

CEBSIT Recent Publications

(2024.01-2024.12)

1. Zi, H., Peng, X., Cao, J., Xie, T., Liu, T., Li, H., Bu, J., **Du, J.***, Li, J.*(2024)Piezo1-dependent regulation of pericyte proliferation by blood flow during brain vascular development.*Cell Rep.* 43:113652
2. Liao, Z., Zhang, J., Sun, Y., Li, Y., Xu, Y., Li, C., Cao, J., Nie, Y., Niu, Z., Liu, J., Lu, F.* , **Liu, Z.***, **Sun, Q.***(2024) Reprogramming mechanism dissection and trophoblast replacement application in monkey somatic cell nuclear transfer. *Nat. Commun.* 15: 5.
3. Qiu, S., Hu, Y., Huang, Y., Gao, T., Wang, X., Wang, D., Ren, B., Shi, X., Chen, Y., Wang, X., Wang, D., Han, L., Liang, Y., Liu, D., Liu, Q., Deng, L., Chen, Z., Zhan, L., Chen, T., Huang, Y., Wu, Q., Xie, T., Qian, L., Jin, C., Huang, J., Deng, W., Jiang, T., Li, X., Jia, X., Yuan, J., Li, A., Yan, J., Xu, N., Xu, L., Luo, Q., **Poo, M.**, Sun, Y.* , Li, C.* , **Yao, H.***, Gong, H.* , **Sun, Y.*** , **Xu, C.*** (2024)Whole-brain spatial organization of hippocampal single-neuron projectomes. *Science.* 383, eadj9198
4. Zou, Y., Tong, C., Peng, W., Qiu, Y., Li, J., Xia, Y., Pei, M., Zhang, K., Li, W., Xu, M.* , **Liang, Z.***(2024)Cell-type-specific optogenetic fMRI on basal forebrain reveals functional network basis of behavioral preference. *Neuron.* 112: 1342-1357.e6.
5. Xu, P.* , Peng, J., Yuan, T., Chen, Z., He, H., Wu, Z., Li, T., Li, X., Wang, L., Gao, L., Yan, J., Wei, W., Li, C.* , Luo, Z.* , **Chen, Y.*** High-throughput mapping of single-neuron projection and molecular features by retrograde barcoded labeling. *eLife.* 91: 975-987 .
6. Li, Y., Yu, S., Jia, X., Qiu, X., **He, J.*** Defining morphologically and genetically distinct GABergic/cholinergic amacrine cell subtypes in the vertebrate retina. *PLoS Biol.* In Press.
7. Shang, C., Wang, Y., Zhao, M., Fan, Q., Zhao, S., Qian, Y., Xu, S., Mu, Y.* , Hao, J.* , **Du, J.***(2024)Real-time analysis of large-scale neuronal imaging enables closed-loop investigation of neural dynamics. *Nat. Neurosci.* 27: 1014 – 1018.
8. WANG, G., Gu, Y., **Liu, Z.*** (2024) Deciphering the genetic interactions between Pou4f3, Gfi1, and Rbm24 in maintaining mouse cochlear hair cell survival. *eLife.* 12: RP90025.
9. Fei, Y., Wu, Q., Zhao, S., Song, K., Han, J., **Liu, C.*** (2024) Diverse and Asymmetric Patterns of Single-Neuron Projectome in Regulating Interhemispheric Connectivity. *Nature Communications.* 15: 3403.

10. Huang, J., He, B., Yang, X., Long, X., Wei, Y., Li, L., Tang, M., Gao, Y., Fang, Y., Ying, W., Wang, Z., Li, C., Zhou, Y., Li, S., Shi, L., Choi, S., Zhou, H.*, Guo, F.*, **Yang, H.***, Wu, J.* (2024) Generation of rat forebrain tissues in mic. **Cell**. 187: 2129-2142.
11. Xiao, H., Liang, L., **Ye, Z.***, Wu, J.* (2024) Subthalamic Nucleus Stimulation Modulates Cognitive Theory of Mind in Parkinson's Disease. **Movement Disorders**. 39: 1154-1165.
12. Shen, C., Shen, B., Liu, D., Han, L., Zou, K., Gan, L., Ren, J., Wu, B., Tang, Y., Zhao, J., Sun, Y., Liu, F., Yu, W., **Yao, H.***, Wu, J.*, Wang, J*. (2024) Bidirectional regulation of levodopa-induced dyskinesia by a specific neural ensemble in globus pallidus external segment. **Cell Rep Med**. 16: 101566.
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15. Gou, L., Wang, Y., Gao, L., Zhong, Y., Xie, L., Wang, H., Zha, X., Shao, X., Xu, H., Xu, X., **Yan, J.***(2024) Gapr for large-scale collaborative single-neuron reconstruction. **Nat. Methods**. 21: 1926–1935.
16. Cheng, X., Zhao, M., Chen, L., Huang, C, Xu, Q., Shao, J., Wang, H., Zhang, Y., Li, X., Xu, X., Yao, X., Lin, K., Xue, H., Wang, H., Chen, Q., Zhu, Y., Zhou, J., Ge, W., Zhu, S., Liu, J., Chen, W.*, **Xiong, Z.***(2024) Astrocytes modulate brain phosphate homeostasis via polarized distribution of phosphate uptake transporter PIT2 and exporter XPR1. **Neuron**. 112: 3126-3142.e8.
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18. Xiao, Q., Li, G., Han, D., Wang, H., Yao, M., Ma, T., Zhou, J., Zhang, Y., Zhang, X., He, B., Yuan Y., Shi, L., Li, T.*, **Yang, H.***, Huang, J., Zhang, H.* (2024) Engineered IscB-ωRNA system with expanded target range for base editing. **Nat. Chem. Biol**. 21: 100–108.
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20. Yu, G. #, Li, J. #, Zhang, H. #, Zi, H., Liu, M., An, Q., Qiu, T., Li, P., Song, J., Liu, P., Quan, K., Li, S., Liu, Y., Zhu, W. *, **Du, J. *** (2024) Single-cell analysis reveals the implication of vascular endothelial cell-intrinsic ANGPT2 in human intracranial aneurysm. *Cardiovasc Res.* doi: 10.1093/cvr/cvae186.
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 22. Xu, X., Du, K., **Mao, D.** (2024) Spatial dissociation between recognition and navigation in the primate hippocampus. *Sci. Adv.* 10.1126/sciadv.ado7392
 23. Tian, Z., Chen, J., Zhang, C., Min, B.*, Xu, B., **Wang, L.*** (2024) Mental programming of spatial sequences in working memory in the macaque frontal cortex. *Science.* 385. 10.1126/science.adp60
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30. Jiao, Z., Zhang, M., Wu, Y., Li, S., Gao, M., Zhang, W., **Xu, X.** *(2024) Acute Recruitment of VTA Dopamine Neurons by mPOA Esr1+ Neurons to Facilitate Consummatory Male Mating Actions. *NEUROSCIENCE BULLETIN*. 40:1745-1750.
31. **Poo, M.***(2024)China's new ethical guidelines for the use of brain-computer interfaces. *NATIONAL SCIENCE REVIEW*. 11.
32. **Poo, M.***(2024)In search of problems. *CELL*. 187
33. Zhang, M., **Yu, Q.***(2024) The representation of abstract goals in working memory is supported by task-congruent neural geometry. *PLOS BIOLOGY*. 22.
34. Tang, S., Cui, L., Pan, J., **Xu, N.***(2024) Dynamic ensemble balance in direct- and indirect-pathway striatal projection neurons underlying decision-related action selection.*CELL REPORTS*. 43.
35. Dou, Y.*, Liu, Y., Ding, W., Li, Q., Zhou, H., Li, L., Zhao, M., Li, Z., Yuan, J., Wang, X., Zou, W., Li, A., **Sun, Y.***(2024)Single-neuron projectome-guided analysis reveals the neural circuit mechanism underlying endogenous opioid antinociception.*National Science Review*. 11.
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40. Huang, Y., Wang, S., Wang, Q., Zheng, C., Yang, F., Wei, L., Zhou, X., **Wang, Z.*** (2024) Glutamatergic Circuits in the Pedunculo-pontine Nucleus Modulate Multiple Motor Functions. *NEUROSCIENCE BULLETIN*. 40: 1713.
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46. Li, Y., Zhu, W., Qian, Y., Yang, H., Wu, Y., Meng, J., Huang, X.*, Liu, Z.*, Mu, L.* (2024) Transcriptomic profiling of day 3 human embryos of poor quality reveals molecular links to divergent developmental trajectories. **CELL REPORTS**. 43.
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