



Thursday 10th September

8.30	Departure from hostel	
9.00-9.15	Welcome	Samuel Walker & Carlos Ribeiro
9.15-10.45	Lecture I - Intro to innate behavior	Andrew Seeds
10.45-11.10	Break	
11.10-12.30	Lecture II - Neural basis of innate behavior: the motor infrastructure	Andrew Seeds
12.30-13.30	Lunch	
13.30-13.45	Introduction to recording behavior	Samuel Walker & Sercan Sayin
13.45-15.15	Practical session I	Samuel Walker, Pavel Itskov; Andrew Seeds; Ajinkya Deogade, Valentina Ferlito, Ibrahim Tatsekin
15.15-15.35	Break	
15.35-17.05	Practical session II	
17.05-17.25	Break	
17.25-18.55	Practical session III	Samuel Walker & Sercan Sayin
19.00-19.30	Wrap-up: recording behavior & manipulating neurons	
19.30-20.30	Dinner	
21.00	Departure for hostel	

Practical sessions

- i. Novel methods to monitor feeding behavior
- ii. Monitoring larval chemotaxis
- iii. Monitoring grooming behavior & neuronal activation

Friday 11th September

8.30	Departure from hostel	
9.00-10.15	Lecture I – neuroanatomy to behavior	Greg Jefferis
10.15-10.25	Break	
10.25-11.10	Fly brain anatomy	Greg Jefferis
11.10-11.20	Break	
11.20-12.30	Demo of virtualflybrain	Marta Costa
12.30-13.30	Lunch	
13.30-13.45	Introduction: from anatomy to behavior	Simon Weinberger, Ajinkya Deogade, Ivan Larderet, Sayanne Sospelisa, Marianthi Karageorgi
13.45-15.45	Practical session I	
15.45-16.15	Break	
16.15-18.15	Practical session II	
18.15-18.30	Wrap-up: from anatomy to behavior	
18.30-19.30	Beer hour	
19.30-20.30	Dinner	
21.00	Departure for hostel	

Practical sessions

- i. Neuroanatomy to behavior in *Drosophila* larvae –
optical & electron microscopy; neuronal activation screens; introduction to ImageJ
- ii. Neuroanatomy to behavior in *Drosophila* adults & non-model flies
Intro to Braingazer; GRASP for potential connectivity; adult brain dissection; non-model flies



Saturday 12th September

8.30	Departure from hostel	
9.15-10.30	Lecture I – Introduction to internal states	Leslie Griffith
10.30-10.45	Break	
10.45-12.00	Lecture II – Integration of internal and external states in the sleep/wake decision in <i>Drosophila</i>	Leslie Griffith
12.00-13.00	Lunch	
13.00-13.15	Introduction: analyzing behavioral data	Ibrahim Tatsekin, Ajinkya Deogade, Guangda Liu, Valentina Ferlito
13.15-14.45	Practical session I – larval tracking	
14.45-15.00	Break	
15.00-16.30	Practical session II – using machine learning to assist behavioral annotation: JAABA	
16.30-16.45	Break	
16.45-17.45	Discussion – from manual to automated analysis of behavior, and everything between	
18.00-19.30	Poster session	
19.30-20.30	Dinner	
21.00	Departure for hostel	

Sunday 13th September

9.00	Departure from hostel	
9.30-10.45	Lecture I – Learning & memory in <i>Drosophila</i>	Scott Waddell
10.45-11.00	Break	
11.00-12.00	Lecture II – Learning & memory in <i>Drosophila</i>	Scott Waddell
12.00-13.50	Lunch	
13.50-14.00	Introduction: monitoring neuronal activity	
14.00-15.30	Lecture – Monitoring neuronal activity in <i>Drosophila</i>	Eugenia Chiappe
15.30-17.00	Practical session I	Eugenia Chiappe, Terufumi Fujiwara, Samuel Walker, Ahmed Mohamed
17.00-17.20	Break	
17.20-18.50	Practical session II	
19.00-19.30	Wrap-up: Monitoring neuronal activity	
19.30-20.30	Dinner	
21.00	Departure for hostel	

Practical sessions

- i. Electrophysiology in the adult *Drosophila* visual system
- ii. Calcium imaging in the adult *Drosophila* gustatory system



Monday 14th September

9.00	Departure from hostel	
9.30-10.45	Lecture I – Evolutionary neuroethology: using species of <i>Drosophila</i> to understand how behavior evolves	Christen Mirth
10.45-11.00	Break	
11.00-12.00	Lecture II – The ecology and the evolution of nutrient-dependent choice in <i>Drosophila</i>	Christen Mirth
12.00-13.30	Lunch	
13.30-15.30	Practical – improvisation & science	Leonie Ringrose
15.30-16.00	Break	
16.00-18.00	Practical – improvisation & science	Leonie Ringrose
18.00	Departure for dinner & drinks	