

David Martinelli (Johns Hopkins University, Baltimore, MD, United States)

Durham, United Kingdom)

09:45 –
10:15

S2 - Coordinating Lineage Choices in Pluripotent Stem Cells
Sally Lowell (University of Edinburgh, UK)

S6 - Prion-Mediated Epigenetic Regulation in Yeast
Mick Tuite (University of Kent, UK)

10:15 – 10:45

Refreshment Break
(Mead Gallery and Art Centre Studio)

10:45 –
11:15

S3 - Robustness and Scaling in Embryonic Development
Naama Barkai (Weizmann Institute of Science, Israel)

S7 – Chromatin and Stem Cells
Amanda Fisher (Imperial College, London)

11:15 –
11:30

A2 - Engineering drug-dependent protein alleles: timing of GSK-3b activity during craniofacial development
Karen Liu (King's College London, United Kingdom)

A4 - Inhibition of neural crest migration underlies craniofacial dysmorphology and Hirschsprung's disease in Bardet-Biedl syndrome
Jonathan Tobin (UCL, London, United Kingdom)

11:30 –
12:00

S4 - Forming and Interpreting Morphogen Gradients
Jim Smith, (Wellcome Trust/Cancer Research UK Gurdon Institute, UK)

S8 - Filaggrin - From Cytoskeleton to Common Skin Disease
W.H. Irwin McLean (Dundee, UK)

12:00 – 14:00

Lunch & Poster Session
(Mead Gallery and Art Centre Studio)

Workshop - 'How to get your paper published'
(SS0.21)

SESSION 2:
BSDB: Gene Networks & The Control of Gene Expression
Session Chair: Eileen Furlong
(Cinema)

SESSION 2:
BSCB: Biogenesis and Specialization of the Cytoskeleton
Session Chair: Pierre Coulombe
(Main Theatre)

14:00 –
14:30

S9 - Gene Regulatory Networks During Development: Dissecting the Logic
Eileen Furlong (European Molecular Biology Laboratory, Germany)

S13 - Building the Centriole, Basal Body and Flagellum – Insights from Trypanosomes to Man
Keith Gull (Sir William Dunn School of Pathology, UK)

14:30 –
14:45

A5 - Identification of Hox-Controlled Regulatory Networks in Drosophila: Making a Haltere Instead of a Wing
Anastasios Pavlopoulos (University Museum of Zoology, Cambridge, United Kingdom)

A7 - The extracellular domain of Smoothed is required for ciliary localisation and maximal Hedgehog pathway activation
Pia Aanstad (University of California, United States)

14:45 – 15:15	S10 - Making and Shaping the Futegut Susan Mango (University of Utah, USA)	S14 - Spatio-Temporal Regulation of Microtubule Organisation Takashi Toda (Cancer Research UK, UK)
15:15 – 15:45	Refreshment Break (Mead Gallery)	
15:45 – 16:15	S11 - How do highly conserved non-coding elements (CNEs) encoded in vertebrate genomic DNA influence the expression of developmental regulators? Greg Elgar (University of London, UK)	S15 - Making Sense of Cilia: Emerging Ciliopathies Phil Beales (UCL Institute of Child Health, UK)
16:15 – 16:30	A6 - Transcriptionally Profiling Graded Sonic Hedgehog Identifies a Major Role for Foxj1 in the Specification of the Floor Plate Catarina Cruz (NIMR, London, United Kingdom)	A8 - Nlp Promotes Interphase Microtubule Anchoring through Gamma-Tubulin Recruitment and is Coordinately Regulated by the Centrosomal Kinases Nek2 and Plk1 Guojie Mao (University of Leicester, United Kingdom)
16:30 – 17:00	S12 - Transcriptional Regulation of Complex Genetic Loci During Vertebrate Development Peter Rigby (Institute of Cancer Research, UK)	S16 - Cell Force and Form: Mechanosensing by Protein Unfolding Michael P. Sheetz (Department of Biological Sciences, Columbia University, New York, USA)
17:00 – 18:00	BSCB: Hooke Medal	
18:00 – 19:00	BSDB AGM (Main Theatre)	BSCB AGM (SSO.21)
19:00 – 20:30	Dinner (Rootes Restaurant)	
20:30 – 21:30	Poster Session & Trade Exhibition Odd number posters 20:30-21:30 Even number posters 21:30-22:30 (Mead Gallery and Arts Centre Studio)	

Wednesday April 2nd, 2008

07.30 – 09.30 **Breakfast (residential delegates only)** - Rootes Restaurant

Registration (Rootes Social Building)

08.00 – 19.30

SESSION 3:
BSDB: Regeneration and Repair
Session Chair: Margaret Buckingham
(Main Theatre)

SESSION 3:
BSCB: Signalling, the Cytoskeleton and Mechanotransduction
Session Chair: Keith Gull
(Cinema)

09:00 – 09:30 **S17 - The Role of Pax Genes in Determining the Myogenic Fate and Survival of Skeletal Muscle Stem Cells**
Margaret Buckingham (Pasteur Institute, France)

S21 - Mechanobiology and Developmental Control
Donald Ingber (Harvard Medical School, USA)

09:30 – 09:45 **A9 - Epithelial progenitor cells in lung development and repair**
Emma Rawlins (Duke University Medical Centre, United States)

A11 - *Drosophila* Dystrophin and Dystroglycan act in a polarity pathway that functions under conditions of energetic stress
Robert P. Ray (University of Sussex, United Kingdom)

09:45 – 10:15 **S18 - Understanding and Reconstructing the Enteric Nervous System**
Vassilis Pachnis (MCR National Institute for Medical Research, UK)

S22 - Regulation of the Actin Cytoskeleton by GTPases and WASP-Family Proteins
Laura Machesky (CRUK Beatson Institute for Cancer Research, UK)
Sponsored by the Association for International Cancer Research

10:15 – 10:45 **Refreshment Break**
(Mead Gallery and Arts Centre Studio)

10:45 – 11:15 **S19 - Hormone Gradients and Transcriptional Readouts in Plant (re)generation**
Ben Scheres (Utrecht University, Netherlands)

S23 - Regulation of a Transcriptional Coactivator through Actin Treadmilling
Richard Treisman (Cancer Research UK, UK)

11:15 – 11:30 **A10 - Characterization of Scarless Wound Healing in the Axolotl**
Mathieu Lévesque (Université de Montréal, Canada)

A12 - Mechanical properties of actomyosin cables during cell intercalation
Rodrigo Fernandez-Gonzalez (Sloan-

Kettering Institute for Cancer Research,
United States)

11:30 –
12:00

S20 - Regeneration, stem cells and the planarian *Schmidtea mediterranea*
Alejandro Sanchez Alvarado
(University of Utah School of Medicine, USA)
Sponsored by Cell Press

S24 - The Keratin Cytoskeleton: Tinkering with Translation
Pierre Coulombe (Department of Biological Chemistry, Johns Hopkins University School of Medicine, Baltimore, USA)

12:00 – 14:00

Lunch
(Mead Gallery and Arts Centre Studio)

Student Workshop - Your chance to ask the panel about careers in science
(SSO.21)

SESSION 4:
BSDB: Cell Fusion in Development
Session Chair: Benjamin Podbilewicz
(Cinema)

SESSION 4:
BSCB: Cellular Responses to Protein Misfolding
Session Chair: David Ron
(Main Theatre)

14:00 -
14:30

S25 - First Family of Cell-Cell Fusion Proteins
Benjamin Podbilewicz
(Technion -Israel Institute of Technology, Israel)

S29 - Life on the Edge: The Origins and Proliferation of Protein Misfolding
Chris Dobson (University of Cambridge, UK)

14:30 –
15:00

S26 - Myoblast Fusion in Drosophila: Role of FURMAs and F-actin Branching
Renate Renkawitz-Pohl (Philipps-Universität Marburg, Germany)

S30 - The Stress of Protein Misfolding in Neurodegenerative Disease and Aging
Rick Morimoto (Northwestern, USA)
Sponsored by Cancer Research UK
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15:00 –
15:30

Refreshment Break
(Mead Gallery and Arts Centre Studio)

15:30 –
16:00

S27 - Studies on Fertilization Using Gene Manipulated Animals and Requirement of Lzumo in Sperm-Egg Fusion
Masaru Okabe (Osaka University, Japan)

15:30-15:45
A13 - The Neuron-Specific Chaperone Hsj1 Reduces P-Tau Accumulation and Aggregation
Sergey Novoselov (UCL Institute of Ophthalmology, United Kingdom)

15:45-16:00
A14 - The ataxia protein sacs1 contains molecular chaperone domains and interacts with the proteasome
Paul Chapple (Queen Mary University of London, United Kingdom)

16:00 –
16:30

S28 - Fusion and Egg Activation at Fertilization

S31 - Chaperone-Mediated Autophagy: A Selective Mechanism for Lysosomal Degradation

Karl Swann (Cardiff University, UK)

Ana Maria Cuervo (Albert Einstein
College of Medicine, USA)

16:30 –
17:00

BSDB Beddington Medal Talk

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The developmental identity of mouse
and human embryonic stem cells
Paul Tesar (National Institute of
Health, USA)

**S32 - Autophagic clearance of Aggregate-
Prone Proteins: Therapeutic Implications**

David Rubinsztein (University of
Cambridge UK)

17:15 –
18:15

BSDB Waddington Medal

(Main Theatre)

18:15 –
19:30

Poster Session

(Mead Gallery and Art Studio Centre)

20:00 - Late

Conference Dinner

(Panorama Suite)
Sponsored by Carl Zeiss Limited

Thursday April 3rd, 2008

07.30 – 09.30 **Breakfast (residential delegates only)** - Rootes Restaurant

08.00 – 12.00 **Registration** (Rootes Social Building)

SESSION 5:

**BSDB: From Neuronal Identity
to Circuit Formation**

Session Chair: Martyn

Goulding

(Main Theatre)

*Session sponsored by Neural
Development*

SESSION 5:

**BSCB: Control and
Regulation of Intracellular
Traffic**

Session Chair: Rick

Morimoto

(Cinema)

09:00 –
09:30

**S34 - Genetic approaches for unraveling
the neural networks that control
locomotion**

Martyn Goulding (The Salk Institute,
La Jolla, USA, USA)

**S38 - Hsp70: J-proteins: Versatile
Molecular Chaperone Machines**

Elizabeth Craig (University of
Wisconsin, USA)

09:30 –
09:45

**A15 - Modelling Kallmann Syndrome in
the Zebrafish**

Steven Cadman (King's College London,
United Kingdom)

**A17 - Altered Lysosomal Calcium
Signalling Disrupts Endocytosis,
Autophagy and Membrane Traffic**

Emyr Lloyd-Evans (University of Oxford,
United Kingdom)

09:45 –
10:15

**S35 - Seeing Retinal Ganglion Cells
Beginning to Differentiate**

Bill Harris (Cambridge University, UK)

**S39 - Rab GTPases, Membrane Traffic
and Disease**

Miguel Seabra (Imperial College, UK)

10:15 – 10:45

Refreshment Break

(Mead Gallery and Art Centre Studio)

**10:45 –
11:15**

S36 - From Stem Cell to Unique Neuron: Specification of Neuronal Sub-Types by the Sequential Integration of Global, Temporal and Local Cues

Stefan Thor (Linköping University, Sweden)

S40 - Function and Dysfunction of Huntingtin in the Control of Intracellular Dynamics

Sandrine Humbert
(Institut Curie, France)

**11:15 –
11:30**

A16 - TGF-beta signals regulate axon growth in the absence of Smads

Julian Ng (King's College London, United Kingdom)

A18 - Identification of Mc2r Receptor Accessory Protein Domains Required for Interaction with Mc2r and Formation of a Functional Acth Responsive Receptor

Tom Webb (Queen Mary University London, United Kingdom)

**11:30 –
12:00**

S37 - Transcriptional Control of Midbrain Dopaminergic Neuron Development

Siew-Lan Ang (NIMR, UK)

S41 - Compartment-Specific Unfolded Protein Responses

David Ron (New York University School of Medicine, USA)

12:00 – 14:00

Lunch

(Mead Gallery and Art Centre Studio)

CLOSE