

RESEARCH CONFERENCES

ESF Research Conference Functional Neurobiology in Minibrains: From Flies to Robots and Back Again

Hotel Eden Roc, Sant Feliu de Guixols (Costa Brava) • Spain
17-22 October 2010

Chair: **Matthieu Louis**, CRG-Centre for Genomic Regulation, EMBL-CRG Systems Biology Unit, ES
Co-Chairs: **Richard Benton**, University of Lausanne, CH
Bertram Gerber, Wuerzburg University, DE

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LIST OF ACCEPTED POSTERS

	Surname	First Name	Poster Title
1	Bartussek	Jan	A nonlinear dynamics approach on control of flapping flight in <i>Drosophila</i>
2	Behnia	Rudy	In Vivo Whole-Cell Patch-Clamp Recordings of Optic Lobe Neurons in <i>Drosophila</i>
3	Chen	Yi-Chun	A behavioural odour-similarity 'space' in larval <i>Drosophila</i>
4	Ejaz	Naveed	Blowfly brain-machine interface: Performance of a proportional controller in a closed-loop visual stabilization task
5	Expert	Fabien	Miniature bio-inspired optic flow sensors
6	Feng	Kai	Quantitative analysis of female responses to courtship song
7	Friederich	Uwe	Invariant contrast processing in <i>Drosophila</i> photoreceptors
8	Gomez-Marin	Alex	Deciding "when" and "where" to turn in <i>Drosophila</i> larval chemotaxis
9	Garcia Bermudez	Fernando L.	Flapping oscillations versus optical flow motion estimation
10	Grabe	Veit	In vivo visualization of inhibitory odor responses in the olfactory system of <i>Drosophila melanogaster</i>
11	Grunwald-Kadow	Ilona	Screening for novel neuronal circuits that underlie innate olfactory behavior

12	Guerrero González	Antonio	A biologically inspired neural network for autonomous robotic systems
13	Gutierrez- Galvez	Agustín	Comparison of biological and artificial chemical sensing populations based on information theory
14	Inagaki	Hidehiko	Visualizing dopamine modulated circuits between different behavioral states in <i>Drosophila melanogaster</i>
15	Iyengar	Balaji G.	Localization of function through random-genetic silencing of neurons in intact-behaving <i>Drosophila</i> larva
16	Jansen	Stefan	Artificial Gene Expression: A modeller's take on the nature-nurture debate
17	Joerchel	Sabrina	Fruitless isoforms regulate distinct aspects of neural circuit development and male courtship behavior
18	Larsen	Camilla	Function of a novel group of neurons associated with the Mushroom body
19	Li	Xiaofeng	Do quantal dynamics of graded synaptic signal transfer adapt to maximise the rate of information?
20	Longden	Kit D.	Multiple strategies for processing conflicting patterns of visual motion in the blowfly
21	Marter	Kathrin	The impact of reward magnitude on associative strength and memory formation
22	Mckiernan	Erin	Title: The contribution of MN calcium-dependent potassium currents to shaping the timing of rhythmic motor output underlying crawling in <i>Drosophila</i> larvae
23	Medici	Vasco	Reverse engineering speed control in <i>Drosophila</i> and robotic implementations
24	Miyazaki	Takaaki	Neural Structure of the <i>Drosophila</i> primary gustatory center revealed with GAL4 and LexA enhancer-trap systems
25	Nawrot	Martin Paul	Dynamic encoding of stimulus-reward association in the honeybee mushroom body
26	Neriec	Nathalie	The first neuronal steps in <i>Drosophila</i> color vision
27	Neuser	Kirsa	Stepping into the Neural Circuitry of the Central Complex
28	Nordstrom	Karin	Gain in small target motion detection
29	Pereanu	Wayne	Using a mesoscopic connectivity map of the adult <i>Drosophila</i> brain to investigate neural circuitry at multiple levels of resolution
30	Peterson	Kristopher	An implantable micro-recording probe for the blowfly brain
31	Plett	Johannes	Bio-Inspired Visual Ego-Motion Sensor for Unmanned Aerial Vehicles
32	Ramaekers	Ariane	Evolution of the eye in the genus <i>Drosophila</i> : a study of the molecular and cellular bases of morphological variation between and within species
33	Ramdya	Pavan	Quantifying collective olfactory behaviour
34	Schleyer	Michael	How outcome expectations organize learned behaviour in larval <i>Drosophila</i>
35	Seki	Yuuichi	Ultradian rhythm is revealed by disruption of circadian clock in <i>Drosophila melanogaster</i>
36	Shinomiya	Kazunori	Comprehensive map and nomenclature system of the brain of <i>Drosophila</i>
37	Spence	Andrew	Insects running on elastic surfaces: the role of feedforward control

38	Strutz	Antonia	Representation of odors activating inhibitory Projection neurons in the lateral horn of <i>Drosophila melanogaster</i>
39	Suver	Marie	Modulation of visual interneurons by octopamine in <i>Drosophila melanogaster</i>
40	Vogt	Nina	Behavioral analysis of color vision in <i>Drosophila</i>
41	Weir	Peter Thomas	Celestial navigation in <i>Drosophila</i>
42	Wicklein	Martina	Receptive field organization in lobula-plate tangential cells in male and female blowflies
43	Zabala	Francisco	Aerobatic control of free-flight maneuvers in <i>Drosophila</i>