



Institut
d'Estudis
Catalans



Societat Catalana
de **BIOLOGIA**

XXI JORNADA DE BIOLOGIA EVOLUTIVA

29th June 2022, (from 9am to 18.00pm)

- 9-9.20h Registration
- 9.20-9.30 Welcome
- 9.30-10.20 **Keynote talk.** SYLVIE RETAUX (Institute of Neurosciences, Paris-Saclay University)
The eye of the cavefish
- 10.20-10.35 EWAN HARNEY (Institut de Biologia Evolutiva (CSIC - UPF))
Transmission of epigenetic effects across multiple generations in the water flea *Daphnia pulex*.
- 10.35-10.50 TÒT SENAR SERRA (Dept Genetics, Microbiology & Statistics and IRBio, UB)
Four eyes see more than two. understanding the visual system of mayflies
- 10.50-11.05 CARLES GALIÀ-CAMPS (Dept Genetics, Microbiology & Statistics and IRBio, UB)
The pangenome of the tunicate *Styela plicata*. Revealing structural rearrangements and local adaptation of an invasive non-model species
- 11.05-11.20 ALEJANDRA BODELÓN DE FRUTOS (Universitat Autònoma de Barcelona)
Impact of heat stress on the *Drosophila subobscura* transcriptome
- 11.20-11.45 **COFFEE BREAK**
- 11.45-12.00 DAVID CASTELLANO (University of Arizona)
Divergent promoters are mutation hotspots in humans
- 12.00-12.15 RUTH GÓMEZ-GRACIANI (Universitat Autònoma de Barcelona)
The role of recombination in the origin and evolution of human inversions.
- 12.30-12.45 LUCÍA ÁLVAREZ-GONZÁLEZ (Universitat Autònoma de Barcelona)
Principles of 3D chromosome folding and evolutionary genome reshuffling in mammals
- 12.45-13.00 MOISÈS BERNABEU (BSC-IRB)
Relatively dating evolutionary events using gene phylogenies

- 13.00-13.15** MICHAL ZAWISZA ALVAREZ (Dept Genetics, Microbiology & Statistics and IBUB, UB)
A machine learning approach to RNA-editing
- 13.15-14.45** **LUNCH BREAK**
- 14.45-15.15** Invited talk. TÁBITA HUNEMEIER (Institut de Biologia Evolutiva (CSIC - UPF))
Genomic Insights into the Native American Evolutionary History
- 15.15-15.30** DANIEL R. CUESTA-AGUIRRE (Universitat Autònoma de Barcelona)
Molecular damage in ancient mitochondrial DNA. variation between climate regions
- 15.30-15.45** BARBARA SINIGAGLIA (Institut de Biologia Evolutiva (Universitat Pompeu Fabra- CSIC)
Exploring adaptive phenotypes for the R990G calcium-sensing receptor polymorphism
- 15.45-16.00** AINA COLOMER I VILAPLANA (Universitat Autònoma de Barcelona)
Title. Worldwide distribution and dating of signatures of recent adaptation in our genomes
- 16.00-16.15** MARTA BASSITTA SÁNCHEZ (Dept Genetics, Microbiology & Statistics and IRBio, UB)
Genomic insights into selective mortality in sharpsnout seabream populations. unveiling adaptive variation across space and time
- 16.15-16.30** **BREAK**
- 16.30-16.45** GUIFRÉ TORRUELLA (BSC & IRB)
Euk-2-Us. Linking the origin of eukaryotes to the diversification of animals and fungi with genomics of flagellates
- 16.45-17.00** PATRICIA SUÁREZ ARA (Institut de Biologia Evolutiva (UPF- CSIC)
CRISPR-Cas9 genome editing situates Corallochytrium limacisporum as a key taxa to address animal origins
- 17.00-17.15h** SEBASTIÁN R. NAJLE (CRG)
Placozoans as models to study cell-type evolution
- 17.15-17.30** PAULA ESCUER (Dept Genetics, Microbiology & Statistics and IRBio, UB)
Population genomics of adaptive radiations. the first analysis of whole-genome resequencing data from a spider endemic of the Canary Islands
- 17.30-17.45** PATRICIA ASTRID LUNA-ORTIZ (Dept Genetics, Microbiology & Statistics and IRBio, UB)
Genomics of the marine turtles colonisation in a warming world
- 17.45-18.00** **BREAK-Prevosti committee meeting**
- 18.00** **Announcement of the Prevosti Prize winner. End of the meeting**

Premi Prevosti Committee

Marta Pascual (UB) / Gerard Talavera (Institut Botanic-CSIC) / Manuel Irimia (CRG) / Elena Bosch (IBE-UPF) / Mauro Santos (UAB)

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