
Bingzhen Zhao

M.S. of Neuroscience

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Education Background

09/2018-present University of Science and Technology of China (USTC), Hefei, China

- M.S. in Neuroscience
- GPA 3.75

09/2014-06/2018 Hefei University of Technology (HFUT), Hefei, China

- B.S. in Biotechnology
- GPA 3.57 (top 10%)
- National Computer Rank Examination (NCRE) level 2

Publications

- Duan, D., Zhang, H., ..., **Zhao B.**, ..., Kang L. (2020). Sensory Glia Detect Repulsive Odorants and Drive Olfactory Adaptation. Neuron.

Research Experience

03/2018-present

Leader, Circuit mechanism of multi-sensory integration in C. elegans, USTC

Advisor: Prof. Quan Wen, USTC

- Built up a behavioral setup with thermal gradient and high-resolution behavior recording
- Improved the data analysis workflow with MATLAB software
- Designed a multi-sensory integration behavioral paradigm in C.elegans
- Found different behavioral strategies when C. elegans explores in a multi-sensory field
- Guided two undergraduates, planned and supervised experiments
- Found an important neuron in the integration behavior in C. elegans

8/2020-present

Leader, Investigate sensory neurons' responses to different sensory stimuli, USTC

Advisor: Prof. Quan Wen, USTC

- Built up another setup combining with calcium imaging system to investigate the neuron function
- Got calcium imaging data of two kinds of sensory neurons during worms moving
- Wrote Matlab codes to match the calcium signals of neurons with worms' trajectories

5/2020-7/2020

Participant, Sensory Glia Detect Repulsive Odorants and Drive Olfactory Adaptation, (Zhejiang University)

Advisor: Prof. Lijun Kang, Zhejiang University

- Improved the original system with suitable parameters to analyze behavior data
- Wrote some codes (Matlab) to analyze the behavior data

6/2016-12/2017

Participant, Effect of metal ion metabolism on brain tumors in Drosophila, HFUT

Advisor: Prof. Guiran Xiao, HFUT

- Got Drosophila strains through crossing using UAS-Gal4
- Screened some genes about tumor in Drosophila and got some good results

Academic Conferences

- **2019** Attending the 22nd International C. elegans Conference, Los Angeles, CA
- **2018** (Presented a poster) Attending the 5th Chinese C. elegans Meeting, Yunnan, China

Honors and Awards

- **2018-2020** First prize of Academic Scholarship, every year, USTC
- **2018** Excellent Graduate Students in Anhui province (top 1%)
- **2017** "Internet+" Innovation and Entrepreneurship Competition (First prize in HFUT)
- **2016** National Karate Championships for University Students (Gold medal)
- **2016-2017** National Scholarship (top 2%); Outstanding Merit Student (3%), Merit Student (HFUT)
- **2015-2016** Second prize of Academic Scholarship (top 7%), Merit Student (10%) (HFUT)
- **2014-2015** Second prize of Academic Scholarship (top 7%), Merit Student (10%) (HFUT)

Test scores

IELTS (14/11/2020) L: 7.0 R: 7.0 W: 6.0 S: 6.5 Total: 6.5
