

# Featured Publications

(2012.01-2012.12)

1. Tan, G., Liu, Y., Hu, X., Yin, D., Mei, L.\*, and **Xiong, Z.\*** (2012) Neuregulin 1 represses limbic epileptogenesis through ErbB4 in parvalbumin-expressing interneurons. *Nat. Neurosci.* 15: 258-266.
2. Xu, S., Jiang, W., **Poo, M.\***, and Dan, Y. (2012) Activity recall in a visual cortical ensemble. *Nat. Neurosci.* 15: 449-455.
3. Liu, X., Zhang, F., Liu, H., Li, K., Lu, Y., Wu, Q., Li, J., Wang, B., Wang, Q., Lin, L., Zhong, Y., Xiao, H., Bao, L., and **Zhang, X.\*** (2012) Activin C expressed in nociceptive afferent neurons is required for suppressing inflammatory pain. *Brain* 135: 391-403.
4. Hu, J., Huang, T., Li, T., Guo, Z., and **Cheng, L.\*** (2012) c-Maf is required for the development of dorsal horn laminae III/IV neurons and mechanoreceptive DRG axon projections. *J. Neurosci.* 32: 5362-5373.
5. Liu, X., Somel, M., Tang, L., Yan, Z., Jiang, X., Guo, S., Yuan, Y., Oleksiak, A., Zhang, Y., Li, N., Hu, Y., Chen, W., **Qiu, Z.\***, Pääbo, S.\*, and Khaitovich, P.\* (2012) Extension of cortical synaptic development distinguishes humans from chimpanzees and macaques. *Genome Res.* 22: 611-622.
6. Duan, B., Liu, D., Huang, Y., Zeng, W., Wang, X., Yu, W., Zhu, M., Chen, Z., and Xu, T.\* (2012) PI3-kinase/Akt pathway-regulated membrane insertion of acid-sensing ion channel 1a underlies BDNF-induced pain hypersensitivity. *J. Neurosci.* 32: 6351-6363.
7. Jiang, M., Zhu, J., Liu, Y., Yang, M., Tian, C., Jiang, S., Wang, Y., Guo, H., Wang, K.\*, and **Shu, Y.\*** (2012) Enhancement of asynchronous release from fast-spiking interneuron in human and rat epileptic neocortex. *PLoS Biol.* 10: e1001324.
8. Pan, Y., Chen, M., Yin, J., An, X., Zhang, X., Lu, Y., Gong, H., Li, W., and **Wang, W.\*** (2012) Equivalent representation of real and illusory contours in macaque V4. *J. Neurosci.* 32: 6760-6770.
9. Zhou, Y., Liu, Y., Zhang, W., and **Zhang, M.\*** (2012) Asymmetric influence of egocentric representation onto allocentric perception. *J. Neurosci.* 32: 8354-8360.
10. Guo, Z., Zhao, C., Huang, M., Huang, T., Fan, M., Xie, Z., Chen, Y., Zhao, X., Xia, G., Geng, J., and **Cheng, L.\*** (2012) Tlx1/3 and Ptfla control the expression of distinct sets of transmitter and peptide receptor genes in the developing dorsal spinal cord. *J. Neurosci.* 32: 8509-8520.
11. Wu, Q., Yang, L., Li, S., Wang, Q., Yuan, X., Gao, X., Bao, L., and **Zhang, X.\*** (2012)

- Fibroblast growth factor 13 is a microtubule-stabilizing protein regulating neuronal polarization and migration. *Cell* 149: 1549-1564.
12. He, Z., Jia, C., Feng, S., Zhou, K., Tai, Y., Bai, X., and **Wang, Y.\*** (2012) TRPC5 channel is the mediator of neurotrophin-3 in regulating dendritic growth via CaMKII $\alpha$  in rat hippocampal neurons. *J. Neurosci.* 32: 9383-9395.
  13. Wei, H., Yao, Y., Zhang, R., Zhao, X., and **Du, J.\*** (2012) Activity-induced long-term potentiation of excitatory synapses in developing zebrafish retina in vivo. *Neuron* 75: 479-489.
  14. Chen, Q., Jiang, L., Li, C., Hu, D., Bu, J., Cai, D., and **Du, J.\*** (2012) Haemodynamics-driven developmental pruning of brain vasculature in zebrafish. *PLoS Biol.* 10: e1001374.
  15. Mu, Y., Li, X., Zhang, B., and **Du, J.\*** (2012) Visual input modulates audiomotor function via hypothalamic dopaminergic neurons through a cooperative mechanism. *Neuron* 75: 688-699.
  16. Ren, Q., Li, H., Wu, Y., Ren, J., and **Guo, A.\*** (2012) A GABAergic inhibitory neural circuit regulates visual reversal learning in *Drosophila*. *J. Neurosci.* 32: 11524-11538.
  17. An, X., Gong, H., Qian, L., Wang, X., Pan, Y., Zhang, X., Yang, Y., **Wang, W.\*** (2012) Distinct functional organizations for processing different motion signals in V1, V2, and V4 of macaque. *J. Neurosci.* 32: 13363-13379.
  18. Li, Y., Du, X., Liu, C., Wen, Z., and **Du, J.\*** (2012) Reciprocal regulation between resting microglial dynamics and neuronal activity in vivo. *Dev. Cell* 23: 1189-1202.
  19. Zhang, Q., Wen, Y., Zhang, D., She, L., Wu, J., Dan, Y., and **Poo, M.\*** (2012) Priming with real motion biases visual cortical response to bistable apparent motion. *Proc. Natl. Acad. Sci. USA.* 109: 20691-20696.
  20. Wang, D., She, L., Sui, Y., Yuan, X., Wen, Y., and **Poo, M.\*** (2012) Forward transport of proteins in the plasma membrane of migrating cerebellar granule cells. *Proc. Natl. Acad. Sci. USA.* 109: E3558-E3567.

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