

16-20 June 2025

Pharm-ERA Doctoral Network

<https://pharm-era.hub.inrae.fr/>

Summer School

AquaBioTech Group
(Malta)



**Theory and practice in environmental chemistry, ecotoxicology
and risk assessment: Transfer from science to end-users**



Responsible persons: Stéphane PESCE (INRAE), Adrian LOVE (AQUABIOTECH),
Benoît FERRARI (ECOTOX CENTRE), Emilie EGEA (INRAE)

MONDAY, June 16 2025		
8:45 - 9:00	Registration and Welcome Coffee	
9:00 - 9:30	Introduction to the Pharm-ERA Doctoral Network and PhD Student Presentations	Emilie EGEA - INRAE (on site)
Session 1: Introduction & Ecotoxicological Testing		
9:30 - 10:10	Current Topics in Environmental Risk Assessment of contaminated Ecosystems	Alexandra KROLL - ECOTOX CENTRE (online)
10:10 - 10:50	Aquatic Ecotoxicity Testing	Cornelia KIENTLE - ECOTOX CENTRE (online)
10:50 - 11:05	Break	
11:05 - 11:45	Sediment Ecotoxicity Testing	Carmen CASADO-MARTINEZ - ECOTOX CENTRE (online)
11:45 - 12:25	Animal alternatives in ecotoxicology: global status and on-going developments	Marco FRANCO - EAWAG (online)
12:25 - 13:55	Lunch break	
13:55 - 16:45	Practical Session: Launch of Copepod and Artemia Tests	Marina MARITATI - AQUABIOTECH (on site)
16:45 - 17:00	Group debrief	Emilie EGEA - INRAE (on site)
17:00 - 19:30	Pharm-ERA Students Outreach Activities: Video Production Session	Emilie EGEA - INRAE (location to be defined)



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TUESDAY, June 17 2025		
8:40 – 8:50	Welcome	Emilie EGEA - INRAE (on site)
8:50 – 9:30	Soil Ecotoxicity Testing	Mathieu RENAUD - ECOTOX CENTRE (on site)
9:30 – 12:30	Practical Session: Launch of the Enchytraeid Avoidance Test	Mathieu RENAUD, Emmanuelle ROHRBACH - ECOTOX CENTRE (on site)
12:30 – 14:00	Lunch break	
Session 2: Working in the Private Sector – Regulatory Compliance		
14:00 – 15:30	Good Laboratory Practices (GLP), Quality Assurance, Traceability, and Data Management	Joseph MUSCAT - AquaBIOTECH (on site)
15:30 - 15:45	Break	
15:45 – 16:45	Practical Session: Copepod and Artemia Test Results	Marina MARITATI - AQUABIOTECH (on site)
16:45 – 17:00	Group debrief	Emilie EGEA - INRAE (on site)
18:00 – 21:00	Science-Society Event Organized by the Pharm-ERA Students	Pharm-ERA Students (Valetta Design Cluster)
WEDNESDAY, June 18 2025		
8:30 – 8:40	Welcome	Emilie EGEA - INRAE (on site)
Session 2: Working in the Private Sector – Regulatory Compliance		
8:40 – 10:10	Ecotoxicological Tests in Regulatory Contexts: Applications in Modelling	Paul THOMAS – KREATIS (online)
10:10 – 10:25	Break	
10:25 – 12:15	Guided Tour: AQUABIOTECH Aquatic Research Facilities	To be defined - AquaBIOTECH (on site)
12:15 – 13:45	Lunch break	
13:45 - 16:45	Practical Session: Interpretation of Copepod and Artemia Test Results	AQUABIOTECH (on site)
16:45 – 17:00	Group Debrief	Emilie EGEA - INRAE (on site)
17:00 - 19:30	Pharm-ERA Students Outreach Activities: Video Production Session (continued)	Emilie EGEA – INRAE (location to be defined)
THURSDAY, June 19 2025		
8:30 – 8:40	Welcome	Emilie EGEA - INRAE (on site)
Session 3: Advances in Environmental Chemistry and Modelling for Improved Risk Assessment		
8:40 - 9:20	Introduction to Suspect and Non-Target Screening Techniques	Sandra PEREZ – IDAEA-CSIC (online)
9:20 - 10:00	Introduction to Effect-Directed Analysis (EDA)	Victoria OSORIO TORRENS - IDAEA-CSIC (online)
10:00 - 10:15	Break	
10:15 – 10:55	TyPol: A Methodology for Clustering Organic Compounds	Laure MAMY, Pierre BENOIT - INRAE (online)
10:55 - 12:10	Basic concepts of (Q)SAR Models: Tools and Use Cases	Floriane LARRAS – KREATIS (online)
12:10 – 13:40	Lunch break	
13:40 - 15:00	QSAR in Action: Hands-On with Modeling Tools	Floriane LARRAS - KREATIS (online)
15:00 – 17:00	Practical Session: Interpretation of Enchytraeid Avoidance Test Results	Mathieu RENAUD, Emmanuelle ROHRBACH - ECOTOX CENTRE (on site)
Summer School Dinner		



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FRIDAY, June 20 2024		
8:30 – 8:40	Welcome	Emilie EGEA - INRAE (on site)
8:40 – 9:20	Introduction to Risk Assessment	Breanne HOLMES - ECOTOX CENTRE (online)
9:20 – 10:50	Practical Exercise: Conducting an Ecotoxicological Risk Assessment	Marion JUNGHANS - ECOTOX CENTRE (on site)
10:50 – 11:05	Break	
Session 4: <i>In situ</i> monitoring for a retrospective ERA		
11:05 – 12:10	Identifying Sources and Monitoring Chemical Contamination in Aquatic Environments	Christelle MARGOUM - INRAE (online)
12:10 – 13:50	Lunch break	
13:50 – 14:50	Active Biomonitoring Approaches Developed by BIOMÆ Using <i>Gammarus fossarum</i>	Guillaume JUBEAUX – INRAE (online)
14:50 – 15:30	Online Biomonitoring	Ali KIZGIN - FHNW (online)
15:30 – 16:10	Microbial Community Adaptation as a Diagnostic Tool for Chemical Stress in Terrestrial and Aquatic Environments	Stéphane PESCE – INRAE (on site)
16:10 – 16:30	General discussion and final Debrief	Stéphane PESCE (INRAE), Adrian LOVE (AQUABIOTECH), Benoît FERRARI (ECOTOX CENTRE), Emilie EGEA (INRAE) (on site)



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