

8h00 Check in

9h00 Opening

Margalef Conference: Palmer M. Restoration, watershed context, and biogeochemical processes: from streams to wetlands

10h30 Women in Science

10h45 Coffee

SE8 - Barbosa L, Detry T, von Schiller D

- 11h15 **Detry T**, Foulquier A, Corti R, von Schiller D, Shumilova O, Tockner T, 1000IRPteam. A global perspective on carbon dynamics in intermittent rivers and ephemeral streams.
- 11h30 **Arias del Real R**, Muñoz I, Menéndez M. Increased flow intermittency reduces aquatic hyphomycetes richness affecting leaf litter decomposition.
- 11h45 **Florín M**, Campos A, Cerrillo I, León I, Villanueva JM. Diffuse and point pollution in the highly valuable Mediterranean river Bullaque (Guadiana catchment, Central-SW Spain).
- 12h00 **Yu S**, Bond N, Bunn S, Xu Z, Kennard M. Quantifying spatial and temporal patterns of flow intermittency using spatially contiguous runoff data
- 12h15 **Parra G**, Gilbert JD, Jiménez-Melero R, Ortega F, Guerrero F. Yes, tiny things are relevant: the use of zooplankton community in Mediterranean temporary wetland assessment and management.
- 12h30 **Crabot J**, Detry T. Temporal variability of metacommunities structure in intermittent rivers: interaction with the spatial drying pattern.

12h45 Lunch

SR12/13 - Antunes S

- Raposeiro PM**, Saez A, Giralt S, Costa AC, Gonçalves V. Causes of spatial distribution of subfossil diatom and chironomid assemblages in surface sediments of a high gradient lake.
- Santofimia E**, López-Pamo E, Ruiz JM, Mejías M. Modificaciones ambientales en el humedal del Parque Nacional de Las Tablas de Daimiel propiciadas por la actividad de especies exóticas invasoras.
- Llorente A, **Seoane S**. Phytoplankton community composition and dominant pigments during mixing period in Lake Sanabria (NW Spain).
- Santos JI**, Vidal T, Mendes C, Ré A, Gonçalves FJM, Castro BB, Pereira JL. Influence of invasive Asian clam distribution patterns on macroinvertebrate assemblages and water ecological status in a semi-artificial catchment.
- Toro M**, Seisdedos P, Negro AI, Alonso R, Vega JC, Alonso M, Sánchez-Castillo PM, Monteoliva AP, Marco J, Valero B, Catalan J, Alonso AM, Arias S, Artiñano B, Barreales R, Barreiro F, Bermejo V, Calvete H, Cobo G, Hoyos C, Díaz E, Domínguez A, Fanés I, García H, González P, Hernández N, Leira M, Lizana M, Moreno A, Morales J, Nuño C, Pahissa J, Peg M, Pérez ME, Pla-Rabés S, Rasines A, Roblas N, Robles S, Salvador P, Valiño F, Vargas JL. Estudio limnológico del lago de Sanabria y su cuenca: un proyecto multidisciplinar para evaluar su estado y funcionamiento ecológico.
- Baptista GM**, Pereira MJ, Vieira MN, Marques JC, Gonçalves AMM. Spatio-temporal composition of phytoplankton community in the Mondego estuary, Portugal.

10h45 Coffee

SR2 - Cortes R

- 11h15 Cabecinha E, Hughes S, **Cortes R**. Consistent, congruent or redundant? Organisational response of lotic communities to disturbance.
- 11h30 **Álvarez-Troncoso R**, Zaragüeta M, Robles S, Barragán C, Rodríguez JM, Luque Y, Fernández J, Puig A, González Idiat. Es: The new Spanish Diatom Index Intercalibration Exercise.
- 11h45 **Rincón G**, Alonso C, García de Jalón D, González G, Solana-Gutiérrez J. Measuring the effects of dam removal on Ecosystem Services using Fuzzy Cognitive Maps.
- 12h00 **Moreira C**, Mendes R, Gomes C, Vasconcelos V, Antunes A. Occurrence of cyanobacteria and cyanotoxins in Portuguese freshwater systems.
- 12h15 **Soria-Perpinyà X**, Urrego P, Pereira-Sandoval M, Ruiz-Verdú A, Peña R, Soria JM, Delegido J, Vicente E, Moreno J. Ecological monitoring of a hypertrophic lake (Albufera of Valencia, Spain) using multitemporal Sentinel-2 images.
- 12h30 **Alonso C**, Calleja M, Rincón G, García de Jalón D. Temporal variability of stream macroinvertebrate community size-spectra.

SR6 - Vellasco P

- Conde-Porcuna JM**, Veiga-Neto J, Moreno E, Jiménez L, Ramos-Rodríguez E, Pérez-Martínez C. Phylogeny and genetic patterns over time and space in the species complex of *Daphnia pulex-pulicaria* from Sierra Nevada lakes (Spain).
- Gálvez A**, Rueda J, Monrós JS, Bonilla F, Sasa M, Morales L, Camacho A, Sahuquillo M, Mesquita-Joanes F, Armengol X. On the structure of rotifer metacommunities in temporary ponds from Costa Rica.
- Firmiano KR**, Cañedo-Argüelles M, Gutiérrez-Cánovas C, Macedo DR, Bonada N, Callisto M. Landscape resistance to dispersal and local environment determine metacommunity patterns of neotropical headwater streams.
- González-Trujillo JD**, Donato JC, Muñoz I, Sabater S. Ecoregional features explain invertebrate diversity at local and regional scales in rivers from the Colombian Orinoco basin.
- Guareschi S**, Mellado-Díaz A, Puig MA, Sánchez-Fernández D. The last shall be first: potential distribution and conservation assessment of the Iberian endemism *Eurylophella iberica* Keffermuller and Da Terra 1978 (Ephemeroptera, Ephemerellidae) under current and future climate scenarios.
- Campelo PH**. Declínio populacional de cetáceos neotropicais dulcícolas promovidos pela implantação de usinas hidrelétricas.

Auditorium

14h15 **Modenutti B.** Aquatic deserts and the success of mixotrophic ciliates

SE8 - Barbosa L, Detry T, von Schiller D

15h00 **Menezes RF,** Costa M, Junior CJFC, Costa SY, Ramos TPA, Sternberg LSL, Becker V, Attayde JL. Extreme drought may homogenize freshwater assemblages in semi-arid reservoirs.

15h15 **Paredes I,** Ramirez F, Forero MG, Green AJ. Nitrogen stable isotopes ($\delta^{15}\text{N}$) in halophytes as a proxy for anthropogenic nitrogen pollution in intermittent Mediterranean wetlands.

15h30 **Gómez R,** Sánchez-Montoya MM, Guerrero M, Miñano J, Tockner K. Debris piles as hotspots of nutrients, microbial activity and ground-dwelling arthropod biodiversity in ephemeral rivers.

15h45 **Laini A,** Bolpagni R, Burgazzi G, Palmia B, Viaroli P. Drought effects on the macroinvertebrate community in Northern Italy.

16h00 Coffee

SE8 - Barbosa L, Detry T, von Schiller D

16h30 **Barbosa LG,** Oliveira DL, Silva FS. Phytoplakton communities in stone tanks in the Brazilian semi-arid region.

16h45 **Nizzoli D,** Azzoni R, Viaroli P. Short term influence of sediment drying and organic matter enrichment on benthic metabolism, nitrogen and phosphorus recycling.

17h00 **Colls M,** Timoner X, Acuña V, Sabater S. Effects of non-flow period on pigment composition, physiology and resistance structures of permanent and temporary streams.

17h15 **Zoppini A,** Melita M, Casentini B, Laratta B, Pescatore T, De Girolamo AM. In situ observations of temporary rivers dry sediments: chemical quality and microbial properties.

17h30 **Gasith A.** Revival of rain-pool habitats in Israel

17h45 **Posters**

18h15

19h15

Room A

SR12/13 - Raposeiro P

Antunes SC, Sousa-Pinto I, Nogueira S, Almeida R, Formigo NE. Assessing the water quality in reservoirs: use of zooplankton as biological element, the forgotten link in WFD.

Garcia Bravo A, Bouchet S, Tolu J, Mateos-Rivera A, Peura S, Buck M, Björn E, Bertilsson S. Biological and chemical interplays: The role of organic matter in mercury methylation.

Santos L, Brotto D, Araújo F. Artificial habitats as attracting devices (FADs) for alien game fish control in a Neotropical reservoir.

Durán C, Martínez-Sanz C. Macroinvertebrados y diatomeas como herramientas en la gestión de la calidad del agua desembalsada.

Coffee

SE9 - Cauvy-Fraunié S, Niedrist G

Cauvy-Fraunié S. Mountain freshwater metacommunity response to multiscale flow alteration.

Niedrist GH, Psenner R, Sommaruga R. Climate change increases vertical and seasonal water temperature differences, and inter-annual variability in a mountain lake.

Álvarez-Cabria M, Sainz M, Pérez I, Estévez E, González-Ferreras A, Rodríguez T, Peñas F, Barquín J. Multiannual monitoring in streams from the Picos de Europa National Park (northern Spain).

Scotti A, Füreder L, Marsoner T, Tappeiner U, Bottarin R. A "riverscape" study: effects of alpine land covers on assemblages and functional traits of stream benthic macroinvertebrates.

Posters

GetTogether: young researchers & editors

Young AIL researchers assembly

Room B

SR4 - Dolédéc S.

- 15h00 **Abelho M**, Canhoto C. Is CNP ratio in leaves a main driver of leaf litter decomposition?
- 15h15 **Jesus T**, Monteiro A, Abreu I, Guerreiro MJ. Estudo do efeito da descarga de duas ETAR's na estrutura da comunidade de macroinvertebrados bentónicos do rio Tinto (Portugal).
- 15h30 **Gonçalves AL**, Carvalho A, Bärlocher, F Canhoto C. Are fungal strains from salinized streams functionally more efficient than their conspecifics from reference streams?
- 15h45 **López-Rojo N**, Pérez J, Pozo J, Basaguren A, Elozegi A, Tonin AM, Swafford AJ, Correa-Araneda FJ, Pearson RC, Boyero L, GLOBE partners. Decomposition and Diversity in streams: a global experiment (GLOBE-DecoDiv).

16h00 Coffee

SR4 - Abelho M.

- 16h30 **Dolédéc S**, Feio MJ. Do the so-called functional traits relate to ecosystem functions?
- 16h45 **Alves AS**, Gonçalves AL, Lirio AV, Canhoto C. Leaf litter decomposition: drivers in estuarine systems.
- 17h00 **Pérez-Calpe AV**, González JM, Guzman I, Larrañaga A, von Schiller D, Elozegi A. DIVERSION: Multi-scale consequences of water diversion and its interaction with pollution on river ecosystems.
- 17h15 **Pérez J**, López-Rojo N, Basaguren A, Pozo J, Boyero L. How phylogenetic diversity influences litter decomposition.
- 17h30 **Posters**

Room C

SR6 - Conde-Porcuna J

- Fernandes I**, Lisi PJ, McIntyre PB, Pascoal C, Cássio F. Freshwater fungal diversity along an anthropogenic gradient in Hawaiian streams.
- Pires-Zottarelli CLA**, Jesus AL, Ventura PO, Boro MC, Colombo DR. Diversidade de fungos (*sensu lato*) zoospóricos de corpos d' água do Mosaico de Unidades de Conservação Juréia-Itatins, São Paulo, Brasil.
- Valle-Artaza JM**, Fernández-González A, Fernández-López J, Rodríguez-García N, Menéndez-Pérez D, Sergi Munné S, Silva-Mendez G, Doblas-Bajo M, Rodríguez-Arribas D, De-La Puente AB, Castresana J, Menéndez DF. Ecological profile of the Pyrenean Desman (*Galemys pyrenaicus*) in the Sistema Central (Spain).

- Pandeirada MS**, Craveiro SC, Calado AJ. Recent advances to our knowledge of dinoflagellate diversity in fresh waters of continental Portugal

Coffee

SR6 - Fernandes I.

- Pallarés S**, Lai M, Abellán P, Ribera I, Sánchez-Fernández D. Latitudinal variation in species body size: does Bergmann's rule apply to aquatic insects?
- Padovesi-Fonseca C**, Silva MJM, Costa DF, Rezende RS. Microinvertebrados planctônicos de riachos de cabeceiras do Cerrado, Brasil central.
- Pradhan A**, Fenoy E, Cássio F, Casas JJ, Moyano FJ, Pascoal C. Leaf litter decomposition and fungal biodiversity assessed by high-throughput sequencing across Mediterranean streams.
- Lycarião T**, Moura A, Carvalho I, Costa D, Dantas E. Modelos de equações estruturais para comunidades de plantas aquáticas em ecossistemas rasos tropicais.

Posters

8h00 Check-in

8h45 **Maksimovic C.** Advanced planning and management of urban lakes and ponds as a part of Integrated BGS (Blue Green Solution).

SE2 - **Guilhermino L., Abrantes N., Gonçalves AMM**

9h30 **Martins A, Guilhermino L.** Effects and recovery of microplastics exposure over generations in *Daphnia magna* populations.

9h45 **Barboza LGA,** Vieira LR, Guilhermino L. Acute effects of microplastics and mercury, individually and in binary mixtures, on the swimming performance of the juvenile European seabass (*Dicentrarchus labrax*).

10h00 **Guilhermino L, Vieira LR,** Ribeiro D, Tavares AS, Cardoso V, Alves A, Almeida JM. Single and combined effects of microplastics and an antimicrobial on the exotic invasive bivalve *Corbicula fluminea*.

10h15 **Pacheco A,** Martins A, Guilhermino L. Reproductive and developmental effects of microplastics, gold nanoparticles and their mixtures in the crustacean *Daphnia magna*.

10h30 **Rodrigues MO,** Gonçalves FJM, Nogueira H, Marques JC, Abrantes N, Gonçalves AMM. Abundance and distribution of microplastics in Antuã River (Portugal).

10h45 Coffee

SE8 - **Barbosa L, Detry T, von Schiller D**

11h15 **Camacho A,** Picazo A, Rochera C, Santamans AC, Morant D, Miralles-Lorenzo J, Castillo-Escrivà A. Current rates and potential effects of climate change effects on methane emissions in Spanish temporary saline lakes

11h30 **Munné A,** Solà C, Mardina M, Garcia E, Sierra C, Cid N, Soria M, Gallart F, Prat N. A new approach to assess ecological status in intermittent rivers and ephemeral streams in a Mediterranean river basin district (Catalonia, NE Spain).

11h45 **Rezende C.** Intraspecific variability as a persistence mechanism of fishes in intermittent streams.

SR14 - **Gonçalves V**

Anastácio PM, Marques M, Águas M, Wójcik-Fudalewska D, Normant-Saremba M. The invasive Chinese mitten crab (*Eriocheir sinensis*) in the Tagus estuary (Portugal).

Martin-Vélez V, Bouten W, Shamoun-Baranes J, Taggart M, Sánchez M, Green AJ. Connecting landfills with natural wetlands: gulls as example of toxicant transporters.

Céspedes V, Green AJ, Stoks R, Sánchez MI. Higher phenoloxidase activity in invasive than in native water boatmen infected by water mite parasites and consequences for the invasion.

Cabrero MJ, Helbling EW, Villafañe VE, Medina-Sánchez JM, Villar-Argaiz M, Carrillo P. Cumulative impact of multiple global-change drivers on primary production change their net effect along an optical gradient.

Bruno D, Belmar O, Maire A, Morel A, Dumont B, Detry T. Structural and functional responses of invertebrate communities to climate change and flow regulation in alpine rivers.

Coffee

SR14 - **Anastácio P**

Gonçalves V, Pla S, Marques HS, Raposeiro PM, Vázquez-Loureiro D, Hernández A, Pueyo JJ, Sáez A, Bao R, Giralt S. The impact of recent global changes on remote oceanic island lakes – a paleolimnological perspective.

Fernández VM, Tánago MG, Jalón DG. Assessment of macroinvertebrates communities responses across regulated and non regulated sites.

Fahd K, Martin I, Remesal JA. Distribución geográfica de especies exóticas invasoras acuáticas en Andalucía.

Room B

SR2 - Gómez N

- 9h30 **Zaragüeta M**, Álvarez-Troncoso R, Robles S, Barragán C, Rodríguez JM, Luque Y, Fernández J, Puig A, González I. iDIAT-ES. A new diatom index to assess the ecological status of Spanish rivers.
- 9h45 **Martínez Y**, Pereira JM, Gutiérrez D, Silva MI, Pousa A, Otero JC, Garrido J. Control y vigilancia entomológica de mosquitos vectores de enfermedades humana y animal en Galicia.
- 10h00 **Muniz D**, Oliveira-Filho E, Lima J. Proposição de índice de qualidade da água para irrigação (IQA) com base no monitoramento da água superficial em ambientes rurais do Distrito Federal, Brasil.
- 10h15 **Goldenberg-Vilar A**, Zaragüeta M, Rodríguez JM, Roldán V, Pérez-Bilbao A, San Juan J, Rebella D, Ortega A, Álvarez-Troncoso R, Robles S, Santos S, Corral MV, Yáñez A. From science to practical applications: Diatom growth forms in relation to disturbance gradients in the Tagus basin.
- 10h30 **García-Trenza P**, Saura-Campos A, Domínguez-Gómez JA. Drones y Limnología.

10h45 Coffee

SR2 - Prat N

- 11h15 **Banha F**, Anastácio P, Gago J, Verrísimo A, Ilhéu M, Diniz A, Gkenas C, Ribeiro F. On-line "catches": information collection opportunities regarding fish invasions in freshwaters.
- 11h30 **Rodríguez-Gómez V**, Arranz JC, Alberruche ME, Fernández-Naranjo FJ, Rodríguez-Pacheco R, Vadillo L. Metodología para la evaluación del potencial de contaminación de las aguas superficiales de los residuos mineros abandonados.
- 11h45 **Blanco Perez E**, Oliveira AS, Augusto FG, Santos GD, Santos LAF, Neves EC, Mello ACP, Camargo PB. Aplicação de um plano diretor em um campus universitário como instrumento de gestão visando o uso racional de recursos hídricos.

Room C

SEI- Filipe AF, Feio MJ, Almeida S

- Filipe AF**, Martins FMS, Ramião JP, Garcia-Raventós A, Paupério J, Ferreira S, Hermoso V, Monaghan MT, Magalhães MF, Beja P. Delineating freshwater monitoring networks using eDNA metabarcoding.
- Clusa L**, Miralles L, Basanta A, Escot C, García-Vázquez E. eDNA for detection of highly invasive molluscs in Europe.
- Gauthier M**, Lefebure T, Elbrecht V, Konecny L, Nguyen A, Douady C, Dátry T. Development of bait capture for DNA enrichment for metabarcoding purposes: a robust alternative to PCR-based methods?
- Ardura A**. The application of eDNA and HTS as tools to analyze the biodiversity in fragile ecosystems.
- Rivera SF**, Vasselon V, Tapolczai K, Rimet F, Bouchez A. Diatom metabarcoding for biomonitoring: an overview.

Coffee

SEI- Filipe AF, Feio MJ, Almeida S

- Sáinz-Bariáin M**, Vieites D, Barquín J. The use of eDNA in river ecosystems to design environmental indices.
- Múrria C**, Wangenstein OS, Somma S, Väisänen LOS, Arnedo MA, Prat N. Metagenomic analysis of macroinvertebrates along the Llobregat river (NE-Iberian Peninsula) and its use for biomonitoring.
- Cordeiro RI**, Luz R, Pimentel M, Cardoso A, Vasconcelos V, Gonçalves V, Fonseca A. Azorean extremophile cyanobacteria and their cyanotoxin production potential.

12h00 **Gacia E**, Bernal S, Carreras E, Nikolakopoulou M, Ribot M, Isnard M, Sabater F, Sorolla A, Martí E. Elemental stoichiometry and contribution to nutrient retention of four species of helophytes receiving water inputs from a wastewater treatment plant effluent.

12h15 **Campo R**, Guerrero M, Freixinos Z, Guerrero C, Martí E, von Schiller D, Gómez R. Preconditioning of leaves during the dry period alters ecosystem functioning in intermittent streams upon rewetting: an in-situ BACI experiment

12h30 **Morales EA**, Trujillo I, Rodríguez I, Novais MH, Barbosa LC, Morais MM. The use of diatoms (Bacillariophyta) as indicators of water quality in an intermittent, urban and highly polluted river in Bolivia.

12h45 Lunch

14h15 **Cañedo M**. Emerging questions in freshwater salinization.

SE8 - Barbosa L, Detry T, von Schiller D

15h00 **Novais MH**, Penha MA, Morales EA, Oliveira A, Bouchez A, Barthès A, Usseglio-Polatera P, Várбірó G, Morais MM. Effects of water intermittency on diatom (Bacillariophyta) and invertebrate (aquatic and terrestrial) communities in streams of southern Portugal.

15h15 Smeti E, von Schiller D, Lashou S, Vardakas L, Tornés E, Theodoropoulos C, Vourka A, Andriopoulou A, Koutsodimou M, Anastasopoulou E, Karaouzas I, Sabater S, Elosegi A, Skoulikidis NT & **Kalogianni E**. Effects of agro-industrial pollution on biota and ecosystem functioning in an intermittent river (Evrotas, Greece).

15h30 **Sarremejane R**, Cid N, Cañedo-Argüelles M, Cordero-Rivera A, Csabai Z, Detry T, Gutiérrez-Cánovas C, Heino J, Millán A, Paillex A, Paril P, Stubbington R, Figueroa JM, Usseglio-Polatera P, Zamora-Muñoz C, Bonada N. Biological traits reveal contrasting aquatic invertebrate dispersal strategies in perennial and intermittent rivers.

15h45 **Sánchez-Montoya MM**, Ruhí AA, von Schiller D, Miñano J, Catarinau C, Lencia JL, Barberá CG, Tockner K. Metacommunity dynamics of ground-dwelling arthropods in intermittent streams over the drying phase.

16h00 Coffee

Ramos-Fuertes A, Vega JC, Palau A, Armegol J, Casasola A, Rodríguez A, Dolz J. Thermal response of Sanabria Lake to global change (Duero catchment, Zamora, Spain).

Oficialdegui FJ, Roessink I, Biron DG, Lejeune AH, Boyero L, Clavero M, Green AJ, Peeters ETHM, Sánchez MI. A multidisciplinary study to understand inter- and intraspecific agonistic interactions between two invasive species of freshwater crayfish.

Gama M, Banha F, Anastácio P. Invasive species distribution modelling: effectiveness of different environmental/antropogenic variables and forecasts of climate change impacts.

SR14 - Menéndez M

Fejjó C, Hegoburu C, Messetta ML, Anselmo J, di Franco L, Gómez A, Falabella A, Guerra-López J. Changes in land use and nutrient level in streams from a region subjected to agricultural intensification (Argentine Pampas) between 2003 y 2015.

Puche E, González A, Martínez R, Martínez N, Sánchez-Carrillo S, Álvarez-Cobelas M, Rodrigo MA, Rojo C. Modulation of the horizontal food web mediated by the response of charophytes to global change stressors: a mesocosm experiment.

Silva FA, **Giani A**. Population dynamic of bloom-forming *Microcystis aeruginosa* in the presence of the invasive bivalve *Limnoperna fortunei*.

Ferrarez L, Franca R, Vendramini B, **Brandimarte A**. Chironomidae na colonização de detritos em riachos de Mata Atlântica e Cerrado.

Coffee

Room B

- 12h00 **Castro D**, Cardiel O, Guerra V, Prat N. Evaluation of the community of benthic macroinvertebrates. The first step to construct an overall protocol to determine the ecohydrological state of the Pesqueria River (NE, Mexico).
- 12h15 Delgado J, Cillero C, Juncosa R, **Cereijo JL**, Vidal R, Vázquez R. Embalse de Abegondo-Cecebre. Un sistema de abastecimiento humano monitorizado en continuo mediante sondas de alta frecuencia.
- 12h30 **Doña C**, Morant D, Picazo A, Rochera C, Sánchez JM, Camacho A. Monitoring hydrological patterns in Lake Alcahozo by remote sensing techniques and meteorological data.

12h45 Lunch

SR4 - Marcé R

- 15h00 **Pascoal C**, Cássio F. Biodiversity and stream ecosystem functioning under global change: insights from detrital food webs.
- 15h15 **Medeiros AO**, Hepp LU, Almeida JSD, Rezende RS, Junior JFG, Moretti MS, Moretto Y, Loureiro RC, Medeiros CC, Leite G, Kiffer Junior WP, Costa LC, Lourenço DK. The colder best: in Brasil, subtropical zones increase the aquatic hyphomycetes diversity compared to tropical zones.
- 15h30 **Mejías M**, Santofimia E, López-Pamo E, Ruiz JM. Hidrología del humedal del Parque Nacional de Las Tablas de Daimiel (Ciudad Real, España).
- 15h45 **Benassi RF**, Jesus TA, Coelho LHG, Hanisch WS, Domingues MR, Pompêu MLM, Carlos VM. Fluxos de CH₄ e CO₂ e suas relações com poluição urbana em reservatório da região metropolitana de São Paulo, Brasil

16h00 Coffee

Room C

- Martins FMS**, Galhardo M, Teixeira A, Pinheiro P, Filipe AF, Alves PC, Beja P. Improving freshwater biodiversity assessment: application of molecular tools on preservative ethanol from macroinvertebrate bulks.
- Fais M, **Duarte S**, Sousa R, Hajibabaei M, Canchaya CA, Costa FO. Metabarcoding of meiobenthic estuarine communities: optimization of protocols.
- García-Raventós A**, Martins FMS, Magalhães MF, Ramião JP, Ferreira M, Carona S, Carvalho F, Sousa R, Froufe E, Teixeira A, Varandas S, Lima M, Beja P, Filipe AF. Multiple introductions and first record of *Phoxinus phoxinus* in the Douro Basin revealed by molecular data.
- SEI- Filipe AF, Feio MJ, Almeida S**
- Pujante AM**, González R, Rojo V, Vierna J, Nieminen M, Hammers M. Development of novel metabarcoding approach to benthic macroinvertebrates species identification.
- Calapez AR**, Elias C, Pereira A, Alves A, Almeida S, Feio MJ. Molecular evidences of biofilm responses to multiple-stressors: community shifts induced by flow stagnation, organic loads and grazing.
- Díaz de Quijano D**, Kolmakova O, Trusova M, Ivanova EA. Phytoplankton community before and after ice-and-snow cover formation in a South Central Siberian mountain lake.

- Mortágua A**, Vasselon V, Oliveira R, Elias C, Chardon C, Bouchez A, Rimet F, Feio MJ, Almeida SFP. DNA metabarcoding approach as a complementary technique for assessment of Portuguese rivers using diatoms.

Coffee

Tuesday, 26

Auditorium

SR9/10 - Felpeto AB

- 16h30 **Felpeto AB**, Roy S, Ferreira C, Vasconcelos V. The interplay of allelopathy and nutrient competition as drivers of phytoplankton community dynamics.
- 16h45 **Oliveira U**, Pinheiro C, Vieira N. Assessment of the microphytobenthic community dynamics in Sousa River.
- 17h00 **Macek M**, Medina XS. *Spirostomum teres* planctónico en el hipolimnion anóxico.
- 17h15 **Fenoy E**, Pradhan A, Batista D, Pascoal C, Cássio F, Moyano FJ, Casas JJ. Effects of taxonomic and functional diversity of hyphomycetes on leaf litter decomposition.
- 17h30 **Carvalho e Silva I**, Lycarião TA, Costa DF, Dantas EW. Turnover fícorperifítico: influência do substrato ou dos fatores abióticos?

17h45 Posters

- 18h15 AIL General Assembly

Thursday, 28

Auditorium

- 8h45 **Pringle C**. Climate-driven changes in hydrologic connectivity and emergent ecological effects in Neotropical streams: Long-term studies in Costa Rica and Puerto Rico

SRI - Lopez-Doval J

- 9h30 **Cássio F**, Carvalho F, Pradhan A, Abrantes N, Pascoal C. Ecotoxicological effects of wildfires on freshwater decomposers.
- 9h45 **Araújo CVM**, Roque D, Blasco J, Ribeiro R, Moreira-Santos M, Toribio A, Aguirre E, Barro S. Adding habitat selection responses to ecological risk assessments: the heterogeneous multi-habitat assay system (HeMHAS).

Room A

SRI4 - Feijóo C

- Pérez-Martínez C**, Jiménez L, Moreno E, Ramos-Rodríguez E, Conde-Porcuna JM. Cladoceran and diatom assemblage distribution in alpine lakes of Sierra Nevada (Spain) and its relationship to environmental variables.
- Marques HS**, Raposeiro PM, Hernández A, Pueyo JJ, Sáez A, Giral S, Bao R, Gonçalves V. Diatom-based environmental reconstruction in Lake Caveiro (Azores archipelago) during the Mid and Late Holocene: preliminary results.

Genua-Olmedo A, Alcaraz C, Temmerman S, Ibáñez C. Evaluating nature-based adaptation options to sea level rise and benefits to agriculture in a deltaic area.

Pereira A, Ferreira V. Litter decomposition and associated fungal decomposers are affected by forest streams invasion by *Acacia spp.*

Posters

Room A

SEII - Encina L, Capítulo AR

- Encina L**, Rodríguez A. Lecciones desde la biología pesquera: Evolución hacia el estudio de los embalses.
- Escot C**. Julia Toja Santillana: de la Limnología a la empresa.

Room B

SR4 - Pascoal C

16h30 **Marcé R**, von Schiller D, Aguilera R, Martí E, Bernal S. Contribution of hydrologic opportunity and biogeochemical reactivity to the variability of nutrient retention in river networks.

16h45 **Ferreira V**, Boyero L, Calvo C, Correa F, Figueroa R, Gonçalves Jr. JF, Goyenola G, Graça MAS, Hepp LU, Kariuki S, López-Rodríguez A, Mazzeo N, M'Erimba C, Monroy S, Peil A, Pozo J, Rezende RS, Teixeira-de Mello F. Streams in eucalyptus plantations – still heterotrophic but no longer the same.

17h00 **Arenas Ibarra JA**. Dinámica limnológica en un tramo transicional de la cuenca del río Huallaga (Huánuco-Perú).

17h15 **González del Tánago M**. Hydromorphological conditions of rivers in Madrid Region (Central Spain)

17h30 Posters

Room C

SR5 - Barquín, P

Verkaik I, Fortuño P, Gallart F, Espelta JM, Prat N. Managed ecosystems in the Mediterranean: is it possible to have it all?

Ávila-García D, Morató J. Sistemas naturales de tratamiento de agua para disminuir la vulnerabilidad climática en el Departamento del Cauca, Colombia.

Portela AP, Vieira C, Carvalho-Santos C, Gonçalves J, Honrado J. Integrating habitat conservation and hydrological services for improved river management: assessing spatial congruence and trade-offs in N Portugal.

D'Alessandro ME, Collins P. Manipulación nutricional en el camarón *Macrobrachium borellii* como recurso en la alimentación humana.

Posters

Room B

SR15 - Elosegí A

9h30 Azevêdo DJS, Bezerra-Neto JF, Molozzi J, **Feio MJ**. Rehabilitation scenarios for reservoirs: predicting aquatic communities through machine learning.

9h45 **González-Ferreras AM**, Alonso C, Barquín J. Spatial variability of *Salmo trutta* at river network scale. What variables are influencing population structure?

Room C

SE3 - Obrador B, Catalán N, Marcé R, Gómez-Gener L

Obrador B, Gubau M, von Schiller D, Marcé R, Gómez-Gener L. When size matters: net carbon footprint of hydropower is highly impacted by in-reservoir carbon fluxes

Moulton T, Aguiar A, Lisboa L, Neres-Lima V. How much of the total allochthonous input and autochthonous production is incorporated into the A(metazoan) food chain of streams? Not much!

Auditorium

10h00 **Vera-Vera V**, Griffith DM, Jentzsch PV, Cervera L, Nieto B, Salvatierra D, Erazo S, Jaramillo R, Ramos L, Moreira-Santos M, Ribeiro R, Araújo CVM. Selección de hábitat como línea de evidencia para evaluar las perturbaciones ambientales en un sistema lótic.

10h15 Santos M, Oliveira H, Pereira MJ, Gonçalves FJM, **Vidal T**. Bacterial community as a complementary tool to WFD in Ecological Quality Assessment of Caima River.

10h30 **Simão F**, Gravato C, Soares A, Pestana J. PAH effects on the sexual reproduction and offspring of a freshwater planarian.

10h45 Coffee

SRI - Cássio F

11h15 Silva C, Macário IE, Oliveira B, Gonçalves FJM, Castro BB, **Pereira JL**. Feeding behaviour of *Corbicula fluminea*: a sensitive endpoint for ecotoxicological assessment and refinement of chemical control.

11h30 **Gabriel A**, Costa S, Henriques I, Lopes I. Effects of continuous exposure to increased salinity in the amphibian skin bacterium *Erwinia toletana*.

11h45 Mesquita A, Gonçalves FJM, Marques JC, **Gonçalves AMM**. Impacts of Primextra Gold®TZ and copper sulphate on the fatty acids profile of the estuarine species *Cerastoderma edule*.

12h00 **Bordalo M**, Gravato C, Fernandes S, Rodrigues A, Lopes I, Pestana J. Are microbial insecticides environmental friendly? Effects on a freshwater insect species.

12h15 Marques CA, Junqueira I, Pereira R, Gonçalves FJM, **Marques SM**. A biochemical approach to understand how abiotic alterations related to climate change can affect early life stages of Iberian green frog.

12h30 **Gonçalves S**, Kahlert M, Figueira E, Almeida SFP. Assessing Zn and Cu impacts on freshwater diatoms: physiological, biochemical and metabolomic responses of *Tabellaria flocculosa* (Roth) Kützing,

12h45 Lunch

Room A

Alonso M. Dos factores de gran valor estratégico para el desarrollo de la Limnología en España: Ramón Margalef y un amplio y diverso patrimonio de embalses.

Granado C. Fishes and reservoirs

García de Jalón D., González del Tánago M. Are Large Dams responsible for Riparian Vegetation Encroachment in Mediterranean rivers?

Coffee

SR7 - Millán A

Callisto M, Castro DMP, Solar R. Invertebrates conservation in headwater streams along an altitudinal gradient in a snow-free tropical mountain.

Pinheiro C, Oliveira U, Vieira N. Assessment of Sousa River's Ecological Quality.

Fernández S, Rodríguez-Martínez S, Martínez JL, Borrell YJ, Ardura A, García-Vázquez E. Could eDNA really help in changing current assessment of freshwater quality bioindicators?

Martínez-Megías C, Santiago JM, García de Jalón D. Respuesta de las comunidades macrobentónicas al cambio de temperatura del agua en el alto Manzanares y su posible relación con el cambio climático.

Breda M, Milesi SV, Restello RM, Hepp LU. Spatial position and riparian vegetation affect the functional feeding groups of stream Trichoptera in Southern Brazil.

Jeremias G, Barbosa J, Marques SM, De Schampelaere K, Van Nieuwerburgh F, Deforce D, Gonçalves FJM, Pereira JL, Asselman J. Transgenerational effects of salinity stress in *Daphnia magna*: the role of epigenetic mechanisms.

Lunch

Room B

- 10h00 **Da Silva J**, Matono P, Sousa-Santos C, Ilhéu M. Hidden threats of sharing habitats: interactions between native and invasive cyprinids
- 10h15 **Pinto R**, Hein T, Diaz-Pines E, Brito AG. Understanding the effects of hydro-morphological restoration measures on nitrogen cycling in riverine landscapes.
- 10h30 **Machado A**, Fragoso R, Duarte E. Use of different adsorption materials to remove the diuretic drug Furosemide.

10h45 Coffee

SRI5 - Feio MJ

- 11h15 **Elosegi A**, Esnaola A, Arrizabalaga-Escudero A, González-Esteban J, Aihartza J. Un modo de vida frenético: selección de hábitat y de dieta por el desmán ibérico.
- 11h30 **Pérez-Silos I**, Álvarez-Martínez JM, Benda LE, Miller D, Barquín J. Designing a Green Infrastructure Network (GIN) for three Cantabric mountain catchments.
- 11h45 **Atristain M**, Larrañaga A, von Schiller D, Elosegi A. DESEMBALSE: effects of decommissioning a large reservoir (Enobieta, Navarre, Iberian Peninsula) on stream biodiversity and ecosystem functioning.
- 12h00 **Reis L**, Piccolo M, Camargo P, Gaudio F, Costa C, Figueiredo R. Análise isotópica como instrumento no estudo da restauração de nascentes.
- 12h15 **Gutiérrez D**, García D, Martínez Y, Álvarez-Troncoso R, Méndez C, Soto B, Pombal MA, Garrido J. Preservation and environmental assessment of the Minho river cross-border

12h30

12h45 Lunch

Room C

Messetta ML, Hegoburu C, Casas Ruiz JPC, Butturini A, Feijó C. Characterization and transformation of dissolved organic matter in a pampean stream.

Morant D, Picazo A, Rochera C, Miralles-Lorenzo J, Santamans AC, Castillo-Escriva A, Doña C, Camacho A. Current Rates of Carbon Processes and their Response to Climate Change in Mediterranean Coastal Marshes

Light T, Catalán N, Marcé R. Carbon dynamics in drying sediment from the Siurana Reservoir, Catalonia, Spain

Coffee

SE3 - Obrador B, Catalán N, Marcé R, Gómez-Gener L

- Gómez-Gener L**, Lupon A, Leach J, Brekenfeld N, Krause S, Laudon H, Sponseller R. Carbon cycling in a boreal temporary stream: insight from an experimental hydrological manipulation
- Miralles-Lorenzo J**, Morant D, Rochera C, Picazo A, Castillo-Escriva A, Santamans AC, Florin M, Mesquita F, Camacho A. Cambios en el perfil metabólico de las comunidades microbianas acuáticas de diferentes lagunas de España a lo largo de un gradiente de salinidad.
- León-Palmero E**, Morales-Baquero R, Reche I. CO₂ and CH₄ fluxes in Mediterranean reservoirs: oxygen and methane sobersaturation coupled in epilimnion.
- Estévez E**, Álvarez-Martínez JM, Barquín J, Singer GA. Effects of catchment land cover on fluvial dissolved organic matter composition.
- Khan H**, Marcé R, Laas A, Obrador B. Effects of alkalinity and trophic state on the relationship between metabolism and carbon fluxes in lakes
- Catalán N**, Attermeyer K, Freixa A, Szeckely A, Groeneveld M, Hawkes JA, Eirnarssdóttir K, Tranvik LJ. Organic matter ageing in lakes: exploring the link between water residence time and microbial function

Lunch

Auditorium

14h30 **Miró M**, Ventura M. (Thesis Award). Fish as local stressors of Pyrenean high mountain lakes: arrival process and impact on amphibians and other organisms

SRI - Pereira L

15h00 **Seena S**, Olimpia S, Ainara C. Impact of metals on aquatic fungal metabolites and gene expression.

15h15 **Sobral O**, Ribeiro R, Rebelo M. Effects of copper stress on three metabolic pathways in *Daphnia magna*: a gene expression profile.

15h30 **Jesus F**, Gonçalves AMM, Schamphelaere KD, Pereira J, Ventura S, Coutinho JAP, Gonçalves FJM. Toxicity of binary mixtures of ionic liquids and salts to the microalga *Raphidocelis subcapitata*.

15h45 **Sossey K**, Tychon B, Joachim S, Nott K, Porcher J, Geffard A, Beaudouin R, Baudoin P, Rober C, Fauconnier ML, Matthew S. Effects of 5 pharmaceutical substances on bryophyte *Fontinalis antipyretica* Hedw biomarkers and growth.

16h00 **Coffee**

SRI - Seena, S.

16h30 **López-Doval JC**, Romero F, Sabater S. Responses of ciliates and micrometazoans to chemical and physical stressors in artificial rivers.

16h45 **Batista D**, Pascoal C, Cássio F. Dietary exposure and temperature affect the toxicity of AgNPs to aquatic invertebrate shredders.

17h00 Ré A, Saraiva M, Puga J, Campos I, Pereira JL, Keizer JJ, Gonçalves FJM, **Abrantes N**. Assessment of wildfires impacts on aquatic ecosystems: *in situ* bioassays.

17h15 **Arenas-Sánchez A**, López I, Nozal L, Vighi M, Rico A. Combined effects of increasing temperatures, drought and an insecticide on freshwater zooplankton communities: a microcosm study.

17h30 **Posters**

18h45 **Taichi & 5 km run**

21h00 **Dinner**

Room A

SE11 - Encina L, Capítulo AR

Rodrigues Capítulo AR. Actividades científico-académicas de la Dra. Julia Toja Santillana en el cono sur de América.

Soria JM, Soria X, Urrego P, Pereira-Sandoval M, Ruíz-Verdú A, Peña R, Delegido J, Vicente E. Estima de la calidad en masas de agua oligotróficas mediante imágenes de Sentinel-2

Vicente E, Soria-Perpinyà X, Soria JM, Sendra MD, Kramer O, Rodríguez MJ, Sancho-Tello V. Evolución del estado trófico en embalses de la cuenca del Ebro: veinticinco años de estudios.

Toja J. La satisfacción que da la experiencia de hacer ciencia y aplicarla.

Coffee

SR7 - Callisto M

Serpa K, De Martin G, Penha L, Rangel J, **Kiffer Jr. W**, Moretti M. Do seasonal changes in leaf vertical inputs influence the composition of leaf patches and invertebrate assemblages in Atlantic Forest streams?

Estragnat V, Mermillod-Blondin F, Jully M, Lemoine D, Lassabatère L, Volatier L. Grazer introduction to restore and preserve the hydraulic performance of infiltration basins clogged by benthic biofilms.

Márquez FJ, Ortega F, Álvarez-Manzaneda I, Guerrero F. Caracterización de los humedales de montaña de las cordilleras Béticas andaluzas a partir de las comunidades de macroinvertebrados

Saito VS, Pereira RC, Santos E, Bini LM, Pavoiné S, Siqueira T. The unmet promise: Tackling problems in predicting aquatic insect abundance and distribution using functional traits

Posters

Room B

SE10 - Boavida I, Costa MJ

- 15h00 **Boavida I**, Rivaes R, Santos JM. Transferability of environmental flows: a case-study in a Mediterranean river.
- 15h15 **Jesus J**, Teixeira A, Natário S, Carrola J, Varandas S, Pereira LT, Cortes RMV. Efeitos de barreira comportamental seletiva com estímulos acústicos, luz e bolhas, no salmão: *S. trutta* e ciprinídeos: *P. duriense* e *L. bocagei*
- 15h30 **Alexandre CM**, Almeida PR, Costa JL, Quintella BR. Impact of flow regulation on the composition and functional structure of fish assemblages.
- 15h45 **Fuentes-Pérez JF**, Tuhtan JA. Measuring flow complexity from fish perspective: Challenges and opportunities to impact assessment.

16h00 Coffee

SE10 - Boavida I, Costa MJ

- 16h30 **Costa MJ**, Boavida I, Pinheiro A. The consequences of pulsed flows to freshwater fish: challenges and solutions.
- 16h45 Belmar O, **Vila N**, Ibáñez C, Caiola N. Linking fish-based biological indicators with hydrological dynamics in a Mediterranean river: relevance for environmental flow regimes.
- 17h00 **Hayes DS**, Greimel F, Haslauer M, Fuhrmann M, Zeiringer B, Höller N, Friedrich T, Hauer C, Ferreira T, Schmutz S. Response of Fish Communities to Hydropeaking along a Morphological Gradient.
- 17h15 **Díaz-Redondo M**, Marchamalo M, Morcillo F. Biogeomorphic effects of the renaturalization of an urban river: the Manzanares River in the city of Madrid (Spain)

17h30 Posters

Room C

SE5 - Pereda O

- Pereda O**, Acuña V, Casellas M, Romero F, Sabater L, von Schiller D, Sabater S, Elosegi A. Effects of waste water treatment plant (WWTP) effluents on stream ecosystem functioning: insights into the Subsidy-Stress hypothesis.
- von Schiller D**, Atristain M, Barrado M, Guzmán I, González JG, Larrañaga A, Pereda O, Pérez-Calpe AV, Solagaistua L, Elosegi A. Polluting a stream for the sake of science: an ecosystem manipulation experiment on the ecological effects of WWTP effluents.
- Guzman I**, Solagaistua L, Barrado M, Larrañaga A, von Schiller D, Elosegi A. Effects of wastewater treatment plant effluent on the detrital Pathway.
- Romero F**, Acuña V, Casellas M, Pereda O, Sabater L, Font C, Sabater S. Subsidy-stress response of river biofilm communities to wastewater treatment plant (WWTP) effluent and its interaction with desiccation.

Coffee

SE5 - Pereda O

- Lemes-Silva AL**, Lemes WP, Lopes M, Petrucio MM. Change of a stream ecosystem function along a forest-to-urban gradient transition: Integrating riparian and in-stream characteristics.
- Herrero Ortega S**, Gessner MO, Singer G, Casper P. Mineralization of sediment organic matter to CH₄ and CO₂ in urban freshwater bodies.
- González-Paz L**, Almeida SFP, Feio MJ, Pardo I, Oliveira R, Delgado C. Succession of biofilm colonization during an experiment in a eutrophic urban pond.

Posters

8h45 Danger M. Ecological stoichiometry in detritus-based headwater streams: current knowledge and perspectives.

SE7 - Sánchez-Fernández D, Gutiérrez-Cánovas C, Bonada N

9h30 Bonada N, Dolédec S. Does the Tachet trait database report voltinism variability of aquatic insects between Mediterranean and Scandinavian regions?

9h45 Belmar O, Bruno D, Guareschi S, Mellado-Díaz A, Millán A, Velasco J. Flow intermittence shapes the effect of flow regulation on macroinvertebrate functional structure and diversity in Mediterranean streams

10h00 Viza A, Garcia-Raventós A, Martín R, Maynou X, Prunier F, Riera JL, Múrria C. Predicting future species distribution of Odonata in Iberian Peninsula under Climate Change.

10h15 Prat N, Acosta R, Cañedo-Argüelles M, Castro D, Cid N, Fortuño P, Gutiérrez-Cánovas C, Múrria C, Soria M, Tarrats P, Verkaik I, Bonada N. Long-term changes in metacommunity assembly mechanisms in Mediterranean rivers.

10h30 Castillo-Escrivà A, Pereira CL, Sroczynska K, Faisca P, Araújo MB, Matias M. Zooplankton responses to environmental changes across a biogeographical gradient.

10h45 Coffee

SE7 - Sánchez-Fernández D, Gutiérrez-Cánovas C, Bonada N

11h15 Gutiérrez-Cánovas C, Sánchez-Fernández D, Millán A, Velasco J, Cañedo-Argüelles M, Bonada N. Do all roads lead to Rome? Exploring community trajectories in response to anthropogenic salinisation and dilution of rivers.

11h30 Mesquita-Joanes F, Castillo-Escrivà A, Rueda J. Incorporating time effects when analysing (aquatic) metacommunities.

11h45 Pinto R, Mortágua A, Almeida SFP, Serra S, Feio MJ. Diatom size plasticity at the global and regional spatial scales

12h00 Matias MG. IberianPonds: Predicting responses to climate change from genes to ecosystem services.

12h15 AGRHYDROM project
Campo R

12h45 Closing session

SE6 - Aguiar FC, Fernandes MR

Aguiar FC, Fernandes MR, Martins MJ, Ferreira MT. Surveying the past on reliquial habitats: the Guadiana River in the post-Alqueva era.

Bergmann M, Caro C, Quirós R, Olivieri DG. Macroinvertebrados como catalizadores para la gestión ambiental de los ríos.

Zinke P, Dervo B. Implementation of fluvial hydraulics and structure parameters into the nature classification system "Nature in Norway".

Amaral SD, Branco P, Romão F, Viseu T, Ferreira MT, Pinheiro AN, Santos JM. Upstream movements of a potamodromous cyprinid past an experimental broad-crested small weir.

Lozanovska I, Ferreira MT, Aguiar FC. Predictors of functional change in riverine landscapes: multiple ways and approaches.

Coffee

SE6 - Aguiar FC, Fernandes MR

Fernandes MR, Santos A, Aguiar FC, Branco MR, Ferreira MT. Historical cartography as bases for studying changes of pollinator services in riverine landscapes.

Duarte G, Segurado P, Oliveira T, Haidvogel G, Pont D, Ferreira MT, Branco P. The River Network Toolkit.

Room C

8h45

SR3 - Moretti M

- 9h30 **Barbosa P, Casotti C, Costa L, Ferraz M, Kiffer Jr W, Moretti M.** Trophic interactions between macroconsumers and insect shredders: understanding the role of freshwater shrimps in leaf processing
- 9h45 **Solagaistua L, Larrañaga A.** Consumption and post-consumption effects of *Echinogammarus berilloni* resource selection: relevance of the duration of the incubation.
- 10h00 **Ersoy Z, Bartrons M, Mehner T, Brucet S.** Recovery rate of zooplankton community structure after stop of fish predation.
- 10h15 **Rubio-Ríos J, Fenoy E, Salinas MJ, Moyano-López FJ, Casas JJ.** Coprophagia can mitigate low food quality for *Echinogammarus* in lowland headwater streams invaded by *Arundo donax* L. (Poaceae)

10h30

10h45 Coffee

SR3 - Moretti M

- 11h15 **Sroczyńska K, Pereira C, Faisca P, Araújo M, Matias M.** Understanding trophic structure of freshwater ponds across macroecological gradients using stable C and N isotopes.
- 11h30 **Montagud D, Soria JM, Sendra MD, Soria X, Vicente E.** Revisión del Índice Trófico del Fitoplancton en Embalses (PRTI) en la cuenca del Ebro a partir de la densidad y biomasa algal.