



# IDAEA YOUNG RESEARCHERS' DAY

## Agenda 2022

09h00

Oral presentations

**Raimon Martínez Prats - O.01** - *Passive air and water sampling in high-altitude lakes: occurrence and distribution of legacy and emerging organic pollutants*

**Juan Andrés Pinos - O.02** - *Investigation on stemflow dynamics: an important underestimated ecohydrological water flux*

**Carlos Pérez López - O.03** - *The ROIMCR procedure as a new proposed workflow for data treatment in environmental proteomics*

**Bernat Oró-Nolla - O.04** - *Analysis of new generation PFASs by UHPLC-Q-TOF in birds from the Ebro delta*

**Juliette Bedrossiantz - O.05** - *Heart rate and behavioral responses in three phylogenetically distant aquatic model organisms exposed to environmental concentrations of carbaryl and fenitrothion*

**Angie Albarracín - O.06** - *Size and time-resolved source contributions and oxidative potential of non-exhaust sources in Barcelona*

**Hugo Moro - F.01** - *Behavioural responses of Daphnia magna and Danio rerio to neuroactive compounds*

**Linus Walter - F.02** - *Forward Modelling of Subsurface Fluid Flow for a Heterogeneous Permeability via Physics Informed Neural Networks*

**Marjan Savadkoohi - F.03** - *Harmonization and source apportionment of eBC particles in European cities in the frame of the RI-URBANS project*

**Albert Menéndez-Pedriza - F.04** - *Spatial lipidomics characterization of zebrafish embryos*

**Valeria Vecchi - F.05** - *EDIBLE CITIES – Health benefits vs health risks of urban agriculture*

**Francesc Labad - F.06** - *Analysis of semi-polar and polar pollutants in the urban waters of Barcelona*

**Aina Queral Beltran - F.07** - *UV absorption spectrophotometry and LC-dad-MS coupled to chemometrics analysis of the degradation of sulfamethoxazole drug by UV/chlorine advanced oxidation processes*

11h00

Coffee break ☕

11h30

Oral presentations

**Alicia Cano-López - O.07** - *Characterization of chlorinated solvents in groundwater and the assessment of their attenuation by novel oxidation treatments*

**Dario Sciandra - O.08** - *Hydro-mechanical simulation of Opalinus Clay to the CO2 long-term periodic injection experiment (CO2LPIE)*

**Jon Iriarte - O.09** - *Exposing marine microbial communities to organophosphate esters across the Atlantic Ocean*

**Isabel Díez Palet - O.10** - *Influence of volatile organic compounds on local tropospheric ozone formation*

**Daniela Correia - O.11** - *What does environmentally relevant concentrations of fluoxetine do to fish?*

**Maria López Olivé - O.12** - *Toxicity and size-resolved chemical composition of particles released from refit operations in shipyards*

12h45

Workshop "Creativity in Science" by Enrique Conches and Jordi Díaz

14h15

Lunch break 

15h15

Flash talks

**Maria Paula Losada Carrillo - F.08** - *Contamination impact on the health and the microbiome associated to marine and freshwater zooplankton*

**Pauline Saurat - F.09** - *Unravelling hydrological processes in Mediterranean headwater catchments by means of water stable isotopes*

**Jordina Gili Ciurana - F.10** - *Wildfire impacts on ambient air quality and personal exposure*

**Daniel Gutiérrez-Martín - F.11** - *Wide-scope suspect and target screening for the identification and quantification of chemicals of emerging concern in urine*

**Giuseppina Zuri - F.12** - *Airborne microplastics in remote and urban areas*

**Meritxell Garcia Marlès - F.13** - *Ultrafine particles across urban Europe in the frame of RI-URBANS project*

**Núria Trilla i Prieto - F.14** - *Organophosphate esters and perfluoroalkyl substances in the Atlantic and Southern oceans*

16h00

Poster sessions

**Verónica Moreno-Martín - P.01** - *Life Nanohealth Project*

**Arianna Bautista Gea - P.02**- *Bioaccumulation of plastic additives and organic pollutants in zebrafish trough microplastics*

**Loujain Alharfouch - P.03** - *Stable isotope-based understanding of water fluxes in the critical zone at the forest plot scale under Mediterranean climate*

**Katerina Savva - P.04** - *Sublethal effects on behaviour and feeding of bio-plastic microparticles in daphnia magna*

**Animesh Nepal - P.05** - *Numerical study of quasistatic capillary rise resulting in pressure-saturation hysteresis*

**Ana Torres Agulló - P.06** - *Airborne microplastic particle concentrations in indoor urban microenvironments and facial masks inhalation risks*

**Sharon Ridolfo - P.07** - *Ultrafine particles monitoring and characterization at different urban environments: the nPETS experimental campaigns in Spain*

**Maria Garcia Torné - P.08** - *Assessment of micro- and nanoplastics composition in the gastrointestinal tract of the Ebro River fish*

**Olga Gómez Navarro - P.09** - *Occurrence and fate of pharmaceuticals in spanish intermittent streams*

**Marten in 't Veld - P.10** - *Apportionment of the organic fraction in PM10 in the Barcelona area*

**Diana Manjarrés - P.11** - *Presence and accumulation of PhACs in freshwater aquatic biota*

**Jessica Patrone - P.12** - *Characterization of dissolved organic matter (DOM) by nontarget HRMS: a comparison between liquid chromatography and direct infusion*

**Federica Ippolito - P.13** - *Comparison of receptor modeling vs dispersion modelling at 2 European cities for source apportionment of PM10 and PM2.5*

**Rima Benhammedi - P.14** - *Convective mixing in heterogeneous porous media-case of the HRL problem*

**Tiantian Wang - P.15** - *Is the lipidome of PLHC-1 cells altered by the presence/absence of fetal bovine serum in culture medium?*

**Samanta Rojas-Castro - P.16** - *Commercialising innovative technologies for sustainable purposes*

**Iman Vaezi - P.17** - *Implicit representation of a single fracture with a continuum equivalent layer to simulate coupled processes*

**Maryam Pyambri Pramani - P.18** - *New Approach Methodologies and Chemometrics to assess the toxicological risk of environmental pollution on human health*

17h00

Trivial Activity

17h30

Awards



17h45

Garden Party

