

Featured Publications

(2010.01-2010.12)

1. Zhao, X., Wang, W., Tan, J., Huang, J., Zhang, X., Zhang, B., Wang, Y., YangCheng, H., Zhu, H., Sun, X., and **Huang, F.*** (2010) Expression of β -Amyloid Induced Age-Dependent Presynaptic and Axonal Changes in Drosophila. *J. Neurosci.* 30: 1512-1522.
2. Ye, C., Poo, M., Dan, Y.*, and **Zhang, X.*** (2010) Synaptic Mechanisms of Direction Selectivity in Primary Auditory Cortex. *J. Neurosci.* 30: 1861-1868.
3. Yu, P., Gu, S., Bu, J., and **Du, J.*** (2010) TRPC1 is essential for in vivo angiogenesis in zebrafish. *Circ. Res.* 106: 1221-1232.
4. Chen, Z., Wang, Q., and **Wang, Z.*** (2010) The Amiloride-Sensitive Epithelial Na⁺ Channel PPK28 Is Essential for Drosophila Gustatory Water Reception. *J. Neurosci.* 30: 6247-6252.
5. Pan, X., Gong, N., Zhao, J., Yu, Z., Gu, F., Chen, J., Sun, X., Zhao, L., Yu, M., Xu, Z., Dong, W., Qin, Y., Fei, G., Zhong, C.*, and **Xu, T.*** (2010) Powerful beneficial effects of benfotiamine on cognitive impairment and beta-amyloid deposition in amyloid precursor protein/presenilin-1 transgenic mice. *Brain* 133: 1342-1351.
6. Tan, Z., Peng, Y., Song, H., Zheng, J., and **Yu, X.*** (2010) N-cadherin-dependent neuron–neuron interaction is required for the maintenance of activity-induced dendrite growth. *Proc. Natl. Acad. Sci. USA.* 107: 9873-9878.
7. Hu, A., Zhang W., and **Wang, Z.*** (2010) Functional feedback from mushroom bodies to antennal lobes in the Drosophila olfactory pathway. *Proc. Natl. Acad. Sci. USA.* 107: 10262-10267.
8. He, S., Ma, J., Liu, N., and **Yu, X.*** (2010) Early enriched environment promotes neonatal GABAergic neurotransmission and accelerates synapse maturation. *J. Neurosci.* 30: 7910-7916.
9. Wang, H., Zhao, B., Zhong, Y., Li, K., Li, Z., Wang, Q., Lu, Y., Zhang, Z., He, S., Zheng, H., Wu, S., Hökfelt, T.*, Bao, L.*, and **Zhang, X.*** (2010) Coexpression of δ - and μ -opioid receptors in nociceptive sensory neurons. *Proc. Natl. Acad. Sci. USA.* 107: 13117-13122.
10. Ding, X., He, Z., Zhou, K., Cheng, J., Yao, H., Lu, D., Cai, R., Jin, Y., Dong, B., Xu, Y., and **Wang, Y.*** (2010) Essential Role of TRPC6 Channels in G2/M Phase Transition and Development of Human Glioma. *J. Natl. Cancer Inst.* 102: 1052-1068.
11. He, M., Zhang, Z., Guan, C., Xia, D., and **Yuan, X.*** (2010) Leading tip drives soma translocation via forward F-Actin flow during neuronal migration. *J. Neurosci.* 30: 10885-10898.

12. Zhang, F., Liu, X., Gong, L., Yao, J., Li, K., Li, Z., Lin, L., Lu, Y., Xiao, H., Bao, L., Zhang, X., and **Zhang, X.*** (2010) Inhibition of inflammatory pain by activating B-Type natriuretic peptide signal pathway in nociceptive sensory neurons. *J. Neurosci.* 30: 10927-10938.
13. Wang, J., Fu, X., Lei, W., Wang, T., Sheng, A., and **Luo, Z.*** (2010) Nuclear Factor κ B Controls Acetylcholine Receptor Clustering at the Neuromuscular Junction. *J. Neurosci.* 30: 11104-11113.
14. Chen, Q., Zhu, Y., Yu, J., Miao, S., Zheng, J., Xu, L., Zhou, Y., Li, D., Zhang, C., Tao, J., and **Xiong, Z.*** (2010) CDKL5, a protein associated with rett syndrome, regulates neuronal morphogenesis via rac1 signaling. *J. Neurosci.* 30: 12777-12786.
15. Huang, J., Zhang, W., Qiao, W., Hu, A., and **Wang, Z.*** (2010) Functional connectivity and selective odor responses of excitatory local interneurons in Drosophila antennal lobe. *Neuron* 67: 1021-1033.
16. Yu, Y., Chen, Z., Li, W., Cao, H., Feng, E., Yu, F., Liu, H., Jiang, H. *, and **Xu, T.*** (2010) A nonproton ligand sensor in the Acid-sensing ion channel. *Neuron* 68: 61-72.
17. Du, W., Huang, J., Yao, H., Zhou, K., Duan, B., and **Wang, Y.*** (2010) Inhibition of TRPC6 degradation suppresses ischemic brain damage in rats. *J. Clin. Invest.* 120: 3480-3492.
18. Peng, Y., Zeng, S., Song, H., Li, M., Yamada, M., and **Yu, X.*** (2010) Postsynaptic Spiking Homeostatically Induces Cell-Autonomous Regulation of Inhibitory Inputs via Retrograde Signaling. *J. Neurosci.* 30: 16220-16231.
19. **Zhang, X.***, Bao, L.*, and Ma, G. (2010) Sorting of neuropeptides and neuropeptide receptors into secretory pathways. *Prog. Neurobiol.* 90: 276-283. (Review)
20. **Xu, T.***, and Gong, N. (2010) Glycine and glycine receptor signaling in hippocampal neurons: diversity, function and regulation. *Prog. Neurobiol.* 91: 349-361. (Review)

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