

ION Publication List

(2011.01-2011.12)

1. He, S., Zhang, Z., Guan, J., Liu, H., Zhao, B., Wang, H., Li, Q., Yang, H., Luo, J., Li, Z., Wang, Q., Lu, Y., Bao, L.* and **Zhang, X.*** (2011) Facilitation of μ -opioid receptor activity by preventing δ -opioid receptor-mediated codegradation. *Neuron* 69: 120-131.
2. Huang, Z., Wang, Y., Su, Z., Geng, J., Chen, Y., **Yuan, X.***, and He, C.* (2011) Slit-2 repels the migration of olfactory ensheathing cells by triggering Ca^{2+} -dependent cofilin activation and RhoA inhibition. *J. Cell Sci.* 124: 186-197.
3. Zhou, Q., Li, J., Wang, H., Yin, Y., and **Zhou, J.*** (2011) Identification of nigral dopaminergic neuron-enriched genes in adult rats. *Neurobiol. Aging* 32: 313-326.
4. Cheng, X., Li, Y., Huang, Y., Feng, X., Feng, G., and **Xiong, Z.*** (2011) Pulse labeling and long-term tracing of newborn neurons in the adult subgranular zone. *Cell Res.* 21: 338-349.
5. Duan, B., Wang, Y., Yang, T., Chu, X., Yu, Y., Huang, Y., Cao, H., Hansen, J., Simon, R., Zhu, M., Xiong, Z., and **Xu, T.*** (2011) Extracellular spermine exacerbates ischemic neuronal injury through sensitization of ASIC1a channels to extracellular acidosis. *J. Neurosci.* 31: 2101-2112.
6. Xiao, H., Li, Y., **Du, J.,*** and Mosig, A.* (2011) Ct3d: tracking microglia motility in 3D using a novel cosegmentation approach. *Bioinformatics* 27: 564-571.
7. Yang, G., Liang, B., Zhu, J., and **Luo, Z.*** (2011) Calpain activation by wingless-type MMTV integration site family, member 5A (Wnt5a) promotes axonal growth. *J. Biol. Chem.* 286: 6566-6576.
8. **Rasch, M.***, Schuch, K., Logothetis, N., and Maass, W. (2011) Statistical comparison of spike responses to natural stimuli in monkey area V1 with simulated responses of a detailed laminar network model for a patch of V1. *J. Neurophysiol.* 105: 757-778.
9. Gong, L., He, L., Dong, Z., Lu, X., **Poo, M.***, and **Zhang, X.*** (2011) Postinduction requirement of NMDA receptor activation for late-phase long-term potentiation of developing retinotectal synapses in vivo. *J. Neurosci.* 31: 3328-3335.
10. Li, K., Zhang, F., Li, C., Wang, F., Yu, M., Zhong, Y., Zhang, K., Lu, Y., Wang, Q., Ma, X., Yao, J., Wang, J., Lin, L., Han, M., Zhang, Y., Kuner, R., Xiao, H., Bao, L., Gao, X.* and **Zhang, X.*** (2011) Follistatin-like 1 suppresses sensory afferent transmission by activating Na^+ , K^+ -ATPase. *Neuron* 69: 974-987.
11. Wang, C., and **Yao, H.*** (2011) Sensitivity of V1 neurons to direction of spectral motion. *Cereb. Cortex* 21: 964-973.

12. Zhu, J., Jiang, M., Yang, M., Hou, H., and **Shu, Y.*** (2011) Membrane potential-dependent modulation of recurrent inhibition in rat neocortex. *PLoS Biol.* 9: e1001032.
13. Li, K., Wang, F., Zhong, Y., Lu, Y., Wang, Q., Zhang, F., Xiao, H., Bao, L., and **Zhang, X.*** (2011) Reduction of follistatin-like 1 in primary afferent neurons contributes to neuropathic pain hypersensitivity. *Cell Res.* 21: 697-699.
14. Zhao, B., Wang, H., Lu, Y., Hu, J., Bao, L., and **Zhang, X.*** (2011) Transport of receptors, receptor signaling complexes and ion channels via neuropeptide-secretory vesicles. *Cell Res.* 21: 741-753.
15. Shang, C., Dan, Y., **Poo, M.***, and Wang, Z.* (2011) Periodic stimulation induces long-range modulation of cortical responses and visual perception. *J. Physiol.* 589: 3125-3133.
16. Liu, Y., Huang, T., Zhao, X., and **Cheng, L.*** (2011) MicroRNAs modulate the Wnt signaling pathway through targeting its inhibitors. *Biochem. Biophys. Res. Commun.* 408: 259-264.
17. Hu, X., Chen, X., Cai, L., Tan, G., Xu, L., Feng, X., Lu, T., Xiong, H., Fei, J., and **Xiong, Z.*** (2011) Conditional deletion of NRSF in forebrain neurons accelerated epileptogenesis in the kindling model. *Cereb. Cortex.* 21: 2158-2165.
18. Yu, Y., Li, W., Chen, Z., Cao, H., Yang, H., Jiang, H.*, and **Xu, T.*** (2011) Atomic level characterization of the nonproton ligand-sensing domain of ASIC3 channels. *J. Biol. Chem.* 286: 24996-25006.
19. Wang, T., Liu, Y., Xu, X., Deng, C., Wu, K., Zhu, J., Fu, X., He, M., and **Luo, Z.*** (2011) Lgl1 activation of Rab10 promotes axonal membrane trafficking underlying neuronal polarization. *Dev. Cell* 21: 431-444.
20. Hu, X., Cheng, X., Fei, J.*, and **Xiong, Z.*** (2011) Neuron-restrictive silencer factor is not required for the antiepileptic effect of the ketogenic diet. *Epilepsia* 52: 1609-1616.
21. Wang, F., Zhu, J., Zhu, H., Zhang, Q., Lin, Z., **Hu, H.*** (2011) Bidirectional control of social hierarchy by synaptic efficacy in medial prefrontal cortex. *Science* 334, 693-697.
22. Huang, Z., Wang, Y., **Yuan, X.***, and He, C.* (2011) RhoA-ROCK-Myosin pathway regulates morphological plasticity of cultured olfactory ensheathing cells. *Exp. Cell Res.* 317: 2823-2834.
23. Wang, K., Guo, Y., Wang, F., and **Wang, Z.*** (2011) *Drosophila* TRPA channel painless inhibits male-male courtship behavior through modulating olfactory sensation. *PLoS One* 6: e25890.
24. Bao, G., Wang, W., Wang, T., Huang, J., He, H., Liu, Z.*, and **Huang, F.*** (2011) Overexpression of human MRP1 in neurons causes resistance to antiepileptic drugs in *Drosophila* seizure mutants. *J. Neurogenet.* 25: 201-206.
25. Wang, K., Liu, Y., Li, Y., Guo, Y., Song, P., **Zhang, X.***, Zeng, S.*, and **Wang, Z.*** (2011)

- Precise spatiotemporal control of optogenetic activation using an acousto-optic device. *PLoS One* 6: e28468.
26. Li, W., Yu, Y., Huang, C., Cao, H., and **Xu, T.*** (2011) Nonproton Ligand Sensing Domain Is Required for Paradoxical Stimulation of Acid-sensing Ion Channel 3 (ASIC3) Channels by Amiloride. *J. Biol. Chem.* 286: 42635-42646.
 27. Li, W., and **Xu, T.*** (2011) ASIC3 Channels in multimodal sensory perception. *ACS Chemical Neuroscience* 2: 26-37. (Review)
 28. **Yu, X.*** (2011) Tools for studying the role of N-cadherin mediated extracellular interaction in neuronal development and function. *Cell Adhesion & Migration* 5: 227-231. (Review)
 29. Yang, G., and **Luo, Z.*** (2011) Implication of Wnt signaling in neuronal polarization. *Dev. Neurobiol.* 71: 495-507. (Review)
 30. Yu, P.* & **Du, J.*** (2011) Transient receptor potential canonical channels in angiogenesis and axon guidance. *Cell Mol Life Sci.* 68: 3815-3821. (Review)
 31. Wang, Y., and Xu, T.* (2011) Acidosis, acid-sensing ion channels, and neuronal cell death. *Mol. Neurobiol.* 44: 350-835. (Review)
 32. Huang, J., Du, W., Yao, H., and **Wang Y.*** (2011) TRPC Channels in Neuronal Survival. *TRP Channels, Edited by Michael X. Zhu, CRC Press.* Chapter10: 219-236.

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