

SCIENTIFIC PROGRAMME

APRIL 23

- 09h00 Opening Session** | Ricardo Jorge Dinis-Oliveira (UCIBIO; 1H-TOXRUN, IUCS-CESPU), Félix Carvalho (UCIBIO; FFUP), Ana R. Freitas (UCIBIO; 1H-TOXRUN, IUCS-CESPU)
- 09h30 Opening Lecture** | A Warming Planet, A Shared Vulnerability: Climate Change Through the One Health Lens. | Félix Carvalho (UCIBIO; FFUP)
- 10h15 Coffee Break**

SESSION I

Emerging Toxic Threats to One Health

CHAIRS: Eduarda Silva (UCIBIO, 1H-TOXRUN, IUCS-CESPU), Joana Prata (UCIBIO, 1H-TOXRUN, IUCS-CESPU), Rui Azevedo (UCIBIO, 1H-TOXRUN, IUCS-CESPU)

- 10h45** Microplastics and One Health Concepts in Agriculture. | Tony Walker, Dalhousie University, Canada
- 11h15** Natural Lithium Exposure and Suicide Risk in the Overall Population. | Agostinho Almeida, FFUP
- 11h45 Presentation of Selected Oral Communications**
- OC 01** | The Social Support "Staircase": Decoding Neurocognitive Phenotypes in Acute Coronary Syndrome via Explainable Machine Learning. Bruno Peixoto, UCIBIO; 1H-TOXRUN, IUCS-CESPU
- OC 02** | Co-Exposure to Microplastics and Parabens: Implications for *Chlorella vulgaris* Bioremediation Efficiency. Paulo de Sousa, FEUP
- 12h30 Lunch & Poster Viewing**

SESSION II

Pharmaceuticals and Their Environmental Impact

CHAIRS: Félix Carvalho (UCIBIO; FFUP), Cláudia Ribeiro (UCIBIO; 1H-TOXRUN, IUCS-CESPU), Vítor Seabra (UCIBIO; 1H-TOXRUN, IUCS-CESPU)

- 14h00** Education for Sustainability: Integrating Green Toxicology and Environmental Stewardship into Pharmaceutical Training. | Cristina Almeida, FF-UL
- 14h30** Environmental Risk Assessment of Medicinal Products: Beyond the Guidelines. | Bruno Nunes, UA; CESAM
- 15h00** The Paradox of Pharmaceuticals: from Medicine to Pollutant. | Ana Rita Lado, FE-UP; LSRE-LCM, ALiCE
- 15h30 Coffee Break & Poster Viewing**
- 16h30 Presentation of Selected Oral Communications**
- OC 03** | Cattle as Reservoirs of Clinically Relevant Enterococcus: A One Health Genomic Perspective. Inês Ribeiro, IUCS-CESPU
- OC 04** | Optimized Liposomal Delivery of *Actinidia arguta* Antioxidants for Topical Skin Applications. Filipa Teixeira, REQUIMTE/LAQV - ISEP; ICBAS
- OC 05** | Smart Delivery of Polyphenols: Alginate Microencapsulation meets Advanced Skin Models. Mariana Marques, UCIBIO, FFUP
- OC 06** | *In vitro* Toxicometabolomic Evaluation of Hepatic Cell Response to "Forever Chemicals". Filipa Amaro, UCIBIO, FFUP
- OC 07** | Metformin in a Warming World: The Hidden Danger to Freshwater Ecosystems. Ana Marta Cordeiro, ICBAS
- OC 08** | Linking Cancer Therapy to Cardiac Injury: Anthracycline Toxicity in Human Heart Cells. Beatriz Moreira, FFUP
- OC 09** | *In vitro* Neuronal Characterization of the Entheogenic Plant *Tagetes lucida* Cav. Maria Rita Garcia, REQUIMTE/LAQV; FFUP
- 18h30 Closing of the First Day**

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SESSION III

Global Challenges of Intensive Agriculture and Illicit Production

CHAIRS: Bruno Peixoto (UCIBIO, 1H-TOXRUN IUCS-CESPU), Joana Barbosa (UCIBIO, 1H-TOXRUN IUCS-CESPU), Luís Fernandes (UCIBIO, 1H-TOXRUN IUCS-CESPU)

- 09h30** Natural Toxins and Agriculture: Sources, Risks, and the Implications for Human, Animal and Environmental Health. | Vitor Vasconcelos, FC-UP; CIIMAR
- 10h00** Development of Biopesticides for a More Sustainable Agriculture. | Cristina Azevedo, InnovPlantProtect
- 10h30** From Poppy Fields to Party Pills: Clandestine Drug Production in Europe and its Impacts. | Rita Jorge, EUDA
- 11h00** **Coffee Break & Poster Viewing**
- 11h30** **Presentation of Selected Oral Communications**
- OC 10** | Changes in DNA Methylation and Histone H3 Acetylation Induced by Distinct Psychotropic Drugs on Dopaminergic SH-SY5Y Human Neuroblastoma Cells. Ema Rocha, UCIBIO, FFUP
- OC 11** | Chiral Separation of Methylone and Pentedrone and Synthesis of Key Metabolites: Toward a Comprehensive Understanding of Synthetic Cathinone Toxicity. Ana Sofia Almeida, FFUP
- OC 12** | Enantioseparation and Ecotoxicological Studies of a Cathinone in *D. magna*. Ivan Langa, UCIBIO; 1H-TOXRUN, IUCS-CESPU
- OC 13** | Decoding Hidden Toxic Interactions of Paraquat and 2,4-Dichlorophenoxyacetic Acid in *C. elegans*. Rita Azevedo, 1H-TOXRUN, IUCS-CESPU
- OC 14** | A Multiparametric Microbial and Biochemical Model for Predicting Postmortem Interval. Maria João Teixeira, 1H-TOXRUN, IUCS-CESPU
- OC 15** | How Accurate is Artificial Intelligence for Estimating the Legal Majority? Silvina Moura, FMUP
- 13h00** **Lunch & Poster Viewing**

SESSION IV

The Compromise to Implement One Health in Portugal

CHAIRS: Carla Batista Pinto (UCIBIO, 1H-TOXRUN, IUCS-CESPU), Daniel Barbosa (UCIBIO, 1H-TOXRUN, IUCS-CESPU), João Carrola (CITAB, UTAD)

- 14h30** From Prescription to Prevention: the Role of Adequate Nutrition in Reducing Medication Use within a One Health Framework. | Nuno Borges, FCNA-UP
- 15h00** Rehabilitation of Contaminated Eco-Systems as a Sustainable Path for Global Health. | Teresa Tavares, UM; Env2B
- 15h30** Multifaceted Intervention to Improve Antibiotic use in Portugal: a “One Health” Approach - Preliminary Results. | Paula Oliveira, UTAD; CITAB
- 16h00** **ONE HEALTH: A SHARED MISSION ACROSS HEALTH PROFESSIONS**

CHAIRS: Ricardo Jorge Dinis-Oliveira (UCIBIO, 1H-TOXRUN, IUCS-CESPU)

Round Table Discussion with the Presence of:

- Agostinho Antunes Pereira | President of the Northern Regional Council of the Portuguese Biologists' Association (on behalf of President of the Portuguese Biologists Association)
- António Lopes | President of the Portuguese Physiotherapists Association
- Célia Carneiro | Secretary of the Board of General Council of the Portuguese Dental Association (on behalf of President of the Portuguese Dental Association)
- Félix Carvalho | President of the Northern Regional Council of the Portuguese Pharmaceutical Society (on behalf of President of the Portuguese Pharmaceutical Society)
- Gaspar Ferreira | Chair of the Northern Regional Office of the Portuguese Psychologists' Association (on behalf of President of the Portuguese Psychologists Association)
- João Paulo Carvalho | Vice-President of the Board of Directors of the Order of Nurses (representing the President of the Portuguese Order of Nurses)
- Liliana Sousa | President of the Portuguese Order of Nutritionists
- Lúcio Meneses de Almeida | President of the National Council for Health Promotion and Environmental Sustainability of the Portuguese Medical Association (on behalf of President of the Portuguese Medical Association)
- Pedro Fabrica | President of the Portuguese Veterinary Medical Association

Closing Session

- 17h00** **Awards Presentation & Closing Ceremony** | Áurea Carvalho, Inês Caldas, Ricardo Jorge Dinis-Oliveira (UCIBIO, 1H-TOXRUN, IUCS-CESPU), Félix Carvalho (UCIBIO; FF-UP)
- 17h30** **Closing cocktail**