



Building and Rebuilding Complex Tissues

18 July 2024, Robinson College, Cambridge

Morning, 08:15-13:05

08:15 Registration and welcome coffee

09:30 Opening Remarks

09:40 Session 1, chaired by Ben Steventon

09:40 **Jérôme Gros**, Institut Pasteur
Mechanical feedback during embryonic self-organization

10:00 **Giulia Paci**, University College London
Crafting robust patterns in developing tissues under mechanical stress

10:10 **Swati Sharma**, University of Manchester
Investigating retinal cellular dynamics in eye disorders using Zebrafish embryos

10:20 **Aida Rodrigo-Albors**, University of Edinburgh
Unlocking spinal cord regeneration across species

10:40 **Henry Roehl**, University of Sheffield
Dissecting development and redevelopment of the zebrafish larval tail

11:00 Break

11:40 Session 2, chaired by Sumru Bayin

11:45 **Can Aztekin**, École Polytechnique Fédérale de Lausanne
Signaling centers of limb development and regeneration

12:05 **Karen Ching**, University of Edinburgh
Uncovering Novel Liver Regeneration and Antifibrotic Pathways in Acomys (Spiny mice)

12:15 **Ziqi Dong**, University of Cambridge
Hypoxia regulates the fate of human fetal lung epithelial progenitors

12:25 **Aziz Aboobaker**, University of Oxford
Gene regulation in planarian stem cells during regeneration

12:45 **Ragnhildur Thóra Káradóttir**, Wellcome-MRC Cambridge Stem Cell Institute
Neuronal regulation of myelin regeneration

13:05 Lunch and poster session



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Afternoon, 14:30-18:30

14:30 Session 3, chaired by Mekayla Storer

14:35 **Rita Mateus**, Technische Universität Dresden and Max Planck Institute of Molecular Cell Biology and Genetics
Regeneration triggers a slow growth shift by scaling of morphogen gradients

14:55 **Uri Frank**, University of Galway
Cnidarian stem cells do everything

15:15 **Filipa Simões**, University of Oxford
Decoding immune-related spatial heterogeneity in the regenerating heart

15:35 **Oswaldo Chara**, University of Nottingham
Reaction-diffusion control of spinal cord regeneration in axolotls: a modelling study

15:55 Break

16:30 Session 4: Keynote Speaker, chaired by Mekayla Storer

16:35 **Ashley Seifert**, University of Kentucky
Evolution of regenerative ability

17:20 Poster prize

17:30 Closing Remarks

17:40 Reception drinks

18:30 End