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Education2001 - 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 - 2019 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 Publications2020. Wu H, Yan X, Tang D, Gu W, Luan Y, **Cai H**, Zhou C, Xiao C. Internal States Influence the Representation and Modulation of Food Intake by Subthalamic Neurons. **Neurosci Bull.** 2020 Nov;36(11):1355-1368. doi: 10.1007/s12264-020-00533-3. Epub 2020 Jun 21. PubMed PMID: 32567027; PubMed Central PMCID: PMC7674539.2020. 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: PMC7168768.2020. Burton A, Obaid SN, Vázquez-Guardado A, Schmit MB, Stuart T, Cai L, Chen Z, Kandela I, Haney CR, Waters EA, **Cai H**, Rogers JA, Lu L, Gutruf P. Wireless, battery-free subdermally implantable photometry systems for chronic recording of neural dynamics. **Proc Natl Acad Sci U S A.** 2020 Jan 23;. doi: 10.1073/pnas.1920073117. [Epub ahead of print] PubMed PMID: 31974306.2019. 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*, *EurekaAlert*, *KGUN 9 TV News*, *AZPM(NPR) News*, *Neuroscience News*, *Daily Mail* and numerous other journals or media.2019. Tian X, Tu X, Della Croce K, Yao G, **Cai H**, Brock N, Pau S, Liang R. Multi-wavelength quantitative polarization and phase microscope. **Biomed Opt Express.** 2019 Apr 1;10(4):1638-1648. doi: 10.1364/BOE.10.001638. eCollection 2019 Apr 1. PubMed PMID: 31061760; PubMed Central PMCID: PMC6484989.

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.