



**EDRC**

25th  
European  
Drosophila  
Research  
Conference

**2017**

22nd-25th September  
Imperial College **London**  
United Kingdom

**EDRC Programme 2017**

**Imperial College, London**

**Friday 22<sup>nd</sup> – Monday 25<sup>th</sup> September, 2017**



European  
Drosophila  
Research  
Conference

**Friday 22 September 2017**

09:00 - 19:00 **Conference registration desk opens**  
*Foyer – Sherfield Building*

11:00 – 13:15	<p style="text-align: center;"><b>WS1: Immunity and Hematopoiesis</b> <i>Clare Lecture Theatre – Huxley Building</i> <b>Bruno Lemaitre</b> (EPF Lausanne, Switzerland) <b>Rebecca Clark</b> (Durham University, UK)</p>	<p style="text-align: center;"><b>WS2: Cell competition</b> <i>Great Hall – Sherfield Building</i> <b>Eugenia Piddini</b> (Gurdon Institute, UK) <b>Laura Johnston</b> (Columbia University, USA)</p>
11:00 – 11:15	<p><b>WS1 – 1. Takayuki Kuraishi</b> (Kanazawa University, Japan) <i>Sterile induction of humoral innate immune response in <i>Drosophila</i> larvae</i></p>	<p><b>WS2 -1. Nicholas Baker</b> (Albert Einstein College of Medicine, USA) <i>Genetic analysis of Minute cell competition</i></p>
11:15 – 11:30	<p><b>WS1 – 2. Samuel Liegeois</b> (University of Strasbourg, France) <i>Revisiting the social life of bacteria in vivo: deciphering mechanisms of <i>P. aeruginosa</i> evasion of <i>Drosophila</i> Tep4-mediated opsonisation</i></p>	<p><b>WS2 – 2. Michael Dinan</b> (University of Bristol, UK) <i>Investigating the cell biology of the loser cell status</i></p>
11:30 – 11:45	<p><b>WS1 – 3. Laura Vesala</b> (University of Tampere, Finland) <i>Foxo modulates the hemocyte response to parasitoid wasps in <i>Drosophila</i> larvae</i></p>	<p><b>WS2 – 3. Romain Levayer</b> (Institut Pasteur, France) <i>Tissue crowding drives caspase-dependent competition for space</i></p>
11:45 – 12:00	<p><b>WS1 – 4. Hannah Roddie</b> (University of Sheffield, UK) <i>Regulation of hemocyte behaviour through contact with apoptotic cells during embryonic development</i></p>	<p><b>WS2 – 4. Jeff Axelrod</b> (Stanford University, California) <i>The atypical cadherin Flamingo mediates cell competition</i></p>
12:00 – 12:15	<p><b>WS1 – 5. Toshio Shibata</b> (Kyushu University, Japan) <i>Protection against exotoxins secreted by gut-invading bacteria through transglutaminase-catalyzed cross-linking of peritrophic matrix proteins</i></p>	<p><b>WS2 – 5. Marc Amoyel</b> (University of Bristol, UK) <i>Stem cell differentiation is an active selection process determined by PI3K/TOR levels</i></p>


12:15 – 12:30	<b>WS1-6. Petros Ligoxygakis</b> (Oxford, UK) <i>NF-κB immunity in the brain determines fly lifespan in healthy ageing and age related neurodegeneration</i>	<b>WS2 – 6. Todd Nystul</b> (University of California, USA) <i>Neutral competition for the ovarian follicle stem cell niche is impaired by mutations in vesicle trafficking and cell signaling</i>
12:30 – 12:45	<b>WS1-7. Tomas Dolezal</b> (University of South Bohemia, Czech Republic) Molecular mechanisms connecting activation of immune cells with metabolic changes at systemic level	<b>WS2 – 7. Erika Bach</b> (NYU School of Medicine, USA) The role of Dilp8/Lgr3 in cell competition
12:45 – 13:00	<b>WS1-8. Estee Kurant</b> (University of Haifa, Israel) <i>Molecular mechanisms regulating development of phagocytic ability in embryonic macrophages</i>	<b>WS2 – 8. Agnes Regina Banreti</b> (The Breast Cancer Now Toby Robins Research Centre, UK) <i>Synaptic density complex proteins maintains epithelial tissue fitness</i>
13:00 – 13:15	<b>WS1-9. Michele Crozatier</b> (Toulouse University, France) <i>A ubiquitin-proteasome pathway controls Drosophila hematopoiesis</i>	<b>WS2 – 9. Laura Johnston</b> (Columbia University, USA) <i>A Toll receptor and NF-κB-based cell fitness surveillance system that promotes optimal animal development</i>
13:20 - 14:30	<b>Lunch and Exhibition Viewing</b> <i>Queens Tower Room &amp; Senior Common Room – Sherfield Building</i>	
14:15 – 17:00	<b>WS3: Gut &amp; microbiota</b> <i>Great Hall – Sherfield Building</i> <b>Julia Cordero</b> (University of Glasgow, UK) <b>Irene Miguel-Aliaga</b> (Imperial College London, UK)	<b>WS4: Mitochondria</b> <i>Clore Lecture Theatre – Huxley Building</i> <b>Joe Bateman</b> (King’s College London, UK) <b>Alex Whitworth</b> (MRC Mitochondrial Biology Unit, UK)
14:15 – 14:30	<b>WS3-1. Bruno Hudry</b> (Imperial College London, UK) <i>Gonadal sex controls metabolic identity of intestinal enterocytes</i>	<b>WS4 -1. Bart Deplancke</b> (EPFL, Switzerland) <i>Mitochondrial variation within the Drosophila Genetic Reference Panel</i>
14:30 – 14:45	<b>WS3-2. Francois Leulier</b> (IGF Lyon) <i>A farming mechanism sustains commensal bacteria fitness and nutritional mutualism upon chronic undernutrition</i>	<b>WS4 – 2. Hansong Ma</b> (University of Cambridge, UK) <i>Homologous recombination in fly mtDNA</i>

14:45 – 15:00	<b>WS3–3. Paula Watnick</b> (Boston Children’s Hospital, USA) <i>Interactions of hosts with their intestinal bacteria on a metabolic landscape</i>	<b>WS4 – 3. Hong Xu</b> (NIH, USA) <i>How mother gives healthy and enough mitochondria.</i>
15:00 – 15:15	<b>WS3–4. Henri Jasper</b> (Fritz Lipmann Institute, Germany) <i>Inflammation and immune modulation: tackling age-related stem cell dysfunction</i>	<b>WS4 – 4. Thomas Rival</b> (IBDM, France) <i>Mitofusin alleles commonly associated with Charcot-Marie-Tooth disease differently affect mitochondrial dynamics in neurons.</i>
15:15 – 15:30	<b>WS3–5. Norbert Perrimon</b> (Harvard Medical School, USA) <i>Electrolytes regulation and stem cell proliferation in gut stem cells</i>	<b>WS4 – 5. Maximo Ibo Galindo Orozco</b> (CIPF, Spain) <i>Mitochondrial dynamics and neurodegeneration. A metabolic connection?</i>
15:30 – 15:45	<b>WS3–6. Lucy O’Brien</b> (Stanford University School of Medicine, USA) <i>Adult midgut stem cells achieve an ordered spatial distribution through autonomous motility</i>	<b>WS4 – 6. Miguel Martins</b> (MRC Toxicology Unit, Leicester, UK) <i>Lost in translation.</i>
15:45 – 16:00	<b>WS3-7. Golnar Kolahgar</b> (University of Cambridge, UK) <i>Cell fate decisions within the Drosophila gut are modulated by Notum in a BMP-dependent manner.</i>	<b>WS4 – 7. Alberto Sanz</b> (University of Newcastle, UK) <i>Do you want to understand ROS? Ask about the where and the how!</i>
16:00 – 16:15	<b>WS3–8. Bruce Edgar</b> (Huntsman Cancer Institute, USA) <i>SH3PX1-dependent autophagy restrains intestinal stem cell proliferation by controlling endosomal trafficking and EGFR pathway activity</i>	<b>WS4 – 8. Helena Cocheme</b> (Imperial College London, UK) <i>Age-dependent oxidative stress resistance in adult flies conferred by residual larval tissue.</i>
16:15 – 16:30	<b>WS3–9. Louis Gervais</b> (Institut Curie, France) <i>The chromatin remodeling factor Kismet / CHD7 controls Drosophila intestinal stem cell activity</i>	<b>WS4 – 9. Alex Whitworth</b> (MRC Mitochondrial Biology Unit, Cambridge, UK) <i>Modulating mitochondrial calcium against neurodegeneration.</i>
16:30 – 16:45	<b>WS3–10. Julia Cordero</b> (University of Glasgow) <i>The adult Drosophila midgut as a model system to study conserved mechanisms driving intestinal homeostasis during health and disease</i>	<b>WS4 – 10. Joseph Bateman</b> (King’s College London, UK) <i>Tools for interrogating mitochondrial function in the Drosophila nervous system.</i>


17:00 - 17:15	Opening Remarks <i>Great Hall – Sherfield Building</i>	
17:15-18:05	<b>Plenary 1: The EMBO Keynote Lecture – Protecting totipotency</b> <i>Great Hall – Sherfield Building</i> Ruth Lehmann (NYU School of Medicine, USA)	
18:05 - 18:55	<b>Plenary 2: Neuromodulators signal through astrocytes to alter neural circuit activity and behavior</b> <i>Great Hall – Sherfield Building</i> Marc Freeman (University of Massachusetts Medical School, USA)  Dr Freeman's lecture is sponsored by the Biochemical Society	
19:00 - 21:30	<b>Welcome Reception</b> <i>Queens Tower Room &amp; Senior Common Room – Sherfield Building</i>	

**Saturday 23 September 2017**

09:00 - 09:50	<b>Plenary 3: Using flies to probe the mechanisms of organelle size regulation</b> <i>Great Hall – Sherfield Building</i> Jordan Raff (University of Oxford, UK)		
10:00 - 11:00	<b>S01: Cell biology &amp; biomechanics I</b> <i>Clore Lecture Theatre – Huxley Building</i> <b>Christian Dahmann</b> (TU Dresden, Germany)	<b>S02: Methods &amp; Omics I</b> <i>Lecture Theatre 308 – Huxley Building</i> <b>Ingrid Lohmann</b>	<b>S03: Disease models I</b> <i>Great Hall – Sherfield Building</i> <b>Ross Cagan</b> (Mount Sinai New York, USA)

	<b>Yanlan Mao</b> (University College London, UK)	(University of Heidelberg, Germany) <b>Samir Merabet</b> (IGF Lyon, France)	<b>Ody Sibon</b> (University of Groningen, Netherlands) 
10:00 – 10:15	<b>O001: F O'Farrell</b> (Institute for Cancer Research, Norway) <i>Class III phosphatidylinositol 3-kinase controls epithelial integrity through endosomal LKB1 regulation</i>	<b>O011: B Oliver</b> (NIH, USA) <i>Context dependent sex-biased expression and function</i>	<b>O021: E Kurant</b> (University of Haifa, Israel) <i>The role of glial phagocytosis in neurodegeneration</i>
10:15 – 10:30	<b>O002: GA Smith</b> (Vollum Institute, USA) <i>Genetics of Axonal Mitochondrial Biology</i>	<b>O012: K Hens</b> (University of Oxford, UK) <i>Transcriptional control of nutritionally regulated neuropeptides</i>	<b>O022: S Casas-Tinto</b> (Cajal Institute, Spain) <i>Glioblastoma network deplete neuronal wg and induces neurodegeneration</i>
10:30 – 10:45	<b>O003: T Matusek</b> (Institute of Biology Valrose, France) <i>Role of the small GTP-ase Rab8 in the establishment of Hedgehog long-, and short-range activity</i>	<b>O013: R Zinzen</b> (BIMSB, Germany) <i>The Drosophila Embryo at Single Cell Transcriptome Resolution</i>	<b>O023: AIE Faber</b> (University Medical Center Groningen, Netherlands) <i>The Drosophila ovary as a model system to study the neurodegenerative disease Chorea Acanthocytosis</i>
10:45 – 11:00	<b>O004: D Siekhaus</b> (IST Austria, Austria) <i>Drosophila TNF, Eiger, shifts tissue tension to facilitate macrophage invasion in the embryo through the Crumbs complex</i>	<b>O014: P Schlegel</b> (University of Cambridge) <i>Connectomic Analysis of the Adult Olfactory System</i>	<b>O024: JA Navarro</b> (University of Regensburg, Germany) <i>Mitofusin-dependent ER stress mediates degeneration in a Drosophila model of Friedreich's ataxia</i>
11:00 - 11:30	<b>Coffee and Exhibition Viewing</b> <i>Queens Tower Room &amp; Senior Common Room – Sherfield Building</i>		



11:30 - 13:00	<b>S01: Cell biology &amp; biomechanics II</b> <i>Clore Lecture Theatre – Huxley Building</i> <b>Christian Dahmann</b> (TU Dresden, Germany) <b>Yanlan Mao</b> (University College London, UK)	<b>S02: Methods &amp; Omics II</b> <i>Lecture Theatre 308 – Huxley Building</i> <b>Ingrid Lohmann</b> (University of Heidelberg, Germany) <b>Samir Merabet</b> (IGF Lyon, France)	<b>S03: Disease models II</b> <i>Great Hall – Sherfield Building</i> <b>Ross Cagan</b> (Mount Sinai New York, USA) <b>Ody Sibon</b> (University of Groningen, Netherlands) 
11:30 – 11:45	<b>O005: C Dahmann</b> (Technische Universität Dresden, Germany) <i>Mechanics of epithelial folding during Drosophila wing imaginal disc development</i>	<b>O015: A Bluhm</b> (Institute of Molecular Biology, Germany) <i>The developmental proteome of Drosophila melanogaster</i>	<b>O025: A Casali</b> (IRB Barcelona, Spain) <i>Colorectal cancer and secondary tumor growth, a model for metastasis in adult Drosophila</i>
11:45 – 12:00	<b>O006: DJ Toddie-Moore</b> (University of Helsinki, Finland) <i>Cell shape changes couple wing vein morphogenesis with BMP signalling.</i>	<b>O016: MV Frochaux</b> (Lausanne, Switzerland) <i>A comprehensive, proteomic analysis of the Drosophila intestinal immune response</i>	<b>O026: JP Parvy</b> (CRUK, UK) <i>Systemic immunity activation promotes TNF-dependent tumour cell death in Drosophila</i>
12:00 – 12:15	<b>O007: J Solon</b> (Center for Genomic Regulation, Spain) <i>Control of cell shape changes and mechanical tension during epithelial contraction</i>	<b>O017: J Carnesecchi</b> (University of Heidelberg, Germany) <i>Deciphering transcriptional interactive networks, a spatiotemporal “Hoxtory”</i>	<b>O027: H Weavers</b> (University of Bristol, UK) <i>A novel Drosophila model of hemocyte extravasation from pupal veins to sites of inflammation utilising Tre1 and Rho family signalling</i>
12:15 – 12:30	<b>O008: LA Blackie</b> (University College London, UK) <i>Cooperativity between medial myosin contractile machineries enables heterogeneous tissue patterning</i>	<b>O018: IA Droujinine</b> (Harvard Medical School) <i>In vivo proteomics of protein trafficking by organ-specific protein labeling</i>	<b>O028: A Lubojemska</b> (The Francis Crick Institute, UK) <i>Lipid droplets in Drosophila models of kidney disease</i>

12:30 – 12:45	<b>O009: MSY Lam</b> (MRC LMCB, UK) <i>Tissue tension promotes dynamic spindle orientation to the cell long axis in an epithelium</i>	<b>O019: S Merabet</b> (University of Zurich, Switzerland) <i>Generation of a comprehensive UAS ORFeome library for multicolour BiFC in Drosophila</i>	<b>O029: L Guilgur</b> (Instituto Gulbenkian de Ciencia, Portugal) <i>The developing brain is the limiting tissue to ensure normal lifespan after induced aneuploidy in flies.</i>
12:45 – 13:00	<b>O010: LM Escudero</b> (Universidad de Sevilla, Spain) <i>Biophysical constraints drive three-dimensional architecture in curved epithelial organs</i>	<b>O020: T Southall</b> (Imperial College London, UK) <i>In vivo Cell-type specific chromatin accessibility profiling in Drosophila.</i>	<b>O030: U Theoplod</b> (Stockholm University, Sweden) <i>The immune phenotype of three Drosophila leukemia models.</i>
13:00 - 14:00	<b>Lunch and Exhibition Viewing</b> <i>Queens Tower Room &amp; Senior Common Room – Sherfield Building</i>		
14:00 - 16:00	Poster session 1 (all posters displayed, presenters will be at odd numbered posters) <i>Queens Tower Room &amp; Senior Common Room – Sherfield Building</i>		
16:00 - 16:30	<b>Coffee and Exhibition viewing</b> <i>Queens Tower Room &amp; Senior Common Room – Sherfield Building</i>		
16:30 - 18:00	<b>S04: Growth, proliferation &amp; death I</b> <i>Clore Lecture Theatre – Huxley Building</i> <b>Helen McNeill</b> (Lunenfeld- Tanenbaum Research Institute, Canada) <b>Hugo Stocker</b> (ETH Zürich, Switzerland)	<b>S05: Population genetics &amp; evolution I</b> <i>Lecture Theatre 308 – Huxley Building</i> <b>Cassandra Extavour</b> (Harvard University, USA) <b>Alistair McGregor</b> (Oxford Brookes University, UK)	<b>S06: Neural development, circuits &amp; behaviour I</b> <i>Great Hall – Sherfield Building</i> <b>Dietmar Schmucker</b> (VIB Leuven, Belgium) <b>Scott Waddell</b> (University of Oxford, UK)



16:30 – 16:45	<p><b>O031: SS Grewal</b> (University of Calgary, Canada)  <i>Ras/ERK-signalling promotes tRNA synthesis and growth via the RNA polymerase III repressor Maf1 in Drosophila</i></p>	<p><b>O041: A Matamoro-Vidal</b> (Institut Jacques Monod, France)  <i>Evolution and robustness of the bristle pattern in Drosophila.</i></p>	<p><b>O051: D Schmucker</b> (Neuronal Wiring Lab, Belgium)  <i>Molecular Mechanisms of Neurite Branching and Central Synapse Formation</i></p>
16:45 – 17:00	<p><b>O032: F Hamaratoglu</b> (University of Lausanne, Switzerland)  <i>Transcriptional output of Ras signalling is under Hippo control.</i></p>	<p><b>O042: S Kittelmann</b> (Oxford Brookes University, UK)  <i>Gene regulatory networks evolve at different nodes depending on developmental context</i></p>	<p><b>O052: R Sousa-Nunes</b> (King's College London, UK)  <i>In vivo titration of the transcription factor Prospero can expand number of integrated functional neurons in the absence of tumourigenesis</i></p>
17:00 – 17:15	<p><b>O033: Y Jiang</b> (ETH Zurich, Switzerland)  <i>Suppression of tumor growth by steroid hormone induced microRNA let-7 in Drosophila</i></p>	<p><b>O043: MD Santos Nunes</b> (Oxford Brookes University, UK)  <i>A tail with two ends: Contrasting development and evolution in two male genital structures</i></p>	<p><b>O053: A Petzold</b> (Imperial College London, UK)  <i>Allnighter: a novel regulator of the sleep homeostat</i></p>
17:15 – 17:30	<p><b>O034: F Juge</b> (Institute of Molecular Genetics of Montpellier, France)  <i>Cell competition induced by depletion of a splicing factor.</i></p>	<p><b>O044: H Okada</b> (Institute of Molecular Systems Biology, Switzerland)  <i>Proteome-Wide Association Studies Identify Biochemical Modules Associated with a Wing-Size Phenotype</i></p>	<p><b>O054: M Landgraf</b> (University of Cambridge, UK)  <i>Reactive Oxygen Species Regulate Activity-Dependent Synaptic Structural Plasticity</i></p>

17:30 – 17:45	<b>O035: E Arama</b> (Weizmann Institute of Science, Israel) <i>Caspases maintain tissue integrity by an apoptosis-independent inhibition of cell migration</i>	<b>O045: J Gonzalez</b> (Institute of Evolutionary Biology (CSIC-UPF), Spain) <i>Elucidating the role of transposable element-induced mutations in <i>Drosophila melanogaster</i> immune response</i>	<b>O055: M Schlichting</b> (Brandeis University, USA) <i>Integration of light intensity information into the clock neuron network of <i>Drosophila melanogaster</i>.</i>
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17:45 – 18:00	<b>O036: A Meinander</b> (Åbo Akademi University, Finland) <i>Caspase-mediated control of inflammatory signalling and intestinal inflammation</i>	<b>O046: ML Lirakis</b> ( VetMedUni, Austria) <i>Redefining reproductive dormancy in <i>Drosophila</i></i>	<b>O056: DW Williams</b> (King’s College London, United Kingdom) <i>Do synapses act as bolts during early development? – uncovering the molecular mechanisms of complex arborisation growth in <i>Drosophila</i>.</i>
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18:10 - 19:00 **Plenary 4: The foreign within: the *Drosophila*-*Spiroplasma* interaction as a model of insect endosymbiosis**  
*Great Hall – Sherfield Building*  
 Bruno Lemaitre (École polytechnique fédérale de Lausanne, Switzerland)

19:00 - 20:00 *Poster session 1 continued & Drinks*  
*Queens Tower Room & Senior Common Room – Sherfield Building*

**Sunday 24 September 2017**

09:00 -09:50 **Plenary 5: Mechanical tension regulates endocytosis mediated turnover of E-Cadherin**  
*Great Hall – Sherfield Building*  
 Suzanne Eaton (Max Planck Institute of Molecular Cell Biology and Genetics, Germany)

10:00 - 11:00	<b>S04: Growth, proliferation &amp; death II</b>	<b>S05: Population genetics &amp; evolution II</b> <i>Lecture Theatre 308 – Huxley Building</i> <b>Cassandra Extavour</b>	<b>S06: Neural development, circuits &amp; behaviour II</b> <i>Great Hall – Sherfield Building</i>
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	<p><i>Clare Lecture Theatre – Huxley Building</i></p> <p><b>Helen McNeill</b> (Lunenfeld- Tanenbaum Research Institute, Canada)</p> <p><b>Hugo Stocker</b> (ETH Zürich, Switzerland)</p>	<p>(Harvard University, USA)</p> <p><b>Alistair McGregor</b> (Oxford Brookes University, UK)</p>	<p><b>Dietmar Schmucker</b> (VIB Leuven, Belgium)</p> <p><b>Scott Waddell</b> (University of Oxford, UK)</p>
10:00 – 10:15	<p><b>O037: R Ziukaite</b> (The Francis Crick Institute, UK) <i>Separable control of growth and patterning by Decapentaplegic (Dpp) in Drosophila wing precursors</i></p>	<p><b>O047: AB Leitao</b> (Cambridge University, UK) <i>Experimental evolution to parasitoid wasp resistance selects two distinct phenotypes in the close related species D.melanogaster and D.simulans</i></p>	<p><b>O057:G Li</b> (University of Birmingham, UK) <i>Toll receptors underlie structural brain plasticity in Drosophila</i></p>
10:15 – 10:30	<p><b>O038: L Barrio</b> (Institute of Research in Biomedicine, Spain) <i>Boundary Dpp promotes growth of medial and lateral regions of the Drosophila wing</i></p>	<p><b>O048: M Litovchenko</b> (EPFL, Switzerland) <i>Genetic variation-mediated inference of tissue-specific circadian gene regulatory networks in Drosophila melanogaster.</i></p>	<p><b>O058: CB Wit</b> (Freie Universität Berlin, Germany) <i>Targeting without a target: How postsynaptic neurons guide photoreceptors in Drosophila visual map formation</i></p>
10:30 – 10:45	<p><b>O039: A Sawala</b> (The Francis Crick Institute, United Kingdom) <i>The sex of specific neurons controls female body growth</i></p>	<p><b>O049: JY Kao</b> (New York University, USA) <i>Using position effect variegation in Drosophila melanogaster to investigate cryptic genetic variation</i></p>	<p><b>O059: VM Fernandes</b> (New York University, USA) <i>Glia relay differentiation cues to coordinate neuronal development in the visual system</i></p>
10:45 – 11:00	<p><b>O040: ME Meschi</b> (Institut de Biologie Valrose, France) <i>Identification of a novel neural circuit controlling Dilp secretion and systemic growth according to nutrients</i></p>	<p><b>O050: M Watada</b> (Ehime University, Japan) <i>The revision of Sophophora based on molecular and morphological analyses: establishment of a new species group and species subgroups</i></p>	<p><b>O060: S Waddell</b> (University of Oxford, UK) <i>Re-evaluation of learned information reveals a role for opponency in the Drosophila dopaminergic reinforcement system</i></p>
11:00 - 11:30	<p><b>Coffee and Exhibition viewing</b></p>		

*Queens Tower Room & Senior Common Room – Sherfield Building*

11:30 - 13:00	<p><b>S07: Morphogenesis &amp; organogenesis I</b>  <i>Great Hall – Sherfield Building</i>  <b>Jordi Casanova</b>                  (IRB Barcelona)  <b>Talila Volk</b>                  (Weizmann Institute)</p>	<p><b>S08: Transcription &amp; chromatin I</b>  <b>Mounia Lagha</b>  <i>Lecture Theatre 308 – Huxley Building</i>                  (IGM Montpellier)  <b>Jürg Müller</b>                  (MPI Martinsried)</p>	<p><b>S09: Stem cells &amp; regeneration I</b>  <i>Clore Lecture Theatre – Huxley Building</i>  <b>Cedric Maurange</b>                  (IBD Marseille)  <b>Florenci Serras</b>                  (University of Barcelona)</p>
11:30 – 11:45	<p><b>O061: M Inaki</b> (Osaka University, Japan)  <i>Chiral cell sliding drives left-right asymmetric organ twisting.</i></p>	<p><b>O071: K Yuan</b> (UCSF, USA)  <i>Interphase-arrested Drosophila embryos initiate Mid-Blastula Transition without reaching the critical nuclear-cytoplasmic ratio</i></p>	<p><b>O081: L Otsuki</b> (University of Cambridge, United Kingdom)  <i>Cell cycle heterogeneity during quiescence reveals neural stem cells with distinct activation timings</i></p>
11:45 – 12:00	<p><b>O062: RF Walther</b> (University College London, UK)  <i>Cdc42 controls epithelial polarity by coordinating cortical polarization and plasma membrane specialization through Par6</i></p>	<p><b>O072: ML Lagha</b> (IGMM, France)  <i>Transcriptional Memory in the Drosophila Embryo</i></p>	<p><b>O082: C Maurange</b> (Aix-Marseille University, France)  <i>Regulation of neural stem cell self-renewal by antagonistic RNA-binding proteins during development and tumorigenesis</i></p>
12:00 – 12:15	<p><b>O063: M Llimargas</b> (IBMB, Spain)  <i>Egfr controls tracheal tube elongation by intracellular trafficking regulation</i></p>	<p><b>O073: S Krueger</b> (BIMSB, Germany)  <i>Resolving Enhancer-Protein Interactions with Spatio-Temporal Specificity</i></p>	<p><b>O083: K Brückner</b> (University of California San Francisco, USA)  <i>Regulation of blood cell plasticity by Activin-<math>\beta</math> signaling and sensory neuron activity</i></p>
12:15 – 12:30	<p><b>O064: ML Spletter</b> (Max Planck Institute of Biochemistry, Germany)  <i>Systematic transcriptomics reveals a biphasic mode of sarcomere assembly in flight muscles regulated by Spalt</i></p>	<p><b>O074: J Mueller</b> (Max-Planck Institute of Biochemistry, Germany)  <i>Molecular mechanisms of the Polycomb system</i></p>	<p><b>O084: H Toledano</b> (University of Haifa, Israel)  <i>microRNA miR-9a modulates ageing of Drosophila germline stem cells by limiting the expression of N-cadherin</i></p>

12:30 – 12:45	<b>O065: T Volk</b> (Weizmann Institute, Israel) <i>Epigenetic modifications and DNA replication in striated muscle rely on cytoskeleton-nucleoskeleton coupling</i>	<b>O075: YB Schwatz</b> (Umeå University, Sweden) <i>PRC1 or PRC2: who leads the Polycomb repression game?</i>	<b>O085: A Puig</b> (Cardiff University, UK) <i>Partner-swapping in a network of bHLH factors controls stemness and bipotential differentiation in the intestine</i>
12:45 – 13:00	<b>O066: S Córdoba</b> (CBMSO- Universidad Autonoma de Madrid, Spain) <i>Shaping Drosophila leg: morphogenetic mechanisms that sculpt tarsal joints</i>	<b>O076: H White-Cooper</b> (Cardiff University, UK) <i>It's all bollocks!: non-canonical chromatin at testes-specific promoters.</i>	<b>O086: SM Ahmed</b> (DKFZ/ZMBH alliance, Germany) <i>The Drosophila steroid hormone, ecdysone, regulates gut sexual dimorphism by controlling intestinal stem cell proliferation</i>
13:00 - 14:00	<b>Lunch and Exhibition Viewing</b> <i>Queens Tower Room &amp; Senior Common Room – Sherfield Building</i>		
14:00- 16:00	<b>Poster session 2 (all posters displayed, presenters will be at even numbered posters)</b> <i>Queens Tower Room &amp; Senior Common Room – Sherfield Building</i>		
16:00 -16:30	<b>Coffee Break</b> <i>Queens Tower Room &amp; Senior Common Room – Sherfield Building</i>		
17:00 - 18:00	<b>S07: Morphogenesis &amp; organogenesis II</b> <i>The Great Hall – Sherfield Building</i> <b>Jordi Casanova</b> (IRB Barcelona, Spain) <b>Talila Volk</b> (Weizmann Institute, Israel)	<b>S08: Transcription &amp; chromatin II</b> <i>Lecture Theatre 308 – Huxley Building</i> <b>Mounia Lagha</b> (IGM Montpellier, France) <b>Jürg Müller</b> (MPI Martinsried, Germany)	<b>S09: Stem cells &amp; regeneration II</b> <i>Clore Lecture Theatre – Huxley Building</i> <b>Cedric Maurange</b> (IBD Marseille, France) <b>Florenci Serras</b> (University of Barcelona, Spain)
17:00 – 17:15	<b>O067: A Salzberg</b> (Technion-Israel Institute of Technology, Israel) <i>prospero, shaven and dei constitute a regulatory module that controls</i>	<b>O077: M Bienz</b> (Medical Research Council, UK) <i>Wnt-dependent inactivation of Groucho/TLE by the HECT E3 ubiquitin ligase Hyd/UBR5</i>	<b>O087: J Mundorf</b> (University of Cologne, Germany) <i>Ets2lc controls intestinal homeostasis and stress response downstream of JNK signaling</i>

*cell fate diversification within the chordotonal organ lineage*

17:15 – 17:30	<b>O068: NA Dye</b> (Max Planck Institute, Germany) <i>Quantification of cell dynamics during extended growth in tissue explants uncovers novel mechanisms shaping the Drosophila larval wing</i>	<b>O078: MJ Gomez-Lamarca</b> (University of Cambridge, UK) <i>CSL DNA-binding dynamics are a major point of regulation in determining the functional consequences of Notch activation</i>	<b>O088: RJ Tetley</b> (University College London, UK) <i>Wound Edge Fluidity Promotes Epithelial Wound Healing</i>
17:30 – 17:45	<b>O069: M Slaidina</b> (New York University, USA) <i>Identification of genetic pathways regulating female germline stem cell specification.</i>	<b>O079: FX Teixeira</b> (New York University, USA) <i>piRNA-mediated regulation of transposon alternative splicing in soma and germline</i>	<b>O089: R Martin</b> (Centro de Biologia Molecular Severo Ochoa, Spain) <i>Distinct regenerative potential of trunk and appendages of Drosophila mediated by JNK signalling</i>
17:45 – 18:00	<b>O070: J Casanova</b> (Institut de Biologia Molecular de Barcelona, Spain) <i>Cell migration in Drosophila morphogenesis</i>	<b>O080: J Gonzalez</b> (Institute of Evolutionary Biology (CSIC-UPF), Spain) <i>Transposable elements affect the transcriptional regulation of stress response genes</i>	<b>O090: A Cosolo</b> (Center for Biological Systems Analysis, Germany) <i>A JNK-dependent cell cycle arrest in G2 interferes with tissue regeneration</i>
18:10 - 19:00	<b>Plenary 6: Evolution of morphology and egg laying behavior in the fruit pest Drosophila suzukii</b> <i>Great Hall – Sherfield Building</i> Benjamin Prud'homme (Aix-Marseille Université, France)		
19:00 - 20:00	<b>Poster session 2 continued &amp; Drinks</b> <i>Queens Tower Room &amp; Senior Common Room – Sherfield Building</i>		

Monday 25 September 2017

**S10: Signalling I**

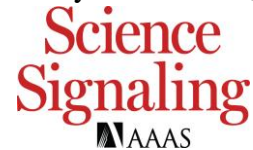
*Clore Lecture Theatre – Huxley Building*

**Hilary Ashe**

(University of Manchester, UK)

**David Strutt**

(University of Sheffield, UK)



**S11: RNA biology I**

*Lecture Theatre 308 – Huxley Building*

**Ilan Davis**

(University of Oxford, UK)

**Henry Krause**

(University of Toronto, UK)

**S12: Physiology & metabolism I**

*Great Hall – Sherfield Building*

**Susumu Hirabayashi**

(Imperial College London, UK)

**Mike O'Connor**

(University of Minnesota, USA)

09:00 – 10:15

09:00 – 09:15

**O091: SG Wilcockson** (University of Manchester, UK)  
*Stem Cell-Niche Interactions in the Drosophila Ovarian Germline*

**O101: H Krause** (University of Toronto, Canada)  
*Genome-wide analysis of lncRNA expression patterns*

**O111: N Arquier** (IBV France)  
*Neuronal Control of Systemic Insulin Sensitivity by Adiponectin Signaling*


09:15 – 09:30

**O092: O Shimmi** (University of Helsinki, Finland)  
*Dynamic 3D tissue architecture directs BMP morphogen signaling during Drosophila wing morphogenesis*

**O102: K Casier** (UPMC, France)  
*Environmentally-induced epigenetic conversion of a piRNA cluster*

**O112: F Bonnay** (IMBA, Austria)  
*Tumor metabolic adaptation in a Drosophila brain tumor model*



09:30 – 09:45	<p><b>O093: D Garcia-Morales</b> (CABD, Spain)  <i>Translating a static signaling source into a dynamic patterning process: Hh signaling in the differentiation of Drosophila ocellus.</i></p>	<p><b>O103: C Meignin</b> (Universitat de Strasbourg, France)  <i>RACK1: ribosomal protein involved in viral and selective mRNA translation</i></p>	<p><b>O113: Z Carvalho-Santos</b> (Champalimaud Centre for the Unknown, Portugal)  <i>Sugar appetite is controlled by the metabolic program of germline cells</i></p>
09:45 – 10:00	<p><b>O094: A Veraksa</b> (University of Massachusetts, USA)  <i><math>\beta</math>-arrestin Kurtz controls epithelial morphogenesis via downregulation of the Fog-Mist signaling pathway</i></p>	<p><b>O104: HR Shcherbata</b> (Max Plack Institute for biophysical chemistry, Germany)  <i>EMBO Young Investigator Lecture: Stress-dependent miRNA-based regulation of Rbfox1/A2bp1 promotes RNP granule formation and cell survival</i></p>	<p><b>O114: T Fernando</b> (Francis Crick Institute, UK)  <i>Metabolic analysis of critical weight</i></p>
			
10:00 – 10:15	<p><b>O095: J Bacigalupo</b> (Universidad de Chile, Chile)  <i>Studies of the light-transduction signaling cascade in excised inside-out patches from the photosensitive membrane of Drosophila melanogaster photoreceptors</i></p>	<p><b>O105: DG Dimitrova</b> (University Pierre and Curie, France)  <i>RNA methyltransferase mutant links tRNA fra small non-coding RNAs</i></p>	<p><b>O115: D Martin</b> (Institute for Research in Biomedicine, Spain)  <i>Local Juvenile Hormone activity regulates gut homeostasis and tumor growth in adult Drosophila</i></p>

10:15-10.45 **Coffee**  
*Queens Tower Room & Senior Common Room – Sherfield Building*

10:45 - 12:00	<p><b>S10: Signalling II</b>  <i>Clore Lecture Theatre – Huxley Building</i>  <b>Hilary Ashe</b>            (University of Manchester, UK)  <b>David Strutt</b>            (University of Sheffield, UK)</p> 	<p><b>S11: RNA biology II</b>  <i>Lecture Theatre 308 – Huxley Building</i>  <b>Ilan Davis</b>            (University of Oxford, UK)  <b>Henry Krause</b>            (University of Toronto, Canada)</p>	<p><b>S12: Physiology &amp; metabolism II</b>  <i>Great Hall – Sherfield Building</i>  <b>Susumu Hirabayashi</b>            (Imperial College London, UK)  <b>Mike O'Connor</b>            (University of Minnesota, USA)</p>
10:45 – 11:00	<p><b>O096: D Strutt</b> (University of Sheffield, UK)  <i>Dissecting core planar polarity pathway function using acute loss- and gain-of-function tools</i></p>	<p><b>O106: I Davis</b> (University of Oxford, UK)  <i>The role of post-transcriptional regulation in Drosophila neurogenesis</i></p>	<p><b>O116: V Hattori</b> (Kyoto University, Japan)  <i>Systemic signaling for distinct adaptive responses to nutrient balances between generalist and specialist species</i></p>
11:00 – 11:15	<p><b>O097: A Cammarata-Mouchtouris</b> (Institut de Biologie Moleculaire et Cellulaire, France)  <i>A set of immune-induced negative regulators orchestrate Drosophila Toll pathway shutdown</i></p>	<p><b>O107: V Hilgers</b> (Max-Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany)  <i>Ultra-long 3' UTRs in the nervous system: Mechanism and function</i></p>	<p><b>O117: V Hietakangas</b> (University of Helsinki, Finland)  <i>ERK7 controls tissue growth and lipid homeostasis to maintain starvation resistance in vivo</i></p>
11:15 – 11:30	<p><b>O098: M Trylinski</b> (Institut Pasteur, France)  <i>Intra-lineage fate decisions involve activation of Notch receptors basal to the midbody in Drosophila sensory organ precursor cells</i></p>	<p><b>O108: SF Newbury</b> (University of Sussex, UK)  <i>Novel roles for ribonucleases in growth and development.</i></p>	<p><b>O118: E Ramond</b> (École Polytechnique Fédérale de Lausanne, Switzerland)  <i>Regulation of Drosophila hemocyte number and sessility by an adipokine</i></p>

11:30 – 11:45	<p><b>O099: K Bellec</b> (Institut de génétique et développement de Rennes, France)  <i>The Rab-GEF Mss4 controls Rab8 and regulates the polarized trafficking of the Notch interactor Sanpodo in Drosophila</i></p>	<p><b>O109: M Soller</b> (University of Birmingham, UK)  <i>m6A mRNA methylation regulates alternative splicing in Drosophila sex determination</i></p>	<p><b>O119: S Redhai</b> (Imperial College London, UK)  <i>An intestinal zinc sensor couples nutrient availability with developmental timing</i></p>
11:45 – 12:00	<p><b>O100: JV Beira</b> (ETH Zurich, Switzerland)  <i>Integrating signalling inputs with chromatin regulators to direct tissue regeneration or tumorigenesis</i></p>	<p><b>O110: ZD Durdevic</b> (European Molecular Biology Laboratory, Germany)  <i>Maternally transmitted transposon RNAs cause genome instability in progeny Drosophila embryos</i></p>	<p><b>O120: N Perrimon</b> (Harvard Medical School, USA)  <i>Downregulation of mTOR requires an amino-acid</i></p>
12:10 – 13:00	<p><b>Plenary 7: Biology of bed-time: understanding circadian rhythms and sleep</b>  <i>Great Hall – Sherfield Building</i>  Amita Sehgal (University of Pennsylvania, US)</p>		
13:00- 13:10	<p>Closing remarks  <i>Great Hall – Sherfield Building</i></p>		
13:10	<p>End of conference</p>		