

Tuesday 3rd September

Themes:

- Developmental and cellular neuroscience
- Brain Homeostasis & Metabolism
- Brain disease, injury, ageing
- Gene expression and molecular neuroscience



| Number | First Name | Last Name | Paper Title |
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| P26 | Theodóra Björk | Ægisdóttir | Molecular and structural effect of ubiquitous proteins of the AAA+ ATPs family at the Neuromuscular Junction |
| P82 | Francesco | Agostini | The Parkinson Disease-associated protein DJ-1 participates in energy metabolism by modulating mitochondrial and autophagic activity. |
| P85 | Kayomavua | Akpobaro | Drosophila as a model to test risk factors for Late-Onset Alzheimer's Disease |
| P67 | Seham | Almalki | Exploring the Role of DNA Damage Response in Neurodegeneration |
| P6 | Claudio R. | Alonso | microRNA regulation of the emergence of embryonic movement in Drosophila |
| P86 | Leonardo | Amadio | Characterising genetic modifiers of Alzheimer's Disease pathology in Drosophila. |
| P105 | Gabriel | Aughey | Inducing cell-cycle gene expression in post-mitotic neurons perturbs locomotion and sleep in Drosophila |
| P76 | Charlotte | Auth | Female reproductive senescence can be prevented by manipulating a conserved neurohormonal pathway in Drosophila |
| P68 | Marlene | Barth | Cellular mechanisms underlying progressive neurodegeneration: Insights from the Drosophila neuromuscular junction. |
| P40 | Ruchira | Basu | Adaptive modulation of glial lipid metabolism during aging. |
| P113 | Chiara | Bettini | Understanding circadian rhythms using natural genetic polymorphisms |
| P42 | Marco | Bisaglia | α -Synuclein and mitochondria interplay in ferroptosis: Implications for Parkinson's Disease |
| P2 | Zofia | Borzyszkowska | Myosin VI is present during development of Drosophila brain |
| P5 | Adam | Bradlaugh | Insights into the mechanism of non-canonical magnetoreception mediated by Cryptochrome |
| P91 | Carlo | Breda | Loss of dRAB39 causes Parkinson's associated phenotypes in a Drosophila |
| P57 | Georgia | Brown | Drosophila DEAD-box protein Belle as a regulator of RNP granule formation and pathogenic aggregation |
| P20 | Pierre | Cattenoz | Cholinergic neurons modulate macrophage homeostasis in the Drosophila larva |
| P37 | Elizabeth | Connolly | Investigating the role of Toll-9 in coupling environmental inputs with systemic responses |
| P4 | Cemre | Coskun | Dendritic growth of motion-sensitive T4/T5 neurons of Drosophila is affected by knocking down Receptor Tyrosine Kinase Alk |
| P13 | Bramwell | Coulson | Are neuronal homeostatic set points encoded during critical periods of development? |
| P65 | Rituparna | Das | Eyeing repeat expansion neurodegeneration through flies: identifying novel role of RNA binding proteins in Spinocerebellar ataxia 8 disease |
| P7 | Matthew | Davies | Shot Cooperates with Microtubule Organising Centre Components to Promote Dendritic Microtubule Orientation and Pruning |
| P31 | Jacob | Davies | Increased Temperature During an Embryonic Critical Period Induces Heterogeneous Responses within the Drosophila Larval Locomotor Circuit |
| P1 | Sarah | Doran | Circadian control in the timing of sensitive periods during Drosophila larval neuronal development. |
| P90 | Karolina | Doubkova | Identifying hallmarks of early axonal vulnerability in a model of sporadic neurodegeneration using the Drosophila visual system |
| P55 | Ella | Dunn | Exploring neuromuscular function in Drosophila models of ALS |
| P63 | Alex | Dyson | MEK Inhibition as a Potential Therapeutic Strategy for the Non-Tumour Manifestations of Neurofibromatosis Type 1 (NF1) |
| P107 | Miranda | Dyson | A Versatile Toolkit for Chemical Connectome Mapping and Manipulation of Neurotransmitter and Neuromodulator Receptors |
| P89 | Kazi Ishrak | Faiyaz | Circadian Control of Alzheimer's Disease in Drosophila melanogaster |
| P22 | Mohammad | Farhan | Sexually dimorphic neuronal development, behaviors, and gene expression in Chd1-modulated Drosophila |
| P43 | Dominique | Ferrandon | The Drosophila host defense against Aspergillus fumigatus involves at least 50 genes, most of which are functionally required in the nervous system |
| P79 | Florian | Fischer | The sodium channel blockers lamotrigine and lacosamide suppress seizure-like activity in the bang-sensitive mutant easily shocked[2F] |
| P35 | Adrien | Franchet | Glutamine catabolism in perineurial glia fuels neuroblast proliferation during brain sparing |
| P66 | Théo | Gauvrit | Genetic and Molecular Characterization of a Cluster of Three snoRNA Involved in Aging, Longevity, and Neurodegeneration in Drosophila. |
| P116 | Angela | Giangrande | Neural cell identity is defined by functional signatures and by stage-specific chromatin features involving the DNA-repair Rad50 protein |
| P36 | Katie | Greenin-whitehead | Ectopic sodium channel expression paradoxically decreases excitability of Drosophila Kenyon cells |
| P81 | Emilia | Gregory | Investigating the neuronal functions of putative tau interactors |
| P98 | Alexandra | Grossjohann | Evaluating Octopamine Function in Drosophila Larvae: Insights from Molecular and Behavioral Studies on Trojan Exon Lines |
| P56 | Maëlwen | Hamon | An invertebrate model to identify virulence and neuro-damaging factors during pathogenic infection by Toxoplasma gondii |

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| P78 | Tadros | Hana | Developmental and physiological impacts of pathogenic human huntingtin protein in the nervous system |
| P61 | James | Hodge | Determining the mechanism of action of PTK2B tyrosine kinase (Drosophila Focal Adhesion Kinase (FAK)) in Alzheimer's disease |
| P71 | Mariam | Huertas Radi | Influence of Circadian Rhythms on Drosophila Seizure Activity. |
| P16 | Saline | Jabre | Responses of brain tumors to mechanical stress |
| P11 | Gabor | Juhász | Mechanisms and neurodevelopmental roles of an autophagy-related phagocytic degradation pathway in glia |
| P60 | Robin | Karge | Functional Analysis of Genetic Epilepsy Variants in AP2M1 and STXBP1 using Drosophila Models |
| P48 | Steffen | Kautzmann | Differential interaction of wrapping glia with sensory and motor axons in Drosophila larvae |
| P110 | Richard | Kelly | Exploring the Neurodevelopmental Impact of KDM5 Loss in Dopamine Neurons |
| P115 | Carl Sander | Kiir | Genome Wide Characterization of Neuronal Activity-Dependent Transcription in Drosophila |
| P88 | Sigrid | Kirss | α -lipoic acid as potential copper regulator in case of Alzheimer's disease |
| P34 | Andres | Köhler | The impact of the brain's metabolic status on neuronal morphophysiology |
| P100 | James | Kramer | A mushroom body memory transcriptome time course reveals essential long term memory transcription factors. |
| P18 | Shubham | Kumar | Investigation of Golgi Outposts in C4da Sensory Neurons of Drosophila melanogaster: Pitfalls and New Approaches |
| P15 | Inês | Lago-Baldaia | Are different astrocyte morphologies dictated by the distinct neuron-types they associate with? |
| P24 | Nicolas | Laville | Do neural stem cells communicate with each other in the developing Drosophila central nervous system? |
| P10 | Lena | Lion | Casein kinase 2 controls functional and structural synaptic plasticity at the Drosophila NMJ |
| P50 | Simon | Lowe | BK channels modulate a critical period for motor development in Drosophila |
| P108 | Amira | Mahoney | Understanding link between KDM5C-mediated transcription and learning and memory |
| P104 | Isabella | Maiellaro | Mapping the nanoscale organisation of cAMP signalosome at synapses in Drosophila motor neurons |
| P77 | Sameekshya | Mainali | BRAIN INNATE IMMUNE ACTIVATION FOLLOWING BACTERIAL INFECTION IN DROSOPHILA MELANOGASTER |
| P49 | Tulika | Malik | Synaptic Defects of FUS Model of ALS in Adult Motor Neurons |
| P47 | Amaya | Malmalabaduge | Oxidative stress promotes axonal atrophy through alterations in microtubules and EB1 function |
| P21 | Peter | M'Angale | Structure of virus-like Copia capsid hints at structural antagonism with dArc1 to regulate synaptic plasticity. |
| P14 | Federica | Mangione | Architecture of the Drosophila Tactile Bristle Mechanoreceptor |
| P101 | Gérard | Maniere | A SLC7A amino-acid transporter, MINIDISCS, is involved in amino acid-dependent neuronal activity in Drosophila melanogaster |
| P53 | Jean-René | Martin | The snoRNA-jouvence: from Fly longevity to Human rejuvenation and cancer therapy. |
| P93 | Olivia | McGinnis | Transcriptomic identity and diversity of ring neurons |
| P69 | Veronique | Monnier | Overexpression of Tspo in glial cells extends Drosophila lifespan and is protective in a model of Friedreich Ataxia |
| P33 | Sara | Monticelli | NimA promotes glial barriers in the fly nervous system |
| P114 | Anna | Munro | Non-canonical radical pair magnetosensitivity in Drosophila |
| P28 | Melinda | Nabavi | Robustness of Early Pattern Formation in the Drosophila Visual Map |
| P30 | Anne Sophie | Oepen | Reorganization of the dopamine neuron network during the pupal metamorphosis of Drosophila |
| P12 | Kiel | Ormerod | Mechanisms of Neuropeptide sorting, trafficking, capture and release |
| P111 | Eymen Ece | Oruc | Influence of glial membrane proteins on axonal conductance velocity |
| P27 | Melisa | Ozmen | Regulating Role of the Cellular Environment on T4 Dendrite Development |
| P80 | Angelina | Palacios-Munoz | Mutations in tao, the homologue of TAOK1 autism candidate gene, leads to autism-like behaviors in adult Drosophila melanogaster |
| P23 | Benjamín | Pérez Urzúa | A Novel Microexon Regulator of Axon Guidance in Drosophila melanogaster |
| P9 | Astrid | Petzoldt | Molecular insights into biogenesis and transport of presynaptic transport vesicles |
| P99 | Clare | Pilgrim | Virtual Fly Brain - Integrating scRNAseq Data for Advanced Drosophila Neurobiology |
| P41 | Sara | Pina-Flores | The role of physical activity on brain health. |
| P83 | Amy | Preston | Functional characterisation of Alzheimer's risk gene choline transporter-like protein 2 (CTL2/SLC44A2) in Drosophila |
| P92 | Raymond | Price | Using Complex Behaviour to Investigate Functional Loss in Drosophila Models of aging and neurodegeneration |
| P59 | Miguel | Ramírez Moreno | A novel screening method for Tau toxicity using the Drosophila wing disc |
| P103 | Thomas | Ravenscroft | Filling in the gaps of the Drosophila connectome: genetic strategies to locate electrical synapses and neuropeptides. |

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| P3 | Rebekah | Ricquebourg | Spatial factors affect temporal patterning of neuronal stem cells to regulate neuronal diversity |
| P72 | Anabel | Rodriguez Simões | A glia-derived cytokine regulating proliferation. |
| P19 | Ezio | Rosato | Neuronal progenitors suffer genotoxic stress in <i>Drosophila per0</i> mutants |
| P109 | Heidi | Roth | Skylight navigation across insects - Molecular changes in homothorax locus shape the <i>Drosophila</i> DRA into an evolutionary novelty of higher Diptera. |
| P32 | Sebastian | Rumpf | mRNA export defects cause neurite pruning defects |
| P39 | Emily | Rywelski | morgoth encodes a putative monoamine oxidase (MAO) involved in degradation of biogenic amines in the <i>Drosophila</i> central nervous system |
| P97 | Usama | Saeed | Neuroendocrine Signaling Regulates the Glucagon-like Adipokinetic Hormone (AKH) Release in Maintaining Metabolic Homeostasis in <i>Drosophila melanogaster</i> |
| P95 | Cristiana | Santos | Fbxo42-mediated ubiquitylation of Ataxin-2 modulates Xbp1 signaling |
| P44 | Bibiana | Sgalletta | Functional characterization of C19orf12 in the context of mitochondrial membrane protein-associated neurodegeneration |
| P51 | Deepanshu | Singh | Fungi activate Toll-1 dependent immune evasion to induce cell loss in the host brain |
| P17 | Jack | Smith | GABAergic Signalling Regulates the Opening of a Critical Period of Neural Development during <i>Drosophila</i> Embryogenesis |
| P74 | Sophie | Smith | Modelling the Role of L-type Voltage Gated Calcium Channel Signaling (CACNA1C) in Epilepsy and Alzheimer's disease |
| P45 | Tora | Smulders-Srinivasan | Mitochondrial electron transport chain defects rescue Parkinson's disease phenotypes in <i>Drosophila melanogaster</i> models. |
| P87 | Mathilde | Solyga | Reorganization of the F-actin cytoskeleton in aging <i>Drosophila</i> neurons |
| P64 | Jasmine | Speranza | Altered gut physiology and microbiota in a <i>Drosophila</i> model of Huntington's disease |
| P106 | Lena Sarah | Stanisławczyk | The role of Rab3 and RabX2 in TRPL recycling within <i>Drosophila</i> photoreceptors |
| P52 | Aron | Szabo | Impairment of LC3-associated phagocytosis triggers innate immune responses in glia leading to neurodegeneration |
| P96 | Suguru | Takagi | Tuning beyond receptors: molecular mechanisms of divergent olfactory acid responses |
| P54 | Lucie | Tkacova | Understanding the interplay between age-associated mitochondrial changes. |
| P75 | Simona | Totaro | In vivo effects of pharmacologic and genetic PARP inhibition on Cohesin-mediated brain phenotypes using <i>Drosophila melanogaster</i> |
| P25 | Chiakang | Tsao | Exploring the Impact of Wrapping Glia Endoreplication on Axon Wrapping |
| P29 | Joachim | Urban | Innuclear relocation of gene loci linked to developmental competence of neural stem cells of <i>Drosophila</i> is dependent on nuclear β -actin activity |
| P84 | Boyd | van Reijmersdal | Finding and treating hidden RASopathies among <i>Drosophila</i> models with habituation deficits |
| P70 | Virag | Vincze | Autophagy fine-tunes Stat92E activity by regulating Su(var)2-10 during glial activation in <i>Drosophila</i> |
| P94 | Francesca | Viscido | Maintenance of neuronal functionality in an aging organism: the role of Arrestin2 in maintaining the mutually exclusive Rhodopsin5/Rhodopsin6 expression in the adult <i>Drosophila</i> retina. |
| P8 | Neele | Wolterhoff | Live observation of developmental choices: competitive column selection predetermines synaptic partnerships of <i>Drosophila</i> Dm8 neurons |
| P38 | Sanjay Ramnarayan | Yadav | The role of ITP signaling in the energy metabolism of <i>Drosophila melanogaster</i> . |
| P46 | Xiaojing | Yue | Analysis of gut-brain interactions in transgenic <i>Drosophila</i> models of Parkinson's disease |
| P58 | Li | Zhang | Metabolic Reprogramming and Mitochondrial Dysfunction in GDAP1-Related Charcot-Marie-Tooth Disease: Insights from a <i>Drosophila</i> Model |
| P73 | Yongrui | Zhang | A novel peptide-based Tau aggregation inhibitor as a potential therapeutic for Alzheimer's disease and other Tauopathies |
| P112 | Youchong | Zhang | Subcellular localization of proteins in <i>Drosophila</i> dopaminergic neurons |
| P62 | Anna | Ziegler | High C16-Ceramide levels affect neuronal mitochondria in vivo |
| P102 | Petra | zur Lage | The specification of functionally distinct chordotonal neuron populations in the fly's 'inner ear', Johnston's organ |