

3rd MED Meeting

June 16-17, 2025 | UEVORA | Mitra Campus

Science for Resilient Agroecosystems and Sustainable Future



ORGANISING COMMITTEE

Fátima Baptista
Anabela Romano
Cláudia Vicente
Elsa Lamy
Fátima Duarte
Luís Gomes
Nuno Pedroso
Rui Lourenço
Sofia Eufrázio
Susana Filipe

SCIENTIFIC COMMITTEE

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António Mira
Bruno Medronho
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Maria de Belém Costa Freitas
Maria de Fátima Duarte
Maria Helena Guimarães
Maria João Cabrita
Marta Laranjo
Miguel B. Araújo
Rui Charneca
Rui Lourenço
Teresa Pinto Correia

SHORT PROGRAMME

Day 1 – June, 16



Mitra's
Conference
Room

10:30–12:30

MED Scientific Council

12:30–14:00

Lunch + Registration

14:00–14:20

Opening Session

14:20–15:00

MED: Looking Back, Moving Forward

15:00–15:40

Presentation of PRR projects
coordinated by MED researchers and
Q&A

15:40–16:10

Coffee-break

16:10–17:00

Presentation of PRR projects
coordinated by MED researchers and
Q&A (cont.)

Day 2 – June, 17



Mitra's
Conference
Room

9:30–10:30

5min pitches aligned with MED Goals
and Q&A

10:30–11:00

Coffee-break

11:00–12:45

5min pitches aligned with MED Goals
and Q&A

12:45–14:20

Lunch

14:25–14:30

Group Photo

14:30–15:30

Scientific Exhibitions

15:45–16:45

5min pitches aligned with MED Goals
and Q&A

16:45–17:00

Closing Session

Ário Lobo de
Azevedo – 132B

Mitra's
Conference
Room

FULL PROGRAMME

Day 1 – June, 16

10:30–12:30

MED Scientific Council Meeting

12:30–14:00

Lunch + Registration

14:00–14:20

Opening Session

Hermínia Vasconcelos Vilar, University of Évora Rector
Rui Salgado, Institute for Research and Advanced Training (IIFA) Director
Fátima Baptista, MED Director

14:20–15:00

MED: Looking Back, Moving Forward

Nuno Pedroso, MED Executive Director

15:00–15:40

**Presentation of PRR projects
coordinated by MED researchers**

Chair: Anabela Romano

15:00–15:10

PEGADA 4.0 – Sustainability in agriculture supported by intelligent processes and technologies – assessing the biodiversity footprint

Rui Lourenço – Ecology & Biogeography / José Rafael Marques da Silva – Soil, Water, Plant & Farming Technology

15:10–15:20

SUMO – Sustainability of the Montado

Rui Charneca – Animal Biosciences

15:20–15:30

Montados Net-Zero – Innovation networks to increase resilience and progress towards carbon neutrality in the rural areas of the South

Teresa Pinto Correia – Landscape Dynamics & Management

Questions & Answers (10min)

FULL PROGRAMME

15:40-16:10

Coffee-break

16:10-17:00

**Presentation of PRR projects
coordinated by MED researchers**

Chair: Anabela Romano

16:10-16:20

INOVCIRCOLIVE - Innovation and circularity in the olive sector

Diogo Rezende Coelho - Soil, Water, Plant & Farming
Technology

16:20-16:30

**Vine and Wine Portugal - Driving Sustainable Growth
Through Smart Innovation**

Maria João Cabrita - Food Science & Technology

16:30-16:40

**REVITALGARVE - Revitalization of rural areas in the
Algarve: resilience and innovation in
the creation of territorial food systems**

Jorge Pereira - Food Science & Technology

16:40-16:50

**NEXUS - Innovation agenda for digital and green
transition**

Teresa Batista - Landscape Dynamics & Management

Questions & Answers (10min)

FULL PROGRAMME

Day 2 – June, 17

9:30–10:30

**5min pitches aligned with
MED Goals:**

Chair: Cláudia Vicente

**1) Improve resources use efficiency
5) Foster the resilience, mitigation, and adaptation of
agroecosystems and biodiversity conservation to
environmental and climate changes**

**Evaluation of a manure spreader on localized application of olive
leaves in vineyards**

António Bento Dias – Soil, Water, Plant & Farming Technology

**GEDICorrect: A python framework for GEDI geolocation correction
using multiple criteria and parallel processing methods**

Leonel Corado – Ecology & Biogeography

**Understanding the dynamic patterns of quorum SENSing signals in
ROOT colonization and biofilm formation**

Clarisse Brígido – Plant Protection, Genetics & Biotechnology

**Metabolomics as a phenotyping tool for *Vitis vinifera* cultivar
characterization**

Lénia Rodrigues – Plant Protection, Genetics & Biotechnology

**RNA-Seq transcriptome analysis reveals novel molecular networks
involved in Cynaropicrin Biosynthesis in *Cynara cardunculus* L.**

Ana Paulino – Plant Protection, Genetics & Biotechnology

Questions & Answers (5min)

**Exploring the potential of the Carob tree for sustainable agriculture
in Alentejo**

Hélia Cardoso – Plant Protection, Genetics & Biotechnology

**Combining mulch and biochar to increase the carbon sink capacity
in Mediterranean vineyards and olive orchards**

João Canedo – Soil, Water, Plant & Farming Technology

FULL PROGRAMME

Day 2 – June, 17

Role of permanent crops in soil carbon sequestration: a comparative study between avocado orchard and fallow land

Pedro Matias – Soil, Water, Plant & Farming Technology

***In vitro* culture as a sustainable strategy for secondary metabolite production**

Inês Mansinhos – Plant Protection, Genetics & Biotechnology

Airborne pollen and fungal spores monitoring data: application on health, agronomy, environment and climate change fields

Elsa Caeiro – Animal Biosciences

Questions & Answers (5min)

10:30–11:00

Coffee-break

11:00–12:45

Chair: Rui Lourenço

5min pitches aligned with MED Goal:

2) Improve sustainability of food systems

Mediterranean diet and brazilian red propolis: bioactive synergy in oral health promotion

Rosana Solon Tajra – Animal Biosciences

Epigenetic modulation in plants: exploring DNA methylation and miRNA dynamics across different environmental contexts

Catarina Campos – Plant Protection, Genetics & Biotechnology

AlBread: Bioactive Potential of Alentejo and Algarve Essential Oils in Functional Bread Formulation

Bruno Medronho – Plant Protection, Genetics & Biotechnology

FULL PROGRAMME

Day 2 – June, 17

Comparative Study of Volatile Profiles in Eco-friendly *Ficus carica* L. Liqueurs Produced from Leaf- and Fruit-Byproducts of White and Dark Cultivars

Raquel Rodríguez Solana – Plant Protection, Genetics & Biotechnology

GC×GC-ToFMS stands for?

Daniela Fonseca – Food Science & Technology

Questions & Answers (5min)

Emulsions featuring the “mother of vinegar” for food and crops

Hugo Duarte – Plant Protection, Genetics & Biotechnology

1-Methylcyclopropene and lemongrass essential oil nanocoatings effect on the preservation of cold stored ‘Rocha’ pear

Custódia Gago – Food Science & Technology

Microbial characterization of white pig dry-cured sausage

Sara Conceição – Food Science & Technology

Comparative proteomic analysis of *Trioza erytreae* nymphs developed on *Citrus ×limon* and *Citrus ×sinensis* host plants

Tomás Magalhães – Soil, Water, Plant & Farming Technology

Nematicidal activity of phytochemicals against the root-lesion nematode *Pratylenchus penetrans*

Pedro Barbosa – Plant Protection, Genetics & Biotechnology

Questions & Answers (5min)

Mode of action of two plant-derived compounds on the root-lesion nematode *Pratylenchus penetrans*

Cláudia Vicente – Plant Protection, Genetics & Biotechnology

The effect of the olive fruit fly infestation on the quality parameters of virgin olive oil and its relation to the commercial classification

Miguel Ferro – Food Science & Technology

ALTFoodSense

Elsa Lamy – Food Science & Technology

FULL PROGRAMME

Day 2 – June, 17

Truffle aroma – who produces it?

Celeste S. e Silva – Ecology & Biogeography

Agroecology assessment tools as a framework for agri-food systems' sustainability

José Muñoz-Rojas – Landscape Dynamics & Management

UAV-based monitoring of soil erosion in Mediterranean agricultural orchards under low erosion rates

Sergio Prats – Soil, Water, Plant & Farming Technology

Questions & Answers (5min)

12:45–14:20

Lunch

14:25–14:30

Group Photo



14:30–15:30

Scientific Exhibitions



FULL PROGRAMME

Day 2 – June, 17

14:30–15:30

Scientific Exhibitions

Rebooting the Montado: Restoring Ecosystems with Genetic Precision

Liliana Marum – Plant Protection, Genetics & Biotechnology

The contribution of molecular and biotechnological plant sciences to sustainable mediterranean agriculture

Catarina Estêvão – Plant Protection, Genetics & Biotechnology

AlBread – Aromatic plants from Alentejo, probiotics and acorn flour for the development of functional bread

Margarida Oliveira – Plant Protection, Genetics & Biotechnology

Antifungal potential of essential oils and their stabilization with bacterial cellulose in a functional bread

Isabela Vera dos Anjos – Plant Protection, Genetics & Biotechnology

From biomass to beauty: Lignin-based conditioning agents for sustainable cosmetics

Catarina Fernandes – Plant Protection, Genetics & Biotechnology

CynaraHub – a circular bioeconomy approach to enhance the economic valorization of *Cynara cardunculus*, promoting territory resilience

Fátima Duarte – Food Science & Technology

Connected to Science: Innovating in Science Communication for Inclusive Development and Resilient Agroecosystems

Rita Martins – Food Science & Technology

Biochar application: impact on the germination index of lettuce (*Lactuca sativa* L.) in agricultural soil

Luísa Coelho – Plant Protection, Genetics & Biotechnology

Solutions for the valorization of surpluses from the olive oil sector

António F. Bento Dias – Soil, Water, Plant & Farming Technology

Impact of Harvest and Post-Harvest Practices on the Abundance of *Ceratitis capitata* (Wiedemann) (Diptera: Tephritidae)

Silvio Junior – Plant Protection, Genetics & Biotechnology

FULL PROGRAMME

Day 2 – June, 17

15:45–16:45

**5min pitches aligned with
MED Goals:**

Chair: Susana Filipe

**3) Assure environmental integrity, biodiversity
conservation and landscape multifunctionality**

**4) To promote organisational capability, governance
mechanisms and inclusive development**

**Intraguild predation and interference competition amongst
raptors in Europe**

Rui Lourenço – Ecology & Biogeography

**Small mammal diversity in Mediterranean agroecosystems:
insights from barn owl pellets in traditional farming
landscapes**

Ricardo Pita – Ecology & Biogeography

**Spatiotemporal dynamics of pastures in Portugal between
1995 and 2018**

Rui D. P. Machado – Landscape Dynamics & Management

**Montados and Miombo forests impacts on adaptation of the
soil surface to temperature variation, case of Alentejo central
in Portugal and Mavago district in Mozambique**

Miguel P. Ferreira – Landscape Dynamics & Management

**Mapping global conservation priorities across natural,
production and urban lands**

Diogo Alagador – Ecology & Biogeography

Questions & Answers (5min)

FULL PROGRAMME

Day 2 – June, 17

LDT – From landscape metrics back to patterns

Rui D. P. Machado – Landscape Dynamics & Management

Bacterial Diversity and Biotechnological Potential of Mediterranean Fruit Tree Ecosystems and Vinegar-Derived *Komagataeibacter* Strains

Diogo N. Proença – Plant Protection, Genetics & Biotechnology

BioBlitz Herdade da Mitra: One day, one mission – Bringing people together for biodiversity

Ana Sampaio – Ecology & Biogeography

Social Science for Strengthening Governance Structures

Maria Helena Guimarães – Landscape Dynamics & Management

Questions & Answers (5min)

16:45–17:00

Closing Session

Maria João Costa, University of Évora Vice-Rector for Research, Innovation and Internationalisation

Fátima Baptista, MED Director

Anabela Romano, MED-UAIg Coordinator

Fátima Duarte, MED-CEBAL Coordinator