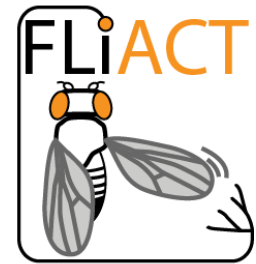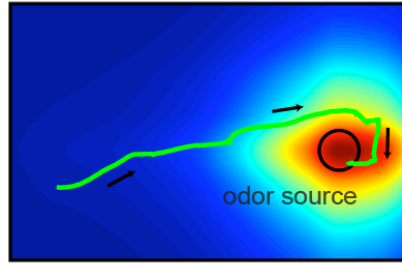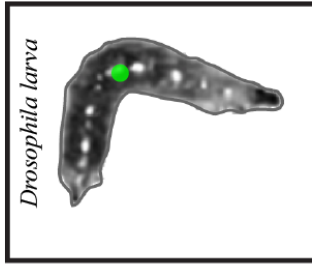*Drosophila larva*

odor source

Center for Genomic Regulation
Barcelona, Spain

FLiACT network for Drosophila
systems neuroscience

OPEN POSITION IN SYSTEMS NEUROSCIENCE
at Centre for Genomic Regulation (www.crg.eu) in Barcelona, Spain

We are looking for a highly motivated researcher interested in quantitative behavioural neuroscience. One position is available to conduct a Ph.D. in the laboratory of Matthieu Louis (CRG, Spain). The successful candidate will join the Marie-Curie Initial Training Network *FLiACT* for *Drosophila* system neuroscience. The aim of *FLiACT* is to elucidate how circuit-function relationships are genetically encoded and how circuit computation controls behaviour. The *FLiACT* network is composed of 12 partners across Europe together with the Janelia Farm Research Campus (www.fliact.eu).

The main research interest of the Louis lab is to understand the relationships between neural circuits, sensory coding and behaviour. We are studying how odour tracking comes about in terms of neural computation in the *Drosophila* larva. In previous work, we have established larval chemotaxis as a paradigm to dissect the molecular and cellular bases of sensorimotor integration and decision making in a genetic model organism. We take advantage of optogenetics to create virtual sensory realities where quantitative models about the mechanisms controlling chemotaxis can be tested and refined.

We are seeking to recruit a PhD student to participate in this exciting project. The successful candidate will benefit from a Marie-Curie PhD fellowship with a highly competitive salary (min 38,000 € + monthly mobility allowance). This project is ideal for a researcher career researcher with a strong interest in systems neuroscience, modelling and behavioural neurogenetics. The research will be conducted in collaboration with other partners of the *FLiACT* network, in particular the laboratories of Dr. Vivek Jayaraman (Janelia Farm) and Dr. Roland Strauss (Mainz University).

Requirements:
- Master degree in neuroscience, biophysics, physics, bioengineering or any related fields. Candidates with a background in systems biology, engineering and computer science are highly encouraged to apply.

Desirable skills:
- High level of comfort with instrumentation
- Prior experience in scientific programming (C, C++, MATLAB)
- Experience working with insects and/or *Drosophila* (preferred but not required)

Starting date: prior to January 31, 2013

Applications must be submitted through the *FLiACT* website: www.fliact.eu. The application package should include your CV, a letter of motivation and two letters of reference. For more information, feel free to email Dr. Matthieu Louis (**mlouis[at]crg.eu**) — please indicate "*FLiACT position*" in the subject line.