

# Featured Publications

(2005.01-2005.12)

1. 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 $\beta$  and Its Upstream Regulators. *Cell* 120: 123-135.
2. 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.
3. Jin, M., Guan, C., Jiang, Y., Chen, G., Zhao, C., Cui, K., Song, Y., Wu, C., **Poo, M.,\*** and **Yuan, X.\*** (2005) Ca<sup>2+</sup>-dependent regulation of rho GTPases triggers turning of nerve growth cones. *J. Neurosci.* 25: 2338-2347.
4. 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.
5. Guo, J., and **Guo, A.\*** (2005) Crossmodal Interactions Between Olfactory and Visual Learning in Drosophila. *Science* 309: 307-310.
6. 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  $\delta$ -opioid receptors and opioid analgesia. *Cell* 122: 619-631.
7. 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.
8. 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.
9. 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.
10. 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.

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