

Kai Chang

Interdepartmental Genetics and Genomics
 Department of Genetics, Development, and Cell Biology
 Iowa State University
 Molecular Biology Building, Ames, IA 50011
 Phone: 630-402-1967
 Email: kaic@iastate.edu
 Lab Website: <http://www.thebailab.com/>

SUMMARY

Principal areas of interest are Genetics and Genomics. Career goal is becoming an academic researcher. Research assistant with 2 years in molecular and plant anatomy researches in University of Wisconsin-Stevens Point. Currently a graduate student in Iowa State University Interdepartmental Genetics and Genomics. My PhD project focuses on cardiac aging and autophagy in *Drosophila Melanogaster*. Accomplished in generating and applying new protocols and technologies. Specialized in cellular, molecular biology and Drosophila genetics. Familiar with large scale analysis such as Next-Generation Sequencing analysis and multi-omics methods. Proficient in Office software system and other software such as GraphPad, SOHA, HCI Image, CellSens, R studio. Adept in writing grant proposals and manuscripts. Communicate well with diverse teams.

EDUCATION

2010-2015	B.S	University of Wisconsin-Stevens Point
2016-Current	Ph.D	Iowa State University

PROFESSIONAL AFFILIATIONS

- Membership of Genetics Society of America 2016-present
- Membership of American Heart Association 2017-2018

GRANTS AND HONORS

2014	Undergraduate Research, Scholarship, and Creative Activities Fund. University of Wisconsin-Stevens Point. \$2000
2015	<i>Cum Laude</i> Graduation Honors, University of Wisconsin-Stevens Point.
2015	Biology Department Award, University of Wisconsin-Stevens Point. \$250.
2016	Professional Development Grants (PAG), Iowa State University. \$180.
2016	Travel Fund to Professional Conferences and Symposia, Iowa State University. \$250.
2016-2019	F. Wendell Miller Scholarship, Iowa State University. \$5,000/yr.
2018	Sui-Tong Chan Fung Fund Travel Award, Iowa State University. \$500.
2019-2021	Predocctoral Fellowship, American Heart Association. \$26,844/yr

SELECTED CONFERENCE ABSTRACT (After 2016)

Kai C, Bai H. 2016. Transcriptional co-regulation of lipid metabolism by Drosophila dFOXO and Kruppel homolog 1. The Allied Genetics Conference (TAGC). Orlando, Florida.

Kai C, Bai H. 2018. Activin Signaling Regulates Autophagy and Cardiac Aging through mTORC2. The Symposium for Cellular Organelles. Ames, Iowa.

Kai C, Bai H. 2018. Activin Signaling Regulates Autophagy and Cardiac Aging through mTORC2. The 5th Graduate and Professional Student Research Conference. Ames, Iowa.

Kai C, Bai H. 2019. The role of TGF-Beta/activin and mTORC2 signaling in cardiac homeostasis. The Keystone Symposia (J1/J2 Mitochondrial Biology in Heart and Skeletal Muscle AND Mitochondria in Aging and Age-Related Disease). Keystone, Colorado.

PUBLICATION

Chang K, Kang P, Liu Y, Huang K, Taylor E, Bodmer R, Ocorr K, Bai H. Activin Signaling Regulates Autophagy

and Cardiac Aging through mTORC2. bioRxiv. 2018; bioRxiv. doi: <https://doi.org/10.1101/165456>.

Kang, P., **Chang, K.**, Liu, Y., Bousk, M., Karashchuk, G., Thakore, R., Zheng, W., Post, S., Brent, C., Li, S., Tatar, M., Bai, H. 2017. Drosophila Kruppel homolog 1 represses lipolysis through interaction with dFOXO. Scientific Reports. 2017; doi: 10.1038/s41598-017-16638-1.