CURRICULUM VITAE

NAME: Lang Wang, Ph.D.

Current title: Associate Professor

Interdisciplinary Institute of Neuroscience and Technology

Zhejiang University

Address: KeXuelou 204, Huajiachi Campus, Zhejiang University, China, 310020

Email: wanglang@zju.edu.cn

EDUCATION

1997-2001	An Hui University, China	Biochemistry	B.S.
2001-2006	University of Science and Technology of China	Neurobiology & Biophysics	Ph.D.

PROFESSIONAL EXPERIENCES

2006-2009	Postdoctoral Associate	University of Minnesota
2009-2014	Postdoctoral Associate	State University of New York at Stony Brook
2014-2015	Research Scientist	State University of New York at Stony Brook
2016-present	Associate Professor	Zhejiang University

HONORS AND AWARDS

2005 USTC Excellent Graduate Scholarship

PROFESSIONAL SOCIETIES

Society for Neuroscience in United States	2009-present
SUNY-SEI initiative	2011-present
New York Academy of Sciences	2013-present
Society for Neuroscience in China	2016-present

INVITED TALK

Society for Neuroscience Meeting – Minisymposium	2010

PEER-REVIEWED PUBLICATIONS

1. **Wang L**, Kloc M, Maher E, Erisir A and Maffei A. (2017) Local cortico-thalamic feedback by presynaptic GABAa receptors. (Revised)

2. Krishnan K, Wang BS, Lu J, **Wang L**, Maffei A, Cang J, Huang ZJ. (2015) $MeCP_2$ regulates the timing of critical period plasticity that shapes functional connectivity in primary visual cortex. ***Proc Natl Acad Sci U S A.*** 112(34): E4782-91.

3. **Wang L** and Maffei A. (2014) Inhibitory plasticity dictates the sign of plasticity at excitatory synapses. ***J Neurosci.*** 34 (4): 1083-93. **Featured in: The Journal of Neuroscience, This week in the Journal (2014), 34:i.**

4. **Wang L**, Kloc M, Gu Y, Ge S, Maffei A. (2013) Layer-specific experience-dependent rewiring of thalamocortical circuits. ***J Neurosci.*** 33 (9): 4181-91. **Recommended by Faculty of 1000 (http://f1000.com/prime/717982116)**

5. Griffen TC, **Wang L**, Fontanini A, Maffei A. (2013) Developmental regulation of spatio-temporal patterns of cortical circuit activation. ***Front Cell Neurosci.*** 6 (65).

6. **Wang L**, Fontanini A, Maffei A. (2012) Experience-dependent switch in sign and mechanisms for plasticity in layer 4 of primary visual cortex. ***J Neurosci.*** 32 (31):10562-73.

7. **Wang L**, Fontanini A, Maffei A. (2011) Visual experience modulates spatio-temporal dynamics of circuit activation. ***Front Cell Neurosci.*** 5 (12).

8. Zhao C, **Wang L**, Netoff T, Yuan LL. (2011) Dendritic mechanisms controlling the threshold and timing requirement of synaptic plasticity. ***Hippocampus.*** 21 (3): 288-97.

9. Parent MA, **Wang L**, Su J, Netoff T, Yuan LL. (2010) Identification of hippocampal input to medial prefrontal cortex in vitro. ***Cereb Cortex.*** 20 (2): 393-403.

10. **Wang L**, Yuan LL. (2009) Activation of M2 muscarinic receptors leads to sustained depression of hippocampal transmission in the medi al prefrontal cortex. ***J Physiol.*** 587 (Pt 21): 5139-47.

11. Yan D, **Wang L**, Deng HM, Liu J, Li CC, Wang HL, Chen JT, Tang JL, Ruan DY. (2008) Developmental exposure to lead causes inherent changes on voltage-gated sodium channels in rat hippocampal CA1 neurons. ***Neuroscience.*** 153 (2): 436-45.

12. Yan D, Xiao C, **Wang L**, Luo YY, Liu J, Wang HL, Chen JT, Tang JL, Ruan DY. (2008) Excitatory effects of low-level lead exposure on action potential firing of pyramidal neurons in CA1 region of rat hippocampla slices. ***J Neurosci Res.*** 86 (16): 3665-73.

13. **Wang L**, Luo L, Luo YY, Gu Y, Ruan DY. (2007) Effects of Pb2+ on muscarinic modulation of glutamatergic synaptic transmission in rat hippocampal CA1 area. ***Neurotoxicology.*** 28 (3): 499-507.

14. Xiao C, Gu Y, Zhou CY, **Wang L**, Zhang MM, Ruan DY. (2006) Pb2+ impairs GABAergic synaptic transmission in rat hippocampal slices: a possible involvement of presynaptic calcium channels. ***Brain Res.*** 1088 (1): 93-100.

15. **Wang L**, Yan D, Gu Y, Sun LG, Ruan DY. (2005) Effects of extracellular delta-aminolaevulinic acid on sodium currents in acutely isolated rat hippocampal CA1 neurons. ***Eur J Neurosci.*** 22 (12): 3122-8.

16. Gu Y, **Wang L**, Xiao C, Guo F, Ruan DY. (2005) Effects of Pb2+ on voltage-gated sodium channels in rat hippocampal CA1 neurons. ***Neuroscience.*** 133(3): 679-90.

REVIEWS AND BOOK CHAPTER

Wang L and Maffei A. (2011) The many faces of inhibitory plasticity: adding flexibility to cortical circuits throughout development. Chapter 1 in ***inhibitory Synaptic Plasticity***. Edited by Woodin MA and Maffei A for Springer, New York.

MEETING ABSTRACTS

1. **Wang L**, Parent M, Sullivan S, Miller F and Yuan LL. (2009) D-serine enhanced sustained activity in the medial prefrontal cortex. Society for Neuroscience abstract 423.4, Chicago, IL

2. Maffei A, **Wang L** and Fontanini A. (2010) Critical period for plasticity in visual cortical circuits. FENS.

3. **Wang L**, Fontanini A and Maffei A. (2010) Specific inhibitory circuits modulate the sign of excitatory synaptic plasticity in rodent V1. Cold Spring Harbor Laboratories Meeting on Axon Guidance, Synaptic Plasticity and Regeneration

4. Maffei A, **Wang L** and Fontanini A. (2010) Modulation of inter-laminar circuit activation by visual deprivation. Cold Spring Harbor Laboratories Meeting on Axon Guidance, Synaptic Plasticity and Regeneration.

5. Maffei A, **Wang L** and Fontanini A. (2010) Critical period for plasticity in visual cortical circuits. University of Toronto, Maffei A speaker

6. **Wang L**, Fontanini A and Maffei A. (2010) Inhibition controls the sign of plasticity at excitatory synapses in V1. Society for Neuroscience. San Diego, CA. Minisymposium; **invited talk**

7. Maffei A, **Wang L** and Fontanini A. (2010) Modulation of inter-laminar circuit activation by visual deprivation. Society for Neuroscience, San Diego, CA. Abstract 371.12

8. **Wang L**, Fontanini A and Maffei A. (2010) Inhibition controls the sign of plasticity at excitatory synapses in V1. Cold Spring Harbor Laboratories Meeting: Synapses: From Molecules to Circuits & Behavior, Cold Spring Harbor Laboratories, NY

9. **Wang L**, Fontanini A and Maffei A. (2011) Inhibition rules: Inhibition controls plasticity at excitatory synapses. Alliance Meeting, Stony Brook-CSHL-BNL. Stony Brook, NY, Maffei A speaker

10. **Wang L**, Fontanini A and Maffei A. (2011) Inhibition dictates the sign of plasticity at excitatory synapses. Gordon Research Conference, Inhibition in the CNS, Colby College, ME

11. **Wang L** and Maffei A. (2011) Inhibitory control of neocortical circuit activity and plasticity. Society for Neuroscience Symposium talk, Washington, DC, Maffei A speaker

12. **Wang L**, Fontanini A and Maffei A. (2011) Inhibition dictates the sign of plasticity at excitatory synapses in V1. Cold Spring Harbor Laboratories Meeting on Synapses: From Molecules to Circuits & Behavior.

13. **Wang L** and Maffei A. (2011) Layer specific properties of thalamocortical inputs in primary visual cortex. Society for Neuroscience, Washington, DC

14. **Wang L** and Maffei A. (2012) Inhibitory control of neocortical circuit activity and plasticity. Workshop, CoSyne Meeting, Snowbird, Utah

15. **Wang L** and Maffei A. (2012) Layer specific rewiring of thalamocortical connectivity. FASEB, Steamboat Springs, Colorado

16. Kloc M, **Wang L**, Maffei A. (2012) Synaptic properties of thalamocortical inputs onto excitatory and inhibitory neurons in mouse primary visual cortex. Society for Neuroscience meeting, New Orleans, LA

17. **Wang L**, Kloc M, Maher E, Erisir A and Maffei A. (2014) Local corticothalamic feedback via presynaptic GABAa receptors on thalamocortical terminals in rat V1. Society for Neuroscience meeting, Washington, DC