



ecOTOXicomicYR

Third international webinar of young
microbial ecotoxicology researchers 2025

Program

13th October, 20th October, 27th October & 3rd November

Monday afternoon (Paris time zone)

13h30 – 13h45

Opening of EcotoxicoMic YR 2025 webinar
Marine Suchet & Nicolas Gallois

13h45 – 14h30

Keynote speaker: **Tamara Tal**
Exploring chemical-microbiome interactions in zebrafish

14h30 – 15h15

Microbiome host interactions – Part 1
Chairmen: Lauris Evariste

- **Marine Suchet** – Impacts of chronic exposure to sodium fluoride or tebuconazole on the branchial, intestinal and epidermal microbiota of juvenile rainbow trout (*Oncorhynchus mykiss*)
- **Chloe Wray** – Chemical–Microbiome Interactions in Larval Zebrafish: Microbiome-Dependent Effects of Azoxystrobin on Neurobehavior
- **Maëlann Roger** – Exposure to pesticides in *Magallana gigas* larvae: impact to its microbiota and its susceptibility to OsHV-1 at the spat stage

15h15 – 16h15

Poster & flash presentations



Microbiome host interactions – Part 2
Chairmen: Marine Suchet

16h15 – 17h

- **Thomas Moura** – Comparative ecotoxicological effects of a copper-based nanopesticide and its conventional equivalent on *Xenopus laevis* tadpole and its gut microbiota
- **Florian Chapeau** – Effects of graphene oxide on *Xenopus laevis* after multi-route exposure: an integrated host-microbiota approach
- **Jesse Ouwehand** – Microbial custody: key microbiome inhabitant *Sphingomonas* alleviates silver nanoparticle toxicity in *Daphnia magna*

13h30 – 13h35

Introduction of the day
Maria Osipenko

13h35 – 14h20

Keynote speaker: **Clémence Thiour Mauprivez**
Effects of microplastics on bacterial communities in agricultural soils

Effects of contaminants on microorganisms: from species to communities – Part 1
Chairmen: Maria Osipenko

14h20 – 15h05

- **Camille Touchet** – Microplastics and freshwater disease ecology: impacts on microbiota, life-history traits, and transmission potential of the snail *Galba truncatula*
- **Koffi Anderson Hongo** – Assessment of microbial diversity in lake Kassembié for microplastic degradation using 16S rRNA (V3–V4) region sequencing
- **Marie Winter** – Laboratory to field scale: the ecological relevance of laboratory tests for environmental reliable ecotoxicity assessment of polymers

15h05 – 16h05

Poster & flash presentations



Effects of contaminants on microorganisms: from species to communities – Part 2
Chairmen: Roxane Dhommée

16h05 – 16h50

- **Olivia F Sieniawski** – Surfactants in herbicide formulations influence nitrogen cycling in soil microcosms
- **Maria Osipenko** – Effect of plant-based products on soil microbial communities in Christmas tree plantations
- **Neus Besolí-Mestres** – Does urban runoff impact urban stream communities?

13h30 – 13h35

Introduction of the day
Titouan Dionet

13h35 – 14h20

Keynote speaker: **Christopher Sweeney**
Better, not just newer: A case study of soil microbial pesticide risk assessment

New methods and approaches in microbial ecotoxicology
Chairmen: Nicolas Gallois

14h20 – 15h20

- **Tifenn Primet** – Toxic Foresight: Predicting Harmful Cyanobacterial Blooms
- **Isiaka A. Adelere** – Application of *Bacillus safensis* and 13 metabolite for the control of growth and aflatoxin production by *Aspergillus* species on stored maize grains
- **Camille Saint-Picq** – Revealing marine plastic degraders using stable isotope tracers
- **Titouan Dionet** – Spore-tacular automation: deep learning analysis for aquatic hyphomycete ecotoxicological assessment

15h20 – 16h20

Poster & flash presentations



16h20 – 16h50

Microbial bioprocesses and bioremediation
Chairmen: Ioanna Gkoni

- **Göksu Celik** – Biodegradability of tire additives: the role of freshwater and wastewater microbiomes
- **Olivia Renard** – S-metolachlor degradation in agricultural soils and groundwater: isolation of native degrading strains and microbial community profiling

13h20 – 13h25

Introduction of the day
Sofia Agosti

13h25 – 14h10

Keynote speaker: **Edward Topp**
Impacts of humans on the environmental resistome and mobilome

14h10 – 14h55

Antimicrobial resistance
Chairmen: Sofia Agosti

- **Ioanna Gkoni** – Influence of antibiotics and microbial coalescence on sediment microbial communities' functions and diversity
- **Anita Solem** – Dissemination of antimicrobial resistance and potential pathogens through urban wastewater treatment plants
- **Eleni Rafaila Lamprou** – Plastisphere as a Hotspot for Antibiotic Resistance Gene Enrichment in Fertilized Agricultural Soils

14h55 – 15h45

Poster & flash presentations



15h45 – 16h30

Effects of contaminants on microorganisms: from species to communities – Part 3
Chairmen: Camille Touchet

- **Charly Dupont** – Novel insight into rare earth element mediated stress resistance in *Pseudomonas putida* KT2440 using adaptative laboratory experiment
- **Zahrasadat Alavikakhiki** – Acute toxicity evaluation of 12 pharmaceuticals on microbial functions of periphyton
- **Andrea Marchetto** - Responses of Gut Microbial Species and Complex Communities to Xenobiotic Exposure Reveal Mechanisms of Resilience and Vulnerability *in vitro*

16h30 – 16h40

Presentation of EcotoxicoMic 2026 – Dimitrios Karpouzas

16h40 – 16h55

Awards & Closure of the third international webinar of young microbial ecotoxicology researchers

Poster & Flash presentations will be available during the entire webinar (four afternoons)

- **Louis Le Douarin** – Development of a multi-omic approach to assess the impact of the harbour eco-exposome on juvenile fish
- **Catherine Chamorro** – Effects and intracellular fate of cobalt (Co) in the freshwater microalga *Chlamydomonas reinhardtii*
- **Emeline Delcros** – Elucidation of intracellular speciation and the effects of indium on the microalga *Chlamydomonas reinhardtii*
- **Stella Köhler** – Pesticide mixture effects on bioaccumulation and toxicity in biofilms
- **Daphnée Caux** – Prior stress exposure influences microbial community assembly and litter decomposition in headwater streams
- **François Sepet** – River or dendrotelmata: Does habitat of origin shape the tolerance of aquatic hyphomycetes to lead and copper?
- **Zoé Arrigoni** – Road Dust contaminants and periphytic microalgae: community shifts and trophic transfer to *Daphnia magna*
- **Fadwa Khalfallah** – Urban land use shapes microbial life strategies along a management intensity gradient
- **Jessie-Lee Langel** – New Biomarkers for Sea Turtle Conservation: Insights from Shell Biofilms and Eggshell Trace Metals
- **Zeina Bourhane** – Novel Bioactive Molecules in Thermal Waters: A New Frontier in Cosmetic Innovation
- **Ryhane Lounas** – Isolation and characterization of indigenous hydrocarbon-degrading bacteria from oil-contaminated Algerian soils using Nanopore technology
- **Ana Luisa Mejia Camacho** – Fitness Costs Limit MDR E. coli Invasion but Not Gene Dissemination in Freshwater Sediment