

Chew M Chai

Postdoctoral Scholar, Bioengineering

Bio

STANFORD ADVISORS

- Bo Wang, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Explosive cytotoxicity of 'ruptoblasts' bridges hormonal surveillance and immune defense.** *bioRxiv : the preprint server for biology*
Chai, C., Sultan, E., Sarkar, S. R., Zhong, L., Sarfati, D. N., Gershoni-Yahalom, O., Jacobs-Wagner, C., Thiam, H. R., Rosental, B., Wang, B.
2025
- **Flexible use of conserved motif vocabularies constrains genome access in cell type evolution.** *bioRxiv : the preprint server for biology*
Chai, C., Gibson, J., Li, P., Pampari, A., Patel, A., Kundaje, A., Wang, B.
2024
- **Regeneration in the absence of canonical neoblasts in an early branching flatworm.** *Nature communications*
Gąsiorowski, L., Chai, C., Rozanski, A., Purandare, G., Ficze, F., Mizi, A., Wang, B., Rink, J. C.
2025; 16 (1): 1232
- **A genetic and microscopy toolkit for manipulating and monitoring regeneration in *Macrostomum lignano*.** *Cell reports*
Hall, R. N., Li, H., Chai, C., Vermeulen, S., Bigasin, R. R., Song, E. S., Sarkar, S. R., Gibson, J., Prakash, M., Fire, A. Z., Wang, B.
2024; 43 (11): 114892
- **Adaptive robustness through incoherent signaling mechanisms in a regenerative brain.** *Cell reports*
Bray, S. R., Wyss, L. S., Chai, C., Lozada, M. E., Wang, B.
2024; 43 (8): 114580
- **Ultrafast distant wound response is essential for whole-body regeneration.** *Cell*
Fan, Y., Chai, C., Li, P., Zou, X., Ferrell, J. E., Wang, B.
2023
- **Expansion spatial transcriptomics.** *Nature methods*
Fan, Y., Andrusivova, Z., Wu, Y., Chai, C., Larsson, L., He, M., Luo, L., Lundeberg, J., Wang, B.
2023
- **Heterologous reporter expression in the planarian *Schmidtea mediterranea* through somatic mRNA transfection.** *Cell reports methods*
Hall, R. N., Weill, U., Drees, L., Leal-Ortiz, S., Li, H., Khariton, M., Chai, C., Xue, Y., Rosental, B., Quake, S. R., Sanchez Alvarado, A., Melosh, N. A., Fire, et al
2022; 2 (10): 100298
- **Phosphoethanolamine cellulose enhances curli-mediated adhesion of uropathogenic *Escherichia coli* to bladder epithelial cells.** *Proceedings of the National Academy of Sciences of the United States of America*
Hollenbeck, E. C., Antonoplis, A., Chai, C., Thongsomboon, W., Fuller, G. G., Cegelski, L.
2018
- **Interfacial mechanisms for stability of surfactant-laden films** *PLOS ONE*
Bhamla, M. S., Chai, C., Alvarez-Valenzuela, M. A., Tajuelo, J., Fuller, G. G.

2017; 12 (5)

● **Hand-powered ultralow-cost paper centrifuge** *NATURE BIOMEDICAL ENGINEERING*

Bhamla, M., Benson, B., Chai, C., Katsikis, G., Johri, A., Prakash, M.

2017; 1 (1)

● **Instability and Breakup of Model Tear Films** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*

Bhamla, M. S., Chai, C., Rabiah, N. I., Frostad, J. M., Fuller, G. G.

2016; 57 (3): 949-958