

LINDA (YU-LING) LAN, PhD

3165 Porter Drive, Palo Alto, CA 94304 • lindsayl@stanford.edu

PROFESSIONAL SUMMARY

Accomplished immunologist specializing in B cell biology and post-acute infection syndromes, with expertise at the intersection of wearable technology, multi-omics analysis, and infectious disease research. Extensive publication record in high-impact journals including *Immunity*, *Nature*, and *Science Translational Medicine*. Proven track record in securing competitive research funding (\$135K+ in grants) and mentoring diverse research teams.

EDUCATION

PhD in Immunology | University of Chicago, Chicago, IL | 2016–2020

Doctor of Veterinary Medicine (DVM) | National Chung Hsing University, Taiwan | 2004–2009

Master of Science | National Taiwan University, Taiwan | 2009–2011

PROFESSIONAL EXPERIENCE

Postdoctoral Research Fellow

Department of Genetics, Stanford University School of Medicine | Palo Alto, CA | 2020–Present

- Lead researcher investigating biomarkers for post-acute infection syndromes (long COVID, ME/CFS, PTLDS) using innovative smartwatch technology and microsampling techniques for longitudinal data collection
- Principal investigator on multi-omics B cell immunology research, combining wearable devices with advanced genomic analysis
- Co-investigator on Stanford ITI & SAAS Seed Grant (\$80K, 2022–2024), investigating autoimmune responses in infection syndromes
- Developed 'Clono,' a user-friendly application for B cell receptor analysis, enhancing accessibility of complex immunological data

PhD Student Researcher

Immunology Program, University of Chicago | Chicago, IL | 2016–2020

- Conducted groundbreaking research on universal influenza vaccine development, identifying broadly neutralizing antibodies targeting conserved hemagglutinin epitopes
- Published first-author paper in *Immunity* and co-first author paper in *Nature* on broadly neutralizing antibody responses
- Developed advanced single-cell analysis techniques integrating transcriptome and surface protein expression (LinQ-View method)

KEY PUBLICATIONS

Co-first author • Guthmiller J*, **Lan LY***, Li L*, et al. Long-lasting B cell convergence to distinct broadly reactive epitopes following vaccination with chimeric influenza virus hemagglutinins. *Immunity*. 2025 Apr. DOI: 10.1016/j.immuni.2025.02.025

Co-author • Guthmiller JJ, Han J, Utset HA, Li L, **Lan LY**, et al. Broadly neutralizing antibodies target a haemagglutinin anchor epitope. *Nature*. 2022 Feb. DOI: 10.1038/s41586-021-04356-8

First author • **Lan LY**, Li L, Huang M, et al. Understanding memory B cell responses to a chimeric-based universal influenza virus vaccine candidate. *The Journal of Immunology*. 2020 May.

Co-first author • Lau D*, **Lan LY***, Andrews S, et al. Low CD21 expression defines a population of recent germinal center graduates primed for plasma cell differentiation. *Science Immunology*. 2017 Jan. DOI: 10.1126/sciimmunol.aai8153

RESEARCH & TECHNICAL SKILLS

Laboratory Techniques: Single-cell RNA sequencing, flow cytometry, ELISA, B cell receptor sequencing, multi-omics integration, microsampling, antibody characterization

Computational: Bioinformatics pipeline development, machine learning applications in immunology, R, Python, data visualization, BCR clonal clustering algorithms

Research Focus: B cell immunology, infectious diseases, vaccine development, post-acute infection syndromes, wearable health technology integration, autoantibody profiling

AWARDS & HONORS

- **AAI Intersect Fellowship for Computational Scientists and Immunologists** — \$55,632 (2023)
- **American Association of Immunologists (AAI) Trainee Abstract Award** (2020)
- **Centers for Excellence in Influenza Research and Surveillance (CEIRS) Training Award** — \$6,000 (2019)
- **Studying Abroad Scholarship**, Taiwan — \$32,000 (2019–2021)
- **Outstanding Reviewer**, International Immunopharmacology Journal-Elsevier (2018)

TEACHING & MENTORING EXPERIENCE

Research Mentor | Stanford University | 2022–Present

- Mentored 10+ students across graduate (MS), medical (MD), undergraduate, and high school levels
- Supervised projects in computational biology, BCR analysis, long COVID research, and machine learning applications

Teaching Assistant | University of Chicago | 2019

- Experimental Immunology course — Led laboratory sessions and mentored undergraduate students

LEADERSHIP & SERVICE

- **President**, Taiwanese Student Association, University of Chicago (2018–2019)
 - *Received William J. Michel Award for most distinguished student organization contribution to campus community*
- **Co-organizer**, 2018 Midwest Taiwanese Biotechnology Symposium
- **Workshop Leader**, Expanding Your Horizons Chicago (2018) — Science education outreach

CERTIFICATIONS

AAI Certificate for Advanced Course in Immunology (2017) • Licensed Veterinarian, Taiwan (2009) • Laboratory Animal Management Certification (2011)