

ION Publication List

(2009.01-2009.12)

1. Lu, S., Fang, J., Guo, A., and **Peng, Y.*** (2009) Impact of network topology on decision-making. *Neural Netw.* 22: 30-40.
2. Jiang, P., Kong, Y., Zhang, X., Wang, W., Liu, C., and **Xu, T.*** (2009) Glycine receptor in rat hippocampal and spinal cord neurons as a molecular target for rapid actions of 17-b-estradiol. *Mol. Pain* 5: 2.
3. Peng, Y., He, S., Marie, H., Zeng, S., Ma, J., Tan, Z., Lee, S., Malenka, R.*, and **Yu, X.*** (2009) Coordinated changes in dendritic arborization and synaptic strength during neural circuit development. *Neuron* 61: 71-84.
4. Yao, H., Zhou, K., Yan, D., Li, M., and **Wang, Y.*** (2009) The Kv2.1 channels mediate neuronal apoptosis induced by excitotoxicity. *J. Neurochem.* 108: 909-919.
5. Luo, X., Zhang, X., Shao, W., Yin, Y., and **Zhou, J.*** (2009) Crucial roles of MZF-1 in the transcriptional regulation of apomorphine-induced modulation of FGF-2 expression in astrocytic cultures. *J. Neurochem.* 108: 952-961.
6. Liu, T., Dartevelle, L., Yuan, C., Wei, H., Wang, Y., Ferveur, J*, and **Guo, A.*** (2009) Reduction of dopamine level enhances the attractiveness of male *Drosophila* to other males. *PLoS ONE* 4: e4574.
7. Li, S., Zhang, C., Takemori, H., Zhou, Y.*, and **Xiong, Z.*** (2009) TORC1 regulates activity-dependent CREB-Target gene transcription and dendritic growth of developing cortical neurons. *J. Neurosci.* 29: 2334-2343.
8. **Wen, Y.***, and Zhang, Q. (2009) Ensemble cortical responses to rival visual stimuli: effect of monocular transient. *Biochem.Bioph. Res. Co.* 380: 105-110.
9. Song, A., Wang, D., Chen, G., Li, Y., Luo, J., **Duan, S.***, and **Poo, M.*** (2009) A selective filter for cytoplasmic transport at the axon initial segment. *Cell* 136: 1148-1160.
10. Zhou, X., and **Luo, Z.*** (2009) Regulation of protein prenyltransferase in central neurons. *Commun Integr Biol.* 2: 138-140.
11. Yang, S., Cao, Q., Zhou, K., Feng, Y., and **Wang, Y.*** (2009) Transient receptor potential channel C3 contributes to the progression of human ovarian cancer. *Oncogene* 28: 1320-1328.
12. Yin, M., Liu, S., Yin, Y., Li, S., Wu, X., Ang, S., Ding, Y., and **Zhou, J.*** (2009) Ventral mesencephalon-enriched genes that regulate the development of dopaminergic neurons in vivo. *J. Neurosci.* 29: 5170-5182.

13. Gao, L., Meng, X., Ye, C., Zhang, H., Liu, C., Dan, Y., Poo, M., He, J.*, and **Zhang, X.*** (2009) Entrainment of slow oscillations of auditory thalamic neurons by repetitive sound stimuli. *J. Neurosci.* 29: 6013-6021.
14. Qiu, L., Lu, T., Hu, X., Yi, Y., Liao, W., and **Xiong, Z.*** (2009) Limbic epileptogenesis in a mouse model of fragile X syndrome. *Cereb. Cortex.* 19: 1504-1514.
15. Zhang, X., Zhou, Z., Wang, D., Li, A., Yin, Y., Gu, X., Ding, F., Zhen, X.*, and **Zhou, J.*** (2009) Activation of phosphatidylinositol-linked D1-like receptor modulates FGF-2 expression in astrocytes via IP3-dependent Ca²⁺ signaling. *J. Neurosci.* 29: 7766-7775.
16. Yang, H., Yu, Y., Li, W., Yu, F., Cao, H., **Xu, T.***, and Jiang, H.* (2009) Inherent dynamics of the acid-sensing ion channel 1 correlates with the gating mechanism. *PLoS Biol.* 7: e1000151.
17. Tong, X., Li, X., Zhou, B., Shen, W., Zhang, X., Xu, T., and **Duan, S.*** (2009) Ca²⁺ signaling evoked by activation of Na⁺ channels and Na⁺/Ca²⁺ exchangers is required for GABA-induced NG2 cell migration. *J. Cell Biol.* 186: 113-128.
18. Ge, R., Tai, Y., Sun, Y., Zhou, K., Yang, S., Cheng, T., Zou, Q., Shen, F.*, and **Wang, Y.*** (2009) Critical role of TRPC6 channels in VEGF-mediated angiogenesis. *Cancer Lett.* 283: 43-51.
19. Hu, W., Tian, C., Li, T., Yang, M., Hou, H., and **Shu, Y.*** (2009) Distinct contributions of Nav1.6 and Nav1.2 in action potential initiation and backpropagation. *Nat. Neurosci.* 12: 996-1002.
20. Song, C.*, and **Yao, H.** (2009) Duality in binocular rivalry: distinct sensitivity of percept sequence and percept duration to imbalance between monocular stimuli. *PLoS ONE* 4(9): e6912.
21. Tan, Z., and **Yao, H.*** (2009) The Spatiotemporal Frequency Tuning of LGN Receptive Field Facilitates Neural Discrimination of Natural Stimuli. *J. Neurosci.* 29: 11409-11416.
22. Zhu, X., Liu, Y., Yin, Y., Shao, A., Zhang, B., Kim, S., and **Zhou, J.*** (2009) MSC p43 required for axonal development in motor neurons. *Proc. Natl. Acad. Sci. USA.* 106: 15944-15949.
23. Zhang, S., Xu, M., Miao, Q., **Poo, M.***, and **Zhang, X.*** (2009) Endocannabinoid-dependent homeostatic regulation of inhibitory synapses by miniature excitatory synaptic activities. *J. Neurosci.* 29: 13222-13231.
24. Shi, Y., Ding, X., He, Z., Zhou, K., Wang, Q.*, and **Wang, Y.*** (2009) Critical role of TRPC6 channels in G2 phase transition and the development of human esophageal cancer. *GUT* 58: 1443-1450.
25. Cai, R., Ding, X., Zhou, K., Shi, Y., Ge, R., Ren, G., Jin, Y., and **Wang, Y.*** (2009)

- Blockade of TRPC6 channels induced G2/M phase arrest and suppressed growth in human gastric cancer cells. *Int. J. Cancer* 125: 2281-2287.
26. Chen, M., Chen, Q., Cheng, X., Lu, T., Liu, H., Jia, J., Zhang, C., Xu, L., and **Xiong, Z.*** (2009) Zn²⁺ mediates ischemia-induced impairment of the ubiquitin-proteasome system in the rat hippocampus. *J. Neurochem.* 111: 1094-1103.
 27. Li, X., Yu, F., and **Guo, A.*** (2009) Sleep Deprivation Specifically Impairs Short-term Olfactory Memory in Drosophila. *Sleep* 32: 1417-1424.
 28. Zhao, C., Li, K., Li, J., Zheng, W., Liang, X., Geng, A., Li, N., and **Yuan, X.*** (2009) PKC δ regulates cortical radial migration by stabilizing the Cdk5 activator p35. *Proc. Natl. Acad. Sci. USA.* 106: 21353-21358.
 29. Gong, N., Li, Y., Cai, G., Niu, R., Fang, Q., Wu, K., Chen, Z., Lin, L., Xu, L., Fei, J., and **Xu, T.*** (2009) GABA Transporter-1 Activity Modulates Hippocampal Theta Oscillation and Theta Burst Stimulation-Induced Long-Term Potentiation. *J. Neurosci.* 29: 15836-15845.
 30. Hao, J., Wang, X., Dan, Y., **Poo, M.***, and **Zhang, X.*** (2009) An arithmetic rule for spatial summation of excitatory and inhibitory inputs in pyramidal neurons. *Proc. Natl. Acad. Sci. USA.* 106: 21906-21911.

 31. **Xu, T.***, and Duan, B. (2009) Calcium-permeable acid-sensing ion channel in nociceptive plasticity: a new target for pain control. *Prog. Neurobiol.* 87: 171-180. (Review)
 32. Zhou, Y., Lu, T., and **Xiong, Z.*** (2009) NGF-dependent retrograde signaling: survival versus death. *Cell Res.* 19: 525-526. (Preview)
 33. Tai, Y., Feng, S., Du, W., and **Wang, Y.*** (2009) Functional roles of TRPC channels in the developing brain. *Pflugers Arch.* 458: 283-289. (Review)

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