



Institut
d'Estudis
Catalans



Societat Catalana
de **BIOLOGIA**

XXXIV JORNADA DE BIOLOGIA DEL DESENVOLUPAMENT DevBioCat Synergy meeting 2023

Friday February 10th 2023

- 9:00 Registration
- 9:25 Welcome by the Coordinator of the Section of Developmental Biology
- 9:30-10:15 **Miguel Manzanares** (CBMSO-CSIC/UAM)
Establishing genome structure and function in the early mouse embryo
- 10:15-10:30 Silvia Manrique
Epigenetic control of reproductive tract formation in the pistil of *Arabidopsis thaliana*
- 10:30-10:45 Gabriele Zaffagnini
Proteostasis in mammalian oocytes by an endolysosomal super-organelle
- 10:45-11:00 Albert Parra
Metabolic classification of mammalian embryos and oocytes based on label-free hyperspectral imaging and machine learning
- 11:00-11:30 Coffee Break
- 11:30-11:45 Mercedes Barrero
IFN γ pathway activation modulates pluripotency acquisition and X-chromosome reactivation during reprogramming
- 11:45-12:30 **Jenny Nichols** (University of Edinburgh)
Role of STAT3 signalling in self-renewal, developmental pace and human disease
- 12:30-13:15 **Round table**
Jenny Nichols (University of Edinburgh)
Susanne Van Den Brink (IMIM)
Jordi Casanova (IBMB-CSIC/IRB-Barcelona)
Javier Suarez (University of Oviedo)
How far are we from synthetic humans? A multidisciplinary dissection of stem cell-based models of embryonic development: blastoids, gastruloids, synthetic embryos and more...
- 13:15-14:00 Lunch
- 14:00-14:45 Poster session odd numbers
- 14:45-15:30 **Florenci Serras** (UB-IBUB)
The onset of regeneration: ROS, kinases and nutrients
- 15:30-15:45 Carlos Camilleri
Long non-coding rna *cr40469* is essential for *Drosophila* regeneration

- 15:45-16:00 Ilias Moraitis
Macrophages crosstalk with intestinal stem cells to regulate regeneration upon irradiation
- 16:00-16:15 Cristina Gonzalez
How to rejuvenate stem cells: the role of autophagy during starvation in regenerative processes
- 16:15-16:45 Break
- 16:45 -17:00 Cristina Vila
Indirect pathway lineage-specific alterations from early development in huntington's disease ZQ175 embryos
- 17:00 -17:15 Nerea Montedeoca
SALL1a is a transcription factor required for hair cell maturation in zebrafish
- 17:15 -17:30 Joan Casamitjana
Comprehensive characterisation of pancreatic ductal heterogeneity to identify multipotent progenitors
- 17:30 -17:45 Maria Rosselló
Understanding evolutionary innovations: a single cell analysis of the mayfly turbanate eye
- 17:45 -18:30 Poster session even numbers
- 18:30 -18:45 Concluding remarks and awards

Organizing Committee

Marta Llimargas (IBMB-CSIC)
Bárbara Pernaute (CRG/CABD-CSIC)
Ester Hoijman (UB-IDIBELL)
Manuel Irimia (CRG)
Marta Morey (UB-IBUB)

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