BioLaMer NEWSLETTER

European Innovation Council

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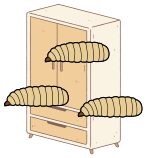
June 2026 | Sixth Edition

BioLaMer is pleased to welcome you to the sixth edition of our newsletter

As the BioLaMer project draws to a close, we are pleased to reflect on the achievements, impacts, and key activities that have emerged from the project.

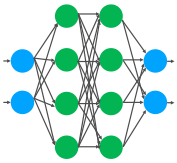


A scalable prototype for larvae cultivation from mixed food waste

Extraction of Chitosan from larvae shells

Environmental performance and cost assessment of the BioLaMer biorefinery

Larvae biomass to PHA biorefinery



A widely adaptable Physics-Informed Neural Network (PINN) model for optimizing PHA production

Policy Report on Bioplastics: Stakeholder perceptions and consortium recommendations

BioLaMer Policy Insights

Our BioLaMer policy document is now freely accessible on Open Research Europe, offering evidence-based policy recommendations to accelerate bioplastics adoption.

Read the full article here

BioLaMer Progress and Impact

The project has contributed to :

- **2** Patent Applications
- **6** Peer-reviewed Open Access Journal Publications
- **55** Conference/ Event Dissemination
- **1** Policy Document
- **2** Invited Talks
- **2** Book Chapter
- Won **3** Poster Awards
- **1** Best Master's Thesis Award
- Identified **6** Key Exploitable Results
- Trained **4** PhD's, **7** Undergraduates, **6** postdocs, **5** Master students and **3** research Assistants and **1** ERASMUS student.

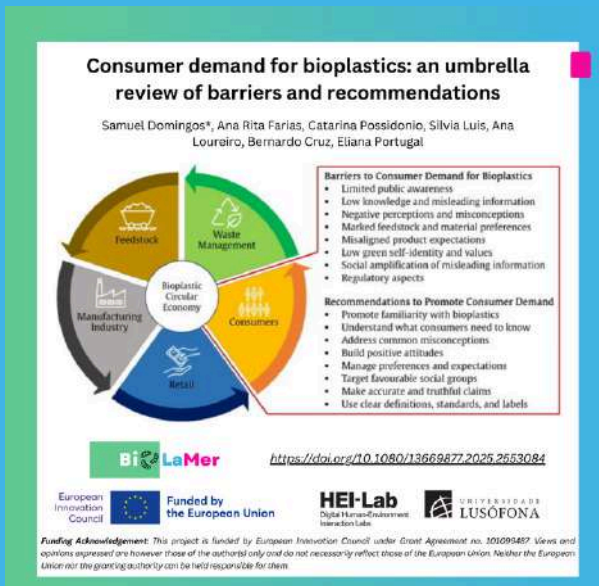
BioLaMer project has achieved significant outcomes, with all non-IP-related results made openly accessible through repositories and the project website.

Research Publication

BioLaMer partner **COFAC** has published the research article in the *"Journal of Risk Research"*, titled "**Consumer demand for bioplastics: an umbrella review of barriers and recommendations**".

This review explores challenges to consumer acceptance of bioplastics highlighting key barriers such as limited awareness, misconceptions, and regulatory complexities, while providing evidence-based recommendations to boost adoption.

Access the complete article here



Final Consortium Gathering

BioLaMer consortium came together for its in-person meeting on 8th –9th January 2026 at NOVA School of Science and Technology (NOVA-FCT), Caparica, Portugal, marking an important milestone as the project enters its concluding phase.

The meeting served as a key platform for focused discussions on project alignment, exploitation strategies, risk assessment, and mitigation measures, ensuring the project remains on track and well-positioned for its final outcomes.

A key highlight was a laboratory visit featuring demonstrations of PHA bioreactors and the supercritical CO_2 extraction process carried out by the NOVAID FCT team.

Flash Talk

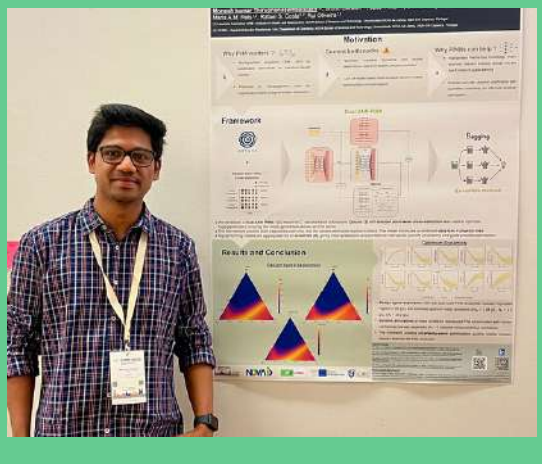
BioLaMer Project partner **Monesh Kumar** from **NOVAID FCT** participated and presented at the the 5th ECCE, 8th ECAB and 3rd CIBIQ, held in Lisbon from 8th - 10th September 2025.

His flash talk titled "**Physics-Informed Neural Network: A Paradigm Shift in Bioprocess Digitalization?**" highlighted the project's innovative approach to digital bioprocessing and its potential to revolutionize the future using PINN models.

Oral Presentation

BioLaMer LCA partner **Floriana Coppola** from **UNIBO** represented the project at the XXI National Congress of the Division of Environmental & Cultural Heritage Chemistry of the Italian Chemical Society in Cremona, Italy , from 10th - 13th September 2025.

Her oral presentation on "**Simplified Approaches for Assessing the Environmental Sustainability of Bio-based Materials at Early Development Stages**" showcased the challenges of assessing the environmental sustainability of the coating process at early development stage, illustrating a complementary approach based on the application of different tools.

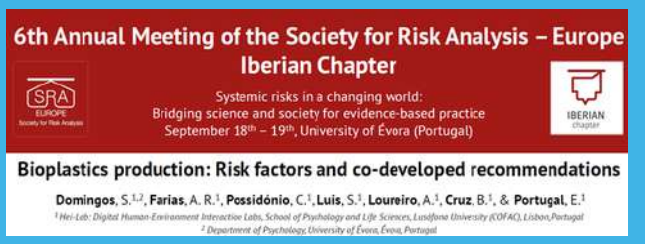


Poster Presentation

BioLaMer project partner **Monesh Kumar** from **NOVAID FCT** presented an engaging poster on "**Physics-Informed Neural Network (PINN) Framework for Batch-to-Batch Control of PHA Production**" at the 12th European Symposium on Biopolymers, held in Lisbon from 1st - 3rd October 2025, highlighting an innovative approach to optimizing bioreactor processes for more efficient and sustainable biopolymer production.

Public Outreach

BioLaMer partner **Samuel Domingos** from **COFAC** presented a poster at the 6th Iberian Chapter Conference of the Society for Risk Analysis – for Europe (SRA-E Iberian) held at the University of Évora, Portugal, held from 18th -19th September 2025.


6th Annual Meeting of the Society for Risk Analysis – Europe
Iberian Chapter
Systemic risks in a changing world:
Bridging science and society for evidence-based practice
September 18th – 19th, University of Évora (Portugal)
Bioplastics production: Risk factors and co-developed recommendations
Domingos, S.[1,2], Farias, A. R.[1], Possidónio, C.[1], Luis, S.[1], Loureiro, A.[1], Cruz, B.[1], & Portugal, E.[1]
[1] Hei-Lab: Digital Human-Environment Interaction Labs, School of Psychology and Life Sciences, Lusófona University (COFAC), Lisbon, Portugal
[2] Department of Psychology, University of Évora, Évora, Portugal

His poster highlighted key risk factors and barriers in bioplastics production, offering co-developed recommendations to support safer and more sustainable commercialization.

European Researchers Night

BioLaMer project partners brought science to life during European Researchers' Night on 26th September 2025 across Bologna, Dublin, and Lisbon, engaging communities through interactive activities and showcasing innovative circular biopolymer solutions for a sustainable future.

Bologna - Serena Righi, Floriana Coppola & Shamraiz Ahmad (University of Bologna)

Dublin - Sivakumar Krishnan (Trinity College Dublin)

Lisbon - Mónica Carvalheira (NOVAID)

Networking Event

BioLaMer project was showcased at **Rail Link Networking Event,** held on 30th September 2025 at RDS Dublin, where partners **Sibu Padmanabhan** and **Sivakumar Krishnan** from **Trinity College Dublin,** and **Eniya Mariappan** from **SocLineTech** presented the projects objectives, progress and sustainable solutions, while engaging visitors through networking and the display of the key biopolymer samples.

Inauguration of Barcelona Circular

BioLaMer project was presented at the inauguration of Barcelona Circular on 30th October 2025, where partners from **TransfoLAB BCN** showcased the project's bioreactor system and circular process through posters and samples, engaging a wide audience including public stakeholders, students, and the Mayor of Barcelona, and highlighting its role in advancing sustainable innovation and urban circularity.

European Week of Waste Prevention

BioLaMer project partners **Neda Tozija** and **Nada Tozija**, **TransfoLab BCN** contributed to the European Week of Waste Prevention 2025 by hosting an open day on 27th November 2025, demonstrating the larvae cultivation system and circular process to the public and this event was recognised in the official *press release* by the Catalan Agency for Waste.

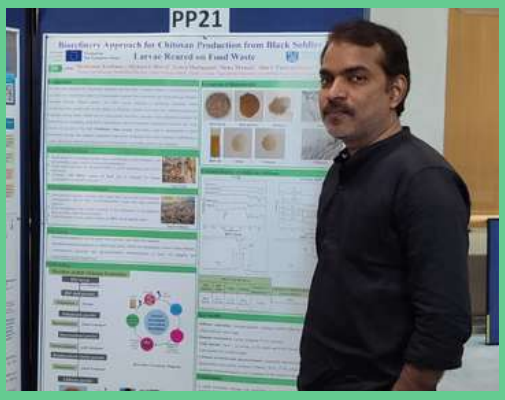
Outreach Event

Serena Righi and **Floriana Coppola** from the **University of Bologna** hosted a communication and outreach event at the Ravenna Campus on 27th November 2025, engaging around 100 students, researchers, and faculty members in the Aula Magna of the Scientific Centre.

The session showcased **BioLaMer**'s approach of converting food waste into sustainable biopolymers using Black Soldier Fly larvae, highlighting the scientific principles, environmental benefits, and circular-economy impact.

BioLaMer at IFSTI

BioLaMer partners **Sibu Padmanabhan** and **Sivakumar Krishnan** from **AMBER Centre, Trinity College Dublin**, presented a poster titled "**Biorefinery Approach for Chitosan Production from Black Soldier Fly Larvae Reared on Food Waste**" at the 53rd IFSTI Annual Food Science and Technology Conference from 22nd – 23rd January 2026 at Technological University Dublin, Ireland.



Poster Award Winning

Roshanak Agharafeie from **NOVAID**, a **BioLaMer** team member, received the Best Poster Award in Chemical Engineering at the 15th ECCE for her research on a hybrid semiparametric approach combining PDEs and machine learning to model supercritical carbon dioxide extraction.

Among 700 posters across ECCE, ECAB, and CIBIQ, her work stood out, highlighting BioLaMer's commitment to innovative, high-impact scientific research.

Best Thesis Award

Riccardo Morsiani from **UNIBO,** recieved the Best Thesis Award from the **Cecilia Bellezza Association** for his Master's thesis on the Life Cycle Assessment (LCA) of the **BioLaMer** project.

As BioLaMer comes to a close, we extend our sincere gratitude to all partners, stakeholders, and the European Commission for their trust and continued support. We also warmly thank our readers for following and engaging with the project, and every team member whose collaboration, dedication, and willingness to support one another made this journey truly impactful. While the project concludes, its results remain open - inviting you to explore, build upon, and carry them forward into future innovation.

BioLaMer Partners


Dr Sibu Padmanabhan – Project Coordinator
Prof. Michael Morris – Co-Investigator
Advanced Materials and BioEngineering Research(AMBER) Centre & School of Chemistry, Trinity College Dublin, Dublin, Ireland

Prof Serena Righi – Associate Professor
ALMA MATER STUDIORUM- UNIVERSITA DI BOLOGNA- UNIBO, Italy

Dr Jorge Santos - CEO
AquaInSilico LDA, Lisbon, Portugal

Dr Ana Rita Farias
HEI-Lab Digital Human-Environment Interaction Lab, COFAC, Lusofona University, Lisbon, Portugal


Prof Rui Oliveira - Associate Professor
Prof Maria Reis - Full Professor
NOVAID FCT, Lisbon, Portugal

Ms Neda Tozija – Co founder
TransfoLAB BCN (Centre for trash investigation), Barcelona, Spain

Ms Nisha Thomas - Director
Soclinetech Solutions & Services, Cork, Ireland

Thank You

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https://biolamer.eu/

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