中国科学院生物物理研究所
Institute of Biophysics, Chinese Academy of Sciences

行为调控的神经环路与分子机制

Fly
in space

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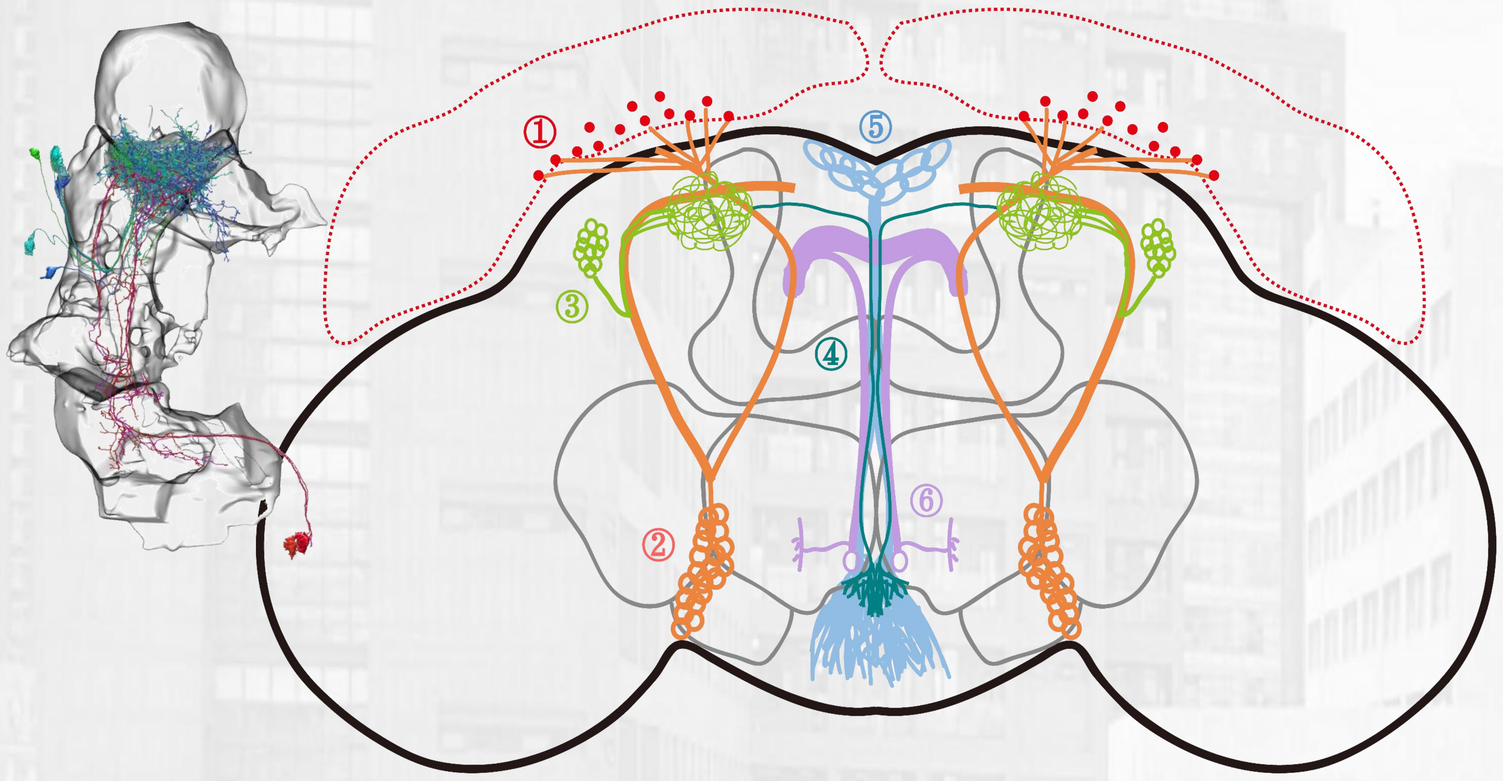
Research Interest

- Sensing, coding, and processing of protein satiety signals
  ---- feeding memory and feeding decision
- Rhythmic feeding and the underlying neural circuit & molecular mechanisms
- The biological effects of hypo-magnetic environment



主要实验技术

- 遗传、分子与生化
- 行为学（进食、学习记忆与睡眠节律）
- 解剖-染色-脑结构成像
- 活体脑功能成像
- 脑结构与功能联接组

Selected Publications:

1. Brain insulin signal mediates protein satiety and feeding regulation, *Cell Reports*, 2024
2. Looming detection for collision avoidance. *iScience*, 2023
3. Local 5-HT signaling and time window for associative learning. *Neuron*, 2023.
4. Epilepsy gene prickle ensures neuropil glial ensheathment. *iScience*, 2022.
5. Ceramide phosphoethanolamine modulates circadian rhythm. *National Sci Rev*, 2022.
6. dFRAME for studying feeding rhythm in *Drosophila*. *Front. Genet,* 2021.
7. Suppression of GABAergic secures efficient olfactory learning. *PNAS,* 2019.
8. FIT is a protein-specific satiety hormone for feeding control. *Nature Commun*, 2017.
9. A presynaptic function of shank protein in *Drosophila*. *J Neurosci*, 2017
10. ALS-linked FUS mutant contributes to neurite degeneration. *Sci Rep*, 2017
11. Gap junction networks participate in visual learning and memory. *Elife*., 2016.
12. Sexually dimorphic dopamine signals in nicotine-induced hyperactivity. *Neurosci*, 2016.
13. Epithelia-derived wingless regulates dendrite directional growth. *Mol Brain*, 2016.

如果你。。。

- 仰望天空、心怀梦想
- 对行为的神经调控充满好奇
- 擅长生物实验或大数据分析
- 愿意学习新知识、新技术
- 勇于挑战、持之以恒