



## Brandon Lam

- MD Student with Scholarly Concentration in Molecular Basis of Medicine, expected graduation Spring 2026
- Other Tech - Graduate, Pathology Sponsored Projects

### Bio

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#### EDUCATION AND CERTIFICATIONS

- Doctor of Philosophy, Johns Hopkins University (2021)
- Bachelor of Science, University of Florida (2015)

### Publications

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#### PUBLICATIONS

- **Detection of SARS-CoV-2 Antibodies in Immunoglobulin Products.** *The journal of allergy and clinical immunology. In practice*  
Cousins, K., Sano, K., Lam, B., Roltgen, K., Bhavsar, D., Singh, G., Jeong, S., Aboelregal, N., Ho, H., Boyd, S., Krammer, F., Cunningham-Rundles, C.  
2023
- **An mTORC1-mediated negative feedback loop constrains amino acid-induced FLCN-Rag activation in renal cells with TSC2 loss.** *Nature communications*  
Asrani, K., Woo, J., Mendes, A. A., Schaffer, E., Vidotto, T., Villanueva, C. R., Feng, K., Oliveira, L., Murali, S., Liu, H. B., Salles, D. C., Lam, B., Argani, et al  
2022; 13 (1): 6808
- **Localization of Salmonella and albumin-IL-2 to the tumor microenvironment augments anticancer T cell immunity.** *Journal of biomedical science*  
Kung, Y., Lam, B., Tseng, S., MacDonald, A., Tu, H., Wang, S., Lin, J., Tsai, Y. C., Wu, T. C., Hung, C.  
2022; 29 (1): 57
- **Albumin and interferon-beta fusion protein serves as an effective vaccine adjuvant to enhance antigen-specific CD8+ T cell-mediated antitumor immunity.** *Journal for immunotherapy of cancer*  
Tseng, S., Cheng, M. A., Farmer, E., Ferrall, L., Kung, Y. J., Lam, B., Lim, L., Wu, T., Hung, C.  
2022; 10 (4)
- **Repeatability and reproducibility of a handheld quantitative G6PD diagnostic.** *PLoS neglected tropical diseases*  
Ley, B., Winasti Satyagraha, A., Kibria, M. G., Armstrong, J., Bancone, G., Bei, A. K., Bizij, G., Brito, M., Ding, X. C., Domingo, G. J., von Fricken, M. E., Gornsawun, G., Lam, et al  
2022; 16 (2): e0010174
- **THE STANDARD G6PD TEST (SD BIOSENSOR) SHOWS GOOD REPEATABILITY AND REPRODUCIBILITY IN A MULTI-LABORATORY COMPARISON**  
Ley, B., Satyagraha, A., Kibria, M. G., Armstrong, J., Bizij, G., Bancone, G., Wojnarski, M., Bei, A. K., Brito, M., Domingo, G., Ding, X., von Fricken, M., Gornsawun, et al  
AMER SOC TROP MED & HYGIENE.2021: 346
- **SOCS1 mimetics attenuate autoimmune pathology in a murine model of lupus**  
Sharma, J., Collins, T., Lam, B., Cain, A., Roach, T., Cornaby, C., Polk, T. B., Morel, L., Larkin, J.  
AMER ASSOC IMMUNOLOGISTS.2021
- **Novel immunotherapeutic Albumin-Flt3L enhances antigen-specific immunity and tumor control following chemoradiation: An analysis of underlying mechanism**

- Kung, Y., Lam, B., Lin, J., Wu, T. C., Hung, C.  
AMER ASSOC IMMUNOLOGISTS.2021
- **A novel pseudovirus-based mouse model of SARS-CoV-2 infection to test COVID-19 interventions** *JOURNAL OF BIOMEDICAL SCIENCE*  
Tseng, S., Lam, B., Kung, Y., Lin, J., Liu, L., Tsai, Y., Ferrall, L., Roden, R. S., Wu, T. C., Hung, C.  
2021; 28 (1): 34
  - **In vivo characterization of emerging SARS-CoV-2 variant infectivity and human antibody escape potential.** *Cell reports*  
Lam, B., Kung, Y. J., Lin, J., Tseng, S. H., Tsai, Y. C., He, L., Castiglione, G., Egbert, E., Duh, E. J., Bloch, E. M., Tobian, A. A., Milstone, A. M., Roden, et al  
2021; 37 (3): 109838
  - **Chirality and asymmetry increase the potency of candidate ADRM1/RPN13 inhibitors.** *PloS one*  
Anchoori, R. K., George, L., Tseng, S. H., Lam, B., Polkappally, S., Amiano, A. D., Foran, P., Tsingine, H., Samanapally, H., Carrizo Velasquez, F., Das, S., Xing, D., Bin Salam, et al  
2021; 16 (9): e0256937
  - **Delivery of IL-2 to the T Cell Surface Through Phosphatidylserine Permits Robust Expansion of CD8 T Cells.** *Frontiers in immunology*  
MacDonald, A., Lam, B., Lin, J., Ferrall, L., Kung, Y. J., Tsai, Y. C., Wu, T. C., Hung, C. F.  
2021; 12: 755995
  - **Suppressor of cytokine signaling-1 mimetic peptides attenuate lymphocyte activation in the MRL/lpr mouse autoimmune model.** *Scientific reports*  
Sharma, J., Collins, T. D., Roach, T., Mishra, S., Lam, B. K., Mohamed, Z. S., Veal, A. E., Polk, T. B., Jones, A., Cornaby, C., Haider, M. I., Zeumer-Spataro, L., Johnson, et al  
2021; 11 (1): 6354
  - **Development of a Novel Mouse Model of Spontaneous High-Risk HPV6/E7-Expressing Carcinoma in the Cervicovaginal Tract.** *Cancer research*  
Henkle, T. R., Lam, B., Kung, Y. J., Lin, J., Tseng, S. H., Ferrall, L., Xing, D., Hung, C. F., Wu, T. C.  
2021; 81 (17): 4560-4569
  - **Promotion of cross-presenting DC expansion in humanized mice and antigen-specific immunity in murine models of vaccination and cancer by Albumin-Flt3L**  
Lam, B., Lin, J., Kung, Y., Tan, M., Yang, A., Wu, T. C., Hung, C.  
AMER ASSOC IMMUNOLOGISTS.2020
  - **NKG2D-Fc fusion protein promotes antitumor immunity through the depletion of immunosuppressive cells.** *Cancer immunology, immunotherapy : CII*  
Feng, P. H., Lam, B., Tseng, S. H., Kung, Y. J., Farmer, E., Cheng, M. A., Hung, C. F.  
2020; 69 (10): 2147-2155
  - **Molecular Characteristics of Rickettsia in Ticks Collected along the Southern Border of Mongolia.** *Pathogens (Basel, Switzerland)*  
von Fricken, M. E., Voorhees, M. A., Koehler, J. W., Asbun, C., Lam, B., Quorollo, B., Hogan, K. M., Baasandagva, U., Jigjav, B., Schoepp, R. J.  
2020; 9 (11)
  - **Novel, genetically induced mouse model that recapitulates the histological morphology and immunosuppressive tumor microenvironment of metastatic peritoneal carcinomatosis.** *Journal for immunotherapy of cancer*  
Tseng, S. H., Park, S. T., Lam, B., Tsai, Y. C., Cheng, M. A., Farmer, E., Xing, D., Hung, C. F.  
2020; 8 (1)
  - **Annexin A5 as an immune checkpoint inhibitor and tumor-homing molecule for cancer treatment.** *Nature communications*  
Kang, T. H., Park, J. H., Yang, A., Park, H. J., Lee, S. E., Kim, Y. S., Jang, G. Y., Farmer, E., Lam, B., Park, Y. M., Hung, C. F.  
2020; 11 (1): 1137
  - **Albumin-Flt3L-induced cross-presenting dendritic cells promote neoantigen-specific antitumor immunity and subsequent tumor control in murine models of cancer**  
Lam, B., Esquivel, D., Lee, B., Tan, M., Wu, T. C., Hung, C.  
AMER ASSOC IMMUNOLOGISTS.2019
  - **INVESTIGATING THE PREVALENCE OF PREVIOUS SPOTTED FEVER GROUP RICKETTSIA EXPOSURE ALONG THE SOUTHERN BORDER OF MONGOLIA**  
von Fricken, M. E., Voorhees, M. A., Asbun, C., Lam, B., Kuehnert, P., Koehler, J. W., Quorollo, B., Jamsransuren, D., Adiyadorj, D., Baasandagva, U., Jigjav, B., Schoepp, R. J.  
AMER SOC TROP MED & HYGIENE.2019: 38

- **TLR9 acts as a sensor for tumor-released DNA to modulate anti-tumor immunity after chemotherapy.** *Journal for immunotherapy of cancer*  
Kang, T. H., Mao, C. P., Kim, Y. S., Kim, T. W., Yang, A., Lam, B., Tseng, S. H., Farmer, E., Park, Y. M., Hung, C. F.  
2019; 7 (1): 260
- **mTORC1 feedback to AKT modulates lysosomal biogenesis through MiT/TFE regulation.** *The Journal of clinical investigation*  
Asrani, K., Murali, S., Lam, B., Na, C. H., Phatak, P., Sood, A., Kaur, H., Khan, Z., Noë, M., Anchoori, R. K., Talbot, C. C., Smith, B., Skaro, et al  
2019; 129 (12): 5584-5599
- **Type-1 Interferons Impair the Immunoregulatory Activity of IL-10: Understanding the Mechanisms of Abrogation of Transplant Tolerance**  
Lozano, M., Chicco, M., Arun, A., Lam, B., Ivanova, V., Lee, W., Brandacher, G., Raimondi, G.  
LIPPINCOTT WILLIAMS & WILKINS.2018: S51
- **Type-1 interferon impairs the immunoregulatory activity of IL-10: Understanding the mechanisms of abrogation of transplant tolerance**  
Lozano, M., Arun, A., Chicco, M., Lam, B., Ivanova, V., Lee, W., Brandacher, G., Raimondi, G.  
AMER ASSOC IMMUNOLOGISTS.2018
- **MOLECULAR CHARACTERISTICS OF RICKETTSIA IN TICKS COLLECTED ALONG THE SOUTHERN BORDER OF MONGOLIA**  
von Fricken, M., Voorhees, M., Lam, B., Koehler, J., Padilla, S., Qurollo, B., Asbun, C., Jamsransuren, D., Adiyadorj, D., Baasandagwa, U., Jigjav, B., Schoepp, R.  
AMER SOC TROP MED & HYGIENE.2018: 262
- **Type-I Interferons Inhibit Interleukin-10 Signaling and Favor Type 1 Diabetes Development in Nonobese Diabetic Mice.** *Frontiers in immunology*  
Iglesias, M., Arun, A., Chicco, M., Lam, B., Talbot, C. C., Ivanova, V., Lee, W. P., Brandacher, G., Raimondi, G.  
2018; 9: 1565
- **Interferon-gamma signaling inhibition by a suppressor of cytokine signaling-1 (SOCS-1) mimetic peptide ameliorates lupus pathology in a spontaneous mouse model.**  
Collins, T. D., Lam, B. K., Mohamed, Z., Mishra, S., Larkin, J.  
AMER ASSOC IMMUNOLOGISTS.2016
- **Sparse serological evidence of Plasmodium vivax transmission in the Ouest and Sud-Est departments of Haiti.** *Acta tropica*  
Weppelmann, T. A., von Fricken, M. E., Lam, B., Telisma, T., Existe, A., Lemoine, J. F., Larkin, J., Okech, B. A.  
2016; 162: 27-34
- **Aberrant IL-17 production, mediated by SOCS1 deficiency, promotes inflammatory skin pathologies and lymphadenopathy in an IFN gamma independent manner.**  
Lam, B., Armbruster, C., Cain, A., Collins, T., Larkin, J.  
AMER ASSOC IMMUNOLOGISTS.2015
- **Dysregulated cytokine production by leukocytes, mediated by SOCS1 deficiency, is correlated to skin pathology: implications for therapeutic targeting.**  
Lam, B., Wilson, T., Bedoya, S., Armbruster, C., Johnson, H., Larkin, J.  
AMER ASSOC IMMUNOLOGISTS.2014
- **Age-specific malaria seroprevalence rates: a cross-sectional analysis of malaria transmission in the Ouest and Sud-Est departments of Haiti.** *Malaria journal*  
von Fricken, M. E., Weppelmann, T. A., Lam, B., Eaton, W. T., Schick, L., Masse, R., Beau De Rochars, M. V., Existe, A., Larkin, J., Okech, B. A.  
2014; 13: 361
- **Th17 cells in immunity and autoimmunity.** *Clinical & developmental immunology*  
Bedoya, S. K., Lam, B., Lau, K., Larkin, J.  
2013; 2013: 986789