

Cost and benefit of fighting: insect models of conflict resolution and social structure

English



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An optimal choice of behavior during social interactions depends on both internal needs and behavioral responses from the other individual. A major goal of our lab is to understand molecular and neuronal mechanisms that support the cost-benefit calculations during social interactions, using fighting behaviors of the fruit fly *Drosophila melanogaster*. Despite its compact nervous system, we and others found that the flies adjust the intensity and duration to fight based on both internal and external conditions. I will specifically discuss our recent progresses in two research areas: 1) a neural mechanism underlying social defeat, and 2) neuropeptidergic modulation of aggressive behavior by nutritional deficits.

セミナーは英語で行いますが、質疑は日本語でも受け付けます。

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