

Programme

Imaging in Cell Biology: Where Next?



14 - 17 October 2012 • Cumberland Lodge • Windsor • Berkshire • UK



Imaging in Cell Biology: Where Next?

Cumberland Lodge • Berkshire 14 - 17 October 2012



18:00 – 18:45	Pre-dinner drinks in the Drawing Room
18:45 – 20.00	Dinner in the Cumberland Room
20:00 - 20:15	Introductions in the Cumberland Room
	Claire Moulton - The Company of Biologists Michael Way - Chairman's remarks
20:15 - 21:00	Slide presentations
21:00 - 22:00	Opening lecture
	John Sedat - Plenary talk Live biological imaging: the technological challenge for four-dimensional microscopy
22:00 - 23:00	Bar open



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Monday 25	June 2012
08:00 - 08:55	Breakfast in the Prince Christian Room
08:55 - 09:00	Session I
	Chair - Gipi Schiavo Introduction to session
09:00 - 09:40	Jennifer Lippincott-Schwartz Emerging fluorescence technology to study the spatial and temporal dynamics of molecules within living cells
09:40 - 10:20	Gaudenz Danuser Computer vision in cell biology: where next?
10:20 – 11:00	Molly Stevens Using imaging for the development of new biomedical materials
11:00 – 11:40	Group photograph Coffee break in the Greening Room
11:40 – 12:20	Ernst Stelzer Light sheet-based fluorescence microscopy (LSFM) reduces phototoxic effects, providing new means for modern life sciences
12:20 - 13:00	Mark Lythgoe In vivo imaging of cellular function and gene expression: photoacoustic, MRI and nuclear imaging
13:00 - 14:15	Lunch in the Prince Christian Room
14:25 - 14:30	Session II
	Chair - Francis Barr Introduction to session
14:30 – 15:10	Graham Knott Correlated light and focussed ion beam scanning electron microscopy
15:10 – 15:50	Petra Schwille Accessing molecular dynamics in live cells: how quantitative can we be?
15:50 - 16:30	Tea break in the Windham Room
16:30 - 19:00	Poster session in the Greening Room
19:00 – 20:00	Pre-dinner drinks in the Drawing Room History talk on Cumberland Lodge
20:00 - 21:30	Dinner in the Cumberland Room
21:30 - 23:00	Bar open

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Tuesday 16t	th October
08:00 - 08:55	Breakfast in the Cumberland Room
08:55 - 09:00	Session III
	Chair - Francis Barr Introduction to session
09:00 - 09:40	Michiyuki Matsuda Live imaging of signaling molecule activities in transgenic mice expressing FRET biosensors
09:40 - 10:20	Kay Grünewald Integrated imaging of virus-host-interactions
10:20 – 11:00	Markus Sauer Fluorescence localization microscopy – the transition from concept to biological research tool
11:00 - 11:40	Coffee break in the Greening Room
11:40 – 12:20	Ilan Davies The mechanism of translational regulation in the Drosophila oocyte - superresolution and live cell imaging
12:20 – 13:00	Pavel Tomancak Open source bioimage informatics - what is it good for?
13:00 – 14:15	Lunch in the Prince Christian Room
14:25 – 14:30	Session IV
	Chair - Gipi Schiavo Introduction to session
14:30 – 15:10	Daniel Gerlich Machine learning and modeling in image-based screening
15:10 – 15:50	Yuri Korchev Beyond the optical resolution in living cells: biomedical applications of scanning ion conductance microscopy
15:50 - 16:30	Tea break in the Greening Room
16:30 – 17:10	Philippe Bastiaens Cellular automata in quantitative cell biology
17:10 – 18:00	Gipi Schiavo, Francis Barr and Michael Way General discussion and closing remarks
19:00 - 20:00	Pre-dinner drinks in the Drawing Room
20:00 - 22:00	Dinner in the Prince Christian Room
22:00 - 23:00	Bar open

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Wednesday 17th October

08:00 - 09:00

Breakfast in the Prince Christian Room

Depart



Wiston House

Attendees

Attendees		
Name	Institute	
Sharon Ahmad	Journal of Cell Science, UK	
Kurt Anderson	Beatson Institute for Cancer Research, UK	
Francis Barr	University of Oxford, UK	
David Barry	Cancer Research UK	
Philippe Bastiaens	MPI, Germany	
Atul Bharde	Ohio State University, USA	
Gabriela Bodea	University of Bonn, Germany	
Ilan Davis	University of Oxford, UK	
Gaudenz Danuser	Harvard Medical School, USA	
Maud Dumoux	Birkbeck College/UCL, UK	
Daniel Gerlich	IMBA Vienna, Austria	
Kay Grünewald	University of Oxford, UK	
Callista Harper	Queensland Brain Institute, Australia	
Graham Knott	EPFL, Switzerland	
Yuri Korchev	Imperial College London, UK	
Janos Kriston-Vizi	University College London, UK	
David Lando	University of Cambridge, UK	
Jennifer Lippincott-Schwartz	NICHD/NIH, USA	
Mark Lythgoe	Centre for Advanced Biomedical Imaging, University College London, UK	
Michiyuki Matsuda	Kyoto University, Japan	
Claire Moulton	The Company of Biologists, UK	
Julian Ng	MRC Laboratory of Molecular Biology, UK	
Helio Roque	University of Oxford, UK	
Markus Sauer	University of Wuerzburg, Germany	
Gipi Schiavo	Cancer Research UK	
Petra Schwille	MPI of Biochemistry, Germany	
John Sedat	University of California, San Francisco, USA	
Ernst Stelzer	Goethe University Frankfurt am Main, Germany	
Molly Stevens	Imperial College London, UK	
Pavel Tomancak	MPI-CBG, Dresden, Germany	
Michael Way	Cancer Research UK	



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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