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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.

Research Experiences

- 2015 - Assistant Professor of Neuroscience & BIO5 Research Fellow, University of Arizona
2008 - 2015 Postdoctoral fellow, HHMI, California Institute of Technology
2001 - 2007 Graduate Research Assistant, University of Southern California

Awards and Memberships

- 2011 - 2014 NARSAD Young Investigator Award, The Brain and Behavior Research Foundation,
2010 - 2013 The Hilda and Preston Davis Foundation Postdoctoral Fellowship Award
2010 - Sigma Xi The Scientific Research Society
2007 - Society for Neuroscience
2003 - American Association for the Advancement of Science (AAAS)

Publications

2015. Kunwar PS, Zelikowsky M, Remedios R, **Cai H**, Yilmaz M, Meister M, Anderson DJ. **2015**. Ventromedial hypothalamic neurons control a defensive emotion state. *Elife*. 4:e06633.
2014. **Cai H**, Haubensak W, Anthony TE, Anderson DJ. **2014**. Central amygdala PKC- δ^+ neurons mediate the influence of multiple anorexigenic signals. *Nature Neuroscience* 17: 1240-1248.
-- 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.
2013. Lin MY, Rohan JG, **Cai H**, Reim K, Ko CP, Chow RH. **2013**. Complexin facilitates exocytosis and synchronizes vesicle release in two secretory model systems. *J Physiol* 591(Pt 10): 2463-2473.
2010. Haubensak W, Kunwar P*, **Cai H***, Ciocchi S*, Wall N, Ponnusami R, Biag J, Dong HW, Deisseroth K, Callaway E, Fanselow M, Luthi A, and Anderson DJ. **2010**. Genetic dissection of an amygdala microcircuit that gates conditioned fear. *Nature* 468: 270-6. * 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.
2009. Xiao C, Nashmi R, McKinney S, **Cai H**, McIntosh JM, Lester H. **2009**. Chronic nicotine selectively enhances $\alpha 4\beta 2$ nicotinic acetylcholine receptors in the nigrostriatal dopamine pathway. *J Neurosci* 29: 12428-39.
2008. **Cai H**, Reim K, Varoqueaux F, Tapechum S, Hill K, Sorensen JB, Brose N, Chow RH. **2008**. Complexin II plays a positive role in Ca^{2+} -triggered exocytosis by facilitating vesicle priming. *Proc Natl Acad Sci U S A* 105: 19538-19543.
2007. Kolski-Andreaco A, **Cai H**, Currle DS, Chandy KG, Chow RH. **2007**. Mouse adrenal chromaffin cell isolation. *J Vis Exp*: 129.

2006. Michael DJ, **Cai H**, Xiong W, Ouyang J, Chow RH. **2006**. Mechanisms of peptide hormone secretion. *Trends Endocrinol Metab* 17: 408-415.
2003. Bao L, Jin SX, Zhang C, Wang LH, Xu ZZ, Zhang FX, Wang LC, Ning FS, **Cai HJ**, Guan JS, Xiao HS, Xu ZQ, He C, Hokfelt T, Zhou Z, and Zhang X. **2003**. Activation of delta opioid receptors induces receptor insertion and neuropeptide secretion. *Neuron* 37: 121-133.
2002. Bao L, Wang HF, **Cai HJ**, Tong YG, Jin SX, Lu YJ, Grant G, Hokfelt T, Zhang X. **2002**. Peripheral axotomy induces only very limited sprouting of coarse myelinated afferents into inner lamina II of rat spinal cord. *Eur J Neurosci* 16: 175-185.