ION Publication List

（2015.01-2015.12）

1. Jiang, M., Yang, M., Yin, L., Zhang, X., and Shu, Y.* (2015) Developmental reduction of asynchronous GABA release from neocortical fast-spiking neurons. ***Cereb. Cortex*** 25: 258-270.
2. Wang, T., Jiang, X., Chen, G., and **Xu, J.*** (2015) Interaction of amyotrophic lateral sclerosis/frontotemporal lobar degeneration–associated fused-in-sarcoma with proteins involved in metabolic and protein degradation pathways. ***Neurobiol. Aging*** 36: 527-535.
3. 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.
4. Xin, Y., Yuan, B., Yu, B., Wang, Y., Wu, J., Zhou, W.*, and **Qiu, Z.*** (2015) Tet1-mediated DNA demethylation regulates neuronal cell death induced by oxidative stress. ***Sci. Rep.*** 5: 7645.
5. 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.
6. 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.
7. Wang, F., Cai, B., Li, K., Hu, X., Lu, Y., Wang, Q,, Bao, L., and **Zhang, X.*** (2015) FXYD2, a γ subunit of Na^+,K^+-ATPase, maintains persistent mechanical allodynia induced by inflammation. ***Cell Res.*** 25: 318-334..
8. 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.
9. 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.
10. 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.
11. Zhang, R., Huang, M., Cao, Z., Qi, J., **Qiu, Z.*,** and Chiang, L.* (2015) MeCP2 plays an analgesic role in pain transmission through regulating CREB / miR-132 pathway. ***Mol. Pain*** 11: 19.
12. 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.

13. Pu, J., Wang, J., Yu, W., Shen, Z., Lv, Q., Zhang, C., Sun, B., Liu, G., **Wang, Z.*** (2015) Discriminative structured feature engineering for macroscale brain connectomes. ***IEEE Trans Med Imaging*** 10: 1109.
14. 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.
15. Zhao, P., Yao, M., Chang, S., Gou, L., Liu, M., Qiu, Z., and Yuan, X.* (2015) Novel function of PIWIL1 in neuronal polarization and migration via regulation of microtubule-associated proteins. ***Mol. Brain*** 8: 39.
16. 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.
17. Liu, Y., Zhou, Q., Tang, M., Fu, N., Shao, W., Zhang, S., Yin, Y., Zeng, R., Wang, X., Hu, G., and **Zhou, J.*** (2015) Upregulation of alphaB-crystallin expression in the substantia nigra of patients with Parkinson's disease. ***Neurobiol. Aging*** 36: 1686-1691.
18. Bian, W., Miao, W., He, S., Wan, Z., Luo, Z., and **Yu, X.*** (2015) A novel Wnt5a-Frizzled4 signaling pathway mediates activity-independent dendrite morphogenesis via the distal PDZ motif of Frizzled 4. ***Dev. Neurobiol.*** 75: 805-822.
19. Ma, X., Zhang, F., Dong, F., Bao, L., and **Zhang, X.*** (2015) Experimental evidence for alleviating nociceptive hypersensitivity by single application of capsaicin. ***Mol. Pain*** 11: 22.
20. Yin, J., Gong, H., An, X., Chen, Z., Lu, Y.*, Andolina, I., McLoughlin, N., and **Wang, W.*** (2015) Breaking cover: neural responses to slow and fast camouflage-breaking motion. ***Proc. R. Soc. B*** 282: 1813.
21. 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.
22. 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.
23. 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.
24. Li, S., Wang, J., Wei, Y., Liu, Y., Ding, X., Dong, B.*, Xu, Y.*, and **Wang, Y.*** (2015) Critical role of TRPC6 in maintaining the stability of HIF-1α in glioma cells under hypoxia. ***J. Cell***

Sci. 128: 3317-3329.

25. 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.
26. Yang, Q., Liu, S., Yin, M., Yin, Y., Zhou, G.*, and **Zhou, J.*** (2015) Ebf2 is required for development of dopamine neurons in the midbrain periaqueductal gray matter of mouse. ***Dev. Neurobiol.*** 75: 1282-1294.
27. Long, M., Jiang, W., Liu, D., and **Yao, H.*** (2015) Contrast-dependent orientation discrimination in the mouse. ***Sci. Rep.*** 5: 15830.
28. 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.
29. 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 γ-secretase and reduce Aβ production. ***Nat. Commun.*** 6: 8876.
30. Feng, S., He, Z., Li, H., and **Wang, Y.*** (2015) Ca^{2+} signaling initiated by canonical transient receptor potential channels in dendritic development. ***Neurosci. Bull.*** 31: 351-356. (Review)
31. **Xu. N.*** (2015) Learning to memorize: Shedding new light on prefrontal functions. ***Neurosci. Bull.*** 31: 242-244. (Review)

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