

Programme

New Technologies and Applications for Genome Engineering





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Students, P.I.s or post docs can apply to attend for free*

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2011 Workshops

Cancer as a Microevolutionary Process Fish Muscle Growth and Repair: Models Linking Biomedicine and Aquaculture Growth, Division and Differentiation: Understanding Developmental Control

2012 Workshops

New Technologies and Applications for Genome Engineering Epigenetic Memory Imaging in Cell Biology: Where Next?

*Terms and conditions apply

















New Technologies and Applications for Genome Engineering

Wiston House • West Sussex • 25 - 28 March 2012

Programme

Sunday 25 March 2012

Odilady 20 IV	Idi Oil E012
12:30 - 14:00	Lunch
14:00 - 14:15	Introductions
	The Company of Biologists Claire Moulton
	Workshop Elizabeth Fisher, Andrew Smith and Victor Tybulewicz
	Gene Targeting and Genetic Screens Chair - Elizabeth Fisher
14:20 – 15:00	Allan Bradley Messing with complex genomes
15:05 – 15:45	Bill Skarnes Large-scale genome engineering in mouse and human stem cells
15:45 – 16:05	Tea break
16:05 – 16:45	Wolfgang Wurst Genetic tools to study neuropsychiatric diseases
16:50 – 17:30	Aris N Economides New approaches to conditional alleles and directional strategies using site specific recombination
17:30 - 17:50	Tea break
17:50 – 18:30	Junji Takeda Cell-based phenotype screenings using bi-allelically mutagenized ES cell bank
18:30 – 19:30	Pre-dinner drinks and poster session
19:30 - 21:00	Dinner
21:00 - 22:00	Slide presentations
22:00 - 23:30	Bar open

Programme

Monday 26 March 2012

08:00 - 09:00	Breakfast
	Chromosome Engineering and Humanisation Chair - Nancy Jenkins
09:00 - 09:40	Elizabeth Fisher and Victor Tybulewicz Transchromosomic mice
09:45 - 10:25	Yann Herault Improving chromosome engineering to explore gene dosage defects and aneuploidies
10:25 - 10:50	Tea break and group photo
10:50 – 11:30	Andrew Smith Are 'genomically humanised' mouse models really authentic?
11:35 – 12:15	Maria Jasin Double-strand break repair and the modification of the mammalian genome
12:20 - 13:00	Clyde Hutchison Building and installing a synthetic genome
13:00 - 14:00	Lunch
14:00 - 15:30	Walk (meet at Reception)
15:30 - 16:00	Tea break
	Transposons
	Chair - Andrew Smith
16:00 – 16:40	Francis Stewart BAC transposons and recent progress with recombineering
16:45 – 17:25	Nancy Jenkins Harnessing transposons for cancer gene discovery
17:30 – 18:10	Tian Xu PiggyBac transposon mutagenesis in mammals
18:15 - 19:00	Pre-dinner drinks
19:00 - 19:30	History talk on Wiston House
19:30 - 21:00	Dinner
21:00 - 23:30	Bar open

Programme

Tuesday 27 March 2012

08:00 - 09:00	Breakfast
	Stem Cells Chair - Bill Skarnes
09:00 - 09:40	Pentao Liu Sanger human iPS cells, their production and applications
09:45 - 10:25	Mario Capecchi The generation of good iPS cells
10:25 - 11:00	Tea break
11:00 - 11:40	Michele Calos Engineering iPS cells for cell therapy
11:45 – 12:25	Ivo Lieberam Formation and artificial regeneration of respiratory motor circuits
12:30 - 13:30	Lunch
	Tools and Technologies Chair - Victor Tybulewicz
13:30 – 14:10	Philip Gregory Genome editing with engineered zinc finger nucleases
14:15 – 14:55	Philippe Duchateau Meganuclease and genome engineering
15:00 - 15:40	Tea break
15:40 – 16:20	Toni Cathomen Cut & paste: genome engineering with ZFNs and TALENs
16:25 – 17:05	Andras Nagy Genetic "Mighty Machines" from Cre, Dre, Flp, PhiC31, PiggyBac, tet and other parts"
17:05 – 17:30	Elizabeth Fisher, Andrew Smith and Victor Tybulewicz Overview of meeting
18:00 - 19:00	Pre-dinner drinks
19:00 - 21:00	Dinner
21:00 - 24:00	Bar open
Wednesday	28 March 2012
07:30 - 09:00	Breakfast and depart





The Company of Biologists finances a range of awards and charitable grants through the publication of its five journals

Development • Journal of Cell Science • The Journal of Experimental Biology Disease Models & Mechanisms • Biology Open

These include:

Scientific Meeting Grants • Travelling Fellowships • Small Meeting Grants

For details of deadlines, or for more information see biologists.com/grants.html or email the Charity Administrator - charity@biologists.com









Wiston House

Attendees

Name Institute

Sarah Allan Disease Models & Mechanisms, UK

Allan Bradley Sanger Institute, UK

Erika Brunet MNHN, INSERM, France
Michele Calos Stanford University, USA
Mario Capecchi University of Utah, USA

Toni Cathomen Hannover Medical School, Germany

Neal Copeland The Methodist Hospital Research Institute, USA

Anny Devoy UCL, UK

Natalia Dinischiotu MRC NIMR, UK
Philippe Duchateau Cellectis, France

Aris N Economides Regeneron Pharmaceuticals, USA

Elizabeth Fisher UCL, UK

Philip Gregory Sangamo BioSciences, USA

Yann Herault ICS, France

Clyde Hutchison Venter Institute, USA

Yasumasa Ishida Nara Institute of Science & Technology, Japan

Maria Jasin Sloan-Kettering Institute, USA

Nancy Jenkins The Methodist Hospital Research Institute, USA

Ivo Lieberam King's College London, UK

Pentao Liu Sanger Institute, UK

Claire Moulton The Company of Biologists, UK

Andras Nagy Samuel Lunenfeld Research Institute, Canada

Stephen Pettitt Institute of Cancer Research, UK

Steven Pollard UCL, UK

Owen Siggs Oxford University, UK

Bill Skarnes Sanger Institute, UK

Andrew JH Smith Universities of Edinburgh and Oxford, UK

Francis Stewart Dresden University of Technology, Germany

Junji Takeda Osaka University, Japan

Victor Tybulewicz MRC NIMR, UK

Tian Xu Yale University, USA

Wolfgang Wurst Helmholtz Zentrum München, Germany



The Company of Biologists is a UK based charity and not-for-profit publisher run by biologists for biologists. Established in 1925, the company's aims are to promote research and study across all branches of biology. The Company publishes three established journals, Development, Journal of Cell Science, The Journal of Experimental Biology and two newer Open Access journals, Disease Models & Mechanisms and Biology Open.

In addition to publishing, The Company makes an important contribution to the scientific community, providing grants, travelling fellowships and sponsorship to noteworthy scientists, meetings, societies and collaborative projects around the world. The Company also runs a series of transdisciplinary workshops.



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