

# Seminar

アドバンス生命理学特論  
Topics in Advanced Biological Science



## HOW NUTRIENTS, NEURONAL CIRCUITS, AND GUT BACTERIA SHAPE NUTRITIONAL DECISIONS

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Nutritional decisions are key determinants of health, wellbeing and aging. We want to understand how animals decide what to eat and how these decisions affect the fitness of the animal. To achieve a mechanistic, integrated, whole-animal understanding of nutritional decision-making we work at the interface of behavior, metabolism, microbiome, and physiology in the adult *Drosophila melanogaster*. I will discuss how the powerful combination of neurogenetics, automated, quantitative behavioral analyses, nutritional and microbial manipulations, and activity imaging approaches is allowing us to achieve a mechanistic understanding of how neuronal circuits control nutrient specific appetites to regulate important traits such as aging and reproduction.



11月21日(火) 13:30-15:00

理学部 E 館 1 階 E 131 室

E131 Room, 1st Floor, Science E Building

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