

OPEN POSITIONS from October 2007

for a

Post-doctoral fellow and PhD student

in the group of

Dr Richard Benton
Center for Integrative Genomics
University of Lausanne, Switzerland

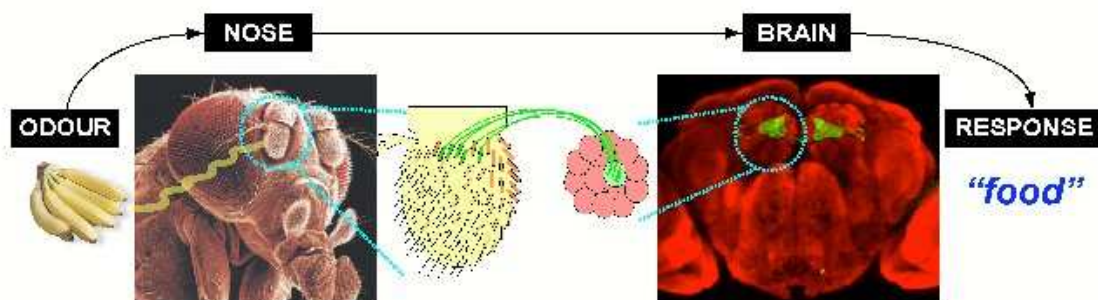
investigating

***Drosophila* Olfaction**



From bacteria to man, all organisms derive vital information from chemical signals in their environment. These may indicate the presence of food or dangers such as fire and predators. Many social interactions between members of the same species are also mediated by chemical communication, including aggregation and courtship behaviours. We are interested in the genetic, neural and evolutionary basis of how organisms detect chemical signals, process them in the brain, and respond with the appropriate behaviour.

Our experimental focus is the olfactory system of the fruit fly, *Drosophila melanogaster*. *Drosophila* is a genetically tractable model organism that displays a rich repertoire of chemosensory-driven behaviours under the control of a relatively simple nervous system. Combining genomics and genetics, molecular and cellular biology, electrophysiology and behavioural analysis, we aim to dissect the sense of smell from genes to neurons to circuits to behaviour.



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For more information see: www.unil.ch/cig/page44404.html