

ORAL PRESENTATIONS

Listed by Session / Day / Block / Slot • Room

GSA. Enhancing Inclusivity, Ethics, and Societal Impact in Science

Tuesday, 3 June, morning (second) • Room: Cova dos libros

- 12:45: **SARA GAMBOA** [GSA-O-1] "*Blood Work: Exploring Menstruation's Impact on Natural Science Fieldwork*"
 13:00: **PAULA BRUNA PÉREZ** [GSA-O-2] "*Embolism "por soleá". A dialog between humans and trees about climate change through flamenco*"
 13:15: **ECOTONS COLLECTIVE / JORDI MARTÍNEZ-VILALTA** [GSA-O-3] "*Art-science residencies at CREAM: lessons learned and prospects*"
 13:30: **MARIA AMÉLIA MARTINS-LOUÇÃO** [GSA-O-4] "*How Ecology Is Defining Today and Building Tomorrow*"
 13:45: **AITOR ALONSO RODRÍGUEZ** [GSA-O-5] "*Exploring power in Sustainability Transition Research: an overview*"
 14:00: **DISCUSSION TIME**

Wednesday, 4 June, morning (second) • Room: Cova dos libros

- 12:45: **CELIA DE LLANOS** [GSA-O-6] "*A network analysis of ecological restoration communities to facilitate knowledge exchange*"
 13:00: **RAFAEL HERNÁNDEZ MAQUEDA** [GSA-O-7] "*Fostering Collective Action: Social perceptions and participatory strategies to combat soil degradation in Abia (Almería)*"
 13:15: **ANNELIES BROEKMAN / MARIA VIVES-INGLA** [GSA-O-8] "*Contributions from the Interreg Euro-MED Natural Heritage Mission towards ecological research impact on society*"
 13:30: **JAVIER BENAYAS** [GSA-O-9] "*Lessons learned from 40 years of educational experiences and social change on environmental and ecological challenges*"
 13:45: **MARCOS DIAS** [GSA-O-10] "*Non-native and invasive plant species in urban streams of Coimbra: effects of urbanization and potential impacts for One Health*"
 14:00: **BERTA JOFRE RODRÍGUEZ / OLIVIA BARRANTES** [GSA-O-11] "*Learning activities for Vet students: livestock grazing for wildfire prevention*"

Thursday, 5 June, morning (first) • Room: Cova dos libros

- 11:00: **SUSANA BERNAL** [GSA-O-12] "*Make visible the invisible obstacles: 10 steps to raise awareness and promote actions towards gender equity through scientific societies and droughts as a fundamental component in river ecology*"
 11:15: **MARÍA HURTADO / PEDRO REBOLLO** [GSA-O-13] "*Well-being of Early-career researchers in ecology*"
 11:30: **MIGUEL GONZÁLEZ XIMÉNEZ DE EMBÚN** [GSA-O-14] "*LGTBIQA+ inclusivity in science: The role of PRISMA association and the situation in SIBECOL*"
 11:45: **ANDREU IBÁÑEZ RODRÍGUEZ** [GSA-O-15] "*Application of living labs in restoration ecology: a systematic map*"
 12:00: **MARÍA TORRES-SÁNCHEZ** [GSA-O-16] "*Promoting open and equitable research for one of the most imperiled animal groups through the Amphibian Genomics Consortium*"
 12:15: **DISCUSSION TIME**

TSA-1. Ecology in education: ecological literacy as a tool to face global change

Thursday, 5 June, morning (second) • Room: Cova dos libros

- 12:45: **ANNA LUPON** [TSA.1-O-1] "*Learning about Climate Change impacts on inland waters and women's roles through art*"
 13:00: **NURIA PISTÓN** [TSA.1-O-2] "*Women, Ecology, and Justice: Bridging Academia and Social Movements*"
 13:15: **POL FERNÁNDEZ-LÓPEZ** [TSA.1-O-3] "*Synergistic Approaches to Reduce School Segregation: Integrating Research and Education for Greater Inclusivity*"
 13:30: **LAURA FORCE** [TSA.1-O-4] "*Empowering Teachers to Bring Students Closer to Nature a Collaborative Approach to Ecology Education*"
 13:45: **SARA VILLÉN-PÉREZ** [TSA.1-O-5] "*Education for a changing world: integrating sustainability into teacher training*"
 14:00: **DISCUSSION TIME**

Thursday, 5 June, after lunch (third) • Room: Cova dos libros

- 15:30: **DANIELA BARRÍA-DÍAZ** [TSA.1-O-6] "*Representations of the Fungi Kingdom in Primary School Children: Implications for the Natural Sciences Curriculum*"
 15:45: **ROCÍO DE TORRE CEJAS** [TSA.1-O-7] "*Biodiversity Between the Tale's Pages: Children's Literature as a Tool for Ecological Literacy*"
 16:00: **CRISTINA FERNÁNDEZ ARAGÓN** [TSA.1-O-8] "*From talk to thought: The power of dialogic interactions in science education*"
 16:15: **ZULEMA VARELA** [TSA.1-O-9] "*Nestled in plastic: public perceptions and the conservation of white storks*"
 16:30: **JAIME FAGÚNDEZ** [TSA.1-O-10] "*Using science to understand the environment: an experiment on vegetation recovery after fire*"
 16:45: **DISCUSSION TIME**

TSA-2. Beyond the Lab: Citizen Science as a Catalyst for Ecological Research and Community Involvement

Monday, 2 June, evening • Room: Seminario 1

- 18:00: **PAULA LOPEZ-SENDINO** [TSA.2-O-1] "*Observadores del mar, the Marine Citizen Science Platform enhancing science-based decisions for ocean conservation*"
 18:15: **MARINA CODINA / MARIA SORIA** [TSA.2-O-2] "*Twenty years of studying catalan river ecosystems through citizen science*"
 18:30: **MÓNICA PINTO** [TSA.2-O-3] "*Using citizen science platforms for biodiversity conservation efforts and co-management in Côa Valley Archaeological Park*"
 18:45: **PAU GUZMÁN MARTÍN** [TSA.2-O-4] "*Contextualized urban green space management enhances butterfly functional diversity*"
 19:00: **IRENE OTAMENDI URROZ** [TSA.2-O-5] "*Biocultural Diversity in rural Spain: an inventory and perspectives from two contrasting regions*"
 19:15: **DISCUSSION TIME**

III SIBECOL & XVII AEET Meeting

Another science is possible: diversity, degrowth, and sustainability in ecological research

- 11:00: MIREIA BANQUÉ CASANOVAS [TSA.2-O-6] "Collaborative initiatives in the study of the health status of Catalan forest ecosystems"
- 11:15: MARIA ISABEL HERMOSO BELTRAN [TSA.2-O-7] "OdM Climate: Citizen Science Monitoring Climate Impacts on Mediterranean Marine Ecosystems"
- 11:30: BRAIS SUÁREZ EIROA [TSA.2-O-8] "The role of public engagement in science in sustainability transitions"
- 11:45: JULIO C. LÓPEZ-DOVAL [TSA.2-O-9] "Beyond cleanup campaigns: "Plastic Pirates - Go Europe!" a Citizen Science project for monitoring and raising awareness of plastic residues in fluvial ecosystems"
- 12:00: MARIA BORRERO RAMOS [TSA.2-O-10] "Bridging education and research to investigate biodegradable packaging materials' impact on aquatic health: A citizen science approach"
- 12:15: ESTER PRAT [TSA.2-O-11] "Citizen contributions to phenology monitoring: the RitmeNatura and FenoCat networks"

GSB. Ecology Across Scales

Tuesday, 3 June, morning (first) • Room: Salón de actos

- 11:00: CELIA GONZÁLEZ LÓPEZ [GSB-O-1] "Identifying areas vulnerable to climate change for benthic fauna across the Southern Ocean through niche marginality and species distribution modeling"
- 11:15: ANTONIO VARGAS-ORDÓÑEZ [GSB-O-2] "Native biocrust bacteria enhances germination of Mediterranean plants under climate change conditions"
- 11:30: LAURA MORALES-SALMERÓN / MARTA GOBERNA [GSB-O-3] "Soil biota responses to simulated drought in Mediterranean ecosystems"
- 11:45: ESTEFANIA MUÑOZ HOYOS [GSB-O-4] "Effect of drought on new carbon incorporation in the soils of a Mediterranean forest"
- 12:00: LUIS R. PERTIERRA [GSB-O-5] "Ecological perspectives of global change in polar regions: trends and knowledge"
- 12:15: CARMEN UREÑA LARA [GSB-O-6] "Carbon and oxygen isotopes in tree rings unveil species-specific response to drought in monospecific and mixed forests"

Tuesday, 3 June, morning (second) • Room: Salón de actos

- 12:45: ALEX RICHTER-BOIX [GSB-O-7] "A global perspective on West Nile Virus host range and reservoir competence"
- 13:00: FRANCISCO JAVIER MUÑOZ GÁLVEZ [GSB-O-8] "Functional trait variability along an aridity gradient in Mediterranean woody plant communities at intraspecific and community levels"
- 13:15: VÍCTOR LECEGUI [GSB-O-9] "Linking Microhabitats and Biogeography: A Look at Soil Biodiversity of Mountain Wetlands"
- 13:30: PATRICIA MORENO-COLOM [GSB-O-10] "Seedling establishment as an ecosystem function composed of multiple ecological networks"
- 13:45: ELYSA SILVA MORALES [GSB-O-11] "Body mass biogeographical patterns in forests: what drives the distribution structure in different taxa in the Mediterranean Basin?"
- 14:00: LAURA MATAS GRANADOS [GSB-O-12] "Species functional traits affect regional and local dominance across western Amazonian forests"

Wednesday, 4 June, morning (first) • Room: Salón de actos

- 11:00: RUBÉN DEL CAMPO GONZÁLEZ [GSB-O-13] "From shredders to microbes: drying shifts biotic controls of leaf litter decomposition in river networks"
- 11:15: CARLES ALCARAZ [GSB-O-14] "River hydrology impacts on coastal fisheries: commercial and ecological benefits of Ebro River"
- 11:30: MARTA M VARELA [GSB-O-15] "Upwelling-induced hydrological perturbation shape seasonal transitions of small eukaryotic plankton"
- 11:45: AURORA M RICART [GSB-O-16] "Quantifying the CO₂ system in a seagrass-dominated coastal shallow embayment"
- 12:00: ANNA TRAVESET [GSB-O-17] "Determinants of island complexity in the context of global change"
- 12:15: SÓNIA LECONTE [GSB-O-18] "Niche modelling of Iberian ants: Where to look for them when we hardly know them?"

Wednesday, 4 June, morning (second) • Room: Salón de actos

- 12:45: LAURA FIGUEROLA-FERRANDO [GSB-O-19] "Fine-scale ensemble Species Distribution Modelling of the endangered octocoral *Corallium rubrum* using combined approaches to reduce uncertainty"
- 13:00: ROBERT CASSIDY / LAURA DE LA CRUZ [GSB-O-20] "Genomic connectivity and adaptation signals of the freshwater sponge *Ephydatia muelleri* across its distribution"
- 13:15: MARÍA VICTORIA JIMÉNEZ FRANCO [GSB-O-21] "Movements of yellow-legged gulls (*Larus michaellis*) during the breeding season: between marine and terrestrial environments and between natural and anthropogenic areas"
- 13:30: REBECA GARCÍA ROLDÁN / LAURA E. GANGOSO DE LA COLINA [GSB-O-22] "Early-life conditions affect natal dispersal decisions in a highly specialized colonial breeding falcon"
- 13:45: ANDY J. GREEN [GSB-O-23] "The importance of greylag geese as seed dispersers of dry-fruited plants, and the impacts of global change"
- 14:00: MARIANA ESTORNINHO [GSB-O-24] "Modeling Ecological Succession and Time of Surface Exposure in Extreme Environments: First Findings in the Pyrenees"

Thursday, 5 June, morning (first) • Room: Salón de actos

- 11:00: ESTELA ROMERO [GSB-O-25] "Can natural systems curb human impacts? The case of N in a small Mediterranean river basin"
- 11:15: SARA PINEDA ZAPATA [GSB-O-26] "The role of short rotation plantations in landscape connectivity across Natura 2000 networks"
- 11:30: DANIEL BRAGG [GSB-O-27] "The importance of initial soil organic carbon values in designing farming practices to ameliorate soils in the Mediterranean arable fields"
- 11:45: JORGE ALDEA MALLO [GSB-O-28] "Influence of mixed stands on the defensive investment of adult *Pinus sylvestris* L."
- 12:00: MIGUEL HURTADO MARTÍNEZ [GSB-O-29] "Effect of Soil Extracts of *Maytenus senegalensis* Shrubs on Seed Germination Under Contrasting Climatic Conditions"
- 12:15: PABLO RODRÍGUEZ LOZANO [GSB-O-30] "Contrasting the ecological value of non-perennial streams for terrestrial vertebrate fauna across different hydrological phases"

Thursday, 5 June, morning (second) • Room: Salón de actos

- 12:45: JAIME MADRIGAL GONZÁLEZ [GSB-O-31] "The vagrant lichen *Cladonia rangiformis* as a key driver of herbaceous plant assemblages in central Iberian Peninsula"

- 13:00: **BLANCA ARROYO-CORREA** [GSB-O-32] "*Plant spatial configuration and pollinator behavior, alongside neutral processes, are key to predicting plant–pollinator network structure*"
- 13:15: **JORDI MARGALEF-MARRASE** [GSB-O-33] "*Climatic Disequilibrium and Canopy-Recruit Plants Interaction*"
- 13:30: **MARÍA TORRES-SÁNCHEZ** [GSB-O-34] "*The amphibian holobiont after the impact of Batrachochytrium fungi*"
- 13:45: **NEREA PIÑEIRO JUNCAL** [GSB-O-35] "*Evidence that seagrass presence increases benthic organic carbon, pollutant retention and biodiversity: A metanalysis of studies that presented paired control data*"
- 14:00: **MARKEL GÓMEZ LETONA** [GSB-O-36] "*A global atlas of respiration rates in the mesopelagic ocean*"

TSB-1. The impact of Global Change on Plant-based species interactions

Monday, 2 June, evening • Room: Seminario 3

- 18:00: **PEDRO VALLE-ROMERO** [TSB.1-O-1] "*Effect of priming and PGP-bacterial inoculation on salt stress tolerance in halophytes*"
- 18:15: **MARÍA ROCÍO MARTÍN-PELÁEZ** [TSB.1-O-2] "*Unveiling the impact of a complex environmental matrix predicted by climate models, implementing plant-endophyte interaction on the halophyte *Sarcocornia perennis**"
- 18:30: **JORGE PRIETO-RUBIO** [TSB.1-O-3] "*Plant-mycorrhizal fungi association outcomes across climatic disequilibrium scenarios*"
- 18:45: **SUSANA RODRÍGUEZ ECHEVERRÍA** [TSB.1-O-4] "*Root-associated fungal communities in small islands around the world*"
- 19:00: **ELENA DOLORES DÍAZ SANTIAGO** [TSB.1-O-5] "*Assembly of Soil Microbial Communities Under *Maytenus senegalensis* Shrubs Across Contrasting Habitats in Its Native Range*"
- 19:15: **GINÉS RODRÍGUEZ** [TSB.1-O-6] "*Leaf damage by insects and pathogens change with aridity in Mediterranean forests*"

Tuesday, 3 June, morning (first) • Room: Seminario 3

- 11:00: **SAMUEL PRIETO BENÍTEZ** [TSB.1-O-7] "*Effects of global warming and atmospheric pollution on Mediterranean high mountain pastures: searching for new risk indicators to help their conservation*"
- 11:15: **RAQUEL DÍAZ BORREGO** [TSB.1-O-8] "*Recruits climatic disequilibrium is determined by adult resilience after drought-induced dieback in Mediterranean shrublands*"
- 11:30: **ELANSURYA ELANGOVAN VENNILA** [TSB.1-O-9] "*Trait dissimilarities and hierarchies in crop-weed competition: Effects on crop productivity under experimental drought*"
- 11:45: **ALBA RODRÍGUEZ PARRA** [TSB.1-O-10] "*Soil water availability shape competitive interactions in a diploid-polyploid complex*"
- 12:00: **ANTONIO JESÚS PEREA MARTOS** [TSB.1-O-11] "*Using directed multilayer networks to unravel keystone species in perturbation gradients*"
- 12:15: **ELENA QUINTERO** [TSB.1-O-13] "*How many plants are dispersed by animals worldwide?*"

Tuesday, 3 June, morning (second) • Room: Seminario 3

- 12:45: **JULIA GEGUNDE** [TSB.1-O-14] "*Long-term changes in pollinator visitation and pollination success in Mediterranean montane plants*"
- 13:00: **JORGE ISLA ESCUDERO** [TSB.1-O-15] "*Mutualistic interactions and taxonomic diversity under variable herbivore abundance: A manipulative experiment*"
- 13:15: **PEDRO J GARROTE** [TSB.1-O-16] "*The circadian phenology of cork oak in ungulate-dominated landscapes: when do acorns drop? and who interacts with them?*"
- 13:30: **RAQUEL MUÑOZ-GALLEGO** [TSB.1-O-17] "*Spatial ecology of acorn dispersal by a diverse frugivores' community in a Californian oak savanna*"
- 13:45: **PAU ENRIC SERRA MARÍN** [TSB.1-O-18] "*The role of *Apis mellifera* on plant-pollinator networks in the Seychelles Archipelago*"
- 14:00: **Álvaro PÉREZ-GÓMEZ** [TSB.1-O-19] "*Pine afforestation disrupts ground-dwelling arthropod communities in Mediterranean Heathlands*"

TSB-2. Coping with the Change: Exploring the impacts of global change on marine biodiversity across spatial-temporal scale

Wednesday, 4 June, morning (second) • Room: Balconada

- 12:45: **JAIME OTERO VILLAR** [TSB.2-O-1] "*Functional diversity dynamics of a copepod assemblage in a coastal upwelling system along three decades of continuous monitoring*"
- 13:00: **C. PAMELA ORTA-PONCE** [TSB.2-O-2] "*Temporal prokaryotic ecotypes shift with dissolved organic matter composition in a coastal upwelling system*"
- 13:15: **ROSA M. CHEFAOUI** [TSB.2-O-3] "*The PERSIST and InterMaRest projects: understanding and restoring declining habitat-forming macroalgal populations at the rear edge of their distribution*"
- 13:30: **TRISTAN DA SILVA E ORNELAS** [TSB.2-O-4] "*Benthic and Ichthyofaunal Diversity in Black Coral Forests in Santo Antão, Cabo Verde: Establishing a Baseline for Monitoring Global Change*"
- 13:45: **SHAHAR CHAIKIN** [TSB.2-O-5] "*Elucidating scale-dependent effects of marine heatwaves on fish abundance*"
- 14:00: **NURIA GARRIGÓS ALCALÁ** [TSB.2-O-6] "*The role of Marine Sponges in Organic Pollutant Cycling*"

TSB-3. Connecting scales through movement ecology

Wednesday, 4 June, morning (second) • Room: Restaurante

- 12:45: **UNAI ORMAZABAL SANTA CRUZ** [TSB.3-O-1] "*Prioritizing dispersal settlements of a flagship raptor in the Iberian Peninsula: from intensity of use to spatial connectivity*"
- 13:00: **VÍCTOR MARTÍN VÉLEZ** [TSB.3-O-2] "*Dirty connections: spatiotemporal connectivity between landfills at intra- and inter-population levels in an opportunistic gull*"
- 13:15: **BEATRIZ RUMEU** [TSB.3-O-3] "*Keep the water close: Space use of a key frugivorous bird in a high mountain ecosystem*"
- 13:30: **NINA BOGDANOVIC** [TSB.3-O-4] "*Towards Unraveling the Role of Daily Bird Movements in West Nile Virus Transmission*"
- 13:45: **POL FERNÁNDEZ-LÓPEZ** [TSB.3-O-5] "*Foraging Ants as Liquid Brains: Movement Heterogeneity Shapes Collective Efficiency*"
- 14:00: **DAVID RAMÓN MARTÍNEZ** [TSB.3-O-6] "*Habitat selection during winter season of a partial migrant falcon revealed through GPS and satellite imagery data*"

III SIBECOL & XVII AEET Meeting

Another science is possible: diversity, degrowth, and sustainability in ecological research

TSB-4. Plant-soil interactions: biodiversity, functioning and sustainable practices under global change

Wednesday, 4 June, morning (first) • Room: Seminario 1

- 11:00: ANA REY SIMO [TSB.4-O-1] "Contrasting response of plant and soil microbial diversity to lithology and climate in Mediterranean maritime pine forests"
- 11:15: GUILLERMO BUENO [TSB.4-O-2] "How mycorrhizal symbiosis influence plant strategies?"
- 11:30: LORENA GÓMEZ-APARICIO [TSB.4-O-3] "Disentangling the role of the shrub community in the decline of Mediterranean oaks through indirect mechanisms of microbial sharing"
- 11:45: EZEQUIEL ANTORÁN PILAR [TSB.4-O-4] "Indirect interactions, plant-soil feedback and the coexistence of competitors"
- 12:00: JOSÉ COSTA [TSB.4-O-5] "Post-fire fungal diversity in maritime pine woodlands in Serra da Estrela (Portugal)"
- 12:15: LUIS MERINO MARTÍN [TSB.4-O-6] "Impact of soil degradation due to overgrazing on soil microbial communities and soil carbon storage of seasonal dry tropical forests in Ecuador"

Wednesday, 4 June, morning (second) • Room: Seminario 1

- 12:45: ANA-MARIA HERES [TSB.4-O-7] "The abandonment of non-native radiata pine plantations from the Basque Country - a key process to stimulate soil C sequestration and native forests' ecological restoration"
- 13:00: MIGUEL DE CELIS [TSB.4-O-8] "Conserved Patterns of Microbial Recruitment and Rhizosphere Assembly in Crop Wild Progenitors"
- 13:15: PABLO HOMET GUTIERREZ [TSB.4-O-9] "Microbial Strategies for Soil Restoration: Insights from Cover Crop Seed Inoculation"
- 13:30: PILAR ANDRÉS [TSB.4-O-10] "Regenerative agriculture as a tool for carbon farming: a Mediterranean metanalysis"
- 13:45: ROSANA SALAZAR GARCÍA [TSB.4-O-11] "Towards sustainable plant-disease management: understanding the influence of global change and local environment on nematode communities in Mediterranean olive groves"
- 14:00: ASIER HERRERO [TSB.4-O-12] "Impact of post-disturbance forest management in soil fertility six year after an extreme wind event in an Iberian beech forest"

TSB-5. Advancing the understanding of plant ecophysiology to inform global vegetation models

Monday, 2 June, evening () • Room: Restaurante

- 18:00: MARIA DOLORES HIDALGO-GALVEZ [TSB.5-O-1] "Contrasting drought adaptive strategies in Mediterranean perennial grasses"
- 18:15: JULIA CHACON LABELLA [TSB.5-O-2] "Climate and plant traits drive variation in ecosystem productivity in southern Rocky Mountains"
- 18:30: FRANCISCO SAN MIGUEL OTI [TSB.5-O-3] "Simulation of the effects of climate change by rainfall exclusion in Quercus faginea and Pinus pinea"
- 18:45: ALBERTO VILAGROSA CARMONA [TSB.5-O-4] "Inter-annual water fluxes in Mediterranean pine forests: linkages among precipitation, pine transpiration, and aquifer recharge"
- 19:00: MIQUEL DE CÁCERES AINSA [TSB.5-O-5] "A modular framework for process-based simulations of forest function and dynamics at stand to regional scales"
- 19:15: HERMINIA ALONSO-ZALDIVAR [TSB.5-O-6] "Plant strategies of two oak species (Quercus petraea and Quercus pyrenaica) in response to stress conditions in post-mining lands"

TSB-6. Emerging environmental pollutants: from molecular to ecosystemic impacts

Monday, 2 June, evening () • Room: Salón de actos

- 18:00: MARÍA BOUSO [TSB.6-O-1] "Environmental pollution and bird conservation: white storks as indicators of ecosystem health"
- 18:15: LUIS ANDRÉ MENDES [TSB.6-O-2] "Looking at the protective role of Eisenia andrei in the activity of soils contaminated with plastic"
- 18:30: ANA BELÉN MUÑOZ GONZALEZ [TSB.6-O-3] "Evaluation of environmentally relevant mixtures of plant protection products on Dario rerio embryos"
- 18:45: RAQUEL ABAD PÉREZ / RICARDO BEIRAS [TSB.6-O-4] "Evaluation of the Effects of Contaminants of Emerging Concern with Androgen Endocrine Disrupting Effect on Cyprinodon variegatus Larvae"
- 19:00: SARA COSTA [TSB.6-O-5] "Hazard assessment of carbon and wood fibers for its incorporation in greener composites"
- 19:15: JUAN MANUEL GONZÁLEZ OLALLA [TSB.6-O-6] "Could temperature alter the toxicity of an emerging contaminant on phytoplankton?"

TSB-7. Drivers of temporal changes in biodiversity: from species demography to communities

Thursday, 5 June, morning (second) • Room: Seminario 7

- 12:45: VIRGINIA DOMINGUEZ GARCIA [TSB.7-O-1] "Plant-pollinator interaction rewiring boosts year to year community survival"
- 13:00: ALESSIO CARDILLO / GRACIELA GIL-ROMERA [TSB.7-O-2] "Decoding 10,000 years of ecological persistence: non-linear behaviors in community assembly"
- 13:15: POL CAPDEVILA LANZACO [TSB.7-O-3] "Are our study systems already extinct? Revealing the impacts of climate change on Mediterranean octocorals' slow regime shifts"
- 13:30: SERGIO PICÓ JORDÁ [TSB.7-O-4] "Constraints on the variability of species interactions"
- 13:45: MIRIAM BRAVO-HERNÁNDEZ [TSB.7-O-5] "Contrasting tree species basal area gains and losses patterns under recent climate change across their climatic distribution"
- 14:00: LUCÍA ACEVEDO LIMÓN [TSB.7-O-6] "Frugivore-mediated seed dispersal and diversity dynamics in Mediterranean forest communities: from fruits to saplings"

Thursday, 5 June, after lunch (third) • Room: Seminario 1

- 15:30: **ALEX GIMÉNEZ ROMERO** [TSB.7-O-7] "*Population structure plays a key role in community stability*"
- 15:45: **VIOLETA CALLEJA SOLANAS** [TSB.7-O-8] "*Extreme changes in precipitation drive biodiversity loss*"
- 16:00: **JUAN B. GALLEGO FERNÁNDEZ** [TSB.7-O-9] "*From 0 to 100 in 30 years, expansion of *Retama monosperma* in Doñana National Park*"
- 16:15: **MARINA TOMÁS-MARTÍN** [TSB.7-O-10] "*Fine-scale spatial connectivity interacts with seasonality to shape macroinvertebrate assemblages in a restored pondscape*"
- 16:30: **PAU COLOM** [TSB.7-O-11] "*Urbanization impacts on population trends and phenology of European butterflies*"
- 16:45: **ADRIÀ COS DEL CACHO** [TSB.7-O-12] "*Factors shaping the distribution of old-growthness attributes in the forests of Spain*"

TSB-8. Transitional aquatic-terrestrial ecosystems: the ecological relevance of the dry phase of non-perennial inland waters

Monday, 2 June, evening • Room: Cova dos libros

- 18:00: **SUSANA BERNAL** [TSB.8-O-1] "*Expanding towards contraction: the alternation of floods and droughts as a fundamental component in river ecology*"
- 18:15: **REBECA ARIAS DEL REAL** [TSB.8-O-2] "*(Dis)connecting the Globe Through Water-Driven Ecological and Biogeochemical Corridors in the Polar-Alpine Biome*"
- 18:30: **PILAR HURTADO** [TSB.8-O-3] "*Unfolding the dynamics of ecosystems undergoing alternating wet-dry transitional states*"
- 18:45: **JUDIT SÁNCHEZ NOGUERAS** [TSB.8-O-4] "*Physico-chemical indicators of disconnected pools and dry riverbeds for the assessment of the ecological status of non-perennial rivers*"
- 19:00: **JOSEP RAMONEDA** [TSB.8-O-5] "*Taxonomic distribution and genomic underpinnings of drought tolerance in bacteria*"
- 19:15: **NÉSTOR PÉREZ-MÉNDEZ** [TSB.8-O-6] "*Climate change mitigation strategies in rice farming entail cascading effects across ecosystem boundaries*"

TSB-9. The flow of elements and the functioning of the biosphere

Wednesday, 4 June, morning (first) • Room: Seminario 3

- 11:00: **HELENA VALLICROSA** [TSB.9-O-1] "*The burden of big genome sizes in plant distribution*"
- 11:15: **XIN SONG** [TSB.9-O-2] "*Leaf nutrients, but not genome size, modulate plant photosynthesis*"
- 11:30: **ELADIO RODRIGUEZ PENEDO** [TSB.9-O-3] "*The bioelemental blueprint of bryophytes: Linking composition with function*"
- 11:45: **JAVIER DE LA CASA** [TSB.9-O-4] "*Shifting elementomes: addressing long-term changes in the biogeochemical composition of ecosystems from paleoenvironmental records*"
- 12:00: **ALVARO GAYTAN** [TSB.9-O-5] "*Linking root elemental composition and stoichiometry with tree health in forests invaded by soil-borne pathogens*"
- 12:15: **ECIO DINIZ** [TSB.9-O-6] "*Effects of Leaf and Whole Aboveground Element Stocks on Forest Biomass Production*"

Wednesday, 4 June, morning (second) • Room: Seminario 3

- 12:45: **ANNA LUPON** [TSB.9-O-7] "*The power of joining: Confluences influence water chemistry and biogeochemical processes along Mediterranean fluvial networks*"
- 13:00: **JOSÉ L. J. LEDESMA** [TSB.9-O-8] "*Transport and biogeochemical processing of carbon and nitrogen in terrestrial-aquatic interfaces across European ecoregions*"
- 13:15: **NURIA PERUJO** [TSB.9-O-9] "*Bioavailable dissolved organic carbon serves as a key regulator of phosphorus dynamics in stream biofilms*"
- 13:30: **ANA LETICIA ZEVENHUIZEN MARTÍNEZ** [TSB.9-O-10] "*Nitrogen dynamics and Microbial Adaptations in High-Latitude soils under Decadal Warming*"
- 13:45: **TANIA CARRASCO-MOLINA** [TSB.9-O-11] "*Nitrogen deposition risk assessment in spanish ecosystems using empirical critical loads*"
- 14:00: **JULIA JIMENO-ALDA** [TSB.9-O-12] "*Differences in nutrient content between heterospecific plant neighbours affect respiration rates of rhizosphere microbiota*"

TSB-10. Exploring environmental variability in aquatic and terrestrial ecosystems

Tuesday, 3 June, morning (second) • Room: Seminario 2

- 12:45: **OSVALDO TASCÓN PEÑA** [TSB.10-O-1] "*Marine Phytoplankton and Warming: How Fluctuations and Nutritional States Shape Community Responses*"
- 13:00: **MARÍA BOTELLA CRUZ** [TSB.10-O-2] "*Adaptations to Extreme Environments: Desiccation Tolerance mechanisms in *Ochthebius* Species from Supralittoral Rockpools*"
- 13:15: **PABLO CÉSAR SALAZAR ZARZOSA** [TSB.10-O-3] "*Environmental gradients drive diversity patterns across the Marañón Valley: Linking coastal drylands to Amazonian rainforests in Peru*"
- 13:30: **ALBERT RIVAS-UBACH** [TSB.10-O-4] "*Decoding the phenotype flexibility of forest species from a metabolomics perspective*"
- 13:45: **CAMILLE MINAUDO** [TSB.10-O-5] "*OLIGOTREND, a global database of multi-decadal chlorophyll-a and water quality timeseries for rivers, lakes and estuaries*"
- 14:00: **AIDE LASA GONZÁLEZ** [TSB.10-O-6] "*Defining microbial nitrogen guilds in an coastal upwelling system exposed to different nitrogen sources*"

TSB-11. Soil biodiversity: digging into one of the last biotic frontiers in ecological research

Tuesday, 3 June, morning (second) • Room: Seminario 1

- 12:45: **RAQUEL JUAN-OVEJERO** [TSB.11-O-1] "*Long-term effects of experimental fire and post-fire soil stabilization treatments on soil microarthropod communities in gorse shrublands*"
- 13:00: **SANTIAGO SOLIVERES CODINA** [TSB.11-O-2] "*Optimizing soil biodiversity, multifunctionality and yield when transitioning to organic farming*"
- 13:15: **CRISTINA APONTE** [TSB.11-O-3] "*Soil Fungal Communities Along Elevation Gradients: Insights for Predicting Responses to Future Climate Scenarios*"
- 13:30: **JORGE CURIEL YUSTE** [TSB.11-O-4] "*Impacts of canopy disturbances in an oak forest on soil biodiversity increase with organism size*"
- 13:45: **STEFANIA MATTANA** [TSB.11-O-5] "*Impact of Long-Term Drought on Soil Microbial Communities and Ecosystem Functionality in a Mediterranean Forest*"
- 14:00: **SARA SÁNCHEZ-MORENO** [TSB.11-O-6] "*Bottom-up effects of plant communities on soil food webs in metal-polluted arid areas*"

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TSB-12. Spatial modelling of species niches and distributions

Thursday, 5 June, morning (first) • Room: Seminario 7

- 11:00: ALEJANDRA ZARZO-ARIAS [TSB.12-O-1] “*sabinaNSDM, an R package for building nested hierarchical Species Distribution Models (SDMs)*”
 11:15: ARMAND RAUSELL-MORENO [TSB.12-O-2] “*Optimising background points in species distribution models: Effects on present and future projections*”
 11:30: DANIEL ROMERA ROMERA [TSB.12-O-3] “*JSDMs paleoclimatic projections enhance SDMs, offering improved predictions for rare species*”
 11:45: GEORGIOS VAGENAS [TSB.12-O-4] “*Enhancing aquatic Species Distribution Models (aSDMs) by utilizing the Ichthyofauna of the Iberian Peninsula as a proxy*”
 12:00: MÓNICA GÓMEZ VADILLO [TSB.12-O-5] “*Niche similarity and spatial co-occurrence in lentic and lotic European dragonflies and*”
 12:15: MARTA PARDO-ARAUJO [TSB.12-O-6] “*Human mobility and habitat suitability drive the invasion dynamics of the arbovirus vector Aedes albopictus in Spain*”

TSB-13. Host-microbe interactions: understanding ecological processes from individuals to ecosystems

Thursday, 5 June, after lunch (third) • Room: Salón de actos

- 15:30: CECILIA SILIANSKY DE ANDREAZZI [TSB.13-O-1] “*Eco-evolutionary impacts of deforestation and habitat fragmentation on host-parasite networks*”
 15:45: MARIONA PAJARES-MURGÓ [TSB.13-O-2] “*Root-associated fungal pathogens influence to plant recruitment in Mediterranean forests*”
 16:00: ELISABET ALACID FERNANDEZ [TSB.13-O-3] “*Macroalgal biofilm harbours a wide diversity of parasitic protists with distinct temporal dynamics*”
 16:15: SILKE MARTÍNEZ-MORENO [TSB.13-O-4] “*Biogeography and phyllosymbiosis as drivers of echinoderm microbiomes*”
 16:30: BERTA PINTÓ [TSB.13-O-5] “*Light, wounds, action: The contribution of photosymbionts to the sponge metabolism and tissue regeneration*”
 16:45: MARTA TURON RODRIGO [TSB.13-O-6] “*The archaeal class Nitrososphaeria is a key component of the reproductive microbiome in sponges during gametogenesis*”

TSB-14. Expanding the frontiers of trait-based ecology: novel applications across taxa and scales

Thursday, 5 June, after lunch (third) • Room: Seminario 7

- 15:30: ELEONORA BECCARI [TSB.14-O-1] “*Maps of species strategies: addressing dimensions in global trait spaces*”
 15:45: MENGJIAO HUANG [TSB.14-O-2] “*The role of trait variability in mediating the effects of global change on ecosystem stability*”
 16:00: ÀNTAR BENET VALLS [TSB.14-O-3] “*On the role of phosphorus availability in tropical rainforest community assembly: functional traits, demographic trade-offs and phylogenetic patterns*”
 16:15: ABIEL TEIXIDÓ BONFILL [TSB.14-O-4] “*Integrating plant metabolome in a functional trait-based ecology at the global scale*”
 16:30: GUILLERMO FANDOS [TSB.14-O-5] “*Complex trait syndromes allow understanding but not predicting dispersal distance in European birds*”
 16:45: DIEGO P.F. TRINDADE [TSB.14-O-6] “*Species pool functional redundancy enhances local stability in plant communities*”

TSB-15. Impact of human activities on the health of ecosystems: linking different biological organization levels

Wednesday, 4 June, morning (second) • Room: Seminario 7

- 12:45: GEMA CAMBERO CONEJERO [TSB.15-O-1] “*Effects of landscape complexity on biodiversity across the freshwater-terrestrial interface in rice agroecosystem*”
 13:00: GIULIA GIONCHETTA / MARTA TURÓN [TSB.15-O-2] “*MARTRANSFER: mapping antimicrobial resistance transfer from fresh-to-marine ecosystems*”
 13:15: AMAIA MARTÍNEZ GAVIRIA [TSB.15-O-3] “*Metal transfer factor from soil to plant decays with species growth*”
 13:30: ALBERTO GARCÍA-RODRÍGUEZ [TSB.15-O-4] “*Outdoor recreation in protected areas affects animal-mediated seed dispersal*”
 13:45: ANDRÉ F. MIRA [TSB.15-O-5] “*Fire shifts the structure and dynamics of woody plant communities in a mediterranean coastal dune ecosystem*”
 14:00: PILAR PINEDA-BALBUENA [TSB.15-O-6] “*Ecophysiological and Phenolic Production Responses of Corema album to Drought Stress: A Shrub with Potential for Sustainable Cultivation*”

TSB-16. Connecting Portuguese and Spanish Ecological Restoration experiences and future perspectives under the EU Nature Restoration Law

Thursday, 5 June, after lunch (third) • Room: Seminario 3

- 15:30: MARIO MINGARRO [TSB.16-O-1] “*Evaluating Climate Change Impacts on Protected Areas: A Climate Representativeness Approach for the Natura 2000 Network*”
 15:45: SERGIO CHOZAS [TSB.16-O-2] “*Establishing Live Fences: Evaluating the Benefits of Wood Chip Mulching and Co-Plantation*”
 16:00: PEDRO VILLAR SALVADOR [TSB.16-O-3] “*Effectiveness of seed bank transfer as a method for herb community restoration in Mediterranean mining areas*”
 16:15: JOSU ALDAY [TSB.16-O-4] “*Red de Restauración Minas y Canteras: An opportunity to share technical and scientific knowledge contributing to the development of effective ecological restoration strategies*”
 16:30: ADRIÁN REGOS [TSB.16-O-5] “*Harnessing IUCN nature-based solutions framework to mitigate extreme wildfire impacts*”
 16:45: DISCUSSION TIME

GSC. The Interplay Between Species Coexistence and Abiotic Factors: Community Ecology

Tuesday, 3 June, morning (first) • Room: Restaurante

- 11:00: ADRIÁN COLINO BAREA [GSC-O-1] “*Scavenger communities and soil enrichment: Insights from carcass sites*”
 11:15: ELENA VELADO ALONSO [GSC-O-2] “*Livestock trends in Spain: insights for wildlife conservation*”

- 11:30: ALICE CASIRAGHI [GSC-O-3] "Unraveling the diet of a potential biocontrol agent, the whirling mite (*Anystidae*), in citrus cover crops"
- 11:45: PEDRO RAPOSEIRO [GSC-O-4] "Millennial-Scale Community Dynamics and Ecosystem Transitions in Lake Prata, Azores"
- 12:00: JORDI MARTÍNEZ ARTERO [GSC-O-5] "Diatoms radiation across continental pH-alkalinity gradients"
- 12:15: LAURA PASALODOS BARCELÓ [GSC-O-6] "Temperature effect on the macroalgae consumption and respiration rate of the invasive crab *Percnon gibbesi* in the Mediterranean Sea"

Wednesday, 4 June, morning (first) • Room: Restaurante

- 11:00: INMACULADA (ADA) **Álvarez-Manzaneda** [GSC-O-7] "Frozen Archives: Exploring Avian Population Histories and other Environmental Changes Using Arctic Eider Nests"
- 11:15: ANDRY CASTRO [GSC-O-8] "The extraordinary contribution of social media and media to map rare and endangered species: the Mediterranean Monk Seal in Madeira and Porto Santo Islands"
- 11:30: HERMINE HOUDAS [GSC-O-9] "Compensatory changes in photosynthetic tissue, wood production and water use in trees defoliated by pine processionary moth"
- 11:45: FRANÇOIS DUCHENNE [GSC-O-10] "Coevolution of phenological traits shape plant-pollinator coexistence"
- 12:00: OSCAR GODOY [GSC-O-11] "Cooperation maximizes biodiversity"
- 12:15: FERRAN PAUNÉ [GSC-O-12] "The critical deficit of herbivores in Mediterranean woody systems turns them into fire dominated ecosystems"

Thursday, 5 June, morning (first) • Room: Restaurante

- 11:00: LAURA LAGOS ABARUZA [GSC-O-13] "The ecological benefits of traditionally-managed wild pony populations for heathlands in Galicia"
- 11:15: JOANA FREITAS [GSC-O-14] "Exploring Ecosystem Services and Disservices of Free-ranging Garrano Ponies"
- 11:30: KILIAN JUNGKEIT-MILLA [GSC-O-15] "From pollen to landscape: quantitative reconstruction of past vegetation dynamics in Iberia through novel relative pollen productivity estimates"
- 11:45: MARINA RINCON-MADROÑERO [GSC-O-16] "Long term trends in greening of a mountain grassland: integrating fine scale herbivore foraging with vegetation and climate"
- 12:00: ELENA VALDÉS CORRECHER [GSC-O-17] "When seasons change, so does defense: plant sex-driven herbivory in *Pistacia lentiscus*"
- 12:15: BEATRIZ CASTAÑO-RODRÍGUEZ [GSC-O-18] "A conceptual model of coastal dune ecology in arid climate zones"

TSC-1. Ecosystem functioning: from individual to food web levels

Thursday, 5 June, morning (second) • Room: Restaurante

- 12:45: CHARLOTTE EVANGELISTA [TSC.1-O-1] "Anthropogenic and environmental drivers of size spectra across marine and freshwater ecosystems"
- 13:00: DANIEL GARCÍA [TSC.1-O-2] "Disentangling complexity in ecosystem services: a multilayer approach for understanding pest control by birds and spiders in apple orchards"
- 13:15: IGNASI ARRANZ [TSC.1-O-3] "Warming-driven shifts in size spectra alter predator-prey mass ratios in stream fish communities"
- 13:30: MARTA MONFORT CALATAYUD [TSC.1-O-4] "What drives synergies and trade-offs between ecosystem functions?"
- 13:45: JAVIER SÁNCHEZ HERNÁNDEZ [TSC.1-O-5] "Energy mobilisation in food webs of mountain lakes"
- 14:00: ADRIÁN MONREAL RODRÍGUEZ [TSC.1-O-6] "The role of tadpoles in temporary ponds"

Thursday, 5 June, after lunch (third) • Room: Seminario 6

- 15:30: GUILLERMO GARCIA GOMEZ [TSC.1-O-7] "Sexual differences in energy use among ectotherms: does resource availability matters?"
- 15:45: ZEYNEP ERSOY [TSC.1-O-8] "Global patterns in freshwater microcrustacean zooplankton body-size distributions across environmental gradients"
- 16:00: MANUELA ABELHO [TSC.1-O-9] "Stoichiometric mismatch of *Armadillidium vulgare* drives compensatory feeding, stoichiometric shifting, and differential assimilation"
- 16:15: SANDRA PAREJO [TSC.1-O-10] "Shifts in species roles and interaction patterns between a nearly pristine and a disturbed island"
- 16:30: FRANCISCO I. PUGNAIRE [TSC.1-O-11] "Soil microbial communities control plant-plant competition"
- 16:45: SARA NAVARRO LÓPEZ [TSC.1-O-12] "Contrasting effects of plant invasion and climate on plant diversity across a large elevation and aridity gradient in Southern Europe"

TSC-2. Marine ecosystems: human impacts, adaptation and mitigation

Thursday, 5 June, after lunch (third) • Room: Restaurante

- 15:30: YANIS ZENTNER [TSC.2-O-1] "Title: 20 years of decline in Mediterranean octocoral populations: Do current protection strategies help?"
- 15:45: IGNACIO PERALTA-MARAVER [TSC.2-O-2] "Unifying thermal stress predictions of coral bleaching"
- 16:00: ROSA M VIEJO [TSC.2-O-3] "Fish herbivory reaches the intertidal zone: an increasing threat in the conservation of algal forests"
- 16:15: JESSICA AFONSO FERREIRA [TSC.2-O-4] "Characterising the fish diversity of Santo Antão, Cabo Verde"
- 16:30: MAR CLERENCIA IZQUIERDO [TSC.2-O-5] "Phytoplankton structure and production during two different coastal acidification events in the Ría de Vigo"
- 16:45: INÉS VIANA [TSC.2-O-6] "Multi-decadal changes in zooplankton trophic dynamics in a highly dynamic upwelling ecosystem: a climate change refugia?"

TSC-3. Plant-herbivore interactions in the face of global change

Monday, 2 June, evening • Room: Balconada

- 18:00: IRENE MARTÍNEZ VIRSEDA [TSC.3-O-1] "Insularity effects on seed damage by insect herbivores and associated traits across oak species"
- 18:15: LUCILLE T.S. CHRÉTIEN / ANA BURÓN-UGARTE [TSC.3-O-2] "Alteration and recovery of trophic interactions after multifactorial disturbance: drivers and processes"
- 18:30: VIOLETA QUIROGA-ÁLVAREZ [TSC.3-O-3] "How do herbivores modulate floral phenotypic plasticity to abiotic conditions?"

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- 18:45: **HELENA ROMERO** [TSC.3-O-4] "Analysis of arthropod diversity in subtropical crops of Mediterranean agroecosystems using DNA Metabarcoding"
- 19:00: **LUCÍA MARTÍN-CACHEDA** [TSC.3-O-5] "Enhancing crop pest resistance through plant-derived volatile organic compounds: a sustainable alternative to chemical pesticides"
- 19:15: **LENA VILÀ-VILARDELL** [TSC.3-O-6] "No evidence of prescribed burning effects on needle terpene content of *Pinus nigra* spp. *salzmannii* and larvae survival of pine processionary moth (*Thaumetopoea pityocampa*)"

TSC-4. The ecosystem role of large herbivores. Impacts, challenges and lessons for conservation in a warming world

Monday, 2 June, evening • Room: Seminario 6

- 18:00: **BLANCA GALLEGO-TEVAR** [TSC.4-O-1] "Ungulate herbivory and plant dynamics: Direct and maternal effects on herbaceous plants in Mediterranean dehesas"
- 18:15: **ANDRÉS DELGADO-GALÁN** [TSC.4-O-2] "Ungulate guilds shaping the functional structure of herbaceous plants: the role of epigenetics in short-term coevolution"
- 18:30: **RUBÉN SERRANO ZULUETA** [TSC.4-O-3] "Increasing knowledge on ungulate carrying capacity through European scale empirical abundances"
- 18:45: **PERE CASALS** [TSC.4-O-4] "Wild Ungulates Shaping Plant Landscapes: Impacts on Vegetation Structure and Composition in the Catalan Pre-Pyrenees"
- 19:00: **ESTEBAN PASCUAL PARRA** [TSC.4-O-5] "Arthropod diversity shaped by traditional pastoralism"
- 19:15: **ROCÍO FERNÁNDEZ FUERTE** [TSC.4-O-6] "Assessing the potential reproductive collapse of *Halimium halimifolium*: cervids density drives the outcome of a common but overlooked interaction"

TSC-5. The value of time: understanding the fate of ecosystems, communities and metacommunities over time

Tuesday, 3 June, morning (second) • Room: Seminario 6

- 12:45: **ESTEFANÍA TOBAJAS** [TSC.5-O-1] "Drivers affecting the temporal stability of plant-pollinator communities"
- 13:00: **DANIEL MARTÍN LORENZO** [TSC.5-O-2] "A millennial increasing trend in diatom diversity in naturally acidic alpine lakes disrupted by enhanced nitrogen availability"
- 13:15: **DUARTE VIANA** [TSC.5-O-3] "Stable assembly processes despite signs of non-equilibrium species distributions over four decades of environmental change in bird communities across North America"
- 13:30: **CRISTINA RAMOS CAPON** [TSC.5-O-4] "Long-term resilience of Pyrenean subalpine ecosystems: a high resolution sedaDNA approach to reconstruct ecological communities using Holocene paleoenvironmental records"
- 13:45: **MIGUEL MATIAS** [TSC.5-O-5] "Humans, then Climate, Simplified Lake Trophic Structures Across the Azorean Archipelago"
- 14:00: **Álvaro CASTILLA BELTRÁN** [TSC.5-O-6] "Five centuries of Human Impacts on Coastal Ecological Communities of Santiago Island, Cabo Verde"

GSD. Ecology Meets Evolution

Tuesday, 3 June, morning (first) • Room: Cova dos libros

- 11:00: **CLARA ESPINOSA DEL ALBA** [GSD-O-1] "Functional intraspecific variation in the base water potential for seed germination along soil microclimatic gradients"
- 11:15: **DAVID SALESA DURO** [GSD-O-2] "A postfire drought during the main establishment phase of *Cistus albidus* populations select individuals of higher height, fruit production and water-use efficiency"
- 11:30: **IGNACIO RAMOS-GUTIÉRREZ** [GSD-O-3] "Global evolution of animal-mediated seed dispersal"
- 11:45: **CRISTINA ARENAS-SÁNCHEZ** [GSD-O-4] "What is necessary to take up a population? Insights from an invasibility experiment with rotifers"
- 12:00: **CELIA VACA BENITO** [GSD-O-5] "Growth form and phylogeny affect the scaling between nutrient and size-based traits of leaves along climatic and harshness gradients"
- 12:15: **NATALIA VIZCAÍNO PALOMAR** [GSD-O-6] "Simulated facilitation shapes intraspecific trait variation in *Quercus ilex* seedlings"

Wednesday, 4 June, morning (first) • Room: Cova dos libros

- 11:00: **POL SOLER RUIZ** [GSD-O-7] "Stress tolerance traits across a water availability gradient in Mediterranean shrublands"
- 11:15: **SARA GAMBOA** [GSD-O-8] "Vrba was right: Implications of Pliopleistocene climate fragmentation on the biogeography of current mammals"
- 11:30: **JOÃO JACINTO** [GSD-O-9] "Linking Soil Parameters and Bioclimatic Variables to *Corema album*'s Functional Traits across species distribution range"
- 11:45: **STELA VLAJOS GÓMEZ** [GSD-O-10] "Exploring specialization as a driver for evolutionary processes on cliff ecosystems"
- 12:00: **RAQUEL DIVIESO** [GSD-O-11] "Phylogenetic patterns of species rarity and the relationship between rarity traits and speciation rates in terrestrial mammals"
- 12:15: **RAFAEL RICO-MILLAN** [GSD-O-12] "Should I stay or should I go? Triggers of developmental acceleration in tadpoles"

TSD-1. From Extinct to Extant: Integrating Palaeontological and Ecological Knowledge

Wednesday, 4 June, morning (second) • Room: Seminario 2

- 12:45: **MARTA MATAMALA-PAGÉS** [TSD.1-O-1] "Information loss in the fossil record"
- 13:00: **SOFÍA GALVÁN** [TSD.1-O-2] "Distribution of climate specialization in mammals: Resource-Use hypothesis or Mid-Domain effect?"
- 13:15: **DÁNAE SANZ PÉREZ** [TSD.1-O-3] "Body mass as a driver of isotopic niche overlap asymmetry in South American Oligocene mammals"
- 13:30: **ADRIANA LINARES MARTÍN** [TSD.1-O-4] "Volcanic lakes, a biodiversity crisis in the fossil record"
- 13:45: **FERRAN SAYOL** [TSD.1-O-5] "Past and future global diversity loss from anthropogenic bird extinctions"
- 14:00: **GUILLERMO RODRÍGUEZ-GÓMEZ** [TSD.1-O-6] "Ecological sustainability in human exploitation of bison during the Late Pleistocene at Gran Dolina TD10.2 (Sierra de Atapuerca, Spain)"

TSD-2. Exploring Evolutionary Adaptation and Resilience Mechanisms to Environmental Change in the Ocean

Tuesday, 3 June, morning (second) • Room: Seminario 7

- 12:45: ROCÍO BLANCA-SÚJAR [TSD.2-O-1] “Prokaryotic and eukaryotic microbiomes associated with blooms of the toxin-producing dinoflagellate *Alexandrium minutum*”
- 13:00: DANIEL GÓMEZ-GRAS [TSD.2-O-2] “Using a trait-based approach to guide conservation actions: a case study of black coral and gorgonian assemblages in Cabo Verde”
- 13:15: CRISTINA DIEZ VIVES [TSD.2-O-3] “Depth and Microbial Abundance Shape Evolutionary Dynamics of Sponge-Microbiome Symbiosis”
- 13:30: ALBA YAAMUZA MAGDALENO [TSD.2-O-4] “Temperature and Metabolism-Driven Variations in Refractory Dissolved Organic Carbon from marine macrophytes as a Potential Carbon Sink”
- 13:45: VANESSA ARRANZ [TSD.2-O-5] “Resilience in a changing ocean: *Arbacia lixula*’s responses to natural pH gradients”
- 14:00: ELENA ANDRÉS GÓMEZ [TSD.2-O-6] “Dietary preference as a driver for venom composition in ribbon worms”

TSD-3. Assessing the interplay between genetic and non-genetic mechanisms contributing to phenotypic variation and adaptation over time

Thursday, 5 June, morning (first) • Room: Seminario 1

- 11:00: VIT LATZEL [TSD.3-O-1] “Sex matters: Transgenerational plasticity due to mycorrhiza gets hotter in sexual than clonal offspring of *Fragaria vesca*”
- 11:15: JAVIER PUY [TSD.3-O-2] “Epigenetically mediated phenotypic plasticity is predicted from plant life history and traits of the economics spectrum”
- 11:30: IVÁN RODRÍGUEZ BUJÁN [TSD.3-O-3] “Genetic variability and phenotypic assessment of the *Erica tetralix* group (*Ericaceae*)”
- 11:45: FRANCISCO BALAO [TSD.3-O-4] “Drought-responsive eco-physiological and transcriptomic plasticity in a polyploid carnation”
- 12:00: IRIS SAMMARCO [TSD.3-O-5] “Epigenetic and transcriptomic insights into transgenerational effects of wild strawberry (*Fragaria vesca*) under biotic interactions”
- 12:15: JOSÉ ALBERTO RAMÍREZ-VALIENTE [TSD.3-O-6] “Evolution of functional syndromes and phenotypic plasticity in a forest tree species”

Thursday, 5 June, morning (second) • Room: Seminario 1

- 12:45: FRANCESCO DE BELLO [TSD.3-O-7] “Non-genetic effects of consistent across-generational stress on functional diversity”
- 13:00: RAFAEL ZAS [TSD.3-O-8] “Transgenerational plastic effects of resin tapping on seedlings of Maritime pine (*Pinus pinaster*)”
- 13:15: JORGE GARRIDO-BAUTISTA [TSD.3-O-9] “Extraordinary high prevalence and genetic diversity of Leucocytozoon (*Haemosporida: Apicomplexa*) parasites: the case of blue tits from Sierra Nevada, Spain”
- 13:30: CARLOS OLMEDO-CASTELLANOS [TSD.3-O-10] “Is phenotypic integration a constraint? Effects of heterozygosity and ploidy in phenotypic covariations in plant selfing populations”
- 13:45: DAVID GUTIERREZ LARRUSCAIN [TSD.3-O-11] “Fire-driven phenotypic plasticity and genetic adaptation in *Pinus halepensis* Mill.: insights from genomic and phenotypic analyses”
- 14:00: ANUPOMA NILOYA TROYEE [TSD.3-O-12] “Drought stress modulates subindividual trait variation and its underlying epigenetic mosaic in Mediterranean holm oak”

TSD-4. Intra-specific and intra-individual variation in a climate change context

Monday, 2 June, evening • Room: Auditorio

- 18:00: ALICIA GÓMEZ FERNÁNDEZ [TSD.4-O-1] “Genome size shapes trait variation and responses to environmental change in *Arabidopsis thaliana*”
- 18:15: IGNACIO MORALES-CASTILLA [TSD.4-O-2] “Syndromes in responses to warming: linking phenology and physiology at the intraspecific level”
- 18:30: MARINA RAMOS-MUÑOZ [TSD.4-O-3] “Evolutionary potential in multivariate environments: How warming and competition interact with drought to shape the potential response to selection in a Mediterranean shrub”
- 18:45: FLORENCE VOLAIRE [TSD.4-O-4] “Phenotypic plasticity of water-related traits reveals boundaries to the adaptive capacity of a dominant European grass species under increased drought”
- 19:00: CARLOS CELDRÁN FERNÁNDEZ [TSD.4-O-5] “When it Gets Drought: How *Lupinus angustifolius* Adapts to Dry Times”
- 19:15: MARIO BLANCO SANCHEZ [TSD.4-O-6] “Assessing genetic differentiation and plasticity patterns to temperature throughout the worldwide distribution of *Lemna minor*: insights into climate change responses”

Tuesday, 3 June, morning (first) • Room: Seminario 6

- 11:00: PABLO CASTRO SÁNCHEZ-BERMEJO [TSD.4-O-7] “Patterns of intraspecific and intraindividual trait variation in trees along experimental diversity gradients”
- 11:15: ALBA ANADON-ROSELL [TSD.4-O-8] “Intraindividual trait coordination in tundra clonal shrubs along a latitude gradient”
- 11:30: CHARLOTTE MÖLLER [TSD.4-O-9] “Evolutionary and temporal patterns of intra-individual variation and trait means in *Hypericum perforatum*: a resurrection approach”
- 11:45: ALICIA VALDÉS RAPADO [TSD.4-O-10] “Intra-individual variation in phenology and selection on individual flowering schedules”
- 12:00: ROQUE LAZCANO VÁZQUEZ [TSD.4-O-11] “On vegetal individuality and intra-plant diversification. Historical synthesis of an ontological problem”
- 12:15: MARA PANEGHEL / LLUÍS COLL [TSD.4-O-12] “Plant-size modulates the morpho-physiological adjustments of *Pinus halepensis* saplings under field-simulated climate change”

GSE. Are We at a Global Tipping Point? Biodiversity Conservation and Ecosystem Services Sustainability

Tuesday, 3 June, morning (first) • Room: Auditorio

- 11:00: JAVIER PORRAS GÓMEZ [GSE-O-1] “The effect of increasing temperature on ecosystem recovery dynamics: an experiment with plant communities”
- 11:15: ANA LUCÍA MÉNDEZ-CARTÍN [GSE-O-2] “Fire refugia and microsite conditions determine post-fire recovery of black pine forests”

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- 11:30: **MARIONA FERRANDIZ ROVIRA** [GSE-O-3] "Advancing research, innovation and entrepreneurship on urban forestry: the UFOREST project"
 11:45: **JONATAN RODRIGUEZ** [GSE-O-4] "Hidden impacts of the invasive plant *Tradescantia fluminensis* on soils: implications for restoration of invaded areas"
 12:00: **ALMUDENA DUEÑAS-ROJAS** [GSE-O-5] "Do global warming and biotic interactions affect the ecosystem functions provided by dung beetles? A temperature controlled experiment"
 12:15: **RAFAEL MOLINA VENEGAS** [GSE-O-6] "Plant evolutionary history is largely underrepresented in European seed banks"

Tuesday, 3 June, morning (second) • Room: Auditorio

- 12:45: **VIRGILIO HERMOSO** [GSE-O-7] "Integrated spatial planning for photovoltaic expansion: balancing renewable energy, agriculture, and biodiversity"
 13:00: **ANDRÉS GIMÉNEZ CASALDUERO** [GSE-O-8] "Evaluating landscape connectivity in terrestrial vertebrate populations: linear infrastructures, wildlife crossings and ecological corridors"
 13:15: **BELÉN ACUÑA-MIGUEZ** [GSE-O-9] "Exploiting hydraulic trait variability in circum-Mediterranean firs for increased adaptation of *Abies alba* forests to drought"
 13:30: **CAYETANO GUTIÉRREZ CÁNOVAS** [GSE-O-10] "Combined effects of land-use- and climate-driven stressors on stream fungi and organic matter decomposition"
 13:45: **RAQUEL ESTEBAN** [GSE-O-11] "Linking physiological mechanisms with soil properties to unravel tree vulnerability in radiata pine plantations"
 14:00: **AMARA SANTIESTEBAN** [GSE-O-12] "Impacts of high-severity wildfires on soil fungal communities and soil functioning"

Wednesday, 4 June, morning (first) • Room: Auditorio

- 11:00: **MERCEDES VALERIO** [GSE-O-13] "Twenty-year effect of sewage-sludge fertilization in a Mediterranean grassland: impact on species composition, functional groups and interrelation with climate"
 11:15: **IRYNA LITOVSKA** [GSE-O-14] "Arthropod abundance is most strongly driven by crop and semi-natural habitat type rather than management in an intensive agricultural landscape in the Netherlands"
 11:30: **ANTONIO I. ARROYO** [GSE-O-15] "Effects of climate and land-use change on satellite-derived primary production in temperate mountain grasslands: insights from the Spanish Pyrenees"
 11:45: **AUREA LUIZA LEMES DA SILVA** [GSE-O-16] "Assessing the impacts of urbanization on stream ecosystem services through a temporal perspective: historical versus recent cities"
 12:00: **DAVID MORENO MATEOS** [GSE-O-17] "2,000 years of genomic recovery from pre-Columbian agriculture in the Amazon"
 12:15: **RAFAEL BARRIENTOS** [GSE-O-18] "Planning wildlife crossing structures using mountain lion road crossing events vs. roadkills"

Wednesday, 4 June, morning (second) • Room: Auditorio

- 12:45: **MARC RIERA** [GSE-O-19] "Under pressure: a plant's introduction pathway is associated with the invasion of environmentally stressful conditions"
 13:00: **JUAN ANTONIO HERNÁNDEZ AGÜERO** [GSE-O-20] "Vegetation and water as nature-based solutions for the restoration of urban ecosystem functions"
 13:15: **EVA CUESTA** [GSE-O-21] "Evaluating the effects of global warming on dung beetle diversity and ecosystem functions through field experiments"
 13:30: **FELIPE RODRÍGUEZ ARVELO** [GSE-O-22] "Particulate and Mineral-Associated Organic Carbon as Indicators of Soil Carbon Stock Vulnerability in mature and secondary ecosystems in Tenerife (Canary Islands)"
 13:45: **CHRISTIAN ARNANZ** [GSE-O-23] "Temporary ponds under pressure: agricultural intensification and climate change impacts"
 14:00: **ANA AGUIRRE** [GSE-O-24] "Using National Forest Inventory data to enhance mortality estimations"

Thursday, 5 June, morning (first) • Room: Auditorio

- 11:00: **FÉLIX PICAZO** [GSE-O-25] "Freshwater mussel holobionts constitute prokaryotic diversity reservoirs mediating crucial ecosystem functions"
 11:15: **NOELIA FERNÁNDEZ-PRADO** [GSE-O-26] "Influence of Macrolichens on Invertebrate Richness and Diversity in restored and mature Mediterranean Forests"
 11:30: **MARTA PÉREZ DÍZ** [GSE-O-27] "Unearthing challenges: effects of *Carpobrotus* species on soil properties and microbial communities in coastal ecosystems globally"
 11:45: **ANTONIO CAMACHO** [GSE-O-28] "Assessing the role of management and restoration actions on the Iberian wetlands' capacity for GHG emissions abatement"
 12:00: **SERGIO DE FRUTOS** [GSE-O-29] "Growth and survival analysis of *Pinus sylvestris* and *Pinus nigra* seedlings from different provenances planted in two different stands of *P. sylvestris* after regeneration cuttings: evaluation of facilitative effects"
 12:15: **MARIA CRUZ DÍAZ ANTUNES-BARRADAS / MARIO FERNÁNDEZ MARTÍNEZ** [GSE-O-30] "Ecophysiological keys to the success of a range-expanding species in threatened coastal habitats of Doñana National Park"

Thursday, 5 June, morning (second) • Room: Auditorio

- 12:45: **SÓNIA R. Q. SERRA** [GSE-O-31] "Citizen: A Digital Path to Healthier Ageing and Nature Preservation"
 13:00: **JAUME TORMO BLANES** [GSE-O-32] "Rehabilitation and monitoring of novel ecosystems in a solar power plant in semi-arid Spain"
 13:15: **INMACULADA CRIADO NAVARRO** [GSE-O-33] "Assessment of biological soil crust (biocrust) through an integrative analysis of the metabolites, nematodes, and soil biological and physicochemical properties"
 13:30: **PERU AGUEDA ARAMBURU** [GSE-O-34] "Greenhouse gas emissions from *Posidonia oceanica* beach wrack"
 13:45: **VICENTE J. ONTIVEROS** [GSE-O-35] "Temporal dynamics of richness, composition and phylogenetic change across ecosystems"
 14:00: **OLGA BARREIRO VERA** [GSE-O-36] "Growth responses to drought of primary producers in *Pinus pinaster* ecosystems"

TSE-1. Anthropogenic Disturbances and Global Change: Impacts on Biodiversity and Ecosystem Services

Monday, 2 June, evening () • Room: Seminario 7

- 18:00: **YOUSRA EL GHAFRAOUI** [TSE.1-O-1] "Unraveling biodiversity and cultural values: a case study in rural Spain"
 18:15: **CLÀUDIA MASSÓ ESTAJE** [TSE.1-O-2] "Enhancing Structural Beta Complexity to Promote Biodiversity in Managed Forests"

- 18:30: **MARTA ARENAS** [TSE.1-O-3] "A novel approach measuring long-term social and environmental benefits through ecosystem services supply driven by new aeration turbine technology development in hydropower plants"
- 18:45: **ROGER PUIG-GIRONÉS** [TSE.1-O-4] "Long-Term Integrative Monitoring Tool for Assessing Drought Impacts on Biodiversity"
- 19:00: **NURIA PISTÓN** [TSE.1-O-5] "A trait-based approach to optimize urban green infrastructure for air pollution mitigation"
- 19:15: **MIGUEL ÁNGEL BLANCO-RODRÍGUEZ** [TSE.1-O-6] "The role of structural heterogeneity and fire severity in Mediterranean post-fire landscape dynamics"

Tuesday, 3 June, morning (first) • Room: Seminario 7

- 11:00: **VÍTOR GONÇALVES** [TSE.1-O-7] "Climate-Driven Regime Shifts and Biodiversity Loss in Island Lake Ecosystems: Evidence from the Azores Archipelago"
- 11:15: **SOFIA MIGUEL ROMERO** [TSE.1-O-8] "Unravelling the spatial and temporal variability of natural disturbances in European forests"
- 11:30: **ANA SOLÓRZANO** [TSE.1-O-9] "Assessing Nature's Contributions to People in the River Gambia: the impacts of seawater intrusion"
- 11:45: **ELENA ROCAFULL PÉREZ** [TSE.1-O-10] "Current and potential carbon storage of shrublands in Tenerife, Canary Islands"
- 12:00: **MARÍA ESPÍRITO SANTO** [TSE.1-O-11] "Pasture resilience: phenological patterns, ecosystem services and critical thresholds in the face of climate change"
- 12:15: **MARINA PACHÓN** [TSE.1-O-12] "Recent decline of little bustard population in Spain is linked to agricultural intensification"

Tuesday, 3 June, morning (second) • Room: Balconada

- 12:45: **ROCÍO TARJUELO** [TSE.1-O-13] "Assessing vulnerability of relevant sites for amphibian conservation through spatiotemporal analyses of global change factors in Europe"
- 13:00: **ROCÍO R. DAZA** [TSE.1-O-14] "Farmland abandonment and season drive scavenging dynamics in livestock-rewilded landscapes"
- 13:15: **JOSE ANTONIO NAVARRO CANO** [TSE.1-O-15] "Comparative assessment of restored mine sites based on an integrative ecological quality index"
- 13:30: **DANIEL BRUNO** [TSE.1-O-16] "Road crossing structures can play a significant role for the connectivity of vertebrate populations in semi-arid protected areas"
- 13:45: **TAMARA BURGOS** [TSE.1-O-17] "Dependency and behaviour of wintering Ring Ouzels on water points in an arid ecosystem in the Canary Islands"
- 14:00: **FERNANDO MORALES DE RUEDA** [TSE.1-O-18] "Scaling forest recovery: the governance of AI-powered precision restoration"

TSE-2. Understanding the potential of managed ecosystems to mitigate climate change from an ecological perspective

Wednesday, 4 June, morning (first) • Room: Seminario 6

- 11:00: **MARÍA ALMAGRO BONMATÍ** [TSE.2-O-1] "Global warming will speed up carbon and nitrogen losses from decomposing plant residues by photodegradation in semi-arid Mediterranean agroecosystems"
- 11:15: **MAITE MARTÍNEZ-EIXARCH** [TSE.2-O-2] "Greenhouse gas emissions from wetland and paddy rice: a contextualization under an ecological lens"
- 11:30: **SEBASTIÁN ECHEVERRÍA-PROGULAKIS** [TSE.2-O-3] "Impact of climate change mitigation strategies in rice farming on biodiversity and agroecosystem multifunctionality"
- 11:45: **ALEJANDRO CARRASCOSA BECERRIL** [TSE.2-O-4] "Opportunities to enhance long-term soil carbon storage in dehesas: an analysis of management change effects on carbon fluxes and fractions"
- 12:00: **JUDIT TORRES FERNÁNDEZ DEL CAMPO** [TSE.2-O-5] "Key drivers of soil organic carbon dynamics in *Quercus ilex* L. dehesas of Extremadura"
- 12:15: **PABLO MANZANO** [TSE.2-O-6] "Alternative views of climate metrics in livestock rangelands under herbivore ecology perspectives"

TSE-3. Ensuring the ecological effectiveness of the EU Common Agricultural Policy 2023–2027

Thursday, 5 June, after lunch (third) • Room: Balconada

- 15:30: **MARIO DÍAZ** [TSE.3-O-1] "The new funding structure of the Common Agricultural Policy (CAP) 2023-2027: implications for biodiversity conservation"
- 15:45: **GEMMA MARÍA CLEMENTE ORTA** [TSE.3-O-2] "Biodiversity conservation under the Common Agricultural Policy (CAP) 2023-2027: the AGRIAMBIO proposal for monitoring its effectiveness"
- 16:00: **LAURA HERNÁNDEZ MATEO** [TSE.3-O-3] "Enablers and barriers for the uptake of carbon farming in Dehesa agroforestry and Mediterranean rainfed cereal cropping systems in Spain"
- 16:15: **IGNASI BARTOMEUS** [TSE.3-O-4] "How many European bees can benefit if we boost pollinator conservation in farmlands?"
- 16:30: **REMCO PLOEG** [TSE.3-O-5] "Successful green cover establishment for beneficial arthropods in orchards is influenced by farm management intensity"
- 16:45: **TERESA MORÁN LÓPEZ** [TSE.3-O-6] "Predicting biodiversity-driven ecosystem services in agricultural landscapes"

TSE-4. Forest mortality and die-off responses to global change

Thursday, 5 June, morning (first) • Room: Balconada

- 11:00: **FRANCISCO LLORET** [TSE.4-O-1] "Forest die-off and species climatic niche"
- 11:15: **FAQRUL ISLAM CHOWDHURY** [TSE.4-O-2] "Drought-induced die-off alters vegetation diversity across climatic gradients in Catalan *Pinus sylvestris* forests"
- 11:30: **DANIEL NADAL-SALA** [TSE.4-O-3] "Enhanced resilience to drought and pest infestation through forest management in a *Pinus pinaster* plantation in Prades (NE Spain)"
- 11:45: **MARINA RODES BLANCO** [TSE.4-O-4] "Identifying and monitoring drought induced forest decline in Scots Pine forest through Satellite Remote Sensing"
- 12:00: **ALBERTO HORNERO / ROCÍO HERNÁNDEZ-CLEMENTE** [TSE.4-O-5] "Advancing oak forest health monitoring: application of thermal imaging and CWSI in heterogeneous canopies"
- 12:15: **CLARA BELLOSTES GARCÍA** [TSE.4-O-6] "Individual tree characteristics and plasticity to climate conditions modulate resistance to bark beetle attack in *Pinus uncinata*"

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- 12:45: PABLO SANCHEZ MARTINEZ [TSE.4-O-7] "The fate of Amazon rain forests under drought: collapse or stabilisation?"
- 13:00: PABLO TOMÁS PAREDES BERRÍOS [TSE.4-O-8] "Evidencing drought-induced tree mortality and forest die-off in Mediterranean Chile after the 2019 extreme event"
- 13:15: GUILLERMO GEA IZQUIERDO [TSE.4-O-9] "Towards understanding the physiological and metabolic expressions in the sequence of pine decline under hotter-drought"
- 13:30: ANDREU CERA RULL [TSE.4-O-10] "Can diversity improve forage production in the face of heatwaves?"
- 13:45: RAQUEL TERA MARTÍNEZ [TSE.4-O-11] "Biodiversity impact on productivity in crop systems with different cultivation histories"
- 14:00: CARMEN ORTS [TSE.4-O-12] "The role of green covers in soil health for irrigated persimmon orchards in Valencia (Spain)"

TSE-5. The long-term recovery of post-agricultural land

Thursday, 5 June, morning (second) • Room: Seminario 6

- 12:45: ASUN RODRÍGUEZ-UNA [TSE.5-O-1] "Improving the long-term recovery of forest complexity after agriculture"
- 13:00: VERÓNICA CRUZ-ALONSO [TSE.5-O-2] "Land transformation and climate change additively affect forest composition recovery worldwide"
- 13:15: MARIO GASPÁR [TSE.5-O-3] "Reconfiguration of biodiversity and ecological processes along crop and livestock abandonment gradients"
- 13:30: ALVARO MORENO MARTIN [TSE.5-O-4] "Vikings in Greenland, how the ecosystem has evolved over the past 600 years after suffering agricultural impacts."
- 13:45: EDUARDO VELÁZQUEZ [TSE.5-O-5] "Carbon accumulation over 70 years of old-field succession driven by live biomass in a Mediterranean continental environment"
- 14:00: JOSÉ MARÍA REY BENAYAS [TSE.5-O-6] "Planted hedgerows and fenced perches speed up the slow recovery of woody vegetation in continental Mediterranean farmland"

TSE-6. Greenhouse gas fluxes across natural and anthropized ecosystems

Thursday, 5 June, after lunch (third) • Room: Seminario 2

- 15:30: SOFÍA RODRÍGUEZ GÓMEZ [TSE.6-O-1] "Seasonal and diurnal CO₂ patterns in desiccated wetland sediments"
- 15:45: ELENA VILLA-SANABRIA [TSE.6-O-2] "The role of climate change in soil greenhouse gas fluxes from Mediterranean forests: A potential positive feedback with global warming"
- 16:00: MARÍA CINTA SABATÉ GIL [TSE.6-O-3] "Temporal Dynamics of Nitrous Oxide Hot Moments Across Ecosystems in Europe"
- 16:15: MARCOS FERNÁNDEZ MARTÍNEZ [TSE.6-O-4] "Chaotic or periodic carbon fluxes? Estimating temporal complexity to understand ecosystem functioning"
- 16:30: JULIA MÁÑEZ CRESPO [TSE.6-O-5] "Evaluating the Recovery of Ecosystem Services in a Restored Seagrass Meadow: Greenhouse Gas Fluxes and Climate Mitigation Potential"
- 16:45: MIRIAM GARCÍA ALGUACIL [TSE.6-O-6] "Production profiles of methane and nitrous oxide in the sediments of a Mediterranean reservoir during mixing and stratification periods"

TSE-7. What works in forest management and restoration

Thursday, 5 June, morning (first) • Room: Seminario 2

- 11:00: PAULA FELDMANN [TSE.7-O-1] "The forest within the forest: restoration of host plant-epiphyte networks following invasive plant control"
- 11:15: JESÚS LOPEZ-ÁNGULO [TSE.7-O-2] "Key structural attributes of reforestations for the conservation of avian biodiversity: a comparison with natural forests"
- 11:30: MARÍA NOELIA MORATO SÁNCHEZ [TSE.7-O-3] "Why does Portuguese oak regenerate less successfully than holm oak? Is it a matter of taste?"
- 11:45: MARÍA MEDINA [TSE.7-O-4] "Resprouting response of two oak species to repeated biomass loss: effects of warming and revegetation method"
- 12:00: ESTRELLA CONDE-RAPOSO [TSE.7-O-5] "Evaluating reforestation success: plant diversity and structural characteristics in central Iberian forests"
- 12:15: BEATRIZ DUGUY PEDRA [TSE.7-O-6] "Promoting adaptive post-fire forest restoration practices and socio-ecological resilience through a participatory process (Maials, Lleida, Northeastern Spain)"

Thursday, 5 June, morning (second) • Room: Seminario 2

- 12:45: PEDRO REBOLLO [TSE.7-O-7] "Effects of harvesting regimes on forest biodiversity indicators across Iberian forests"
- 13:00: MARGARITA LEMA [TSE.7-O-8] "Disentangling the effects of resin-tapping to ensure the resilience and sustainable provision of ecosystem services by maritime pine forests"
- 13:15: LIDE ALBENZ ARANA [TSE.7-O-9] "Post-disturbance management shapes regeneration dynamics in an Iberian beech forest: Insights from six years after a tornado"
- 13:30: IGNACIO BARBEITO [TSE.7-O-10] **CANCELLED** "Biomass and isotopes as indicators of post-fire management impact on natural regeneration in British Columbia"
- 13:45: ALEJANDRO ANTELO BARRAL [TSE.7-O-11] "Applying the ecosystem service co-production concept to assess the sustainability of forest management"
- 14:00: SILVIA ROY CURRÁS [TSE.7-O-12] "Human Ecosystems Rewilding Experimental System (HERES): a research network to understand natural rewilding of abandoned agricultural areas in Mediterranean Basin"

TSE-8. Biological invasions, knowledge to manage in a context of global change

Wednesday, 4 June, morning (first) • Room: Seminario 7

- 11:00: PABLO GONZÁLEZ-MORENO [TSE.8-O-1] "Incorporating local insights through interviews and a participatory workshop for invasive plant species management in southeastern Iberian arid ecosystems"
- 11:15: ADRIÁN LÁZARO-LOBO [TSE.8-O-2] "Evaluating invasion risk through hierarchical species distribution models and greenhouse experiments"

- 11:30: JORGE ÁNGEL MARTÍN ÁVILA [TSE.8-O-3] "European Honey Buzzards as Natural Predators of the Invasive Yellow-Legged Hornet in Agroforestry Landscapes"
- 11:45: DANIEL ECHEANDÍA [TSE.8-O-4] "Evaluating the invader complex between the giant resin bee (*Megachile sculpturalis*) and the Japanese pagoda tree (*Styphnolobium japonicum*) in a non-native range"
- 12:00: DANIEL PUENTES [TSE.8-O-5] "Review of the invasion of exotic crab *Percnon gibbesi* in the Mediterranean Sea"
- 12:15: JOANA GUEDES DE JESUS [TSE.8-O-6] "From waste to resource: advantages of using *Acacia longifolia* biomass"

TSE-9. Brown Urban Ecology: The interlink between nature and humanity

Wednesday, 4 June, morning (second) • Room: Seminario 6

- 12:45: GABRIELA QUIROGA [TSE.9-O-1] "Bottom-up and top-down drivers of urbanization effects on insect herbivory on oaks"
- 13:00: ASHLEY TEJEDA MENESES [TSE.9-O-2] "Morphological adaptations of butterfly populations in response to urbanization"
- 13:15: CARLOS HERNÁNDEZ-CASTELLANO [TSE.9-O-3] "Bee diversity patterns in urban vs adjacent natural ecosystems: species turnover makes urban parks biodiversity refuges"
- 13:30: EMILIO PAGANI-NÚÑEZ [TSE.9-O-4] "Complementing urban agriculture and green spaces is important for ecosystem functions and biodiversity in cities: A systematic review and meta-analysis"
- 13:45: ANDREA DEL CARMEN SALA NAVARRO [TSE.9-O-5] "Contrasting levels of contaminants in different urban land uses depending on the identity"
- 14:00: LUCÍA ALARCÓN-RÍOS [TSE.9-O-6] "The role of reproductive mode on the phenotypic divergence between urban and forest populations: salamanders as a study case"

TSE-10. Green Urban Ecology: nature and the city

Thursday, 5 June, morning (first) • Room: Seminario 6

- 11:00: SHICHUN MA [TSE.10-O-1] "Mapping Barcelona's Urban Smellscape: A Multi-layered Analysis of Scented Vegetation Distribution and Accessibility"
- 11:15: ELENA DANIELA CONCEPCIÓN CUEVAS [TSE.10-O-2] "Strengthening urban green infrastructure networks through multi-scale and interdisciplinary frameworks"
- 11:30: NEREA PÉREZ ANDRÉS [TSE.10-O-3] "Growth variability and drought resilience in urban trees"
- 11:45: CRISTINA C. BASTIAS [TSE.10-O-4] "Exploring structural and functional attributes in urban parks to optimize ecosystem services in the climate-vulnerable city of Cordoba, Spain"
- 12:00: PEDRO PINHO [TSE.10-O-5] "Quantifying the factors influencing ecosystems services provision by urban green & blue infrastructure"
- 12:15: DEPARIS MURIEL [TSE.10-O-6] "How biodiversity of private gardens is shaped by management practices and garden composition? A review and meta-analysis."

TSE-11. Blue Urban Ecology: Aquatic ecosystems for Healthy and Sustainable Cities

Thursday, 5 June, after lunch (third) • Room: Auditorio

- 15:30: JORDI BOU [TSE.11-O-1] "Blue connectivity in urban ecosystems: simulating future scenarios as a management tool"
- 15:45: ANA RAQUEL CALAPEZ [TSE.11-O-2] "Urban Streams as Biodiversity Hotspots within cities: assessing ecological communities and environmental influences"
- 16:00: JANINE PEREIRA DA SILVA [TSE.11-O-3] "Satellite remote sensing for assessing urban stream health"
- 16:15: FERNANDA RODRIGUES [TSE.11-O-4] "Pharmaceuticals in urban streams: an evaluation in European cities across urbanisation and climatic gradients"
- 16:30: MARIA CAROLINA CHAVES DE SOUSA [TSE.11-O-5] "Risks for human health from the loss urban stream ecosystems services"
- 16:45: RAFAEL SCHMITT [TSE.11-O-6] "Seasonal patterns of diatom communities and water quality of urban streams"

TSE-12. Effectiveness of anthropogenic actions in reducing biodiversity loss

Monday, 2 June, evening () • Room: Seminario 2

- 18:00: MÁRIO SANTOS [TSE.12-O-1] "Conservation of the Pyrenean Desman (*Galemys pyrenaicus*): recommendations for practitioners from a systematic review"
- 18:15: FRANCISCO M. AZCÁRATE [TSE.12-O-2] "Ecological restoration of transhumance drove roads: Insights from the LIFE CAÑADAS project"
- 18:30: MIGUEL CLAVERO [TSE.12-O-3] "The eel market extinction vortex"
- 18:45: KAREN MUSTIN [TSE.12-O-4] "De-coupling of the social and ecological subsystems in Spanish Protected Areas"
- 19:00: SARA CARONA [TSE.12-O-5] "Are conservation translocation efforts biased in the Iberian Peninsula? A functional analysis of translocated species across taxa"
- 19:15: ALICE NUNES [TSE.12-O-6] "Ecological restoration of the coastal dune system in S. João da Caparica: scientific assistance and lessons learned in the REDUNA project"

Tuesday, 3 June, morning (first) • Room: Seminario 2

- 11:00: JOSE SALGADO [TSE.12-O-7] "Multi-Action Conservation Planning across realms: A Mixed Integer Programming Model approach"
- 11:15: MANUEL PINILLA ROSA [TSE.12-O-8] "The role of two constructed wetlands for wastewater treatment in Odonata conservation in the agricultural landscape of the Ebro Delta"
- 11:30: ANDRÉS RAMOS BENITO [TSE.12-O-9] "Does the Natura 2000 Network ensure the conservation of threatened species? A demographic study of spur-thighed tortoises (*Testudo graeca*) in southeastern Spain"
- 11:45: MATÍAS MORENO-FAGUETT [TSE.12-O-10] "Spatial prioritization for the restoration of terrestrial ecosystems in Chile"
- 12:00: PATRICIA MATEO TOMÁS [TSE.12-O-11] "Animal GPS-tracking as a tool to assess compliance with regulations that affect biodiversity conservation"
- 12:15: MARÍA FERNÁNDEZ-GARCÍA [TSE.12-O-12] "Integrating detection and motivation to enhance mapping predictions of wildlife poisoning risk and inform on-ground actions"

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GSF. New Technologies, New Discoveries: Big Data, Remote Sensing, and AI

Tuesday, 3 June, morning (first) • Room: Balconada

- 11:00: **IRENE MENDOZA SAGRERA** [GSF-O-1] "Passive Acoustic Monitoring combined with deep learning for assessing the health status of Doñana: challenges and perspectives"
- 11:15: **CLARA GRACIA MAS** [GSF-O-2] "Not So Intelligent: Evaluating Traditional Methods Against AI-Based Approaches for Estimating Dark Diversity"
- 11:30: **CRISTINA GRAJERA-ANTOLÍN** [GSF-O-3] "Identifying limiting factors of tree species performance across Northern Hemisphere forests: An approach through the Law of the Minimum"
- 11:45: **MARÍA I GONZÁLEZ-PÉREZ** [GSF-O-4] "Unravelling the daily activity rhythms of urban mosquitoes through the use of smart-traps"
- 12:00: **ANDRÉS BASELGA** [GSF-O-5] "The spatial scaling of evolutionary uniqueness to inform biodiversity conservation priorities"
- 12:15: **NICOLAS MERINO ROBERT** [GSF-O-6] "From Empirical Data to Ecological Dynamics: Modelling Tetrapod Communities Across the Iberian Peninsula"

Wednesday, 4 June, morning (first) • Room: Balconada

- 11:00: **SALVADOR ARENAS-CASTRO** [GSF-O-7] "Dynamic habitat-based conservation indicators of flagship species for priority areas in southern Europe"
- 11:15: **JOSE MANUEL Álvarez-Martínez** [GSF-O-8] "AI-Enhanced LULC and Biodiversity Mapping for Protected Areas Monitoring"
- 11:30: **ANA GENUA OLMEDO** [GSF-O-9] "Mapping coastal habitats at state-level: integrating GIS, remote sensing, and fieldwork"
- 11:45: **RAÚL GARCÍA-VALDÉS** [GSF-O-10] "Diversity in drought-tolerance traits promotes temporal stability in forest productivity"
- 12:00: **BORJA JIMÉNEZ-ALFARO** [GSF-O-11] "Hierarchical ecosystem mapping for large-scale biodiversity assessment"
- 12:15: **LORÉNA BOISSEAU** [GSF-O-12] "Parakeet invasion: Novel noise creates a shift in urban soundscapes"

TSF-1. Ecoacoustic monitoring of biodiversity: challenges and applications

Wednesday, 4 June, morning (first) • Room: Seminario 2

- 11:00: **DIEGO LLUSIA GENIQUE** [TSF.1-O-1] "Monitoring biodiversity and ecosystems with sounds: review and perspectives"
- 11:15: **JOSE JOAQUIN LAHOZ MONFORT** [TSF.1-O-2] "Listening to the mountains: towards a large-scale passive acoustic observatory for Ordesa & Monte Perdido National Park"
- 11:30: **CATUXA CERECEDO-IGLESIAS** [TSF.1-O-3] "Evaluating acoustic and distance sampling for monitoring bird communities in a One Health context"
- 11:45: **DELIA VELASCO-MONTERO** [TSF.1-O-4] "Ecoacoustic Camera Trap: A Unified, AI-Driven Solution for Multimodal Biodiversity Monitoring"
- 12:00: **CRISTIAN PÉREZ-GRANADOS** [TSF.1-O-5] "Low-cost recorders and ready-to-use machine learning tools: An effective combination for monitoring nocturnal and cryptic aquatic birds"
- 12:15: **ALBA MÁRQUEZ-RODRÍGUEZ** [TSF.1-O-6] "Optimizing BirdNET for local ecosystems, fine-tuning for ecoacoustic monitoring"

TSF-2. Perspectives and Challenges in Biodiversity Forecasting

Tuesday, 3 June, morning (second) • Room: Restaurante

- 12:45: **JUAN VICENTE GALLEGRO RUBALCABA** [TSF.2-O-1] "Predicting organismal responses to climate change through biophysical modeling"
- 13:00: **TERESA SÁNCHEZ-MEJÍA** [TSF.2-O-2] "Modeling population dynamics of mediterranean shrubs: Integrating climatic complexity"
- 13:15: **NEREA MONTES-PÉREZ** [TSF.2-O-3] "A comprehensive probabilistic metaweb of plant-pollinator interactions across EU"
- 13:30: **JUAN GALLEGRO ZAMORANO** [TSF.2-O-4] "Modelling birds' annual cycle using Euro Bird Portal data"
- 13:45: **RUBÉN GARCÍA MATEO** [TSF.2-O-5] "geoSABINA: A unified ecological geoportal for Spain to support biodiversity research and conservation planning"
- 14:00: **ANDREA CORRAL LOU** [TSF.2-O-6] "Comparative assessment of freshwater biodiversity in the Los Morales reservoir (Madrid) using eDNA collected from sponges and water filtration"

TSF-3. Quantitative ecology: modelling of populations and species distributions

Thursday, 5 June, morning (first) • Room: Seminario 3

- 11:00: **JULIA G. DE ALEDO** [TSF.3-O-1] "Is biodiversity declining? Or fluctuations reflect natural variability? A decade of monitoring pollinator dynamics."
- 11:15: **JÚLIA RODRÍGUEZ GRABALOSA** [TSF.3-O-2] "Ecological Drivers of Mosquito-Borne Disease Risk in Human-Impacted Wetlands"
- 11:30: **SARA VILLÉN-PÉREZ** [TSF.3-O-3] "Polygonal-shaped patterns in ecological data are common and significant"
- 11:45: **JAVIER FERNÁNDEZ-LÓPEZ** [TSF.3-O-4] "Rethinking the role of spatially structured random effects in species distribution models"
- 12:00: **FRANCISCO CERVANTES PERALTA** [TSF.3-O-5] "Comparison of occupancy predictions from dynamic vs static multi-season occupancy models"
- 12:15: **SONIA ILLANAS** [TSF.3-O-6] "Occupancy modeling for wild ungulates from camera traps at National scale."

TSF-4. Do-it-yourself (DIY) open source tools and projects in ecology

Thursday, 5 June, morning (second) • Room: Seminario 3

- 12:45: **TOMÁS GOLOMB DURÁN** [TSF.4-O-1] "Specifind: Extracting Occurrences from Scientific Literature Using NLP Techniques."
- 13:00: **ALEJANDRO ROLDÁN PÉREZ** [TSF.4-O-2] "A new Comprehensive Platform for Biodiversity Data Integration and Research"
- 13:15: **TOMMASO CANCELLARIO** [TSF.4-O-3] "biodumpy: A new Python package to download comprehensive biological data."
- 13:30: **DANIEL FERNÁNDEZ ROMÁN** [TSF.4-O-4] "Unravelling the temporal variability of diazotrophy in dynamic upwelling bays"
- 13:45: **ITZIAR BURGUES MARTINEZ** [TSF.4-O-5] "Low-cost time-lapse camera system combined with automated image analysis to study the shallow-water Mediterranean sponge *Aplysina aerophoba*."
- 14:00: **MARÍA LEO** [TSF.4-O-6] "Applications of the BtM, a Customizable Open-Source Datalogger, for Monitoring Long-Term water dynamics in Cryptogam Dynamics"

III SIBECOL & XVII AEET Meeting

Another science is possible: diversity, degrowth,
and sustainability in ecological research

