

# Featured Publications

(2015.01-2015.12)

1. Li, Y., Wang, J., Zhou, Y., Li, D., and **Xiong, Z.\*** (2015) Rcan1 deficiency impairs neuronal migration and causes periventricular heterotopias. *J. Neurosci.* 35: 610-620.
2. Chang, L., Fang, Q., Zhang, S., Poo, M., and **Gong, N.\*** (2015) Mirror-induced self-directed behaviors in rhesus monkeys after visual-somatosensory training. *Curr. Biol.* 25: 212-217.
3. Chen, X., Ruan, M., and **Cai, S.\*** (2015) KChIP-like auxiliary subunits of Kv4 channels regulate excitability of muscle cells and control male turning behavior during mating in *Caenorhabditis elegans*. *J. Neurosci.* 35: 1880-1891.
4. Wang, F., Cai, B., Li, K., Hu, X., Lu, Y., Wang, Q., Bao, L., and **Zhang, X.\*** (2015) FXYD2, a  $\gamma$  subunit of  $\text{Na}^+\text{K}^+$ -ATPase, maintains persistent mechanical allodynia induced by inflammation. *Cell Res.* 25: 318-334.
5. Wang, B., Yin, L., Zou, X., Ye, M., Liu, Y., He, T., Deng, S., Jiang, Y., Zheng, R., Wang, Y., Yang, M., Lu, H., Wu, S., and **Shu, Y.\*** (2015) A subtype of inhibitory interneuron with intrinsic persistent activity in human and monkey neocortex. *Cell Rep.* 10: 1450-1458.
6. Zhu, Y., Qiao, W., Liu, K., Zhong, H., **Yao, H.\*** (2015) Control of response reliability by parvalbumin-expressing interneurons in visual cortex. *Nat. Commun.* 6: 6802.
7. Li, J., Zhang, B., Ren, Y., Gu, S., Xiang, Y., Huang, C., and **Du, J.\*** (2015) Intron targeting-mediated and endogenous gene integrity-maintaining knockin in zebrafish using the CRISPR/Cas9 system. *Cell Res.* 25: 634-637.
8. Jiang, J., Zhang, Z., Yuan, X., and **Poo, M.\*** (2015) Spatiotemporal dynamics of traction forces show three contraction centers in migratory neurons. *J. Cell Biol.* 209: 759-774.
9. Liu, Y., Miao, Q., Yuan, J., Han, S., Zhang, P., Li, S., Rao, Z., Zhao, W., Ye, Q., Geng, J., Zhang, X.\*, and **Cheng, L.\*** (2015) *Ascl1* converts dorsal midbrain astrocytes into functional neurons in vivo. *J. Neurosci.* 35: 9336-9355.
10. Wang, L., Chang, X., She, L., Xu, D., Huang, W., and **Poo, M.\*** (2015) Autocrine action of BDNF on dendrite development of adult-born hippocampal neurons. *J. Neurosci.* 35: 8384-8393.
11. Zhu, S., Zhao, C., Wu, Y., Yang, Q., Shao, A., Wang, T., Wu, J., Yin, Y., Li, Y., Hou, J., Zhang, X., Zhou, G., Gu, X., Wang, X., Bustelo, X., and **Zhou, J.\*** (2015) Identification of a Vav2-dependent mechanism for GDNF/Ret control of mesolimbic DAT trafficking. *Nat. Neurosci.* 18: 1084-1093.
12. Li, J.\*, Zhang, B., Bu, J., and **Du, J.\*** (2015) Intron-based genomic editing: a highly efficient

method for generating knockin zebrafish. *Oncotarget* 6: 17891-17894.

13. Liu, H., Wu, Q., Li, J., Liu, X., Li, K., Zhong, Y., Wu, D., Wang, Q., Lu, Y., Bao, L., and **Zhang, X.\*** (2015) Fibroblast growth factor 7 is a nociceptive modulator secreted via large dense-core vesicles. *J. Mol. Cell Biol.* 7: 466-475.
14. Bian, W., Miao, W., He, S., Qiu, Z., and **Yu, X.\*** (2015) Coordinated spine pruning and maturation mediated by inter-spine competition for cadherin/catenin complexes. *Cell* 162: 808-822.
15. Shang, C., Li, X., Yin, C., Liu, B., Wang, Y., Zhou, Z.\*, and **Du, J.\*** (2015) Amperometric monitoring of sensory-evoked dopamine release in awake larval zebrafish. *J. Neurosci.* 35: 15291-15294.
16. Wang, J., Lu, R., Yang, J., Li, H., He, Z., Jing, N., Wang, X.\*, and Wang, Y.\* (2015) TRPC6 specifically interacts with APP to inhibit its cleavage by  $\gamma$ -secretase and reduce A $\beta$  production. *Nat. Commun.* 6: 8876.

**\* Corresponding Authors**