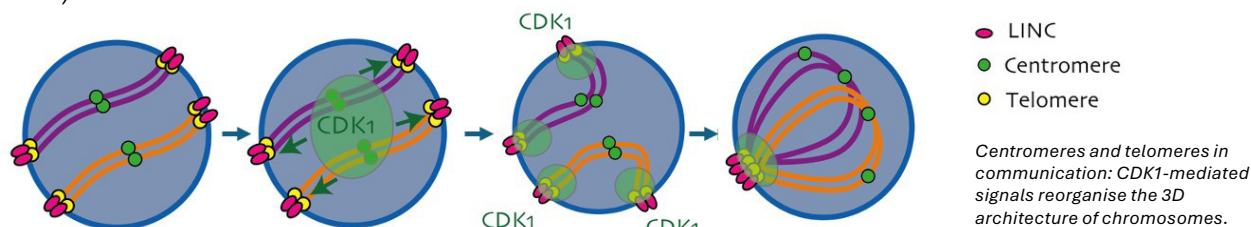
CABD. They identified, in collaboration with the Stowers Institute in Kansas (USA), the Bckdk kinase as a regulator of maternal to zygotic transition in zebrafish (*EMBO J* 44, 7021–7059, 2025).



Schematic illustrating Bckdk's role in genome activation by phosphorylation of target proteins.

Centromeres and telomeres 'converse' over long distances for gamete formation

IBFG. They have shown how centromeres and telomeres, distant regions of chromosomes, communicate using CDK1 molecules. This signalling coordinates their movements, reorganises the genome's 3D structure, and is essential for gametogenesis (*Nat Commun* 16, 837, 2025).



Embryos can defend themselves against bacterial infections early in their development

IBMB. They studied how embryos interact with bacteria before their immune system is formed. Filming zebrafish and mouse embryos, they observed that they could destroy pathogenic bacteria through cell protrusions that activate immune programs in epithelial cells, a defence mechanism also identified in human embryos (*Cell Host & Microbe* 33, 1106–1120, 2025).

Immune memory against viruses found in worms

I2SYSBIO. They revealed that the worm '*Caenorhabditis elegans*', which shares more than 80% of its proteins with humans, develops acquired immunity against latent viruses. This new mechanism opens the door to the development of new therapies for viral infections and control systems for future epidemics (*Nat Commun* 16, 7123, 2025).

Researchers discover how stem cells are maintained in an *in vivo* model

IBV. They reported that, in *Caenorhabditis elegans*, the degradation of chromatin regulators mediated by the APC/C complex promotes stem cell differentiation, and that control of this machinery is essential to maintain the undifferentiated state of these stem cells (*Sci Adv* 11, eadu8572, 2025).

MOLECULAR BASIS OF DISEASES

New Therapeutic Hope for T-cell Acute Lymphoblastic Leukaemia

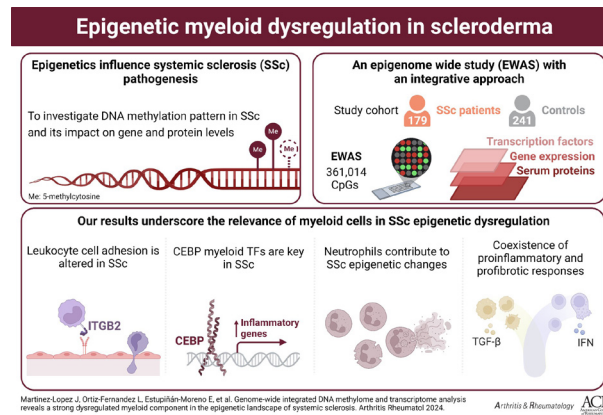
CBM. They identified pre-TCR as a therapeutic biomarker in T-cell acute lymphoblastic leukaemia and demonstrated the efficacy of a targeted antibody-drug conjugate in preclinical models. The study opens up new avenues for more precise and less toxic treatments (*Nat Immunol* 26, 1712–1725, 2025).

Double international breakthrough in the genetics of bipolar disorder

CBM. They are participating in the largest genetic study of bipolar disorder (298 associated regions; more than 158,000 cases) and in a second work that identified functional variants and key genes involved in the disease. Both studies promote personalised medicine in mental health (*Nature* 639, 968–975, 2025; *Nat Neurosci* 7, 1393–1403, 2025).

Whole-genome study in patients with systemic sclerosis reveals strong myeloid dysregulation

IPBLN. They are leading an international multi-omic study that analyses epigenetic changes in patients with systemic sclerosis and provides relevant evidence on the involvement of various myeloid processes in the pathology, contributing to a better understanding of its development (*Arthritis Rheumatol* 77, 439-449, 2025).



Graphic summary of the publication.

Molecular mechanisms of ageing

CABIMER. They showed that compounds present in garlic that generate hydrogen sulphide extend life and improve metabolic, neurocognitive, and locomotor functions in male mice. These molecules remodel liver lipid droplets and modulate molecular mechanisms of ageing. In humans, greater cysteine persulphidation is associated with better health.

Inflammation induced by cytokines and pathogen-associated patterns promotes the reprogramming of metabolism and calcification in human valve cells by simulating the changes associated with aortic stenosis.

Adaptation of Staphylococcus bacteria in humans

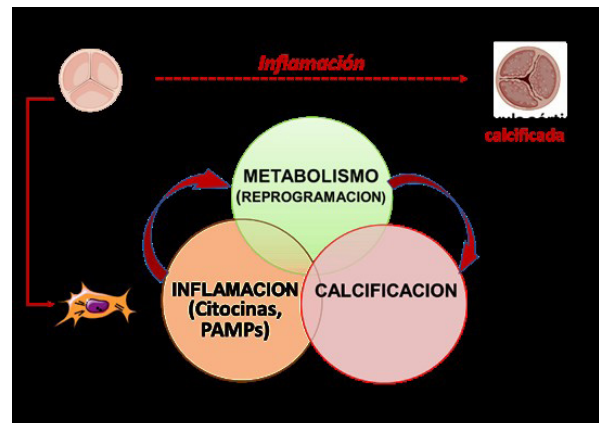
IBV. They are conducting the most detailed study to date on how the *Staphylococcus aureus* bacterium adapts in humans, genetically analysing samples from carriers. The results could improve the prevention, diagnosis, and treatment of these infections (*Nat Commun* 16, 302, 2025).



Staphylococcus aureus growing on a blood agar plate. Photograph taken in the Respiratory Virus and Microbiome Initiative laboratory of the Wellcome Sanger Institute (United Kingdom).

Inflammation modifies metabolism and promotes valvular calcification, relevant in aortic stenosis

IBGM. They showed that inflammation induces a complex metabolic reprogramming that generates calcification, a relevant process in calcifying aortic stenosis, which some authors consider a 'silent epidemic' (*Arteriosclerosis, Thrombosis, and Vascular Biology* 45, 7, 2025).



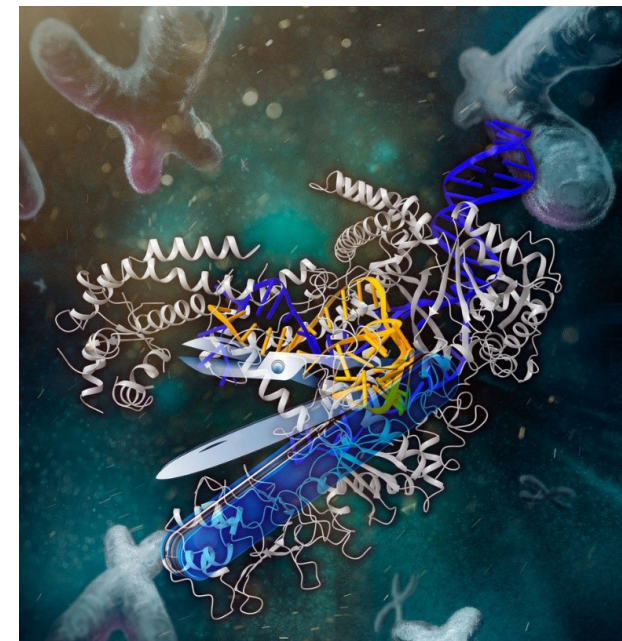
STRUCTURAL BIOLOGY AND BIOPHYSICS

A new mechanism protects cells from the most common DNA mutation

CIB. They used cryo-electron microscopy to characterise how RNA polymerase I is blocked at abasic sites in DNA, revealing mechanisms distinct from those observed in other genetic lesions (*Nat Commun* 16, 5254, 2025).

New advances in the understanding of evolutionary processes

IBF. They resurrected an evolutionary ancestor of the nuclease Cas12a and found that it has new substrate-recognition capabilities, which could enable advanced applications in gene editing, biotechnology, and nucleic acid detection (*Nat Biotech* 43, 1663-1672, 2025).



Representation of the three-dimensional structure of the protein that has been determined by cryoem in the IBF.

EEZ. They identified a case of 'reverse' evolution in a bacterial sensor, where simple receptor domains emerged from more complex versions. This suggests that evolution does not always move towards greater complexity and raises the question of whether other biological systems have also been structurally simplified (*PNAS* 122, e2409881122, 2025).

The mechanism that allowed bacteria to make the Earth breathable

IBV. They discovered new clues about the metabolic regulation of these microorganisms, using X-ray diffraction to visualise the molecular machinery that enables cyanobacteria to adapt to nitrogen scarcity conditions (*NAR* 53: gkaf096, 2025).

A new algorithm improves protein flexibility identification

CNB. They developed a new computational method that improves the identification of flexible areas in the three-dimensional structure of proteins: a key advancement in understanding their biological function and drug design (*Nat Methods* 22, 2118–2126, 2025).

MAJOR INFRASTRUCTURES

CNB and CBM join Euro-BioImaging, Europe's largest bioimaging infrastructure

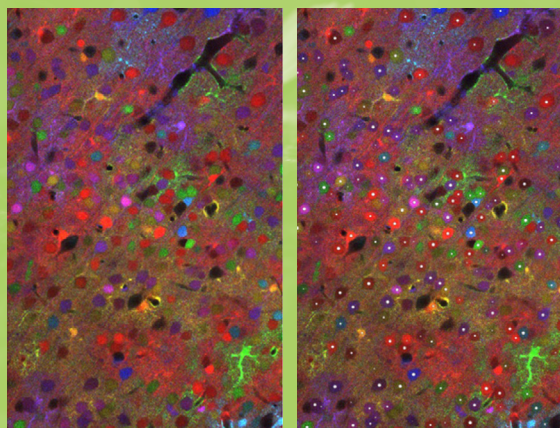
CNB/CBM. They have officially joined Euro-BioImaging ERIC, the European infrastructure of reference for imaging technologies in life sciences and biomedicine, consolidating their international position in advanced microscopy.



The CNB joins the European network of biological imaging infrastructures.

BiaPy promotes global access to deep learning in bioimaging

IBF. They contributed to the development of BiaPy, a platform that democratises the use of deep learning in bioimaging. The tool enables advanced analytics without requiring programming knowledge, facilitating the adoption of AI in bioscience and medicine.



Two-dimensional section of a mouse brain region with fluorescent markers (image acquired with ChroMS). Each white dot represents an individual cell automatically detected thanks to BiaPy, showing its ability to analyse large images and detect cells in both densely populated and more dispersed regions. On the left, without applying BiaPy, and on the right, after applying it.

The IBFG incorporates a biophysics instrument that is unique in Europe

IBFG. In collaboration with biophysicist Carlos Bustamante, they have installed Next-Frontier optical tweezers. This equipment, unique in Europe, will enable the study of the molecular motors of life with unprecedented spatial and temporal resolution. It has been financed with a grant from the Junta de Castilla y León.



Optical Tweezer System.

IBMB's Cryo-TEM Platform reinforces Spain's offer at Instruct-ERIC

IBMB. The Cryo-TEM platform has been integrated into the Instruct-Barcelona node, within Instruct-ERIC Spain, reinforcing Spanish participation in large European research infrastructures.



SCIENCE THAT CONNECTS

CBM. They celebrated 50 years as an international benchmark in molecular biology with an international symposium that brought together world leaders and Nobel laureates. The event reinforced its scientific leadership, its impact on biomedical research, and its commitment to technology transfer and the training of new generations of researchers.



Scientific authorities, international speakers, and collaborators attend the fiftieth anniversary of the Severo Ochoa Molecular Biology Centre.

CIC. The new host of the international Targeting RAS 2025 Symposium, which brought together the world's leading experts in RAS oncogenes, is Salamanca. For three days, the most recent advances in anti-RAS therapies, structural biology, therapeutic resistance, and tumour microenvironment were addressed.



Image of the event.

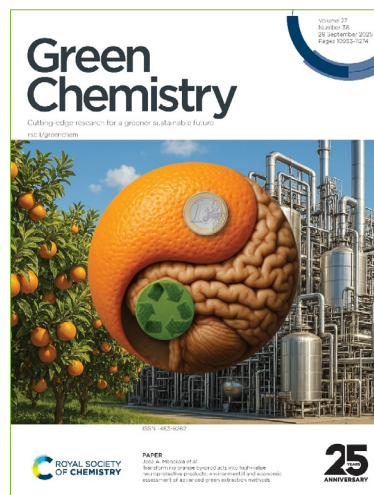
Food Science and Technology

Advances in understanding the interactions between food, microbiome, and health

CEBAS. They participated, together with researchers from the '12 de Octubre' University Hospital, in a study that shows that urolithin A, a microbial metabolite derived from the consumption of pomegranate and walnuts, could contribute to slowing the progression of multiple myeloma and improving the response to existing treatments (*Microbiome* 13, 56, 2025).

CIAL. They showed that certain oral bacteria associated with inflammatory processes (periodontitis, caries) and obesity are related to alterations in taste perception. The results suggest the existence of a mouth–brain axis that could influence eating behaviour (*Food Res Int* 221, 1, 2025).

IATA. They demonstrated, together with the University of Trento (Italy), that the intestinal bacterium *Phascolarctobacterium faecium*, associated with individuals with normal weight, can reduce fat accumulation and inflammation in obesity by modulating innate immunity (*Nat Microbiol* 10, 1310–1322, 2025).



Advances in food safety and control

IG. They indicated that certain quinones promote acrylamide formation in antioxidant-rich foods. This result contributes to a better understanding of the chemical mechanisms underlying acrylamide formation during the thermal processing of food (*Food Chem* 475, 143343, 2025).

IPLA. They contributed to one of the largest studies to date on bacterial resistance genes in the food chain, analysing more than 2000 samples from raw materials, food, and surfaces in industrial environments. The work confirms the role of the food chain as a potential route for the transmission of antibiotic-resistant bacteria (*Nat. Microbiol.* 10, 1854–1867, 2025).

New ingredients and sustainable valorisation of food resources

IG. They developed new hydroxytyrosol–pectin conjugates aimed at improving intestinal health, thereby expanding the applications of phenolic compounds found in plant products. The study demonstrates that pectin acts as an effective transporter to carry antioxidants to the colon, protecting them during digestion (*Food Hydrocoll.* 162, 110954, 2025).

CIAL. They developed a sustainable method to transform orange juice by-products into extracts with neuroprotective potential. The process reduces the use of solvents by more than 95% and energy consumption by 90%, and includes life-cycle analysis and techno-economic evaluation that confirm its viability. The work has been featured on the cover of the journal *Green Chemistry* (*Green Chem* 27, 36, 11021–35, 2025).

Cover of *Green Chemistry* magazine, 27, 2025.



Digitalisation and modelling to optimise food processes

IIM. They developed, together with the University of Cartagena, WaterManage4You, an interactive simulation and optimisation platform for the industrial washing of fruits and vegetables, aimed at improving food safety and water-use efficiency. The tool allows the industry to design safer, more sustainable washing processes using mathematical models developed at the IIM in collaboration with CEBAS. It has been developed within the framework of an EFSA tender. <https://r4eu.efsa.europa.eu/app/WaterManage4You>.

ICVV. They developed AI-based models to predict wine's sensory properties, combining simple chemical measurements with machine learning algorithms. This approach enables the fast, economical, and reproducible estimation of complex sensory attributes, such as wine mouthfeel (*Food Qual. Prefer.* 129, 105494, 2025).

Science that connects

ICTAN. They have contributed to the dissemination of new protein sources through the book *Edible Insects in the World*, published in the CSIC Dissemination collection, which analyses the potential of insects as sustainable food and their role in the transition to more efficient food systems (Editorial CSIC, 2025).



Cover of "Edible insects in the world", a CSIC work that analyses their role in food from a global and interdisciplinary perspective.

ICTAN. They organised the I Congress on *Science, Cuisine, and the Future*, held on the 3rd and 4th of November in Madrid, which brought together researchers, chefs, and professionals from the food sector to discuss gastronomic innovation, sustainability, and new models of food production.

INIA. They organised the II CSIC Collaboration Forum on Food Science and Technology, held in December 2025 at the Centre for Food Quality and the University of Valladolid (Soria). The meeting brought together researchers from different CSIC centres to strengthen scientific collaboration and promote new joint initiatives in food science and technology.

Agricultural Sciences

Advances in plant biology

IHSM. They contributed to the growing importance of jumping or transposon genes, which produce transcriptional, epigenetic, and chromatin organisational modifications, affecting phenotypic diversity and adaptation to the environment (*Trends Plant Sci* 30, 857-871, 2025).

CRAG. They have revealed fundamental aspects of plant biology, such as key genes involved in the expansion of plant cotyledons in response to light (*The Plant J* 122, e70196, 2025). They discovered that plants stimulate certain bacteria for their benefit, using hormonal and defence mechanisms, to regenerate wounds with patches of bacterial cellulose (*Sci Adv* 11, eadr1509, 2025).



Bacterial cellulose (CB) patch on a leaf of *Nicotiana benthamiana*.

IBVF. They discovered a chloroplast molecule that plays a central role in linking light and CO₂ to growth in photosynthetic organisms (*Sci Adv* 11, adu1240, 2025).

CBGP. They found that trees adjust their vascular system in response to drought, thanks to hormonal signals that can be targeted to improve resistance to water stress (*Genome Biol* 36, 312, 2025). They delve into how plants evolve convergently to cope with soil salinity (*Sci Adv* 11, eadq8210, 2025). They discovered how the enzyme complexes that enable nitrogen fixation by certain microorganisms are assembled, a capacity that could eventually be transferred to crops (*Nat Chem Biol*, 2025).



ICIFOR. They identified plasticity mechanisms that prevent hydraulic collapse in trees subjected to severe drought (*Nat Ecol Evol* 9, 1825-1836, 2025).



Oak crowns (*Quercus robur*) affected by the 2022 drought in Germany.

CEBAS. They demonstrated that tree species living in the same environment use complementary strategies to share water from the soil, with large trees exploring deep layers and smaller plants using surface water, helping maintain forest biodiversity even during droughts (*Nat Comm* 16, 4103, 2025).

IBVF. They revealed a new function of the protein that prevents toxicity from excess sodium (*Nature* 637, 1228-1233, 2025).

Agriculture and forests resilient to climate change

CIDE. They contributed to the latest update of the FAO56 Crop [Crop Evapotranspiration](#) manual, the global reference manual for efficient water management in agriculture.

ICIFOR. They are leading several studies to create a comprehensive body of knowledge on forest restoration at the European level that will serve to recognise and adopt best practices in the future (*Ecol Indic* 173, 113348, 2025).

10 Forces Shaping the Evolution of Forest Restoration in Europe Insights from expert narratives across 18 European countries

Analyzing expert national narratives provides a unique lens into the long-term, large-scale evolution of forest restoration, revealing how environmental, technical, political, legal, social and economic forces have driven successes and setbacks over the past two centuries. Below we summarized the findings into 10 key lessons learnt to guide future restoration efforts.



Read full study here: Erdozain, M., Alberdi, I., Aszalós, R. et al. The Evolution of Forest Restoration in Europe: A Synthesis for a Step Forward Based on National Expert Knowledge. *Curr. For. Rep.* 11, 4 (2025). <https://doi.org/10.1007/s40725-024-00235-3>

Forest restoration at the European level.

ICA. They contributed to the development of a global map of real evapotranspiration within the [Copernicus](#) system, which is key to understanding and managing the water cycle.

ICA/IRNAS/CEBAS. They conducted a study in which they revealed the climate and soil factors that shape the microbial life that sustains the wild ancestors of crops, opening possibilities for the joint management and exploitation of plant-soil diversity (*ISME Commun* 5, ycaf143, 2025).

MBG. They head the project "PECTRUM: Decoding the intraspecific engine of functional diversity in a changing world", which aims to decipher the internal engine of plant functional diversity in the context of climate change. Dr Pérez-Carmona, who leads the project, has joined the Functional Diversity and Macroecology of Traits (Traitlab) group with an ERC Consolidator Grant.



Image of the Functional Diversity and Trait Macroecology-GBM group responsible for the PECTRUM project.

IAS. They developed and presented —at the [Transfiere Forum](#)— a system based on a portable LiDAR sensor, temperature sensors in trees, and a web application to know when to water fruit trees with maximum efficiency.



Teresa Riesgo (General Secretary of Innovation of the MICIU), Francisco de la Torre (Mayor of Malaga), together with the authorities of the CSIC and IAS researchers.

ICVV. They showed that the Graciano variety, as well as its intravarietal diversity, responds better than other varieties to rising temperatures (*J Agric Food Res* 22, 102147, 2025).



Graciano variety.

IAS. They are leading a global study to evaluate and improve the ability of crop models to predict the impacts of waterlogging on crops (*Nature Food* 6, 553–562, 2025).



Crop field with waterlogging problems.

Basic and Applied Science in Animal Production

INIA. Together with the Complutense University of Madrid, they are developing the first [comprehensive atlas of the development of the Japanese medaka fish \(*Oryzias latipes*\)](#), a model species, as a reference in developmental biology. More than 3,000 in vivo and histological images, accessible online, document embryogenesis and sexual maturation, constituting an international reference resource.



Histological images representative of the atlas. Sagittal (top), coronal (bottom), and transverse (sides) cuts of a female medaka fish.

ICM. They led the article *A balanced approach to the potential of octopus aquaculture* (*Marine Policy* 179, 10682, 2025), together with scientists from the **IEO**, **IIM**, **IATS**, and 85 other international centres.

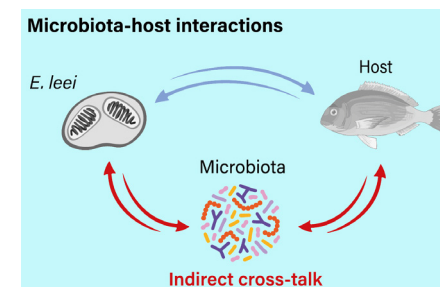
IEO. They reviewed key advances in developing sustainable and efficient octopus aquaculture, highlighting the challenges of raising carnivorous species and the need for alternatives to wild fishing, underlining the importance of animal welfare for responsible farming (*chapter 3 in Aquaculture and Living Resource Management*, vol. 3).

IGM. They explored the use of insect fats as livestock feed, an alternative that could improve the composition of the food that reaches our table (*Anim Nutr* 22, 179–190).

Microbiota, invisible driver of primary productivity

EEZ. They showed how certain beneficial microbes associated with tomato roots activate direct chemical defences in the plant and indirect defences, attracting 'allied' insects that attack pests (*New Phytol* 248, 3256–3269, 2025).

IATS. They discovered connections between microbiota and health in aquaculture species. They demonstrated a clear relationship between the presence of a parasitic microjellyfish and the gut microbiota of sea bream, suggesting the potential to strengthen this species' resistance to infections through future probiotics or healthy diets (*Anim Microbiome* 7, 22, 2025).



Interaction between the microbiota and the parasitised host.



INIA. The Department of Animal Genetic Improvement demonstrated the essential role of the microbiota in animal reproduction. The microorganisms of the vaginal tract studied in three Spanish sheep breeds play an important role in their fertility, enabling potential new strategies to improve the reproductive efficiency of this species (*Microbiome* 13, 177, 2025).

One Health

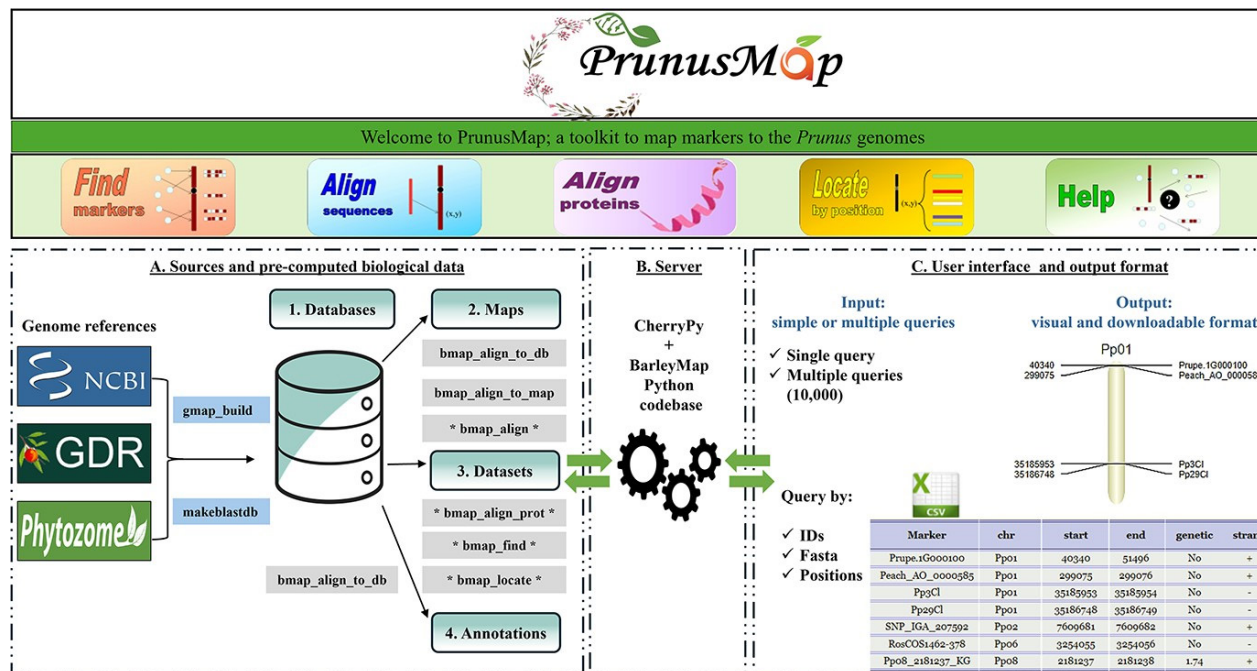
CISA. They investigated the mechanism by which prions that cause atypical scrapie disease (AS) in sheep can be transformed upon transmission to cows, causing bovine spongiform encephalopathy. This is transmissible to humans, reinforcing the need for surveillance to keep AS out of food chains (*PNAS* 122, e2501104122, 2025). They are also heading the development of a computer model that assesses the impact of vaccinating wild boar against the spread of ASF (*Front Vet Sci* 12, 1667173, 2025).

IRNASA. They provided MAPA with new tests to detect ASF vector ticks, which are crucial to preventing outbreaks.

IDAB. They are advancing treatment for animal diseases, such as those caused by sheep lentiviruses, thanks to the development of a viral vector as a vaccine candidate, which activates strong defences in sheep and lambs (*Vet Res* 56, 51, 2025).

The fruits of the genome and biotechnology era

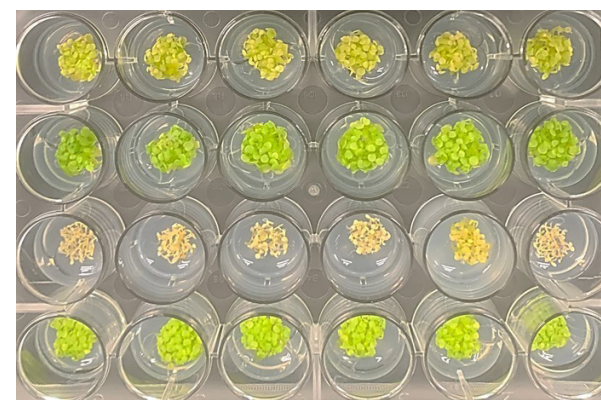
CRAG. They collaborate with MAPA on a pioneering project providing scientific advice on new genomic techniques (NGTs) and their potential use in the agrifood sector, with support from the FECYT. Genome sequencing produces a deluge of data that needs to be interpreted with appropriate tools.



Data flow in the PrunusMap application. The genomes of the genus *Prunus* from sources such as NCBI, GDR, or Phytozome, along with their annotated genes and markers defined on genotyping chips, are indexed to enable efficient searches for nucleotides and proteins (up to 10K sequences). The results are displayed in the browser and can be downloaded for further analysis.

EEAD. They developed a tool to facilitate access to the genomes of fruit species in the genus *Prunus*, such as peach, cherry, and apricot, for crop breeders, freely available online (*Hort Res* 12, uhae301, 2025).

IBMCP. They identified a synthetic compound called X57 whose application can triple the amount of vitamin E in plant leaves. The finding reveals that this compound acts with a triple strategy that had not been achieved before in plants: it stimulates the synthesis of tocopherols (Vitamin E), blocks competing pathways, and favours their storage. This compound is the first to activate all three pathways simultaneously and chemically, without modifying the genome, and is a promising way to achieve healthier, more nutritious food. This vitamin is a powerful antioxidant that, when incorporated into the diet, helps protect our cells against ageing and strengthens the immune system.



Treating plants with X57 changes their colour and doubles their vitamin E content.

Circular bioeconomy

CIB. They coordinate an EU innovation action, ROBUSTOO, which aims to demonstrate the applicability of oxidative biocatalysts for obtaining chemical and material products from biomass components by designing resistant enzymes and producing them at pilot scale.

ICA. They demonstrated the usefulness of employing substrates made from organic waste for urban rooftop agriculture, creating high-quality products (*Urban Forestry Urban Greening 107, 128774, 2025*).



The ICA's MadreenRoof rooftop cultivation pilot project.

Science that connects

IATS. They organised the *Aquaculture Europe 2025* congress, held in Valencia, which brought together 3,000 aquaculture professionals from 97 countries and more than 170 exhibiting companies.



Opening Ceremony of the Congress with representatives of the Generalitat Valenciana, CSIC, Valencia City Council, APROMAR, and EAS.

MBG. They led the organisation of the conference "Another science is possible: diversity, degrowth, and sustainability in ecological research" (III SIBECOL & XVII AEET meeting) in Pontevedra. An international scientific congress that brought together more than 850 specialists in ecology to discuss diversity, degrowth, and sustainability. In addition, it had an extensive program of recreational and informative activities for the population of Pontevedra (<https://sibecol-aeet-meeting2025.org/>).

IRNAS. They organised, in conjunction with the University of Seville, the EUROSOIL 2025 congress, which brought together more than 1000 participants from 63 countries to promote soil health.

EEZ. They held the AGRO-HUB II Andalusia, a congress for doctoral students that serves as a space for exchange and collaboration among young people in the early stages of scientific training.



Attendees of AGRO-HUB II ANDALUSIA PhD Students Meeting.



EUROSOIL Congress 2025.

Earth and Environment

The ocean as a laboratory for global change

COCAD. Working with acoustic data, they demonstrated that data from fishing vessels systematically overestimated the abundance of marine species and that the method based on orthogonal transect design is more accurate (*Ecological Indicators* 172, 113284, 2025).

COC. They used marine hydroacoustics to detect seismic events, using a hydrophone 7 km from Tajogaite and 77 m deep, which recorded 712 earthquake-associated signals during and after the 2021 eruption (*Scientific Reports* 15, 4137, 2025).



Lava flow reaching the sea during the eruption of the Tajogaite volcano.

IIM. They developed the SDG indicator 14.3.1 for Spanish territorial waters before the United Nations to fulfil the commitments of the 2030 Agenda, leading the development and implementation of the official methodology to obtain average annual values of marine acidification (INE) (<https://doi.org/10.20350/digitalCSIC/17918>).

IMEDEA. They lead the REMAR2 project, promoting more sustainable fishing in the Balearic Islands and providing high-resolution scientific data that reinforce co-management, the sustainability of marine resources, and evidence-based decision-making.



Tracking Tools.



The pH of the sea indicates whether the ocean is becoming more acidic. When it absorbs CO₂, its pH slowly drops, affecting corals, molluscs, and other organisms. To measure it, global data from the Copernicus Marine Service are used to calculate monthly surface pH and generate annual averages by region.

CEAB. They exhibited the first global calculation of blue carbon retained by seagrass meadows, revealing their key role as natural sinks and their importance in driving global conservation policies (*Nature Communications* 16, 9530, 2025).



Fieldwork in a seagrass meadow.

COMU. They evaluated the impact of the DANA of Valencia, examining the effects of terrigenous inputs on sediment contamination along the marine continental shelf influenced by the mouths of the Turia and Júcar rivers.



Participants from the COMU-IEO and CSIC, together with the boat used for the study.



COB. They monitored more than a hundred pen shells that survived the mass mortality in the Spanish Mediterranean that has affected the species since 2016. The last nuclei in the open sea are concentrated in protected areas and in Posidonia oceanica meadows. <https://bit.ly/4anj18V>.



Monitoring pen shell specimens in the open sea.

UTM. The first Antarctic campaign of the oceanographic vessel Odón de Buen culminated in testing polar navigation systems and sampling equipment. Echo sounders, nets, samplers, and the oceanographic rosette were calibrated, and underwater images were obtained.

IEO. On the occasion of UNOC3, they welcomed the directors of the world's leading oceanographic institutions on board the ship to publicise Spain's capabilities in ocean observation.

UTM/IEO. They made the first deep dive of the new Hugin AUV, reaching a depth of 1,000 m.



Reception of POGO (Partnership for the Observation of the Global Ocean) directors on board the Odón de Buen.

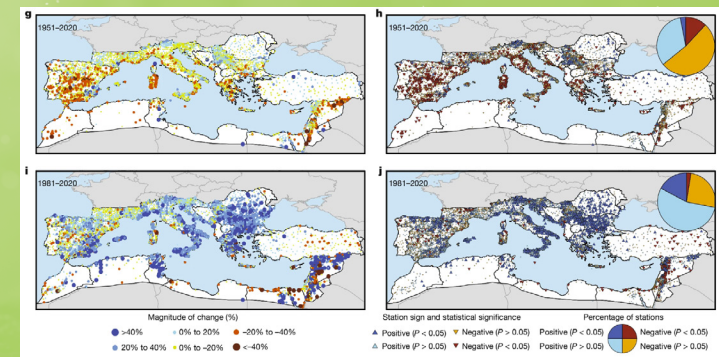
CIDE. They developed the first Meteo-Drone in Spain to improve atmospheric observation. It enables precise, real-time vertical and horizontal atmospheric profiles to be obtained for up to 5–7 km, more economically than sounding balloons, facilitating the prediction and early warning of weather extremes and supporting multiple applications in energy, safety, agriculture, etc.



Meteo-Drone taking meteorological measurements of the atmosphere.

A Planet in Transformation: Climate, Natural Hazards, and New Observation Tools

IPE/IGEO/EEAD. They demonstrated that natural variability has marked Mediterranean rainfall since 1871, according to an exhaustive 150-year analysis. It revealed that although there are dry periods, these respond to internal atmospheric variability rather than to an anthropogenic trend in rainfall reduction, with important implications for environmental and water resource management (*Nature* 639, 658–666, 2025).



Map of meteorological stations and trends in accumulated precipitation in the Mediterranean basin during 1871-2020 (Vicente-Serrano et al., *Nature*, 2025).

MBG/IMIB. They collaborated to provide support and scientific advice to areas affected by forest fires in the natural area of Las Médulas (León), declared a World Heritage Site. The damage caused was evaluated by focusing on analysing the impact on soils, the risk of post-fire erosion, and the use of straw-mulching treatment to mitigate it.



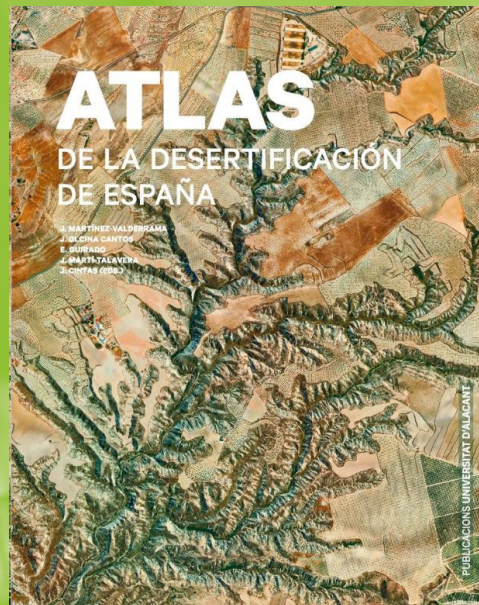
Collection of samples in the Médulas Fire.

GEO3BCN. They explained the Mediterranean paradox, a dry and full sea at the same time, more than 5 million years ago during the Messinian Salinity Crisis. The study combines geological data and models to explain this complex episode that completely transformed the Mediterranean basin (*Science Advances* 11, 28, 2025).



Representation of what the Mediterranean might have looked like during the Messinian salt crisis.

BEZA. They participated in the development of an Atlas to understand desertification, one of the main environmental problems exacerbated by climate change and unsustainable resource use. This Atlas integrates information on climate, water, soil, and land use and presents 16 case studies to illustrate its scope and nuances. <https://digital.csic.es/handle/10261/416525>.

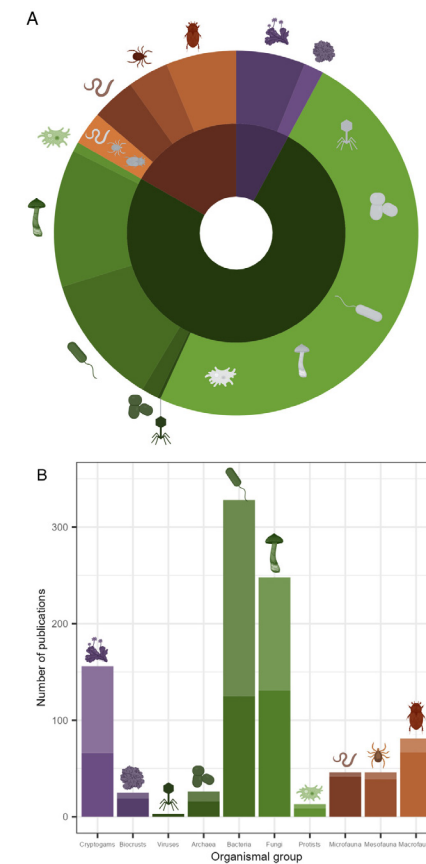


Cover of the Atlas of the Desertification of Spain.

OE. They examined the climatology of large-scale ionospheric irregularities in Europe (2014–2023) and generated a catalogue of their characteristics. The study reveals a strong dependence on local time, season, and geomagnetic activity, with maxima at equinoxes and nights (*J. Space Weather Space Clim.*, 15, 28, 2025).

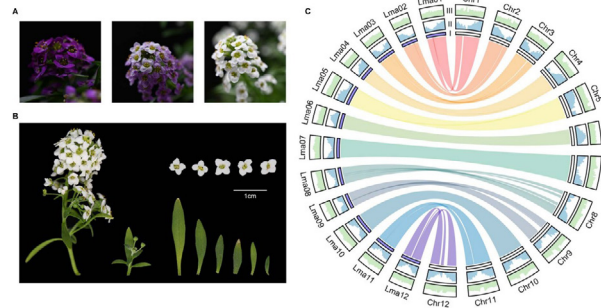
Life in Evolution: Biodiversity, Ecosystems, and Adaptation to Change

IPE. They demonstrated the role of altitude in the biodiversity of organisms in mountain soils. Lichens, algae, mosses, and soil invertebrates decrease with altitude. Archaea and bacteria respond variably depending on climate and soil. The study revealed the hidden diversity of mountain soils and the adaptations that allow them to live in extreme environments (*Biological Reviews* 100, 1877–1949, 2025).



A. Number of publications with a main focus on three large groups of soil organisms in alpine environments: biological crusts, microbiota (viruses, archaea, bacteria, fungi, and protists), and soil fauna (micro-, meso-, and macrofauna). B. The darker colour indicates the number of publications in which the group has been a priority, and the lighter colour indicates those in which it has been secondary.

IBB. They documented that sweet alyssum was domesticated 5,000 years ago (and turned purple 700 years ago). Through genomic analyses, they revealed that the cultivars of the popular ornamental plant *Lobularia maritima* arose from a single domestication event that occurred in Tunisia just over 5000 years ago, and that the purple varieties were selected about 700 years ago, probably in Al-Andalus or North Africa (*Horticulture Research* 12, 4, 2025).



Genomic (right) and floral (left) characteristics of *Lobularia maritima*.

CREAF. They demonstrated that climate change reduces soil health and multifunctionality and predict that, under climate change scenarios, 20% of global belowground

functionality will be lost by 2100, especially in temperate and continental biomes (*Nature Communications* 16, 9337, 2025).



Experimental storage and the program developed to apply online control by applying 'digital twins'.

RJB. They participated in the analysis of the impact of six human activities on Amazonian ecosystems. Between 23 and 28% of the studied area is affected by at least one anthropogenic activity, with greater ecological connectivity within indigenous territories and protected areas (*Annals of Botany* 136(2), 325–342, 2025).



Image of the Juruá River, in the Amazon basin.

IBE. They revealed that marine worms radically fragmented and reorganised their genome when they colonised the Earth 200 million years ago, supporting evolution by bursts. The mechanism of 'genomic disorder', similar to that observed in cancer, would help explain terrestrial biodiversity and provide clues to health (*Nature Ecology & Evolution* 9, 1263–1279, 2025).



Photo of the giant earthworm *Norana najaformis*, whose genome was first sequenced for this study.

MNCN. They revealed, based on the analysis of large volumes of data, knowledge gaps essential for strategic conservation. Terrestrial Antarctica is home to more than 2,000 unique life forms; however, their diversity and functioning remain little explored (*Science* 387, 609, 2025).

View of Mount Erebus from Protected Area 121, Cape Royds, and visitor site 21. An ice-free refuge for soil biodiversity.



EBD. They managed to record, for the first time, the sound of a large noctule preying on a European robin in the air. The finding represents a breakthrough in understanding the ecology and conservation of a species that is nationally and globally threatened (*Science* 390,

178, 2025). They also showed how bears can adapt their diet to the climate and food availability. This change could strengthen the resilience of ecosystems to global environmental changes (*Nature Communications* 16, 10896, 2025).



A large noctule caught in a mist net with a passerine bird feather and blood in its mouth.

IPNA. They collaborated to understand the impact of invasive vertebrates on the seed dispersal of island plants, a critical global challenge given its role in biodiversity loss. This study revealed that the replacement of native vertebrates by introduced animal species severely affects seed dispersal on islands (*PNAS* 122, e2423438122, 2025).



Gallotia galloti consuming fruit from *Plocama pendula* in Tenerife.

Science that connects

COST. They launched the documentary *SOCAVA, underwater life*, which shows the work of the IEO in sampling campaigns and fieldwork conducted by divers, oceanographic vessels, and remotely operated vehicles (ROVs) within the framework of the BIODIV project.



Poster of the documentary.

Tracing our past: human footprints, migrations, and the origin of life

IGME. They published, together with UCM archaeologists and forensic police from the National Police, the discovery of the oldest fingerprint in the world, which has had international media repercussions (including higher alternative metrics of the CSIC in 2025 and recent years) (*Archaeological and Anthropological Sciences* 17, 131, 2025).



Leucogranite pebble with a red ochre stain at the archaeological site of San Lázaro (Segovia); Detail of the stain and multispectral composition image of the fingerprint.

MNCN. They described a facial fossil found in the Sierra de Atapuerca, dated between 1.4 and 1.1 million years ago and attributed to *Homo aff. Erectus*, the oldest human face in Western Europe. The research suggests that Western Europe was inhabited by at least two human species during the Early Pleistocene (*Nature* 640, 707, 2025).

Science to manage the territory: water, soils, governance, and public advice

COST. They work on reforming international seabed governance based on scientific evidence, translating scientific evidence into proposals to reform the international governance of underwater mining, and reinforcing precautionary criteria and independent scientific assessment (*Nature* 646, 9, 2025).

IGME. They expand and diversify hydrogeological research for the Groundwater Action Plan, which serves as advice to the confederations on the sustainable management of the country's water resources, thanks to a significant inter-ministerial subsidy transfer from MITERD.



Seabed.

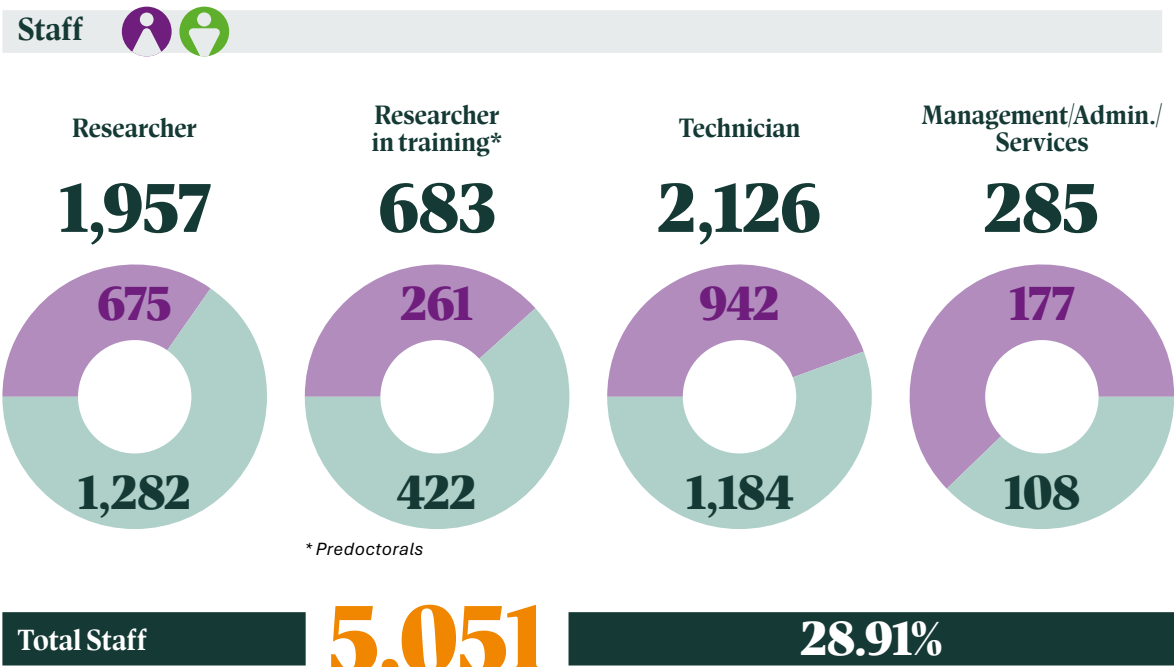


Global Area **MATTER**

Materials Science and Technology

Physics, Mathematics, Robotics, and Computing Science and Technology

Chemical Science and Technology



The area assigned to research staff and researchers in training is the personal area.
The others have been assigned the area of the ICU to which they are adscribed.



National Projects and actions



*Data that includes the number of approved and finalised projects in 2025.

International Projects (UE PM, UE non-PM and Intern)



*Data that includes the number of approved and finalised projects in 2025.

Scientific production



Knowledge transfer

Brands 12	Utility Models 1	Biological Material 2
Software 6	Trade Secret 21	Patents applied for (priority) 75
PCT International Patents (Non-Priority) 49	Operating license contracts 23	Number of licensed objects 27
Science-based Company or Spin Off 7	Musical audiovisual works 1	

Structures of the scientific-technical areas

COORDINATOR

ANTONIO CHICA
LARA

ASSISSTANT COORDINATORS

MARIA JOSÉ CALDERÓN PRIETO
JORGE LOBO CHECA

Area commision

11

members

Data at 31/12/2025.

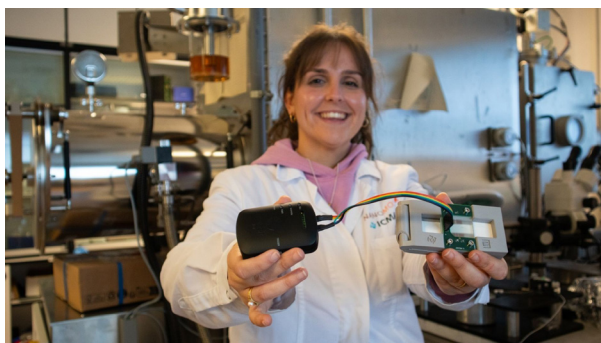


MILESTONES

Health, Biomedicine, and Advanced Medical Technologies

Rapid diagnostic based on paper and organic electronics

ICMAB. They developed and patented a device based on paper and organic electronic materials capable of detecting biomolecules with up to 97% accuracy. The technology generates a measurable electrical response with a portable system, surpassing the performance of many commercial devices and opening up new possibilities for rapid diagnostics in different clinical contexts (*Advanced Materials*, e13468, 2025).



Dr Ortiz Aguayo Showing the Rapid Test .

Nanoparticles to combine radiotherapy and hyperthermia against pancreatic cancer

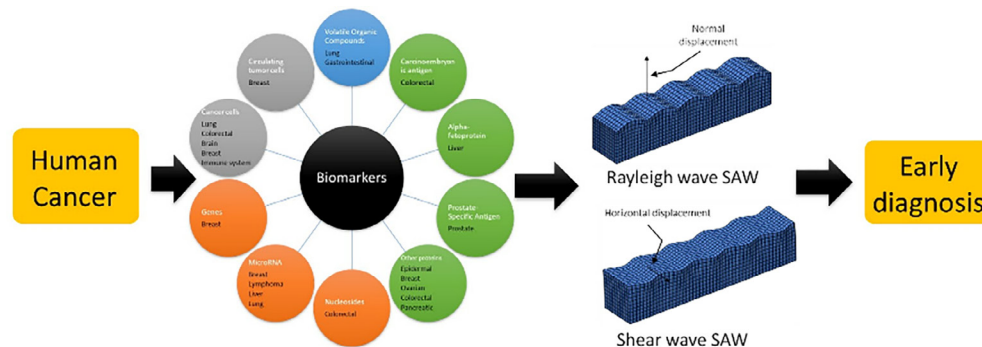
INMA. They designed nanoparticles capable of evolving in the tumour environment and generating complementary therapies that act sequentially on cancer cells. The strategy combines photothermal hyperthermia and chemodynamic therapy, showing efficacy in cell and animal models, opening new avenues to treat pancreatic cancer (*Adv Funct Mater* 35, e02999, 2025).

How the heat of gold nanostars acts inside three-dimensional tumours is revealed

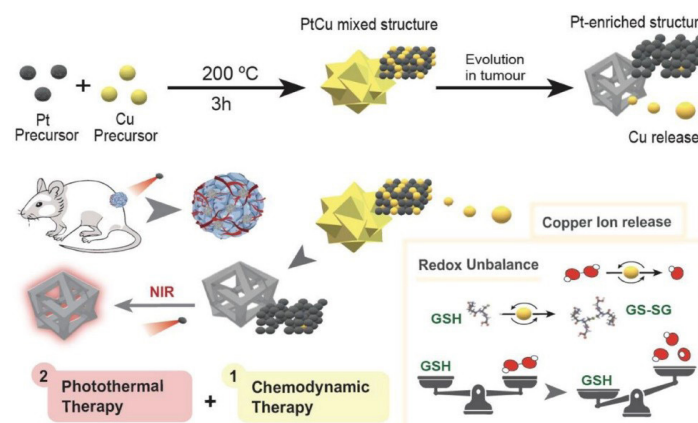
ICV. They determined how gold nanostars generate localised heat during photothermal therapies in three-dimensional tumour models. Using X-ray absorption spectroscopy nanothermometry and multiscale analysis, they revealed the distribution of heat and its effect on the tissue, providing new keys to optimise photothermal therapies based on nanomaterials (*Advanced Healthcare Materials* 14, 2403799, 2025).

SAW Sensors for cancer biomarker detection

ITEFI. Advances in surface acoustic wave (SAW) sensors enable the rapid, sensitive, and non-invasive detection of cancer biomarkers. These devices can identify volatile organic compounds from the breath and biomolecules, such as proteins, DNA, or microRNAs, in body fluids, showing great versatility for medical diagnostics (*Biosensors* 15, 88, 2025).



SAW-based biomarkers for early diagnosis.



Development of platinum-copper nanostructures to improve photothermal therapy and controlled release of copper in cancer therapy.



Unravelling the mechanism of a promising therapy against HER2+ breast cancer

IEM. Using computational simulations, they analysed how the ionisation state of the drug and the linker of antibody–drug conjugates (ADCs) influence diffusion between tumour cells. The results provide a theoretical framework to optimise these therapies and improve their efficacy against HER2+ breast cancer (*Scientific Reports* 15, 28715, 2025).



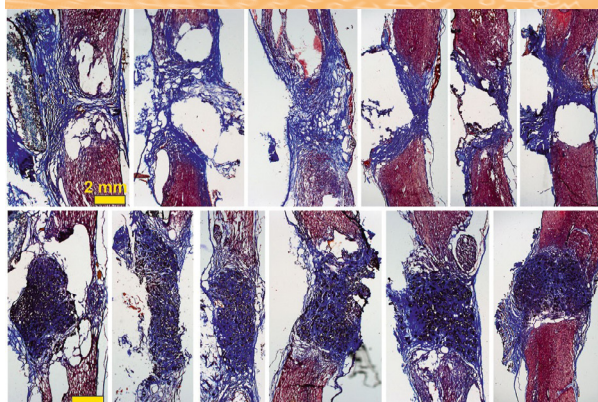
HER2+ breast cancer is one of the most aggressive.



3D-Printable Acrylic Hydrogels for Photodynamic Therapies.

Graphene foams reconnect a severed spinal cord

ICMM. They showed that a three-dimensional reduced graphene oxide foam favours the reconnection of a completely severed spinal cord in a rat model. The material acts as a support for the regeneration of nervous tissue, opening new avenues to develop therapies against spinal cord injuries (*Bioactive Materials* 47, 32, 2025).



The newly grown tissues 'colonise' the injury space in the spinal cord thanks to graphene oxide foam.

Blue LED light-activated hydrogels for photodynamic therapy

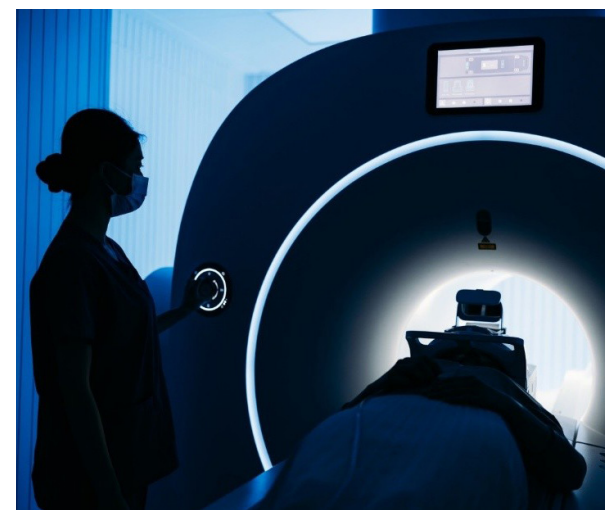
ICTP. They developed photosensitive acrylic hydrogels capable of generating reactive oxygen species under visible light, which eliminate bacteria and reduce the viability of cancer cells. These smart materials, based on semiconductor nanoparticles, can be manufactured using 3D printing and open up new avenues for photodynamic therapies and personalised tissue repair (*Materials Horizons* 12, 2524–2534, 2025).

Improving neuronal maturation through bioelectrical stimulation

IMN-CNM. They demonstrated that bioelectrical stimulation promotes neuronal maturation in human cells more effectively than brain-derived neurotrophic factor, one of the most widely used in research for this purpose. The approach, based on physical signals, opens new strategies for neuroengineering and regenerative medicine, as it is directly applicable to the generation of mature neuronal cultures *in vitro* with minimal chemical intervention (*Scientific Reports* 15, 4772, 2025).

A new PET system improves the diagnosis of brain diseases

I3M. They have installed the DeepBrain system, a positron emission tomography (PET) system compatible with high-intensity magnetic resonance imaging, at the University of Virginia. The technology, based on detectors with cylindrical scintillator glass, improves sensitivity and image quality, optimising the diagnosis of tumours and neurodegenerative diseases.



Silhouette of a patient inside a PET (Positron Emission Tomography) scanner in a hospital.



An acoustic device that fragments kidney stones in half the time

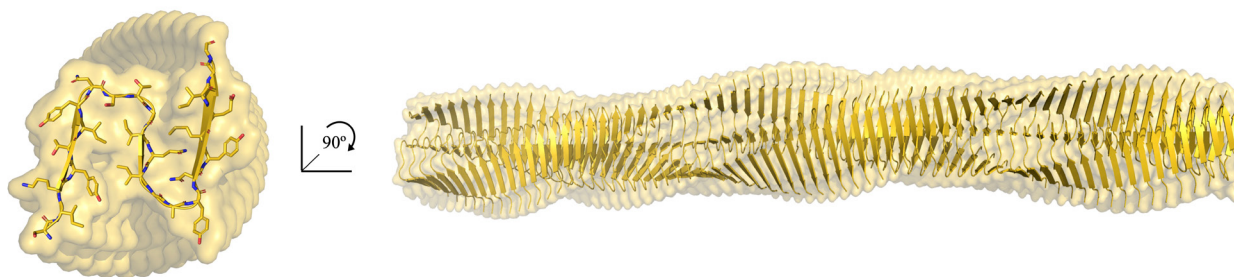
I3M. The Lithovortex device, based on vortex-type acoustic beams to fragment kidney stones, was validated in the laboratory. Tests with artificial and real stones show an approximate 50% reduction in the time required to fragment them. The technique, which is under evaluation, will be applied in a pig model in 2026.

Light-activated molecules to treat psoriasis without side effects

IQAC. They developed photoactivatable compounds that influence the inflammatory processes involved in psoriasis through light, allowing their action to be controlled precisely and locally. This strategy opens up new avenues for more effective treatments with fewer side effects in inflammatory skin diseases (*ACS Central Science* 11, 2340, 2025).

The atomic structure of RIPK1 reveals how functional amyloids are assembled

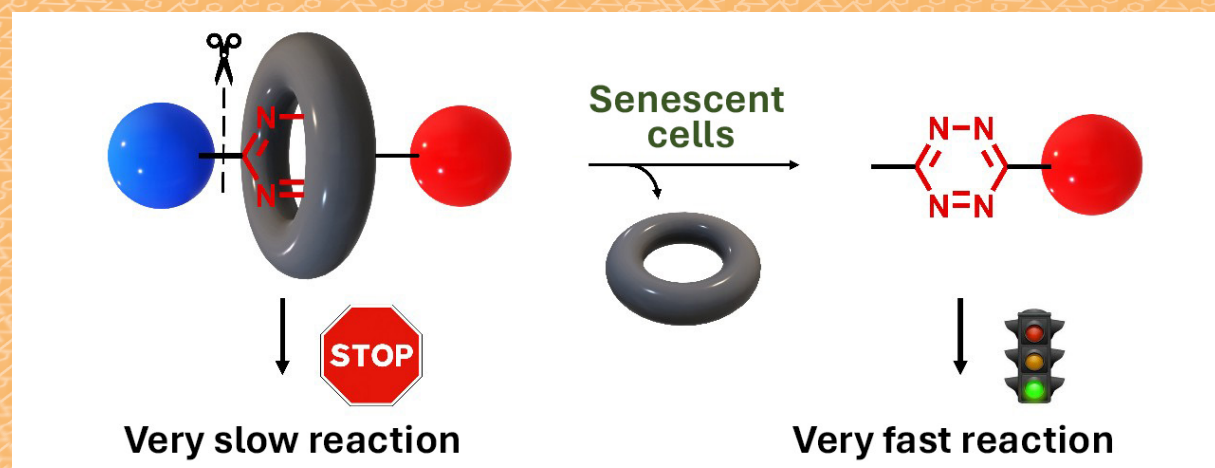
IQF. They determined the atomic structure of the amyloid of the RIPK1 protein, key in inflammatory signalling and cell death. Using solid-state NMR and cryo-electron microscopy, they show how their sequence directs self-assembly, providing new clues about functional amyloids. This study represents a milestone in high-resolution integrative structural biology (*Nature Communications* 16, 9607, 2025).



Atomic model of the amyloid fibril of RIPK1 determined by solid-state NMR and cryo-electron microscopy.

The Power of the Ring: A New Way to Control Bioorthogonal Reactions Inside Cells

IPNA. They show that rotaxation (the formation of dumbbell-like entangled molecules) enables precise control of bioorthogonal reactions inside cells. This strategy offers new tools to activate selective chemical processes in complex biological environments and opens up possibilities in biomedicine and cell chemistry (*Angewandte Chemie International Edition* 64, e202514796, 2025).

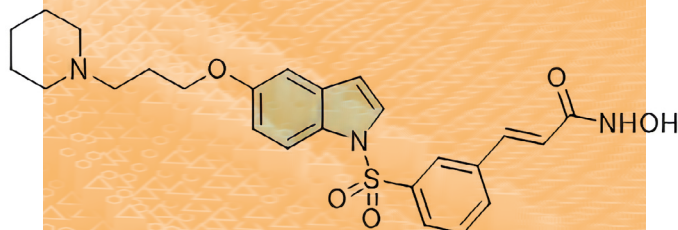


A rotaxane (left) is a compound formed by a molecular axis and a macrocycle that manages to avoid a chemical reaction on the axis.



A multipotent molecule against Alzheimer's and glioblastoma

IQOC. They developed an indole-based molecule—MTP150—that combines properties of Belinostat, an FDA-approved histone deacetylase inhibitor, and the indole nucleus of Contilisant. Its pharmacological profile shows potential for combination therapies against Alzheimer's disease and glioblastoma (*ACS Pharmacology & Translational Science* 8, 831, 2025).



MTP150 Structure.

Age conditions the brain's response to cognitive and physical stimuli

CINN. They revealed how the three-dimensional structure of DNA changes in mouse hippocampal neurons during ageing and after environmental stimulation. External cognitive and physical stimuli promote neuronal maturation in young people and reverse age-associated alterations in older individuals, showing the molecular impact of lifestyle on the brain (*Cell Reports* 44, 116182, 2025).

Environment and sustainability

A pilot plant that converts biomass and agrifood waste into industrial materials

ICP. A pilot plant was set up in Móstoles to recover lignocellulosic biomass and agrifood waste by *organosolv* fractionation with gamma-valerolactone as a recoverable green solvent. The facility, developed within the PTI-TransEner+, will allow the separation of cellulose, lignin, and high-purity furfural in a semi-continuous regime, demonstrating the feasibility and potential for industrial scaling of this sustainable technology.



General view of the ICP pilot plant during its final assembly phase.



Oceanographic Research Vessel Hespérides during the ANTom-II oceanographic campaign in the Bransfield Strait.

Novel production of plastics and pharmaceuticals without toxic metals and solvents

ITQ. They developed a method to epoxidise alkenes using only oxygen or air, without catalysts or solvents. This reaction is fundamental in the chemical industry and represents an important advance in the production of plastics, pharmaceuticals, and detergents without heavy metals or toxic solvents. The technology has been patented, and the results have been published (*Nature Communications* 16, 6542, 2025).

Bacteria reprogrammed to degrade plastics without foreign DNA

ICP. They developed GenRewire, a strategy that combines computational modelling, artificial intelligence, and CRISPR editing to reprogram endogenous proteins, enabling *Escherichia coli* to degrade PET without introducing exogenous DNA. The method opens new avenues for recycling plastics and producing valuable compounds biotechnologically (*Trends in Biotechnology* 43, 2874, 2025).

'Forever chemicals' accumulate in Antarctic waters by atmospheric transport

IQOG/IDAEA. They showed that perfluoroalkyl acids, known as 'forever chemicals', reach and accumulate in Antarctic waters through marine aerosols and the deposition of rain and snow, overcoming the natural barrier of the Antarctic Circumpolar Current through the atmosphere. The results demonstrate the global reach of these compounds and underscore the need to strengthen their environmental regulation (*Communications Earth & Environment* 6, 545, 2025).



Evaluation of the environmental and health impact of the DANA

IDAEA. They analysed pollutants present in dust and sludge generated by the DANA and their potential impact on the environment and human health. The study includes monitoring groundwater quality, the effect on aquifers, and identifying tracers that enable the determination of the source of contamination after floods.



Collecting water samples in irrigation canals in the area affected by the DANA.

Next-generation wetlands to remove pollutants in wastewater

IDAEA. They signed an agreement with AstraZeneca, the Catalan Water Agency, and Llobregat County Council to build a demonstrative artificial wetland capable of removing organic pollutants from wastewater. The system incorporates biochar and reactive materials, allowing the treated water to be renatured and reducing the chemical and ecological impact on the river.

Early warning signs hidden in plant formations discovered

IFISC. Computational models demonstrated the fundamental role of self-organising plant patterns in maintaining ecosystem resilience under adverse conditions. These findings provide valuable tools for monitoring and predicting ecosystem decline, with implications for environmental management and policy (*Proc. Natl. Acad. Sci.* 122, e2412522122, 2025).

Halogen chemistry, key to air quality and climate

IQF. They demonstrated the importance of halogen chemistry in the atmosphere and its influence on air quality and climate. The study, conducted by an international team, shows that these processes have not been considered in global climate assessments to date, such as those of the IPCC (*Nature* 648, 289, 2025).

Spying on a catalyst: how weak interactions control its activity

IPNA. They revealed how small structural modifications to dipeptide organocatalysts alter the network of noncovalent interactions within the catalyst, thereby modifying its reactivity and selectivity in asymmetric reactions. The work provides new keys for the rational design of more efficient catalysts (*Advanced Synthesis & Catalysis* 367, e202401443, 2025).

Unprecedented mechanism of Si-H activation by a cobalt catalyst

ISQCH. They developed a new cobalt catalyst that activates Si-H bonds using a homobimetallic frustrated Lewis pair mechanism. The catalyst is based on Co(I)/Co(-I) and is used for hydrosilane methanolysis. This mechanism allows the heterolytic activation of the Si-H bond and significantly improves efficiency compared with conventional cobalt-based catalysts (*Angewandte Chemie International Edition* 64, e202513522, 2025).



Transition state for heterolytic Si-H bond breakage assisted by a frustrated Co(I)/Co(-I) Lewis pair.

Infrastructures

Acoustic waves to detect and stop ice formation

ICMS. They are developing a technology based on acoustic waves to detect and mitigate ice formation on surfaces as part of the European project coordinated by *Sound of Ice*. The new technology uses controlled vibrations to identify the first stages of freezing and act on them, improving safety in infrastructure and transport.



Wing of an aeroplane surrounded by ice.



Energy

Obtaining electrodes based on carbon nanotubes by aqueous processing

ICB. They used cellulose and chitin nanocrystals to disperse carbon nanotubes in water as a sustainable alternative to organic solvents. For the first time, they compared conductive and electroactive films obtained with both biopolymers, demonstrating their efficacy as dispersing agents. This work has been featured on the cover of the journal *Physical Chemistry Chemical Physics* (*Phys. Chem. Chem. Phys.* 27, 16756, 2025).

Hierarchically porous iron-carbide catalysts for efficient oxygen reduction are achieved

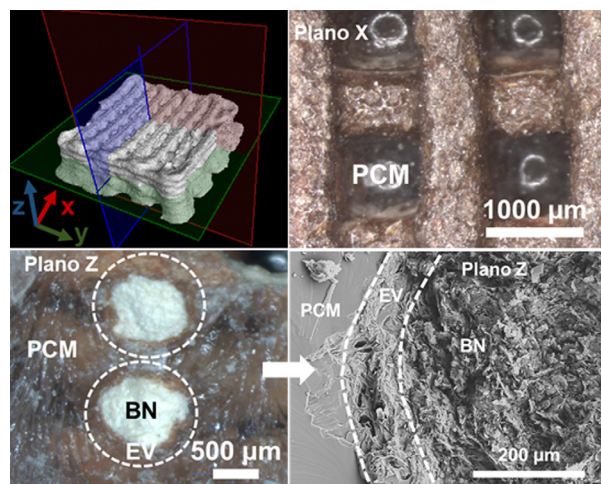
ICB. Through a rational and scalable design of metal- and nitrogen-doped carbons, they synthesised porous Fe₃C@Fe-N-C catalysts from Fe(III) tannin complexes in a hierarchical manner. This process, based on sustainable resources, aims to obtain materials with high electrocatalytic performance and stability, which are fundamental to the viable development of low-temperature fuel cells (*Small* 21, 2406887, 2025).

Metal-organic frameworks as electrodes for sodium and potassium batteries

ICTP. They developed a simple and scalable synthesis method to prepare metal-organic frameworks (MOFs) as high-energy cathodes and power in rechargeable sodium and potassium ion batteries. The breakthrough opens up new avenues for more sustainable electrochemical storage systems based on alkali metals (*Angewandte Chemie International Edition* 64, e202424416, 2025).

Ceramic materials for thermal storage by 3D printing

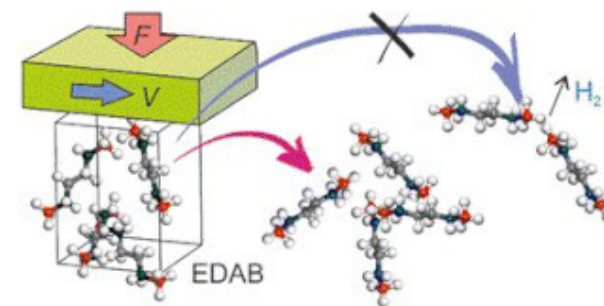
ICV. They developed 3D-printed coaxial ceramic scaffolds that improve thermal energy storage. The structures combine a conductive boron nitride core with a vermiculite crown encapsulating organic salts, thereby achieving a significant increase in thermal conductivity and stored energy density (*J Eur Ceram Soc* 45, 117531, 2025).



Thermal energy storage structure formed by a coaxial filament scaffolding (BN core and a vermiculite crown, EV), 3D-printed and infiltrated with sodium nitrate (PCM). View from above (X-plane) and cross-section (Z-plane) at different magnifications.

Unravelling hydrogen release in molecular hydrides

IETCC. They analysed hydrogen release from molecular hydrides, such as ethane-1,2-diamineborane (EDAB), by studying their tribochemical decomposition pathways. The study uses mechanically stimulated gas-emission mass spectrometry *in operando* to follow these processes in real time (*RSC Mechanochem.* 2, 285, 2025). This work has been highlighted as 'Hot Article 2025' in mechanochemistry by the Royal Society of Chemistry.



Tribochemical decomposition pathways for hydrogen release from molecular hydrides.

New solar cells based on Sb-Ge-Se

IO.F They manufactured the first photovoltaic cell based on Sb-Ge-Se, a material known for its phase changes. By adjusting the germanium content, they modified the semiconductor's bandgap, opening

new possibilities for designing more stable and sustainable solar cells (*Energy & Environmental Materials* 8, e70059, 2025).

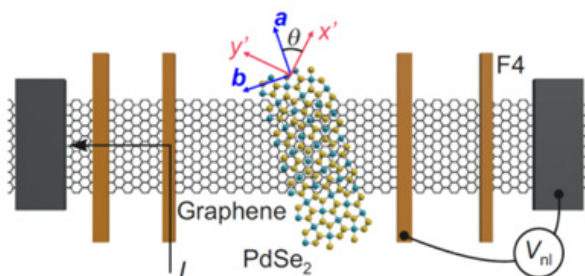
Advanced Materials and Emerging Computing

Sensors built on paper for biodegradable electronics

ICMM. They developed low-cost sensors made of paper that can be dissolved in water after use. This technology opens up new possibilities for biodegradable electronics and temporary applications in diagnostics, environmental monitoring, or disposable devices, thereby reducing the environmental impact associated with electronic waste (*Advanced Functional Materials* 35, e09505, 2025).

Improved spintronics by combining 2D materials

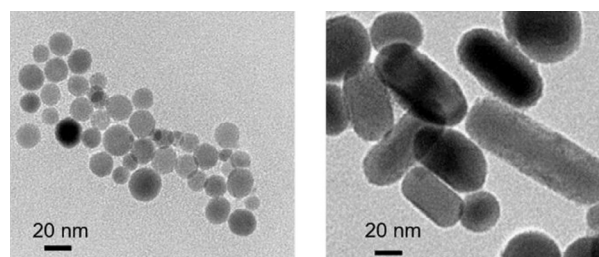
ICN2/ICMAB. They showed that the interaction between graphene and the two-dimensional material PdSe₂ improves graphene's spintronic properties. The study reveals how this combination modifies electron-spin behaviour, paving the way for more efficient computing devices based on two-dimensional materials (*Nature Materials* 24, 876, 2025).



Schematic of the device used to characterise the spin transport properties of graphene in contact with PdSe₂.

Nanoparticles sculpted with unusual surfactants

ICMAB. They developed a strategy to control nanoparticle formation by using rare-earth silicates as high-temperature surfactants. The method enables the production of iron oxide nanoparticles with varied morphologies and the stabilisation of unusual crystal structures, expanding the design possibilities for new nanomaterials (*Journal of the American Chemical Society* 147, 33403, 2025).

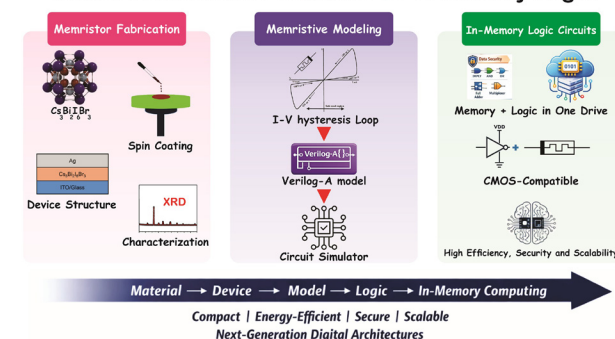


Electron transmission microscopy images show iron oxide particles formed without (round) and with (elongated) a surfactant present during their formation.

Perovskite memristors for next-generation digital systems

IMSE. They develop devices based on perovskites (common materials in solar cells) that exhibit memristive behaviour. These nanodevices can emulate synapse function in the brain and can be applied in neuromorphic computing systems. The work illustrates its potential use in memristor-based digital architectures (*SmartMat* 6, 70032, 2025).

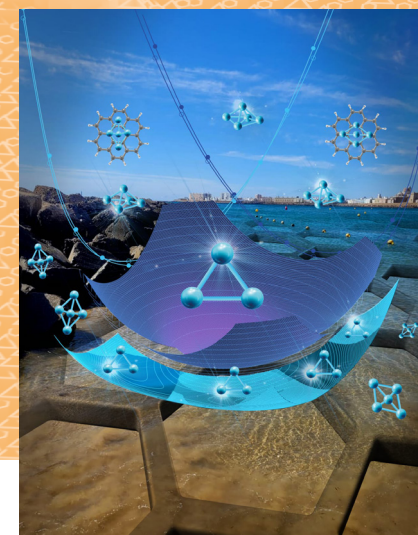
Halide Perovskite Memristors for In-Memory Logic



Design Flow Diagram of Memristor-Based Logic Circuits.

Jahn–Teller-induced structural changes in silver sub-nanometre clusters

IFF. They showed that silver clusters of sub-nanometre size can easily change shape due to Jahn–Teller-type quantum effects, despite being composed of heavy atoms. The work also showed that the chemical environment is decisive for these structural changes (*Small Structures* 7, e202500478, 2025).

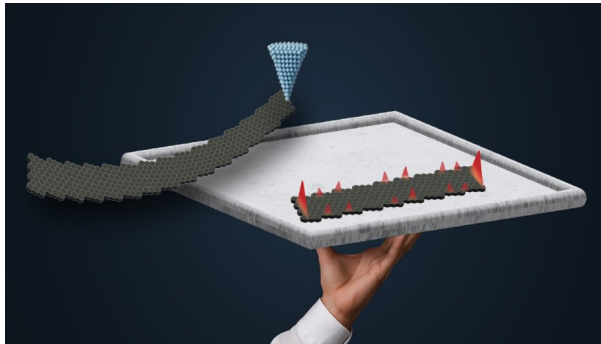


The importance of quantum effects in the modelling of silver clusters.

Quantum Technologies

Magnetic quantum carbon bits activable by electric fields

INMA. They showed that graphene nanoribbons can behave like magnetic quantum bits composed entirely of carbon. The study showed that its quantum spin can be turned on or off by external electric fields, a breakthrough towards creating fully organic qubits and designing bespoke quantum materials (*Nature Communications* 16, 5632, 2025).



Creating magnetic quantum bits made of carbon only.

First quantum computer in Spain based on Rydberg atoms

CINN. Their infrastructure will have the means to manufacture and host a simulator and quantum computer based on Rydberg atoms. This facility, funded by Spain's Quantum Technologies Strategy, will allow the development and testing of new quantum computing architectures and strengthen Spanish research in advanced quantum technologies.



The headquarters of the CINN in El Entrego (Asturias) will house the quantum computer.

Data Science and Artificial Intelligence

Ars Gràcia transforms Passeig de Gràcia's connecting tunnel with art and artificial intelligence

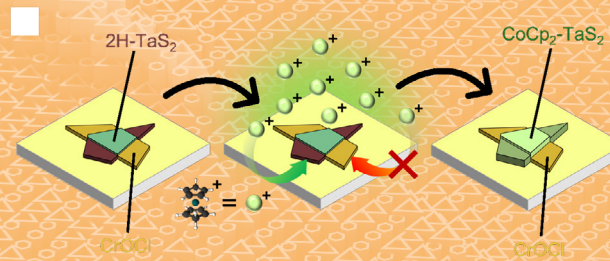
IIIA. The interactive installation Ars Gràcia combines artificial intelligence, music, and citizen participation in the Barcelona metro. Passeig de Gràcia station has become an immersive environment in which real-time sounds and visuals respond to users' presence and activity.



Ars Gràcia installation in the ARS operating mode.

Engineering quantum materials using galvanic intercalation

CFM/INMA. They present a versatile method for intercalating organic cations into van der Waals crystals without damaging thin sheets. The galvanic technique enables the generation of dozens of new hybrid superlattices and the fabrication of vertical and lateral heterostructures in devices, opening new avenues for designing quantum materials with emerging electronic and magnetic properties (*Nature Synthesis* 5, 388, 2025).



Galvanic method that allows selective intercalation on a specific crystal within a stacked structure, leaving neighbouring layers unchanged.

Visitor monitoring in protected areas with AI

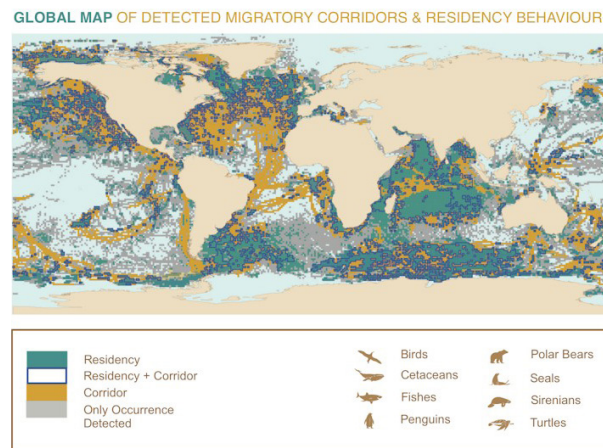
CAR. They developed the first offline/online video-based visitor-counting algorithm, which integrates photo-trapping cameras and deep learning to operate offline in remote environments, reducing manual effort in image processing (*Journal of Outdoor Recreation and Tourism* 50, 100890, 2025).

Do AIs know chemistry? Comparing language models with human experts

INCAR. A study introduces ChemBench, a framework for assessing the chemical knowledge and reasoning of large language models. Analysis of more than 2,700 questions shows that the most advanced models can, on average, outperform expert chemists, although they still fail at basic tasks and generate overconfident answers (*Nature Chemistry* 17, 1027, 2025).

A global study mapped critical areas of marine megafauna using tracking algorithms

IFISC. They identified the ocean regions most critical for the conservation of marine megafauna using geolocation data and motion algorithms. Research applies network science and complex systems modelling to map migratory corridors and multispecies-shared residential areas in the world's oceans (*Science* 388, 1086, 2025).



Global Map of Detected Migration Pathways and Resident Behaviours.

A new model of neurons in the visual cortex improves predictive capacity

IO. They proposed a model of neural activity that incorporates the complexity of dendritic processing and the backpropagation of action potentials. This approach explains neurophysiological phenomena that classical models of the visual cortex could not reproduce and opens up new applications in the design of artificial neural networks (*Journal of Neuroscience* 45, e1975242025, 2025).

Robotics, Sensors, and Instrumentation

A robotic system makes it easier to open sterile medical packaging

IRI. They developed and patented a robotic system that automates the opening of sterile medical packaging, a repetitive and physically demanding task for healthcare personnel. Technology can reduce the risk of injury and improve efficiency in hospital environments. The system has been developed within the framework of the European SoftEnable project (Horizon Europe).

A commercial electric vehicle automated to monitor crops

CAR. Full automation of a commercial electric vehicle, the Renault Twizy, to convert it into an autonomous crop inspection platform. The system enables steering, braking, and accelerator adjustments without human intervention and has demonstrated precision and safety in both experimental and commercial vineyards (*Smart Agricultural Technology* 12, 101530, 2025).

Field test of the automated electric vehicle by the CSIC.

Predictive algorithm inspired by quantum physics

IFF. In collaboration with the CSIC spin-off Inspiration-Q, they have developed a numerical method that optimises the performance of regression algorithms, commonly used in areas such as medicine or finance. The method efficiently identifies which variables or characteristics are most relevant to prediction and has demonstrated advantages in all databases tested (*Mach. Learn. Sci. Technol.* 6, 045059, 2025).

Sensors for monitoring gases in precision viticulture

IMB-CNM. They developed a monitoring system for gases and volatile organic compounds for precision viticulture applications. The demonstrator, installed on an experimental farm in Italy, integrates advanced sensors developed together with European partners within the framework of the AGRARSENSE Chips JU project and improves environmental monitoring of crops and data-driven agricultural management.

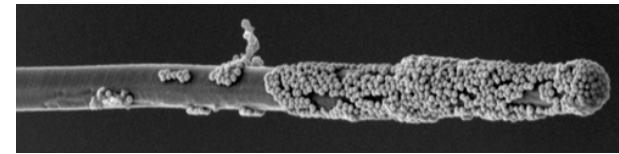


They determined the sensitivity of laser techniques to detect atomic-scale defects in silicon detectors

CNA/IFCA, in collaboration with CERN, they evaluated the sensitivity of laser-detector characterisation techniques using controlled Si, C, and O implantations. This study enabled the detection of very low levels of radiation damage in silicon detectors used in ion-transmission scanning microscopy.

The mass of nanoparticles was determined with high precision by a vibrating probe

IMN-CNM. They developed a method that allows nanoparticles to be extracted from a liquid suspension and their mass to be measured with great accuracy. The technique uses a submersible vibrating probe capable of 'fishing' for individual particles, opening up new possibilities for characterising nanomaterials and studying their physical properties at the nanometre scale.



Scanning electron microscopy image showing gold nanoparticles 30 nanometres in diameter 'fished' with a silicon nanowire.

Cosmos, Astrophysics, and Universe Sciences

The primitive Earth began to oxygenate thanks to the recycling of marine phosphorus

CAB (CSIC-INTA). They reconstructed the phosphorus cycle in oceans 2.93 billion years ago and showed that anoxic recycling from sediments increased its bioavailability. This would have stimulated photosynthetic productivity and favoured early episodes of oxygen accumulation in the Archean Ocean (*Nature Geoscience* 18, 430, 2025).



Artist's reconstruction of an Archaic oxygen oasis. Created by artificial intelligence using generative tools.

They detected dimethyl sulphide in the interstellar medium and questioned its value as a biomarker

CAB (CSIC-INTA). The finding showed that this molecule, proposed as a possible biomarker, can also be formed by abiotic processes in space, which calls into question its reliability for detecting life on exoplanets. This revelation represents a breakthrough in the understanding of chemical complexity in the interstellar medium, as it is the most complex sulphur molecule detected to date (*The Astrophysical Journal Letters* 980, L37, 2025).

A virtual universe for the Euclid mission: the largest catalogue of cosmological simulations

ICE. They head the creation of the largest mock catalogue of galaxies to date, with 3.4 billion simulated galaxies. This 'virtual universe' will enable calibration and validation of the scientific analyses of ESA's Euclid space mission, which is key to studying dark matter and dark energy (*A&A* 697, A5, 2025).

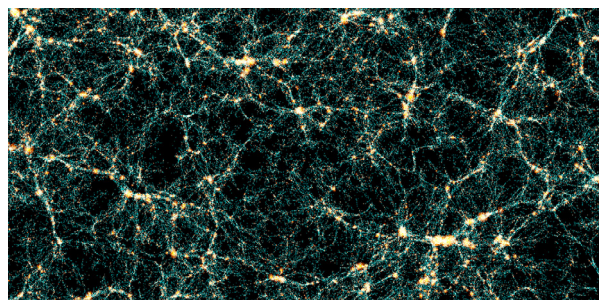


Image from the Euclid Flagship catalogue: each point is a galaxy. Blue: central galaxies in dark matter clumps; Red: satellites. Collectively: large-scale mass distribution of the Universe (clumps, filaments, and voids).

They detect a transient object that emits pulses in both radio waves and X-rays

ICE/IAA. The object, located in the Milky Way, has properties that do not match those of known compact sources, suggesting the possible existence of a new type of astrophysical object. The finding opens new avenues for understanding stellar evolution and extreme phenomena in the Universe (*Nature* 642, 583, 2025).

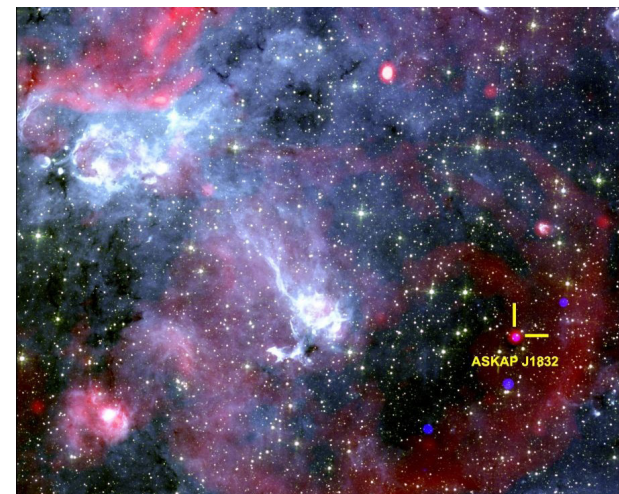


Image of the sky showing the region around ASKAP J1832-0911. X-rays from NASA's Chandra X-ray Observatory, radio data from the South African MeerKAT radio telescope, and infrared data from NASA's Spitzer Space Telescope.

The highest-energy neutrino detected to date

IFIC. The detection was made using the KM3NeT underwater telescope, located at the bottom of the Mediterranean Sea. The finding, highlighted on the cover of *Nature*, demonstrates the great potential of this infrastructure for exploring the cosmos with neutrinos (*Nature* 638, 376, 2025).

The NewAthena space mission moves towards the future multi-messenger X-ray observatory

IFCA/ICE. They are involved in the scientific development of the NewAthena space mission, which passed ESA's Mid-Term Review in 2025. An article in *Nature Astronomy* defines the concept of the observatory, which is designed to study extreme phenomena using multi-messenger astrophysics that combines X-rays, gravitational waves, and neutrinos (*Nature Astronomy* 9, 36, 2025).

Phenalene, the second pure polycyclic aromatic hydrocarbon detected in space

IFF. They detected phenalene in the TMC-1 molecular cloud through observations with the 40-metre radio telescope at Yebes, supported by complementary laboratory experiments. This discovery provides new clues to understanding how polycyclic aromatic hydrocarbons are formed and how chemical complexity arises in space (*Astronomy & Astrophysics* 701, L8, 2025).



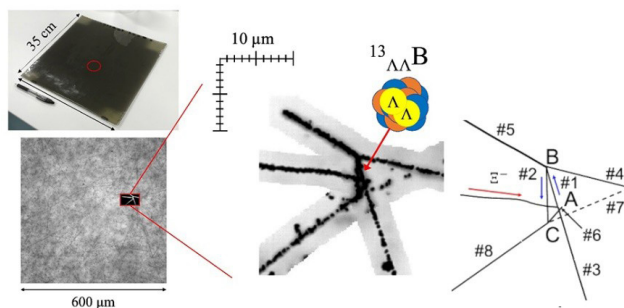
One of the thousands of sensors of the KM3NeT neutrino telescope before its installation on the bottom of the Mediterranean Sea.



Basic Components of Matter

Artificial intelligence allows the discovery of a new double- Λ hypernucleus

IEM. They identified, for the first time in 25 years, a new double- Λ hypernucleus, an extremely exotic type of atomic nucleus containing two strange quarks. The finding was achieved by applying deep learning techniques to a large amount of nuclear emulsion data that remained unanalysed from the J-PARC E07 experiment (*Nature Communications* 16, 11084, 2025).



Identification of the double- Λ hypernucleus using machine learning.

The DAMIC-MLBC prototype sets unprecedented limits in the search for light dark matter

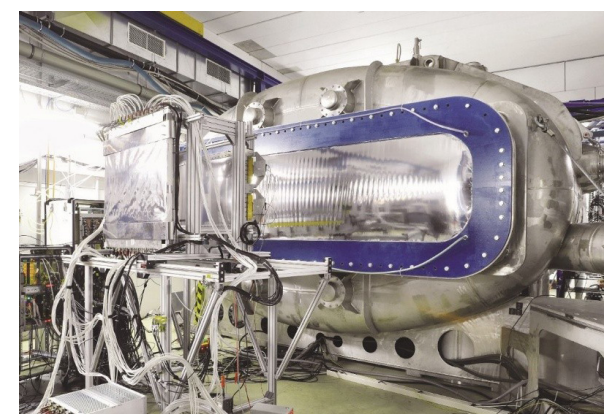
IFCA. The detector reduced the background associated with single-electron events by a factor of 50 and did not observe signals consistent with dark matter. These results impose very strict limits on their possible interactions with matter and, for the first time, exclude certain theoretical scenarios for light dark matter particles (*Physical Review Letters* 135, 071002, 2025).

Effective cross section of Chromium-50, key for nuclear reactors, measured

CNA. They determined, for the first time using neutron activation, the Maxwellian average cross section (MACS) of ^{50}Cr in the HiSPANoS installation. The result rules out a previously proposed increase in this critical parameter for nuclear fission and demonstrates the potential of this technique to improve nuclear data libraries (*Physics Letters B* 862, 139360, 2025).

New region of asymmetric nuclear fission discovered

IFIC. They head a study of the R3B experiment at GSI-FAIR that identified a new region of atomic nuclei that divides asymmetrically. The finding demonstrates that this phenomenon is not exclusive to nuclei close to uranium and has implications for stellar nucleosynthesis and fission energy (*Nature* 641, 339, 2025).

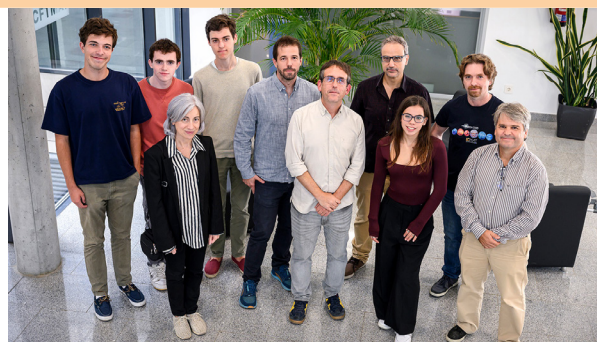


The R3B experiment at the GSI-FAIR research centre in Darmstadt (Germany).

Mathematics

First high-performance mathematics program in Spain for university students

ICMAT. The *Mathematics Intensive Program* was launched to support high-achieving students in the mathematics degree. For four years, they will participate in personalised projects with research staff from the centre and will have access to advanced courses and conferences.



MIP students and tutors together with ICMAT management.

They solve a 50-year-old problem in the mathematics of symmetry

ICMAT. They solved the Baumslag conjecture, a five-decade-old problem of a complex class of algebraic structures. The newly developed techniques expand the tools available for studying symmetry properties in mathematics and can be applied to other problems in group theory (*Annals of Mathematics* 201, 909, 2025).



Science that connects

18th European Congress and Exhibition on Advanced Materials and Processes FEMS EUROMAT 2025

ICV. They organised the main European materials congress—the main event of the Federation of European Materials Societies—under the direction of the researcher Rodrigo Moreno, who has chaired the Spanish Society of Materials since 2025, with 1,800 participants and more than 60 symposia across all areas of materials.

21st International Symposium on Applied Reconfigurable Computing ARC 2025

IMSE. They led the organisation of this symposium held at the Higher Technical School of Computer Engineering of the University of Seville.

International forum bringing together the main European projects for the storage and use of carbon capture (CCU/CCS)



Infographic of the International Forum on Recent Cross-Cutting Developments in CCU/CCS held at INCAR.

INCAR. They organised this international forum on cross-cutting developments in CCU/CCS. Nearly 80 experts from eight European projects shared innovations, challenges, and results, with presentations and visits to the CASOH and La Pereda pilot plants.

5th edition of the European Biosensor Symposium

IQAC. The Nanobiotechnology for Diagnostics (Nb4D) research group organised the 'European Biosensor Symposium 2025' in Tarragona, which brought together more than 200 professionals to present advances in electrochemical and optical biosensors, microfluidics, wearables, point-of-care devices, artificial intelligence, and biohybrid interfaces.

I Symposium of 'Medicinal Chemistry and Biomedicine'

IQM. They organised a conference in which researchers from the CSIC and Madrid universities presented their work in medicinal chemistry and biomedicine.

Symposium ABRE2025 and Tenerife become the European epicentre of biomedicine

IPNA. They organised, together with the University of La Laguna, the ABRE205, Advances in Biomedical REsearch Symposium, which was held for three days in the city of San Cristóbal de La Laguna and addressed key challenges in biomedicine. The program ranged from theranostics and strategies against multidrug-resistant pathogens to cancer, nanomedicine, and antimicrobial resistance.

More than 100 people participated, publicising their research conducted at the centre and establishing new collaborations.



Presentation of the symposium by the director of the IQM, M^a Jesús Pérez de Vega.



Contents



We do science



Science for society



Support structures for research activity



Institutional relations and scientific collaboration



CSIC 2025, a year in figures



Annexes



Science for society



Transfer

The CSIC is consolidated among the European leaders in patent applications and the protection of research results

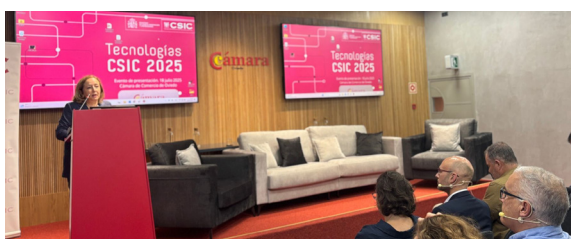
European Patent Office data:

- It is one of the ten institutions that have filed the most European patent applications in the last two decades (1,069).
- It leads the national ranking of European patent applications (5th consecutive year).

Public-private collaboration in strategic technological areas

CSIC COCREA 2025. Challenges Programme that has mobilised companies from strategic areas such as **artificial intelligence, quantum technologies, and advanced materials**, addressing industrial challenges such as decarbonisation and energy storage, including CO₂ capture and conversion and hydrogen technologies; new functional materials; water optimisation using AI; biomedical analysis based on *omics data*, and advanced electronics for quantum circuits.

The catalogue of the 100 most innovative technologies has been updated: from cancer therapies to solutions after the DANA. The visibility of the CSIC's transfer capacities to companies and public administrations is reinforced.



Promotion of Scientific Entrepreneurship

CSIC EMPRENDE. In 2025, it accompanied the creation of new EBCs that span a technological spectrum from biotechnology for agrifood and health, including immunomodulation, high-precision diagnostics and nanotechnology, to photonic materials for climate mitigation, advanced CO₂ capture and recovery systems, state-of-the-art microelectronics, and digital platforms for sustainable water management.

1st CSIC EBC impact report highlighting their direct contributions in terms of employment, investment, economic returns, and industrial deployment.

Connecting science and society

Open Innovation Hub, CONVERGE. It has engaged **919 researchers**, making it easier for **438 companies and agents of the innovation ecosystem** to establish direct contact with the scientific fabric of the CSIC.

Dialogues between science, companies, and public administrations

CICERO 2025 Itineraries. They address challenges related to sustainable urban mobility, natural risk management, the circular economy, global health in the face of zoonotic threats, improving the quality of life of people with ALS, restoring biodiversity in habitats undergoing varying degrees of human transformation, and the comprehensive approach to understanding the challenges and opportunities associated with rare diseases.

Pre-Commercial Public Procurement (PPP). NEUROMODULATION Project

In 2025, delivery of two prototypes of non-invasive neuromodulation technologies to the CSIC, provided by the Centre for Technological Development and Innovation (CDTI), was completed. These facilitate **non-invasive access to the central nervous system** and enable the **study and testing of new drugs for neurological diseases**. Its scientific validation will be conducted at the "Alberto Sols-Morreale" Biomedical Research Institute.



Society

INCIPIT. At the National Knowledge Transfer Awards IPfest 2025, they received the Da Vinci Award in Galicia for the most inclusive initiative in the sciences, humanities, and arts in innovation and transfer. It recognises the institute's long history in the co-construction of knowledge between the scientific world and social agents.

IAM. The Tarteso construction project wins the II CSIC Award in the Knowledge Transfer modality in recognition of its dissemination work and the socio-economic impact of the project, within which the excavations at the Casas del Turuñuelo site (Guareña, Badajoz) are included.

Life

FOOD SCIENCE AND TECHNOLOGY

Advances in food safety and risk control

IATA. The US company GSD-Horsham, co-owned with the University of Valencia, has licensed an exclusive patent on a technology developed for the **rapid analysis of dihydroanatoxins, a group of biotoxins produced by cyanobacteria**. The method is based on immunoassays that enable rapid, sensitive detection of these toxins, facilitating their control in aquatic systems and the food chain. PCT/ES2025/070383.

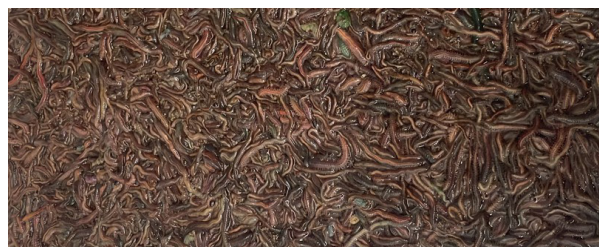
GSD-Horsham commercial kit incorporating immunoreagents generated by IATA's Food Analytical Immunotechnology group.



AGRICULTURAL SCIENCES

Basic and Applied Science in Animal Production

IEO. They developed the **cultivation of polychaetes**, which enables the **production of biomass in quantity**, required as an ingredient/additive in aquaculture feed. To this end, they have developed a complete, registered, and protected [protocol](#) for use by industry.



Hediste diversicolor harvest in the Polychaete Cultivation Unit.

Science that connects

IRNASA. They hosted the 'AGROTEST DIGITAL Salamanca' conference, with twenty companies and entities that presented innovations in **sensorisation, robotisation, and precision agriculture**.



Without reinforcement

Reinforced with bioadaptive

Demonstration of the resistance obtained thanks to LIGNOECOPACK.

Circular bioeconomy

ICIFOR. They have developed an innovative technology, LIGNOECOPACK, which **reinforces paper and cardboard packaging with lignocellulosic waste**, enabling the replacement of less sustainable materials and reducing environmental impact, and is currently offered in the CSIC's catalogue of spin-off projects.

One Health

IPLA. The bacteriophage virus INO-1 has been licensed for commercial use. It is an effective and safe alternative to antibiotics for **treating skin infections in pets**.

EEAD. They have patented a [simulation system](#) to **control the spread of invasive species**, such as the zebra mussel, which is present in almost 20% of Spanish reservoirs and damages pipes and irrigation systems.



EARTH AND ENVIRONMENT

Science to manage the territory: water, soils, governance, and public advice

IDAEA. They are promoting their first spin-off in applied hydrogeology, **iAQUANT**, to **translate knowledge in hydrogeology and aquifer modelling into real-world water management.**



The president of the CSIC, Eloísa del Pino (left), together with the CEO of iAQUANT, Olga Raventós, and the IDAEA researcher Enric Vázquez-Suñé.

Matter

HEALTH, BIOMEDICINE, AND ADVANCED MEDICAL TECHNOLOGIES

Graphene Brain-Computer Interfaces to Treat Neurological Disorders

ICN2. The spin-off, **INBRAIN Neuroelectronics**, develops graphene-based devices that record and modulate brain activity with high precision to **improve the treatment of neurological diseases.** To that end, it has partnered with the Mayo Clinic to advance the technological development of brain-computer interfaces.

New drug for liver diseases

ITQ/IBM. They created the spin-off, **Novatem Biopharma**, following the development of a low-toxicity anti-inflammatory compound (AG5) that controls the cytokine storm without suppressing the innate immune system. It acts as an immunomodulator and shows therapeutic potential in liver diseases (NASH) and complications associated with CAR-T therapies or antibodies.

INFRASTRUCTURES

An anti-mould spray included among the CSIC's 100 most innovative technologies



Product against mould.

IETCC/CENIM. The developed technology is an antifungal spray specifically formulated to combat the proliferation of moulds in homes affected by climate catastrophes such as DANA. It is applied by spraying and acts directly on the cell wall of the fungus, preventing its regeneration.



Graphene-based medical technology from INBRAIN Neuroelectronics.

Photonic concrete to reduce urban warming

CFM. **Photokrete**, a spin-off of the CFM together with the UPNA and the EHU, develops photonic cementitious materials with autonomous radioactive cooling. The new mortar demonstrates its ability to cool by absorbing daytime solar radiation, maintaining temperatures below ambient, and opening new paths to reduce the warming of buildings and urban infrastructure.

ROBOTICS, SENSORS, AND INSTRUMENTATION

AI and robotics to predict defects in industrial materials and welds without destroying the material

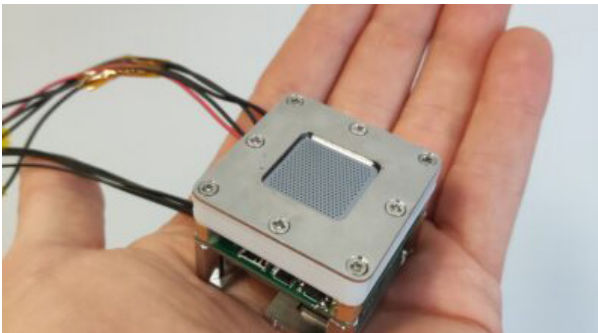
CENIM. The **HighVision** company, a spin-off of the CENIM, uses AI and robotics for the inspection and non-destructive prediction of defects in welds, industrial materials, and gas pipelines. It has been recognised with the SECOT-Repsol Foundation Sustainable Entrepreneur Award.



The Metals for a safe and sustainable society team of the CENIM-CSIC in Paterna, Valencia, visiting gas pipelines, collecting samples to validate and improve the HighVision algorithm.

Industrial production of electric thrusters for nanosatellites boosted

IMB-CNM. They are participating in a Spanish Space Agency initiative, led by the company IENAI Space, to industrialise more efficient and economical electric propulsion systems for small satellites. The IMB contributes its expertise in nanostructuring of three-dimensional surfaces and in silicon micro- and nanosystems applied to space technology.



Thruster module next to the control electronics, with two chips in the centre (only one is visible), manufactured at IMB-CNM.

SCIENCE THAT CONNECTS

Industry Day 2025: AI and robotics demonstrators for Spanish industry

CAR. They organised *Industry Day*—a technology transfer event—together with the CSIC AIHUB's Artificial Intelligence Connection and the DIH AIR4S, coordinated by the UPM. Research staff and companies **shared AI and robotics demonstrators applied to health, agriculture, transport, and industry**, consolidating the centre as a strategic bridge between academia and the production sector.

II CSIC TRANSFER AND ENTREPRENEURSHIP AWARDS

Award-winning projects on:

- Genetic improvement of fruit trees (**CEBAS**).
- N₂O Removal Catalyst (**ICP**).
- Tartessus Reconstruction and Study (**IAM**).
- Genomics applied to public policies for pandemic and disease control (**IBV**).
- Web Application for Fishery Data Visualisation (**ICM**).
- Rapid diagnosis of bacterial lower respiratory tract infections (**IQAC**).
- Nanotechnology applied to materials (**ICMM**).
- **CIB-CSIC**, for its outstanding track record in knowledge transfer in biotechnology and biomedicine.



II CSIC Transfer and Entrepreneurship Awards. Award ceremony in the CSIC assembly hall.

Emergencies

Throughout 2025, the CSIC's Disaster and Emergency Advisory Group (GADE) has been activated on several occasions, mobilising:

399
professionals
of different levels

43
research centres, institutional delegations,
and the central organisation of the CSIC

Featured activity in 2025:

Fire in the natural area of Las Médulas (El Bierzo, León), declared a Site of Cultural Interest (BIC) of Castilla y León

Advice on environmental and geological damage following the fire that affected this cultural and natural environment in August 2025. Twenty-five reports were generated, and there were 11 meetings with the Las Médulas Foundation and four with the Interdisciplinary Technical Team for the Recovery of Las Médulas (ETIR).

54 Participants	
IGME	22
ICIFOR	9
IMIB	8
ORGC	4
MBG	4
ICMAN	3
MNCN	2
IH	1
INGENIO	1



DANA

A year after the DANA, the CSIC continues to provide scientific support with environmental monitoring projects or the reuse of sludge as construction material.



The CSIC, through the IETCC, has been awarded, along with other entities, the **1st Prize** in the category **"Outstanding Projects Added Value to Society"**, within the National Awards of the Mining and Life Foundation, for the project: "Science in Action and Public-Private Collaboration: Modified clays and advanced additives to combat the effects of the DANA".

Activation of the European Civil Protection Mechanism following the Praid salt mine floods in Romania

The IGME-CSIC provided an expert in environmental impact as part of a European Union Civil Protection Team, offering its experience in the restoration of areas contaminated and degraded by mining activities.

Garachico volcanic eruption drill (Tenerife)

Volcanic Eruption Drill in the context of a European Union exercise (EU-MODEX), in which the mechanisms for coordination and collaboration with Civil Protection authorities, and the deployment of the CSIC emergency module required, were tested to guarantee greater autonomy in cases of disasters and emergencies.



13 Groups activated

- Marine Risks
- Petrology/geochemistry
- Drones
- Physical volcanology
- GIS
- Social risks
- Waste
- Terrestrial biodiversity
- Subsurface monitoring
- Geodesy and gravimetry
- Air quality
- Hydrogeology and volcanic gases
- Infrastructures

42 Participants

IGME		16		
IEO		7	IGEO	2
DELEGATE CANARIAS		5	IETCC	2
IPNA		3	CEBAS	1
INGENIO		2	ICMAN	1
GEO3BCN		2	ICIFOR	1



Science for public policy

Preparation of **THREE new thematic reports** that present **solid scientific evidence** on a scientific and social problem. The knowledge generated at CSIC centres and institutes is transformed into contributions accessible to a non-specialised audience and provides information to support political decision-making.



Artificial intelligence

It explains how this technology's evolution and potential impact on our society make it a tool that can be effectively integrated into the formulation of public policies. It also includes some of the most outstanding innovation lines that the CSIC is pursuing regarding the potential use of artificial intelligence in policy management across areas such as education, welfare, social action, and sustainability.



Cultural heritage at risk

It analyses how cultural heritage, one of the main values of today's society, is affected by climate change, which is further aggravated by growing anthropogenic pressures (demographic, economic, and industrial). Likewise, the impacts arising from the alteration and destruction of cultural heritage are considered, and the actions and research lines that the CSIC is developing to address this challenge are presented.



The loss of biodiversity in the current scenario of global change

It analyses the complexity and social importance of biodiversity for life on Earth, as well as the main causes and consequences of its loss over the years. Similarly, this work includes some of the main lines of action that the CSIC is pursuing to address this problem at the national level, including long-term conservation, legislation and territorial planning, and scientific evaluation activities aimed at reversing certain trends. It also includes the institution's main contributions to major political lines at the international level, especially in Europe.



Access to the CSIC's collection of thematic reports.



CSIC investiga magazine

A biannual informative magazine dedicated to current scientific research topics.

It showcases the CSIC's research in archaeology and heritage science, spanning the origins of humanity, the Neolithic revolution, civilisations, and the modern world.

It showcases the CSIC's research in quantum physics, covering computing, cryptography, and metrology.

Scientific culture and citizen science

Outreach events

European Researchers' Night with + 200 activities in which CSIC specialists shared their science with people of all ages in free activities and in a variety of formats (meetings, workshops, children's games, gymkhanas, talks, exhibitions, guided tours, experiments, astronomical observations, arts and science shows) in **10 autonomous communities**.



XXV Science and Technology Week, with nearly 400 activities developed in centres throughout Spain, brings research staff closer to the general public.



Projects

Myth-busters

Educational program aimed at 1st- and 2nd-year ESO students to identify and **debunk scientific hoaxes**. The initiative offers activities such as a science-and-humour show, online training, and a video contest. In the 2nd edition, about **4,000 students** participated, and around **400 proposals were received**.

Science city

The project is **present in 59 locations** throughout the Spanish territory. **+130 activities** were organised and attended by **40,500 people**. The annual event 'Science takes to the streets' was held in Astorga from April 24 to 30 with a dozen activities organised for all audiences.

Research staff and leisure and free time monitors at the 'Science takes to the streets' Fair in Astorga on April 25, 2025.



Seville Science Fair as a meeting point for the four cities (with students from Barcelona and l'Hospitalet).

Science in the neighbourhood

Around **13,500 students enjoyed + 200 actions** across the 45 centres comprising the network in its 9th edition. An initiative already consolidated in Madrid, Seville, and Barcelona that, for the first time, was carried out in L'Hospitalet de Llobregat. A new type of centre joined the network, the **Hospital Classroom of the 12 de Octubre Hospital**, where actions were carried out, especially for the Child and Adolescent Psychiatry Unit.

The CSIC at school

A program that offered 15 courses, seminars, workshops, and scientific training presentations throughout the year, **aimed at around 500 teachers**.

Six Regional Scientific Meetings were held between infant and primary school students, teachers, and CSIC researchers, with more than 1,500 attendees.

A **collaboration agreement with the Ministry of Education, Vocational Training, and Sports** was signed to develop the "CSIC at School" programme, based on active collaboration between scientific and teaching staff, thereby enriching pedagogical practices with advances and methods from scientific research.

Within the framework of the **Erasmus + Accreditation** project, five mobilities were carried out to five European countries.

CSICX+

In its 5th edition, it travelled to five Spanish cities with **"La Buena Energía X+" (The good energy X+)**, a multidisciplinary show for the whole family that combines science, art, and emotion. The content travelled from eclipses to the poles and oceans, passing through the waves, the brain, and Cajal. A sensory and participatory experience that toured Mérida, Alicante, Madrid, Fuengirola, and Santiago de Compostela under the direction of Dr X+, played by the CSIC astrophysicist Daniel Guirado, to bring knowledge closer to all generations. The shows had **2,300** face-to-face attendees, and the website received about **25,500 visits**.



CSIC cinema 2025

Its 4th edition was held in Madrid, premiering a new location in the Conde Duque Contemporary Culture Centre, and in Barcelona (ICM). **+1,200 people** attended the four sessions, titled Arrival, Deaf, The 47, and Flow, all of which were free and inclusive for people with disabilities.



CSIC X+ show at the Palacio de la Paz in Fuengirola. Pablo Lozano (IEO) and Montserrat Benitez (EEA) participated as guests.

Podcast "Science for reading"

The podcast aired 10 episodes, three of which were recorded live at the Estación Podcast Festival, the Telefónica Foundation—on the occasion of the European Researchers' Night—and the House of Science in Seville.

Educational Communication Award given by Educafestival.

Videos featuring research staff were a social media success, with some surpassing 200,000 views.

Citizen Science

+ 85 active projects that encourage citizen participation in the generation of scientific knowledge. They integrate contributory, collaborative, and co-creation models.

+ 40 participating centres and institutes, belonging to the three global scientific areas and with reach across the national territory.

Collaboration Initiatives with a wide and diverse range of actors, including universities, non-governmental organisations, neighbourhood associations, companies, foundations, local administrations, farmers, fishermen, students of different educational levels, and citizens in general, at both the local and national levels.

Large outreach venues

House of Science Valencia

Lecture series "Science in an emergency: the DANA". Coinciding with the first anniversary of the catastrophe, and organised by the CSIC Delegation, it addressed the recovery advisory work that the organisation has developed and is developing in the affected areas. [Link to the news.](#)



Outreach initiative 'Science in the House... at the House of Science'. For the first time, dissemination, education, and citizen science initiatives were launched to promote scientific culture and make science more accessible to everyone. [Link to the news.](#)

Natural Science Museum

Temporary exhibition "Dinosaurs Among Us" developed in collaboration with the American Museum of Natural History and other international and national institutions. The origin of birds from theropod dinosaurs was addressed, combining panels, reproductions, fossils, an immersive room, and touch stations.



General view of the MNCN during the celebration of "The Night of Darwin and Wallace".

Celebration of the sixth edition of "The Night of Darwin and Wallace" to highlight their legacy. There were scientific demonstrations by research and curator staff; scientific theatre, a performance on climate change and an informative monologue; dinner and music with a DJ to end the activity.



Graphic identity of the exhibition "Dinosaurs Among Us".

House of Science Seville

The numbers consolidate the success of the House of Science in Seville. It is one of the most active spaces for scientific outreach in southern Spain, with more than 750,000 visitors since its opening (2013), of which 61,727 correspond to 2025. There were 739 workshops with 13,719 attendees and 825 guided tours.



Visitors at the permanent exhibition "Andalusia: Biodiversity Laboratory".

Exhibition "Brain(s)". It has been one of the most ambitious exhibition projects, as it is the museum's largest international exhibition to date. In addition, it has been a challenge in terms of scientific mediation, addressing complex content on neuroscience and health aimed at a very diverse audience (51,001 visitors).



Members of CSIC Alumni visit one of the halls of the "Brain(s)" Exhibition.

Royal Botanical Garden

The **270th anniversary** featured various initiatives, including conferences, exhibitions, book presentations, meetings with the Garden's staff, and guided tours, bringing the RJB's history and scientific value closer to the public as a reference institution for research, conservation, and the dissemination of botanical knowledge in service of society.

Art, science, and ecology in the exhibition 'Colour Amazonia'. In collaboration with the Colombian Embassy in Spain, the Colombian artist Susana Mejía, the exhibition's author, presents an investigation spanning almost two decades. With the ancestral knowledge of the Huitoto and Tikuna as guides, eleven botanical species were identified and the alchemy processes that allow the artisanal use of their pigments to dye natural fibres, exploring the close relationship between processes, people, and the environment. [Link to the news.](#)



From left to right, the director of the RJB-CSIC, María-Paz Martín; the Colombian ambassador to Spain, Eduardo Ávila; the artist Susana Mejía; and the director of Artesanía de Colombia (Colombian Art Crafts), Adriana Mejía, pose in front of one of the works in the Cavanilles Chair.



A moment from the Secretary General for Research's visit to the exhibition.

A journey through the microscope to learn about the endangered seeds of the Iberian Peninsula.

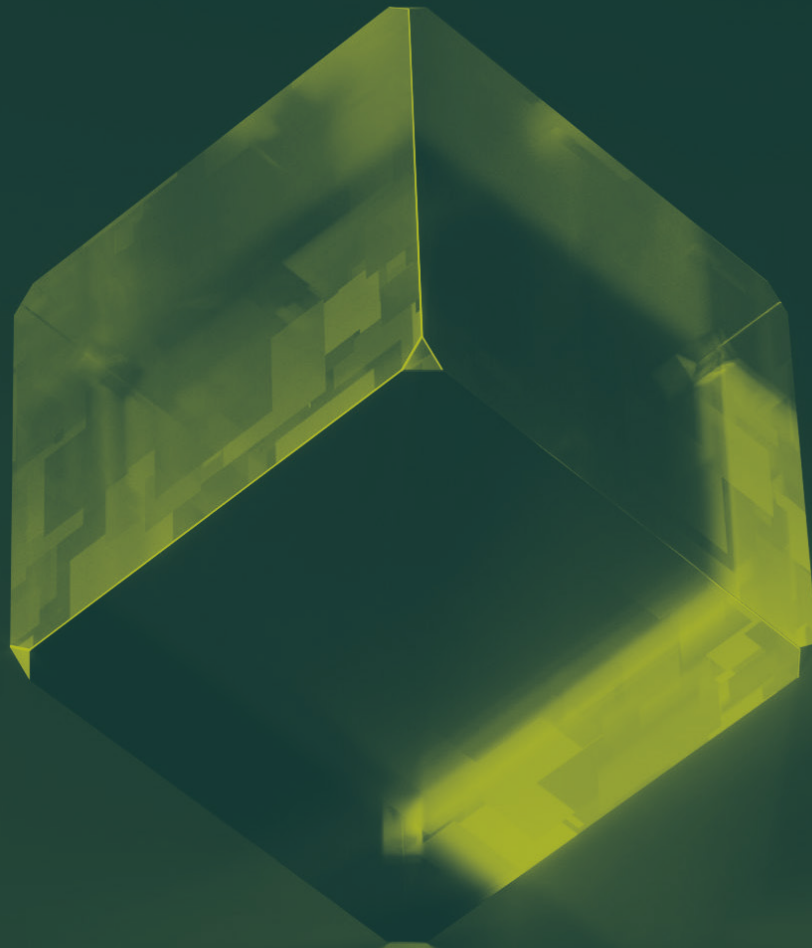
Travelling exhibition to disseminate information about the role of the RJB Germplasm Bank, created in 1982 and integrated into the Spanish Network of Seed Banks, and to raise awareness about species extinction and the growing loss of global biodiversity. During her visit, the MICIU General Secretary of Research underscored "the clear, direct, and simple way of explaining to society the importance of protecting our natural environment, in this case, through threatened seeds. This exhibition is a clear example of the importance of scientific dissemination, as science will never be important until citizens understand what we do".

[Link to the news.](#)

Geomining Museum

Publication of the book **Geomining Museum: collections, dissemination, research**, marking its 100th anniversary.

An app for virtual or face-to-face museum visits was developed under the Ministry for Digital Transformation's Transformation and Resilience Plan.



Support structures for research activity

Contents



We do science



Science for society



Support structures for research activity



Institutional relations and scientific collaboration



CSIC 2025, a year in figures



Annexes



Research and research support structures

Research Institutes

121 **70** **49** **2**
Own Joint Associated

National Centres

3 INIA IEO IGME
9 12
Oceanographic Territorial
Centres Units

Interdisciplinary Thematic Platforms

17

CSIC Conexiones

15

Specialised Technical Units

4 **3** **1**
Own Joint

Service Integration Centres

9 **6** **3**
Own Joint

Institutional Delegations

18 **17** **1**
National European Union
(Brussels)



Islas Baleares

20 ● 1 ● 1 ● 1 ●

Cataluña

20 ● 1 ● 1 ● 2 ● 1 ●

Aragón

5 ● 1 ● 1 ● 1 ● 1 ●

Navarra

1 ● 1 ●

La Rioja

1 ● 1 ●

País Vasco

2 ● 1 ●

Cantabria

2 ● 1 ● 1 ●

Principado de Asturias

4 ● 1 ● 1 ● 1 ● 1 ●

Galicia

4 ● 2 ● 1 ●

Castilla y León

5 ● 2 ● 1 ●

Madrid

39 ● 3 ● 1 ● 5 ● 1 ●

Extremadura

1 ● 1 ●

Castilla-La Mancha

1 ● 1 ●

Comunidad Valenciana

11 ● 1 ● 1 ●

Andalucía

20 ● 2 ● 4 ● 1 ● 1 ● 2 ●

Murcia

1 ● 1 ● 1 ● 1 ● 1 ●

Canarias

1 ● 1 ● 1 ● 1 ● 1 ●

Brussels

1 ●

Rome

1 ●

● Research Institutes

● National Centres

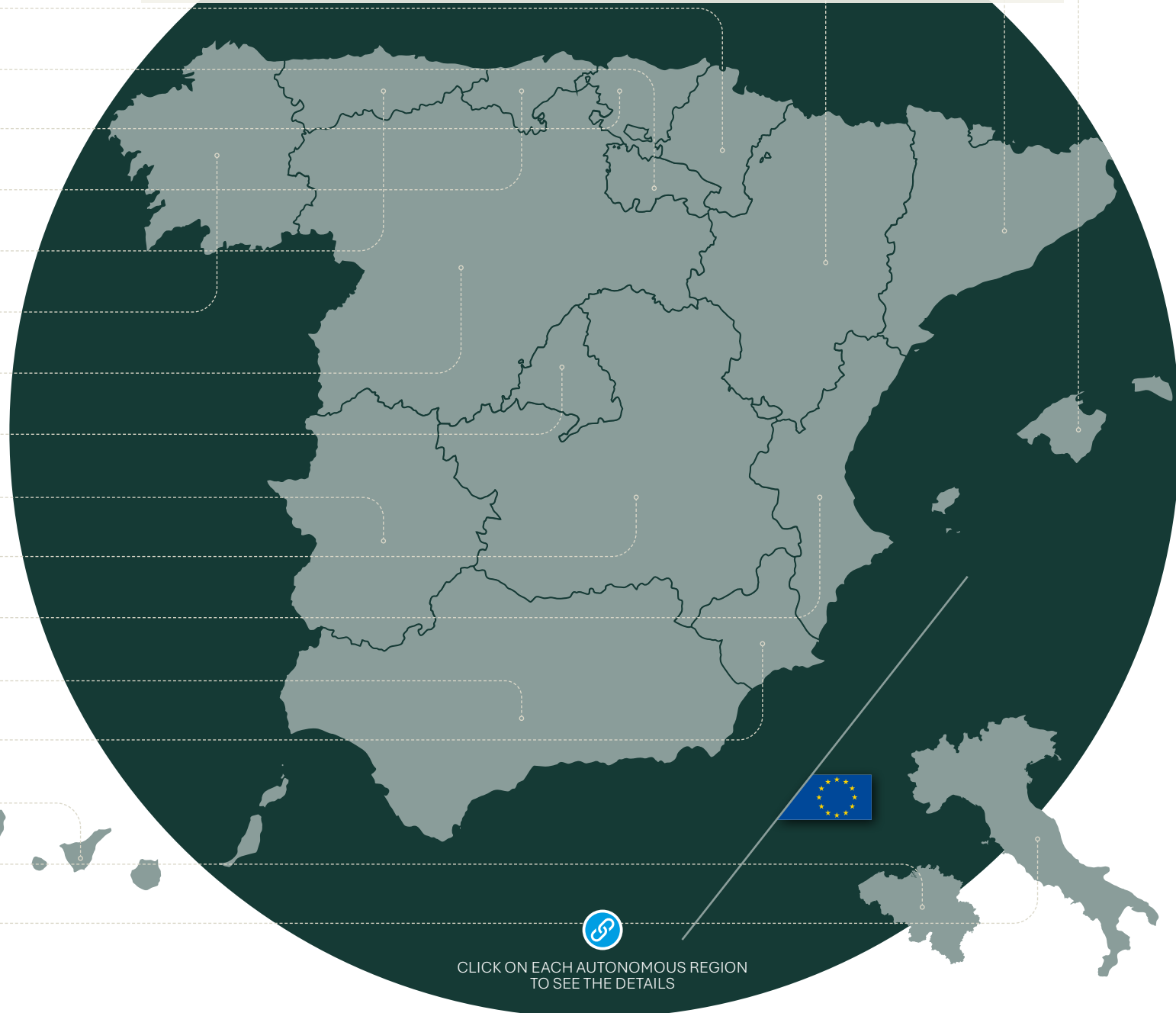
● Oceanographic Centres IEO

● Territorial Units IGME

● Delegations

● Service Integration Centres

● Specialised Technical Units



CLICK ON EACH AUTONOMOUS REGION
TO SEE THE DETAILS



32 collaborative research structures contribute to personnel training, the promotion of public–private collaboration, and the ability to advise companies and administrations.

17 Interdisciplinary Thematic Platforms (PTIs). Grouped into 4 Thematic Axes

Energy, Industrial, and Materials Transition

- PTI+ TRANSENER.
- PTI+ SUSPLAST.
- PTI FAB3D.
- PTI SosEcoCir.

Ecosystems, Biodiversity, and Sustainability of Natural Resources

- PTI+ SUSTAINABLE OCEANS.
- PTI AGRIAMBIO.
- PTI GREEN HORIZON.
- PTI SOILBIO.

Health, Wellbeing, and Food Systems

- PTI+ GLOBAL HEALTH.
- PTI+ NEUROAGING.
- PTI FOOD ALLERGY.
- PTI AGRO4FOOD.

Digital Transformation, Society, and Emerging Technology

- PTI+ QTEP.
- PTI+ CLIMATE.
- PTI PAIS.
- PTI DIGITAL SCIENCE.
- PTI MOBILITY 2030.

15 CSIC Conexiones / CSIC Hubs

- LIFE Connection (LifeHub).
- ARTIFICIAL INTELLIGENCE Connection (AIHUB).
- CANCER Connection.
- NANOMEDICINE Connection.
- ARCHAEOLOGY Connection.

- GEOSCIENCES FOR A SUSTAINABLE PLANET Connection.
- BCB Connection.
- WHEAT Connection.
- GENOME Connection.
- PHOTOCATALYSIS Connection.

- GENETIC RESOURCES Connection (REGEN).
- CSIC POLAR Connection.
- MICROBIOME Connection.
- METABOLIC DISEASES Connection (COMETA).
- ANTIMICROBIAL RESISTANCE Connection (AMR).

Large research infrastructures NATIONAL

Spanish Oceanographic Fleet CSIC (FLOTA)

The first Antarctic campaign of the oceanographic vessel *Odón de Buen* was successfully completed, confirming its capacity for research in extreme environments. [Link to the news.](#)



Image of the three ships belonging to the CSIC that coincided for the first time in Antarctica: *R/V Hespérides*, *R/V Odón de Buen*, and *R/V Sarmiento de Gamboa*.

First deep dive of the new Hugin AUV that successfully reached 1,000 m. [Link to the news.](#)

Development of the Integrated Platform to manage activities of the Spanish Antarctic campaigns. Created by the UTM, its scalable design will allow it to add functions and strengthen the Spanish polar system.

Balearic Island Coastal Observation System (SOCIB)

Promotion of regional prototypes of Digital Twins of the Ocean in the Balearic Sea. They integrate real-time ocean observation, advanced modelling, and interoperable data services to support evidence-based decision-making. Tools aimed at coastal management, climate change adaptation, and the reduction of natural risks.

Integrated Infrastructure for the production and characterisation of nanomaterials, biomaterials, and systems in biomedicine (NANBIOSIS)

Celebration of the NANBIOSIS Conference, a scientific event where scientific and technical staff (60 people) from its units shared their expertise and laid the foundations for implementing new, more specialised services for the scientific community in biomedical research. [Link to the news.](#)

Bluefin tuna farming infrastructure (ICAR)

For the first time, estimation of elements of respiratory metabolism and exercise performance in juvenile Atlantic bluefin tuna (*Thunnus thynnus*) weighing about 600 g using a metabolic tunnel. Reference: *J Exp Biol* (2026) 229 (4): jeb250696.

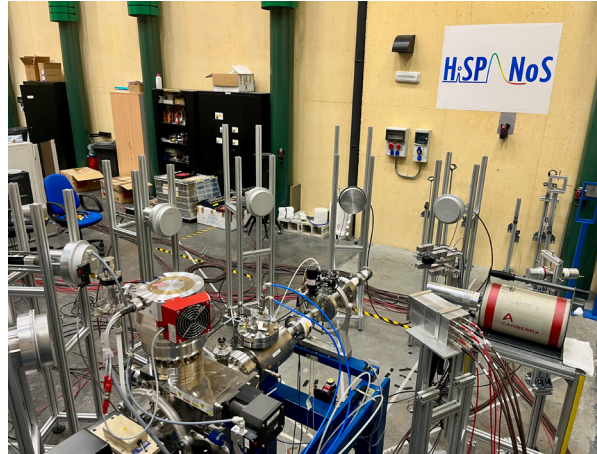


Juvenile bluefin tuna under study.

National Accelerator Centre (CNA)

Study, for the first time, of neutron activation to contribute to improvements in nuclear technology. [Link to the study.](#)

Researchers from the CNA and CERN at the HiSPANoS facility measure, for the first time, the Maxwellian Averaged Cross Section (MACS) of Chromium-50, identified by the IAEA as a priority for the advancement of nuclear fission.



*HiSPANoS Installation
at the National Accelerator Centre.*

Doñana Biological Reserve (ICTS-Doñana)

Presentation of the Report "State of Biodiversity in Doñana," where the almost certain extinction of species common in other times has been documented.

Inter-ministerial agreement between the MITERD and the MICIU on the financing of environmental and biodiversity scientific monitoring, coordinated by the EBD through the ICTS-DOÑANA, to guarantee funding and public accessibility to environmental data.



Hydrometeorological station of the ICTS-Doñana in the Doñana marsh.

Galician Supercomputing Centre (CESGA)

CESGA manages unique R+D+i infrastructures that are part of the ICTS-RES, such as the FinisTerra Supercomputer and the QMIO Quantum Computer. In 2025, the EuroHPC-JU accepted a proposal to host an AI Factory specialised in OneHealth and co-led by CSIC and CESGA.

Calar Alto Observatory (CAHA)

They obtained the first scientific observations from two new wide-field cameras that led to the discovery of comet P/2025 W3 (Kresken):

[Link to the news.](#)

Manuel Rico Nuclear Magnetic Resonance Laboratory (LMR)

The first determination of a protein structure by solid-state NMR in Spain; a scientific milestone of great relevance.

The incorporation of the LMR infrastructure into Instruct-ERIC has brought significant international recognition and has strengthened the centre's visibility within the European scientific community.

Integrated clean room for micro and nanofabrication (MICRONANOFABS)

Acquisition of new machinery under the *PERTE Chip* project and receipt of the first equipment. In this context, the IMB-CNM clean room is a strategic asset within the Spanish semiconductor ecosystem.



New scanning electron microscope acquired with PERTE funds.

Animal Health Research Centre (CISA)

They became a member of the Scientific Advisory Committee for the coordination and scientific/technical evaluation of the national response to African swine fever, created by the Ministry of Agriculture, Fisheries, and Food.

Unique scientific and technical infrastructures (ICTS)

1. Doñana Biological Reserve (RBD): <https://icts-donana.csic.es/>.
2. Spanish Oceanographic Fleet (FLOTA): <https://www.ieo.es/es/flota> <http://www.utm.csic.es/es>.
3. Spanish Antarctic Base (BAE): <http://www.utm.csic.es/es>.
4. Bluefin Tuna Farming Infrastructure (ICAR): <http://icar.ieo.es/>.
5. High biological security laboratory of the Animal Health Research Centre (CISA): <http://www.rlasb.es/>.
6. Balearic Islands Coastal Observation System (SOCIB): <https://www.socib.es/>.
7. Calar Alto Astronomical Observatory (CAHA): <http://www.caha.es/>.
8. National Accelerator Centre (CNA) <https://cna.us.es/index.php/es/>.
9. Integrated Infrastructure for the Production and Characterisation of Nanomaterials, Biomaterials, and Systems in Biomedicine (NANBIOSIS): <https://www.nanbiosis.es/>.
10. Integrated Micro and Nanofabrication Clean Room (MICRONANOFABS): <https://micronanofabs.org/>.
11. Manuel Rico Nuclear Magnetic Resonance Laboratory (LMR): <https://lmr.csic.es/en/>.
12. Galician Supercomputing Centre (CESGA): <https://www.cesga.es/>.

Large research infrastructures INTERNATIONAL

Two European infrastructures in which the CSIC participates achieve ERIC status.

- *Cherenkov Telescope Array Observatory (CTAO)*, dedicated to the study of the universe at high energies.
- *European Research Infrastructure for Heritage Science (ERiHS)*, dedicated to research in cultural heritage.

Spain is accepted as an Observer in [INFRAFRONTIER-ERIC](#), a European reference infrastructure in animal models and phenotyping services.

European Social Survey: incorporation of the CSIC into the Core Scientific Team and the analysis of the impact of the infrastructure.

The proposal of the Institute of Public Policies was selected to conduct the **study of the impact of the ESFRI European Social Survey (ESS)** infrastructure, dedicated to the comparative study of attitudes, values, and social behaviours in Europe. Dr Laura Morales, Dr Zaida Chinchilla, and Dr Marta Fraile have become part of the infrastructure's Core Scientific Team, a group that provides support to the infrastructure's director and leads various ESS activities.

The CSIC's important participation in the **Big Science Industry Forum Spain 2025 (BSIFS2025)**, the first forum of the Science Industry in Spain organised by CDTI, INDUCIENCIA, and INEUSTAR, to present its results to industry.

II Meeting on Large Research Infrastructures of the CSIC, held at the headquarters, and attended by a wide audience.



Family photo of the II Meeting on Large Research Infrastructures of the CSIC.

CSIC PARTICIPATION IN ESFRI (European Strategy Forum on Research Infrastructures) INITIATIVES

Formal participation **and leadership** (CSIC is the coordinator of the national node):

1. Distributed System of Scientific Collections (**DiSSCo**): <https://www.dissco.eu/>
<https://dissco-spain.es/>.
2. Integrated European Long-Term Ecosystem (**eLTER**): <https://www.elter-ri.eu/>.
3. European Plate Observing System (**EPOS**): <https://www.epos-eu.org/>.
4. European Research Infrastructure for Heritage Science (**E-RIHS**): <https://www.e-rihs.eu/> <http://www.e-rihs.es/>.
5. European Synchrotron Radiation (**ESRF-SpLine**): <https://www.esrf.fr/UsersAndScience/Experiments/CRG/BM25>.
6. European Industrial Biotechnology Innovation and Synthetic Biology Accelerator (**EU-IBISBA**): <https://ibisba.eu/>.
7. Institut Max von Laue - Paul Langevin (**ILL**): <https://www.ill.eu/>.
8. European Research Infrastructure for the generation, phenotyping, archiving and distribution of mouse disease models (**INFRAFRONTIER**): <http://www.infracfrontier.eu/>.
9. Integrated Structural Biology Infrastructure (**INSTRUCT**): <https://instruct-eric.org/>.
10. Square Kilometre Array (**SKAO**): <https://www.skao.int/>.

CSIC's participation in ESFRI initiatives it does not lead:

Formal:

11. Aerosols, Clouds and Trace gases Research Infrastructure (**ACTRIS**): <https://www.actris.eu/>
<https://www.actris.es/>.
12. Common Language Resources and Technology Infrastructure (**CLARIN**): <https://www.clarin.eu/>
<https://www.clariah.es/es/home>.
13. Cherenkov Telescope Array (**CTA**): <https://www.cta-observatory.org/>.
14. Digital Research Infrastructure for the Arts and Humanities (**DARIAH**): <https://www.dariah.eu/>.
15. A distributed infrastructure for life-science information (**ELIXIR**): <https://elixir-europe.org/>.
16. Extremely Large Telescope (**ELT**): <https://elt.eso.org/>.
17. European Solar Telescope (**EST**): <https://www.est-east.eu/>.
18. Einstein Telescope (**ET**): <https://www.et-gw.eu/>.
19. European Infrastructure of Open Screening Platforms for Chemical Biology (**EU-OPENSREEN**): <https://www.eu-openscreen.eu/index.html>
<https://www.es-openscreen.com/>.
20. European contribution to the international Argo Programme (**EURO-ARGO**): <https://www.euro-argo.eu/>
<https://www.oceanografia.es/argo/>.
21. European Research Infrastructure for Imaging Technologies in Biological and Biomedical Sciences (**EUROBIOIMAGING**): <https://www.eurobioimaging.eu/>.

22. Facility for Antiproton and Ion Research (**FAIR**): <https://fair-center.de/>.
23. High-Luminosity Large Hadron Collider (**HL-LHC**): <https://home.cern/science/accelerators/hilumi-lhc/>.
24. The KM3 Neutrino Telescope 2.0 (**KM3NeT 2.0**): <https://www.km3net.org/>.
25. Open scholarly communication in the European Research Area for Social Sciences and Humanities (**OPERAS**): <https://operas-eu.org/>.

Informal:

26. Analysis and Experimentation on Ecosystems (**ANAEE**): <https://www.anaee.eu/>.
27. Research Infrastructure for EnvIRonmental Exposure assessment in Europe (**EIRENE**): <https://eirene.eu/>.
28. European Social Survey (**ESS**): <https://www.europeansocialsurvey.org/>.
29. European X-Ray Free-Electron Laser Facility (**EU-XFEL**): <http://www.xfel.eu/>.
30. The Generations and Gender Programme (**GGP**): <https://www.ggp-i.org/>.
31. Integrated Carbon Observation System (**ICOS**): <https://www.icos-cp.eu/about/organisation-governance/icos-eric>.
32. e-Science and Technology European Infrastructure for Biodiversity and Ecosystem Research (**LifeWatch**): <https://www.lifewatch.eu/>.

Cross-cutting structures: Equality

The CSIC has **two internal bodies** to implement the equality strategy and promote the inclusion of the gender perspective as a cross-cutting category in science.

Comisión Delegada de Igualdad (CDI)



Diagnoses and proposes actions in the field of equality **that affect all CSIC staff members.**



Studies the factors hindering the entry and development of **women's research careers at the CSIC** and proposes actions to eliminate existing barriers.



Milestones in gender and equality activity at the CSIC

The CSIC has been awarded the **EU Award for Gender Equality Champions**, the highest European recognition for the implementation of gender equality within the framework of the new European Research Area. At the headquarters of the European Commission, the president of the CSIC received this recognition from Ekaterina Zaharieva, Commissioner for Science and Innovation. The award recognises the institution's commitment, for more than twenty years, to implementing equality plans and policies that guarantee the participation of women in excellent and equitable science.



Presentation of the EU Award for Gender Equality Champions at the European Commission, Brussels.

Publication of the **III Evaluation of the III Plan for Equality between Women and Men in the CSIC**, in which the degree of achievement and compliance with objectives is reviewed.



The number of **ICU Equality Committees (ECs)** created continues to grow, reaching 92% of the total number of ICUs. They are charged with implementing the measures of the Equality Plan.

VIII Edition of the **"CSIC Gender Equality Accreditation Badge"** awarded to the **Institute of Carbochemistry**, with second prizes to the Eduardo Torroja Institute of Construction Sciences, as well as to the Geological and Mining Institute of Spain.



Presentation of the VIII CSIC Equality Badge.

V Meeting of Equality Committees of the CSIC took place at the Eduardo Torroja Institute of Construction Sciences. Relevant topics such as prevention and intervention in case of sexual harassment, recognition of the work of ECs, intersectionality, and the inclusion of the gender perspective in research were discussed.



V Meeting of the Equality Committees of the CSIC.

Publication of the **Women Researchers Report (IMI) 2026** with disaggregated information and data on the composition of the CSIC's research staff and their research and training activity. Highlights:

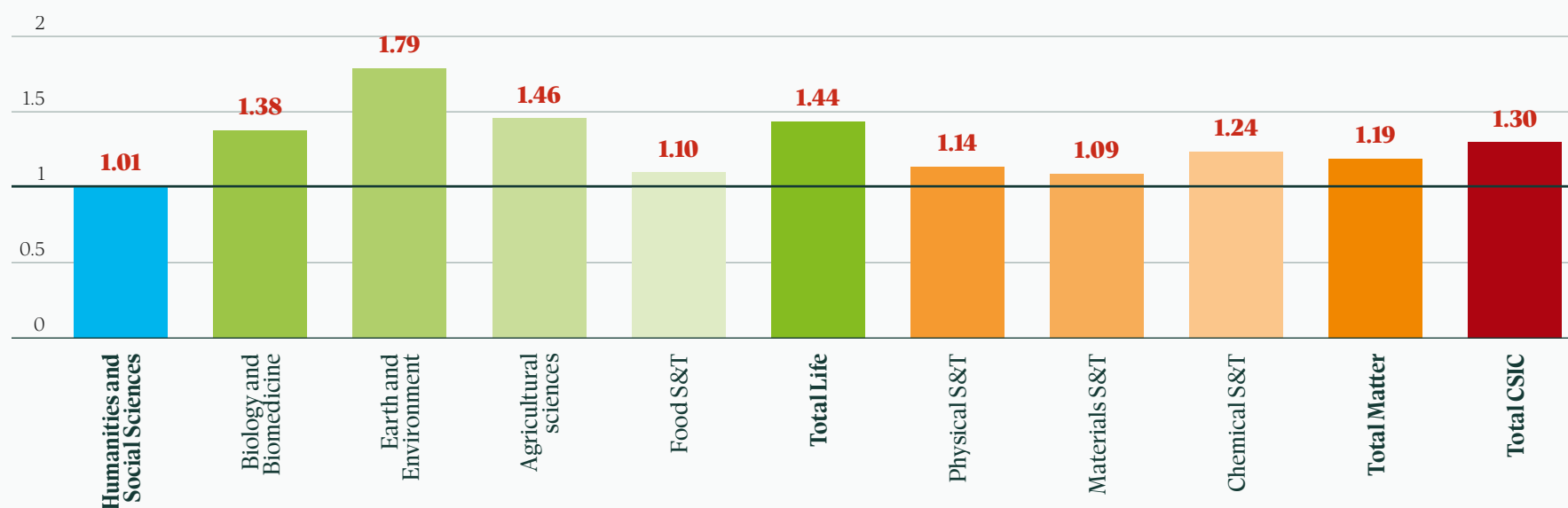
- The main novelty is the **notable decrease in the Glass Ceiling Index (GCI)** both in the CSIC as a whole and in all its sub-areas, being **particularly significant in the Earth and Environment sub-area**, which has traditionally registered the highest GCI values. The global GCI fell to 1.30, down from 1.44 the previous year, while in Land and Environment, it dropped to 1.79, down from 2.57 in 2024.
- The upward trend in the percentage of women directors continues, standing at 39.7%, compared with 31.9% the previous year.
- Slight improvement in the proportion of Research Professors, which reaches 29.8%, compared with the 26.7% recorded in 2024.

The CSIC commemorates, every February 11, the **International Day of Women and Girls in Science** by organising more than 200 activities such as open days, talks, colloquia, workshops, theatre, exhibitions, or actions on social networks to break stereotypes and promote scientific vocations.



Glass Ceiling Index

2025



Ethics and scientific integrity

Ethical evaluation of research

829 Evaluations carried out

578

Applications received

224 animal experimentation projects

354 projects with bioethical and/or biosafety implications

549 evaluations of research activities:

56 evaluations of statistical methods and calculations

193 with the participation of human beings, their samples, and data

188 with GMO

196 with biological risk agents

Scientific integrity conflicts

Management of **22** conflicts

Sustainability



Featured actions

+ 850 sustainability actions
throughout 2025.

Launch of the **Sustainable Conversations** initiative, which fosters collaboration between CSIC centres, to publicise the best sustainable practices. The first conversation, "The (UN)sustainable footprint of Artificial Intelligence", was promoted by IDAEA in collaboration with I2SysBio and the SGAi.

**1st call for the "CSIC Sustainability Badge":
Winners.**

- 1^o. **IDAEA** for having developed more than 70 actions aligned with the CSIC Sustainability Plan (PSCSIC) and having a Sustainability Committee since 2020.
- 2^o. **I2SysBio** for the effective implementation of PSCSIC's lines of action, spanning multiple areas—buildings, ICT, mobility, accessibility, food, recycling, and awareness-raising—and incorporating monitoring and evaluation mechanisms.
- 3^o. **GEO3BCN** for its commitment to anticipating and expanding sustainability measures, highlighting initiatives related to energy efficiency, sustainable mobility, internal training, and staff awareness.



ICMAB, 1st runner-up for effectively implementing PSCSIC's lines of action by integrating them into its own approach, which combines actions, impact quantification, and awareness-raising.

IBMB, 2nd runner-up for integrating sustainability as a priority and explicitly linking it to the Sustainable Development Goals, thereby reinforcing its institutional and international dimensions.

Sustainability Committees

94
existing (76% of ICUs and CNs)

54
created in 2025 (43%)

Institutional relations and scientific collaboration



Institutional relations and scientific collaboration

NATIONAL

Active agreements **1,493**

364
New agreements



EDUCATIONAL COLLABORATION	101
R+D	82
SCIENTIFIC COLLABORATION	74
TRAINING	61
SCIENTIFIC CULTURE	14
JOINT INSTITUTIONS (I3M,IBBTec,BE,IBFG,CIC,IGM*,IBMCP,INGENIO,IRI,ITQ)	10
EXPERT ASSESSMENT	9
USE OF INSTALLATIONS AND EQUIPMENT	9
STAFF	3

** IGM: Protocol act of signing the Agreement with the University of León to regulate the operation of the Institute of Mountain Livestock (IGM), joint CSIC-ULE.*

Agreement between the Barcelona Supercomputing Centre and participating entities, including the CSIC, in the IMPaCT-DATA 2 project. Its purpose is to establish the scientific-technical collaboration of all Parties for the joint implementation of the Data Science Programme **"Data Infrastructure for Personalised Medicine"** (IMPACT-Data) relating to the Programme for Precision Medicine Infrastructure Associated with Science and Technology (IMPACT). Total budget: €2,982,045.

Agreement with the Ramón Areces Foundation to develop the project **"New perspectives in the study of changes in ocean circulation, using environmental radioactive tracers (NAUTILICA)"** within the framework of the Foundation's 2024 Return of Talent Program. Total budget: €1,250,000.

Agreement with the University of Zaragoza, the Health Research Institute Foundation of Aragon, AITIIP Technology Centre, and BEONCHIP S.L. to establish the operation of the **Organ On Chip Aragon Network (OoCA)** as a virtual network of innovation in Organ On Chip technologies, allowing to address border problems between various fields of Biomedicine and Agrifood, difficult to solve independently.

Research institutes

49

Joint reserach institutes

The CSIC shares ownership with **44** entities and institutions

24 **Public universities**, highlighting, by number of institutes, the University of Seville (6), The Autonomous University of Madrid (5), Politechnic University of Valencia (4) and Valencia (3).

9 **Autonomous Governments** participate in its financing, highlighting, by number of institutes, the Junta de Andalucía, the Generalitat de Catalunya, and the Principality of Asturias

11 **Others.**

158

Active R+D+i units associated with the CSIC

19

Created

34

Renewed

72 External entities (65% universities) are associated with the CSIC through **65** Research institutes

Participation in

368

Entities and bodies

FOUNDATIONS	54
CONSORTIA	14
COMPANIES + EIGs	6

ASSOCIATIONS	48
PUBLIC BODIES	20
ENTITIES WITHOUT LEGAL PERSONALITY	226

In 2025, there were **26** new affiliations and **14** dissafiliations



Institutional relations and scientific collaboration

INTERNATIONAL

The future of science in the European Union

The President of the CSIC led, as coordinator of the G6 of European science during 2025, the representation of member institution presidents at the event held at the European Parliament *'Building the Future of Europe: Research and innovation at the heart of European leadership'*. Organised by the European Parliament's Panel for the Future of Science and Technology (STOA), the meeting was attended by the President of the European Commission, Ursula von der Leyen. [Link to the news.](#)



The president of the CSIC, Eloísa del Pino, poses with the president of the European Commission, Ursula von der Leyen, and the other leaders of the G6 scientific institutions after the event held at the European Parliament.

The CSIC presented the EstrategIA CSIC 2025–2026 AI Strategy for artificial intelligence at the meeting of the Research7+ Group, of which the main public research bodies of the G7 member countries, Spain, and the European Union are members. Held in Ottawa, Canada, the meeting aimed to establish sustained collaboration among its members on AI through specific programmes. [Link to the news.](#)



The president of the CSIC, Eloísa del Pino, in the family photo from the Research7+ group meeting in Canada.

The CSIC Delegation in Catalonia hosted the G6 science summit for a sovereign EU in AI, where the foundations of EU sovereignty in the development of more ethical, fair, and committed AI platforms were discussed and established. [Link to the news.](#)

Joint statement by the members of the G6 for science with recommendations for the preparation of the next European Framework Programme. [Link to the news.](#)

The CSIC in the European Union

Re-election of the Vice-President for International Relations, Mr Javier Moreno Fuentes, as Vice-President of Science Europe at the 2025 General Assembly held in Oslo (Norway). [Link to the news.](#)

The CSIC, leader in European projects

First Spanish institution in funded projects and third at the European level in the *Marie Skłodowska Curie Postdoctoral Fellowships* (MSCA-PF) in 2024. With nearly 9.8 million euros and 43 projects, this MSCA-PF call has been the most successful in CSIC history so far. [Link to the news.](#)

First Spanish organisation to obtain Starting Grant projects from the European Research Council in the 2024 call. [Link to the news.](#)

INORMS Madrid 2025

CSIC's participation in the organising team of the INORMS Madrid 2025 Congress, as a member of the European Association of Research Managers and Administrators (EARMA) and the International Network of Research Management Societies (INORMS).

10th Meeting of Internationalisation Technical Staff of the CSIC



155 participants from institutes and delegations at the CSIC headquarters, 29th and 30th of September 2025.

Cooperation and internationalisation

The number of bilateral aid programmes doubles by 2025. Call, within the framework of signing collaboration agreements with foreign scientific institutions, for the first edition of actions for research staff mobility (researchers, technicians, and managers) assigned to the CSIC with the following entities:

- National Research Council, Italy.
- Fund for Scientific Research, Belgium.
- National Council for Scientific and Technological Development, Brazil.
- National University of Colombia, Colombia.
- Japan Society for the Promotion of Science, Japón.
- Chinese Academy of Sciences, China.
- National Centre for Scientific and Technical Research, Morocco.

Successful participation in the "SAFE Project EU" call contributing to the support of research staff at risk through its own SAFE-CSIC programme.

Increase in the number of I-Coop and I-Link grants awarded in 2025 (10 additional ones in each of these programmes).

Science diplomacy

Signing of a Memorandum of Understanding with the African Academy of Sciences in the context of the high-level meeting of the agencies participating in the African Research Initiative for Scientific Excellence (ARISE) in Ghana. The programme, funded mainly by the EU, is implemented by the African Academy of Sciences and facilitates the transformation of Africa into a continent based on science and innovation, as foreseen in the AU-CTI Agenda (STISA 2024).

[Link to STISA 2024.](#)



The Deputy Vice-President for Internationalisation and Cooperation, Isabel Díaz Carretero, during the ARISE event held in Ghana.

Participation in the II European Conference on Science Diplomacy, held in December in Copenhagen.

Organisation of the high-level event of scientific collaboration in the field of One Health together with the Chinese Embassy in Spain and the MICIU, coinciding with the official visit of the Vice Minister of the Ministry of Science and Technology of China.

Research safety, in alignment with European policies

Consolidation of an internal risk assessment system for international agreements and conventions, applying the detection → evaluation → meeting → mitigation flow.

Specialised advice on sensitive agreements, with analysis of the scientific area, country, social institution, and centre involved, as well as mitigation recommendations on a case-by-case basis.

Strengthening participation in European Research Security forums (G6, EARMA, Science Europe), increasing alignment with EU guidelines.

The CSIC joins four international scientific entities



IAMI – Innovative Advanced Materials Initiative

An international non-profit association that leads the European partnership IAM4EU, aimed at accelerating the market introduction of sustainable advanced materials. It articulates a pan-European R+D ecosystem that integrates industry, research centres, and institutional actors to promote European competitiveness and technological sovereignty in advanced materials.



SAR – Scholars at Risk

Network dedicated to protecting academics at risk and defending academic freedom around the world. It organises temporary stays, facilitates the continuity of academic work in safe environments, while developing educational and international advocacy activities.



GENMEDA – Network of Mediterranean Plant Conservation Centres

A network integrating seed banks and conservation centres for the genetic resources of Mediterranean flora across 14 countries. It promotes the conservation of Mediterranean biodiversity through technical cooperation, the creation of genetic collections, the exchange of knowledge, and the joint planning of scientific initiatives.



ESAAF – European Science Alliance for Agriculture and Food

An alliance that brings together leading institutions in agricultural and life sciences to strengthen the sustainability, resilience, and competitiveness of the European agrifood system. It provides independent scientific advice to European policy debates and facilitates the launch of new research initiatives in this area.



CSIC 2025

A year in figures

Human Resources

By functional grouping



Total Staff

17,471

8,871

8,600

Researcher

5,457

Researcher
in training*

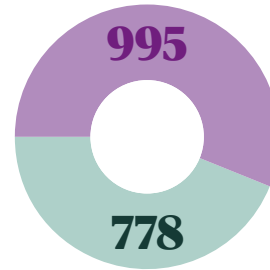
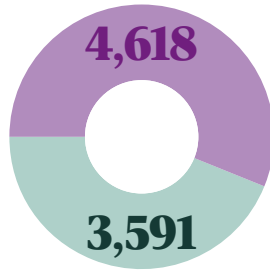
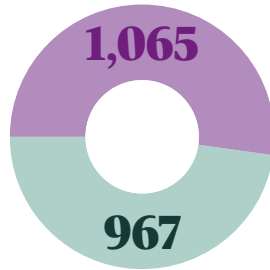
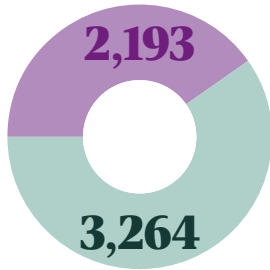
2,032

Tecnician

8,209

Management /
Admin. / Services

1,773



* Predoctorals

Staff by Autonomous Region

	Researcher	Researcher in training	Technician	Management / Admin. / Services	Total
ANDALUCÍA	817	290	1,354	275	2,736
ARAGÓN	218	92	267	54	631
CANARIAS	64	16	120	24	224
CANTABRIA	79	19	139	16	253
CASTILLA Y LEÓN	93	42	165	37	337
CASTILLA-LA MANCHA	16	2	36	7	61
CATALUÑA	895	358	1,082	136	2,471
COMUNIDAD DE MADRID	2,154	777	3,271	938	7,140
COMUNIDAD FORAL DE NAVARRA	11	6	33	5	55
COMUNITAT VALENCIANA	496	271	689	104	1,560
EXTREMADURA	10	3	8	0	21
GALICIA	193	37	419	72	721
ILLES BALEARS	122	41	142	19	324
LA RIOJA	17	6	34	4	61
PAÍS VASCO	40	5	24	7	76
PRINCIPADO DE ASTURIAS	123	38	186	36	383
REGIÓN DE MURCIA	100	29	239	36	404
ROMA	9	0	1	3	13

By Global Area



* The area assigned to research and research trainee staff is the staff area. Other staff members are assigned to the area of the ICU to which they are attached.

Central
Services**
1,092

Technician
458
Management / Admin. / Services
634

** Includes delegations/REBIS.

Projects and actions NATIONAL

Active* projects and actions

6,308

*Including those approved and completed in 2025.

Total Funding

€1,381,622,115

Annuity 2025

€269,932,758

Projects and actions
Approved

1,802

Total Funding

€254,558,881

Annuity 2025

€167,565,982

Projects and actions
Completed

2,227

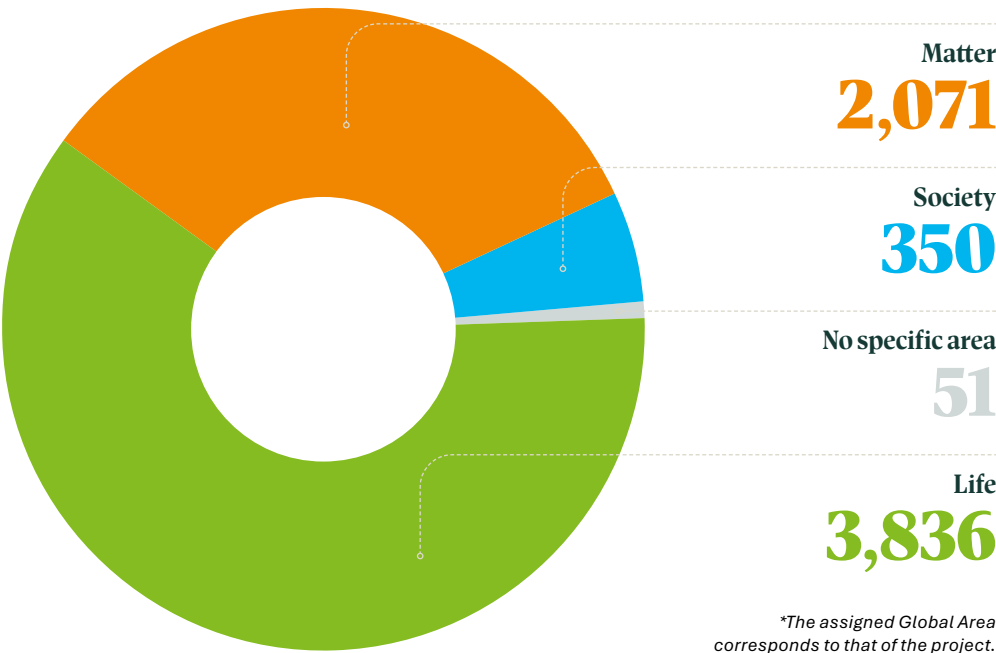
Total Funding

€340,936,924

Annuity 2025

€22,830,814

Distribution by Global Area*



Distribution by Autonomous Region

ANDALUCÍA	950	COMUNITAT VALENCIANA	593
ARAGÓN	270	EXTREMADURA	15
CANARIAS	73	GALICIA	277
CANTABRIA	94	ILLES BALEARS	110
CASTILLA-LA MANCHA	26	LA RIOJA	28
CASTILLA Y LEÓN	120	PAÍS VASCO	29
CATALUÑA	938	PRINCIPADO DE ASTURIAS	161
COM. FORAL DE NAVARRA	26	REGIÓN DE MURCIA	169
COMUNIDAD DE MADRID	2,429		

Projects and actions INTERNATIONAL

Active* projects

1,268

** Including those initiated and completed in 2025.*

Total Funding

€550,864,970

Projects Initiated

301

Total Funding

€118,709,746

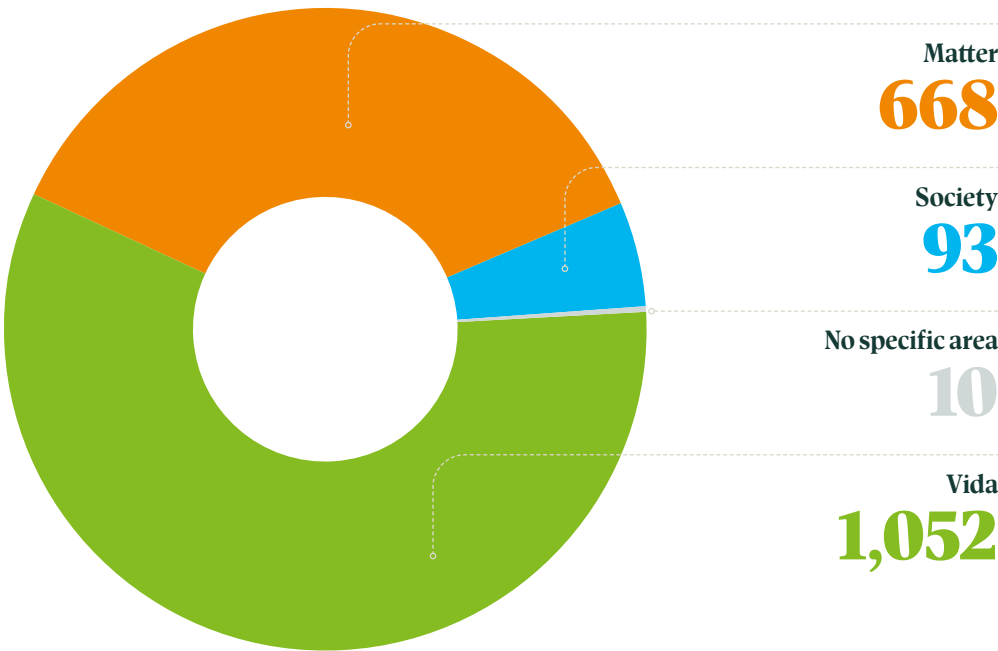
Projects Completed

282

Total Funding

€91,048,574

Distribution by Global Area*



**The data shown here reflects a thematic overlap in terms of area and autonomous community. Therefore, the sum of these will always be greater than the sum of the number of projects.*

Distribution by Autonomous Region

ANDALUCÍA	233
ARAGÓN	85
CANARIAS	23
CANTABRIA	23

CASTILLA Y LEÓN	18
CATALUÑA	417
COM. FORAL DE NAVARRA	2
COMUNIDAD DE MADRID	638

COMUNITAT VALENCIANA	166
EXTREMADURA	2
GALICIA	69
ILLES BALEARS	51

LA RIOJA	8
PAÍS VASCO	13
PRINCIPADO DE ASTURIAS	33
REGIÓN DE MURCIA	42

Scientific production



Distribution by Global Area

	Publications	Articles	Books	Books in WOS/Scopus	Book Chapters	Book Chapters en WOS/Scopus	Other types
SOCIETY	1,047	669	36	2	159	60	183
HUMANITIES	710	417	33	2	140	48	120
SOCIAL SCIENCES	340	254	3	-	19	12	64
LIFE	9,148	7,684	49	2	338	196	1,077
BIOLOGY AND BIOMEDICINE	2,598	2,062	6	-	84	67	446
EARTH AND ENVIRONMENT	4,010	3,500	35	1	123	55	352
AGRICULTURAL SCIENCES	2,052	1,731	8	-	83	45	230
FOOD S&T*	800	667	1	1	59	36	73
MATERIA	6,918	6,322	16	3	167	102	413
PHISICAL S&T*, MATHEMATICS, ROBOTICS AND COMPUTING	3,467	3,246	9	1	64	24	148
MATERIALS S&T*	2,084	1,889	3	2	46	32	146
CHEMICAL S&T*	1,532	1,340	5	1	61	48	126

*Science & Technology.

In the data reflected here there is a thematic overlap at two levels, at the area level and at the category level. Accordingly, the sum of them will always be greater than the sum of the number of documents. To avoid artificially inflating the data, the totals are always made taking into account the total number of documents (avoiding overlaps between aggregates).

Source: GesBIB / April 2026.



Distribution by Autonomous Region

	Publications	Articles	Books	Books in WOS/Scopus	Book Chapters	Book Chapters in WOS/Scopus	Other types
ANDALUCÍA	3,412	2,889	15	2	61	37	447
ARAGÓN	812	731	4	-	14	9	63
CANARIAS	152	124	1	-	10	6	17
CANTABRIA	315	291	-	-	1	-	23
CASTILLA - LA MANCHA	207	183	-	-	6	3	18
CASTILLA Y LEÓN	445	360	1	-	9	3	75
CATALUÑA	3,430	2,972	19	2	142	72	297
COMUNIDAD DE MADRID	5,882	5,021	54	3	307	166	500
COMUNIDAD FORAL DE NAVARRA	37	32	-	-	1	1	4
COMUNITAT VALENCIANA	1,792	1,558	4	1	49	31	181
EXTREMADURA	50	37	2	-	8	2	3
GALICIA	566	458	4	-	46	14	58
ILLES BALEARS	368	336	-	-	6	4	26
LA RIOJA	92	86	-	-	3	3	3
PAÍS VASCO	367	336	-	-	6	5	25
PRINCIPADO DE ASTURIAS	383	329	1	-	11	7	42
REGIÓN DE MURCIA	264	223	-	-	13	9	28

In the data presented here, there is thematic overlap at the level of the autonomous community. Therefore, the sum of these will always be greater than the sum of the number of documents.

Source: GesBIB / April 2026.

CoARA



Approval of the **CSIC CoARA Action Plan 2023-2027** and publication in Zenodo (open general-purpose repository developed under the European OpenAIRE program and operated by CERN).

Open access

36,388 records were created in the multidisciplinary open-access scientific repository, DIGITAL-CSIC. The deposit rate of CSIC output in the multidisciplinary open access scientific repository, DIGITAL.CSIC reached **97.97%**.

3,174 Articles financed in the Open Access Publishing Support Program (PROA).

Evaluation and impact of CSIC scientific publication

822,000 publications indexed in GesBIB.

80,000 authors with an ORCID identifier that enables the identification of the CSIC as an institution and the impact of its publications.

Excellence

EXCELENCIA
SEVERO
OCHOA

14
Centres

idæa^a | Institute for Environmental
Diagnostics and Water Studies

ICMAB
INSTITUT DE CIÈNCIA DE MATERIALS DE BARCELONA | Materials Science Institute
of Barcelona

ift | Institute of Theoretical Physics

CBM
Severo Ochoa
CSIC UAM | Severo Ochoa
Molecular Biology Centre

iata | Institute of Agrochemistry
and Food Technology

Centro Nacional de Biotecnología | National Biotechnology Centre

icmm
Instituto de Ciencia de Materiales de Madrid | Materials Science Institute
of Madrid*

Estación Biológica Doñana
CSIC | Doñana Biological Station*

ICMAT
INSTITUTO DE CIENCIAS MATEMÁTICAS | Institute of Mathematical Sciences

ICM | Institute of Marine Sciences

IAA
INSTITUTO DE ASTROFÍSICA DE ANDALUCÍA | Institute of Astrophysics
of Andalusia

in | Institute of Neurosciences

INMA
INSTITUTO DE NANOCIENCIA Y MATERIALES DE ARAGÓN | Institute of Nanoscience
and Materials of Aragon

IFIC
INSTITUT DE FÍSICA CORPUSCULAR | Institute of Corpuscular Physics

EXCELENCIA
MARÍA
DE MAEZTU

5
Centres

Institute of Space Sciences | Institute of Space Sciences

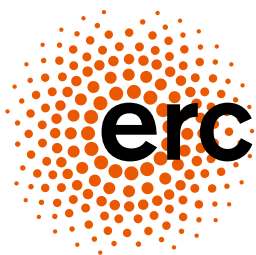
imedea
CSIC Universitat de Mallorca | Mediterranean Institute
for Advanced Studies

IFISC^{*} | Institute of Interdisciplinary
Physics and Complex Systems

cnm
Centro Nacional de Microelectrónica IMB | Barcelona Institute
of Microelectronics

Centro Andaluz de Biología del Desarrollo | Andalusian Centre
for Developmental Biology

*New accreditations.



25
Projects
initiated in 2025

Advanced Grant

BYGENEX

Ramón Massana Molera

INSTITUTE OF MARINE SCIENCES

Proof of Concept

ENCANT

Gerard Tobias Rossell

MATERIALS SCIENCE INSTITUTE
OF BARCELONA

DEEPSPACEPULSE

Nanda Rea

INSTITUTE OF SPACE SCIENCES

CO2CHAINS

Gonzalo Prieto González

INSTITUTE OF CHEMICAL TECHNOLOGY

NOSHAKE

Víctor Vilarrasa Riaño

MEDITERRANEAN INSTITUTE
FOR ADVANCED STUDIES

NEWTON

Ángel Goñi Moreno

NATIONAL BIOTECHNOLOGY CENTRE

Consolidator Grant

OPIMPOL

Joan Llull Cabrer

INSTITUTE OF ECONOMIC ANALYSIS

BIMETALGAS

Jesús Campos Manzano

INSTITUTE FOR CHEMICAL RESEARCH

EARLYFATE

Bárbara Pernaute Lomba

ANDALUSIAN CENTRE
FOR DEVELOPMENTAL BIOLOGY

CELLWISE

Irene Otero Muras

INSTITUTE OF INTEGRATIVE
SYSTEMS BIOLOGY

SEE

Jorge Miguel Alves Fernandes

INSTITUTE OF PUBLIC GOODS AND POLICIES

WILDHIST

David Pretel O'Sullivan

INSTITUTE OF HISTORY

CONSENT

Ignacio Jurado Nebreda

INSTITUTE OF PUBLIC GOODS AND POLICIES

Starting Grant

CHECMATE SENESCENCE

Carlos Anerillas Aljama

SEVERO OCHOA
MOLECULAR BIOLOGY CENTRE

FRESH-CARE

Marta Umbert Ceresuela

INSTITUTE OF MARINE SCIENCES

PTMTALK

Ana Cristina Vieitez Manrique

INSTITUTE OF FUNCTIONAL BIOLOGY
AND GENOMICS

THIRSTEE

Rafael Luque Ramírez

INSTITUTE OF ASTROPHYSICS OF ANDALUSIA

SELECSTEM

Laia Josa Cullere

INSTITUTE OF ADVANCED CHEMISTRY
OF CATALONIA

COLINA

Ander Simon Estevez

INSTITUTE OF CORPUSCULAR PHYSICS

ARAMAIZATION

Jonathan Valk

INSTITUTE FOR LANGUAGES AND CULTURES
OF THE MEDITERRANEAN AND THE NEAR EAST

MUT-SCALES

Marc De Manuel Montero

INSTITUTE OF EVOLUTIONARY BIOLOGY

NUQNET

Juan Miguel Nieves Pamplona

INSTITUTE OF CORPUSCULAR PHYSICS

Synergy Grant

SKIN2DTRONICS

Andrés Castellanos Gómez

MATERIALS SCIENCE INSTITUTE
OF MADRID

SMARTX

José María Benlloch Baviera

INSTITUTE OF INSTRUMENTATION
FOR MOLECULAR IMAGING

METRIQS

M. Mar García Hernández

MATERIALS SCIENCE INSTITUTE
OF MADRID



National Research Awards

IH
Ignacio
de La Torre Sainz
HUMANITIES

IMN/CNM
María Soledad
Martín González
KNOWLEDGE
TRANSFER

IMEDEA
Ana María
Traveset Vilagenés
NATURAL RESOURCES
SCIENCES



National Research Awards for Young People

María José
Martínez Pérez
PHISICAL, MATERIALS
AND EARTH SCIENCES

Jesús
Campos Manzano
CHEMICAL SCIENCE /
ORGANOMETALLIC
CHEMISTRY



52

Institutes began the path to Excellence
by obtaining the **ASPIRA-MaX** "Josefa Barba",
accreditation, with an individual endowment of €20,000

SOCIETY				
EEA	IAM	IEGD	IEGPS	IESA
IFS	ILC	ILC		
LIFE				
CABIMER	CIAL	CIDE	CISA	EEAD
EEZA	IACT-CSIC	IAS	IATS	IBB
IBMB	IBMCP	IBV	IC	ICA
ICMAN	ICTAN	IEO	IG	IGEO
IGM	IHSM	IIBB	IIM	IMIB
IPBLN	IPE	IPLA	IREC	IRNAS
MBG	MNCN	RJB		
MATTER				
CAB	CINN	I3M	ICP	ICV
IEM	IFCA	IFF	IHA	IPNA
ISQCH				

40

Institutes are implementing the Excellence Plan
by obtaining the **ASPIRA-MaX** "Sagrario Martínez-Carrera",
accreditation, with an endowment of up to €300,000

SOCIETY		
IH	INCIPIT	INGENIO
LIFE		
CEAB	CEBAS	CIB
EEZ	GEO3BCN	I2SYSBIO
IBBTEC	IBE	IBF
IBFG	IBGM	IBIS
IBMCC	IBVF	ICIFOR
ICVV	IDAB	IIBM
INIA	IRNASA	
MATTER		
CAR	CENIM	CFM
ICB	ICMM	ICMS
ICTP	IETCC	HQ
IMN-CNM	IMSE,CNM	INCAR
IO	IQF	IQM
IQOG	IRII	



Transfer and Innovation

PROTECTION

Priority patent applications

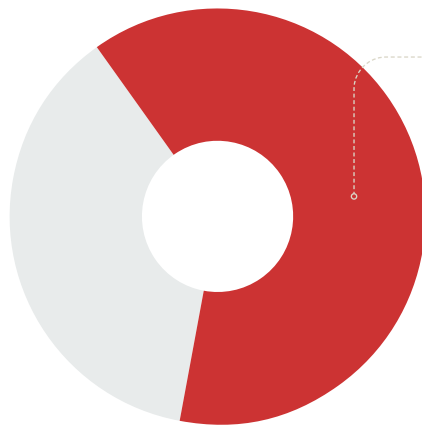
145

Other forms of protection

65

Total Assets Protected

210



Percentage of priority rights that are extended with PCT applications to the following year

63%

Portfolio of patent families in force*

972

*Only patents and utility models. Source: SICTI.

PROMOTION OF TECHNOLOGIES

Licensed Assets

89

Royalties from operating contracts (in thousands of €)

3,283.14

COLLABORATION

New contracts and agreements signed

2,064

Contracted funding (in thousands of €)

40,780

ENTREPRENEURSHIP

KBCs (Knowledge-Based Companies) created in the year

11



International Projection

Active agreements and alliances

423 active international agreements

537 CSIC alliances with entities from **75** countries



3rd
European Public
Research Institution

6th
World Public
Research Institution



North America



South America



Europe



Africa



Asia and Oceania



Other european and international initiatives

144 projects started in 2025 **€40.5M**

H2020/HE

157 Projects started in 2025
€78.23M

1,495 Proposals submitted

557 Active collaborative projects

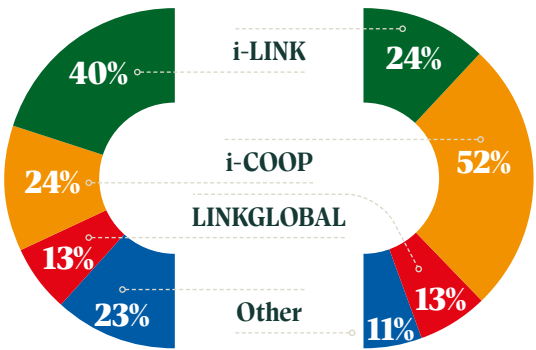
107 Active Postdoctoral Fellowships

91 Active individual ERC Grants

Mobility own calls

314 CSIC staff stays abroad

291 foreign stays at the CSIC



* Including INFRAS, BILATERALS and INTERCONNECTA stays.

Own and co-managed international programmes

539 Active actions

€2.7M Development cooperation funds invested

€6.2M Total investment in ACRI Grants

47% Percentage of publications with international collaboration



Advising Public Administrations

9,374 REPORTS
Produced by the National Centres as technical reference
and support services for public policies.

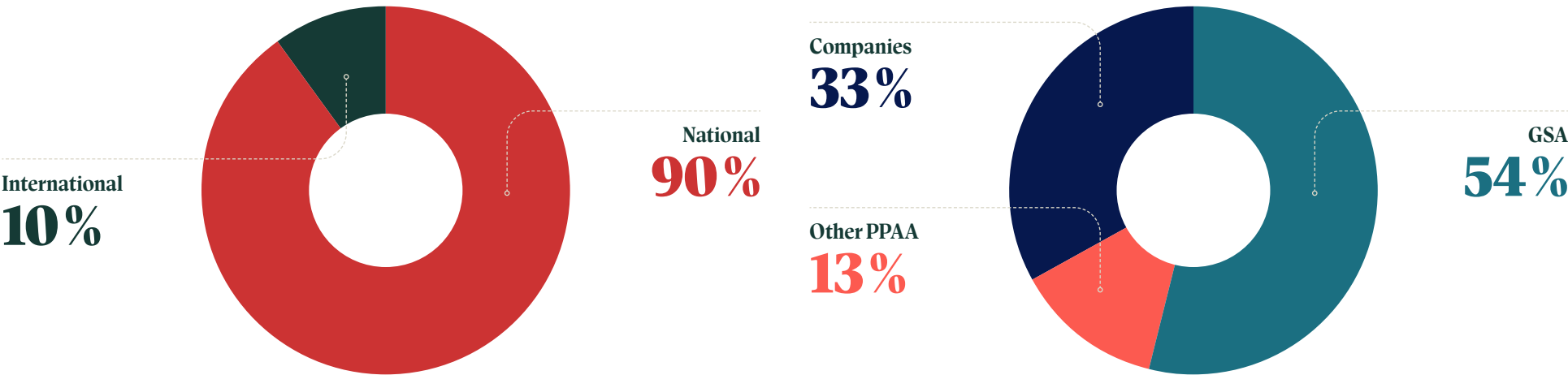


341

848

8,185

Classification by beneficiaries

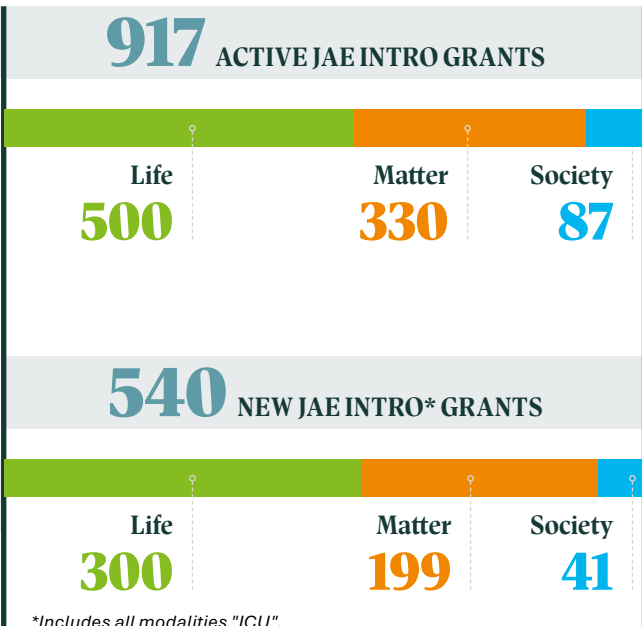
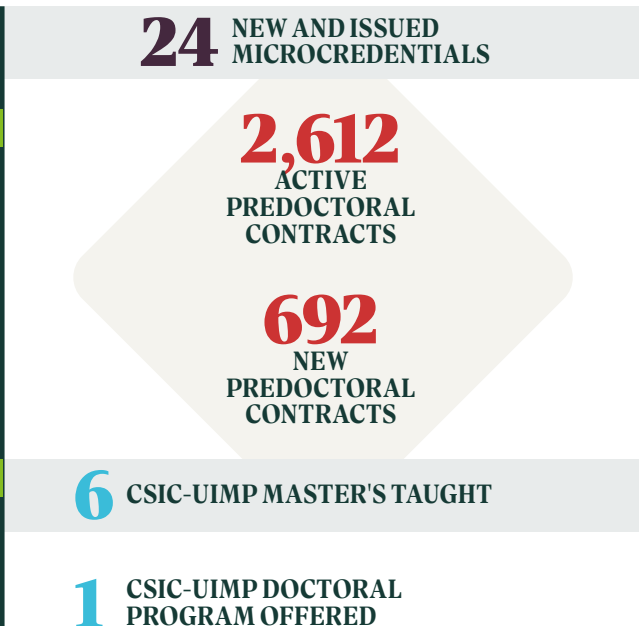
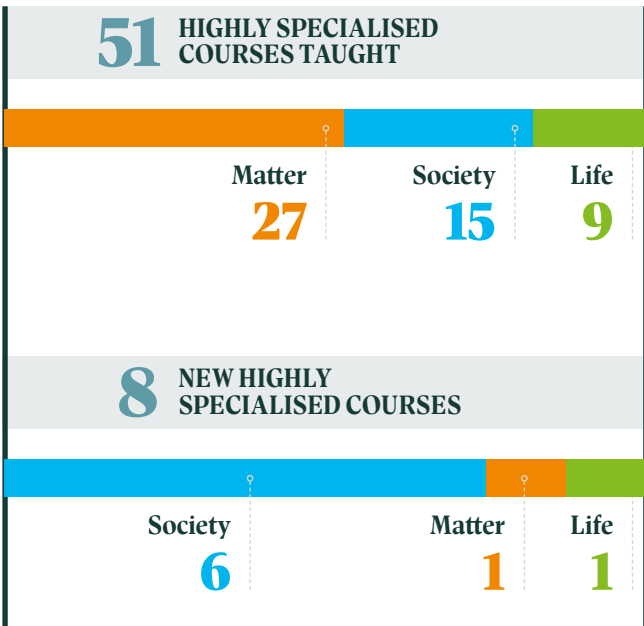
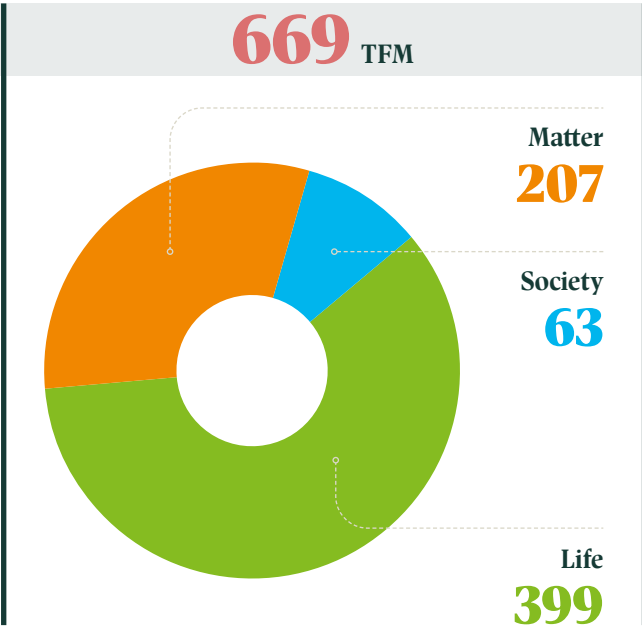
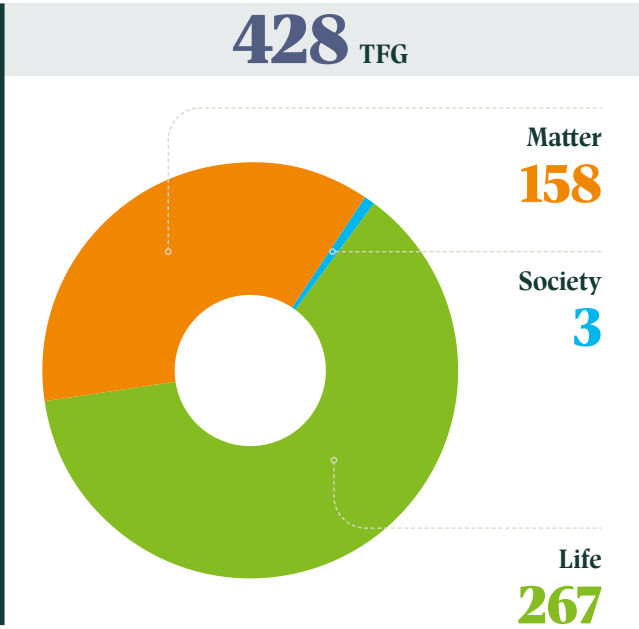
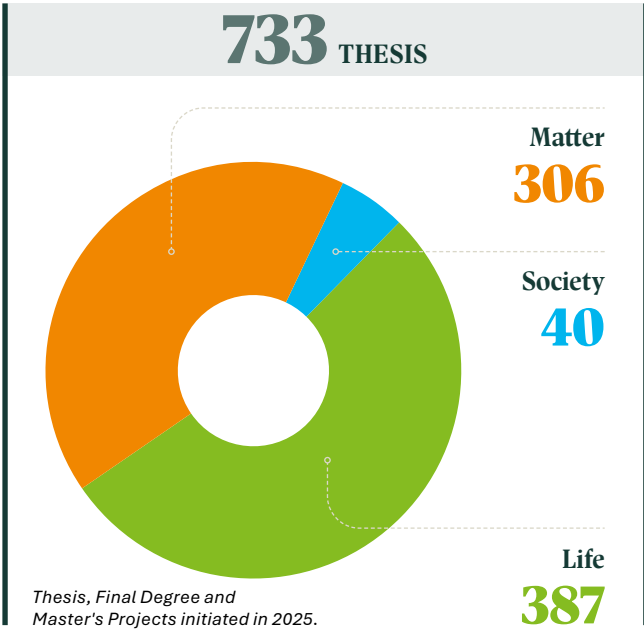


Main beneficiaries

Ministry for Ecological Transition and the Demographic Challenge.

Ministry of Agriculture, Fisheries, and Food.

Training of research staff



Scientific culture. Citizen science. CSIC Editorial

Scientific culture

20,375 science dissemination initiatives carried out by the institutes, centres, and institutional delegations of the CSIC.

15,433 face-to-face with **1,551,484** attendees:

2,625 conferences

3,765 guided tours

6,504 workshops

88 competitions of its own creation

213 exhibitions

4,942 non-face-to-face:

1,072 videos

24 mobile apps

336 science websites and blogs

Citizen science

+85 active citizen science projects in 2025

+40 CSIC institutes and centres involved

+130 projects developed since 2017

17 infrastructures and citizen observatories

CSIC Editorial

General catalogue:

47,000 articles and **5,000** books (1,500 in electronic format).
100% of articles and 14% of books in Diamond Open Access.

New publications:

1,000 articles, **80** books and **1** rjournal of Utopian Studies, REUTOPIA.

Crossref Metadata Enrichment Award for the Geological and Mining Bulletin.

UNE National University Publishing Award for the best monograph in Science, Engineering, and Architecture for *Historia del vacío* (History of the Void).

CSIC in the media

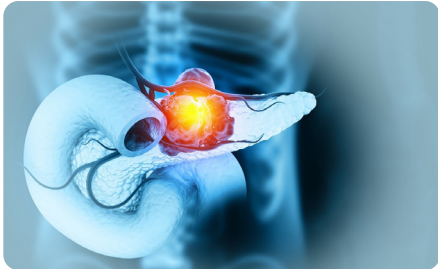
Scientific



New findings reveal that bone tools were already commonly produced 1.5 million years ago.



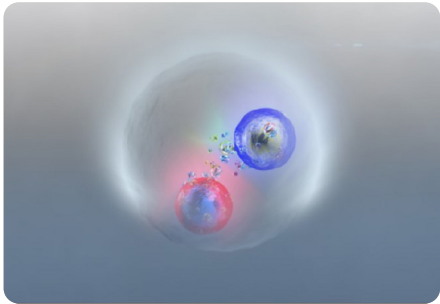
CSIC researchers find the oldest Greek marble altar in the Western Mediterranean.



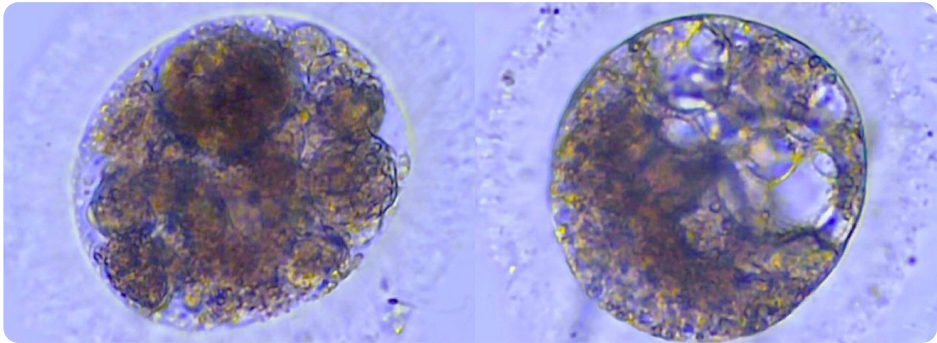
A novel strategy against pancreatic cancer proposes combining radiotherapy with hyperthermia generated by nanoparticles.



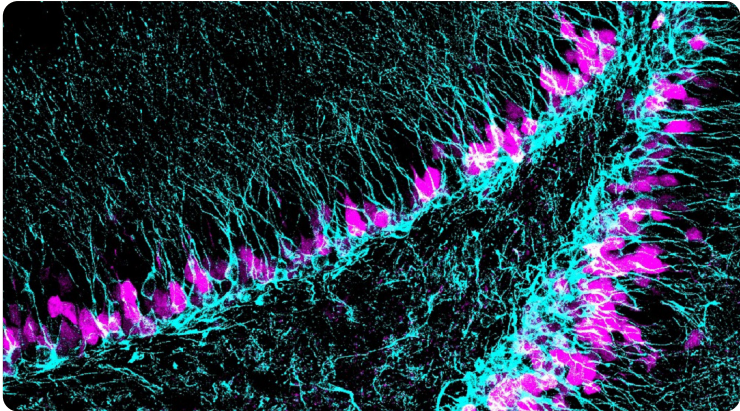
The first images of what will be the most complete 'movie' of the night sky ever made have been released.



Observation of a quantum state never seen before at CERN's Large Hadron Collider confirmed.



The CSIC and the Complutense University manage to produce Iberian lynx embryos in the laboratory for the first time.



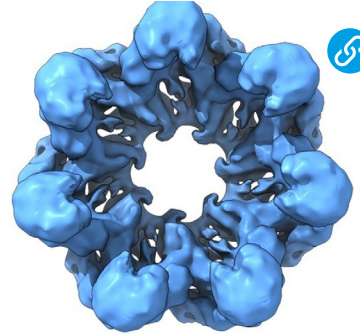
A key gene in embryonic development protects the stem cell reserve of the adult brain.



A new method removes contaminants from water with floating nanoparticles.



Spain combines record longevity with challenges in care for dependency and chronic diseases.



A team 'resurrects' proteins from 4,000 million years ago to decipher the cellular evolution of life on Earth.



CSIC scientists participate in obtaining the most complete Alzheimer's genetic risk scale.



Breastfeeding protects the baby against antibiotic resistance through the gut microbiota.

Press appearances

4,651

Television / radio appearances

5,780

Appearances in Digital Media

61,223

Social media

Posts across
all social networks

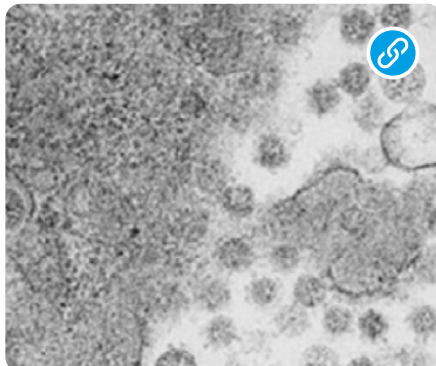
4,273

Total Impressions

11,677,788



A new method from the CSIC improves sustainability in the use of geothermal energy to air condition buildings.



An experimental intranasal vaccine eliminates the COVID-19 virus in mice.

Institutional



Avelino Corma, BBVA Foundation Frontiers of Knowledge Award.



Research and public funding drive revolutionary children's exoskeleton for personal use.



CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

ALUMNI

Network of collaboration and exchange of personal and professional experiences regarding science and innovation.



**YOU WERE, YOU WILL BE,
AND YOU ARE CSIC.**



If you have formed part of the CSIC at any time, join the network.

BECOME CSIC ALUMNI !!!





Annexes

Andalucía

Research Institutes

12

Own

8

Joint

1 SERVICE
INTEGRATION CENTRE

2 SPECIALISED
TECHNICAL UNITS

2 OCEANOGRAPHIC CENTRES

4 TERRITORIAL UNITS

1 DELEGATION

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
CABD	Andalusian Centre for Developmental Biology	Research Inst. (J)	GAL/Biology & Biomedicine	Campus Universidad Pablo de Olavide. Edif. 20. Avenida Rectora Rosario Valpuesta, 1. 41089	Dos Hermanas (Sevilla)	954 97 79 11	http://www.cabd.es
CABIMER	Andalusian Centre of Molecular Biology and Regenerative Medicine	Research Inst. (J)	GAL/Biology & Biomedicine	Avda. Américo Vespucio, S/N. Isla de La Cartuja - 41092	Sevilla	954 46 80 04	http://www.cabimer.es
EBD	Doñana Biological Station	Research Inst. (O)	GAL/Earth and Environment	Avda. Américo Vespucio Nº 26. Isla de La Cartuja - 41092	Sevilla	954 23 23 40/ 95 446 67 00	http://www.ebd.csic.es/
EEA	School of Arab Studies	Research Inst. (O)	GAS/Humanities	Cuesta del Chapiz, 22 - 18010	Granada	958 22 22 90/ 34 59	http://www.eea.csic.es/
EEZ	Zaidín Experimental Station	Research Inst. (O)	GAL/Agricultural Sciences	C/ Profesor Albareda, 1 - 18008	Granada	958 18 16 00	http://www.eez.csic.es/
EEZA	Experimental Station of Arid Zones	Research Inst. (O)	GAL/Earth and Environment	Ctra. de Sacramento S/N - 04120	La Cañada de San Urbano/Almería	950 28 10 45	http://www.eeza.csic.es/
IAA	Institute of Astrophysics of Andalusia	Research Inst. (O)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	Glorieta de la Astronomía S/N - 18008	Granada	958 12 13 11	http://www.iaa.csic.es
IAC-CSIC	Andalusian Institute of Earth Sciences	Research Inst. (O)	GAL/Earth and Environment	Avenida de las Palmeras Nº 4 - 18100	Armilla/Granada	958 23 00 00	http://www.iact.csic.es
IAS	Institute of Sustainable Agriculture	Research Inst. (O)	GAL/Agricultural Sciences	Alameda del Obispo, S/N - 14004	Córdoba	957 49 92 00/ 01 02	http://www.ias.csic.es/
IBIS	Seville Institute of Biomedicine	Research Inst. (J)	GAL/Biology & Biomedicine	Avda. Manuel Siurot S/N Campus del Hospital Universitario Virgen del Rocío - 41013	Sevilla	95 592 30 00	http://www.ibis-sevilla.es
IBVF	Institute of Plant Biochemistry and Photosynthesis	Research Inst. (J)	GAL/Agricultural Sciences	Avda. Américo Vespucio, S/N. Isla de La Cartuja - 41092	Sevilla	95 448 95 06	https://www.ibvf.us-csic.es
ICMAN	Andalusian Institute of Marine Sciences	Research Inst. (O)	GAL/Earth and Environment	Campus Río San Pedro - 11519	Puerto Real/Cádiz	956 83 26 12	http://www.icman.csic.es/
ICMS	Materials Science Institute of Seville	Research Inst. (J)	GAM/Materials S&T	Avda. Américo Vespucio, S/N. Isla de La Cartuja - 41092	Sevilla	95 448 95 27	http://www.icms.us-csic.es
IESA	Institute of Advanced Social Studies	Research Inst. (O)	GAS/Social Sciences	Pz. Campo Santo de los Martires, 7 - 14004	Córdoba	957 76 06 25/27	http://www.iesa.csic.es
IG	Institute of Fat	Research Inst. (O)	GAL/Food S&T	Universidad Pablo de Olavide Edificio 46 Ctra. de Utrera Km 1 - 41013	Sevilla	954 61 15 50	http://www.ig.csic.es



Andalucía (Cont.)

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
IHSM	Institute of Subtropical and Mediterranean Horticulture La Mayora	Research Inst. (J)	GAL/Agricultural Sciences	Algarrobo-Costa - 29750	Algarrobo/Málaga	95 254 89 90	http://www.ihsm.uma-csic.es/
IIQ	Institute for Chemical Research	Research Inst. (J)	GAM/Chemical S&T	Avda. Américo Vespucio, 49. Isla de La Cartuja - 41092	Sevilla	95 448 95 53	http://www.iiq.csic.es
IMSE,CNM	Seville Microelectronics Institute	Research Inst. (J)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	Avda. Américo Vespucio, Nº 28. Isla de La Cartuja - 41092	Sevilla	95 446 66 66	http://www.imse-cnm.csic.es
IPBLN	Lopez Neyra Institute of Parasitology and Biomedicine	Research Inst. (O)	GAL/Biology & Biomedicine	Avd. del Conocimiento, S/N - 18100	Armilla/Granada	958 18 16 21/28/26	http://www.ipb.csic.es/
IRNAS	Institute of Natural Resources and Agrobiology of Seville	Research Inst. (O)	GAL/Agricultural Sciences	Avda. Reina Mercedes, 10 - 41012	Sevilla	95 462 47 11	http://www.irnase.csic.es/
CICCARTUJA	Isla de La Cartuja Scientific Research Centre	SIC (J)		Avda. Americo Vespucio, S/N. Isla de La Cartuja - 41092	Sevilla	954 48 95 01	http://www.ciccartuja.es/
CNA	National Accelerator Centre	STU (J)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	C/ Tomas Alba Edison, 7 Isla de La Cartuja - 41092	Sevilla	954 46 05 53	http://www.centro.us.es/cna
REBIS	Seville Researcher Residence and Library	STU (O)		C/ Alfonso XII, 16 - 41002	Sevilla	954690110	www.rebis.csic.es
IEO-COCAD	Cadiz Oceanographic Centre	Oceanograph.C (O)	GAL/Earth and Environment	Puerto Pesquero, Muelle de Levante, S/N. - 11006	Cádiz	956 294 189	https://ieo.csic.es
IEO-COMA	Malaga Oceanographic Centre	Oceanograph.C (O)	GAL/Earth and Environment	Puerto Pesquero, S/N. - 29640	Fuengirola/Málaga	95 2197124	https://ieo.csic.es
IGME-UT	Almeria Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	"Ctra. de Sacramento, S/N 'La Cañada de San Urbano - 04120"	Almería	950 281 045	https://www.igme.es/unidad-territorial/almeria/
IGME-UT	Granada Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	Urb. Alcázar del Genil, 4 'Edif. Zulema, Bajo y 1ºC - 18006	Granada	958 183 143	https://www.igme.es/unidad-territorial/granada/
IGME-UT	Seville Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	"Subdelegación de Gobierno 'Pza. de España - Torre Norte - 41013"	Sevilla	954 236 611 - 954 236 677	https://www.igme.es/unidad-territorial/sevilla/
IGME-UT	Córdoba-Peñarroya Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	"Ctra. Estación, S/N 'Polígono la Papelera - 14200"	Peñarroya/ Córdoba	957 562 511	https://www.igme.es/servicios-e-infraestructuras/litoteca/
DI	CSIC Institutional Delegation in Andalusia	Delegation		Avda. de Maria Luisa S/N - 41013	Sevilla	954 23 23 49	delegacion.andalucia.csic.es



Aragón

Research Institutes

3

Own

2

Joint

1

SERVICE
INTEGRATION CENTRE

1

TERRITORIAL UNIT

1

DELEGATION

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
EEAD	Aula Dei Experimental Station	Research Inst. (O)	GAL/Agricultural Sciences	Avda. Montañana, 1005 - 50059	Zaragoza	976 71 61 00	http://www.eead.csic.es/
ICB	Institute of Carbochemistry	Research Inst. (O)	GAM/Chemical S&T	C/ Miguel Luesma Castan, 4 - 50015	Zaragoza	976 73 39 77	http://www.icb.csic.es/
INMA	Institute of Nanoscience and Materials of Aragon	Research Inst. (J)	GAM/Materials S&T	Facultad de Ciencias. c/Pedro Cerbuna, 12 - 50009	Zaragoza	976 76 28 61	https://inma.unizar-csic.es/
IPE	Pyrenean Institute of Ecology	Research Inst. (O)	GAL/Earth and Environment	Avd. Montañana, S/N - 50016	Zaragoza	976 36 93 93	http://www.ipe.csic.es/
ISQCH	Institute of Chemical Synthesis and Homogeneous Catalysis	Research Inst. (J)	GAM/Chemical S&T	Facultad de Ciencias. C/ Pedro Cerbuna, 12. 50009	Zaragoza	976 76 12 31/ 10 00	http://www.isqch.unizar-csic.es
CEQMA	Aragon Chemistry and Materials Centre	SIC (J)		Facultad de Ciencias. C/ Pedro Cerbuna, 12. 50009	Zaragoza	976 76 12 31/ 10 00	
IGME-UT	Zaragoza Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	Residencia CSIC campus Aula Dei. Avda Montaña 1005 - 50059	Zaragoza	976 555 153	https://www.igme.es/unidad-territorial/zaragoza/
DI	CSIC Institutional Delegation in Aragon	Delegation		Plaza Emilio Alfaro, 2-3 - 50003	Zaragoza	976 46 96 08	delegacion.aragon.csic.es

Brussels

Delegación

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
DI	CSIC Institutional Delegation in the UE	Delegation		Rue du Trône, 62 - 1050	Bruselas/Bélgica	+32 2 289 2562 / 2565	d-bruselas.csic.es



Canarias

Research Institutes 1 Own

1 OCEANOGRAPHIC CENTRE 1 TERRITORIAL UNIT 1 DELEGATION

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
IPNA	Institute of Natural Products and Agrobiology	Research Inst. (O)	GAM/Chemical S&T	Avda. Astrofísico Francisco Sanchez, 3 - 38205	San Cristóbal de La Laguna / Santa Cruz de Tenerife	922 25 21 44/32 48	http://www.ipna.csic.es/
IEO-COC	Canary Island Oceanographic Centre	Oceanograph.C (O)	GAL/Earth and Environment	La Farola Del Mar 22, Darsena Pesquera 1. Parcela 8- 31180	Santa Cruz de Tenerife	922 549 400	https://ieo.csic.es
IGME-UT	Las Palmas de Gran Canaria Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	Calle Alonso Alvarado 43, 2ªA, 35003	Las Palmas de Gran Canaria	928 366 575	https://www.igme.es/unidad-territorial/las-palmas-de-gran-canaria/
DI	CSIC Institutional Delegation in Canarias	Delegation		Avda. Astrofísico Francisco Sánchez, 2, - 38206	San Cristóbal de La Laguna / Santa Cruz de Tenerife	922 25 17 28	delegacion.canarias.csic.es

Cantabria

Research Institutes 2 Joint

1 OCEANOGRAPHIC CENTRE 1 DELEGATION

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
IBBTEC	Institute of Biomedicine and Biotechnology of Cantabria	Research Inst. (J)	GAL/Biology & Biomedicine	C/Albert Einstein, 22 . Parque Científico y Tecnológico de Cantabria - 39011	Santander	942 20 39 30	http://www.unican.es/ibbttec/
IFCA	Physics Institute of Cantabria	Research Inst. (J)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	Edificio Juan Jordá. Avda de los Castros S/N - 39005	Santander	942 20 14 59	http://www.ifca.csic.es
IEO-COST	Santander Oceanographic Centre	Oceanograph.C (O)	GAL/Earth and Environment	Promontorio de San Martín S/N. - 39080	Santander	942 291 716	https://ieo.csic.es
DI	CSIC Institutional Delegation in Cantabria	Delegation		Plaza Velarde, Nº5 - 39001	Santander	942 20 14 59	delegacion.cantabria.csic.es



Castilla y León

Research Institutes

1

Own

4

Joint

2

TERRITORIAL UNITS

1

DELEGATION

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
CIC	Cancer Research Centre	Research Inst. (J)	GAL/Biology & Biomedicine	Campus Miguel de Unamuno - 37007	Salamanca	923 29 47 20	http://www.cicancer.org/
IBFG	Institute of Functional Biology and Genomics	Research Inst. (J)	GAL/Biology & Biomedicine	Zacarias Gonzalez, 2 - 37007	Salamanca	923 29 49 00	http://ibfg.usal-csic.es
IBGM	Institute of Molecular Biology and Genetics	Research Inst. (J)	GAL/Biology & Biomedicine	C/ Sanz y Fores, S/N - 47003	Valladolid	983 18 48 01	http://www.ibgm.med.uva.es/
IGM	Institute of Mountain Livestock	Research Inst. (J)	GAL/Agricultural Sciences	Ctra. León-Vega de Infanzones (Finca Marzanas-Grulleros) - 24346	Vega de Infanzones / León	987 31 70 64 / 71 56	http://www.igm.ule-csic.es/
IRNASA	Institute for Natural Resources and Agrobiology of Salamanca	Research Inst. (O)	GAL/Agricultural Sciences	C/ Cordel de Merinas, 42-54 - 37008	Salamanca	923 21 96 06	http://www.irnasa.csic.es/
IGME-UT	León Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	Parque Científico de León, Avda. Real 1, Edificio 1, 24006	León	987 262 171	https://www.igme.es/unidad-territorial/leon/
IGME-UT	Salamanca Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	Plaza de la Constitución 1, Planta 3ª, 37001	Salamanca	923 265 009	https://www.igme.es/unidad-territorial/salamanca/
DI	CSIC Institutional Delegation in Castilla y León	Delegation		Edificio de Usos Múltiples, Plaza del Milenio, 1, 7ª Planta - 47014	Valladolid	983 378 422	delegacion.castillayleon.csic.es

Castilla - La Mancha

Research Institutes

1

Joint

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
IREC*	Hunting Resources Research Institute	Research Inst. (J)	GAL/Earth and Environment	Ronda de Toledo, S/N - 13005	Ciudad Real	926 29 54 50	www.irec.es

* It also houses the headquarters of the institutional delegate.



Cataluña

Research Institutes

13

Own

5

Joint

2

Associated

2 SERVICE
INTEGRATION CENTRE

1 SPECIALISED
TECHNICAL UNIT

1 DELEGATION

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
CEAB	Centre for Advanced Studies in Blanes	Research Inst. (O)	GAL/Earth and Environment	C/ D'accés a la Cala St. Francesc, 14 - 17300	Blanes / Girona	972 33 61 01/02	http://www.ceab.csic.es/
CRAG	Agrigenomics Research Centre	Associated Inst. (I)	GAL/Agricultural Sciences	Campus De La Universidad Autónoma De Barcelona. C/ De La Vall Moronta, Edifici Crag. - 08193	Cerdanyola del Vallès / Barcelona	93 400 61 00/02	www.cragenomica.es
CREAF	Centre for Ecological Research and Forestry Applications	Research Inst. (I)	GAL/Earth and Environment	Edificio C Campus Universidad Autónoma de Barcelona (Bellaterra) - 08193	Cerdanyola del Vallès / Barcelona	93 581 13 12	www.creaf.es
GE03BCN	Geosciences Barcelona	Research Inst. (O)	GAL/Earth and Environment	C/ Luis Sole I Sabaris, S/N - 08028	Barcelona	93 409 54 10	https://geo3bcn.csic.es
IAE	Institute of Economic Analysis	Research Inst. (O)	GAS/Social Sciences	Campus Universidad Autónoma de Barcelona (Bellaterra) - 08193	Cerdanyola del Vallès / Barcelona	93 580 66 12	http://www.iae.csic.es/
IBB	Botanical Institute of Barcelona	Research Inst. (I)	GAL/Earth and Environment	Passeig Migdia, S/N. Parque de Monjuic - 08038	Barcelona	93 289 06 11	http://www.ibb.csic.es/
IBE	Institute of Evolutionary Biology	Research Inst. (I)	GAL/Earth and Environment	Passeig Marítim de la Barceloneta, 37 - 08003	Barcelona	93 230 95 07	http://www.ibe.upf-csic.es
IBMB	Barcelona Institute of Molecular Biology	Research Inst. (O)	GAL/Biology & Biomedicine	C/ Baldiri Reixac, 4 - 08028	Barcelona	93 403 46 68	http://www.ibmb.csic.es/
ICE	Institute of Space Sciences	Research Inst. (O)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	Carrer de Can Magrans S/N, Campus Universidad Autónoma de Barcelona (Bellaterra) - 08193	Cerdanyola del Vallès / Barcelona	93 737 97 88	http://www.ice.csic.es
ICM	Institute of Marine Sciences	Research Inst. (O)	GAL/Earth and Environment	Passeig Marítim, 37-49 - 08003	Barcelona	93 230 95 00	http://www.icm.csic.es/
ICMAB	Materials Science Institute of Barcelona	Research Inst. (O)	GAM/Materials S&T	Campus Universidad Autónoma de Barcelona (Bellaterra) - 08193	Cerdanyola del Vallès / Barcelona	93 580 18 53	http://www.icmab.csic.es
ICN2	Centre for Research in Nanoscience and Nanotechnology	Associated Inst. (I)	GAM/Materials S&T	Campus Universidad Autónoma de Barcelona (Bellaterra) - 08193	Cerdanyola del Vallès / Barcelona	93 737 26 49	https://icn2.cat/en/
IDAEA	Institute for Environmental Diagnostics and Water Studies	Research Inst. (O)	GAM/Chemical S&T	C/ Jorge Girona Salgado, 18-26 - 08034	Barcelona	93 400 61 00	http://www.idaea.csic.es
IIBB	Biomedical Research Institute of Barcelona	Research Inst. (O)	GAL/Biology & Biomedicine	C/ Rosellon, 161. 6 y 7 Planta - 08036	Barcelona	93 363 83 00/25	http://www.iibb.csic.es
IIIA	Artificial Intelligence Research Institute	Research Inst. (O)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	Campus Universidad Autónoma de Barcelona (Bellaterra) - 08193	Cerdanyola del Vallès / Barcelona	93 580 95 70	http://www.iiia.csic.es/
IMB-CNM	Barcelona Institute of Microelectronics	Research Inst. (O)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	Campus Universidad Autónoma de Barcelona (Bellaterra) - 08193	Cerdanyola del Vallès / Barcelona	93 594 77 00	http://www.imb-cnm.csic.es
IMF	Mila y Fontanals Humanities Research Institution	Research Inst. (O)	GAS/Humanities	C/ Egipcíacas, 15 - 08001	Barcelona	93 442 34 89	http://www.imf.csic.es/
IQAC	Institute of Advanced Chemistry of Catalonia	Research Inst. (O)	GAM/Chemical S&T	C/ Jorge Girona Salgado, 18-26 - 8034	Barcelona	93 400 61 00/02	http://www.iqac.csic.es
IRII	Institute of Robotics and Industrial Informatics	Research Inst. (I)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	C/ Llorens I Artigues, 4-6, 2º - Edificio U - 8028	Barcelona	93 401 57 51	http://www.iri.csic.es
OE	Ebro Observatory	Research Inst. (I)	GAL/Earth and Environment	C/ Horta Alta, 38 - 43520	Roquetes / Tarragona	977 50 05 11	http://www.obsebre.es
CID	Centre for Research and Development Pascual Vila	SIC (O)		C/ Jorge Girona Salgado, 18-26 - 08034	Barcelona	93 400 61 00	http://www.cid.csic.es/
CMIMA	Mediterranean Marine and Environmental Research Centre	SIC (O)		Passeig Marítim, 37-49 - 08003	Barcelona	93 230 95 00	http://www.cmima.csic.es/
UTM	Marine Technology Unit	STU (O)		Passeig Marítim, 37-49 - 08003	Barcelona	93 230 95 00	http://www.utm.csic.es
DI	CSIC Institutional Delegation in Cataluña	Delegation		Egipcíacas, 15 - 08001	Barcelona	934 42 65 76	delegacion.catalunya.csic.es



Comunidad de Madrid

1 SERVICE
INTEGRATION CENTRE

2 SPECIALISED
TECHNICAL UNITS

1 DELEGATION

Research Institutes

30

Own

9

Joint

National Centres

3

Own

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
CAB	Astrobiology Centre	Research Inst. (J)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	Ctra. de Ajalvir, Km. 4 - 28850	Torrejón de Ardoz / Madrid	91 520 64 33	http://www.cab.inta-csic.es
CAR	Centre for Automation and Robotics	Research Inst. (J)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	Ctra. de Campo Real Km 0,200 La Poveda - 28500	Arganda del Rey / Madrid	91 871 19 00	http://www.car.upm-csic.es
CBGP	Plant Biotechnology and Genomics Centre	Research Inst. (J)	GAL/Agricultural Sciences	Parque Científico y Tecnológico, Upm Campus de Montegancedo, Ctra, M-40, Km 38 - 28233	Pozuelo de Alarcón / Madrid	91 0679100 ext. 79100	https://www.cbgp.upm.es/index.php/es/
CBM	Severo Ochoa Molecular Biology Centre	Research Inst. (J)	GAL/Biology & Biomedicine	C/ Nicolás Cabrera, 1 Campus Cantoblanco Uam - 28049	Madrid	91 196 44 01	http://www.cbm.csic.es
CENIM	National Metallurgical Research Centre	Research Inst. (O)	GAM/Materials S&T	Avda. Gregorio del Amo Num.8 - 28040	Madrid	91 553 89 00	http://www.cenim.csic.es/
CIAL	Food Science Research Institute	Research Inst. (J)	GAL/Food S&T	C/ Nicolás Cabrera, 9. Campus de Cantoblanco - 28049	Madrid	91 001 79 00	http://www.cial.uam-csic.es/
CIB	Margarita Salas Biological Research Centre	Research Inst. (O)	GAL/Biology & Biomedicine	C/ Ramiro de Maeztu, 9 - 28040	Madrid	91 837 31 12	http://www.cib.csic.es/
CISA	Animal Health Research Centre	Research Inst. (O)	GAL/Agricultural Sciences	Carretera Algete-El Casar de Talamanca, Km. 8,1 - 28130	Valdeolmos / Madrid	91 620 23 00	https://www.inia.es/Pages/Home.aspx
CNB	National Biotechnology Centre	Research Inst. (O)	GAL/Biology & Biomedicine	C/ Darwin, 3. Campus Cantoblanco Uam - 28049	Madrid	91 585 45 00	http://www.cnb.csic.es/
CNC	Cajal Neuroscience Center	Research Inst. (O)	GAL/Biology & Biomedicine	Avda. de León, 1 Campus UAH - 28805	Alcala de Henares / Madrid	91 348 87 82	https://cajal.csic.es/
ICA	Institute of Agricultural Sciences	Research Inst. (O)	GAL/Agricultural Sciences	C/ Serrano, 115 Bis - 28006	Madrid	91 745 25 00	http://www.ica.csic.es/
ICIFOR	Institute of Forestry Sciences	Research Inst. (O)	GAL/Agricultural Sciences	Ctra. De la Coruña, Km 7,5. 28040	Madrid	91 347 67 80	https://www.inia.es/unidades/Institutos%20y%20Centros/ICIFOR/Pages/Home.aspx
ICMAT	Institute of Mathematical Sciences	Research Inst. (J)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	C/ Nicolás Cabrera, 13-15. Campus Cantoblanco Uam - 28049	Madrid	91 29 99 704	http://www.icmat.es
ICMM	Materials Science Institute of Madrid	Research Inst. (O)	GAM/Materials S&T	C/ Sor Juana Inés de la Cruz,3 Campus Cantoblanco Uam - 28049	Madrid	91 334 90 00	http://www.icmm.csic.es/
ICP	Institute of Catalysis and Petrochemistry	Research Inst. (O)	GAM/Chemical S&T	C/ Marie Curie, 2 Campus de Cantoblanco - 28049	Madrid	91 585 48 00	https://icp.csic.es
ICTAN	Institute of Food Science and Technology and Nutrition	Research Inst. (O)	GAL/Food S&T	C/ José Antonio Novais, 10 - 28040	Madrid	91 549 23 00	http://www.ictan.csic.es
ICTP	Institute of Polymer Science and Technology	Research Inst. (O)	GAM/Materials S&T	C/ Juan de la Cierva, 3 - 28006	Madrid	91 562 29 00	http://www.ictp.csic.es/
ICV	Institute of Ceramics and Glass	Research Inst. (O)	GAM/Materials S&T	C/ Kelsen,5. Campus de Cantoblanco - 28049	Madrid	91 735 58 40	http://www.icv.csic.es/
IEGD	Institute of Economics, Geography and Demography	Research Inst. (O)	GAS/Social Sciences	C/ Albasanz, 26-28. 3ª Modulo F - 28037	Madrid	91 602 23 00	http://www.iegd.csic.es/
IEM	Institute for the Structure of Matter	Research Inst. (O)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	C/ Serrano, 113bis, 119, 121 y 123 - 28006	Madrid	91 561 68 00	http://www.iem.csic.es
IEO	Spanish Institute of Oceanography	National Centre (O)	GAL/Earth and Environment	C/ Del Corazón de María, 8 - 28002	Madrid	913421100	https://leo.csic.es
IETCC	Eduardo Torroja Institute of Construction Sciences	Research Inst. (O)	GAM/Materials S&T	C/ Serrano Galvache, 4 - 28033	Madrid	91 302 04 40	http://www.ietcc.csic.es/
IFF	Institute of Fundamental Physics	Research Inst. (O)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	C/ Serrano, 113bis y 123 - 28006	Madrid	91 561 68 00/590 16 19	http://www.iff.csic.es/
IFS	Institute of Philosophy	Research Inst. (O)	GAS/Humanities	C/ Albasanz, 26-28. 3ª Modulo C - 28037	Madrid	91 602 23 00	http://www.ifs.csic.es/
IFT	Institute of Theoretical Physics	Research Inst. (J)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	C/ Nicolás Cabrera, 13-15. Campus Cantoblanco Uam - 28049	Madrid	91 299 98 00/02	http://www.ift.uam-csic.es



Comunidad de Madrid (Cont.)

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
IGEO	Institute of Geosciences	Research Inst. (I)	GAL/Earth and Environment	C/ Severo Ochoa 7, 4ª Planta - 28040	Madrid	91 394 48 13	http://www.igeo.ucm-csic.es/
IGME	Geological and Mining Institute of Spain	National Centre (O)	GAL/Earth and Environment	C/ Rios Rosas, 23 - 28003	Madrid	913495700	http://www.igme.es/
IH	Institute of History	Research Inst. (O)	GAS/Humanities	C/ Albasanz, 26-28 - 2ª Planta - 28037	Madrid	91 602 23 00	http://www.ih.csic.es/
IIBM	Sols-Morreale Biomedical Research Institute	Research Inst. (I)	GAL/Biology & Biomedicine	C/ Arturo Duperier, 4 - 28029	Madrid	91 585 44 00/43 95/94	http://www.iib.csic.es
ILC	Institute for Languages and Cultures of the Mediterranean and the Near East	Research Inst. (O)	GAS/Humanities	C/ Albasanz, 26-28 - 1ª Planta - 28037	Madrid	91 602 23 00	http://www.ilc.csic.es/
ILLA	Institute of Language, Literature and Anthropology	Research Inst. (O)	GAS/Humanities	C/ Albasanz, 26-28 - 1ª Planta - 28037	Madrid	91 602 23 00	www.illa.csic.es
IMN-CNM	Institute of Micro and Nanotechnology	Research Inst. (O)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	C/ Isaac Newton, 8 - 28760	Tres Cantos / Madrid	91 806 07 00	http://www.imm-cnm.csic.es
INIA	National Institute of Agricultural and Food Research and Technology	National Centre (O)	GAL/Agricultural Sciences	Ctra. de La Coruña, Km 7,5 - 28040	Madrid	913473900	http://www.inia.es/
IO	Daza de Valdes Optics Institute	Research Inst. (O)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	C/ Serrano, 121 - 28006	Madrid	91 561 68 00	http://www.io.csic.es
IPP	Institute of Public Goods and Policies	Research Inst. (O)	GAS/Social Sciences	C/ Albasanz, 26-28, 3ª Modulo D - 28037	Madrid	91 602 23 00	http://www.ipp.csic.es
IQF	Institute of Physical Chemistry Blas Cabrera	Research Inst. (O)	GAM/Chemical S&T	C/ Serrano, 119 - 28006	Madrid	91 561 94 00 / 91 585 52 47/49	http://www.iqfr.csic.es/
IQM	Institute of Medicinal Chemistry	Research Inst. (O)	GAM/Chemical S&T	C/ Juan de la Cierva, 3 - 28006	Madrid	91 562 29 00	http://www.iqm.csic.es/
IQOG	Institute of General Organic Chemistry	Research Inst. (O)	GAM/Chemical S&T	C/ Juan de la Cierva, 3 - 28006	Madrid	91 562 29 00	http://www.iqog.csic.es
ITEFI	Leonardo Torres Quevedo Institute of Physical and Information Technologies	Research Inst. (O)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	C/ Serrano, 144 - 28006	Madrid	91 561 88 06	http://www.itefi.csic.es/es
MNCN	National Museum of Natural Sciences	Research Inst. (O)	GAL/Earth and Environment	C/ José Gutierrez Abascal, 2 - 28006	Madrid	91 411 13 28	http://www.mncn.csic.es/
QUARC	Center for Quantum Science and Technology	Research Inst. (O)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	EN TRÁMITE	Madrid	EN TRÁMITE	EN TRÁMITE
RJB	Royal Botanical Garden	Research Inst. (O)	GAL/Earth and Environment	Plaza de Murillo, 2 - 28014	Madrid	91 420 30 17	http://www.rjb.csic.es/
CCHS	Centre for Human and Social Sciences	SIC (O)		C/ Albasanz, 26-28 Planta baja - 28037	Madrid	91 602 23 00	http://www.cchs.csic.es/
CENQUIOR	Lora Tamayo Organic Chemistry Centre	SIC (O)		C/ Juan de la Cierva, 3 - 28006	Madrid	91 562 29 00	http://www.cenquior.csic.es/
CFMAC	Miguel A. Catalan Physics Centre	SIC (O)		C/ Serrano, 121 - 28006	Madrid	91 561 68 00	http://www.cfmac.csic.es/
CFTMAT	Centre Ffor Theoretical Physics And Mathematics	SIC (I)		C/ Nicolas Cabrera 13-15 - Campus Cantoblanco Uam - 28049	Madrid	91 299 96 50	https://www.ift.uam-csic.es/
CI2A	Alcala Interdisciplinary Research Centre	SIC (O)		Avda. de León, 1 - 28805	Alcala de Henares / Madrid		www.ci2a.csic.es
CRF	Centre for Plant Genetic Resources and Sustainable Agriculture	STU (O)	GAL/Agricultural Sciences	Autovia A-li, Km 36 Finca la Canaleja - 28800	Alcala de Henares / Madrid	91 881 92 61	https://www.inia.es/
DI	CSIC Institutional Delegation in Madrid	Delegation		C/ Serrano, 115 Bis - 28006	Madrid	91 568 16 87 / 55 / 59	delegacion.madrid.csic.es

Comunidad Foral de Navarra

Research Institutes

1

Joint

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
IDAB*	Institute of Agrobiotechnology	Research Inst. (J)	GAL/Agricultural Sciences	Avda De Pamplona, 123 - 31192	Mutilva/Navarra	948 16 80 00	http://idab.es/

*It also houses the headquarters of the institutional delegate.

Comunidad Valenciana

Research Institutes

3

Own

8

Joint

1

TERRITORIAL UNIT

1

DELEGATION

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
CIDE	Desertification Research Centre	Research Inst. (J)	GAL/Earth and Environment	'Ctra. Cv-315 Km. 10,700 - 46113	Moncada / Valencia	96 342 41 62	http://www.uv.es/cide/
I2SYSBIO	Institute of Integrative Systems Biology	Research Inst. (J)	GAL/Biology & Biomedicine	C/ Catedrático José Beltrán, 2 - 46980	Paterna / Valencia	963 544 810 / 963 544 782	https://www.uv.es/
I3M	Institute of Instrumentation for Molecular Imaging	Research Inst. (J)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	Camino de Vera S/N Edificio 8B Acceso N, 1ª Planta - 46022	Valencia	96 387 99 07	www.i3m.upv.es
IATA	Institute of Agrochemistry and Food Technology	Research Inst. (O)	GAL/Food S&T	Avda. Catedrático Agustín Escardino Benlloch, 7 - 46980	Paterna / Valencia	96 390 00 22	http://www.iata.csic.es/
IATS	Institute of Aquaculture Torre de la Sal	Research Inst. (O)	GAL/Agricultural Sciences	C/ Torre de la Sal, S/N - 12595	Cabanes / Castellón de la Plana	964 31 95 00	http://www.iats.csic.es/
IBMCP	Primo Yufera Institute of Molecular and Cellular Biology of Plants	Research Inst. (J)	GAL/Agricultural Sciences	Ingeniero Fausto Elio, S/N. Upv-Ciudad Politécnica de la Innovación - 46022	Valencia	96 387 78 56	http://www.ibmcp.csic.es
IBV	Institute of Biomedicine of Valencia	Research Inst. (O)	GAL/Biology & Biomedicine	C/ Jaime Roig, 11 - 46010	Valencia	96 339 17 60	http://www.ibv.csic.es
IFIC	Institute of Corpuscular Physics	Research Inst. (J)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	C/ Catedrático José Beltrán Martínez, 2 - 46980	Paterna / Valencia	96 354 34 73	http://ific.uv.es/
IN	Institute of Neurosciences	Research Inst. (J)	GAL/Biology & Biomedicine	Avda. D. Santiago Ramón y Cajal S/N - 3550	Sant Joan D'alacant / Alicante	96 523 37 00	http://in.umh-csic.es
INGENIO	Institute for Innovation and Knowledge Management	Research Inst. (J)	GAS/Social Sciences	Campus Upv. Camino de Vera S/N Edificio 8e - 46022	Valencia	96 387 70 48	http://www.ingenio.upv.es/
ITQ	Institute of Chemical Technology	Research Inst. (J)	GAM/Chemical S&T	Campus Upv. Avda de los Naranjos S/N. Edificio 6c - 46022	Valencia	96 387 78 00	http://itq.upv-csic.es/
IGME-UT	Valencia Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	C/ Cirilo Amorós, 42 – 'Entreplanta - 46004	Valencia	963 943 474	https://www.igme.es/unidad-territorial/valencia/
DI	CSIC Institutional Delegation in C. Valenciana	Delegation		C/ Bailía, 1 (Plaza de la Virgen) - 46003	Valencia	96 362 27 57	delegacion.comunitatvalenciana.csic.es



Extremadura

Research Institutes

1

Joint

Acronym	Name	Kind	Area/Sub-area	Address	Municipality/ Province	Telephone	Web
IAM*	Institute of Archaeology-Merida	Research Inst. (J)	GAS/Humanities	Plaza de España, 15 - 06800	Mérida / Badajoz	924 31 56 61	http://www.iam.csic.es

*It also houses the headquarters of the institutional delegate.

Galicia

Research Institutes

3

Own

1

Joint

2

OCEANOGRAPHIC CENTRES

1

DELEGATION

Acronym	Name	Kind	Area/Sub-area	Address	Municipality/ Province	Telephone	Web
IEGPS	Institute of Galician Studies Padre Sarmiento	Research Inst. (J)	GAS/Humanities	Rua de San Roque, 2 - 15704	Santiago de Compostela / La Coruña	981 54 02 20/23	http://www.iegps.csic.es/
IIM	Marine Research Institute	Research Inst. (O)	GAL/Earth and Environment	C/ Eduardo Cabello, 6 - 36208	Vigo / Pontevedra	986 23 19 30	http://www.iim.csic.es/
INCIPIT	Institute for Heritage Sciences	Research Inst. (O)	GAS/Humanities	Avda. de Vigo S/N - 15705	Santiago de Compostela / La Coruña	981 590 962	www.incipit.csic.es
MBG	Biological Mission of Galicia	Research Inst. (O)	GAL/Agricultural Sciences	Palacio de Salcedo. Carballeira, 8 (Salcedo) - 36143	Pontevedra	986 85 48 00	http://www.mbg.csic.es/
IEO-COAC	A Coruna Oceanographic Centre	Oceanograph.C (O)	GAL/Earth and Environment	Paseo Marítimo Alcalde Francisco Vázquez, 10 - 15001	Coruña (A)	981 21 81 51	https://ieo.csic.es
IEO-COV	Vigo Oceanographic Centre	Oceanograph.C (O)	GAL/Earth and Environment	Subida a Radio Faro, 50-52 - 36390	Vigo / Pontevedra	986 492 111	https://ieo.csic.es
DI	CSIC Institutional Delegation in Galicia	Delegation		Rúa do Franco, 2, Apdo. 122, 15704	Santiago de Compostela / La Coruña	981 55 27 88	delegacion.galicia.csic.es



Illes Balears

Research Institutes 2 Joint

1 OCEANOGRAPHIC CENTRE 1 TERRITORIAL UNIT

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
IFISC	Institute of Interdisciplinary Physics and Complex Systems	Research Inst. (I)	GAM/Physics, Mathematics, Robotics and Computing Science and Technology	Carretera de Valldemossa, Km. 7,2. Edificio Científico Técnico. Campus Universitat Illes Balears - 07122	Palma de Mallorca	971 17 32 90	http://ifisc.uib-csic.es
IMEDEA*	Mediterranean Institute for Advanced Studies	Research Inst. (I)	GAL/Earth and Environment	C/ Miquel Marqués, Nº 21 - 07190	Esporles / Palma de Mallorca	971 61 18 18	http://www.imedeia.uib-csic.es
IEO-COB	Balearic Islands Oceanographic Centre	Oceanograph.C (O)	GAL/Earth and Environment	Muelle de Poniente, S/N. - 07015	Palma de Mallorca	971 133 720	https://ieo.csic.es
IGME-UT	CSIC Institutional Delegation in Palma de Mallorca	Territorial U. (O)	GAL/Earth and Environment	C/ Felicià Fuster nº7, 07006	Mallorca	971 467 020	https://www.igme.es/unidad-territorial/palma-de-mallorca/

*It also houses the headquarters of the institutional delegate.

La Rioja

Research Institutes 1 Joint

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
ICVV*	Institute of Vine and Wine Science	Research Inst. (I)	GAL/Food S&T	Apdo. Postal Nº 1.042. 26080 Logroño. Finca la Grajera. Ctra. de Burgos Km. 6 (Lo-20, Salida 13) - 26007	Logroño/La Rioja	941 89 49 80	http://www.icvv.es

*It also houses the headquarters of the institutional delegate.

País Vasco

Research Institutes 2 Joint

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
CFM*	Materials Physics Centre	Research Inst. (I)	GAM/Materials S&T	Pº Manuel de Lardizabal, 5 - 20018	Donostia-San Sebastián/ Guipuzcoa	943 01 87 86	http://cfm.ehu.es/
IBF	Biophysics Institute	Research Inst. (I)	GAL/Biology & Biomedicine	Parque Científico de la Upv/Ehu, Barrio de Sarriena S/N - 48940	Leioa/Vizcaya	94 601 26 25	http://biofisika.org

*It also houses the headquarters of the institutional delegate.



Principado de Asturias

Research Institutes

2

Own

2

Joint

1

OCEANOGRAPHIC CENTRE

1

TERRITORIAL UNIT

1

DELEGATION

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
CINN	Nanomaterials and Nanotechnology Research Centre	Research Inst. (J)	GAM/Materials S&T	Avda. de la Vega 4-6. El Entrego - 33940	San Martín del Rey Aurelio / Oviedo	985 73 36 44	www.cinn.es
IMIB	Joint Institute for Biodiversity Research	Research Inst. (J)	GAL/Earth and Environment	Calle Gonzalo Gutiérrez Quiros 1 - 33600	Mieres / Oviedo	985 10 30 00	http://www.onioviedo.es/IMIB/
INCAR	Institute for Carbon Science and Technology	Research Inst. (O)	GAM/Chemical S&T	C/ Francisco Pintado Fe, 26 - 33011	Oviedo	98 511 90 90	http://www.incar.csic.es/
IPLA	Institute of Dairy Products of Asturias	Research Inst. (O)	GAL/Food S&T	Francisco Pintado Fe, 25 - 33011	Oviedo	98 589 21 31	http://www.ipla.csic.es/
IEO-COG	Gijon Oceanographic Centre	Oceanograph.C (O)	GAL/Earth and Environment	Avda. Príncipe de Asturias, 70 Bis - 33212	Gijón	985 309 780	https://ieo.csic.es
IGME-UT	Oviedo Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	C/ Matemático Pedrayes, 25 - 33005	Oviedo	985 258 611 - 985 258 656	https://www.igme.es/unidad-territorial/oviedo/
DI	CSIC Institutional Delegation in Asturias	Delegation		C/ Quintana, 32 - 33009	Oviedo	984 84 24 49	delegacion.asturias.csic.es

Región de Murcia

Research Institutes

1

Own

1

OCEANOGRAPHIC CENTRE

1

TERRITORIAL UNIT

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
CEBAS*	Centre for Edaphology and Applied Biology of the Segura Region	Research Inst. (O)	GAL/Agricultural Sciences	Campus Universitario de Espinardo - 30100	Murcia	968 39 62 00	http://www.cebas.csic.es/
IEO-COMU	Murcia Oceanographic Centre	Oceanograph.C (O)	GAL/Earth and Environment	Varadero, 1. Lo Pagan - 30740	San Pedro Del Pinatar / Murcia	968 179 410	https://ieo.csic.es
IGME-UT	Murcia Territorial Unit	Territorial U. (O)	GAL/Earth and Environment	"Avda. Miguel de Cervantes, '45 - 5° A 'Edificio Expo Murcia - 30009"	Murcia	968 245 012	https://www.igme.es/unidad-territorial/murcia/

*It also houses the headquarters of the institutional delegate.

Rome

Research Institutes

1

Own

Acronym	Name	Kind	Area /Sub-area	Address	Municipality/ Province	Telephone	Web
EEHAR	Spanish School of History and Archaeology	Research Inst. (O)	GAS/Humanities	Via di Santa Eufemia, 13 - 00187	Roma/Italia	+39 06 83 88 39 00	http://www.eehar.csic.es



Human Resources

Staff distribution by Autonomous Region and functional grouping

	Researcher			Researcher in training			Technician			Management / Admin. / Services			Grand Total		
	M	W	Total	M	W	Total	M	W	Total	M	W	Total	M	W	Total
ANDALUCÍA	508	309	817	137	153	290	635	719	1,354	134	141	275	1,414	1,322	2,736
ARAGÓN	128	90	218	53	39	92	131	136	267	18	36	54	330	301	631
CANARIAS	40	24	64	6	10	16	50	70	120	9	15	24	105	119	224
CANTABRIA	49	30	79	11	8	19	58	81	139	10	6	16	128	125	253
CASTILLA Y LEÓN	54	39	93	13	29	42	62	103	165	15	22	37	144	193	337
CASTILLA-LA MANCHA	11	5	16	1	1	2	15	21	36	4	3	7	31	30	61
CATALUÑA	537	358	895	171	187	358	525	557	1,082	60	76	136	1,293	1,178	2,471
COMUNIDAD DE MADRID	1,276	878	2,154	370	407	777	1,407	1,864	3,271	394	544	938	3,447	3,693	7,140
COMUNIDAD FORAL DE NAVARRA	7	4	11	2	4	6	9	24	33	4	1	5	22	33	55
COMUNITAT VALENCIANA	312	184	496	135	136	271	286	403	689	45	59	104	778	782	1,560
EXTREMADURA	7	3	10	2	1	3	4	4	8	0	0	0	13	8	21
GALICIA	102	91	193	11	26	37	140	279	419	31	41	72	284	437	721
ILLES BALEARS	71	51	122	20	21	41	56	86	142	8	11	19	155	169	324
LA RIOJA	9	8	17	1	5	6	14	20	34	3	1	4	27	34	61
PAÍS VASCO	29	11	40	4	1	5	17	7	24	5	2	7	55	21	76
PRINCIPADO DE ASTURIAS	65	58	123	20	18	38	75	111	186	19	17	36	179	204	383
REGIÓN DE MURCIA	55	45	100	10	19	29	107	132	239	17	19	36	189	215	404
ROME	4	5	9	0	0	0	0	1	1	2	1	3	6	7	13
TOTAL	3,264	2,193	5,457	967	1,065	2,032	3,591	4,618	8,209	778	995	1,773	8,600	8,871	17,471

Staff distribution by Global Area and functional grouping

	Researcher			Researcher in training			Technician			Management / Admin. / Services			Grand Total		
	M	W	Total	M	W	Total	M	W	Total	M	W	Total	M	W	Total
SOCIETY	249	205	454	42	54	96	114	136	250	23	45	68	428	440	868
LIFE	1,726	1,296	3,022	503	750	1,253	2,114	3,261	5,375	366	420	786	4,709	5,727	10,436
MATTER	1,282	675	1,957	422	261	683	1,184	942	2,126	108	177	285	2,996	2,055	5,051
NO SPECIFIC AREA	7	17	24	0	0	0	0	0	0	0	0	0	7	17	24
CENTRAL SERVICES*	0	0	0	0	0	0	179	279	458	281	353	634	460	632	1,092
TOTAL	3,264	2,193	5,457	967	1,065	2,032	3,591	4,618	8,209	778	995	1,773	8,600	8,871	17,471

* The area assigned to research staff and trainee researchers is the staff area. The rest are assigned to the area of the ICU to which they are attached.

Source: GESPER.

Active NATIONAL scientific activity 2025

Active* projects and actions in 2025

	External			+	Internal		
	No. PROJECTS/ACTIONS	TOTAL FUNDING (€)	ANNUITY 2025 (€)		No. PROJECTS/ACTIONS	TOTAL FUNDING (€)	ANNUITY 2025 (€)
SOCIETY	207	21,907,442	4,996,127		143	7,295,013	2,691,442
LIFE	2,763	723,082,925	152,860,772		1,073	89,187,242	27,303,114
MATTER	1,410	397,477,889	60,053,124		661	80,549,722	15,959,488
CENTRAL SERVICES	11	7,114,667	664,667		40	55,007,216	5,404,026
TOTAL	4,391	1,149,582,922	218,574,689		1,917	232,039,193	51,358,069

* Data that includes the number of projects and actions approved and completed in the year.

Projects and actions approved in 2025

	External			+	Internal		
	No. PROJECTS/ACTIONS	TOTAL FUNDING (€)	ANNUITY 2025 (€)		No. PROJECTS/ACTIONS	TOTAL FUNDING (€)	ANNUITY 2025 (€)
SOCIETY	61	7,076,400	3,802,745		65	3,353,652	1,609,218
LIFE	549	129,353,761	96,907,430		552	31,064,153	16,138,157
MATTER	284	65,733,500	40,140,275		282	15,799,748	7,861,351
CENTRAL SERVICES	3	577,667	577,667		6	1,600,000	529,140
TOTAL	897	202,741,328	141,428,117		905	51,817,553	26,137,866

Projects and actions completed in 2025

	External			+	Internal		
	No. PROJECTS/ACTIONS	TOTAL FUNDING (€)	ANNUITY 2025 (€)		No. PROJECTS/ACTIONS	TOTAL FUNDING (€)	ANNUITY 2025 (€)
SOCIETY	42	2,945,615	48,017		49	618,086	181,891
LIFE	843	167,787,479	11,511,107		503	17,629,409	6,021,366
MATTER	510	107,831,478	1,884,386		271	29,626,015	2,572,162
CENTRAL SERVICES	3	628,667	428,667		6	13,870,177	183,219
TOTAL	1,398	279,193,238	13,872,176		829	61,743,686	8,958,639

* Source: BDC: the Global Area assigned corresponds to that of the project.



Active projects, according to Global Area

	External Funding		
	No. PROJECTS	TOTAL FUNDING (€)	ANNUITY 2025 (€)
SOCIETY	198	21,737,955	4,943,941
LIFE	2,710	719,989,995	152,300,104
MATTER	1,386	396,689,789	59,877,374
NO SPECIFIC AREA	10	6,859,667	409,667
TOTAL	4,304	1,145,277,405	217,531,085

Active projects, according to R&D programmes

	External Funding		
	No. PROJECTS	TOTAL FUNDING (€)	ANNUITY 2025 (€)
NATIONAL PLAN	3,299	758,867,818	154,315,132
CCAA	605	108,943,346	23,007,567
FIS	22	4,455,373	1,092,312
OTHER	378	273,010,867	39,116,074
TOTAL	4,304	1,145,277,405	217,531,085

Active actions, according to Global Area

	External Funding		
	No. PROJECTS	TOTAL FUNDING (€)	ANNUITY 2025 (€)
SOCIETY	9	169,487	52,187
LIFE	53	3,092,930	560,668
MATTER	24	788,100	175,750
NO SPECIFIC AREA	1	255,000	255,000
TOTAL	87	4,305,517	1,043,604

* Source: BDC: the Global Area assigned corresponds to that of the project.



Active INTERNATIONAL scientific activity 2025

Active* projects in 2025

	EU Framework Programme		EU Non-Framework Programme		International	
	No. PROJECTS	TOTAL FUNDING (€)	No. PROJECTS	TOTAL FUNDING (€)	No. PROJECTS	TOTAL FUNDING (€)
SOCIETY	49	38,144,309	8	1,254,032	18	1,189,968
LIFE	384	201,380,163	190	53,313,474	145	24,332,615
MATTER	323	176,685,282	102	43,174,104	43	10,221,819
NO SPECIFIC AREA	4	650,774	2	518,431	0	0
TOTAL	760	416,860,528	302	98,260,041	206	35,744,401

* Data that includes the number of projects started and completed in the year.

Projects initiated in 2025

	EU Framework Programme		EU Non-Framework Programme		International	
	No. PROJECTS	TOTAL FUNDING (€)	No. PROJECTS	TOTAL FUNDING (€)	No. PROJECTS	TOTAL FUNDING (€)
SOCIETY	15	10,323,295	3	531,243	5	315,486
LIFE	77	31,494,833	54	13,369,385	41	5,052,585
MATTER	64	36,294,408	27	19,572,124	13	1,143,071
NO SPECIFIC AREA	1	120,304	1	493,011	0	0
TOTAL	157	78,232,841	85	33,965,763	59	6,511,142

Projects completed in 2025

	EU Framework Programme		EU Non-Framework Programme		International	
	No. PROJECTS	TOTAL FUNDING (€)	No. PROJECTS	TOTAL FUNDING (€)	No. PROJECTS	TOTAL FUNDING (€)
SOCIETY	9	4,257,810	2	274,773	5	347,962
LIFE	74	32,835,503	32	5,103,526	47	6,404,857
MATTER	77	32,963,831	16	4,674,388	18	3,709,443
NO SPECIFIC AREA	2	476,481	0	0	0	0
TOTAL	162	70,533,625	50	10,052,687	70	10,462,262



Active projects in 2025 by programme under EU R&I Framework Programmes, other EU and International Programmes

		EU R&I Framework Programme			Other EU and International Programmes		
		H2020	HORIZON EUROPE	TOTAL FRAMEWORK PROGRAMMES	EU NON-FRAMEWORK PROGRAMME*	INTERNATIONALS	TOTAL OPEI
ACTIVE*	No. PROJECTS	126	634	760	302	206	508
	TOTAL FUNDING (€)	97,707,527	319,153,001	416,860,528	98,260,041	35,744,401	134,004,441
SIGNED	No. PROJECTS	0	157	157	85	59	144
	TOTAL FUNDING (€)	0	78,232,841	78,232,841	33,965,763	6,511,142	40,476,905
COMPLETED	No. PROJECTS	80	82	162	50	70	120
	TOTAL FUNDING (€)	51,883,754	18,649,872	70,533,625	10,052,687	10,462,262	20,514,949

* Data that includes the number of projects signed and completed in the year.

		EU Non-Framework Programme*				
		LIFE 2014-2020	INTERREG V	RFCS	OTHER	TOTAL
ACTIVE*	No. PROJECTS	36	41	7	218	302
	TOTAL FUNDING (€)	15,371,377	8,873,980	1,781,836	72,232,848	98,260,041
SIGNED	No. PROJECTS	6	16	3	60	85
	TOTAL FUNDING (€)	2,136,882	3,608,649	701,902	27,518,330	33,965,763
COMPLETED	No. PROJECTS	7	0	0	43	50
	TOTAL FUNDING (€)	1,133,920	0	0	8,918,767	10,052,687

International Projections

Number of CSIC alliances with entities from 75 countries

GERMANY	18	ETHIOPIA	1	NIGERIA	1
ANDORRA	1	PHILIPPINES	2	NORWAY	1
ANGOLA	3	FINLAND	2	NEW ZEALAND	1
ALGERIA	4	FRANCE	31	NETHERLANDS	6
ARGENTINA	13	GHANA	1	PANAMA	1
AUSTRALIA	2	GUINEA	1	PERU	6
AUSTRIA	3	GUINEA EQUATORIAL	2	POLAND	9
BELGIUM	19	GUINEA-BISSAU	1	PORTUGAL	7
BENIN	1	HONDURAS	1	UNITED KINGDOM	13
BOLIVIA	1	HUNGARY	2	REPUBLIC OF KOREA	2
BOSNIA-HERZEGOVINA	1	INDIA	6	DEMOCRATIC REPUBLIC OF THE CONGO	1
BRAZIL	22	INDONESIA	1	CZECH REPUBLIC	3
CANADA	4	IRAN	1	DOMINICAN REPUBLIC	2
CHILE	16	ISRAEL	1	ROMANIA	5
CHINA	44	ITALY	41	SERBIA	2
COLOMBIA	23	JAPAN	9	SWEDEN	3
COSTA RICA	2	KENYA	3	SWITZERLAND	4
CUBA	5	LEBANON	1	TAIWAN	1
DENMARK	3	MACEDONIA	1	TUNISIA	3
ECUADOR	5	MALAYSIA	2	TURKEY	4
EGYPT	1	MALTA	1	UKRAINE	6
UNITED ARAB EMIRATES	1	MOROCCO	8	URUGUAY	3
SLOVAKIA	1	MEXICO	20	UZBEKISTAN	2
SPAIN	91	MONACO	1	ZAMBIA	1
USA	23	MOZAMBIQUE	2	ZIMBABWE	1



Training of research staff

	Thesis			Final Degree Project (TFG)			Master's Final Project (TFM)		
	M	W	TOTAL	M	W	TOTAL	M	W	TOTAL
	Doctoral Students			Students					
SOCIETY	25	15	40	0	3	3	19	44	63
LIFE	177	210	387	102	165	267	163	236	399
MATTER	195	111	306	77	81	158	113	94	207
TOTAL	397	336	733	179	249	428	295	374	669

	Research staff managing								
	M	W	TOTAL	M	W	TOTAL	M	W	TOTAL
SOCIETY	23	10	33	1	1	2	40	26	66
LIFE	337	196	533	162	178	340	286	247	533
MATTER	332	129	461	104	94	198	170	117	287
TOTAL	692	335	1,027	267	273	540	496	390	886

* There may be research staff who have directed more than one thesis and theses that have been co-directed by more than one researcher.

917 Scholarship JAE Intro*

	M	W	TOTAL
SOCIETY	35	52	87
LIFE	188	312	500
MATTER	193	137	330

* Includes all the modalities "ICU".





Contents



We do science



Science for society



Support structures for research activity



Institutional relations and scientific collaboration



CSIC 2025, a year in figures



Annexes

