

## Regenerative Medicine – from biology to therapy

Wellcome Trust Conference Center  
Hinxton, Cambridge, UK  
30 Oct-1 November, 2013

Lectures to be held in the Conference Centre Auditorium  
Lunch and dinner to be held in the Rosalind Franklin Pavilion  
Poster Sessions to be held in the Conference Centre Cloisters

### Draft Conference Programme

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#### Wednesday, 30 October

- 13.00 – 14.20     **Registration**
- 14.20 – 14.30     **Welcome and Introductions**
- 14.30 – 15.00     **Opening session**  
Mechanisms of nuclear reprogramming by eggs and oocytes  
*John Gurdon*  
*Wellcome Trust/ CR UK University of Cambridge, UK*
- 15.00 – 16.30     **Session 1: Regeneration biology – lessons from phylogeny**  
*Chairs:*
- 15.00 Tales of tadpole tail regeneration: A role for reactive oxygen species  
*Enrique Amaya*  
*University of Manchester, UK*
- 15.30 Selected abstract talk 1
- 15.45 Selected abstract talk 2
- 16.00 Regeneration of the mammalian retina by Müller glial stimulation  
*Yumi Ueki*  
*University of Washington, USA*
- 16.30 – 17.00     **Afternoon Tea**
- 17.00 – 18.00     **Session 1 - Regeneration biology – lessons from phylogeny**
- 17.00 Selected abstract talk 3
- 17.15 Selected abstract talk 4
- 17.30 Planarians as a Model in Biomedical Research  
*Kerstin Bartscherer*  
*Max Planck Institute for Molecular Biomedicine, Germany*
- 18.00 – 19.30     **Poster session 1 (odd numbers) with drinks reception**

19.30 – 22.00 **Dinner**

20.00 – 22.00 **Cash Bar**

**Thursday, 31 October**

07.30 – 09.00 **Breakfast**

09.00 - 10.30 **Session 2: ES/iPS cell technologies**

09.00 Human Pluripotent Stem Cells for cell based therapy of liver diseases  
*Ludovic Vallier*  
*Cambridge University, UK*

09.30 Selected abstract talk 17

09.45 Selected abstract talk 18

10.00 Human ESC and iPSC models of synucleinopathies  
*Tilo Kunath*  
*MRC Centre for Regenerative Medicine, UK*

10.30 – 11.00 **Morning coffee**

11.00 – 12.30 **Session 2: ES/iPS cell technologies**

*Chairs:*

11.00  
*Rick Livesey*  
*Gurdon Institute, UK*

11.30 Selected abstract talk 19

11.45 Selected abstract talk 20

12.00 Genome exchange in human oocytes  
*Dieter Egli*  
*The New York Stem Cell Foundation, USA*

12.30 – 13.30 **Lunch**

13.30 – 15.00 **Session 3: Non-Stem cell based regenerative biology**

*Chairs:*

13.30 Synapse regeneration in neurodegenerative disease  
*Giovanna Mallucci*  
*MRC Toxicology Unit, UK*

14.00 Selected abstract talk 9

14.15 Selected abstract talk 10

14.30 Invited Speaker 9

- 15.00 – 15.30 **Afternoon Tea**
- 15.30 – 16.30 **Session 3 - Non-Stem cell based regenerative biology**
- 15.30 Selected abstract talk 11
- 15.45 Selected abstract talk 12
- 16.00 Plasticity and Regeneration Regulated by Nogo Receptor after CNS Injury  
*Stephen Strittmatter*  
*Yale University School of Medicine, USA*
- 16.30 – 18.00 **Posters 2 - (even numbers) with drinks reception**
- 18.00 – 19.30 **Free time**
- 19.30 – 22.00 **Conference dinner**

**Friday, 1 November**

- 07.30 – 09.00 **Breakfast**
- 09.00 – 10.30 **Session 4: Therapeutic regeneration by (stem) cell transplantation**  
*Chairs:*
- 09.00 Human glial progenitor cell-based treatment and modeling of neurological disease  
*Steve Goldman*  
*University of Rochester, USA*
- 09.30 Selected abstract talk 13
- 09.45 Selected abstract talk 14
- 10.00  
*Dennis Clegg*  
*University of California Santa Barbara, USA*
- 10.30 – 11.00 **Morning coffee**
- 11.00 – 13.00 **Session 4 - Therapeutic regeneration by (stem) cell transplantation**
- 11.00 Systemic factors regulating repair of aging tissues  
*Amy Wagers*  
*Harvard University, USA*
- 11.15 Selected abstract talk 15
- 11.30 Selected abstract talk 16
- 12.00 Antisense-mediated Exon Skipping: a Therapeutic Strategy for Titin-based Dilated Cardiomyopathy  
*Karl Laugwitz*

- 12.30 – 14.00      **Lunch**
- 14.00 – 15.00      **Session 5 – Regeneration biology & therapeutics**  
*Chairs:*
- 14.00    The control of hepatic progenitor cells in liver regeneration  
*Stuart Forbes*  
*The University of Edinburgh, UK*
- 14.30    Selected abstract talk 5
- 14.45    Selected abstract talk 6
- 15.00    Identifying cell surface markers predictive of improved cartilage  
regeneration  
*Anthony Hollander*  
*University of Bristol, UK*
- 15.00 – 15.30      **Afternoon Tea**
- 15.30 – 15.30      **Session 5 -Regeneration biology & therapeutics**  
*Chairs:*
- 15.30    Oligodendrocyte regeneration and white matter recovery after  
neonatal brain injury  
*Vittorio Gallo*  
*Children's National Medical Center, USA*
- 16.00    Selected abstract talk 7
- 16.15    Selected abstract talk 8
- 16.30    Defining the cellular hierarchy in bronchioalveolar regeneration  
*Juan Jose Ventura*  
*Cambridge Stem Cell Institute, UK*
- 17.00 – 17.15      **Closing remarks & depart**