



Programa 9º PhDay Facultad Ciencias Biológicas UCM

Jueves, 9 de octubre en el Salón de actos de la Facultad de Ciencias Biológicas

9:00 - 9:15 Recepción y acreditación

9:15 - 9:30 Inauguración

9:30 - 10:00 Ponencia inaugural

Hic Sunt Dracones, el inventario de la biodiversidad en el siglo XXI

Francisco José Cabezas Fuentes

Profesor del Dpto. de Biodiversidad, Ecología y Evolución
Director del Herbario MACB

Sesión I - Biodiversidad y Conservación

10:00 - 10:10 **Miriam García Torija**

Analysis of the diversity of edaphic fungi and bacteria in rural communities in urban areas

10:10 - 10:20 **Adrián Duro Peinó**

The wolf's diet in Europe: specialist wolves eat less livestock

10:20 - 10:30 **Claudia Lansac Nieto**

Searching for the culprits of drastic declines on a Colombian cloudforest amphibian community

10:30 - 10:40 **Marta García Cobo**

Island-like environments through the lens of meiofaunal diversity: a metabarcoding approach

10:40 - 10:50 **Aida Vega Abellán**

*Assessing Parasite Prevalence and Health Status of the Eurasian Tree Sparrow (*Passer montanus*) in Green Urban Areas of a Southern European City*

10:50 - 11:00 **Sergio Alías Segura**

Metataxonomic analysis reveals that the farming system has minimal effect on soil microbiome variation in cereal fields

11:00 - 11:10 **Tessa Lynn Nester**

*Uncovering the complex interactions between invasive *Gambusia holbrooki* and endangered killifish populations of the Iberian Peninsula using eDNA techniques*

11:10 - 12:00 Coffee break (cafetería de la Facultad)

Sesión II - Ecología y Evolución

12:00 - 12:10 **Judit Sánchez Nogueras**

Physico-chemical indicators of disconnected pools and dry riverbeds for the assessment of the ecological status of non-perennial rivers

12:10 - 12:20 **Mar Casquero Muñoz**

Patterns of growth and maturation in a Meroitic sample from Abri, Northern Sudan

12:20 - 12:30 **Adrián Chinarro Sánchez**

Deciphering the Evolution of the Pallial Fields of Ray-Finned Fishes

12:30 - 12:40 **David Ricote Hernández**

A New Perspective on Type-Token Distinction in the Genotype and Phenotype Concepts

12:40 - 12:50 **Gabriella Lima Tabet Cruz**

Asymmetrical patterns in eco-evolutionary networks of wild mammal immunity and zoonotic bacterial virulence

12:50 - 13:00 **José María Lorente-Sorolla Pons**

Diverse sex determination systems and ancient origins of reproductive genes in Sponges

13:00 - 13:10 **Carlota Gracia Sancha**

*Whole Genome Sequencing reveals population structure of the deep-sea sponge *Phakellia ventilabrum* in the Northeast Atlantic and Mediterranean Sea*

13:10 - 14:10 Comida

Sesión III - Biomedicina

14:15 - 14:25 **Adriana Baca Muñoz**

Modulation of Aging through Fecal Microbiota Transplantation in mice

14:25 - 14:35 **Juan Lombardo Hernández**

Toward an Integrative Understanding of Microbiota-Brain Communication: A Novel In Vitro Model of Neuron-Bacteria Interaction

14:35 - 14:45 **Rut de la Vega Ruiz**

Sex hormones and sex chromosomes shape hippocampal physiology in female mice: implications for spatial learning and memory

14:45 - 14:55 **Gonzalo Aparicio Rodríguez**

Human brain transforms time into space for better memorization, prediction and decision-making

14:55 - 15:05 **María del Mar Rodríguez San Pedro**

Inflammatory impact of TET2 mutations in patients with chronic kidney disease

15:05 - 15:15 **Karolina Tecza**

VIP influences chondrocyte differentiation and regulates cartilage degeneration in osteoarthritis

15:15 - 15:25 **Úrsula Díaz Dios**

Unveiling the invisible maths of neuropathological aging

15:25 - 15:35 Pausa

Sesión IV - Biotecnología y Microbiología

15:35 - 15:45 **Marina Usieto Alberio**

Beyond 60 °C: Validating Thermal Safety Against Anisakis in Traditional Cooking

15:45 - 15:55 **Mirella Llamosi Fornes**

*Cooperation or conflict? Mixed biofilm models of *Streptococcus pneumoniae*-*Aspergillus fumigatus* in pulmonary co-infection*

15:55 - 16:05 **José David Toledo Guerrero**

Effect of short-term high-CO₂ treatments on the quality of highbush and rabbiteye blueberries during cold storage

16:05 - 16:15 **Marta de Vicente Martínez**

*From organic wastes to single cell protein by *Yarrowia lipolytica**

16:15 - 16:25 **Beatriz Pasero García**

Microbial Valorization of Hydrothermal Liquefaction Wastewater

16:25 - 16:35 **Inés Pareja Cerbán**

*Structural and functional studies of the enzymatic VL-1L, the lysozyme of bacteriophage vB_PaeS_VL1 of *Pseudomonas aeruginosa**

16:35 - 16:45 **Luis García Antón**

The origins of scientific food control in Spain



Delegación de Estudiantes de la Facultad de Ciencias Biológicas de la Universidad Complutense de Madrid



16:45 - 17:45 Sesión Póster

Carlos Recio Añón

Genetic predisposition, dietary patterns and physical activity in the expression of obesity: an analysis in the school-age population of Andalusia (Spain)

María González Pascual

Pubertal somatic variation and age at menarche in XXI century Spanish girls

Sara Morán de Bustos

Comparative evaluation of the peripheral immune response in sheep experimentally infected subcutaneously or intranasally with Rift Valley fever virus

Cecilia Estefanía Suárez Arregui

Nutritional ultrasound diagnosis of sarcopenia in older adults in Madrid

Marlon Rafael Charris Rincón

Genetic diversity and ancestry in Colombian populations with a high level of admixture

Adrián García Deltell

*Baermann vs faecal culture: comparison of two methodologies for detecting parasites in the faeces of wild fallow deer (*Dama dama*) in the Sierra de Albarracín, Teruel*

Tamara González Illanes

Unveiling water effects: a comparative analysis in olive, almond and grapevine leaf surfaces grown under dryland or irrigation

Sara Vidal Notari

The Sleeping Beauty Awakening: Cellular Reprogramming upon Injury-Induced Regeneration in the Bladder Urothelium

Alba Méndez Alejandro

Inferring somatic mutations from single-cell transcriptomics in the human esophagus

Alba Cano Bustos

Beyond Telomeres: Unravelling the Function of CTC1 in Arabidopsis Meiosis

Carmen Erena Ortega

Mycobiota diversity in cereal seeds after four decades of storage

Andrea Miguel Batuecas

Optimization of primary mouse hepatocyte cultures for potential cell therapy in factor V deficiency

Carmen Duque Amado

*Environmental DNA as an effective tool for the study and conservation of *Parachondrostoma arrigonis* (Teleostei: Leuciscidae) and for assessing co-occurring species*

Javier Benítez de la Cruz

Engineering a Bioelectrical Interface: ENS Neurons and Bacterial Biofilms on a Microfluidic Chip

Itziar Jericó González

Low-coverage whole-genome sequencing and bioinformatic pipelines to explore genetic variation in Iberian blackcap populations

Paula de la Huerta Bengoechea

Yarrowia lipolytica as a dual platform for sustainable protein and tailored lipid production from carboxylates

Ainhoa Collada Marugán

Transient exposure to hyaluronic acid restores the structure and performance of pulmonary surfactant membrane complexes

Santiago Roque de Miguel Sanz

*Investigation of PHA synthesis in the heterologous producer *Escherichia coli* W*

Alba Macho Callejo

Root marks as diagnostic indicators in archaeological and forensic taphonomy

Natalia Elena Expósito de la Paz

*Histone H4 acetylation as a molecular switch for somatic embryogenesis in *Quercus suber**

Cristian Pertegal Pérez

*Hidden diversity in plain sight: four new *Nemesia* (Audouin, 1826) species from the Córdoba region (Araneae: Mygalomorphae)*

Tomás Torres Medina

*The fossil hand of the *Homo* sp. from the Ruidera Middle Pleistocene site (Ciudad Real, Spain)*

Ishtiak Malique Chowdhury

An efficient process strategy to co-produce microbial oil and carotenoids utilizing biowaste-derived sugar rich media

Marta Trujillo de la Cruz

Comparison of qPCR and LAMP for the detection of lupin in food matrices

Arturo Rodríguez Pascual

Changes in functional structure affect community stability: insights from a removal experiment

17:45 - 18:00 Entrega de premios



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