

## CEBSIT Featured Publications

(2025.01-2025.12)

1. Zhang, L\*, Xu, Z., Jia, Z., Cai, S., Wu, Q., Liu, X., Hu, X., Bai, T., Chen, Y., Li, T., Liu, Z., Wu, B., Zhu, J., **Zhou, H.\***(2025) Modulating mTOR-dependent astrocyte substate transitions to alleviate neurodegeneration. *Nat Aging*.: 10.1038/s43587-024-00792-z
2. Luo, T., Xu, M., Zheng, Z., **Gouki, O.\*** (2025)Limitation of switching sensory information flow in flexible perceptual decision making. *Nature Commmun.* 16: 172.
3. Zhu, W., Meng, J., Li, Y., Gu, L., Liu, W., Li, Z., Shen, Y., Shen, X., Wang, Z., Wu, Y., Wang, G., Zhang, J., Zhang, H., Yang, H., Dong, X., Wang, H., Huang, X., **Sun, Y.\***, Li, C.\* , Mu, L.\* , **Liu, Z.\*** (2025)Comparative proteomic landscapes elucidate human preimplantation development and failure. *Cell.* 188:p814-831.
4. Zhang, M., Feng, J., Xie, C., Song, N., Jin, C., Wang, J., Zhao, Q., Zhang, L., Wang, B., Sun, Y., Guo, F., Li, Y.\* , **Zhu, S.\***(2025)Assembly and architecture of endogenous NMDA receptors in adult cerebral cortex and hippocampus. *Cell.* In Press.
5. Sun, Y., Re, M., Zhang, Y., Li, S., Luo, Z., Sun, S., He, S., Wang, G., Zhang, D., Mansour, S., Song, L., **Liu, Z.\***(2025)Casz1 is required for both inner hair cell fate stabilization and outer hair cell survival. *Science.* In Press.
6. Huang, X., Sun, X., Wang, Q., Zhang, J., Wen H., Chen, W.\* , **Zhu, S.\***(2025)Structural insights into the diverse actions of magnesium on NMDA receptors. *Neuron.* In Press.
7. Zhang, S., Xu, N., Fu, L., Yang, X., Ma, K., Li, Y., Yang, Z., Li, Z., Feng, Y., Jiang, X., Han, J., Hu, R., Zhang, L., Lian, D., Gennaro, L., Paparella, A., Ryabov, F., Meng, D., He, Y., Wu, D., Yang, C., Bian, X., Bian, X., Lu, Y., Antonacci, F., Ventura, M., Shepel, V., Miga, K., Alexandron, I., Logsdon, G., Phillippy, A., Su, B., Zhang, G., Eichler, E., Lu, Q., Shi, Y., **Sun, Q.\***, Mao, Y.\*(2025)Integrated analysis of the complete sequence of a macaque genome. *Nature.* In Press.
8. Zhang J, Duan J, Li W, Wang X, Ren S, Ye L, Liu F, Tian X, Xie Y, Huang Y, Sun Y, Song N, Li T, Cai X, Liu Z, Zhou H, Huang C, Li Y, Zhu S, Guo F. (2025)An antidepressant mechanism underlying the allosteric inhibition of GluN2D-incorporated NMDA receptors at GABAergic interneurons. *Sci Adv.* 11(10):eadq0444.
9. Fang, W., Jiang, X., Chen, J., Zhang, C., **Wang, L.\*** (2025)Oscillatory control over representational geometry of sequence working memory in macaque frontal cortex. *Curr Biol.* 2025 Mar 8:S0960-9822(25)00194-0.

10. Peng, Y.\* , Feng, C., Peng, S., Wang, Y., Zhang, Q., Jiao, Z., Cao, H., Huang, S., Tian, P., Sun, X., Xu, X., Fu, Y., Hu, J.\* , **Zhang, Z.\*** (2025)GLP-2 prevents antipsychotics-induced metabolic dysfunction in mice. *Nat Metab.* 7:730–741.
  
11. Han, L.#, Liu, Z.#, Jing, Z.#, Liu, Y.#, Peng, Y.#, Chang, H.#, Lei, J.#, Wang, K.#, Xu, Y.#, Liu, W.#, Wu, Z.#, Li, Q., Shi, X., Zheng, M., Wang, H., Deng, J., Zhong, Y., Pan, H., Lin, J., Zhang, R., Chen, Y., Wu, J., Xu, M., Ren, B., Cheng, M., Yu, Q., Song, X., Lu, Y., Tang, Y., Yuan, N., Sun, S., An, Y., Ding, W., Sun, X., Wei, Y., Zhang, S., Dou, Y., Zhao, Y., Han, L., Zhu, Q., Xu, J., Wang, S., Wang, D., Bai, Y., Liang, Y., Liu, Y., Chen, M., Xie, C., Bo, B., Li, M., Zhang, X., Ting, W., Chen, Z., Fang, J., Li, S., Jiang, Y., Tan, X., Zuo, G., Xie, Y., Li, H., Tao, Q., Li, Y., Liu, J., Liu, Y., Hao, M., Wang, J., Wen, H., Liu, J., Yan, Y., Zhang, H., Sheng, Y., Yu, S., Liao, X., Jiang, X., Wang, G., Liu, H., Wang, C., Feng, N., Liu, X., Ma, K., Xu, X., Han, T., Cao, H., Zheng, H., Chen, Y., Lu, H., Yu, Z., Zhang, J., Wang, B., Wang, Z., Xie, Q., Pan, S., Liu, C., Xu, C., Cui, L., Li, Y., Liu, S., Liao, S., Chen, A., Wu, Q., Wang, J., Liu, Z., Sun, Y., Mulder, J., Yang, H., Wang, X.\* , Li, C.\* , Yao, J.\* , Xu, X.\* , Liu, L.\* , **Shen, Z.\***, Wei, W.\* , **Sun, Y.\*** (2025) Single-cell spatial transcriptomic atlas of the whole mouse brain. *Neuron.* 13:2141-2160.e9
  
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16. Qin, H., Yu, S., Han, R., **He, J.\*** Age-dependent glial heterogeneity and traumatic injury responses in a vertebrate brain structure. (2025) *Cell Rep*. 44(4):115508.
17. Li, J.\*, Liu, M., Du, W., Peng, X., Deng, H., Zi, H., Shang, H. \*, **Du, J.\*** Neural-activity-regulated and glia-mediated control of brain lymphatic development.(2025) *Cell*. 12:3274-3290.e16
18. Wu, X., Lu, B., He, J., Zhang, Y., Wu, Z., **Xiong, Z.\*** Aberrant outputs of glutamatergic neurons in deep cerebellar nuclei mediate dystonic movements.(2025)*Sci Adv*. 11(19):eadp2377.
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22. Zeng, Z., Zhang, C., Xu, Y., He, H. \*, **Gu, Y.\*** (2025) Distinct neural population code and causal roles of primate caudate nucleus in multimodal decision-making. *Nature Communications* 16(1): 5253.
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