



## Changwan Chen

Postdoctoral Scholar, Developmental Biology

---

### Bio

#### STANFORD ADVISORS

- Will Allen, Postdoctoral Faculty Sponsor

---

### Publications

#### PUBLICATIONS

- **Brainstem circuit for sickness-induced sleep.** *Science advances*  
Darmohray, D., Sima, J., Chen, C. H., Silverman, D., Chen, C., Xu, A., Yao, Y., Dan, Y.  
2025; 11 (50): eady0245
- **Activation of locus coeruleus noradrenergic neurons rapidly drives homeostatic sleep pressure** *SCIENCE ADVANCES*  
Silverman, D., Chen, C., Chang, S., Bui, L., Zhang, Y., Raghavan, R., Jiang, A., Le, A., Darmohray, D., Sima, J., Ding, X., Li, B., Ma, et al  
2025; 11 (3): eadq0651
- **Sequential Activation of Lateral Hypothalamic Neuronal Populations during Feeding and Their Assembly by Gamma Oscillations.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*  
Altafi, M., Chen, C., Korotkova, T., Ponomarenko, A.  
2024; 44 (43)
- **The dynamic state of a prefrontal-hypothalamic-midbrain circuit commands behavioral transitions.** *Nature neuroscience*  
Chen, C., Altafi, M., Corbu, M. A., Trenk, A., van den Munkhof, H., Weineck, K., Bender, F., Carus-Cadavieco, M., Bakhareva, A., Korotkova, T., Ponomarenko, A.  
2024; 27 (5): 952-963
- **Circuit mechanism for suppression of frontal cortical ignition during NREM sleep.** *Cell*  
Li, B., Ma, C., Huang, Y. A., Ding, X., Silverman, D., Chen, C., Darmohray, D., Lu, L., Liu, S., Montaldo, G., Urban, A., Dan, Y.  
2023; 186 (26): 5739-5750.e17
- **Place fields of single spikes in hippocampus involve Kcnq3 channel-dependent entrainment of complex spike bursts.** *Nature communications*  
Gao, X., Bender, F., Soh, H., Chen, C., Altafi, M., Schütze, S., Heidenreich, M., Gorbati, M., Corbu, M. A., Carus-Cadavieco, M., Korotkova, T., Tzingounis, A. V., Jentsch, et al  
2021; 12 (1): 4801
- **Prefrontal - subthalamic pathway supports action selection in a spatial working memory task.** *Scientific reports*  
Heikenfeld, C., Mederos, S., Chen, C., Korotkova, T., Schnitzler, A., Ponomarenko, A.  
2020; 10 (1): 10497
- **The anterior insular cortex unilaterally controls feeding in response to aversive visceral stimuli in mice.** *Nature communications*  
Wu, Y., Chen, C., Chen, M., Qian, K., Lv, X., Wang, H., Jiang, L., Yu, L., Zhuo, M., Qiu, S.  
2020; 11 (1): 640

- **Postsynaptic RIM1 modulates synaptic function by facilitating membrane delivery of recycling NMDARs in hippocampal neurons.** *Nature communications*  
Wang, J., Lv, X., Wu, Y., Xu, T., Jiao, M., Yang, R., Li, X., Chen, M., Yan, Y., Chen, C., Dong, W., Yang, W., Zhuo, et al  
2018; 9 (1): 2267
- **Endocytosis of GluN2B-containing NMDA receptors mediates NMDA-induced excitotoxicity.** *Molecular pain*  
Wu, Y., Chen, C., Yang, Q., Jiao, M., Qiu, S.  
2017; 13: 1744806917701921