**Postdoc position in neurobiology**

We study odor-directed behavior and its underlying neurobiological substrate in arthropods from a functional and evolutionary perspective. In drosophilid flies our main objective is to understand the evolution of olfactory functions in an ecological context. By studying closely related species living under different ecological conditions it is possible to understand how habitat and food-choice have affected the evolution of the sense of smell. We are also investigating the direct function of the *Drosophila melanogaster* olfactory system by looking at transduction mechanisms, and coding and connectivity at different neural levels, as well as the behavioral outcome of olfactory processing. In sphingid moths we want to understand how different host plant associations have affected olfactory function and behavior. Both oviposition site search and nectar feeding are heavily dependent on odor information. In both systems – *Drosophila* and *Manduca* – the complete neuroethological chain of events is studied, from single molecules and genes, to neurons, to whole organism responses. To perform this research we make use of modern neurobiological techniques as optical imaging, patch clamping, extra- and intracellular recording, and two photon confocal microscopy. We also use molecular techniques and bioinformatics. Behavioral responses are studied in the field, in wind tunnels and in laboratory bioassays. We have recently established the genome editing tool CRISPR/Cas in flies and moths and are planning to extend our effort on this.

We are offering: **2-year Post Doctoral stipend** (which might become extended by 2-year postdoc position afterwards based on productivity) for creative biologists with a track record of research productivity.

We offer a stimulating work environment, state-of-the art equipment, and excellent mentoring for your transition to a independent scientist.

We expect a PhD in neurobiology, molecular biology, or behavioral ecology, and especially an expertise in the genome editing tool CRISPR/Cas.; excellent writing skills; a publication track record, and a collaborative personality. The postdoc will run his own project within the above-mentioned frame work but will also be involved in many other projects in the department that need the generation of genetically edited organisms.

How to apply: Send your CV, a summary of your previous research experience, a statement of research interests and a short statement on a project that you would like to conduct in our department together with information for at least two references to Prof. Bill Hansson. Suitable candidates will be interviewed by phone, asked to write a short proposal, followed by an invitation for a seminar. The positions are available immediately and will remain open until filled.

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