



21 JUNIO

08:30-13:30 **Registro y colocación de carteles**

09:30-11:15 **Sesión Satélite I: Genética y alimentación**

Moderador: Daniel Ramón (ADM Biopolis)

Ponentes invitados

Diego Orzáez (Instituto de Biología Molecular y Celular de Plantas, CSIC)

Ana Ramírez de Molina (Instituto IMDEA Alimentación)

José Manuel Guillamón (Instituto de Agroquímica y Tecnología de Alimentos, CSIC)

Empar Chenoll (ADM Biopolis)

11:15-11:45 **Pausa café**

11:45-13:30 **Sesión Satélite II: Escuela de Divulgadores de la Genética**

Moderador: Lluís Montoliu (Centro Nacional de Biotecnología, CSIC)

Ponentes invitados

Cristina Nieto (Centro de Recursos Fitogenéticos, INIA-CSIC)

Guillermo Peris (Universidad Jaume I)

Tomàs Marquès Bonet (Instituto de Biología Evolutiva, CSIC-Universidad Pompeu Fabra)

Helena González Burón (Big Van Science)

13:30-15:00 **Comida**

15:00-15:15 **Apertura del congreso**

15:15-16:45 **Sesión 1: Dinámica de cromosomas**

Moderadora: Mónica González Sánchez (Universidad Complutense de Madrid)

Ponencia invitada: Aurora Ruiz Herrera (Universidad Autónoma de Barcelona)

Comunicaciones orales

Mónica Pradillo Orellana: *The dynamic nature of the nuclear envelope is related to chromosomal behaviour during plant meiosis.*

Ismael Cross Pacheco: *Divergence and genomic evolution of repetitive elements in the sole *Solea senegalensis*.*

Ángela Patricia Vergara García: *ALK gene rearrangements and expression in a cohort of patients diagnosed with lung adenocarcinoma candidates for targeted therapy with inhibitors.*

M^a Ángeles Fernández Mimbrena: *Analyses of epigenetic signalling upon G2 decatenation checkpoint response in human cells.*

16:45-17:15 **Pausa café + carteles**

17:15-19:00 **Sesión 2: Expresión génica y epigenética:**

Moderadora: M^a Teresa Roldán Arjona (Universidad de Córdoba)

Ponencia invitada: Ozren Bogdanovic (Centro Andaluz de Biología del Desarrollo, CSIC)

Comunicaciones orales

José Luis Micol Molina: *Cytokinins in simple leaf margin morphogenesis.*

Lluís Montoliu José: *New CRISPR genome-edited mouse models to investigate albinism.*

Eva Bastida Martínez: *Unraveling the peroxide stress response in Myxococcus xanthus and its regulation by a novel mechanism.*

Celeste Moya Valera: *Unveiling Type II Diabetes Epigenetics: Pre-Onset Exomic DNA Methylation Analysis.*

Flash talks

Eduardo Larriba Tornel: *Functional analysis of the genes of the LYSINE SPECIFIC HISTONE DEMETHYLASE 1 (LSD1) family of Arabidopsis thaliana.*

Rosa Micol-Ponce: *Unraveling the role of the CAX-INTERACTING PROTEIN 4 (CXIP4) gene in Arabidopsis RNA metabolism.*

Pedro Perdiguero Jiménez: *Application of single cell transcriptomics to explore the rainbow trout (Oncorhynchus mykiss) immune system.*

André Vidal Capón: *Epigenetic mechanisms in bivalve tumorigenesis: a comparison of healthy and neoplastic cockles, Cerastoderma edule.*

Beatriz Suárez Quintero: *RNAPII-facilitated repair of ribosomal DNA breaks in nucleolar caps guards against genomic instability.*

Daniel Ramírez Torres: *Methylation and transcriptomic analysis in flatfish Solea senegalensis gonadal tissue.*

19:45-20:30

Conferencia inaugural (Jardín Botánico):

Montserrat Elías Arnanz (Universidad de Murcia)

20:30

Recepción de bienvenida (Jardín Botánico)

9:00-10:45

Sesión 3: Genética de microorganismos

Moderador: **Antonio di Pietro** (Universidad de Córdoba)

Ponencia invitada: **Álvaro San Millán** (Centro Nacional de Biotecnología, CSIC)

Comunicaciones orales

Agustín Blasco: *Metagenomic data are compositional. The problem and its solution.*

Marta Fontes Bastos: *New extracytoplasmic function (ECF) sigma/anti-sigma pairs involved in the complex Myxococcus xanthus response to copper.*

S. Padmanabhan: *Regulated expression of a CRISPR-Cas defense island and its role against attack by myxophages.*

Susana Ruiz Ruiz: *Changes in the microbiota across life in a healthy Mediterranean cohort.*

Flash talks

Vicente Arnau Llombart: *Calculating genomic signature distances between phages and their bacterial host for distinguishing lytic and lysogenic phages.*

Rosario Gil García: *Molecular characterization of Wolbachia wMel in native populations of Drosophila for its application in biocontrol of the tiger mosquito in Valencia.*

Alba Gómez Gil: *Maternal microbial vertical transfer, before or after birth?*

Enrique Roig Tormo: *Exploring the Common Human Gut Eukaryotic Microbiota around the World.*

Alfonso López Rojo: *Genomic analysis of lytic myxophages and identification of Myxococcus xanthus genes conferring resistance.*

Irene del Rey Navalón: *Role of methionine sulfoxide reductases in the Myxococcus xanthus light response.*

10:45-11:45

Pausa café + carteles

11:45-13:30

Sesión 4: Mejora genética y biotecnología

Moderador: **Rafael Lozano** (Universidad de Almería)

Ponencia invitada: **Belén Picó** (Universidad Politécnica de Valencia)

Comunicaciones orales

Clara Pons: *Trait stability and its genetic basis in European Traditional Tomato.*

Andrea Arrones Olmo: *Identification of SmAPRR2 and SmGLK2 genes as responsible for uniform chlorophyll distribution and netting in the eggplant fruit peel.*

María Salud Justamante Clemente: *Genomic landscape of wound-induced adventitious root formation in tomato.*

Alejandro Centeno Cuadros: *Towards a genetic-based toolkit for outdoor sex identification in aquaculture: an application in Solea senegalensis.*

Flash talks

Elena Benavente: *Relationship between gene sequence-based markers for glutamine synthetase loci and yield components in wheat.*

Marta Gavilán Camacho: *Role of Transcription Factors involved in the synthesis of wheat prolamins.*

María José Gonzalo Pascual: *Validation of heat tolerance QTLs in elite lines and pyramiding of QTLs related to abiotic stresses in tomato.*

Carlos Polanco de la Puente: *Using lentil wild relatives to identify genes related to Ascochyta blight resistance.*

Santiago García Martínez: *Start of a breeding program to introduce virus resistances in Flor de Baladre and Pimiento tomatoes (Solanum lycopersicum L.).*

Ilaria Macri: *Genetic analysis of Arabidopsis growth effect in bioreactors.*

13:30-15:00

Comida + carteles

15:00-16:45

Sesión 5: Genética de Poblaciones y Evolución

Moderador: **Miguel Burgos** (Universidad de Granada)

Ponencia invitada: **Fernando González Candelas** (Universidad de Valencia)

Comunicaciones orales

Beatriz Sabater Munoz: *Distinct transcriptional responses to acute and chronic oxidative stress in *Saccharomyces cerevisiae*.*

Vadim Pisarenco: *Understanding the genomic basis of adaptation: Lessons from the island radiation of the spider genus *Dysdera*.*

Cristian Cuevas Caballé: *Conservation genomics of the Balearic shearwater (*Puffinus mauretanicus*).*

Aureliano Bombarely: *Genetic Insights of Pawpaw (*Asimina triloba* [L.] Dunal), the North American Forgotten Fruit.*

Flash talks

José Luis Horreo: *Genetic diversity, structure, and dynamics of the European polecat (*Mustela putorius*) in the Iberian Peninsula.*

Alejandro Hernández Delgado: *DNA-based species delimitation analyses reveal extensive lineage diversity in *Haploglymus*, a groundwater amphipod genus endemic to the Iberian Peninsula.*

José Antonio Jurado Rivera: *Mitophylogenomics support the placement of the enigmatic crustacean order *Thermosbaenacea* within the *peracarida*.*

Pablo Presa Martínez: *Temporal incongruence between demographic and genetic metrics in fisheries assessment: the European hake case study.*

Rebeca Domínguez Santos: *Evolution and recovery of the gut microbiota during and after rifampicin treatment in *Blattella germanica*.*

David Saiz Martínez: *The role of extracellular vesicles in host-symbiont communication mediated by sRNA in *Blattella germanica*.*

16:45-17:30

Pausa café + carteles

17:30-18:45

Asamblea de la SEG

21:00

Cena del congreso ([Hotel Balneario Las Arenas](#))

9:00-10:45

Sesión 6: Genética humana

Moderador: **Gemma Marfany** (Universidad de Barcelona)

Ponencia invitada: **Tomàs Marquès Bonet** (Instituto de Biología Evolutiva, CSIC-Universidad Pompeu Fabra)

Comunicaciones orales

Vasileios Toulis: *Knocking-out USP48 in human iPSCs using CRISPR/Cas9 to generate 3D retinal organoids as a retinal disease model.*

Jesús J. Ferre Fernández: *Overexpression of Myocilin in Transgenic Adult Zebrafish Results in Retinal Alterations and Variable Ocular Anterior Segment Defects Associated with Extracellular Matrix Abnormalities.*

Gema Garrido Martínez: *Update of the genetic diagnosis of albinism in Spain.*

Ismael Ejarque Doménech: *Referral criteria to clinical genetics from Primary Care: Consensus document.*

Flash talks

José Martín Nieto: *Locating the α -dystroglycan O-mannosylglycosylation pathway in mouse retinal cells.*

José Daniel Aroca Aguilar: *Generation and functional analysis of a zebrafish knockout line for the congenital glaucoma gene CYP1B1.*

Ángel Tévar Saiz: *Functional interaction between zebrafish adamtsl4 and cpamd8 matrix metalloproteinase-related genes and its implication in early-onset glaucoma.*

María Elena Quiroz Rodríguez: *Genetic interaction between liver enzyme levels and the risk of developing diabetes mellitus 2 (T2D) over time in a Spanish population.*

Mónica Centeno Pla: *Truncated MAGEL2 and its novel subcellular localisation in Schaaf-Yang syndrome.*

David López López: *Circulating cell free DNA (ccfDNA) as a biomarker of biological age in humans.*

10:45-11:45

Pausa café + carteles

11:45-12:45

Sesión 7: Docencia de la Genética

Moderadora: **Rosario Linacero**

Comunicación oral

Marcos Egea-Cortines: *The phylogenetic map of genetics teaching in Spanish Universities.*

Mesa Redonda:

Marcos Egea-Cortines (Universidad Politécnica de Cartagena)

Ana Fita (Universitat Politècnica de València)

Rosario Linacero (Universidad Complutense de Madrid)

J. Alberto Marchal (Universidad de Jaén)

12:45-13:30

Conferencia de clausura

José Alonso (North Carolina State University)

13:30-14:00

Premios, próximo congreso, clausura

14:00-15:30

Comida

Patrocinado por:



XLIII Congreso de la
Sociedad Española de Genética

