



PROGRAMA DE LA JORNADA

08:45 – 09:00 **Recepción y entrega de documentación**

Vestíbulo del Salón de actos

09:00 – 09:15 **Inauguración**

Decanato y Comisión de Doctorado

09:15 – 09:45 **Ponencia inaugural**

Mirian Domenech Lucas · Científica titular - Centro Nacional de Microbiología (ISCIII)

09:45 – 09:55 ***Sponsor Talk*: Transmitting Science****Sesión I – Biotecnología y Microbiología****09:55 – 10:05** **Sara Morán de Bustos**

Comparative study of disease dynamics and immune response in sheep inoculated with the Rift Valley Fever Virus via subcutaneous and intranasal routes

10:05 – 10:15 **Carmen Erena Ortega**The Hidden reservoir: mycotoxins and *Fusarium* diversity in spanish cereal field soils**10:15 – 10:25** **Javier Benítez de la Cruz**Neuroactive bioelectrical effects of probiotic *Lactiplantibacillus plantarum* on enteric neurons**10:25 – 10:35** **Claudia Trenado Lorenzo**

Optimization and field validation of an environmental air-sampling system for the early surveillance of avian respiratory viruses

10:35 – 10:45 **Ishtiak Malique Chowdhury**Effective bioprocessing of textile waste for simultaneous production of microbial oil and carotenoids by *Rhodospiridium toruloides***10:45 – 10:55** **Patricia De Obesso Cintas**Molecular studies on the autolytic process in *Streptococcus pneumoniae*.**10:55 – 11:45** ***Coffee break*****Sesión II – Ecología y Evolución****11:45 – 11:55** **Lucía Cano de Arriba**

Shifting plant-herbivore-parasitoid interactions along an Atlantic-continent gradient of increasing drought in oak woodlands

11:55 – 12:05 **Eva María Pérez Lajarín**Toxicological and behavioural responses of *Bombus terrestris* (L., 1758) (Hymenoptera: Apidae) to different insecticide exposure pathways**12:05 – 12:15** **Sergio Aguado Vicens**Molecular Basis, Mutational Diversity, and Evolutionary History of β -Thalassemia in Southwestern Spanish Populations and Its Association with Clinical Parameters**12:15 – 12:25** **Beatriz Jiménez Prieto**

Thermal acclimation of soil microbial respiration in croplands

12:25 – 12:35 **Noemí Aedo Noa**

Mathematical modeling and explainable artificial intelligence (XAI) algorithms for adult age estimation in forensic anthropology

12:35 – 12:45 **Julene Gómez Vicioso**

Exploring the quantitative genetics of senescence in a wild bird population

12:45 – 13:00 **Pausa****Sesión III – Biodiversidad y Conservación****13:00 – 13:10** **Elena Ramos Elvira**Individual selection of plastic debris in Eurasian Tree Sparrow (*Passer montanus*) nests**13:10 – 13:20** **Álvaro Carrasco Coquillat**

Insights into the nuclear pore complex and its dynamics during plant meiosis

13:20 – 13:30 **Claudia Aguilar Valero**Functional characterization of U6 snRNAs in *Arabidopsis* responses to low temperature and salt stress**13:30 – 13:40** **Verónica Estaca Gómez**

Taphonomic processes affecting human remains from late prehistoric sites in the Iberian peninsula

13:40 – 13:50 **Ángel García Bodelón**

Predators in the dark: metabarcoding reveals Argentinian communities associated with bat guano, endemic to dinaric karst in Croatia

13:50 – 14:00 **Alba Macho Callejo**

Root-Bone Interaction As A Source Of Information About The Burial Environment

14:00 – 15:00 **Comida****Sesión IV – Biomedicina****15:00 – 15:10** **Camila Quezada Gutierrez**

Chimeroids: a self-organizing developmental platform to study tumor cell plasticity

15:10 – 15:20 **Paula Arribas Castaño**

VIP axis in human mesenchymal stem cells: role in immunomodulation

15:20 – 15:30 **Ignacio Moratilla Rivera**

Multiomic integration reveals coordinated microbiota-metabolic-host response induced by hydroxytyrosol supplementation in individuals with overweight and prediabetes

15:30 – 15:40 **Sofía Balsinde Balboa**Cannabinoid CB₂ receptor is differentially expressed in murine Natural Killer cell populations and modulates antitumoral effector function**15:40 – 16:30** **Sesión V – Flash Talks de Pósters**

Pedro Romano Martín

Functional validation of transposable elements of *Pseudomonas putida* as “Bridge Editing” tools in eukaryotic cells

Marcos Uceta García

Pathological markers in murine models of Alzheimer’s disease after heavy adolescent alcohol consumption

María del Mar Rodríguez San Pedro

Obesity-associated SNPs, cardiovascular disease, and inflammatory modulation in chronic kidney disease

Karolina Tecza

Genetic Polymorphisms as Candidate Biomarkers for Osteoarthritis Severity

Guillermo González Salso

Empowering the immune system by targeted nanoparticle-based precision delivery of immunoregulatory microRNAs to lymphocytes

Sergio Alias Segura

Species-level *Fusarium* resolution in cereals: a TEF1 metataxonomic approach

Mirella Llamosí Fornés

Antimicrobial resistance and serotypes of *Streptococcus pneumoniae* in the post-covid-19 era (2019-2024): what role do the new PCV20 and PCV21 vaccines play?

Elsa García González

Evolution of Invasive Pneumococcal Disease in the adult population in Spain (2009-2025): Potential Vaccine Coverage and impact of Pneumococcal Conjugate Vaccines

Santiago Roque de Miguel Sanz

A circular cell-free system for ATP-Independent PHAbiosynthesis

Inés Pareja Cerbán

Caracterización estructural, enzimática y antimicrobiana de la endolisina fágica VL-1L del bacteriófago vB_PaeS_VL1 de *Pseudomonas aeruginosa*

Elisa Rodríguez Castro

Anaerobic approaches to cheese whey valorization: assessing the need for micronutrient supplementation

Paula de la Huerta Bengoechea

Agitation-driven modulation of fatty acid profiles during sustainable protein and lipid co-production by *Yarrowia lipolytica*

Miriam García Torija

Does ruderal vegetation explain how urban ecosystems function?

Adrián Chinarro Sánchez

Deciphering the origins of the vertebrate pallium

Alberto Piris Martín

Species distribution modelling of Iberian earthworms

Elena Gómez Ruiz

Biomechanics of Neanderthals

Alberto Montes Mellado

Sex shapes the hippocampal phenotype of shank3 mice

Paula Ortiz Blanco

How can eDNA and sedaDNA better capture wetland vertebrate biodiversity? A multimarket and multisampling approach in Castilla-La Mancha

17:30 – 17:45 Cierre y Entrega de Premios

Se concederá un premio a la mejor comunicación oral de cada sesión y dos premios a los mejores pósters

Con el apoyo de:



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



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