

Stanford



Yanding Zhao

Postdoctoral Scholar, Stanford Cancer Institute

Bio

HONORS AND AWARDS

- MIB Agents FACTOR Travel Award, MIB Agents FACTOR (2025)
- Dartmouth Graduate Student Travel Awards, Dartmouth College (2019)
- Dartmouth College MCB student fellowship, Dartmouth College (2016)
- Brandeis University MCB student fellowship, Brandeis University (2015)
- The Excellent Graduate Student of Southern Medical University, Southern Medical University (2013)
- The Excellent Student of Southern Medical University, Southern Medical University (2013)
- The Excellent Students' Union Cadre of Southern Medical University, Southern Medical University (2013)
- National University Innovation Research and Training Program, Southern Medical University (2012)
- University Innovation Research and Training Program of Guangdong Province, Southern Medical University (2011)
- "Excellent Student" Scholarship, Southern Medical University (2011)
- The First Prize in Biochemistry Experiment Skills Contest, Southern Medical University (2010)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- CREST Mentor, Canary CREST Program (2025 - present)

PROFESSIONAL EDUCATION

- BS, Southern Medical University , Pharmacology (2013)
- MSc, Brandeis University , Molecular and Cellular Biology (2015)
- PhD, Dartmouth College , Genetics (2020)

STANFORD ADVISORS

- Christina Curtis, Postdoctoral Faculty Sponsor

LINKS

- Chang Lab: <https://med.stanford.edu/changlab.html>

Research & Scholarship

LAB AFFILIATIONS

- Howard Chang, Chang Lab (7/19/2021 - - 4/7/2025)
- Christina Curtis, Curtis Lab (7/19/2021)

Publications

PUBLICATIONS

- **Three-dimensional genome landscape of primary human cancers.** *Nature genetics*
Yost, K. E., Zhao, Y., Hung, K. L., Zhu, K., Xu, D., Corces, M. R., Shams, S., Louie, B. H., Sarmashghi, S., Sundaram, L., Luebeck, J., Clarke, S., Doane, et al
2025
- **Cooperation of chromatin remodeling SWI/SNF complex and pioneer factor AP-1 shapes 3D enhancer landscapes.** *Nature structural & molecular biology*
Wolf, B. K., Zhao, Y., McCray, A., Hawk, W. H., Deary, L. T., Sugiarto, N. W., LaCroix, I. S., Gerber, S. A., Cheng, C., Wang, X.
2022
- **VISTA is a checkpoint regulator for naive T cell quiescence and peripheral tolerance** *SCIENCE*
ElTanbouly, M. A., Zhao, Y., Nowak, E., Li, J., Schaafsma, E., Le Mercier, I., Ceeraz, S., Lines, J., Peng, C., Carriere, C., Huang, X., Day, M., Koehn, et al
2020; 367 (6475): 264-+
- **A Leukocyte Infiltration Score Defined by a Gene Signature Predicts Melanoma Patient Prognosis.** *Molecular cancer research : MCR*
Zhao, Y., Schaafsma, E., Gorlov, I. P., Hernando, E., Thomas, N. E., Shen, R., Turk, M. J., Berwick, M., Amos, C. I., Cheng, C.
2019; 17 (1): 109-119
- **A P53-Deficiency Gene Signature Predicts Recurrence Risk of Patients with Early-Stage Lung Adenocarcinoma.** *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*
Zhao, Y., Varn, F. S., Cai, G., Xiao, F., Amos, C. I., Cheng, C.
2018; 27 (1): 86-95
- **Autoantibody hotspots reveal origin and impact of immunogenic XIST ribonucleoprotein complex.** *bioRxiv : the preprint server for biology*
Yan, B., Lee, J., Srinivasan, S., Shi, Q., Dou, D. R., Davuluri, S., Nandyala, S., Woods, A., Leatherman, G., Zhao, Y., Reggiardo, R. E., Sawant, M., Thiam, et al
2025
- **Enhancing transcription-replication conflict targets ecDNA-positive cancers.** *Nature*
Tang, J., Weiser, N. E., Wang, G., Chowdhry, S., Curtis, E. J., Zhao, Y., Wong, I. T., Marinov, G. K., Li, R., Hanoian, P., Tse, E., Mojica, S. G., Hansen, et al
2024; 635 (8037): 210-218
- **Single-cell chromatin accessibility reveals malignant regulatory programs in primary human cancers.** *Science (New York, N.Y.)*
Sundaram, L., Kumar, A., Zatzman, M., Salcedo, A., Ravindra, N., Shams, S., Louie, B. H., Bagdatli, S. T., Myers, M. A., Sarmashghi, S., Choi, H. Y., Choi, W. Y., Yost, et al
2024; 385 (6713): eadk9217
- **Xist ribonucleoproteins promote female sex-biased autoimmunity.** *Cell*
Dou, D. R., Zhao, Y., Belk, J. A., Zhao, Y., Casey, K. M., Chen, D. C., Li, R., Yu, B., Srinivasan, S., Abe, B. T., Kraft, K., Hellström, C., Sjöberg, et al
2024; 187 (3): 733-749.e16
- **Xist Ribonucleoproteins Promote Female Sex-biased Autoimmunity**
Dou, D., Zhao, Y., Belk, J., Zhao, Y., Casey, K., Chen, D., Li, R., Yu, B., Srinivasan, S., Abe, B., Kraft, K., Hellstroem, C., Sjoeborg, et al
WILEY.2023: 25-26
- **The steroid hormone estriol (E3) regulates epigenetic programming of fetal mouse brain and reproductive tract.** *BMC biology*
Zhou, Y., Gu, B., Brichant, G., Singh, J. P., Yang, H., Chang, H., Zhao, Y., Cheng, C., Liu, Z. W., Alderman, M. H., Lu, L., Yang, X., Gao, et al
2022; 20 (1): 93
- **Influence of T Cell-Mediated Immune Surveillance on Somatic Mutation Occurrences in Melanoma** *FRONTIERS IN IMMUNOLOGY*
Jiang, C., Schaafsma, E., Hong, W., Zhao, Y., Zhu, K., Chao, C., Cheng, C.
2022; 13: 703821

- **Computational modeling of chromatin accessibility identified important epigenomic regulators** *BMC GENOMICS*
Zhao, Y., Dong, Y., Hong, W., Jiang, C., Yao, K., Cheng, C.
2022; 23 (1): 19
- **Resident memory CD8(+) T cells in regional lymph nodes mediate immunity to metastatic melanoma** *IMMUNITY*
Molodtsov, A. K., Khatwani, N., Vella, J. L., Lewis, K. A., Zhao, Y., Han, J., Sullivan, D. E., Searles, T. G., Preiss, N. K., Shabaneh, T. B., Zhang, P., Hawkes, A. R., Malik, et al
2021; 54 (9): 2117-+
- **AutoEncoder-Based Computational Framework for Tumor Microenvironment Decomposition and Biomarker Identification in Metastatic Melanoma** *FRONTIERS IN GENETICS*
Zhao, Y., Dong, Y., Sun, Y., Cheng, C.
2021; 12: 665065
- **Resident and circulating memory T cells persist for years in melanoma patients with durable responses to immunotherapy** *NATURE CANCER*
Han, J., Zhao, Y., Shirai, K., Molodtsov, A., Kolling, F. W., Fisher, J. L., Zhang, P., Yan, S., Searles, T. G., Bader, J. M., Gui, J., Cheng, C., Ernstoff, et al
2021; 2 (3): 300-311
- **MYC Activity Inference Captures Diverse Mechanisms of Aberrant MYC Pathway Activation in Human Cancers.** *Molecular cancer research : MCR*
Schaafsma, E., Zhao, Y., Zhang, L., Li, Y., Cheng, C.
2021; 19 (3): 414-428
- **VISTA: A Target to Manage the Innate Cytokine Storm** *FRONTIERS IN IMMUNOLOGY*
ElTanbouly, M. A., Zhao, Y., Schaafsma, E., Burns, C. M., Mabaera, R., Cheng, C., Noelle, R. J.
2021; 11: 595950
- **Gene signature-based prediction of triple-negative breast cancer patient response to Neoadjuvant chemotherapy** *CANCER MEDICINE*
Zhao, Y., Schaafsma, E., Cheng, C.
2020; 9 (17): 6281-6295
- **An EGFR signature predicts cell line and patient sensitivity to multiple tyrosine kinase inhibitors** *INTERNATIONAL JOURNAL OF CANCER*
Cheng, C., Zhao, Y., Schaafsma, E., Weng, Y., Amos, C.
2020; 147 (9): 2621-2633
- **Whole transcriptome signature for prognostic prediction (WTSP): application of whole transcriptome signature for prognostic prediction in cancer** *LABORATORY INVESTIGATION*
Schaafsma, E., Zhao, Y., Wang, Y., Varn, F. S., Zhu, K., Yang, H., Cheng, C.
2020; 100 (10): 1356-1366
- **Gene signatures associated with genomic aberrations predict prognosis in neuroblastoma** *CANCER COMMUNICATIONS*
He, X., Qin, C., Zhao, Y., Zou, L., Zhao, H., Cheng, C.
2020; 40 (2-3): 105-118
- **Systematic computational identification of prognostic cytogenetic markers in neuroblastoma** *BMC MEDICAL GENOMICS*
Qin, C., He, X., Zhao, Y., Tong, C., Zhu, K. Y., Sun, Y., Cheng, C.
2019; 12 (1): 192
- **Computational STAT3 activity inference reveals its roles in the pancreatic tumor microenvironment** *SCIENTIFIC REPORTS*
Schaafsma, E., Yuan, Y., Zhao, Y., Cheng, C.
2019; 9: 18257
- **Single-cell RNA sequencing reveals the impact of chromosomal instability on glioblastoma cancer stem cells.** *BMC medical genomics*
Zhao, Y. n., Carter, R. n., Natarajan, S. n., Varn, F. S., Compton, D. A., Gawad, C. n., Cheng, C. n., Godek, K. M.
2019; 12 (1): 79
- **Applications of ENCODE data to Systematic Analyses via Data Integration.** *Current opinion in systems biology*
Zhao, Y., Schaafsma, E., Cheng, C.

2018; 11: 57-64

● **Comparative Analysis of Mutant Huntingtin Binding Partners in Yeast Species** *SCIENTIFIC REPORTS*

Zhao, Y., Zurawel, A. A., Jenkins, N. P., Duenwald, M. L., Cheng, C., Kettenbach, A. N., Supattapone, S.

2018; 8: 9554

● **Replication origin-flanking roadblocks reveal origin-licensing dynamics and altered sequence dependence** *JOURNAL OF BIOLOGICAL CHEMISTRY*

Warner, M. D., Azmi, I. F., Kang, S., Zhao, Y., Bell, S. P.

2017; 292 (52): 21417-21430