

Thursday 5th September



Themes:

- Neural circuits & behaviour
- Plasticity and Remodelling

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239	Yulia	Akbergenova	Role of neuronal activity and BMP signaling in synapse formation at Drosophila larval neuromuscular junctions.
120	Mehran	Akhtar	Lovit protein in photoreceptors regulates sleep and circadian rhythm in Drosophila
126	Claudio R.	Alonso	The role of region-specific mechanosensory stimuli in postural control behaviour
190	Nigel	Atkinson	NF-κB signaling at the synapse: Identification of protein pairing partners using TurboID and AlphaFold
150	Isabella S.	Balles	Towards establishing a cocaine preference model in Drosophila melanogaster
155	Leticia	Batista	Impact of Developmental Temperature on Neural Circuit Assembly and Behavior
206	Jean-Paul	Berwick	Astrocyte-to-neuron H <sub>2</sub> O <sub>2</sub> Signaling in Memory to Alzheimer's Synaptopathy
172	Devika	Bodas	Balancing Risk and Reward: Neural Basis of Action-selection in Flies
189	Marina	Boon	Individual Drosophila show stable sensory processing "personalities": a platform to study inter-individual variability in Autism
191	Tariq	Brown	Neural Dynamics Underlying the Formation and Retrieval of Alcohol Memories in Drosophila
207	Agustina	Bruno-Vignolo	Unraveling the roles of the chloride channel ClC-a in Drosophila sleep neurons
173	Edgar	Buhl	Decoding the fly's circadian membrane clock
192	Laura	Burnett	Connectome-guided search for novel direction-selective cells in the Drosophila visual system.
203	Jorge	Campusano	The transglutaminase enzyme contributes to brain development and function
202	Martina	Canova	Neural Circuits Underpinning state-dependent odor-taste Integration
234	Yannick	Carrier	Biased cell adhesion organizes the Drosophila visual motion integration circuit
217	Ivy Chi Wai	Chan	Odor generalisation versus discrimination driven by a connectivity bias for different ethological groups of odors in the Drosophila Mushroom Body
236	Keagan	Chronister	Octopamine induces rapid Unc13A activation for presynaptic potentiation
121	Typhaine	Comyn	PKCδ is an activator of neuronal mitochondrial metabolism that mediates the spacing effect on memory consolidation
139	Rob	Court	Virtual Fly Brain - Integrating Drosophila melanogaster nervous system Split-GAL4 driver lines with connectomic and transcriptomic data
243	Tom	Cozens	Morphological adaptations to excess activity in single Drosophila Kenyon cells
230	Anthony	Crown	Neural circuit control of steering movements in walking Drosophila
152	Kevin	Cury	Recognition and Avoidance of Predators in Drosophila
222	Ricardo	Custódio	Role of leg load feedback in fruit fly adaptive walking
161	Shamik	DasGupta	Does the Fly Brain Do Geometry?
177	Ilaria	D'atri	Memory systems in path integration
210	Anthony	Defert	Sex, fights and fruit flies: mating strategy in hyperaggressive Drosophila melanogaster
127	Fiona	Defty	A Brave New Virtual World - A Novel Virtual Reality Set-Up for the Study of Drosophila Behaviour
124	Şevval	Demirci	State-Dependent Modulation of Positive and Negative Memories
168	Jose	Duhart	Glycinergic modulation of circadian excitability in Drosophila clock neurons.
238	Jean-Maurice	Dura	The two roles of Orion on glia function during mushroom body neuronal remodelling
148	Erica	Ehrhardt	Anatomy of somatosensory neurons in the adult central nervous system at single-cell resolution
140	Anatoli	Ender	Pacemaker currents of R5 neurons and their role in sensory filtering in Drosophila melanogaster
117	James	Evans	Investigating activity-regulated genes required for long-term memory
166	Tania	Fernandez d.V. Alquicira	Cellular and molecular network mechanisms of memory consolidation
193	Ana	Filošević Vujnović	Isolation and Monoamine Levels: Impact on Methamphetamine Preferential Consumption in Drosophila melanogaster
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223	Lei	Guo	Stress, not sleep deprivation, affects the accumulation of reactive oxygen species in the gut
220	Md Amit	Hasan	Mapping sensorimotor circuit underlying defensive actions in Drosophila larva
136	Michael-Marcel	Heim	Dopamine modulates the activity of dopaminergic neurons involved in feeding
164	Wolf	Huetteroth	Voluntary passive movement – do flies play?
130	Yu-Chien	Hung	A novel neural pathway linking visual input and sleep status
128	Ritsuki	Hyodo	Novel image processing technique for the analysis of activity in Drosophila melanogaster
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214	Guillaume	Isabel	Long-term memory of mate copying in fruit flies is localized in mushroom bodies
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170	Caleb	Larnerd	Memory-Like State Encoding in Rapid and Chronic Ethanol Tolerance
167	Lara	Lederle	Circuit mechanisms controlling state-dependent food intake in Drosophila
138	Nicole	Lee	Relation between valence and locomotor performance using well established optogenetics in Drosophila Melanogaster
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195	Utsab	Majumder	Distinct features of dopaminergic neuromodulation of motivation-dependent behavior in Drosophila
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184	Liria	Masuda-Nakagawa	MBON-a1/a2 neurons are odor-concentration-dependent output neurons of the mushroom bodies, and affect odor discrimination learning in larval Drosophila
145	Gabriella	Mazzotta	Daily changes in the mitochondria network in the retina of Drosophila melanogaster
160	Alex	McLachlan	Virtual Fly Brain - Integrating Drosophila melanogaster nervous system Split-GAL4 driver lines with connectomic and transcriptomic data
183	Marta	Medija	Dopamine and Octopamine Regulate Isolation-induced Social Interaction Networks in Drosophila
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187	César S.	Mendes	Sustained local motor activity and avoidance behavior triggered by leg mechanosensory bristles

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154	Irina	Moitra	Complete <i>Drosophila</i> adult CNS connectome allows thorough mapping of ascending neurons involved in locomotor circuits
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205	Karina	Piotrowska	The role of post-synaptic dopamine transport in learning and memory
171	Maximilian	Pitsch	Attentional inhibition is controlled by behavior-specific circuitry
200	Emma	Pottié	Circadian clock disruption promotes the degeneration of dopaminergic neurons in <i>Drosophila melanogaster</i>
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175	Solenne	Puisais	Dissection of the opponent mechanisms for processing skylight cues in the Distal Medulla of <i>Drosophila melanogaster</i>
244	Kavya Vinayan	Pushpalatha	Presynaptic protein translation as a potential molecular mechanism regulating long-term homeostatic plasticity
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242	Francisca	Rojo Cortes	Structural plasticity in a dopaminergic circuit by a neurotrophin with a Toll modifies behaviour
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232	Emily	Sample	Characterising Cryptochrome as a Novel Modulator of Neuronal Transmission at the Larval Neuromuscular Junction in <i>Drosophila</i> .
132	Gizem	Sancer	Selective Central Negation of Peripheral Sensory Modulation in <i>Drosophila melanogaster</i>
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146	Johanna	Schweizer	Integration of information in the absence of action in <i>Drosophila</i>
142	Aishwarya	Segu	tequila, the neurotrypsin plays a role in sleep quality maintenance in flies
125	Prachi	Shah	Insult-induced retrograde amnesia is mediated by dopaminergic activity
149	Valeria	Silva	Connectomic comparison of dopaminergic neural circuits in the female and male adult brains of <i>Drosophila melanogaster</i>
228	Aleksandra	Simdianova	Integration of navigational cues in the central brain of <i>Drosophila melanogaster</i>
129	Deepanshu	Singh	Sex-peptide targets distinct higher-order processing neurons in the brain to induce the female post-mating response
240	Edward	Smith	Understanding the regulation of apoptosis-induced cell cycle re-entry
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211	Tomke	Stürner	Comparative connectomics of the descending and ascending neurons of the <i>Drosophila</i> nervous system: stereotypy and sexual dimorphism
221	Raquel	Suárez Grimalt	Balancing good and bad: serotonin signals bias memory consolidation towards positive or negative experiences
197	Danesha Devini	Suresh	Investigating the Interaction Networks of Neuronal Protein Complexes
235	Athira	Theyyassanchery Mani	The impact of protein kinase RSK in circadian clock, synaptic plasticity and behavioural timing in <i>Drosophila melanogaster</i> .
215	Massimo	Thiel	Arborization patterns of ascending neurons in the adult <i>Drosophila melanogaster</i> central nervous system

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182	Christoph	Treiber	Single-cell transcriptomics unveil functional heterogeneity of dopamine neurons
162	Oriane	Turrel	Role of presynaptic proteins in memory formation in the Mushroom Bodies of <i>Drosophila melanogaster</i>
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119	Denise	Weber	Salty lessons: Unravelling the Neuronal Circuit of Aversive Learning in <i>Drosophila</i> Larvae
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196	Herman	Wijnen	Red light-mediated plasticity of pacemaker function in the <i>Drosophila</i> circadian clock circuit.
123	Wenbin	Yang	Creating true and false memories from forgotten information in <i>Drosophila</i>
141	Yijie	Yin	Connectome Interpreter: a Toolkit
144	Qianhui	Zhao	A two-layer neural circuit controls fast forward locomotion in <i>Drosophila</i> larva
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