

RegenBell 2025 Symposium on Stem Cells and Regenerative Medicine

DAY 1 (9:00 – 20:00)

9:00 9:30 Registration
9:30 9:40 Welcome: Gabriel Capellá
General Director, IDIBELL

SESSION I: Going back to the embryo

Chair: Anna Veiga, IDIBELL / P-CMR[C]

9:45 10:15 Sophie Petropoulos
Karolinska Institute, Stockholm / Université de Montréal
Single Cell Genomics and Human Embryo Modeling

10:15 10:45 Nicolas Rivron
Austrian Academy of Sciences IMBA, Vienna
Blastoids: Modeling human early pregnancy with stem cells

10:45 11:05 Selected short talks

André Dias
Universitat Pompeu Fabra, Barcelona
Opposing Nodal and Wnt signalling activities govern the emergence of the mammalian body plan

Carlos Pérez-González
IDIBELL / P-CMR[C]
Self-organization of phenotypic heterogeneity and plasticity in colorectal cancer

11:05 11:50 Coffee break

SESSION II: Healing from within: Vertebrate organ regeneration

Chair: Angel Raya, ICREA / IDIBELL / P-CMR[C] / UB

11:50 12:20 Tatiana Sandoval-Guzman
Technische Universität Dresden
Differential growth regulation along the proximo-distal axis of the axolotl limb

12:20 12:50 Gilbert Weidinger
Universität Ulm
Regeneration in the face of DNA stress

12:50 13:10 **Selected short talks**

Olalla Iglesias-García

CIMA/ Universidad de Navarra

Biologically-inspired melt electrowriting for the generation of highly biomimetic functional myocardium

Anna Guixeras

Universitat de Barcelona

Smed-cdk-17 controls eye size during planarian regeneration and homeostasis

13:15-15:15 Lunch & Posters Session

SESSION III: Stem cell aging and neurodegeneration

Chair: Carolina Florian, ICREA / IDIBELL / P-CMR[C]

15:20 15:50 **Ana Martin-Villalba**

German Cancer Research Center, Heidelberg

Perils and Promise of Unlocking Stemness in the Adult and Aging Brain

15:50 16:20 **Isabel Fariñas**

Universitat de València / CIBERNED

A physical niche for adult neural stem cell quiescence

16:20 16:40 **Selected short talks**

Eleni Nikolopoulou

IDIBELL / P-CMR[C]

The role of vascular endothelial stem cells in the regeneration of the bone marrow vascular niche

Sandra M. Fernández Moya

Universidad de Málaga

STAU2 Coordinates Metabolism and RNA Regulation in Early Human Neurogenesis

16:40 17:20 Coffee break

SESSION IV: Stem cell-bacterial interactions

Chairs: Jordi Guiu, IDIBELL / P-CMR[C]

Esteban Hoijman, IDIBELL / CSIC

17:25 17:55 **Marc Lecuit**

Institut Pasteur, Paris

Elucidating bacteria-intestine interactions with organoid models

17:55 18:15 **Michael Sigal**
Max Delbrück Center, Berlin
Responses of gastrointestinal stem cells and their niche to environmental perturbations

18:15 20:00 Poster session

20:00 END OF DAY 1

DAY2 (9:00 – 13:00)

SESSION V: Stem cell dynamics during regeneration

Chair: Alessandra Giorgetti, UB / IDIBELL / P-CMR[C]

9:05 9:35 **David Fernandez-Antoran**

The Gurdon Institute, University of Cambridge / IIS-Aragon, Zaragoza
Capturing long-term stem cell behaviour in vitro using human Epithelioids

9:35 10:05 **Filipe Pereira**

Lund University Cancer Center
In Vivo Dendritic Cell Reprogramming for Immunotherapy

10:05 10:25 **Selected short talks**

Maria Magallon-Mosella

IDIBELL / P-CMR[C]

Studying the Role of Bone Marrow Niche in GATA2 Deficiency

Chiara Perrod

Institut d'Investigació contra la Leucèmia Josep Carreras, Barcelona

Human HSC self-renewal is maintained by fine-tuning RNA polymerase II activity

10:25 11:00 Coffe Break

SESSION VI: Keynote address

Chair: Angel Raya, ICREA / IDIBELL / P-CMR[C] / UB

11:10 12:10 KEYNOTE SPEAKER: Christine Mummery

Leiden University Medical Centre

Stem cell models of cardiovascular disease: where are we now?

12:10 13:00 Symposium awards and concluding remarks

Angel Raya, ICREA / IDIBELL / P-CMR[C] / UB

13:00 END OF SYMPOSIUM