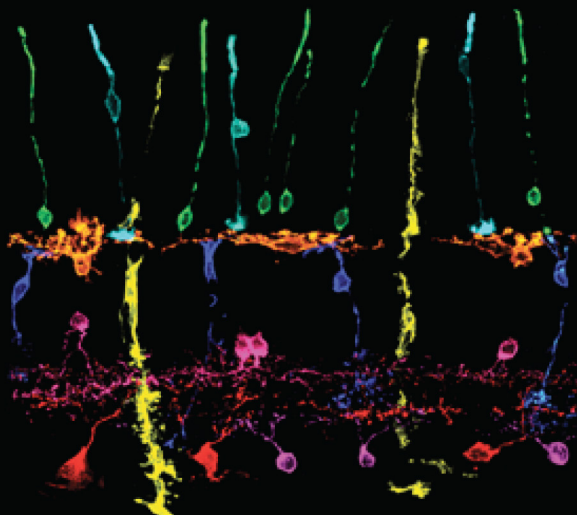


British Society for Developmental Biology
British Society for Cell Biology

Joint Spring Meeting 2013

17-20 March 2013
 University of Warwick UK

Dave Adams
 Kathryn Anderson
 Andreas Bergmann
 Anna Bigas
 Mario de Bono
 Sarah Bray
 Cathrin Brisken
 Juan Burrone
 Guillaume Charras
 Gaudenz Danuser
 Jyotsna Dhawan
 Maria Dominguez
 Freek van Eeden
 Tariq Enver
 Jenny Gallop
 Darren Gilmour
 Christine Holt
 Martin Howard
 Ludger Johannes
 Gerd Jürgens
 Tarun Kapoor
 Robb Krumlauf
 Patrick Lemaire



Pierre-François Lenne
 Gero Miesenböck
 Danesh Moazed
 Kate Nobes
 DuoJia Pan
 Liz Patton
 Marysia Placzek
 Graça Raposo
 Jody Rosenblatt
 Jenny Ross
 Ben Simons
 Helen Skaer
 Liz Smythe
 Claudio Stern
 Charles Streuli
 Ely Tanaka
 Barry Thompson
 Tao Uttamapinant
 Julie Welburn
 Mike White
 Shigenobu Yonemura
 Jennifer Zallen

Plenary lectures by
Olivier Pourquie and David Drubin

Topics include: Epithelia and Mechanosensing, Cell Cycle and Death, Motors and Morphogenesis, Trafficking, Gene Regulation, Cancer Models, Stem Cells and Regeneration, Neurons and the Nervous System

Scientific organisers: Keith Brennan, James Briscoe, Andrew McAinsh, Stephen Royle, Jean-Paul Vincent, Fiona Wardle


BSCB/BSDB Joint Spring Meeting - Programme 2013

Sunday 17 March 2013




1200 – 1500	BSCB/BSDB Committee Meetings – Ensemble Room (BSDB) and Grid Room (BSCB)	
1400 – 1800	Registration – Conference Reception – Back of Senate House	
1500 – 1630	Workshop 1 – Alternative Careers for Scientists Workshop – Woods-Scawen Lecture Theatre	
1500 – 1630	Workshop 2 – Education and Widening Participation Workshop – Main Lecture Theatre	
1630 – 1800	Graduate Symposium – Chair: Professor Robb Krumlauf – Main Lecture Theatre	
1630 - 1645	How to build a mitotic spindle - D Hayward (P24)	
1645 – 1700	Moesin orchestrates actin-dependent shape changes in cells during mitotic exit - NTL Rodrigues (P37)	
1700 – 1715	The role of forces in Contact Inhibition - A Luchici (P48)	
1715 – 1730	Distinct roles for isoforms of Regulator of G-protein Signalling 3 (RGS3) throughout neuronal maturation - SJ Fleenor (P75)	
1730 - 1745	The <i>C. elegans</i> MLL/COMPASS prevents expression of germline characteristics in somatic cells - SY Wang (P87)	
1745 – 1800	Post-transcriptional regulation of the <i>Drosophila</i> Hox gene <i>Ultrabithorax</i> by microRNAs during appendage formation - R Kaschula (P105)	
1800 – 1930	Dinner – Rootes Building	
1930 – 2030		PL 1 BSDB Plenary Lecture - Main Lecture Theatre Olivier Pourquie – Patterning the vertebrate axis
2030 – 2130		PL 2 BSCB Garland Plenary Lecture - Main Lecture Theatre David Drubin – Harnessing actin dynamics for endocytic trafficking
2130 onwards	Student and Post Doc Social – Chancellors Suite Rootes Building	

Kindly sponsored by  **Garland Science**
Taylor & Francis Group

Monday 18 March 2013

0800 – 2000	Registration – Arts Centre	
Session 1:	Epithelia and Mechanosensing – Woods-Scawen Lecture Theatre Chair: Jim Smith	Cell Cycle and Death – Main Lecture Theatre Chair: Tim Hunt
0900 – 0930	S1 Barry Thompson, London Research Institute Cancer Research UK, Epithelial polarity in <i>Drosophila</i>	S6 Jody Rosenblatt, Huntsman Cancer Institute, USA Mechanical stretch rapidly triggers epithelial cells to divide
0930 – 1000	S2 Pierre-Francois Lenne, IBDML - Institut de Biologie du Développement de Marseille, France Mesoscopic origins of cell mechanics during tissue morphogenesis	S7 Paul Conduit A model for centrosome maturation in <i>Drosophila</i>
1000 – 1030	S3 Jenny Gallop, The Wellcome Trust/Cancer Research UK Gurdon Institute, UK Formation of actin structures at membranes	S8 Andreas Bergmann, The University of Texas MD Anderson Cancer Center, USA Genetic control of Apoptosis and Apoptosis-Induced proliferation in <i>Drosophila</i>
1030 – 1100	Refreshment Break and Exhibition Viewing Time – Arts Centre Gallery	
1100 – 1130	S4 Shigenobu Yonemura, RIKEN Center for Developmental Biology, Japan Mechanosensing function of alpha-catenin in epithelial morphogenesis	S9 Duoqia Pan, Howard Hughes Medical Institute, USA Control of organ size and tumorigenesis by the Hippo signalling pathway
1130 – 1145	01 DT Grimes - Cilia, flow sensing, and polycystins: how the embryo determines left from right	03 AP Gilmore - Bax dynamics between the cytosol and mitochondria control apoptotic sensitivity.
1145 – 1200	02 K Röper - Anisotropy of Crumbs and aPKC drives myosin cable assembly during tube formation	04 E Vladimirov - Non-autonomous movement of chromosomes in mitosis
1200 – 1230	S5 Guillaume Charras, UCL Research Department of Cell and Developmental Biology, UK Nanotechnology in cell and developmental biology	S10 Julie Welburn, University of Edinburgh, UK Molecular determinants of kinesin specificity: Kinesin-13 as a paradigm
1230 – 1430	Lunch and Posters/Exhibition Viewing Time Mead Gallery, Arts Centre – Odd number posters to be displayed	
1330 – 1400	Lunchtime workshop –TALENS™: the next generation gene customization tools for gene knock-out and gene modification – kindly sponsored by Collectis Woods-Scawen Lecture Theatre	
		
Session 2:	Motors and Morphogenesis - Woods-Scawen Lecture Theatre Chair: Anne Ridley	Cancer Models – Main Lecture Theatre Chair: Clare Isacke
1430 – 1500	S11 Helen Skaer, University of Cambridge, UK Taking shape: morphogenesis of fly renal tubules	S16 Maria Dominguez, Universidad Miguel Hernández, Spain Mechanisms of growth control and cancer
1500 – 1530	S12 Catherine Nobes, University of Bristol, UK Stopping and starting of cell migrations - the role of Ephs and ephrins during cancer invasion and wound healing	S17 Liz Patton, Institute of Genetics and Molecular Medicine, UK Chemical genetic approaches to melanocytes and melanoma development
1530 – 1600	S13 Darren Gilmour, EMBL Heidelberg, Germany Self-generated directionality during collective migration	S18 Freek van Eeden, The University of Sheffield, UK Functional analysis of Von Hippel Lindau in zebrafish
1600 – 1630	Refreshment break and Exhibition Viewing Time – Arts Centre Gallery	
1630 - 1700	S14 Jennifer Zallen, Memorial Sloan-Kettering Cancer Centre, USA Shaping the embryo: cellular dynamics in development	S19 Dave Adams, Wellcome Trust Sanger Institute, UK Next-generation mouse cancer models
1700 – 1715	05 JR Davis - Emergence of embryonic pattern through contact inhibition of locomotion	07 N Bausek - Linking JAK/STAT signalling to cell morphology and motility
1715 – 1730	06 J Cayuso - EphrinB/EphB signalling controls liver and lateral plate mesoderm morphogenesis	08 Ahmet Acar - A key regulatory role of Notch signalling via cross-talk with TGF- β pathway in mediating the myofibroblastic differentiation of CAFs
1730 – 1800	S15 Jennifer Ross, University of Massachusetts Amherst, USA Remodeling microtubules through severing	S20 Tariq Enver, UCL Cancer Institute, UK Gene regulatory networks governing hematopoietic stem cell development and identity
1800 – 1930	Dinner – Rootes Building	
1930 – 2030		Hooke Medal Talk – Eric Miska Gurdon Institute, University of Cambridge, UK Regulatory non-coding RNA: self vs. non-self
2030 – 2130		Waddington Medal Talk – Invited Speaker
2130 – 0000	Drinks Reception – Rootes Bar, Rootes Building Level 1	

Tuesday 19 March 2013

0800 – 18.00	Registration – Arts Centre	
Session 3:	Gene Regulation - Woods-Scawen Lecture Theatre Chair: Roger Patient	Trafficking – Main Lecture Theatre Chair: David Owen
0900 – 0930	S21 Sarah Bray, University of Cambridge, UK Decoding the Notch response	S26 Ludger Johannes, Institut Curie, France Endogenous and pathogenic lectins use glycosphingolipids to drive clathrin-independent endocytosis
0930 – 1000	S22 Danesh Moazed, Harvard Medical School, USA Mechanism of RNAi-Mediated heterochromatin assembly	S27 Graca Raposo, Institut Curie,, France Endosome dynamics during melanosome biogenesis and the regulation of pigmentation
1000 – 1030	S23 Martin Howard, University of Cambridge, UK Dissecting quantitative epigenetic silencing through mathematical modelling and experiments	S28 Misoon Park, University of Tuebingen, Germany Plant cytokinesis – a tale of membrane traffic and fusion
1030 – 1100	Refreshment break and Exhibition Viewing Time - Mead Gallery, Arts Centre	
1100 – 1130	S24 Patrick Lemaire, Institut du Biologie de Développement de Marseille Luminy, France How to make morphologically similar embryos with divergent genomes?	S29 Liz Smythe, The University of Sheffield, UK Endocytosis and signalling, an essential partnership
1130 – 1145	09 F Mueller - Resolving the transcription initiation codes during the maternal to zygotic transition in the vertebrate embryo	011 DJ Stephens - Efficient COPII vesicle coat assembly is necessary for effective collagen secretion during development.
1145 – 1200	010 J McColl - Smad1 integrates BMP2 and Wnt3a signals in migrating cardiac progenitor cells during early heart formation	012 K Beckett - Analysis of potential mechanisms of Wnt packaging for extracellular movement.
1200 – 1230	S25 Mike White, Faculty of Life Sciences, University of Manchester, UK Dynamic control of transcription in single cells and tissues	S30 Tao Uttamapinant, Massachusetts Institute of Technology, USA Delivery and site-specific targeting of small fluorophores to proteins in living cells for super-resolution imaging
1230 – 1430 1330 – 1415	<p>Lunch and Poster/Exhibition Viewing Time – Mead Gallery, Arts Centre Even numbered posters to be displayed</p> <p>Lunchtime Workshop – Transparent peer review: a scientific literature that supports research - kindly sponsored by EMBO</p> <p>Woods-Scawen Lecture Theatre</p>	
	 	
Session 4:	Stem Cells and Regeneration - Woods-Scawen Lecture Theatre Chair: Austin Smith	Neurons and Nervous Systems – Main Lecture Theatre Chair: Steve Wilson
1430 – 1500	S31 Anna Bigas, Institut Hospital del Mar d'Investigacions Mèdiques (IMIM), Spain Downstream of Notch signalling in Hematopoietic Stem Cell Development.  Kindly sponsored by <i>Cancer knows no boundaries. Fortunately, neither do we.</i>	S36 Juan Burrone, King's College London,, UK Homeostatic plasticity: from synapse to the axon initial segment
1500 – 1530	S32 Ben Simons, University of Cambridge, UK Defining the cellular hierarchy in skin maintenance, repair and disease	S37 Marysia Placzek, University of Sheffield, UK Alpha-tanycytes of the hypothalamic third ventricle include distinct populations of FGF-responsive neural progenitors
1530 – 1600	S33 Elly Tanaka, TUD/CRTD, Germany Muscle dedifferentiation and satellite cell activation during salamander limb regeneration and its molecular control	S38 Mario de Bono, MRC Laboratory of Molecular Biology, UK Systematically dissecting the molecular and neural basis of a behaviour
1600 – 1630	Refreshment Break and Exhibition Viewing Time - Mead Gallery, Arts Centre	
1630 – 1700	S34 Jyotsna Dhawan, National Centre for Biological Science, India Quiescent adult stem cells: sleeping beauties or high-wire artistes?	S39 Claudio Stern, UCL Research Department of Cell and Developmental Biology, UK Somites without a clock
1700 – 1715	013 B Pernaute - MicroRNA regulation of naive and primed pluripotent states	015 EM Amaniti - <i>Gli3</i> is required in dorsal telencephalic progenitors for corticothalamic axon path finding
1715 – 1730	014 JJ Holzspies - Lineage priming in embryonic stem cells is regulated at the level of transcriptional elongation	016 RM Das - Cell behaviour underlying neurogenesis in the spinal cord
1730 – 1800	S35 Cathrin Brisken, École polytechnique fédérale de Lausanne Switzerland Breast stem cells and hormonal mechanisms in cancer carcinogenesis	S40 Christine Holt, University of Cambridge, UK Building connections in the visual system: role of RNA-based axon guidance
1800 – 1930	BSDB AGM	BSCB AGM
2000 onwards	Conference Dinner – Panorama Suite Rootes Building	

Wednesday 20 March 2013

0800 – 1200	Registration – Arts Centre	
Session 5	Joint Plenary Sessions – Main Lecture Theatre Chair: Daniel St Johnston	
0900 – 0930	S41 Gero Miesenbock, University of Oxford, UK Lighting up the brain	
0930 – 1000	S42 Gaudenz Danuser, Harvard Medical School, USA Defining causality in nonlinear and spatially-distributed cellular pathways	
1000 – 1030	Beddington Medal Talk – Helen Weavers Tip cells act as dynamic anchors during tube morphogenesis in <i>Drosophila</i>	
1030 – 1100	Refreshment Break – Mead Gallery, Arts Centre,	
1100 – 1130	S43 Charles Streuli, Faculty of Life Sciences, University of Manchester, UK How integrins control epithelial polarity	
1130 – 1200	S44 Kathryn Anderson, Memorial Sloan-Kettering Cancer Centre, UK KIF7 acts as a microtubule capping and severing protein to control cilia length and Sonic hedgehog activity	
1200 – 1230	S45 Robb Krumlauf, Stowers Institute for Medical Research, USA <i>Hox</i> genes and head development: a story in segments	
1200 – 1430	Lunch & delegates depart	