HAIJIANG CAI, PH.D.

E-mail: haijiangcai@email.arizona.edu
Tel: 520-621-6654 (Lab)
Web: https://neurosci.arizona.edu/person/haijiang-cai-phd

Mailing Address: University of Arizona,
Department of Neuroscience, Gould-Simpson 611
1040 E. 4th Street, PO Box 210077
Tucson, AZ 85721-0077

Education

2001 - 2007 **Ph.D.** Physiology and Biophysics, University of Southern California. Los Angeles, USA.

1996 - 2001 **B.S.** Biology, University of Science & Technology of China (USTC), Hefei, P. R. China.

Employment and Research Experience

2021 - Associate Professor of Neuroscience & BIO5 Fellow, University of Arizona

2015 - 2021 Assistant Professor of Neuroscience & BIO5 Fellow, University of Arizona

2008 - 2015 Postdoctoral fellow, David J Anderson lab, HHMI & California Institute of Technology

2001 - 2007 Graduate Research Assistant, Robert H Chow lab, University of Southern California

Selected Awards and Memberships

2017 - 2020 NARSAD Young Investigator Award, The Brain and Behavior Research Foundation

2011 - 2014 NARSAD Young Investigator Award, The Brain and Behavior Research Foundation

2010 - 2013 The Hilda and Preston Davis Foundation Postdoctoral Fellowship Award

2010 - Full Member. Sigma Xi The Scientific Research Society

2007 - Member. Society for Neuroscience

2003 - Member. American Association for the Advancement of Science (AAAS)

Selected Publications

2024. Schnapp WI, Kim J, Wang Y, Timilsena S, Fang C, **Cai H**. Development of activity-based anorexia requires PKC-δ neurons in two central extended amygdala nuclei. **Cell Rep**. 2024 Mar 8;43(3):113933. doi: 10.1016/j.celrep.2024.113933. [Epub ahead of print] PubMed PMID: 38460131.
   -- This work has been highlighted in *UA News, AZBio, Futurity, Medicine, EDReferal,* and numerous other journals or media.

2022. Sanchez MR, Wang Y, Cho TS, Schnapp WI, Schmit MB, Fang C, **Cai H**. Dissecting a disynaptic central amygdala-parasubthalamic nucleus neural circuit that mediates cholecystokinin-induced eating suppression. **Mol Metab**. 2022 Jan 20;58:101443. doi: 10.1016/j.molmet.2022.101443. [Epub ahead of print] PubMed PMID: 35066159; PubMed Central PMCID: PMC8844644.
   -- This work has been highlighted in *UA News, Arizona Public Media (AZPM), Arizona PBS, KVOA News 4 Tucson, ScienceDaily, EurekAlert!, Neuroscience News, Brainerd Dispatch, Times Now,* and numerous other journals or media.

2020. Zhang-Molina C, Schmit MB, **Cai H**. Neural Circuit Mechanism Underlying the Feeding Controlled by Insula-Central Amygdala Pathway. **iScience**. 2020 Apr 24;23(4):101033. doi: 10.1016/j.isci.2020.101033. Epub 2020 Apr 5. PubMed PMID: 32311583; PubMed Central PMCID: PMC7168768.

2019. Wang Y, Kim J, Schmit MB, Cho TS, Fang C, **Cai H**. A bed nucleus of stria terminalis microcircuit regulating inflammation-associated modulation of feeding. **Nat Commun**. 2019 Jun 24;10(1):2769. doi: 10.1038/s41467-019-10715-x. PubMed PMID: 31235690; PubMed Central PMCID: PMC6591327.
   -- This work highlighted in *Science Daily, EurekAlert, KGUN 9 TV News, AZPM(NPR) News, Neuroscience News, Daily Mail* and numerous other journals or media.

2014. **Cai H**, Haubensak W, Anthony TE, Anderson DJ. Central amygdala PKC-δ(+) neurons mediate the influence of multiple anorexigenic signals. **Nat Neurosci**. 2014 Sep;17(9):1240-8. doi: 10.1038/nn.3767. Epub 2014 Jul 27. PubMed PMID: 25064852; PubMed Central PMCID: PMC4146747.
-- This work has been highlighted in *Nature Review Neuroscience* (2014, 15:564), *The New York Times*, *BBC News*, *Los Angeles Times*, *CBS TV News*, *Science Update Radio News*, and numerous other journals or media.

2010. Haubensak W, Kunwar PS*, **Cai H***, Ciocchi S*, Wall NR, Ponnusamy R, Biag J, Dong HW, Deisseroth K, Callaway EM, Fanselow MS, Lüthi A, Anderson DJ. Genetic dissection of an amygdala microcircuit that gates conditioned fear. **Nature**. 2010 Nov 11;468(7321):270-6. doi: 10.1038/nature09553. PubMed PMID: 21068836; PubMed Central PMCID: PMC3597095.* equal contribution.
-- This work has been highlighted in *Nature Review Neuroscience* (2011, 12:2), *Faculty of 1000*, *The Scientist*, *Science Daily*, and many other journals or media.

2008. **Cai H**, Reim K, Varoqueaux F, Tapechum S, Hill K, Sørensen JB, Brose N, Chow RH. Complexin II plays a positive role in Ca2+-triggered exocytosis by facilitating vesicle priming. **Proc Natl Acad Sci U S A**. 2008 Dec 9;105(49):19538-43. doi: 10.1073/pnas.0810232105. Epub 2008 Nov 25. PubMed PMID: 19033464; PubMed Central PMCID: PMC2614796.