BiosferTeslab

Advancing testing

At **Biosfer Teslab**, we are pleased to launch the first edition of our quarterly newsletter—a new space where we will regularly share the progress, projects, and milestones that shape our journey in health innovation.

This first quarter of 2026 has been marked by significant achievements, including **new scientific publications**, **progress** in **strategic projects** such as CardioSCOPE and TB-omics, active **participation** in **key industry** events, and the continued growth of our team with new talent.

All of this reflects our strong commitment to research, collaboration, and knowledge transfer.

With this newsletter, we begin a more consistent and closer way of staying connected, looking forward to continuing this journey together in the upcoming editions.

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Scientific Publications T1 2026

1: Kardassis D, Amigó N, Mitić T. Limitations of current animal models in atherosclerosis: an integrative multiomics perspective. Eur Heart J. 2026 Jan 20:ehaf997. doi: 10.1093/eurheartj/ehaf997

European Heart Journal

ESC European Society of Cardiology

2: García-Hidalgo MC, Mota-Martorell N, González J, Benítez ID, Company-Marín I, Jové M, Barbé F, Amigó N, Pamplona R, de Gonzalo-Calvo D, Torres G. Multilayer metabolomic integration reveals bioenergetic disruption in Long COVID. J Transl Med. 2026 Jan 20;24(1):237. doi: 10.1186/s12967-026-07684-3.

BMC Journal of Translational Medicine

3: Di Giacomo Barbagallo F, González-Lleó A, Amigo N, Bosco G, Ibarretxe D, Piro S, Scicali R, Masana L. Prevalence of elevated lipoprotein(a) levels and associated atherosclerotic cardiovascular diseases in subjects with metabolic disorders: A real-world study in a lipid unit. Clin Investig Arterioscler. 2026 Jan 24:500892. English, Spanish. doi: 10.1016/j.arteri.2026.500892.

Clínica e Investigación en Arteriosclerosis

4: Cuevas-Sierra A, Higuera-Gómez A, de Cuevillas B, Amigó N, Martínez-Urbistondo M, Castejón R, Vargas JA, Martínez JA. Disease-specific crosstalk of Alistipes with lipoprotein profiles in overweight individuals at high cardiometabolic risk. Sci Rep. 2026 Feb 13. doi: 10.1038/s41598-026-36024-0

SCIENTIFIC REPORTS

5. Pavón R, Parra S, Rubio FJ, Feliu M, Ríos M, Iftimie S, Rovira C, Amigó N, Cabau L, Martínez-Micaelo N, Castro A. Assessment of physical status and analysis of lipidomic and metabolomic alterations in patients with Post-COVID-19 condition. PLoS One. 2026 Mar 3;21(3):e0341192. doi: 10.1371/journal.pone.0341192.

PLOS One

Advancing Our Projects

AGENCIA ESTATAL DE INVESTIGACIÓN

TB omics – Innovative software for tuberculosis diagnosis based on urinary biomarkers. Public–Private Collaboration Project – AEI.

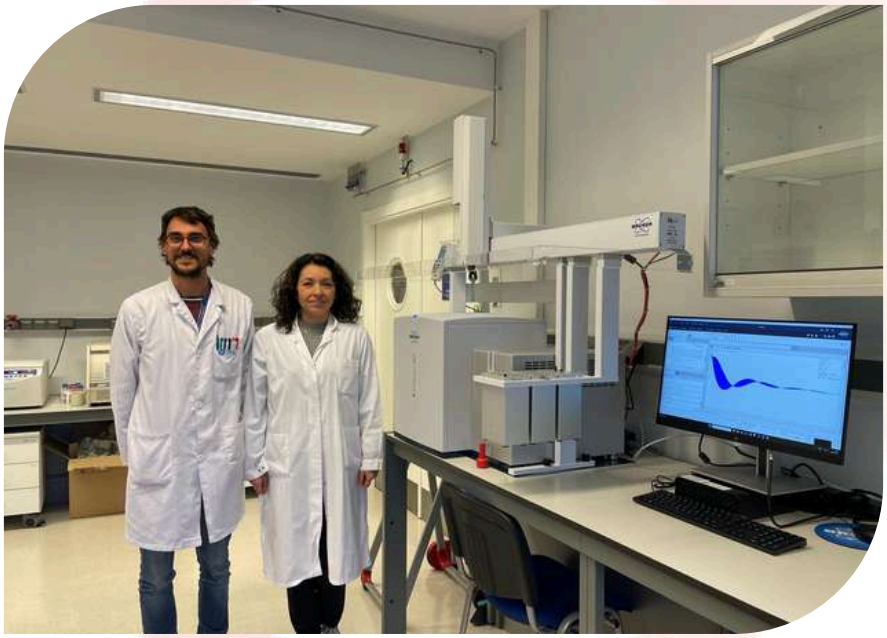
MINISTERIO DE CIENCIA, INNOVACIÓ Y UNIVERSIDADES

We have officially kicked off the **TB-OMICS** project, marking the beginning of this collaborative initiative focused on developing an innovative diagnostic tool based on urinary biomarkers.

CDTI

DALI Project – Development of a NMR-Based Metabolomics Colorectal Cancer Screening for Clinical Implementation. PERTE INTERNACIONAL – CDTI.

COMPREMETE Project – Development of an Advanced Screening Tool Based on Metabolomics and Electro-Histerography for early Detection of Preterm Birth Risk. PERTE INTERNACIONAL – CDTI.



Our projects continue to move forward, achieving important milestones and driving innovation through ongoing collaboration and research efforts.

Students & Early Talent

The integration of students into Biosfer reflects our commitment to emerging talent and hands-on learning. Through this initiative, we not only provide students with the opportunity to develop their skills in a real-world environment, but also enrich our team with fresh perspectives, new ideas, and an innovative energy that drives our continuous growth. We strongly believe in shared learning and in creating opportunities that generate value both for the professional development of young talent and for the advancement of our sector.

I'm **Alba Fernández**. I'm a student in my first year of the Higher Vocational Training program in Marketing and Advertising. I've always been interested in everything related to managing a company's marketing, and I'm delighted to be able to put into practice everything I've learned at Biosfer Teslab.

I'm **Agnès Callarisa**, a chemist currently studying a Master's degree in Health Chemistry and Biochemistry. I started my internship at Biosfer Teslab in February and will be here until June. I'm passionate about chemistry, but I've always had a strong interest in health sciences, and this internship allows me to combine both fields.

I'm **Xènia Garcia**, a student in the Higher Vocational Training program in Clinical Laboratory at Institut Cal·lípolis in Tarragona. I will be doing my internship at Biosfer Teslab; I started in February and will be there until May, learning the techniques we have been taught in class.

UNIVERSITAT ROVIRA i VIRGILI

baix camp

CAL·LÍPOLIS Institut

Cardioscope Project

The European project **CardioSCOPE**, funded by the **Marie Skłodowska-Curie Actions (Horizon Europe**), promotes international collaboration in cardiovascular research. One of its key components is the exchange of researchers among the institutions participating in the consortium, including universities, hospitals and companies from several European countries. Through temporary research stays (secondments), researchers work at partner institutions to learn new methodologies and share expertise. This mobility scheme supports knowledge transfer between basic, clinical and technological research. It also contributes to the training of researchers in an international and interdisciplinary environment. Overall, the project fosters innovative approaches to improve the diagnosis and prediction of cardiovascular diseases.

RESEARCHERS WHO HAVE COMPLETED THEIR SECONDMENTS

CardioSCOPE
Empowering scientists for the "omics" era

Marie Skłodowska-Curie Actions

Cardioscope Project

INCOMING SECONDED RESEARCHERS

"I am Dr. **Martina Mutoli**, a research biologist and third-year PhD student in Life Sciences and Biotechnology at the University of Insubria, with 5 years of experience in translational cardiovascular research at IRCCS MultiMedica under Dr. Gaia Spinetti. My work focuses on the crosstalk between immune and cardiovascular cells in atherosclerosis, with a particular interest in the role of $CD34^+$ hematopoietic stem/progenitor cells (HSPCs) and the mechanisms associated with plaque instability.
I am thrilled to start a 6-month international mobility at Biosfer Teslab in Reus, Spain, as part of the European CardioSCOPE project under Nuria Amigo. This experience will allow me to expand my skills in NMR spectroscopy and metabolomics, integrate them with my expertise in transcriptomics,
flow cytometry, and functional analyses, and gain international research experience while contributing to cutting-edge projects! "

"My name is **Fabiola Castaldo**. I hold an MSc in Pharmacy from the University of Naples. Following my graduation, I worked as a research fellow at the University of Ferrara, where I was involved in a project investigating the nutritional status of the Sahrawi population and its health implications, also participating in humanitarian missions. I am currently a second-year PhD student in Experimental Pharmacology. My main research interests focus on postprandial metabolism, Type 2 diabetes, and its cardiovascular complications. I have experience in molecular biology laboratory techniques as well as in the organizational management of research projects. Alongside my doctoral studies, I work as a Clinical Research Coordinator at Sant'Anna Hospital in

"Dear all, My name is **Esposito Francesco Maria**. I have a Master's degree in Pharmaceutical Biotechnology from the University of Milan. I subsequently earned a Master's degree in Pharmacy and Oncological Pharmacology from the same university. I passed the state exam and am licensed to practice as a biologist and registered with the professional association. I have been actively working as a researcher in the cardiovascular field since 2019. I have knowledge and proficiency in the main in vitro and in vivo molecular biology techniques. Since 2023, I have been employed at the IRCCS Multimedica in Milan in Professor Catapano's laboratory."

CardioSCOPE
Empowering scientists for the "omics" era

Marie Skłodowska-Curie Actions

Welcome to the team

Industrial PhD – Integration of genomic and metabolomic data for the stratification of weight gain. Industrial Doctorate Programme (AEI/MICIU).

My name is **Jara Ballestín**, and I hold a degree in Molecular Cell Biology from the University of Sheffield, as well as a Master's in Bioinformatics and Biostatistics from the Universitat Oberta de Catalunya.
I have worked as a researcher in Synthetic Biology at the University of Freiburg and gained six years of experience in bioprocessing of monoclonal antibodies at Allergan Biologics (Liverpool) and oncolytic viruses at ViraTherapeutics (Innsbruck).
I have developed a strong interest in data-driven research, and I am now starting a PhD at Biosfer Teslab. My project will focus on integrating metabolomics and genomics data to better understand disease-related biological processes and improve diagnosis.

My name is **Cristina Zincu**, and I am a laboratory technician in analysis and quality control from IES Comte de Rius, with experience in the chemical, metallurgical, and in vitro diagnostics sectors.
I have worked with a wide range of matrices, from wastewater and chemical raw materials to complex biological samples. My career has allowed me to work with a great variety of instrumental techniques, from gas chromatography and spectroscopy to nuclear magnetic resonance and Elisa assays.
My complementary training includes the VDA 6.3 Process Auditor certificate, Automotive Core Tools (such as SPC, MSA, FMEA), and problem-solving methodologies (8D, 6M, 5W). This allows me to contribute a perspective oriented towards continuous improvement and process optimization.
My goal is to continue growing in the field of quality control, advanced analytics and process improvement, contributing value and rigor to every project."

Events and conferences T1 2026

22-01-2026: Our CEO, **Núria Amigó,** appeared before the Health Committee of the Parliament of Catalonia to discuss the risks of childhood obesity and its impact on both mental and cardiovascular health.

5-03-2026: Our COO, **Sara Samino** took part in MWC26 as a finalist at the AI for Good Innovation Factory. This global initiative brings together innovative projects using AI to improve healthcare. An initiative led by the International Telecommunication Union (ITU) and hosted by the Generalitat de Catalunya.

5-03-2026: Our Data Scientist, **Pol Torné** participated in HealthTransfer (Where research becomes Spin-Offs) during MWC week, showcasing how research can become real healthcare solutions.
An event organized by Institut Català de la Salut and Fundació Tic Salut Social.

26-02-2026: Our CEO, **Núria Amigó**, delivered a talk at the XULA Cohesió scientific session, an initiative focused on fostering knowledge exchange in lipid and cardiovascular research, titled "Multi-omics integration in menopause: identification of cardiovascular risk biomarkers." **https://www.soc-xula.org/cohesio-xula**

05/06-03-2026: Part of the Biosfer Teslab team attended the XXI Conference on Hypertriglyceridemia and the XII Meeting of Lipid Units in Murcia, a key event bringing together experts to discuss the latest advances in lipid disorders and cardiovascular risk management.

THANK YOU FOR BEING PART OF OUR JOURNEY. TOGETHER, WE CONTINUE TRANSFORMING SCIENCE INTO IMPACT. WE LOOK FORWARD TO SHARING MORE WITH YOU IN THE NEXT EDITION.

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