



Tho Duc Pham

Clinical Associate Professor, Pathology

CLINICAL OFFICES

- **Stanford Blood Center**

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Bio

CLINICAL FOCUS

- Anatomic and Clinical Pathology
- Transfusion Medicine
- Blood Safety
- Emerging Infectious Disease

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pathology

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Scientific Committee Chair, California Blood Bank Society (2016 - present)
- Member, AABB (2013 - present)

PROFESSIONAL EDUCATION

- Internship: Stanford University Pathology Residency CA
- Board Certification: Anatomic and Clinical Pathology, American Board of Pathology (2013)
- Board Certification: Blood Banking/Transfusion Medicine, American Board of Pathology (2014)
- Medical Education: University of California, San Diego (2009)
- Residency: Stanford University Hospital and Clinics CA
- Fellowship: Stanford University Hospital and Clinics CA

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My areas of interest involve exploring antibody function as it relates to transfusion medicine, blood safety, and emerging infectious diseases. This ranges from natural immune responses to the ABO blood group, antibody profiling anti-SARS-CoV-2 antibodies, and studying HEV seroprevalence in the local community. I am also interested in exploring statistical approaches to improve blood product availability and overall health care efficiency in a tertiary care system.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Transfusion Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Proinflammatory IgG Fc structures in patients with severe COVID-19** *Nature Immunology*
Chakraborty, S., Gonzales, J., Edwards, K., Mallajosyulla, V., Buzzanco, A. S., Sherwood, R., Buffone, C., Kathale, N., Providenza, S., Xie, M. M., Andrews, J. R., Blish, C. A., Singh, et al
2020
- **Optimizing O-negative RBC utilization using a data-driven approach.** *Transfusion*
Virk, M. S., Lancaster, D., Quach, T., Lim, A., Shu, E., Belanger, G., Pham, T. D.
2020
- **Symptomatic SARS-CoV-2 infections display specific IgG Fc structures.** *medRxiv : the preprint server for health sciences*
Chakraborty, S., Edwards, K., Buzzanco, A. S., Memoli, M. J., Sherwood, R., Mallajosyulla, V., Xie, M. M., Gonzalez, J., Buffone, C., Kathale, N., Providenza, S., Jagannathan, P., Andrews, et al
2020
- **SARS-CoV-2 RNAemia in a Healthy Blood Donor 40 Days After Respiratory Illness Resolution.** *Annals of internal medicine*
Pham, T. D., Huang, C., Wirz, O. F., Röltgen, K., Sahoo, M. K., Layon, A., Pandey, S., Foug, S. K., Boyd, S. D., Pinsky, B. A.
2020
- **High-Titer Isohemagglutinins in Platelet Donors**
Jacob, R., Wang, D., Hodghead, K., Pham, T.
WILEY.2019: 53A–54A
- **A FLOW CYTOMETRY BASED ABO-BLOOD GROUP ANTIBODY ASSAY (FABO-AB) FOR PREDICTING HEMOLYSIS IN ABO-MISMATCHED BONE MARROW TRANSPLANTATION (BMT)**
Liu, H., Nguyen, K. D., Virk, M. S., Pham, T. D., Chen, G.
ELSEVIER SCIENCE INC.2019: 40
- **Shaping of infant B cell receptor repertoires by environmental factors and infectious disease.** *Science translational medicine*
Nielsen, S. C., Roskin, K. M., Jackson, K. J., Joshi, S. A., Nejad, P., Lee, J., Wagar, L. E., Pham, T. D., Hoh, R. A., Nguyen, K. D., Tsunemoto, H. Y., Patel, S. B., Tibshirani, et al
2019; 11 (481)
- **Shaping of infant B cell receptor repertoires by environmental factors and infectious disease** *SCIENCE TRANSLATIONAL MEDICINE*
Nielsen, S. A., Roskin, K. M., Jackson, K. L., Joshi, S. A., Nejad, P., Lee, J., Wagar, L. E., Pham, T. D., Hoh, R. A., Nguyen, K. D., Tsunemoto, H. Y., Patel, S. B., Tibshirani, et al
2019; 11 (481)
- **Molecular Characterizations of Anti-ABO Blood Group Antibodies**
Nguyen, K., Pham, T., Boyd, S.
WILEY.2018: 22A

- **Streamlining a blood center and hospital transfusion service supply chain with an informatics vendor-managed inventory solution: development, implementation, and 3-month follow-up** *TRANSFUSION*
Tsang, H. C., Garcia, A., Scott, R., Lancaster, D., Geary, D., Anh-Thu Nguyen, Shankar, R., Buchanan, L., Pham, T. D.
2018; 58 (7): 1718–25
- **Big data modeling to predict platelet usage and minimize wastage in a tertiary care system** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Guan, L., Tian, X., Gombar, S., Zemek, A. J., Krishnan, G., Scott, R., Narasimhan, B., Tibshirani, R. J., Pham, T. D.
2017; 114 (43): 11368–73
- **Occult Hemolytic Anemia Due to Anti-Mur in a Patient Receiving Blood from a Region with a Prominent Asian Donor Population**
Oak, J., Mallari, R., de Asis, M., Shu, E., Hughes, J., Pham, T.
WILEY.2017: 178A
- **Normalizing Microbiota-Induced Retinoic Acid Deficiency Stimulates Protective CD8(+) T Cell-Mediated Immunity in Colorectal Cancer.** *Immunity*
Bhattacharya, N., Yuan, R., Prestwood, T. R., Penny, H. L., DiMaio, M. A., Reticker-Flynn, N. E., Krois, C. R., Kenkel, J. A., Pham, T. D., Carmi, Y., Tolentino, L., Choi, O., Hulett, et al
2016; 45 (3): 641-655
- **Human B-cell isotype switching origins of IgE** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Looney, T. J., Lee, J., Roskin, K. M., Hoh, R. A., King, J., Glanville, J., Liu, Y., Pham, T. D., Dekker, C. L., Davis, M. M., Boyd, S. D.
2016; 137 (2): 579-?
- **Single B-cell deconvolution of peanut-specific antibody responses in allergic patients** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Hoh, R. A., Joshi, S. A., Liu, Y., Wang, C., Roskin, K. M., Lee, J., Pham, T., Looney, T. J., Jackson, K. J., Dixit, V. P., King, J., Lyu, S., Jenks, et al
2016; 137 (1): 157-167
- **Normalizing microbiota-induced retinoic acid deficiency stimulates protective CD8+ T-cell-mediated immunity in colorectal cancer** *Immunity*
Bhattacharya, N., Yuan, R., Prestwood, T., Penny, H., DiMaio, M., Reticker-Flynn, N., Krois, C., Kenkel, J., Pham, T., Carmi, Y., Tolentino, L., Choi, O., Hulett, et al
2016; 45: 641–55
- **How do I implement an automated screen for high-titer ABO antibody as an inventory management tool for ABO plasma-incompatible platelets?** *TRANSFUSION*
Fontaine, M. J., Webster, J., Gomez, S., Pham, T. D., Goodnough, L. T., Galel, S. A.
2015; 55 (12): 2783-2789
- **IgH sequences in common variable immune deficiency reveal altered B cell development and selection.** *Science translational medicine*
Roskin, K. M., Simchoni, N., Liu, Y., Lee, J., Seo, K., Hoh, R. A., Pham, T., Park, J. H., Furman, D., Dekker, C. L., Davis, M. M., James, J. A., Nadeau, et al
2015; 7 (302): 302ra135-?
- **IgH sequences in common variable immune deficiency reveal altered B cell development and selection.** *Science translational medicine*
Roskin, K. M., Simchoni, N., Liu, Y., Lee, J., Seo, K., Hoh, R. A., Pham, T., Park, J. H., Furman, D., Dekker, C. L., Davis, M. M., James, J. A., Nadeau, et al
2015; 7 (302): 302ra135-?
- **How do I implement an automated screen for high-titer ABO antibody as an inventory management tool for ABO plasma-incompatible platelets?** *Transfusion*
Fontaine, M. J., Webster, J., Gomez, S., Pham, T. D., Goodnough, L. T., Galel, S. A.
2015; 55 (12): 2783–89
- **Human B-cell isotype switching origins of IgE.** *The Journal of allergy and clinical immunology*
Looney, T. J., Lee, J. Y., Roskin, K. M., Hoh, R. A., King, J., Glanville, J., Liu, Y., Pham, T. D., Dekker, C. L., Davis, M. M., Boyd, S. D.
2015
- **Single B-cell deconvolution of peanut-specific antibody responses in allergic patients.** *The Journal of allergy and clinical immunology*
Hoh, R. A., Joshi, S. A., Liu, Y., Wang, C., Roskin, K. M., Lee, J. Y., Pham, T., Looney, T. J., Jackson, K. J., Dixit, V. P., King, J., Lyu, S. C., Jenks, et al
2015
- **Effects of Aging, Cytomegalovirus Infection, and EBV Infection on Human B Cell Repertoires** *JOURNAL OF IMMUNOLOGY*
Wang, C., Liu, Y., Xu, L. T., Jackson, K. J., Roskin, K. M., Pham, T. D., Laserson, J., Marshall, E. L., Seo, K., Lee, J., Furman, D., Koller, D., Dekker, et al

