

Stanford



Yiyun Chen

Postdoctoral Scholar, Stanford Cancer Center

Bio

BIO

Yiyun Chen, Ph.D. is a Postdoctoral Fellow at Professor Crystal Mackall's group at Stanford Cancer Institute.

Dr. Chen studied biochemistry and structural biology in her undergraduate and master trainings at The Hong Kong University of Science and Technology, where she eventually obtained her Ph.D. degree in computational biology under the supervision of Professor Jiguang Wang. During her Ph.D. training, she has developed her skill sets in analyzing and integrating various types of patient-derived sequencing data, published three first-author and four co-author papers, and received two awards for top postgraduate students. Through interdisciplinary collaborations with cancer biologist and clinicians in US and Asia, her work has uncovered tumor-specific immune cell subtypes and novel noncoding RNAs and generated new insights into precision medicine in glioma, lymphoma and gastric cancer.

Applying her expertise in computational cancer biology and immunology, her current research is focused on identifying molecular mechanisms that contribute to the clinical outcomes of patients undergoing CAR-T immunotherapy. At Mackall Lab, she will contribute to tailoring computational pipelines for profiling the spatiotemporal dynamics of the tumor and immune microenvironment and translate new discoveries into cancer therapeutics.

STANFORD ADVISORS

- Crystal Mackall, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Crystal Mackall (6/15/2022)

Publications

PUBLICATIONS

- **Tumor-associated monocytes promote mesenchymal transformation through EGFR signaling in glioma.** *Cell reports. Medicine*
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- **Deciphering Brain Complexity Using Single-cell Sequencing** *GENOMICS PROTEOMICS & BIOINFORMATICS*
Mu, Q., Chen, Y., Wang, J.
2019; 17 (4): 344-366
- **Mutational Landscape of Secondary Glioblastoma Guides MET-Targeted Trial in Brain Tumor** *CELL*
Hu, H., Mu, Q., Bao, Z., Chen, Y., Liu, Y., Chen, J., Wang, K., Wang, Z., Nam, Y., Jiang, B., Sa, J. K., Cho, H., Her, et al

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● **Inosine induces stemness features in CAR-T cells and enhances potency.** *Cancer cell*

Klysz, D. D., Fowler, C., Malipatlolla, M., Stuani, L., Freitas, K. A., Chen, Y., Meier, S., Daniel, B., Sandor, K., Xu, P., Huang, J., Labanieh, L., Keerthi, et al
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● **Noncoding mutations cause super-enhancer retargeting resulting in protein synthesis dysregulation during B cell lymphoma progression.** *Nature genetics*

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● **MITOCHONDRIAL ATP BIOGENESIS REGULATED BY VDAC1 IN TMEM119+TUMOR-ASSOCIATED MICROGLIA AND MACROPHAGES MEDIATES HIGH-GRADE GLIOMA GROWTH**

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● **Classifying gastric cancer using FLORA reveals clinically relevant molecular subtypes and highlights LINC01614 as a biomarker for patient prognosis** *ONCOGENE*

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● **Noncoding RNA processing by DIS3 regulates chromosomal architecture and somatic hypermutation in B cells** *NATURE GENETICS*

Laffleur, B., Lim, J., Zhang, W., Chen, Y., Pefanis, E., Bizarro, J., Batista, C. R., Wu, L., Economides, A. N., Wang, J., Basu, U.
2021; 53 (2): 230-+

● **Structural Basis for the High-Affinity Interaction between CASK and Mint1** *STRUCTURE*

Wu, X., Cai, Q., Chen, Y., Zhu, S., Mi, J., Wang, J., Zhang, M.
2020; 28 (6): 664-+

● **Noncoding RNA transcription alters chromosomal topology to promote isotype-specific class switch recombination** *SCIENCE IMMUNOLOGY*

Rothschild, G., Zhang, W., Lim, J., Giri, P., Laffleur, B., Chen, Y., Fang, M., Chen, Y., Nair, L., Liu, Z., Deng, H., Hammarstrom, L., Wang, et al
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● **Ca (2+)-Induced Rigidity Change of the Myosin VIIa IQ Motif-Single alpha Helix Lever Arm Extension** *STRUCTURE*

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