



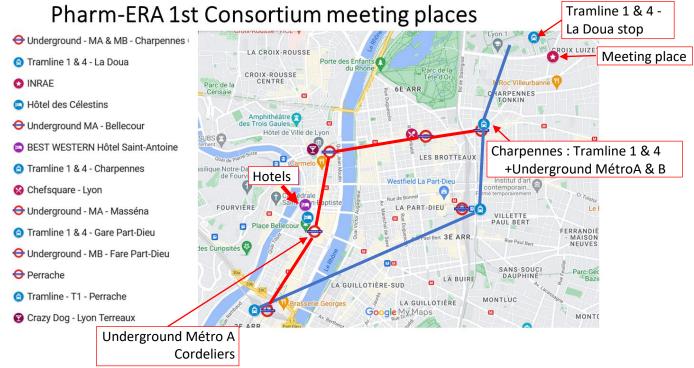
Pharm-ERA 1st consortium meeting detailed agenda

November 25-29th, 2024 - Lyon





PLACES



- Pharm-ERA meeting will take place in INRAE building, 5 rue la Doua, 69100 Villeurbanne.
- To enter the building please present yourself at the welcome desktop. Room meeting is "salle Rhône" on the ground floor in the building on the other side of the indoor courtyard.
- Your hotels are downtown. Rooms booked in 2 hotels downtown

PHD FELLOWS	ALL PARTICIPANTS'				
Hôtel des Célestins	BEST WESTERN Hôtel Saint-Antoine				
 4 Rue des Archers, 69002 Lyon http://www.hotelcelestins.com/ +33 472560898 	 4 Rue de l'Ancienne Préfecture, 69002 Lyon http://www.hotel-saintantoine.fr/ +33 478929191 				

Pharm-ERA First Consortium Meeting, 25-29/11/2024, INRAE Lyon, France

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Eellow to grow. © Crazy dog pub, 7 Place des Terreaux		Going abroad as a EU	I VON	, 00000			Keynote lecture
@ Crazy dog pub, 7 Place des Terreaux			LION				Master class
des Terreaux des Terreaux							Free time
	21:30 22:00	des Terreaux					Team Building

MONDAY NOVEMBER 25TH 12:00 - Welcome Lunch 14:00 Entrance hall, ground floor 14:00 - Introductive Keynote, Edward TOPP, Distinguished Chair on AMR, and Director of research INRAE 20/15'

Rhône meeting room, ground floor

Fate and impacts of antibiotics in terrestrial ecosystems: environmental and health issues in the one-health context.

Antibiotics are pharmaceuticals that prevent or treat bacterial infections in people or animals. They primarily enter the environment through human and animal waste streams, direct addition to aquaculture or crop production systems, and effluents from manufacturing factories. Unfortunately, bacterial pathogens of human and animal health concern are developing resistance to multiple classes of antibiotics. This is happening at a pace that is causing serious concern that the efficacy of these crucially important medicines will be lost with dire concern for public health. The environment has a crucially important role to play in the development and transmission of antibiotic resistance, and is integral to what has been coined the One Health continuum, through which bacteria readily circulate. This presentation will review aspects of the fate and impacts of selected antibiotics on terrestrial communities of bacteria, highlighting some recent findings and current knowledge gaps with respect to ERAs with endpoints that are of human health concern. Individuals with a particular interest on this topic are encouraged to read a recent report from the United Nations Environment Programme.

	are encouraged to read a recent report from the officer valuous Environment rogical	mile.				
14:45 - 16:30	Pharm-ERA welcome & presentation S. PESCE, Network coordinator, WPs leaders, & E. EGEA Project manager, INRAE					
	Rhône meeting room, ground floor					
	 INRAE welcome introduction by Mohamed NAAIM - head of aquatic sciences INRAE department, Pascal BOISTARD – INRAE Lyon-Grenoble center President, and Nicolas LAMOUROUX, head of Hydrosystems functioning RiverLy Research Unit. 	5′				
	 Pharm-ERA MSCA Doctoral Network presentation by Stéphane PESCE, network coordinator, INRAE 	15′				
	 MSCA DN financial rules, by Emilie EGEA, project manager, INRAE WP 3,4,5,6 presentations by WP leaders – introduction by Chloé BONNI-NEAU, network scientific manager, INRAE: 	10'				
	WP3 : Cécile MIÈGE , INRAE	10'				
	WP4 : Natàlia CORCOLL, UGOT	10'				
	WP 5 : Dimitrios KARPOUZAS , UTH	10'				
	WP 6 : Lorenzo PROIA, BETA	10'				
	 PhD fellows training actions by WP 2 leader: Delphine DELAUNAY, Training and Human Resources Manager, Fondation evertéa 	10'				
	 Dissemination & communication actions: Fabrice MARTIN-LAURENT, Intellectual Property, Dissemination and Outreach Manager, INRAE 	10'				
16:30 -	Coffee break					
17:00	ntrance hall, ground floor					

¹ Indication on expected participants & presentation time allowed

17:00 - MSCA Doctoral Network feedback & networking, round table animated 18:30 by Chloé BONNINEAU, Network scientific manager, INRAE

Rhône meeting room, ground floor

ARISTO (2020-2024) - https://aristo.bio.uth.gr/

By Prof. Dimitrios KARPOUZAS, Network coordinator, Head of the Department of Biochemistry and Biotechnology, University of Thessaly, Greece

ARISTO brings together the expertise of industry and academia to train the next generation of soil ecotoxicologists in order to develop tools, methods and procedures to assess in the most comprehensive and robust way the toxicity of pesticides on soil microorganisms. ARISTO will bring research breakthroughs and at the same time will have a major impact in the future regulatory framework regarding the Environmental Risk Assessment of Pesticides. ARISTO (2020-2024) is funded by the European Commission under the MSCA - ITN - EID - H2020 funding scheme.

PlasticUnderground (2022-2026) - www.plasticunderground.org

By Prof. Stefan KRAUSE, Network coordinator, School of Geography, Earth, and Environmental Sciences, University of Birmingham, United Kingdom

PlasticUnderground Doctoral Network is a multi-partner, inter-sectoral joint doctoral research training network with the aim to train an international cohort of Early-Stage Researchers to develop solutions to the emerging underground plastic pollution crisis in soils and groundwater aquifers. Increasing accumulation of micro- and nanoplastics (MnP) in soils and groundwater raise severe concerns by agricultural and water industries, food manufacturers, regulators, environmental interest groups and citizens. PlasticUnderground's mission is to deliver international scientific excellence through research and training on solutions to the emerging crisis of MnP pollution in subsurface ecosystems in soils and groundwater.

QTOX (2023-2027)- www.qtox.eu

By Prof. Gudrun De Boeck, Member of the QTOX Coordinating Team & WP4 leader, Head of the <u>ECOSPHERE</u> research group, University of Antwerp, Belgium

The overall aim of QTOX is the development of quantitative extrapolation tools based on mechanistic knowledge of the underlying processes in the chain from exposure to effects, across all levels of biological organisation, with a close connection to regulatory endpoints, and under environmentally realistic conditions, i.e., including the dynamics of chronic exposures to mixtures of chemicals. The aim is to develop predictive models for describing the adverse effects of chemicals under realistic long-term exposure scenarios based on systematic knowledge acquired under laboratory and semi-field conditions.

QTOX will focus on mesocosm studies and test the predictive capability of models on all levels of chemical and biological organisation within a biological community context: the wealth of chemical and biological data from mesocosm experiments provides mechanistic information for the development, evaluation and validation of model predictions.

19:30 - Sharing experience: Going abroad as a EU Fellow to grow& Cocktail 22:00

ΑII

Crazy Dog (7 Pl. des Terreaux, 69001 Lyon)

Chloé BONNINEAU, Lorenzo PROIA and Victoria OSORIO are former MSCA Doctoral Network PhD students or post-docs, they will be happy to share their experiences of changing countries, laboratory and culture during this informal event. Meet us at the Crazy Dog (7 Pl. des Terreaux, 69001 Lyon) to chat together around some beers & fingers food.

09:00 -	PhD topic & fellows presentations	All				
10:30	Rhône meeting room, ground floor					
	PhD 1: Venetios MICHELIOUDAKIS, AEIFORIA, Assessing and predicting the fate of model PhACs and their TPs in soils and towards the aquatic systems.	<i>15'+5</i> '				
	PhD 2: Chloën LHOMME, UTH, Influence of PhAC exposure on microbial functions, diversity and AMR development and dissemination in soil.	15′+5′				
	PhD 3: Ioanna GKONI , INRAE, Incidence of PhACs and microbial coalescence on sediment microbial communities and the occurrence of bacterial pathogens disseminating antimicrobial resistances (AMR).	15′+5′				
	PhD 4: Ana Luisa MEJÍA CAMACHO, UGOT, Context-dependency on the fate and ecotoxicological effects of antibiotics and antimicrobial resistance on river sediment.	15′+5′				
10:30 - 11:00	Coffee break Entrance hall, ground floor					
11:00 - 12:00	PhD 5: Sofia AGOSTI, BETA, Dissemination routes of AMR and pathogens among terrestrial and freshwater ecosystems in agri-urban catchments.	15′+5′				
	PhD 6: David CALVO MORA, CEAB, Influence of colonizing substrata on the dynamics of AMR and pathogens in fluvial ecosystems.	<i>15'+5'</i>				
	PhD 7: Louis SUSSET, UFZ, Molecular and phenotypic thresholds of antibiotics to protect aquatic microbial community structure and functioning.	15′+5′				
12:00 - 13:30	Lunch time Entrance hall, ground floor					
13:30 - 14:30	PhD 8: Zahrasadat ALAVIKAKHKI, INRAE, Kinetic of metabolomic fingerprints of periphyton exposed to PhACs: towards the discovery of early molecular biomarkers.	15′+5′				
	PhD 9: Galib ASADULLA HIL, IDAEA, Effect Directed Analysis on microbial communities as indicators of chemical and ecotoxicological quality status of the aquatic environment.	15′+5′				
	PhD 10: Alejandra PÉREZ VÁZQUEZ, KRÉATIS, Assessment and prediction of the toxicity of PhACs on surface water and sediment model organisms.	15′+5′				
14:30 - 15:00	Coffee break Entrance hall, ground floor					
PARALLEL	,	members + PM²				
15:00 - 17:00	Durance meeting room, first floor					
	Role of the EAB is to provide guidance on relevant issues as well as to ensure real world relevance for the training and research programmes. The EAB ensures alignment with best international practices and advises on corrective measures.					
	One month before the meeting, a survey will be sent to the EAB members to establish a SWOT matrix of the project. This SWOT will be discussed during the EAB committee. Priority actions & propositions to overcome weaknesses are expected.					

² PM = Project Manager = Emilie EGEA

PARALLEL Introduction to Training and Human Resource Committee & Research Committee, S. PESCE

15:00 -15:10

PESCE

Short description of committee objectives & distribution of PhD students between the 2 committees.

PARALLEL Training and Human Resource Committee, S. PESCE, D. DELAUNAY & F. FERRARI

15:10 - Rhône meeting room, ground floor

Rhône meeting room, ground floor

17:00

Composed of the Network Coordinator (NC = S. Pesce), the Training & Human Resources Manager (THRM = D. Delaunay), the Intersectoral Manager (IM = F. Ferrari), and 2 Fellows, THRC meets every 6 months to:

- monitor network-wide training activity progress;
- evaluate the efficiency and quality of the training activities through the analysis of fellows 'satisfaction level;
- propose adjustments in the Pharm-ERA training programme if needed;
- monitor individual fellow training progress through the annual validation of each PCDP;
- monitor fellows well-being through annual individual interviews.

PARALLEL Research Committee, Chloé BONNINEAU

15:10 - Saône meeting room, first floor 17:00

Composed of the Scientific Manager (SM = C. Bonnineau), WP 3 to 6 leaders (WP3L = C. Miège, WP4L = N. Corcoll, WP5L = D. Karpouzas, WP6L = L. Proia, and Intellectual Property, Dissemination and Outreach Manager (IPDOM = F. Martin-Laurent), RC meets every 6 months to ensure the efficient progress of the scientific aspect of the project by:

- monitoring research activity and dissemination progress;
- proposing adjustments in the research programme if needed;
- promoting active collaborations and exchanges between fellows;
- organising inter laboratory ring tests for the protocols to be standardised or normalised;
- assessing that all patentable aspects will not delay result dissemination and the graduation of fellows;
- proposing mitigation measures if needed;
- monitoring open science Pharm-ERA strategy (data paper, registered report, open data...);
- monitoring and updating if needed the data management plan.

During this first RC meeting, the main objectives and methods of RC will be presented and discussed. A special attention will be given to data management and open-science with a presentation of the OPIDOR tool for data management, the identification of referent for data management in each consortium institution and an open discussion on common strategy for data management and valorisation (data paper, protocol publication...).

18:00 - Let's meet at **18:00** O'CLOCK at 55 RUE GARIBALDI, 69006 LYON for a team building experience followed by a dinner together

All

PLEASE DON'T BE LATE!

WEDNESDAY NOVEMBER 27TH

9:00 -	Externa	l Advisory B	oard conclusions	
40.00	D/ ^			

10:00 Rhône meeting room, ground floor

EAB presents its main conclusions to the consortium.

10:00 -	Coffee break
10:30	Entrance hall, ground floor

10:30 -Keynotes, Sabine DUQUESNE, Environmental Risk assessor, German Govern-

11:15 mental Agency

30'+15'

All

Rhône meeting room, ground floor

Overview of the European regulations for the Environmental Risk assessment of chemicals, special focus on pesticides.

The registration and risk assessment of chemicals on the European market is currently separated between different legal frameworks, dependent on the chemical's use. There are five main European chemical registration frameworks and risk assessment procedures that are covering 1) medicines for human use, 2) veterinary medicines, 3) pesticides, 4) biocides and 5) industrial chemicals. Overall, the function of the current frameworks is similar. Indeed the Environmental regulation of chemicals in the EU was implemented to protect the environment against potential adverse effects in water, sediment, soil and air caused by their use. But differences exist between the frameworks' environmental protection goals and environmental risk assessment (ERA). In this presentation, an overview of the different regulations is presented with a special focus on pesticides and especially on aquatic ecosystems, in order to illustrate diverse aspects of ERA.

11:15 -Keynotes, Benoit FERRARI, Swiss Centre for Applied Ecotoxicology 12:00

All

Rhône meeting room, ground floor

30'+15'

Ecotoxicity of Soil, Sediment and Water: tools, gaps and challenges.

Chemical analysis alone is insufficient for fully assessing the impact of chemicals on species and ecosystems. This is largely due to the growing number of (often unknown) chemical stressors and the complex mixture effects they create. Furthermore, ecological indices have limited capacity to pinpoint the specific stressors responsible for negative ecological outcomes. As a result, additional methods are required to directly address the biological effects of chemical exposure. Ecotoxicity tests fulfill this role and have been developed for use in soil, sediment, and water. In this presentation will give an overview of existing methods and deliver some thoughts on gaps and challenges for assessing the environmental risk in soil, sediment and water.

12:00 -Lunch time 13:30 Entrance hall, ground floor

Supervisory Board: mandatory for all Pharm-ERA consortium PI and WP leaders (+ 2 Fel-13:30 -15:30

lows) - All consortium members (incl. the 10 fellows) are welcome

Rhône meeting room, ground floor

- Reminder of Pharm-ERA management, calendar, publishing results & intellectual property issues (reminder of Consortium Agreement important issues)
- Financial overview of management budget
- Discussion on AEB conclusions
- Conclusions THRC & RC (Discussion on potential PhD projects updates; Personal Career Development Plans validation)
- **Answering Question Box**

ΑII

15:30 - Coffee break

16:00 *Entrance hall, ground floor*

16:00 - Master class, Daniel Pizzolato, European Network of Research Ethics Committees (EUREC),

18:00 Bonn, Germany

Mandatory for all PhD students - All consortium members are strongly invited to participate

Rhône meeting room, ground floor

Research integrity and open science in practice

All researchers must adhere to the highest standards, with proper scientific conduct being the norm. In this context, fostering a positive mindset towards reflection, vigilance, and awareness of responsible research practices is crucial. The masterclass aims to equip PhD researchers with a clear understanding of what constitutes acceptable and unacceptable behavior, helping them avoid mistakes that could negatively impact others, science, and their own careers.

18:00

Free

THURSDAY NOVEMBER 28TH

9:00 - Master class "How to read a Paper using Common Sense and AI?"

12:30

Mandatory for all PhD students

Saône meeting room, first floor

Reading the scientific literature is one of the most common tasks for scientists. However, most of them rarely receive training on how to do this important task. The goal of this workshop is to help participants tackle this challenge in a more scientific way - with processes and appropriate tools to help gather, manage, and extract scientific evidence from the literature. This interactive workshop will review key competencies and good practices for approaching this task in a more systematic way. It will also explore the growing offering of AI tools that can be used to speed up and automate different parts of the process.

12:30 - Lunch time

14:00 *CNRS company restaurant*

14:00 - Outreach & Communication Workshop - PART 1, Fondation evertéa

PhD students

17:30 Saône meeting room, first floor

+PCT3+THRM4

Dissemination of research results and public raising awareness on different targeted audiences and geographical scales through a set of specific communication-dissemination channels, is crucial to foster the development of new environmental paradigms. This will contribute to shape and implement the next generation of environmental management strategies & EU guidelines and regulations, leading to improved protection of soil and aquatic ecosystems from PhACs, AMR and pathogens. All actions will strongly involve the 10 Pharm-ERA Fellows to widely develop their scientific and communication competencies.

According to the Pharm-ERA public engagement and communication strategy, the following target groups have been identified (from local to international):

- General Public, incl. citizens and more specifically children & youth;
- Research, incl. academia, education & project driven research network;
- Non-academic end-users, incl. stakeholders such as "health & environment" agencies or

³ Project Coordinating Team = Stéphane PESCE + Chloé BONNINEAU + Emilie EGEA

⁴ Training and Human Resource Manager = Delphine DELAUNEY

Foundations, environmental managers and experts in public, private and non-profit making organisations, entrepreneurs incl. spin-off/SMEs in the fields of environmental chemistry, ERA or omics technologies and industrials such as PhAC & agrochemical companies and regulators & policy makers.

An outline of the planned communication and dissemination activities has been proposed in the project description. This workshop will be the occasion to discuss proposed activities and to start organizing working groups

- <u>14:00 15:00</u>
 - Goals of the two half days,
 - Presentation of the different outreach vehicles, for both specialists and general public, with examples to illustrate the two 'foundation favourites': The day by day on Instagram and the European researcher's night (Night at the lab)
 - Highlight: 'The importance of storytelling'
- <u>15:00 16:00</u>, General rules to communicate by writing and construct an efficient poster
 - o First action: PhD student scientific Id Card to publish on website.
- 16:00 16:15, Coffee break
- 16:15 17:30, Joint session:
 - o Selection of the type of events that the students want to build,
 - The targeted audience,
 - o Groups constitution and distribution of the groups leadership,
 - o Emission of a calendar.
 - Work on PhD student scientific Id Card to publish on website.

18:00

12:15

Free

FRIDAY NOVEMBER 29TH

09:00 - Personal Career Development Plan (PCDP), Fondation evertéa 09:30

PhD students

Saône meeting room, first floor

+ PCT+THRM

Initial PCDP has to be defined right after PhD enrolment and will be updated every six months. PCDP is used to monitor the progress of fellows, it shall include:

- i) a detailed PhD research plan with tasks on a timeline,
- ii) a publication and conference attendance plan,
- iii) a training plan including Pharm-ERA network-wide activities and external training courses (incl. those from Doctoral Schools),
- iv) dissemination and outreach objectives.

PCDPs will cover both short- and long-term career objectives. Through their PCDP, fellows are actively engaged in their personal and professional development, enhancing their research independence and taking an active role in their training needs and progress. It helps fellows create an individual record of skills, qualities and achievements for future employment.

09:30 - Outreach & Communication Workshop - PART 2, Fondation evertéa

PhD students

Saône meeting room, first floor

+PCT+THRM

- 09:30 11:45, Alex Robini Actress (break included)
 - How to vehiculate a story efficiently.
 - o How to create a character.
 - O How we can use our posture, our body language to get a message across.

• <u>11:45 - 12:15,</u> Synthesis of Outreach & Communication Workshop , and first actions planning

12:15 - Time for PhD Students

PhD students + PCT+THRM

12:45

Saône meeting room, first floor

- Mobility plan in Pharm-ERA: overview, questions...
- Fellow committee

12:45 - Lunch time & departure13:30 Escapade room, ground floor

PARTICIPANTS

NOTE : AP = Associated Partner ; B = Beneficiary; EAB = External Advisory Board; IS = Invited Speaker; PhD st = PhD student

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		evertea		
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