









# Frontiers in E<sub>3</sub> | 8th Annual Meeting From islands to the world: interconnecting science

08-09 September 2022 Universidade dos Açores, Angra do Heroísmo

# **Detailed Program**











# From islands to the world: interconnecting science

# September, 8th Program

9hoo Participants reception Campus Hall

9h45 Opening Session Auditorium

> Gabriela Rodrigues cE3c Scientific Council & Paulo A.V. Borges Azorean Biodiversity Group (cE3c) Director & Luís Furtado Pro-Rector of the Campus of Angra do Heroísmo of the University of Azores, in representation of the Rector of the University of the Azores

# Sustainable Environment: Biodiversity/Evolution & Climate Change

Chair: João Pedro Barreiros

# Plenary Session Auditorium

10hoo Rúben Heleno Centre for Functional Ecology (CFE, University of Coimbra) "Run, Forest, Run!"

11hoo Coffee-break Campus bar

Auditorium

#### **Parallel Sessions**

Chair: <b>Sara Magalhães</b>
Room C-025

11h30 Joana Jesus ESFE Acacia longifolia nodules' histology Marta Antunes EE Gene expression of Drosophila and rhizobia diversity throughout ecosystems Q subobscura evolving in a Global Warming scenario 🤶

Beatriz Portinha EG Effect of temperature on the 11h40 Andreia Anjos ESFE Phenological variability among Eucalyptus globulus clonal and seedling-based trees Q reproductive output and early development of hybrid mound building wood ants: a pilot study Q

11h50 Filipe de Sousa CoBig2 Diversity and structure in cork Sophie Wallon IBBC Impact of a short-term simulated oak (Q. suber L.) revealed by nuclear microsatellite climate change on arthropod communities associated markers and cpDNA with pastures in Terceira (Azores, Portugal) 📿

**12hoo** Wilson Tavares IERS Hedychium gardnerianum and its Carla Alegria ESFE Living a colourful life: a potential as biopesticide against Ceratitis capitata Q photoselective-net approach in apple orchards

12h10 Fernando Ascensão eChanges Human Footprint as Afonso Grandela EE The impact of thermal selection basal information for detecting connectivity corridors on the mating behavior of the monandrous fruit fly Drosophila subobscura 🤵

**12h2o** Raul Pereira EE Trophic allometry in predators that Sofia Costa EE Multiple mating rescues offspring sex carry corpses of their prey ratio but not number in a haplodiploid exposed to heat stress 🤶

12h23 João Bernardo Barreiros IBBC Mutilations 12h30 Firdaous Halim IERS Nature-based solutions and their and malformations in cetaceans - a discussion socio-economic effectiveness for climate change of recent cases adaptation in marine and coastal ecosystems

12h26 Discussion 12h33 Discussion

13hoo Lunch Campus canteen











# From islands to the world: interconnecting science

# September, 8th Program

#### Poster Session Room C-023

14h30 Please see the poster list at the end of the program

### Sustainable Environment: Biodiversity/Evolution & Climate Change

#### **Parallel Sessions**

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Chair: Rosalina Gabriel

Room C-025

Chair: Tiago Lourenço

**15h30** Gabor Pozsgai IBBC The influence of biotic and abiotic drivers on arthropod co-occurrence network topology in native forest remnants in the Azores

**15h40** Ricardo Costa IBBC Vertical distribution of spider families in Macaronesia native forests according to their colonization status 🤉

**15h50 Paulo A.V. Borges** IBBC The application of the Index of Biotic Integrity (IBI) for monitoring purposes

**16hoo** Mário Boeiro IBBC The Argentine ant in Portugal: major ecological impacts by a small invader

Inês Fragata EE Adaptation to cadmium shapes coexistence patterns in herbivore species

Diogo Godinho EE Herbivores adapt to metalaccumulating plants but lose their non-linear response at low metal doses

Miguel Cruz EE Eco-evolutionary consequences of O costly sexual interactions in hybridizing spider mites

Antonio Cordero DEM The phenotypic consequences of microclimatic change in a developing reptile

16h10 Discussion

16h3o Coffee-break Campus bar 🛱 🗭



# Auditorium

Chair: Rui Elias

17hoo Celia Cañizares IBBC LIFE INVASAQUA: project outcomes and materials to raise awareness and prevent aquatic invasive alien species in the Iberian Peninsula

17h10 Luís Barcelos IBBC Diversity in deep-sea foraging reflects a diverse deep sea

17h20 Luís Barcelos IBBC Macaronesia as a biogeographic unit: what the diversity of sea turtles and cetaceans tells us 🤵

17h30 Maria Dias CSES Tracking birds to reveal migratory and terrestrial-marine connectivity *Room C-025* 

Chair: Margarida Matos

Francisco Pina-Martins CoBig2 Selection detection on a massive scale for non-model organisms

Bernardo Rocha eChanges To see past pollution – a key step towards the global application of lichens as ecological indicators of climate change in cities Q

Cristina Antunes ESFE Groundwater-driven changes in coastal dune vegetation

Discussion

17h40 Discussion

**18hoo** End of 1<sup>st</sup> day | *The island awaits you!* 









# From islands to the world: interconnecting science

# September, 9<sup>th</sup> Program

# Sustainable Health and Society

Chair: Gabriela Rodrigues

# Plenary Session Auditorium

João Paulo Teixeira National Health Institute Doutor Ricardo Jorge (Porto) "One Planet, One Air, Our Home!"

Coffee-break Campus bar 🗓 🗭 10h00

# Regular Session Auditorium

Carolina Gándara PSE Plasmid domestication for sustainable agriculture (AGRIPLAS)

Leonor Rodrigues EE On the road to sustainability aboard the Agroecological Caravan 10h40

10h50 Mario Yanez CCIAM Organized complexity, the patterns that connect, and the organization of knowledge: implications for the Great Warming O

Patrícia Garcia IERS Volcanism and human health: the hazardous effects of hydrothermal emissions on the 11h00

respiratory system [Did not attend due to logistic constraints]

11h10 Pedro Santos DEM Decellularized 3D Matrices: an in vitro approach to cell dynamics in the context of muscular

dystrophy O

Filipe Bernardo IERS Influx of cruise ships has not significantly impacted air quality at Ponta Delgada city 11h20

11h30 Discussion

12hoo Lunch Campus canteen



# **Sharing our Science**

Chair: Rosalina Gabriel

# Invited Speakers' Session Auditorium

13h30 Sara Luna Biotechnology Centre of Azores - School of Agricultural and Environmental Sciences (CBA) Virome analysis of Azorean native plants

Rita Cordeiro Research Center in Biodiversity and Genetic Resources (CIBIOInBIO-Azores) Cyanobacteria biodiversity 13h40 and toxicity assessment in the Azores

Joana Barcelos e Ramos Institute for Research and Technology of Agronomy and Environment (IITAA) 13h50 Phytoplankton – bacteria interactions in a changing ocean

14h00 Diana Catarino Institute of Marine Sciences, Okeanos Comparing non-invasive monitoring techniques with longlines catches for deep-water sharks monitoring and conservation

Diana Linhares Research Institute for Volcanology and Risk Assessment (IVAR) Essential elements in the volcanic 14h10

soils of São Miguel (Azores): linking geology to human and animal health

14h20 Discussion









# From islands to the world: interconnecting science

# September, 9<sup>th</sup> Program

#### Project Winners | cE3c Participatory Budgeting 2021 Auditorium

Chair: Rui Rebelo

14h45 Ana Júlia Pereira ESFE Contrasting effects of management on the phylogenetic diversity of arable plant communities: implications to their conservation

Raquel Mendes CSES "Escolas biodiversas" project: online questionnaire for teachers and activities for students 14h55 on the topics of biodiversity and sustainability

Paolo Vaglini PSE Priming of the wheat holobiont: novel insights on the mode of action of bacterial inoculants 15h05 unraveled by untargeted FT-ICR-MS metabolomics [Pre-recorded communication]

15h15 Discussion

15h3o Coffee-break Campus bar 🕩 🗭

#### Project Winners | cE3c Participatory Budgeting 2022 Auditorium

Chair: Tiago Lourenço

**16hoo** Alejandra Ros Prieto IBBC Biodiversity characterization and comparison between different types of pasture hedges (exotic plants and native plants) in Pico island

Ana Luísa Barros CSES Mechanisms of coexistence between mesocarnivores in High Nature Value Farmlands: 16h10 valuing their ecological role through community outreach

**16h2o** Gonçalo Costa CoBig2 The Final Cries: Species discovery and documenting habitat loss of Moroccan cicadas

Susana Martins DEM Using p53 deletion to revert LAMA2-congenital muscular dystrophy

16h40 Discussion

# **Closing Ceremony Auditorium**

17hoo Paulo A.V. Borges Azorean Biodiversity Group (cE3c) Director

> Rui Bento Elias President of Assembly of the Faculty of Agricultural Sciences and Environment of the University of the Azores

Cristina Máguas cE3c Director

**Artur Lima** Vice-President of the Regional Government of the Azores

**Artur Gil** Vice-Rector for "Science, Innovation, and Knowledge Transfer" of the University of the Azores

"Ana Neto Award" Prize-giving by the Vice-President of the Regional Government 17h30

of the Azores, Artur Lima, to the best cE3c PhD Student of 2021

Best Poster Prize-giving by Professor Margarida Matos

Best Short Talk Prize-giving by Professor Cristina Máguas

18hoo Closing remarks









From islands to the world: interconnecting science

September, 10<sup>th</sup> Program

# Field trips Outdoor

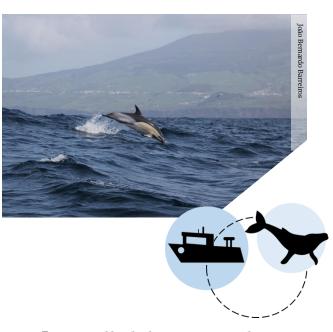
# Morning

Guide: Paulo Borges

Journey into a **Hyper-Humid Forest** 

# Whale & Dolphin **Watching Tour**





Guide: João Pedro Barreiros

[Cancelled due to weather conditions]

















# From islands to the world: interconnecting science

#### List of Posters

#### Sustainable Environment: Biodiversity/Evolution & Climate Change

Ana Seca IBBC Cystoseira abies-marina: Extraction of antiaging compounds by optimized green methodology

Inês do Rosário CSES LTSER Montado Platform: building the future database

Manuela Sim-Sim NHS The long journey of Exormotheca pustulosa (Exormothecaceae, Marchantiophyta). Insights from an integrative taxonomic study

Maria Filomena Magalhães CSES Beta diversity patterns in intermittent rivers: dispersal limits to fish metacommunity assembly

Maria Filomena Magalhães CSES Living at the edge: status and conservation management of brown trout in Portuguese rivers

Mário Boieiro IBBC Análise preliminar da riqueza de carabídeos (Coleoptera, Carabidae) em habitats característicos do Parque Nacional da Gorongosa (Moçambique)

Mário Boieiro IBBC The Caraboidea (Coleoptera: Cicindelidae, Carabidae) of the Gorongosa National Park (Mozambique). A preliminary approach

Ana Paula Rosa PSE Soil, vegetation and cropland interactions in the shores of Guinea-Bissau, West Africa

Ana Paula Rosa PSE The importance of drought stress early identification: tomato as a case study Q

Anabela Martins NHS Effects of climate change in Macaronesian unisexual bryophytes. Understanding rarity to ensure conservation strategies in the face of global change O

Sara Vicente ESFE Genetic structure and variation of isotopic contents of native and invasive populations of Acacia longifolia

Tomás Calheiros eChanges Environmental Module of the Integrated Assessment Model WILIAM

Bishwajit Roy CCIAM Sea level rise induced impacts on coastal areas of Bangladesh and local-led community-based adaptation 🔘

Mariya Kozak EE Spider mites do not modify their interaction with plant defences when evolving with a competitor 🤵

Marta Ferreira EE Adaptation of Tetranychus urticae to cadmium on a spatially heterogeneous environment: a genomics approach 🤘