


## Ecotoxicomic 2022 – Scientific program

### Tuesday 15<sup>th</sup> of November

12h20 – 13h40	Welcome
13h40 – 14h00	Introduction
14h00 – 14h40	<b>Opening conference by <a href="#">Dr. Balbina Nogales</a></b>
14h40 – 15h20	<b>Keynote conference by <a href="#">Pr. Joakim Larsson</a> to introduce the session «<a href="#">Fate and impacts of antimicrobials in terrestrial and aquatic environments</a> »</b>
15h20 – 15h40	Exposure of benthic microbial communities to pharmaceuticals and resulting adaptation including tolerance, biodegradation and antibiotic resistance: advances and challenges. <b><a href="#">Chloé Bonnineau</a></b> , <i>Joan Artigas, Agnès Bouchez, Christophe Dagot, Marion Devers-Lamrani, Jérôme Labanowski, Emilie Lyautey, Fabrice Martin-Laurent, Cécile Miège, Leslie Mondamert, Stéphane Pesce.</i>
15h40 – 16h00	Uncover the microbial diversity as barrier to the antibiotic resistance diffusion in freshwater biofilms. <b><a href="#">Giulia Gionchetta</a></b> , <i>Jangwoo Lee, Oliver Hansen, Helmut Bürgmann.</i>  <b>YR award</b>
16h00 – 16h40	COFFEE BREAK
16h40 – 17h00	Biodiversity in freshwater biofilms as a barrier to antibiotic resistance genes dissemination. <b><a href="#">Elisa Catão</a></b> , <i>Giulia Gionchetta, Uli Kluemper, Helmut Bürgmann, Thomas Berendonk, Xavier Bellanger, Christophe Merlin.</i>
17h00 – 17h20	Environmental fate of three antibiotics, sulfomethoxazole, tiamulin and tilmicosin, and their impact on the microbial community composition, resistome and mobilome of two different soils. <i>Eleni Katsivelou, Chiara Perruchon, A. Panagiotis Karas, Apostolia Sarantidou, Smaragda Sotiraki, <b>Sotirios Vasileiadis</b>, G. Dimitrios Karpouzas.</i>
17h20 – 17h40	Sludge management optimization for mitigating the antimicrobial resistance dissemination. <i>Amine Ezzariai, Sacha Sire, Lucie Sauvadet, Jenita Gnaneswaran, Nathalie Arpaillange, Delphine Bibbal, Valérie Bru-Adan, Véronique Dupouy, Maritxu Guirese, Mohamed Hafidi, Julie Jimenez, Marlène Lacroix, David Riboul, Eric Pinelli, Nathalie Wery, <b>Maialen Barret</b>, Dominique Patureau.</i>
17h40 – 18h20	<b>Ecotoxicomic Session</b>
18h20 – 19h40	<b>Poster Session</b>
19h00 – 20h30	WELCOME COCKTAIL
20h30...	Student evening

## Wednesday 16<sup>th</sup> of November

08h30 – 09h10	<b>Keynote conference by <a href="#">Dr. Despo Fatta-Kassinou</a> to introduce the session «<a href="#">Microorganisms as tool to evaluate the efficiency of water treatment processes</a>»</b>	
09h10 – 09h30	Freshwater microbial communities as a tool to evaluate the efficiency of an innovative treatment for abandoned mines effluents. <b><a href="#">Meritxell Abril</a></b> , Lidia Vendrell, Carmen Espinosa, Lluís Bertrams, Laia Llenas, Julio Lopez, Lorenzo Proia.	YR award
09h30 – 09h50	TOXLAB : Multidimensional biosensor to assess toxicity of wastewaters. <b><a href="#">Sullivan Jouanneau</a></b> , Marie-José Durand-Thouand, Thomas Louineau, Gérald Thouand.	
09h50 – 10h10	Contaminants of emerging concern in a constructed wetland system: microbial ecotoxicity and antibiotic resistance genes spread. <b><a href="#">Maria Andronikou</a></b> , Panayiota Pissaridou, Ioannis Vyrides, Marlen Vasquez.	YR award
10h10 – 10h40	COFFEE BREAK	
10h40 – 11h20	<b>Keynote conference by <a href="#">Dr. Sofie Thijs</a> to introduce the session «<a href="#">Impact of contaminant on microbial diversity and functions</a>»</b>	
11h20 – 11h40	Determining <i>in situ</i> periphyton quality and microbial biodiversity responses to nutrients and pesticides. Andreas Håkansson, Henrik Nilsson, Erik Kristiansson, Thomas Backhaus, Karin S.L. Johansson, Anders Nilsson, <b><a href="#">Natàlia Corcoll</a></b> .	
11h40 – 12h00	Exploring the toxicity of the new emerging toxicant 6PPD-Quinone to environmental microorganisms. Anthony Martins, Takoua Mhadhabi, Amandine Chauviat, Romane Caracciolo, Sabine Favre-Bonté, Christine Baduel, Thibault Meyer, Gaele Uzu, Sylvie Nazaret, Michael Pirrung, <b><a href="#">Jean M.F. Martins</a></b> .	
12h00 – 12h20	Effect of simulated cyanobacterial blooms on the gut microbiota and metabolome of the medaka fish <i>Oryzias latipes</i> : a case study of microbiome-aware ecotoxicology. <b><a href="#">Sébastien Duperron</a></b> , Alison Gallet, Sébastien Halary, Pierre Foucault, Charolotte Duval, Hélène Huet, Benjamin Marie.	
12h20 – 13h40	LUNCH	
13h00 – 13h40	<b>Poster Session</b>	
13h40 – 14h00	Response of soil bacterial and hppd communities to tembotrione herbicide. <b><a href="#">Hugo Terol</a></b> , Clémence Thiour-Mauprivez, Marion Devers-Lamrani, Fabrice Martin-Laurent, Christophe Calvayrac, Lise Barthelmebs.	 YR award
14h00 – 14h20	Compositional, genetic and functional characterization of culturable microbial communities isolated from polychlorinated dibenzo-p-dioxins/furans contaminated soil. Sabrin Mahfouz, Gaytha Mansour, <b><a href="#">Abdulsamie Hanano</a></b> .	
14h20 – 14h40	Phenanthrene impacts poplar physiology and affects differently fungal versus bacterial communities in the rhizosphere and the root endosphere. <b><a href="#">Lilian Gréau</a></b> , Marie Le Jean, Thierry Beguiristain, David Billet, Dimitri Heintz, Julie Zumsteg, Damien Blaudez Damien, Aurélie Cébron.	
14h40 – 15h00	Impact of graphene oxide on <i>Nitzschia palea</i> : approach in flow cytometry. <b><a href="#">Paul Braylé</a></b> , Maialen Barret, Florence Mouchet, Laury Gauthier, Lauris Evariste, Eric Pinelli.	YR award
15h00 – 15h20	Metal resistance genes enrichment in marine biofilm communities selected by biocide-containing surfaces in temperate and tropical coastal environments. Elisa Catao, Nicolas Gallois, Benjamin Misson, Fabienne Fay, Karine Rehel, Dalyal Copin, Isabelle Linossier, Cédric Garnier, Alina Tunin-Ley, Jean Turquet, Thomas Pollet, Raphaëlle Barry-Martinet, Christine Bressy, <b><a href="#">Jean-François Briand</a></b> .	
15h20 – 16h00	<b>Poster Corner Session</b>	
16h00 – 16h40	COFFEE BREAK	

## Wednesday 16<sup>th</sup> of November

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16h40 – 17h00 Metabolomic responses of freshwater periphytic microbiome to combined stress of artificial light at night (ALAN) and benzalkonium chloride. **Nicolas Creusot**, *Romain Vrba, Mélissa Eon, Nicolas Mazzella, Aurélie Moreira, Debora Millan-Navarro, Soizic Morin.*

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17h00 – 17h20 Multi-omics applications reveal stress adaptation processes in microbial communities differing in exposure history. *Floriane Larras, Stefan Lips, Philippe Veber, Stephan Schreiber, Elise Billoir, Marie-Laure Delignette-Muller*, **Mechthild Schmitt-Jansen.**

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17h20 – 17h40 Impact of plastics on carbon fluxes mediated by microorganisms in the marine environment. *Pascal Conan, Léna Philip, Eva Ortega-Retuerta, Charlène Odobel, Clélia Duran, Caroline Pandin, Carolane Giraud, Anne-Leila Meistertzheim, Valérie Barbe, Alexandra Ter Hall, Mireille Pujo-Pay*, **Jean-François Ghiglione.**

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17h40 – 18h00 Structural and functional impact of wastewater microorganisms in stream biofilms. **Louis Carles**, *Simon Wullschleger, Adriano Joss, Rik I.L. Eggen, Kristin Schirmer, Nele Schuwirth, Christian Stamm, Ahmed Tlili.*



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18h00 – 18h40 **Poster Session**

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20h00... « Pint of Science » - science popularization event in the center of Montpellier - ***in French only***

## Thursday 17<sup>th</sup> of November

08h30 – 09h10	<b>Keynote conference by <a href="#">Dr. Fabrice Martin-Laurent</a> to introduce the session «<a href="#">Microorganisms as tool for environmental risk assessment</a>»</b>	
09h10 – 09h30	Microbial indicators and Quality Ratio Index for risk assessment in oil-contaminated tropical coastal sediments. <i>Angelo Carvalho, Cristiana Cravo-Laureau, <b>Vanessa Moreira</b>, Alice Baldy, Murilo Vicente, Edison Bidone, Marcelo Bernardes, Elisamara Sabadini-Santos, Robert Duran.</i>	 YR award
09h30 – 09h50	Extended spectrum beta-lactamase-producing <i>Escherichia coli</i> in surface water and groundwater of a French karst system. <b>Charles P. Henriot</b> , Victor Klabá, Philippe Amiotte-Suchet, Jean-Charles Beugnot, Kien Phan Huy, Thomas Karbowski, Xavier Bertrand, H��l��ne Celle.	YR award
09h50 – 10h40	COFFEE BREAK	
10h40 – 11h00	Marine biofilms as biological indicators of the seawater chemical quality of Mediterranean French coasts. <b>Abel Barr��</b> , Marc Bouchoucha, Rapha��lle Barry-Martinet, Marine Briand, Nicolas Briant, Bruno Dormoy, Philippe Marchand, Annick Ortalo-Magn��, Jean-Fran��ois Briand.	YR award
11h00 – 11h20	Down under the surface of the Adriatic Sea: benthic microbial communities and how anthropogenically-induced pollution affects them? <b>Ana Ramljak</b> , Martina Furdek Turk, Mavro Lu��i��, Ines Svili��i�� Petri��.	 YR award
11h20 – 11h40	Bio-indication of trophic and mining alterations and determination of New-Caledonian rivers' ecological state, using a new multimetric diatomic index (IDNC). <b>Fran��ois Delmas</b> , Julien Marquie, S��bastien Boutry, Estelle Lefran��ois, Yannick Dominique.	
11h40 – 12h20	<b>Discussion on microbiome in ERA introduced by M. Pautasso (EFSA)</b>	
12h20 – 13h40	LUNCH	
13h00 – 13h40	<b>Poster session</b>	
13h40 – 14h20	<b>Keynote conference by <a href="#">Dr. Kathrin Fenner</a> to introduce the session «<a href="#">Microbial roles in contaminant fate and bioremediation</a>»</b>	
14h20 – 14h40	Dynamics of the total and active bacterial communities in a bioremediation field-trial of As-rich acid mine drainage. <b>Camila Diaz-Vanegas</b> , Corinne Casiot, Ang��lique Desoeuvre, Liming Lin, Odile Bruneel, Fabienne Battaglia-Brunet, Catherine Jouliau, J��r��me Jacob, Marina H��ry.	YR award
14h40 – 15h00	Role of micro-organisms in the leaching of critical metals from tungsten mine wastes: from the microscale to the field scale. <b>Elia Laroche</b> , Lorenzo Spadini, Laurent Oxarango, Armelle Crouzet, C��line Duwig, Yvan Rossier, Gaspard Boujut, Luciane Cand, Thomas Maret, Jean.M.F. Martins.	 YR award
15h00 – 15h20	Microbial role in plastic biodegradation in the marine environment: the case of polyhydroxyalkanoates. <b>L��na Philip</b> , Charl��ne Odobel, Justine Jacquin, Gabrielle Derippe, ��milie Villar, Val��rie Barbe, St��phane Bruzard, Anne-Leila Meistertzheim, Jean-Fran��ois Ghiglione .	YR award
15h20 – 16h00	<b>Poster Corner Session</b>	
16h00 – 16h40	COFFEE BREAK	

16h40 – 17h00	Identifying potential blockbuster trifluoroacetate precursors. <b><u>Sema Karakurt-Fischer</u></b> , <i>Serina L. Robinson, David R. Johnson, Kathrin Fenner.</i>	 YR award
17h00 – 17h20	How can multi-contamination and redox variation affect metformin biodegradation in continental waters at the sediment-water interface ? <b><u>Adrien Borreca</u></b> , <i>Stéphane Vuilleumier, Gwenaël Imfeld.</i>	 YR award
17h20 – 17h40	Metagenomics, metatranscriptomics and statistical learning to enhance the remediation of oil sand processed water in Northern environments. <b><u>Sara Correa-Garcia</u></b> , <i>Julien Tremblay, Marie-Josée Bergeron, Kaitlyn Trepanier, Dani Degenhardt, Christine Martineau, Etienne Yergeau.</i>	 YR award
17h40 – 18h20	<b>Poster Session</b>	
19h30	Bus departure to the conference dinner	
20h00...	Conference Dinner	

### Friday 18<sup>th</sup> of November

08h30 – 09h10	<b>Keynote conference by <u>Pr. Robert Marks</u> to introduce the session «<u>Cell biosensors: from microorganisms to the systems applied to environmental issues</u>»</b>	
09h10 – 09h30	Development of biosensors for the assessment of seawater toxicity: Choice of the bioreporter. <b><u>Eva Delaunay</u></b> , <i>Sullivan Jouanneau, Marie-José Durand-Thouand, Gérald Thouand.</i>	YR award
09h30 – 09h50	Sensing the environment by distributed microbial sensors: detection of buried landmines as an example. <b><u>Shimshon Belkin</u></b> , <i>Benjamin Shemer, Tal Elad, Etai Shpigel.</i>	
09h50 – 10h40	COFFEE BREAK	
10h40 – 11h00	Growth condition dependant glyphosate degradation in <i>Ochrobactrum pituitosum</i> strains. <b><u>Katharine J. Thompson</u></b> , <i>Paola Hernandez, Adrian Langarica-Fuentes, Sara Kleindienst.</i>	
11h00 – 11h20	Increased temperature and light availability accelerate the decomposition of glyphosate by stream biofilms. <i>Selma Abdelhak, Yoann Menard, <u>Joan Artigas</u>.</i>	
11h20 – 12h00	<b>Closing Session &amp; Awards</b>	