

Welcome to the Second TwInn4MicroUp Newsletter

Stay Updated on the Latest News!



[Watch Me On YouTube!](#)

🌍 Building on our mission to tackle plastic pollution through innovation, **TwInn4MicroUp** is proud to share the progress we've made so far. From strengthening our research capacities to advancing cutting-edge solutions in Synthetic Microbial Biotechnology, our journey is already delivering impactful results.

🚀 In this edition, we highlight key achievements, milestones, and collaborations that are shaping our path toward a sustainable, bio-based future.

Find Out More!

# Our Achievements

## Awards 🏆



We are proud to highlight recent recognitions that reflect the scientific excellence and impact of the **TwInn4MicroUp** project :

🎤 **Zeliha Ece Özçelik (TUS)** delivered an oral presentation titled *"From Light to Heat: Sustainable Photothermal Polymers for Future Smart Textiles"*, alongside presenting a poster on Global Polymer Sustainability & Innovation Summit (GPSIS) 2025. Her work, focused on sustainable and circular materials, was recognized with a **Recognition Award for Best Oral Presentation.**

🖋️ **Monica Squicciarini (UNIBA)** presented a poster titled *"Adaptive laboratory evolution of *Yarrowia lipolytica* for efficient lactate utilization"*, at the Yeast in the Bioeconomy Conference (YBC) 2025. Her contribution was honored with the **Best Poster Award**, emphasizing the strength of research at the interface of academia and industry.

## Scientific Publications

Polyester-derived monomers as microbial feedstocks: Navigating the landscape of polyester upcycling (NTUA)

[Read Me](#)

Microbial Spore-Based Biocatalysts: Properties, Applications and New Trends (IMGGE)

[Read Me](#)

Acetate co-feeding increases ethylene glycol assimilation and glycolic acid production in *Yarrowia lipolytica* (UNIBA)

[Read Me](#)

The plastic-degrading capabilities of *Pseudomonas aeruginosa* (IMGGE)

[Read Me](#)

Development of a Tool for High-Efficiency, Markerless and Iterative Genome Editing in *Shouchella clausii* (UNIBA)

[Read Me](#)

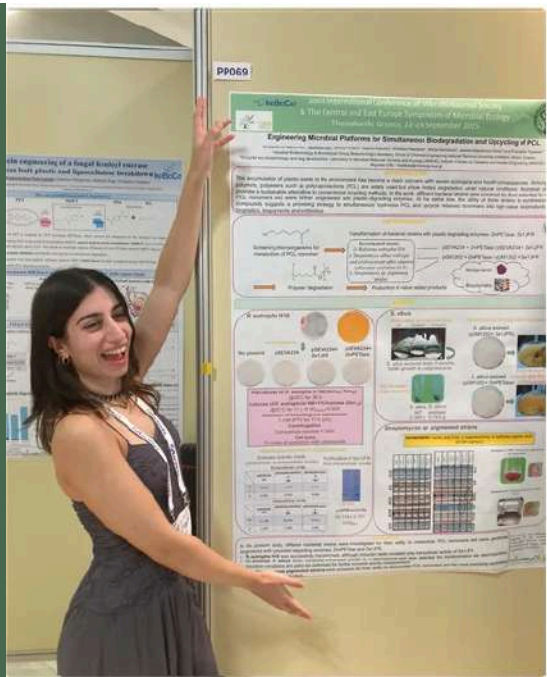
## **Communication & Dissemination Activities**



The **Mikrobiokosmos & CEESME Conference 2025** brought together scientists, students, and industry representatives from Greece and beyond to exchange knowledge and showcase the latest advancements in microbial sciences.

🚀 The **Twinn4MicroUp** team, represented by NTUA, UNIBA, and IMGGE, made a strong contribution through a series of oral and poster presentations.






Notably, the conference opened with a **dedicated session organized by the TwInn4MicroUp project**, focused on career development and funding acquisition, highlighting its central role within the event.

The event served as a dynamic platform for networking and collaboration, reinforcing connections between academia, research institutions, and industry, while highlighting the crucial role of microbiology in addressing global sustainability challenges.

🎤 **Gennaro Agrimi** presented *"Biocatalytic Depolymerization and Upcycling of Plastics Using Engineered Yarrowia lipolytica,"* while

**Efstratios Nikolaivits** shared insights into enzyme classification in *"Distinguishing Suberinases from Cutinases."*

 Poster presentations showcased a wide range of innovative research, including contributions from **Christina Ferousi**, **Eugenia Messina**, **Marijana Ponjavic** and **Sanja Skaro Bogojevic**, as well as **Jelena Milovanovic**, **Konstantinos Makryniotis**, **Katerina Foka**, and **Markella Papi**. Their work covered topics ranging from plastic waste upcycling and metabolic engineering to advanced biomaterials and enzyme design.

### **Special Issue Opportunity**

Selected contributions from the Mikrobiokosmos Conference will be featured in a Special Issue of Biotech for the Environment. This initiative offers additional visibility to the research presented at the conference and strengthens its scientific impact.

 Journal homepage: <https://link.springer.com/journal/44314>

 Special issue collection:

<https://link.springer.com/collections/dddidjchfd>

---

**Other events attended by TwInn4MicroUp team**



Since September 2025, project partners have actively participated in a range of outreach and scientific engagement events:

- **IMGGE**
  - TV show appearance
  - International Book Fair
  - Open Days
- **TUS**
  - TUS Green Week

- Pint of Science 2026
  - **NTUA**
    - Second Student Conference on Biotechnology
    - Researchers' Night 2025
    - Athens Science Festival – The Christmas Lab
  - **UNIBA**
    - European Biotech Week – B Factor
- 

# Join the MicroUp Hub

Join

We welcome researchers, educators, innovators, companies, policymakers, and institutions from all sectors to be part of the MicroUp Hub.

Together, we share a vision for advancing scientific knowledge, supporting circular economy solutions, protecting the environment, and promoting sustainable innovation in line with the UN Sustainable Development Goals.

---

# Summer School on Microbial

Register

# Synthetic Biology

**Registrations are open now!**

The summer school offers a focused introduction to its most exciting advances. Participants will explore microbial engineering for sustainability and medicine, genome mining and bioinformatics for discovering new biosynthetic pathways, and state-of-the-art CRISPR technologies for developing improved microbial strains.

**June 17-19, 2026**

**University of Bari, Italy**



## **Twinn4MicroUp**

Twinning Innovation Hub  
for Microbial Platforms  
in Plastic Upcycling

You received this email because you signed up on our website.

[Unsubscribe](#)

