

ION Publication List

(2005.01-2005.12)

1. Wu, B., Wang, Y., Xiong, W., Zheng, L., Fu, C., Bruce, I., Zhang, C., and **Zhou, Z.*** (2005) Optimization of a multi-channel puffer system for rapid delivery of solutions during patch-clamp experiments. *Front Biosci.* 10: 761-767.
2. Jiang, H., Guo, W., Liang, X., and **Rao, Y.*** (2005) Both the Establishment and the Maintenance of Neuronal Polarity Require Active Mechanisms: Critical Roles of GSK-3 β and Its Upstream Regulators. *Cell* 120: 123-135.
3. Ji, Y., Pang, P., Feng, L., and **Lu, B.*** (2005) Cyclic AMP Controls BDNF-induced TrkB Phosphorylation and Dendritic Spine Formation in Mature Hippocampal Neurons. *Nat. Neurosci.* 8: 164-172.
4. Weng, S., Sun, W., and **He, S.*** (2005) Identification of ON-OFF Direction-Selective Ganglion Cells in the Mouse Retina. *J. Physiol.* 562: 915-923.
5. Jin, M., Guan, C., Jiang, Y., Chen, G., Zhao, C., Cui, K., Song, Y., Wu, C., **Poo, M.***, and **Yuan, X.*** (2005) Ca²⁺-dependent regulation of rho GTPases triggers turning of nerve growth cones. *J. Neurosci.* 25: 2338-2347.
6. Huang, H.*, Li, H., and He, S. (2005) Identification of connexin 50 and 57 mRNA in A-type horizontal cells of the rabbit retina. *Cell Res.* 15: 207-211.
7. Chen, G., Dan, Y., and **Li, C.*** (2005) Stimulation of Non classical Receptive Field Enhances Orientation selectivity. *J. Physiol. (Lond)* 564: 233-243.
8. Li, Y., Jia, Y., Cui, K., Li, N., Zheng, Z., **Wang, Y.***, and **Yuan, X.*** (2005) Essential role of TRPC channels in the guidance of nerve growth cones by brain-derived neurotrophic factor. *Nature* 434: 894-898.
9. Jiang, H., and **Rao, Y.*** (2005) Axon formation: fate versus growth. *Nat. Neurosci.* 8: 544-546.
10. Zhou, X., Yuan, C., and **Guo, A.*** (2005) Drosophila Olfactory Response Rhythms Require Clock Genes but Not Pigment Dispersing Factor or Lateral Neurons. *J. Biol. Rhythm.* 20: 237-244.
11. Jin, L., Hu, X., and **Feng, L.*** (2005) NT3 inhibits FGF2-induced neural progenitor cell proliferation via the PI3K/GSK3 pathway. *J. Neurochem.* 93: 1251-1261.
12. Pan, P., Cai, Q., Lin, L., Lu, P., **Duan, S.*** and Sheng, Z.* (2005) SNAP-29-mediated Modulation of Synaptic Transmission in Cultured Hippocampal Neurons. *J. Biol.Chem.* 280: 25769-25779.

13. Guo, J., and **Guo, A.*** (2005) Crossmodal Interactions Between Olfactory and Visual Learning in *Drosophila*. *Science* 309: 307-310.
14. Xu, TX., Gong, N., and **Xu TL.*** (2005) Inhibitors of GlyT1 and GlyT2 differentially modulate inhibitory transmission. *Neuroreport* 16: 1227-1231.
15. Guan, J., Xu, Z., Gao, H., He, S., Ma, G., Sun, T., Wang, L., Zhang, Z., Lena, I., Kitchen, I., Elde, R., Zimmer, A., He, C., Pei, G., Bao, L. and **Zhang, X.*** (2005) Interaction with vesicle luminal protachykinin regulates surface expression of δ -opioid receptors and opioid analgesia. *Cell* 122: 619-631.
16. Chen, X., Wang, L., Zhou, Y., Cai, Q., Prakriya, M., Duan, K., Sheng, Z., Lingle, C., and **Zhou, Z.*** (2005) Activation of GPCRs modulates quantal size in chromaffin cells through $G_{\beta\gamma}$ and PKC. *Nat. Neurosci.* 8: 1160-1168.
17. Tao, Y., Zeng, R., Shen, B., Jia, J., and **Wang Y.*** (2005) Neuronal transmission stimulates the phosphorylation of Kv1.4 channel at Ser229 through protein kinase A1. *J. Neurochem.* 94: 1512-1522.
18. Chen, X., Wang, L., Zhou, Y., Zheng, L., and **Zhou, Z.*** (2005) "Kiss-and-run" glutamate secretion in cultured and freshly isolated rat hippocampal astrocytes. *J. Neurosci.* 25: 9236-9243.
19. Xu, W., Shen, Z., and **Li, C.*** (2005) Spatial Phase Sensitivity of V1 Neurons in Alert Monkey. *Cereb. Cortex* 15: 1697-1702.
20. Xu, X., Fu, A., Ip, F., Wu, C., Duan, S., Poo, M., Yuan, X., and **Ip, N.*** (2005) Agrin regulates growth cone turning of *Xenopus* spinal motoneurons. *Development* 132: 4309-4316.
21. Kuai, S., Zhang, J., Klein, S.A., Levi, D.M., and **Yu, C.*** (2005) The essential role of stimulus temporal patterning in enabling perceptual learning. *Nat. Neurosci.* 8: 1497-1499.
22. Gao, J., Duan, B., Wang, D., Deng, X., Zhang, G., Xu, L., and **Xu, T.*** (2005) Coupling between NMDA Receptor and Acid-Sensing Ion Channel Contributes to Ischemic Neuronal Death. *Neuron* 48: 635-646.
23. **Zhang, X.,*** and Xiao, H. (2005) Gene array analysis to determine the components of neuropathic pain signaling. *Current Opinion in Molecular Therapeutics* 7: 532-537. (Review)

*** Corresponding Authors**