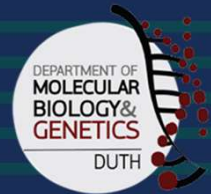


Summer School Technical Workshop



 Alexandroupolis,
Greece

 6-7 May 2026

Submit here:



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Innovating Biotechnology for a Sustainable and Resilient Future

Training Objectives

The Summer School aims to provide interdisciplinary training on microbial biotechnology, genomic tools, and sustainability assessment approaches relevant to climate change adaptation and sustainable agri-food systems. The program combines expert lectures, interactive sessions, industry perspectives, and hands-on laboratory modules to strengthen participants' skills in emerging biotechnological and environmental research approaches.

Program

Day 1 - Scientific Lectures & Industry Perspectives

Exploring the Crossroads Between Synthetic Biology and Environmental Sustainability

Wednesday, 6 May 2026

Location: Grecotel Egnatia, GR 68132, Egnatia Park, Alexandroupolis

Time	Session
08:30-09:00	Registration
09:00-09:10	Welcome and Opening
09:10-09:45	Introduction to the TOLERATE Project - Pablo Nickel (DTU)
09:45-10:30	How to Design Cell Factories - Daniel Volke (DTU)
10:30-11:15	Design Your Own Cell Factory (Interactive Exercise) - Daniel Volke (DTU)
11:15-11:30	Coffee Break
11:30-12:15	Ancient DNA: Principles and Applications in Climate Change Research - Amedea Perfumo (CNRS)
12:15-13:00	Digging into DNA: Phylogenetic Characterization of Soil Bacteria - Ibrahim Banat (Ulster)
13:00-14:00	Lunch Break
14:00-14:45	Molecular Dynamics Simulations and Their Role in Protein Chemistry - Stephen Euston (HWU)
14:45-15:30	Biomolecular NMR Spectroscopy in Structural Biology and Drug Design - George Spyroulias (UPAT)
15:30-15:45	Coffee Break
15:45-16:30	Assessing Environmental Sustainability: From Life Cycle Assessment (LCA) to Practical Applications - Maria Doula (Benaki Phytopathological Institute - OMNIA)
16:30-17:15	Regulating Microorganisms in the EU's Transition to Sustainable Agri-Food Systems - Mirta Alessandrini & Francesco Montanari (WU)
17:15 - 17:30	Coffee Break
17:30 - 19:00	Technical Workshop - Towards a resilient EU through training the next generation of scientists and experts (MOLKIM) <ul style="list-style-type: none">○ Short introduction of each industrial partner and its main activities○ R&D focus in bio-based solutions○ Experiences and challenges in industrial implementation○ Insights and advice for students interested in a career in the industry○ General discussion (Participants: MOLKIM, BIOFAB, BCE, ETS)
19:30	End of Day 1
20:00	Networking Dinner

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Program

Day 2 - Hands-on Training Modules

Practical Applications in Microbial Genomics and Biotechnology

Thursday, 7 May 2026

Location: Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis

Time	Session
09:00-09:15	Introduction to the Department of Molecular Biology and Genetics (DUTH)
09:15-11:00	Module 1 - Ancient DNA Analysis: Principles and Applications in Climate Change Research (Ugur Cabuk, AWI)
11:00-11:15	Coffee Break
11:15-13:00	Module 2 - Soil Microbial Identification: Genetic Toolkits for Characterizing Soil Bacteria (Ibrahim Banat, ULSTER)
13:00-14:00	Lunch Break
14:00-15:45	Module 3 - Microbiome / Rhizobiome Community Analysis (Despina Evgenia Kioussi, Alex Galanis, DUTH)
15:45-16:00	Coffee Break
16:00-17:45	Module 4 - Flow Cytometry Applications in Bioactivity Assessment (Antreas Ermogenous, Aglaia Pappa DUTH)
17:45-18:30	Interactive Demonstration - Immersive Molecular Visualization Using Nanome (Vasiliki Fadouloglou, DUTH)
18:30-19:00	Closing Remarks & Certificate Distribution
19:00	End of Day 2



Thank you!



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