

DAY 1 – JUNE 26TH WEDNESDAY

14.00-15.00 Opening Ceremony: *Teresa Roldán (SEMA president); Isabel Gaivão (organizing committee); Francisco Peixoto (ECVA)*

SESSION 1: GENOMIC INSTABILITY, MUTAGENESIS AND DISEASE

Moderators: **Alba Hernández** (Universitat Autònoma de Barcelona) and **Miguel Ángel Comendador** (Universidad de Oviedo)

15:00-15:45 Keynote Lecture : **Filomena Adegá** (DGB – UTAD -Portugal) "Genomic instability: the players and the rules of a risky game"

15:45-16:00 *Maria Sierra (UNIOVI - ES)* **Genotoxic activities of aqueous extracts from Pteridium aquilinum croziers and young fronds and their relationships with their glycoside illudane metabolites**

16:00-16:15 *Alonso Rodríguez Pescador (UNIOVI- ES)* **In vivo evaluation of ultra-small non-magnetic iron oxide nanoparticles using Drosophila melanogaster: potential applications**

16:15-16:30 *Natasha Miranda (UTAD- PT)* **Impact of high sugar diet on male fertility – study in Drosophila melanogaster as a model**

16:30-16:45 *Suzanna Correia (UTAD- PT)* **Impact of in vitro propagation on genetic stability of two Vaccinium corymbosum varieties**

16:45 - 17:15 - *Coffee break*

SESSION 2 : BIOMARKERS AND BIOLOGICAL MONITORING

Moderators: **Amaya Azqueta** (Universidad de Navarra) and **Natalia Fernández** (Universidade da Coruña)

17:15-18:00 Keynote Lecture: **Carina Ladeira** (Escola Superior de Tecnologia da Saúde, Lisboa, Portugal) "Integration of effect biomarkers in human biomonitoring"

18:00-18:15 *Carlota Lema Arranz (UDC- ES)* **Association of genetic and oxidative stress biomarkers with physical and cognitive frailty in older adults**

18:15-18:30 *Fernanda Li (UC- PT)* **Understanding sperm DNA damage: comparative analysis between donors and males in fertility consultations**

18:30-18:45 *Vanessa Sousa (ULSSA- PT)* **Comet assay reveals a high level of cumulus cells DNA damage in females sharing a phenotype of ovulatory dysfunction**

DAY 2 – JUNE 27TH THURSDAY

SESSION 3 - DNA DAMAGE, REPAIR AND PROTECTION

Moderators: **María Sierra** (Universidad de Oviedo) and **Vanessa Valdiglesias** (Universidade da Coruña)

9:00-9:45 Keynote Lecture: **Henriqueta Louro** (National Institute of Health, Lisbon, Portugal) "Impact of genotoxicity data for tackling chemical safety challenges in regulation and health protection"

9:45-10:00 *Marina Jordano Raya* (UCO- ES) **Influence of the orphan base on AP endonuclease activity in Base Excision Repair**

10:00-10:15 *Ariana Muñoz Fernández* (UCO- ES) **Role of Base Excision Repair in temozolomide-induced DNA damage**

10:15-10:30 *Inés Grávalos Cano* (UCO- ES) **Identification of DNA repair factors involved in resistance of glioblastoma cells to temozolomide**

10:30-10:45 *Elisa Sáenz Martínez* (UNAV- ES) **Can bulky adducts be detected by employing the comet assay along with DNA repair inhibitors?**

10:45-11:00 *Sara Gonçalves* (UTAD- PT) **Unlocking Nature's Shield: Elderberry Hydrosol's Antigenotoxicological and Antioxidant Potential for Sustainable Skincare**

11:00 -11:15 *Patricia Pereira* (UA- PT) **Marine macroalgae dietary supplementation shields the white seabream (*Diplodus sargus*) from the chromosomal damage caused by inorganic Mercury**

11:15-11:45 - *Coffee break*

SESSION 4 - EMERGING POLLUTANTS I

Moderators: **Blanca Laffon** (Universidade da Coruña) and **Eduardo de la Peña** (CSIC)

11:45-12:30 Keynote Lecture: Ana Teresa Reis (National Institute of Health, Porto, Portugal) **What role do nanomaterials play in the evolving world of contaminants of emerging concern?**

12:30-12:45 *Laura Rubio Lorente* (UAB- ES) **Polylactic acid nanoplastics (PLA-NPLs) induce adverse effects on an in vitro model of the human lung epithelium: the Calu-3 air-liquid interface (ALI) barrier**

12:45-13:00 *Assia Touzani* (UDC- ES) **Biocompatibility of platinum nanoparticles: study in neuronal cells and *Drosophila melanogaster***

13:00-14:30 - *Lunch break*

14:30-14:45 *Jéssica Arribas Arranz* (UAB- ES) **Kinetics and toxicity of nanoplastics in ex vivo exposed human whole blood as a model to understand their impact on human health**

14:45-15:00 *Lucia Ramos Pan* (UDC- ES) **Analysis of cell cycle, apoptosis rate and DNA damage in neuronal cells exposed to differently charged gold nanoparticles**

15:00-15:15 *Mohamed Alaraby Abdalaziz* (UAB- ES) **Are bioplastics safe? Hazardous effects of polylactic acid (PLA) nanoplastics in *Drosophila***

15:15-15:30 *Arnau Rocabert* (UAB- ES) **Changes in *Drosophila* microbiome caused by nanoplastics**

15:30-15:45 *Laura Ruano Clemente* (UAB- ES) **Long-term exposure of BEAS-2B bronchial cell line to PET nanoplastics**

SESSION 5 - GENE EXPRESSION AND EPIGENETICS

Moderators: **Teresa Roldán** (Universidad de Córdoba) and **Alba García** (Universitat Autònoma de Barcelona)

16:00-16:45 **Keynote Lecture - Carmen Jerónimo** (Instituto Português de Oncologia -Porto, Portugal) **DNA Methylation: The Rising Potential of Blood-Based Multi-Cancer Early Detection Tests**

16:45-17:00 *Carmen Maria Ayala Roldán* (UCO- ES) **RASSF1A methylation analysis in minimally invasive samples from Lung Cancer patients and individuals with risk factors**

17:00-22:00 *Social Event - Visit to Douro Valley*

SESSION 6 - EMERGING POLLUTANTS II

Moderators: Ricard Marcos (Universitat Autònoma de Barcelona) and Óscar Herrero (Universidad Nacional de Educación a Distancia)

9:15-9:30 *Adriana Rodriguez Garraus* (UNAV- ES) **Plastic particles derived from 3D printed objects, assessment of their cellular transforming potential**

9:30-9:45 *Javier Gutierrez* (UAB- ES) **Carcinogenicity of micro- & nanoplastics long-term exposure**

9:45-10:00 *Michelle Morataya Reyes* (UAB- ES) **Exploring the Carcinogenic Potential of PET Nanoplastics Co-exposure with Cigarette Smoke Condensate: A Long-Term In Vitro Study Using BEAS-2B Cells**

10:00-10:15 *Juan Martin* (UAB- ES) **Hazard assessment of nanoplastics is driven by their surface-functionalization. Effects in human-derived primary endothelial cells**

10:15-10:30 *Aliro Villacorta* (UAB- ES) **Fluorescent labeling of micro/nanoplastics for biological applications with a focus on “true-to-life” tracking**

10:30-10:45 *Volodymyr Trash* (UTAD/UP- PT) **Electrochemical sensor for sucralose and its genotoxic ester. A mathematical description**

10:45 - 11:15 - Coffee break

SESSION 7: SUMMARIZE YOUR PHD THESIS (for phd students or phd's for less than 2 years)

Moderators: Adriana Rodríguez (Universidad de Navarra) and Antonio Guzmán (Alexion Pharmaceuticals, Inc)

11:15-11:25 **PhD thesis summary - Alonso Rodríguez Pescador** (UNIOVI)

11:25-11:35 **PhD thesis summary - Elisa Sáenz Martínez** (UNAV)

10:35-11:45 **PhD thesis summary - Sara Gonçalves** (UTAD)

11:45-12:15 **Assembly of members**

12:15-12:30 **Awards Ceremony**

12:30-12:45 **Closing Ceremony**

