



Institut
d'Estudis
Catalans



Societat Catalana
de **BIOLOGIA**

XXIV Jornada de Biologia Evolutiva 2025

XXIV Evolutionary Biology Meeting 2025

Organització: Secció de Biologia Evolutiva de la SCB

Institut d'Estudis Catalans, Sala Prat de la
Riba

Carrer del Carme 47, Barcelona

27 de juny de 2025

Coordinadora de la Secció:

Aurora Ruiz-Herrera

Coordinadors de la Jornada:

Laura Botigué, Sebastià Ramos-Onsins

Comitè científic del Premi Prevosti:

Cristian Cañestro, Sònia Garcia, Oriol Lapiedra, Macarena Toll-Riera

Patrocinadors:



Resum del programa / Programme overview

9:00 h REGISTRE / REGISTRATION

9:25 - 9:30h BENVINGUDA / WELCOME Aurora Ruiz-Herrera, Laura Botigué, Sebastià Ramos-Onsins

9:30 - 11:00h SESSIÓ I / SESSION I (*Moderator: Marta Riutort*)

COMUNICACIONS ORALS / ORAL COMMUNICATIONS

11:00 - 11:30h PAUSA-CAFÈ / COFFEE BREAK

11:30 - 12:30 h CONFERÈNCIA CONVIDADA / KEYNOTE TALK

Jérôme Salse (*INRAE Centre Clermont Auvergne-Rhône-Alpes*) –
Paleogenomics to understand plant evolution and adaptation

12:30 - 13:30h SESSIÓ II / SESSION II (*Moderator: Elena Bosch*)

COMUNICACIONS ORALS / ORAL COMMUNICATIONS

13:30 - 15:00h DINAR / LUNCH

15:00 - 16:00 h SESSIÓ III / SESSION III (*Moderator: Bernat Burriel*)

COMUNICACIONS ORALS / ORAL COMMUNICATIONS

16:00 - 16:30h PAUSA-CAFÈ / COFFEE BREAK

16:30 - 17:45h SESSIÓ IV / SESSION IV (*Moderator: Laura Botigué/Sebastià Ramos-Onsins*)

COMUNICACIONS ORALS / ORAL COMMUNICATIONS

17:45 - 18:00h REUNIÓ COMITÈ PREMI PREVOSTI / PREVOSTI PRIZE COMMITTEE MEETING

18:00h ANUNCI DEL GUANYADOR/A DEL PREMI PREVOSTI & CLOENDA / ANNOUNCEMENT OF THE PREVOSTI PRIZE WINNER & END OF THE MEETING

Programa detallat / Detailed programme

9:00 h **REGISTRE / REGISTRATION**

9:25 - 9:30h **BENVINGUDA / WELCOME** Aurora Ruiz-Herrera, Laura Botigué, Sebastià Ramos-Onsins

9:30 - 11:00h **SESSIÓ I / SESSION I** (*Moderator: Marta Riutort*)

COMUNICACIONS ORALS / ORAL COMMUNICATIONS

Diego Montiel (*Institut de Biologia Evolutiva CSIC-UPF, Universitat Oberta de Catalunya UOC*) – Bioinformatic analysis on the evolution of gene families key to animal multicellularity

Anastasia Sukhorukova (*Barcelona Supercomputing Centre BSC-CNS, Institute for Research in Biomedicine IRB*) – Population genomics of the common vole (*Microtus arvalis*), a major plant pest and disease vector with rapidly fluctuating populations, reveals all-female litters

Laura González-Rodelas (*Universitat Autònoma de Barcelona UAB, Institut de Biotecnologia i Biomedicina IBB*) – Recombination plasticity in response to temperature variation in reptiles

Shumin Zheng (*Institut de Ciències del Mar ICM-CSIC, Universitat de Barcelona UB*) – Tissue-specific expression patterns of immune- and epigenetic-related genes in male european seabass (*Dicentrarchus labrax*) post-bacterial infection

Montserrat Coll Lladó (*European Molecular Biology Laboratory EMBL*) – A notochord-like structure in a cnidarian

Rocío Mozo (*Institut de Biologia Evolutiva CSIC-UPF*) – Comparative genomics of coral photosymbionts and their free-living relatives

11:00 - 11:30h **PAUSA-CAFÈ / COFFEE BREAK**

11:30 - 12:30 h **CONFERÈNCIA CONVIDADA / KEYNOTE TALK**

Jérôme Salse (*INRAE Centre Clermont Auvergne-Rhône-Alpes*) – Paleogenomics to understand plant evolution and adaptation

12:30 - 13:30h SESSIÓ II / SESSION II (Modera: Elena Bosch)

COMUNICACIONS ORALS / ORAL COMMUNICATIONS

Konstantinos Gidiotis (*Centre of Research in Agricultural Genomics, CRAG CSIC-IRTA-UAB-UB*) – Unraveling the free-threshing trait in wheat: Characterization and Evolution

Saioa Manzano-Morales (*Barcelona Supercomputing Centre BSC-CNS, Institute for Research in Biomedicine IRB*)– Pervasive horizontal transfer and extensive gene duplication shape Asgard archaeal genomes

Gala Pujol (*Universitat Autònoma de Barcelona UAB, Institut de Biotecnologia i Biomedicina IBB*)– Reproductive plasticity in response to short-term polystyrene nanoplastic exposure in aquatic ecosystems

Max Ticó Miñarro (*Universitat de Barcelona UB*) – Tracing the vertebrate selenoproteome reveals expansions in ray-finned fishes and convergent depletions in tetrapods

13:30 - 15:00h DINAR / LUNCH

15:00 - 16:00 h SESSIÓ III / SESSION III (Modera: Bernat Burriel)

COMUNICACIONS ORALS / ORAL COMMUNICATIONS

Laia Marín-Gual (*Universitat Autònoma de Barcelona UAB, Institut de Biotecnologia i Biomedicina IBB*) – New insights into chromatin organization in the germ line of vertebrates

Moisès Bernabeu (*Barcelona Supercomputing Centre BSC-CNS, Institute for Research in Biomedicine IRB*) – The reconstruction of the last eukaryotic common ancestor gene ancestries reveal diverse interactions during eukaryogenesis

Diego Vargas-Donayre (*Centre of Research in Agricultural Genomics, CRAG CSIC-IRTA-UAB-UB, Universitat Autònoma de Barcelona UAB*) – Exploring pig domestication from a transcriptomic perspective

Flavio Palmieri (*Universitat de Barcelona UB*) – Transgenerational effects of early nutritional environment on metabolism in mice: potential role of germline small RNAs

16:00 - 16:30h PAUSA-CAFÈ / COFFEE BREAK

16:30 - 17:45h SESSIÓ IV / SESSION IV (*Moderator: Laura Botigué/Sebastià Ramos-Onsins*)

COMUNICACIONS ORALS / ORAL COMMUNICATIONS

Alba Mas i Puig (*Institute of Evolutionary Biology UPF-CSIC*) – Refining the genome annotation of *Abeoforma whisleri*: Improving gene prediction for downstream comparative analysis

Miquel Àngel Schikora-Tamarit (*Barcelona Supercomputing Centre BSC-CNS, Institute for Research in Biomedicine IRB*) – Machine learning classifiers reveal the evolutionary drivers of virulence and drug resistance in the fungal pathogen *Candida parapsilosis*

Vicente Chillida (*Universitat de Barcelona UB*) – Gene and transposable element deregulation in testes of sterile *Drosophila* hybrids

Matteo Agazzi (*Institute of Evolutionary Biology UPF-CSIC*) – Advancing Coral genomics: Tools and methods for reference genome generation

Agda Maria Bernegossi (*Universitat Autònoma de Barcelona UAB, Institut de Biotecnologia i Biomedicina IBB, School of Agricultural and Veterinarian Sciences, São Paulo State University UNESP*) – Divergent meiotic dynamics across marsupials with different sex chromosome systems

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