



Neural circuit mechanisms underlying state-dependent modulation of sensorimotor decisions

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In order to survive, animal need to be able to respond to their environment flexibly depending on the context and their internal state. For example, in face of aversive stimuli animals need to balance their decisions about avoiding dangers and threats with pursuing food search and these decisions will be modulated by animal's satiation state. How changes in the feeding state affect non-feeding related behavior is not well understood. In order to address this question and investigate the neural circuit mechanisms involved, we combine automated behavioral detection, neuronal manipulations, functional imaging and electron microscopy in *Drosophila* larva. I will present our work on deciphering the neural circuit mechanisms underlying the feeding state-dependent modulation of responses to an aversive mechanical stimulus.

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Institute of Physiology II, Nussallee 11, Lecture Hall, First Floor



If you would like to meet with the speaker, please contact:

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