Circuits and Behavior in Tuscany

Dates: 06/19/2016 - 06/24/2016

The purpose of the meeting is to bring together an international group of scientists who share an interest in understanding the interplay of sensory processing, circuit dynamics and the generation of behavior in the insect and vertebrate brain.

A specific focus is on the recording and manipulation of large groups of neurons in an awake and behaving animal.

We want to emphasize and encourage open discussion, the sharing of data and specifically encourage the presentation of ongoing projects rather than published results.

Location: Montecastelli Pisano
For directions etc go to http://it.wikipedia.org/wiki/Montecastelli_Pisano

Schedule

	Mon	Tue	Wed	Thu
Morning 1 (9:00-10:00)	3xTalk	3xTalk	3xTalk	3xTalk
Break				
Morning 2 (10:30-11:30)	3xTalk	3xTalk	3xTalk	3xTalk
Lunch				
Afternoon 1 (15:00-16:00)	Speaker 1	Breakout	Breakout	the next best thing
	Speaker 2	groups Open	groups Open	break-out discussion groups
	Speaker 3	discussion	discussion	at Romitorio
Break				Pizzaparty
Afternoon 2 (16:30-17:30)	3xTalk			
Dinnan/Duastr				
Dinner/Break	TNI	C 4	TNI	DI
Plenary (21:00-22:00)	Plenary	Concert	Plenary	Plenary

Sunday

12:00 – 17:00: Arrival

18:30 – 20:00: Dinner

Welcome and Introductory Lecture Florian Engert 21:00 - 22:00:

Monday

<u>9:00 – 11:30 (Chair: Josua Jordi)</u>

9:00 – 9:20	Attinger, Alexander
	Visuomotor coupling shapes the functional development of mouse visual cortex
9:20 – 9:40	Bormuth, Volker Whole-brain activity mapping of VOR with light-sheet microscopy
9:40 – 10:00	deBivort, Benjamin
	Modeling locomotor bias and individual variation in a Drosophila pre-motor circuit
	Break
10:30 – 10:50	: Kyobi Sutt-Kakaria TBD
10:50 - 11:10	
11.10 - 11.30	Snell's transformation of images in water : Fotowat, Haleh
11.10 11.50	Navigation in weakly electric fish
	Lunch
<u> 15:00 – 16:00</u>	: (Chair: Timothy Dunn)
15:00 – 15:20	: Gebhardt, Christoph
15:20 – 15:40	Anatomy and function of an inter-hemispheric neural circuit in the zebrafish optic tectum : Guggiana-Nilo, Drago
	Color vision in Zebrafish
15:40 – 16:00	: Hildebrand, David Whole-brain serial-section electron microscopy in larval zebrafish
	whole-brain serial-section electron inicroscopy in farvar zeoransii
	Break
16:30 – 16:50	: Jordi, Josua
	Large-scale chemical- and multi-behavioral profiling identifies novel, specific appetite
16:50 – 17:10	and satiation stimulants. : Wee, Caroline
10.00	Flexible control of social and non-social behavior by the zebrafish oxytocin circuitry
17:10 – 17:30	: Reggiani, Jasmin
	Functional characterization of retinal ganglion cell populations in the mouse
	Dinner
21:00 - 22:00	1 0
Lichtman, Je	ff Does connectomics make sense?

Tuesday

21:00 - 22:00:

(Chair: Haleh Fotowat)

9:20 - 9:40	Lambert, Aaron Dissociable and state-dependent receptor-specific dopaminergic contributions to spontaneous and goal-directed repertoires in predatory zebrafish Lefler, Yaara Computation of instinctive defensive behaviours in the mouse midbrain Leonardo, Anthony Neural components of an internal model	
	Break	
10:50 – 11:10	: Miller, Andrew Infra-slow neural oscillations in the larval zebrafish : Naemeka, Onyeka A web based atlas for the larval zebrafish brain : Naumann, Eva From whole-brain data to functional circuit models: the zebrafish optomotor response	
	Lunch	
Breakout Sessions – free time		
18:30 – 20:0	0: Dinner	

Concert

Wednesday

(Chair: Hana Zwaka)

9:20 – 9:40:	Wigderson, Eyal Early multisensory integration of self and source motion in the auditory system. Zylbertal, Asaph Infra-slow network activity Ahrens, Misha TBD
	Break
10:50 – 11:10	Tanabe, Hideyuki The study of hippocampus function in zebrafish Ailani, Deepak Functional imaging of the hypothalamus in fixed and free swimming zebrafish Kostadinov, Dimitar Sensorimotor integration in the cerebellum
	Lunch
	Breakout Sessions – free time
18:30 – 20:0	0: Dinner
21:00 - 22:00	: plenary lecture Keller, Georg: Learning to see

Thursday

(Chair: Eva Naumann)

9:00 – 9:20: Wolf, Sebastien

Visual modulation of eyes saccades dynamics

9:20 – 9:40: Zwaka, Hanna

A virtual environment assay for learning in honeybees

9:40 – 10:00: Ramdya, Pavan

The neurogenetic mechanisms of collective behavior in Drosophila

------ Break ------

10:30 – 10:50 Robert Johnson

Building a Framework to Predict Zebrafish Behavior

10:50 – 11:10: Eagon Meng

Epistemology in neuroscience

11:10 – 11:30: Hernan Lopez-Schier

Vectorial mechanosensation in zebrafish

------ Lunch

Locate to Romitorio – discussion groups

Pizza Party

21:00 – 22:00: plenary lecture

Bonhoeffer, Philipp TBD

Friday

Departure

Confirmed Speakers – Titles of talks:

Ahrens, Misha	TBD	
Ailani, Deepak	Functional imaging of the hypothalamus in fixed and free swimming zebrafish	
Attinger, Alexander	Visuomotor coupling shapes the functional development of mouse visual cortex	
Bonhoeffer, Philipp	TBD	
Bormuth, Volker	Whole-brain activity mapping of VOR with light-sheet microscopy	
deBivort, Benjamin	Modeling locomotor bias and individual variation in a Drosophila pre-motor circuit	
Dunn, Tim	Snell's transformation of images in water	
Engert, Florian	TBD	
Fotowat, Haleh	Navigation in weakly electric fish	
Gebhardt, Christoph	Anatomy and function of an inter-hemispheric neural circuit in the zebrafish optic tectum	
Guggiana-Nilo, Drago	Color vision in Zebrafish	
Hildebrand, David	Whole-brain serial-section electron microscopy in larval zebrafish	
Johnson, Rob	TBD	
Jordi, Josua	Large-scale chemical- and multi-behavioral profiling identifies novel, specific	
	appetite and satiation stimulants	
Keller, Georg	Learning to see	
Kostadinov, Dimitar	Sensorimotor integration in the cerebellum	
Lambert, Aaron	Modulation of swim behavior by dopamine signaling	
Lefler, Yaara	Computation of instinctive defensive behaviours in the mouse midbrain	
Leonardo, Anthony	Neural components of an internal model	
Lichtman, Jeff	Does connectomics make sense?	
Lopez-Schier, Hernan	TBD	
Meng, Eagon	TBD	
Miller, Andrew	Infra-slow neural oscillations in the larval zebrafish	
Naemeka, Onyeka	A web based atlas for the larval zebrafish brain	
Naumann, Eva	From whole-brain data to functional circuit models: the zebrafish optomotor response	
Ramdya, Pavan	The neurogenetic mechanisms of collective behavior in Drosophila	
Reggiani, Jasmin	Functional characterization of retinal ganglion cell populations in the mouse	
Tanabe, Hideyuki	The study of hippocampus function in zebrafish	
Wee, Caroline	Flexible control of social and non-social behavior by zebrafish oxytocin circuitry	
Wigderson, Eyal	Early multisensory integration of self and source motion in the auditory system.	
Wolf, Sebastien	Visual modulation of eyes saccades dynamics	
Zwaka, Hanna	A virtual environment assay for learning in honeybees	
Zylbertal, Asaph	Infra-slow network activity	