

Li Liu

Education and Professional Experience

1985 -1989: B. Sc. in Biophysics, Nankai University, Tianjin

1991 -1996: Ph. D. in Biophysics, Institute of Biophysics of CAS, Beijing

1996 -1997: Assistant Professor, Institute of Biophysics of CAS, Beijing

1997 -1999: Postdoctoral Research in Wuerzburg University, Germany

1999 - Present: Professor of Institute of Biophysics of CAS, Beijing

Research Interests

In response to the environmental stimuli, fruit fly-*Drosophila melanogaster* exhibits a diversity of behavioral activities from feeding and locomotion to cognitive processes. Using a variety of experimental approaches, ranging from behavioral to molecular, our lab seeks to study how the central nervous system translates environmental stimuli to behavior. We attempt to elucidate the structure and function of the brain in relation to the production of specific behavior in *Drosophila*.

Selected Publications

Peng QL, Wang YJ, Li MX, Yuan DL, Xu MB, Li CQ, Gong ZF, Jiao RJ* & **Liu L*** (2016) cGMP-dependent protein kinase encoded by *foraging* regulates motor axon guidance in *Drosophila* by suppressing Lola function. *J Neuroscience*, 36(16):4635-4646.

Li MX, Wen SY, Guo XQ, Bai BY, Gong ZF, Liu XJ, Wang YJ, Zhou YQ, Chen XW, **Liu L*** and Chen RS* (2012) The novel long non-coding RNA CRG regulates *Drosophila* locomotor behaviour. *Nucleic Acids Research*, 40(22):11714-11727.

Gong ZF*, Liu JQ, Guo C, Zhou YQ, Teng Y & **Liu L*** (2010) Two pairs of neurons in central brain control *Drosophila* innate light preference. *Science*, 330:499-502.

Liu G, Seiler H, Wen A, Zars T, Ito K, Wolf R, Heisenberg M*, **Liu L*** (2006) Distinct memory traces for two visual features in the *Drosophila* brain. *Nature*, 439:551-556.

Liu L, Wolf R, Ernst R. Heisenberg M* (1999) Context generalization in *Drosophila* visual learning requires the mushroom bodies. *Nature*, 400:753-756.