

Stanford



Bingyu Yan

Postdoctoral Scholar, Dermatology

Bio

BIO

I am a computational biologist who worked on:

1. Role of enhancer RNAs in human adaptive immune cells.
2. Host-pathogen interactions in human infectious diseases and cancers.
3. Immunoregulation in CD4 T helper cells.

and working on:

4. Female-biased autoimmunity.
5. Vaccine design.

Happy to discuss science.

STANFORD ADVISORS

- Howard Chang, Postdoctoral Faculty Sponsor

LINKS

- Google Scholar: <https://scholar.google.com/citations?user=6i8DUBkAAAAJ&hl=en>
- LinkedIn: <https://www.linkedin.com/in/bingyu-yan-a16486234/>
- Twitter: https://twitter.com/Bingyu_Science

Research & Scholarship

LAB AFFILIATIONS

- Howard Chang (6/12/2023)

Publications

PUBLICATIONS

- **A comprehensive single cell data analysis of lymphoblastoid cells reveals the role of super-enhancers in maintaining EBV latency** *JOURNAL OF MEDICAL VIROLOGY*
Yan, B., Wang, C., Chakravorty, S., Zhang, Z., Kadadi, S. D., Zhuang, Y., Sirit, I., Hu, Y., Jung, M., Sahoo, S. S., Wang, L., Shao, K., Anderson, et al 2023; 95 (1): e28362
- **Autocrine vitamin D signaling switches off pro-inflammatory programs of T(H)1 cells** *NATURE IMMUNOLOGY*
Chauss, D., Freiwald, T., McGregor, R., Yan, B., Wang, L., Nova-Lamperti, E., Kumar, D., Zhang, Z., Teague, H., West, E. E., Vannella, K. M., Ramos-Benitez, M. J., Bibby, et al

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- **TCF-1 controls T-reg cell functions that regulate inflammation, CD8(+) T cell cytotoxicity and severity of colon cancer** *NATURE IMMUNOLOGY*
Osman, A., Yan, B., Li, Y., Pavelko, K. D., Quandt, J., Saadalla, A., Singh, M., Kazemian, M., Gounari, F., Khazaie, K.
2021; 22 (9): 1152-+
- **Host-Virus Chimeric Events in SARS-CoV-2-Infected Cells Are Infrequent and Artifactual** *JOURNAL OF VIROLOGY*
Yan, B., Chakravorty, S., Mirabelli, C., Wang, L., Trujillo-Ochoa, J. L., Chauss, D., Kumar, D., Lionakis, M. S., Olson, M. R., Wobus, C. E., Afzali, B., Kazemian, M.
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- **SARS-CoV-2 drives JAK1/2-dependent local complement hyperactivation** *SCIENCE IMMUNOLOGY*
Yan, B., Freiwald, T., Chauss, D., Wang, L., West, E., Mirabelli, C., Zhang, C. J., Nichols, E., Malik, N., Gregory, R., Bantscheff, M., Ghidelli-Disse, S., Kolev, et al
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- **Integrated Pan-Cancer Map of EBV-Associated Neoplasms Reveals Functional Host-Virus Interactions** *CANCER RESEARCH*
Chakravorty, S., Yan, B., Wang, C., Wang, L., Quaid, J., Lin, C., Briggs, S. D., Majumder, J., Canaria, D., Chauss, D., Chopra, G., Olson, M. R., Zhao, et al
2019; 79 (23): 6010-6023
- **DDX5 deficiency drives non-canonical NF- κ B activation and NRF2 expression, influencing sorafenib response and hepatocellular carcinoma progression.** *Cell death & disease*
Li, Z., Kim, W., Utturkar, S., Yan, B., Lanman, N. A., Elzey, B. D., Kazemian, M., Yeo, Y., Andrisani, O.
2024; 15 (8): 583
- **RNA helicase DDX5 modulates sorafenib sensitivity in hepatocellular carcinoma via the Wnt/ β -catenin-ferroptosis axis.** *Cell death & disease*
Li, Z., Caron de Fromentel, C., Kim, W., Wang, W. H., Sun, J., Yan, B., Utturkar, S., Lanman, N. A., Elzey, B. D., Yeo, Y., Zhang, H., Kazemian, M., Levbrero, et al
2023; 14 (11): 786
- **Distinct use of super-enhancer elements controls cell type-specific CD25 transcription and function.** *Science immunology*
Spolski, R., Li, P., Chandra, V., Shin, B., Goel, S., Sakamoto, K., Liu, C., Oh, J., Ren, M., Enomoto, Y., West, E. E., Christensen, S. M., Wan, et al
2023; 8 (89): eadi8217
- **Tox induces T cell IL-10 production in a BATF-dependent manner.** *Frontiers in immunology*
Canaria, D. A., Rodriguez, J. A., Wang, L., Yeo, F. J., Yan, B., Wang, M., Campbell, C., Kazemian, M., Olson, M. R.
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- **IL-1 beta promotes IL-9-producing Th cell differentiation in IL-2-limiting conditions through the inhibition of BCL6** *FRONTIERS IN IMMUNOLOGY*
Canaria, D., Clare, M. G., Yan, B., Campbell, C. B., Ismaio, Z. A., Anderson, N. L., Park, S., Dent, A. L., Kazemian, M., Olson, M. R.
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- **Reply to Grigoriev et al., "Sequences of SARS-CoV-2 'Hybrids' with the Human Genome: Signs of Non-coding RNA?"** *JOURNAL OF VIROLOGY*
Yan, B., Chakravorty, S., Mirabelli, C., Wang, L., Trujillo-Ochoa, J. L., Chauss, D., Kumar, D., Lionakis, M. S., Olson, M. R., Wobus, C. E., Afzali, B., Kazemian, M.
2022; 96 (2): e0169021
- **Mitochondrial C5aR1 activity in macrophages controls IL-1 beta production underlying sterile inflammation** *SCIENCE IMMUNOLOGY*
Niyonzima, N., Rahman, J., Kunz, N., West, E. E., Freiwald, T., Desai, J., Merle, N. S., Gidon, A., Sporsheim, B., Lionakis, M. S., Evensen, K., Lindberg, B., Skagen, et al
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- **STAT5 Represses a STAT3-Independent Th17-like Program during Th9 Cell Differentiation** *JOURNAL OF IMMUNOLOGY*
Canaria, D., Yan, B., Clare, M. G., Zhang, Z., Taylor, G. A., Boone, D. L., Kazemian, M., Olson, M. R.
2021; 207 (5): 1265-1274

- **The C3-like molecule CD109 controls Th1 versus Th17 induction in CD4+T cells**
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- **Host-virus chimeric events in SARS-CoV2 infected cells are infrequent and artifactual.** *bioRxiv : the preprint server for biology*
Yan, B., Chakravorty, S., Mirabelli, C., Wang, L., Trujillo-Ochoa, J. L., Chauss, D., Kumar, D., Lionakis, M. S., Olson, M. R., Wobus, C. E., Afzali, B., Kazemian, M.
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- **Epstein-Barr Virus Episome Physically Interacts with Active Regions of the Host Genome in Lymphoblastoid Cells** *JOURNAL OF VIROLOGY*
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- **An autocrine Vitamin D-driven Th1 shutdown program can be exploited for COVID-19.** *bioRxiv : the preprint server for biology*
McGregor, R., Chauss, D., Freiwald, T., Yan, B., Wang, L., Nova-Lamperti, E., Zhang, Z., Teague, H., West, E. E., Bibby, J., Kelly, A., Malik, A., Freeman, et al
2020
- **SARS-CoV2 drives JAK1/2-dependent local and systemic complement hyper-activation.** *Research square*
Yan, B., Freiwald, T., Chauss, D., Wang, L., West, E., Bibby, J., Olson, M., Kordasti, S., Portilla, D., Laurence, A., Lionakis, M. S., Kemper, C., Afzali, et al
2020
- **Restoration of RNA helicase DDX5 suppresses hepatitis B virus (HBV) biosynthesis and Wnt signaling in HBV-related hepatocellular carcinoma** *THERANOSTICS*
Mani, S., Yan, B., Cui, Z., Sun, J., Utturkar, S., Foca, A., Fares, N., Durantel, D., Lanman, N., Merle, P., Kazemian, M., Andrisani, O.
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- **A potent Cas9-derived gene activator for plant and mammalian cells** *NATURE PLANTS*
Li, Z., Zhang, D., Xiong, X., Yan, B., Xie, W., Sheen, J., Li, J.
2017; 3 (12): 930-936

PRESENTATIONS

- Cellular response to SARS-CoV-2 infection