Frontiers in E3 10th CE3C Annual Meeting

10 years defying the frontiers of knowledge

RINGS OF EXPERIENCE: GROWING TOWARDS TOMORROW

12-14 DECEMBER 2024

MONSANTO INTERPRETATION CENTER

LISBON'S GREEN LUNG







Welcome to the 10th Frontiers in E3 CE3C's Annual Meeting

This milestone edition, themed "Rings of experience: growing towards tomorrow," celebrates a decade of growth, resilience, and scientific discovery within our community. Over the years, our annual meetings have become a symbol of the collaborative spirit and dedication that drives CE3C, bringing together researchers, ideas, and ambitions from diverse fields of Ecology, Evolution, and Environmental Changes.

As we gather for this special 10th anniversary, we reflect on the knowledge and connections built over the years and look forward to the innovations and insights that will shape the next decade. Through this meeting, we celebrate our collective journey and embrace the future, building on the experiences that bind us and propel us forward.

Thank you for being part of this shared vision, and welcome to a memorable event!

The organising committee

Organising committee



Scientific committee





Rings of experience: growing towards tomorrow



SHORT PROGRAMME

12
December



09H00 Check-in

09H30 Opening session

10H00 Spotlight Session

10H45 Short / Flash Talks

11H15 Coffee-break

11H45 Short Talks

12H30 Lunch

13H30 Short / Flash Talks

14H30 Parallel Activities & Coffee-break

17H00 Return to CIÊNCIAS

20H00 Meeting's Dinner

09H00 Spotlight session

09H45 Short / Flash Talks

10H45 Coffee-break

11H15 Short / Flash Talks

12H40 Lunch

13H30 Poster session

14H30 Participatory Budget

15H30 Awards

16H00 Coffee-break

16H30 Closing session

17H00 Return to CIÊNCIAS



09H00 Departure from CIÊNCIAS

10H00 Arrival at EVOA

12H30 Lunch

14H30 Return to CIÊNCIAS



Rings of experience: growing towards tomorrow



PROGRAMME



All talks marked with a are eligible for an award.
Please cast your vote by 15h00 on the 13th.

9h00

Check-in

9h30

Opening session

Rui Rebelo, CE3C Executive Committee

Pedro Miguel Martins, Director of the Monsanto Interpretation Centre

Gabriela Rodrigues, CE3C Executive Committee

10h00

Spotlight Session

Chair: Rui Rebelo

SP1

A Tale of Two Canids: Diet Composition and Livestock Depredation Patterns of Wolves and Dogs

Sofia Lino, Conservation Ecology and Society Ecology and Conservation Across Scales

SP2

What happens to the wild wood mouse when in captivity?

Maílis Carrilho, Ecophysiology of Small Mammals Towards Sustainable and Resilient Ecosystems

10h45

Short / Flash Talks

Chair: Mónica Cunha

ST1

Mouse and human models to test LAMA2-MD therapeutic approaches

Diogo Fernandes, Molecular Mechanisms of Disease

ST2

Age- and sex-specific control of locomotor behavior by neuronal Arhgef10 in Drosophila

Mafalda Gualdino, Integrative Biomedicine

FT1

Why is our heart on the left side?

Susana S. Lopes, Cilia in Development and Disease

11h15

Coffee-break

11h45	Short Talks Chair: Carlos Fernandes
ST3	Hybridization shaping speciation? The case of the Iberian chubs (Genus Squalius) Estêvão Faustino, Evolutionary Genomics and Bioinformatics
ST4	Ecological differentiation influences the evolution of pre-zygotic isolation in spider-mite species Salomé Barreto, Adaptation to Complex Environments
ST5	A genetic trade-off between intrinsic growth and sensitivity to competition, but not with reproductive interference, in spider mites Miguel Cruz, Evolution of Host-Parasite Interactions
ST6	Experimental coevolution of plant-herbivore interactions Erik van Bergen, Adaptation to Complex Environments
12h30	Lunch
13h30	Short / Flash Talks Chair: Alice Nunes
ST7	Resilient Mediterranean Landscapes Miguel Silva Rodrigues, Plant Functional Ecology
ST8	Drivers of urban freshwater invertebrate communities along a climate gradient Vladimira Dekanova, Urban Ecology
ST9	Assessing bias in conservation translocations in the Iberian Peninsula: taxonomic, conservation status, and functional diversity insights Sara Carona, Urban Ecology
FT2	When Evolution shows a taste switch: terpene synthase binding preference in Menthinae, Lamiaceae Joel Laia, Plant Functional Ecology
FT3	Integrating Permaculture in business and management education to foster sustainable business practices: first steps of the PermaLABs project Florian Ulm, Plant Functional Ecology
FT4	From the world to the Mediterranean - a Miyawaki method review Florian Ulm, Plant Functional Ecology (representing António Alexandre, Plant-Soil Ecology)
FT5	Lusoturf - Mycelium-based Composites and Production Methods for Sustainable Synthetic Turf Applications Inês Ferreira, Plant-Soil Ecology
14h30	Parallel activities & coffee-break
	Guided visits to LIFEPLAN project plots at Biodiversity Space Group dynamics organised by the Associate Members Poster session
17h00	Return to CIÊNCIAS

20h00

Dinner at 39 Degraus

Cinemateca, R. Barata Salgueiro 39, 1269-059 Lisboa





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9h00	Spotlight Session	Chair: Gabriela Rodrigues
SP3	Diversification and selection European sardine: insights for Filipe Sousa, Computational Biolo Evolutionary Perspectives in a Changing	rom mitogenomes gy and Population Genomics g World
SP4	A conserved gene regulation cell dormancy across mamma. Alisson Gontijo, Integrative Biome Environment and Health Interactions	nalian species and tissues
09h45	Short / Flash Talks	Chair: Guilherme Oyarzabal da Silva
ST10	Conservation, monitoring and restor the world-class cave biodiversity how Ana Sofia Reboleira, Subterranean Eco	tspot in Portugal
ST11	Do island spiders descend from trees niche expansion according to vertica Ricardo Pires da Costa, Island Biodiver	al microhabitat
ST12	Feathers and fangs: Metabarcoding of birds and bats in West African low Tiago Morais Gonçalves, Tropical and	vland rice fields
ST13	Landscape to Microhabitat: Uncover Multiscale Complexity of Azorean Fo Sébastien Lhoumeau, Island Biodiversi	prests
ST14	Scree slopes of Portugal: habitat dist Rita Eusébio, Subterranean Ecology	tribution and biodiversity
FT6	Plant-pollinator interactions and podisturbance gradient in an oceanic i Mário Boeiro, Island Biodiversity, Bioge	sland (Terceira, Azores)
10h45	Coffee-break	
11h15	Short / Flash Talks	Chair: Ana Rainho
ST15	Nonlinear responses structure licher to global change drivers across Euro Bernardo Reis Rocha, Urban Ecology	•
ST16	Habitat connectivity in urban conte an analysis using a multitaxon appro	

Ana Isabel Beça, Urban Ecology

ST17	Assessing Threats and Conservation Strategies for Endemic Terrestrial Arthropods in the Azores Guilherme Oyarzabal da Silva, Island Biodiversity, Biogeography & Conservation
	Mammalian response to FSC forest certification in production plantations
	Gonçalo Matias, Conservation Ecology & Society Ecology and conservation of subterranean
117	fauna from the Greater Lisbon area, Portugal Rafael Silva, Subterranean Ecology
FT8	The effects of climate change on meso and small carnivores:
	a review and meta-analysis Vasco Valdez, Conservation Ecology & Society
12h40	Lunch
13h30	Poster session
14h30	CE3C Participatory Budget 2023 Chair: Ricardo Costa
PB1	Thermal evolution: candidate genes for adaptation to global warming Marta Antunes, Local Adaptation in Drosophila
PB2	Genomic signatures of selection in hybridising ants: how does temperature affect viability selection during early development? Beatriz Portinha, Evolutionary Genomics and Bioinformatics
РВ3	The winner takes it all: when successful invasion is powered by symbiosis Joana Jesus, Plant Functional Ecology
	CE3C Participatory Budget 2024 Chair: Ricardo Costa
PB4	Modeling Ecological Succession and Time of Surface Exposure in Extreme Environments Mariana Ramos, System Ecology
PB5	Sowing the Seeds of Resilience: Transforming the White Crowberry into a Thriving Crop João Jacinto, Plant Functional Ecology
PB6	Origin of polymorphism – chemotypes in the Portuguese plant Thymus caespititus Joel Laia, Plant Functional Ecology
15h30	Ana Neto and Meeting Awards Chair: Gabriela Rodrigues
16h00	Coffee-break
16h30	Closing session
101100	Closing session
	Cristina Máguas, CE3C Coordinator Luís Carriço, Dean CIÊNCIAS ULisboa

Rings of experience: growing towards tomorrow

POSTERS

All posters marked with a are eligible for an award.
Please cast your vote by 15h00 on the 13th.

TL1 Ecology and Conservation Across Scales

- P1 ForCe Forest Certification as a tool to preserve vertebrates' biodiversity in exotic forestry plantations
 Luís Miguel Rosalino, Conservation Ecology & Society
- P2 Businesses and Biodiversity: How much do corporate actions influence species resilience?

 Afonso Barrocal, Conservation Ecology & Society
- P3 Contribution of Green Roofs to the Biodiversity of Lisboa Margarida Rei, Tropical and Mediterranean Biodiversity
- P4 The role of FSC-forest certification in the conservation of bird communities
 Beatriz Monteiro, Tropical and Mediterranean Biodiversity
- P5 Ecological role of terrestrial cave-adapted isopods in bioturbation and nutrient redistribution in subterranean sediments

 Leonor Silva, Subterranean Ecology
- P6 Impacts of wildfires in groundwater ecosystems: adapted aquatic organisms are more vulnerable due to the incapacity to trigger anaerobic energy production Maria Isabel Dias, Subterranean Ecology
- P7 Decomposition of organic matter in caves and its forensic implications
 Rita Moreira, Subterranean Ecology
- P8 Non-invasive genetic monitoring and population size estimation of Iberian wolf Canis lupus signatus in northwest Portugal Margarida Almeida, Conservation Ecology & Society

TL2 Evolutionary Perspectives in a Changing World

- Using cell culture of endemic freshwater fish to study the effects of temperature on plasticity
 Catarina Santos, Evolutionary Genomics and Bioinformatics
- P10 Evolving tensions: The role of stressful environments in shaping sexual conflict in a haplodiploid species
 Sofia G. Costa, Evolutionary Agroecology
- P11 Adapt, adjust or move: can the spider mites
 Tetranychus cinnabarinus do it all in response to heat?
 Raquel Gaspar, Evolutionary Agroecology
- P12 Building a recombination map of Iberian chubs: challenges in the experimental design

 Catarina M. Bernardo, Evolutionary Genomics and Bioinformatics



- P13 Inducible tomato defences persist in detached leaves, but are differentially affected by plant integrity and genotype Mariya Kozak, Adaptation to Complex Environments
 P14 The Subway's hidden inhabitants A study of Lisbon's metro microbiome Beatriz Machado, Computational Biology and Population Genomics
 P15 Tipping the scale: investigating the feedback between
- P15 Tipping the scale: investigating the feedback between evolution and stability in a predator-prey system

 Tamara Wonner, Adaptation to Complex Environments
- P16 Estimating trait heritability and variation in predator-prey dynamics
 Raquel Tomé, Adaptation to Complex Environments

TL3 Environment and Health Interactions

- P17 LAMA2-deficiency impacts DNA damage in melanoma Vanessa Ribeiro, Molecular Mechanisms of Disease
- P18 Laminin-α2 chain deficiency in skeletal muscle causes dysregulation of multiple cellular mechanisms

 Susana Martins, Molecular Mechanisms of Disease
- P19 Analysis of the effect of hydrodynamism on the regulation of sea urchin adhesion: a molecular and biomechanical approach

Inês Caldeira, Molecular Mechanisms of Disease

- P20 Crosstalk between the relaxin and insulin signaling pathways during neurodevelopment in Drosophila Rebeca Zanini, Integrative Biomedicine
- P21 Analyzing AKT in skeletal muscle in development and disease Ana M. Alves, Molecular Mechanisms of Disease
- P22 Towards the Full Picture of LAMA2-CMD:
 Bridging the Gap to Human Pathophysiology Through Patient-Derived Myoblasts
 Pedro Gameiro dos Santos, Extracellular Matrix in Development and Disease
- P23 Environmentally-sensitive neuroregulation of wing expansion behavior by eclosion hormone
 Lara Lage, Integrative Biomedicine

TL4 Towards Sustainable and Resilient Ecosystems

- **P24** Plantar Arroz Exploring Circular Economy in Rice production Inês Ferreira, Plant-Soil Ecology
- P25 Soil Characteristics Along the Land to Mangrove Gradient in Coastal Areas of Guinea-Bissau Juliana Melo, Plant-Soil Ecology
- P26 DryBound: a synthetic microbial consortium co-designed by drought and tomato plants

 Ana Margarida Santos, Plant-Soil Ecology
- Bioprospecting and Physiological Characterization of Glyphosate-Tolerant Bacteria Isolated from an Arabica Coffee Plantation in Guarapari-ES Brazil

 Brena Souza, Plant-Soil Ecology

- P28 Understanding the Aggressive Invasion by Gunnera tinctoria (Molina)
 Mirbel and Hedychium gardnerianum Sheph. ex Ker Gawl. in the
 Azorean Ecosystem Allelopathy as a Weapon of Choice
 Wilson Rodrigues Tavares, Natural Products and Applications
- P29 A metagenomic study of the gut microbiota of three populations of Rana temporaria across a latitudinal gradient dependent on temperature and dietary shifts

 Daniela Deodato, Freshwater and Invasion Biology
- P30 Increased survival of Parageobacillus thermoglucosidasius, a thermophilic soil bacterium, in a rhizosphere milieu

 Ana Paula Rosa, Plant-Soil Ecology
- P31 Soil health, functionality and pollution mitigation in urban permaculture sites along a spatiotemporal gradient Annika Haag, Plant-Soil Ecology
- P32 A Comparative Analysis of Island vs. Mainland Arthropod
 Communities in Coastal Grasslands Belonging to Two Distinct Regions:
 São Miguel Island (Azores) and Mainland Portugal
 Hugo Calado, Agroforestry Ecology

