

CURRICULUM VITAE
The Johns Hopkins University School of Medicine

Andrew H. Karaba, MD, PhD

August 8, 2025

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

University

2021-present Assistant Professor, Department of Medicine, Division of Infectious Diseases, Johns Hopkins University School of Medicine, Baltimore, MD
2021-present Faculty, Transplant Oncology Infectious Diseases (TOID) Tucker Service, JHU
2022-present Associate Director of Basic/Translational Research, Transplant Research Center (TRC), JHU

Hospital

2021-present Attending Physician, Johns Hopkins Hospital (JHH)
2021-present Attending Physician, Johns Hopkins Bayview Medical Center

Education and Training

Undergraduate

6/2007 B.A., Integrated Science, Biology, and Chemistry, Northwestern University, Evanston, IL, with honors

Doctoral/graduate

9/2013 PhD., Virology, Northwestern University, Chicago, IL, Thesis advisor: Richard Longnecker, Ph.D.
5/2015 M.D., Feinberg School of Medicine (FSM), Northwestern University, Chicago, IL, Summa cum laude

Postdoctoral

2015-2017 Intern/Resident, Internal Medicine, JHH, Baltimore, MD
2017-2020 Fellow, Infectious Diseases, JHU, Baltimore, MD

Professional Experience

2021-present Assistant Professor, Department of Medicine, Division of Infectious Diseases, JHU
2022-present Associate Director of Basic/Translational Research, TRC, JHU

PUBLICATIONS:

*Corresponding and/or senior author

‡ co-first author

Original Research [OR]

1. Tuma J, Tonzani S, Schatz GC, **Karaba AH**, Lewis FD. Structure and Electronic Spectra of DNA Mini-hairpins with G n: C n Stems. *J Phys Chem B*. 2007;111(45):13101–13106. doi:10.1021/jp072303m [data acquisition, analysis, manuscript partial draft and review]
2. McCullagh M, Zhang L, **Karaba AH**, Zhu H, Schatz GC, Lewis FD. Effect of Loop Distortion on the Stability and Structural Dynamics of DNA Hairpin and Dumbbell Conjugates. *J Phys Chem B*. 2008;112(36):11415–11421. doi:10.1021/jp802378a [data acquisition, analysis, manuscript partial draft and review]
3. **Karaba AH**, Kopp SJ, Longnecker R. Herpesvirus entry mediator and nectin-1 mediate herpes simplex virus 1 infection of the murine cornea. *J Virol*. 2011;85(19):10041–10047. doi:10.1128/JVI.05445-11
4. **Karaba AH**, Cohen LK, Glaubach T, Kopp SJ, Reichel JL, Yoon HH, Zheng XT, Muller WJ. Longitudinal Characterization of Herpes Simplex Virus (HSV) Isolates Acquired From Different Sites in an Immune-Compromised Child: A New HSV Thymidine Kinase Mutation Associated with Resistance. *Pediatr Infect Dis J*. 2012;1(2):116–124. doi:10.1093/jpids/pis009

5. **Karaba AH**, Kopp SJ, Longnecker R. Herpesvirus entry mediator is a serotype specific determinant of pathogenesis in ocular herpes. *Proc Natl Acad Sci USA*. 2012;109(48):19432–19437. doi:10.1073/pnas.1216967109
6. Kopp SJ, **Karaba AH**, Cohen LK, Banisadr G, Miller RJ, Muller WJ. Pathogenesis of neonatal herpes simplex 2 disease in a mouse model is dependent on entry receptor expression and route of inoculation. *J Virol*. 2012;86(23):13409–13413. doi:10.1128/JVI.01849-12 [data acquisition, analysis, manuscript review]
7. Kopp SJ, Ranaivo HR, Wilcox DR, **Karaba AH**, Wainwright MS, Muller WJ. Herpes simplex virus serotype and entry receptor availability alter CNS disease in a mouse model of neonatal HSV. *Pediatr Res*. 2014;76(6):528–534. doi:10.1038/pr.2014.135 [data acquisition, analysis, manuscript review]
8. Edwards RG, Kopp SJ, **Karaba AH**, Wilcox DR, Longnecker R. Herpesvirus entry mediator on radiation-resistant cell lineages promotes ocular herpes simplex virus 1 pathogenesis in an entry-independent manner. *mBio*. 2015;6(5):e01532–15. doi:10.1128/mBio.01532-15 [data acquisition, analysis, manuscript review]
9. **Karaba AH**, Blair PW, Martin K, Saheed MO, Carroll KC, Borowitz MJ. The Effects of a Systemwide Diagnostic Stewardship Change on West Nile Virus Disease Ordering Practices. *Open Forum Infect Dis*. 2019;6(12):ofz488. doi:10.1093/ofid/ofz488 [SI/QI]
10. Gladstone DE, Kim BS, Mooney K, **Karaba AH**, D'Alessio FR. Regulatory T Cells for Treating Patients With COVID-19 and Acute Respiratory Distress Syndrome: Two Case Reports. *Ann Intern Med*. 2020;173(2):e89–e91. doi:10.7326/L20-0681 [data acquisition, analysis, manuscript review]
11. **Karaba AH**, Figueroa A, Massaccesi G, Botto S, DeFilippis VR, Cox AL. Herpes simplex virus type 1 inflammasome activation in proinflammatory human macrophages is dependent on NLRP3, ASC, and caspase-1. *PLOS ONE*. 2020;15(2):e0229570. doi:10.1371/journal.pone.0229570
12. Ignatius EH, Wang K, **Karaba AH**, Robinson M, Avery RK, Blair PW, Chida N, Jain T, Petty BG, Siddiqui Z, Melia MT, Auwaerter PG, Xu Y, Garibaldi BT. Tocilizumab for the Treatment of COVID-19 Among Hospitalized Patients: A Matched Retrospective Cohort Analysis. *Open Forum Infect Dis*. 2021;8(1):ofaa598. doi:10.1093/ofid/ofaa598 [data acquisition, critical manuscript review]
13. **Karaba AH**, Zhou W, Hsieh LL, Figueroa A, Massaccesi G, Rothman RE, Fenstermacher KZJ, Sauer L, Shaw-Saliba K, Blair PW, Robinson ML, Leung S, Wesson R, Alachkar N, El-Diwany R, Ji H, Cox AL. Differential Cytokine Signatures of SARS-CoV-2 and Influenza Infection Highlight Key Differences in Pathobiology. *Clin Infect Dis*. 2021;74(2):254–262. doi:10.1093/cid/ciab376
14. **Karaba AH**, Figueroa A, Werbel WA, Dioverti MV, Steinke SM, Ray SC, Cox AL, Avery RK. Interleukin-18 and tumor necrosis factor- α are elevated in solid organ transplant recipients with possible cytomegalovirus end-organ disease. *Transpl Infect Dis*. 2021;23(4):e13682. doi:10.1111/tid.13682
15. Peart Akindele N, Kouo T, **Karaba AH**, Gordon O, Fenstermacher KZJ, Beaudry J, Rubens JH, Atik CC, Zhou W, Ji H, Tao X, Vaidya D, Mostafa H, Caturegli P, Blair PW, Sauer L, Cox AL, Persaud D. Distinct Cytokine and Chemokine Dysregulation in Hospitalized Children with Acute COVID-19 and Multisystem Inflammatory Syndrome with Similar Levels of Nasopharyngeal SARS-CoV-2 Shedding. *J Infect Dis*. 2021;224(9):1462–1471. doi:10.1093/infdis/jiab285 [data acquisition, analysis, critical manuscript review]
16. Ruddy JA, Boyarsky BJ, Bailey JR, **Karaba AH**, Garonzik-Wang JM, Segev DL, Durand CM, Werbel WA. Safety and antibody response to two-dose SARS-CoV-2 messenger RNA vaccination in persons with HIV. *AIDS*. 2021;35(13):2135–2137. doi:10.1097/QAD.0000000000003017 [analysis review, critical manuscript review]
17. Ruddy JA, Boyarsky BJ, Werbel WA, Bailey JR, **Karaba AH**, Garonzik-Wang JM, Segev DL, Durand CM. Safety and antibody response to the first dose of SARS-CoV-2 messenger RNA vaccine in persons with HIV. *AIDS*. 2021;35(13):2131–2132. doi:10.1097/QAD.0000000000002945 [analysis review, critical manuscript review]
18. Woldemeskel BA, **Karaba AH**, Garliss CC, Beck EJ, Wang KH, Laeyendecker O, Cox AL, Blankson JN. The BNT162b2 mRNA Vaccine Elicits Robust Humoral and Cellular Immune Responses in People Living with HIV. *Clin Infect Dis*. 2021;73(7):e1961–e1967. doi:10.1093/cid/ciab648 [data acquisition, analysis, critical manuscript review]

19. **Karaba AH**, Zhu X, Benner SE, Akinde O, Eby Y, Wang KH, Saraf S, Garonzik-Wang JM, Klein SL, Bailey JR, Cox AL, Blankson JN, Durand CM, Segev DL, Werbel WA, Tobian AAR. Higher Proinflammatory Cytokines Are Associated With Increased Antibody Titer After a Third Dose of SARS-CoV-2 Vaccine in Solid Organ Transplant Recipients. *Transplantation*. 2022;106(4):835–841. doi:10.1097/TP.0000000000004057
20. **Karaba AH**, Zhu X, Liang T, Wang KH, Rittenhouse AG, Akinde O, Eby Y, Ruff JE, Blankson JN, Abedon AT, Alejo JL, Cox AL, Bailey JR, Thompson EA, Klein SL, Warren DS, Garonzik-Wang JM, Boyarsky BJ, Sitaras I, Pekosz A, Segev DL, Tobian AAR, Werbel WA. A third dose of SARS-CoV-2 vaccine increases neutralizing antibodies against variants of concern in solid organ transplant recipients. *Am J Transplant*. 2022;22(3):1032–1039. doi:10.1111/ajt.16933
21. Mitchell J, Kim J, Alejo JL, Chiang TPY, **Karaba AH**, Blankson JN, Aytenfisu TY, Chang A, Abedon AT, Avery RK, Tobian AA, Massie AB, Levan ML, Warren DS, Garonzik-Wang JM, Segev DL, Werbel WA. Humoral and Cellular Immune Response to a Third Dose of SARS-CoV-2 Vaccine in Kidney Transplant Recipients Taking Belatacept. *Transplantation*. 2022;106(6):1180–1189. doi:10.1097/TP.0000000000004100 [data acquisition, analysis, critical manuscript review]
22. **Karaba AH**, Johnston TS, Aytenfisu TY, Akinde O, Eby Y, Ruff JE, Abedon AT, Alejo JL, Blankson JN, Cox AL, Bailey JR, Klein SL, Pekosz A, Segev DL, Tobian AAR, Werbel WA. A Fourth Dose of COVID-19 Vaccine Does Not Induce Neutralization of the Omicron Variant Among Solid Organ Transplant Recipients with Suboptimal Vaccine Response. *Transplantation*. 2022;106(7):1440–1444. doi:10.1097/TP.0000000000004140
23. Woldemeskel BA, Garliss CC, Aytenfisu TY, Johnston TS, Beck EJ, Dykema AG, Frumento N, Wright DA, Yang AH, Damanakis AI, Laeyendecker O, Cox AL, Mostafa HH, **Karaba AH**, Blankson JN. SARS-CoV-2-specific immune responses in boosted vaccine recipients with breakthrough infections during the Omicron variant surge. *JCI Insight*. 2022;7(8):e159474. doi:10.1172/jci.insight.159474 [data acquisition, analysis, critical manuscript review]
24. Woldemeskel BA, Garliss CC, Aytenfisu TY, Johnston TS, Cox AL, **Karaba AH**, Blankson JN. Discordant Antibody and T-Cell Responses to the Severe Acute Respiratory Syndrome Coronavirus 2 Omicron Variant in Coronavirus Disease 2019 Messenger RNA Vaccine Recipients. *Clin Infect Dis*. 2022;75(11):1964–1971. doi:10.1093/cid/ciac305 [data acquisition, analysis, critical manuscript review]
25. Figueiredo JC, Hirsch FR, Kushi LH, Nembhard WN, Crawford JM, Mantis N, Finster L, Merin NM, Merchant A, Reckamp KL, Melmed GY, Braun J, McGovern D, Parekh S, Corley DA, Zohoori N, Amick BC, Du R, Gregersen PK, Diamond B, Taioli E, Sariol C, Espino A, Weiskopf D, Gifoni A, Brien J, Hanege W, Lipsitch M, Zidar DA, McAlearney AS, Wajnberg A, LaBaer J, Lewis EY, Binder RA, Moormann AM, Forconi C, Forrester S, Batista J, Schieffelin J, Kim D, Biancon G, VanOudenhove J, Halene S, Fan R, Barouch DH, Alter G, Pinninti S, Boppana SB, Pati SK, Latting M, **Karaba AH**, Roback J, Sekaly R, Neish A, Brincks AM, Granger DA, Karger AB, Thyagarajan B, Thomas SN, Klein SL, Cox AL, Lucas T, Furr-Holden D, Key K, Jones N, Wrammerr J, Suthar M, Yu Wong S, Bowman NM, Simon V, Richardson LD, McBride R, Krammer F, Rana M, Kennedy J, Boehme K, Forrest C, Granger SW, Heaney CD, Knight Lapinski M, Wallet S, Baric RS, Schifanella L, Lopez M, Fernández S, Kenah E, Panchal AR, Britt WJ, Sanz I, Dhodapkar M, Ahmed R, Bartelt LA, Markmann AJ, Lin JT, Hagan RS, Wolfgang MC, Skarbinski J. Mission, Organization and Future Direction of the Serological Sciences Network for COVID-19 (SeroNet) Epidemiologic Cohort Studies. *Open Forum Infect Dis*. 2022;9(4):ofac171. doi:10.1093/ofid/ofac171 [partial draft, critical manuscript review]
26. Chiang TPY, Alejo JL, Mitchell J, Kim JD, Abedon AT, **Karaba AH**, Thomas L, Levan ML, Garonzik-Wang JM, Avery RK, Pekosz A, Clarke WA, Warren DS, Tobian AAR, Massie AB, Segev DL, Werbel WA. Heterologous Ad26.COVS.2 vs homologous BNT162b2/mRNA-1273 as a third dose in solid organ transplant recipients seronegative after two-dose mRNA vaccination. *Am J Transplant*. 2022;22(9):2253–2263. doi:10.1111/ajt.17061 [data acquisition, analysis, critical manuscript review]
27. Shapiro JR, Sitaras I, Park HS, Aytenfisu TY, Caputo C, Li M, Lee J, Johnston TS, Li H, Wouters C, Hauk P, Jacobsen H, Li Y, Abrams E, Yoon S, Kocot AJ, Yang T, Huang Y, Cramer SM, Betenbaugh MJ, Debes AK, Morgan R, Milstone AM, **Karaba AH**, Pekosz A, Leng SX, Klein SL. Association of frailty, age, and biological sex with SARS-CoV-2 mRNA vaccine-induced immunity in older adults. *Clin Infect Dis*. 2022;75(11):1972–1980. doi:10.1093/cid/ciac397 [data acquisition, analysis, critical manuscript review]

28. **Karaba AH**, Johnston TS, Aytenfisu TY, Woldemeskel BA, Garliss CC, Cox AL, Blankson JN. Low neutralisation of the Omicron BA.2 sublineage in boosted individuals who had breakthrough infections. *Lancet Microbe*. 2022;3(8):e545. doi:10.1016/S2666-5247(22)00180-X
29. Woldemeskel BA, **Karaba AH**, Garliss CC, Beck EJ, Aytenfisu TY, Johnston TS, Laeyendecker O, Cox AL, Blankson JN. Decay of coronavirus disease 2019 mRNA vaccine-induced immunity in people with HIV. *AIDS*. 2022;36(9):1315–1317. doi:10.1097/QAD.0000000000003263 [data acquisition, analysis, critical manuscript review]
30. **Karaba AH***, Zhou W, Li S, Aytenfisu TY, Johnston TS, Akinde O, Eby Y, Abedon AT, Alejo JL, Qin CX, Thompson EA, Garonzik-Wang JM, Blankson JN, Cox AL, Bailey JR, Klein SL, Pekosz A, Segev DL, Tobian AAR, Werbel WA. Impact of Seasonal Coronavirus Antibodies on SARS-CoV-2 Vaccine Responses in Solid Organ Transplant Recipients. *Clin Infect Dis*. 2022;76(3):430–439. doi:10.1093/cid/ciac652
31. Teles MS, Lushniak S, Po-Yu Chiang T, Bailey JR, Gebo KA, **Karaba AH**, Durand CM, Segev DL, Connolly CM, Werbel WA. Immunogenicity and Reactogenicity Following 2- and 3-Dose SARS-CoV-2 Vaccination in Persons With HIV. *J AIDS J Acquir Immune Defic Syndr*. 2023;92(1):e1–e10. doi:10.1097/QAI.0000000000003112 [data acquisition, analysis, critical manuscript review]
32. **Karaba AH**, Kim JD, Chiang TPY, Alejo JL, Sitaras I, Abedon AT, Eby Y, Johnston TS, Li M, Aytenfisu T, Hussey C, Jefferis A, Fortune N, Abedon R, Thomas L, Habtehyimer F, Ruff J, Warren DS, Avery RK, Clarke WA, Pekosz A, Massie AB, Tobian AA, Segev DL, Werbel WA. Neutralizing activity and 3-month durability of tixagevimab and cilgavimab prophylaxis against Omicron sublineages in transplant recipients. *Am J Transplant*. 2023;23(8):1343–1353. doi:10.1016/j.ajt.2022.11.002
33. **Karaba AH**, Johnston TS, Beck EJ, Laeyendecker O, Cox AL, Klein SL, Sullivan DJ. Endemic Human Coronavirus Antibody Levels Are Unchanged after Convalescent or Control Plasma Transfusion for Early Outpatient COVID-19 Treatment. *mBio*. 2023;14(1):e03287–22. doi:10.1128/mbio.03287-22
34. Alejo JL, Kim JD, Chiang TPY, Avery RK, **Karaba AH**, Jefferis A, Warren DS, Massie AB, Tobian AAR, Segev DL, Werbel WA. Patient-reported outcomes after Tixagevimab and Cilgavimab pre-exposure prophylaxis among solid organ transplant recipients: Safety, effectiveness, and perceptions of risk. *Clin Transplant*. 2023;37(1):e14913. doi:10.1111/ctr.14913 [critical manuscript review]
35. Connolly CM‡, **Karaba AH‡**, Po-Yu Chiang T, Teles M, Kim JD, Johnston TS, Alejo JL, Segev DL, Christopher-Stine L, Werbel WA, Paik JJ. Low Omicron BA.4 and BA.5 neutralising activity and breakthrough COVID-19 following pre-exposure prophylaxis with tixagevimab plus cilgavimab in vaccinated patients with autoimmune disease. *Clin Exp Rheumatol*. 2023;41(2):350–357. doi:10.55563/clinexp Rheumatol/pfli7o
36. Werbel WA, **Karaba AH**, Chiang TPY, Massie AB, Brown DM, Watson N, Chahoud M, Thompson EA, Johnson AC, Avery RK, Cochran WV, Warren D, Liang T, Fribourg M, Huerta C, Samaha H, Klein SL, Bettinotti MP, Clarke WA, Sitaras I, Roupheal N, Cox AL, Bailey JR, Pekosz A, Tobian AAR, Durand CM, Bridges ND, Larsen CP, Heeger PS, Segev DL. Persistent SARS-CoV-2-specific immune defects in kidney transplant recipients following third mRNA vaccine dose. *Am J Transplant*. 2023;23(3):568–578. doi:10.1016/j.ajt.2023.03.014 [data acquisition, analysis, critical manuscript review]
37. Thompson EA, Ngecu W, Stoddart L, Johnston TS, Chang A, Cascino K, Alejo JL, Abedon AT, Samaha H, Roupheal N, Tobian AAR, Segev DL, Werbel WA, **Karaba AH**, Blankson JN, Cox AL. Heterologous versus homologous boosting regimens elicit qualitatively distinct, BA.5-cross reactive T cells in transplant recipients. *JCI Insight*. 2023;8(10):e170891. doi:10.1172/jci.insight.170891 [data acquisition, analysis, critical manuscript review]
38. Abedon AT, Chiang TPY, **Karaba AH**, Alejo JL, Chahoud M, Hussey C, Lopes JF, Hussain S, Larsen CP, Durand CM, Heeger PS, Segev DL, Clarke WA, Werbel WA. Letter to the editor: “hook” (prozone) effect in SARS-CoV-2 anti-spike binding antibody levels following vaccination, infection, or monoclonal antibody in solid organ transplant recipients. *Clin Transplant*. 2023;37(8):e15044. doi:10.1111/ctr.15044 [data acquisition, analysis, critical manuscript review]
39. Andargie TE, Roznik K, Redekar N, Hill T, Zhou W, Apalara Z, Kong H, Gordon O, Meda R, Park W, Johnston TS, Wang Y, Brady S, Ji H, Yanovski JA, Jang MK, Lee CM, **Karaba AH**, Cox AL, Agbor-Enoh S. Cell-free DNA reveals

distinct pathology of multisystem inflammatory syndrome in children. *J Clin Invest.* 2023;133(21):e171729. doi:10.1172/JCI171729 [data acquisition, analysis, critical manuscript review]

40. **Karaba AH**, Morgenlander WR, Johnston TS, Hage C, Pekosz A, Durand CM, Segev DL, Robien MA, Heeger PS, Larsen CP, Blankson JN, Werbel WA, Larman HB, Tobian AAR. Epitope Mapping of SARS-CoV-2 Spike Antibodies in Vaccinated Kidney Transplant Recipients Reveals Poor Spike Coverage Compared to Healthy Controls. *J Infect Dis.* 2023;228(12):2075–2085. doi:10.1093/infdis/jiad534

41. Roznik K, Andargie TE, Johnston TS, Gordon O, Wang Y, Akindele NP, Persaud D, Antar AAR, Manabe YC, Zhou W, Ji H, Agbor-Enoh S, **Karaba AH**, Thompson EA, Cox AL. Emergency Myelopoiesis Distinguishes Multisystem Inflammatory Syndrome in Children From Pediatric Severe Coronavirus Disease 2019. *J Infect Dis.* 2024;229(3):241–250. doi:10.1093/infdis/jiae032 [data acquisition, analysis, critical manuscript review]

42. Alejo JL, Chang TP, Frey S, Nair GA, Abedon AT, Nauroz Z, **Karaba AH**, Avery RK, Tobian AAR, Clarke WA, Garonzik-Wang JM, Segev DL, Massie AB, Werbel WA. Letter to the editor: Poor sensitivity of anti-nucleocapsid antibody in detecting prior COVID-19 in vaccinated solid organ transplant recipients. *Clin Transplant.* 2024;38(1):e15233. doi:10.1111/ctr.15233 [data acquisition, analysis, critical manuscript review]

43. Roznik K, Xue J, Stavakis G, Johnston TS, Kalluri D, Ohsie R, Qin CX, McAteer J, Segev DL, Mogul D, Werbel WA, **Karaba AH**, Thompson EA, Cox AL. COVID-19 vaccination induces distinct T-cell responses in pediatric solid organ transplant recipients and immunocompetent children. *npj Vaccines.* 2024;9(1):73. doi:10.1038/s41541-024-00866-4 [data acquisition, analysis, critical manuscript review]

44. **Karaba AH**, Swank Z, Hussain S, Chahoud M, Durand CM, Segev DL, Robien MA, Heeger PS, Larsen CP, Tobian AAR, Walt DR, Werbel WA. Detectable Plasma SARS-CoV-2 Spike Antigen is Associated with Poor Antibody Response following Third mRNA Vaccination in Kidney Transplant Recipients. *Transpl Infect Dis.* 2024;26(1):e14281. doi:10.1111/tid.14281

45. Johnston TS, Hage C, Abedon AT, Panda S, Alejo JL, Eby Y, Segev DL, Tobian AAR, Cox AL, Werbel WA, **Karaba AH**. Rapid Wane and Recovery of XBB Sublineage Neutralization After Sequential Omicron-based Vaccination in Solid Organ Transplant Recipients. *Clin Infect Dis.* 2024;78(5):835–845. doi:10.1093/cid/ciae279

46. Hsieh LL, Looney M, Figueroa A, Massaccesi G, Stavakis G, Anaya EU, D'Alessio FR, Ordonez AA, Pekosz AS, DeFilippis VR, Karakousis PC, **Karaba AH***, Cox AL*. Bystander monocytic cells drive infection-independent NLRP3 inflammasome response to SARS-CoV-2. *mBio.* 2024;15(1):e00810–24. doi:10.1128/mbio.00810-24

47. Prakash K, Saharia KK, **Karaba AH**, Law N, Albarillo FS, Zangeneh TT, Grossi P, Miller R, Slavin M, Shoham S, Ison M, La Hoz RM, Baddley JW. Minimizing risk while maximizing opportunity: The infectious disease organ offer process survey. *Transpl Infect Dis.* 2024;26(3):e14342. doi:10.1111/tid.14342 [data acquisition, analysis, original manuscript draft, critical manuscript review]

48. Donowitz M, Tse CM, Sarker R, Lin R, Dokladny K, Rawat M, Horwitz I, Ye C, McNamara G, In J, Kell A, Guo C, Jui Tsai S, Vong T, **Karaba AH**, Singh V, Sachithanandhan J, Pekosz A, Cox A, Bradfute S, Zachos NC, Gould S, Kovbasnjuk O. COVID-19 diarrhea is inflammatory, caused by direct viral effects plus major role of virus-induced cytokines. *Cell Mol Gastroenterol Hepatol.* 2024;9(4):101383. doi:10.1016/j.jcmgh.2024.101383 [data acquisition, analysis, critical manuscript review]

49. **Karaba AH**, Xue J, Johnston TS, Traut CC, Dalrymple LS, Kossman RJ, Blankson JN, Parikh CR, Ray SC. Longitudinal Characterization of SARS-CoV-2 Immunity in Hemodialysis Patients Post Omicron. *KI Reports.* 2024;9(1):101334. doi:10.1016/j.ekir.2024.11.012

50. Dhakal S, Yin A, Escarra-Senmarti M, Demko ZO, Pisanic N, Johnston TS, Trejo-Zambrano MI, Kruczynski K, Lee JS, Hardick JP, Shea P, Shapiro JR, Park HS, Parish MA, Caputo C, Ganesan A, Mullapudi SK, Gould SJ, Betenbaugh MJ, Pekosz A, Heaney CD, Antar AAR, Manabe YC, Cox AL, **Karaba AH**, Andrade F, Zeger SL, Klein SL. Application of machine learning algorithms to identify serological predictors of COVID-19 severity and outcomes. *Commun Med (Lond).* 2024;4(1):249. doi:10.1038/s43856-024-00658-w [data acquisition, analysis, critical manuscript review]

51. **Karaba AH**, Hage C, Sengsok I, Balasubramanian P, Segev DL, Tobian AAR, Werbel WA. Antibody Response to Respiratory Syncytial Virus Vaccination in Immunocompromised Persons. *JAMA*. 2025;333(5):429. doi:10.1001/jama.2024.25395

52. Lee JM, Sachithanandham J, Lee JS, Shapiro JR, Li M, Sitaris I, Peralta SR, Wouters C, Cox AL, Segev DL, Durand CM, Robien M, Tobian AAR, **Karaba AH**, Blankson JN, Werbel WA, Pekosz A, Klein SL. A third COVID-19 vaccine dose in kidney transplant recipients induces antibody response to vaccine and Omicron variants but shows limited Ig subclass switching. *Microbiol Spectr*. 2025;11(2):e02190–24. doi:10.1128/spectrum.02190-24 [data acquisition, analysis, critical manuscript review]

53. Hsieh LL, Thompson EA, Jairam NP, Roznik K, Figueroa A, Aytenfisu T, Zhou W, Gour N, Chao K-H, Milstone AM, Egbert E, D'Alessio F, Karakousis PC, Ordoñez A, Scully EP, Pekosz A, **Karaba AH**, Cox AL. SARS-CoV-2 induces neutrophil degranulation and differentiation into myeloid-derived suppressor cells associated with severe COVID. *Sci Transl Med*. 2025;17:eadm7527. doi:10.1126/scitranslmed.adn7527 [study design, supervision, data acquisition, analysis, critical manuscript review]

Review Articles [RA]

1. Cihakova D, Streiff MB, Menez SP, Chen TK, Gilotra NA, Michos ED, Marr KA, **Karaba AH**, Robinson ML, Blair PW, Dioverti MV, Post WS, Cox AL, R Antar AA. High-value laboratory testing for hospitalized COVID-19 patients: a review. *Future Virol*. 2021;16(10):691-705. doi:[10.2217/fvl-2020-0316](https://doi.org/10.2217/fvl-2020-0316)

2. Kumar A, Stavarakis G, **Karaba AH**. Herpesviruses and Inflammasomes: One Sensor Does Not Fit All. *mbio*. 2022;13:e01737-21. doi:[10.1128/mbio.01737-21](https://doi.org/10.1128/mbio.01737-21)

Case Reports [CR]

1. Czech MM, Dioverti MV, **Karaba AH**, Jain T, Talluru SM, Sunshine JC, Kang J, Parrish N, Kates OS. Disseminated Tuberculosis With an Atypical Cutaneous Manifestation in a Hematopoietic Cell Transplant Patient in the Early Posttransplant Period: Case Report and Review of the Literature. *Open Forum Infect Dis*. 2022;9(12):ofac643. doi:[10.1093/ofid/ofac643](https://doi.org/10.1093/ofid/ofac643)

2. Shoham S, Thapaliya S, Avery R, Baddley J, Dioverti V, Durand C, Gurakar A, **Karaba AH**, Kates O, Maragakis N, Permpalung N, Werbel W, Casadevall A. Multiple dimensions of neurological injury in a liver transplant recipient with cryptococcal meningitis. *ASM Case Rep*. 2025;1(1):e00040-24. doi:[10.1128/asmc.00040-24](https://doi.org/10.1128/asmc.00040-24)

Book Chapters, Monographs [BC]

1. **Karaba, AH** Clinical Fellowship and Postdoctoral Training. In: Eisenberg, M.J., Cox, A.L., eds. The Essential MD-PhD Guide. McGraw Hill, 2021; chapter 25.

2. Zhou, T.W., **Karaba, AH** Choosing the Right Residency, Applying, and Interviewing. In: Eisenberg, M.J., Cox, A.L., eds. The Essential MD-PhD Guide. McGraw Hill, 2021; chapter 22.

Books, Textbooks [BK]

Editorials [ED]

1. Queen J, Karaba S, Albin J, **Karaba A**, Howard-Anderson J, Skinner N, Herman JD, Paras ML, Melia MT. The Time is Now: A Call for Renewed Support of Infectious Disease Physician-Scientist Trainees in the COVID-19 Era. *Infect Dis*. 2021;224(9):1452-1454. doi:[10.1093/infdis/jiab162](https://doi.org/10.1093/infdis/jiab162)

2. Durand CM, Prizzi M, Sung H, Kates OS, Tobian AAR, **Karaba AH**, Werbel WA, Baddley JW, Permpalung N, King E, Warren D, Ostrander D, Brown D. Building a successful transplant research center: Blueprints and barriers. *Transpl Infect Dis*. 2024:e14373. doi:10.1111/tid.14373

3. Avery RK, Kates OS, Saharia KK, Lindner BK, Baddley JW, **Karaba AH**. Optimizing IVIg in Xenotransplantation: A Call to Action. *Transplantation*. Published online April 1, 2025. doi:10.1097/TP.0000000000005402

Guidelines/Protocols, Consensus Statement, Expert Opinion, Consortium Articles [GL]

1. Panel on Guidelines for the Prevention and Treatment of Opportunistic Infections in Adults and Adolescents with HIV. Guidelines for the Prevention and Treatment of Opportunistic Infections in Adults and Adolescents with HIV. National Institutes of Health, Centers for Disease Control and Prevention, HIV Medicine Association, and Infectious Diseases Society of America. 2025. Available at <https://clinicalinfo.hiv.gov/en/guidelines/adult-and-adolescent-opportunistic-infection>.

Letters, Correspondence [LT]

1. **Karaba AH**, Segev DL, Werbel WA. Respiratory Syncytial Virus Vaccination – Reply. *JAMA*. Published online May 07, 2025. doi:10.1001/jama.2025.2141

Other Publications:

Media Releases or Interviews [MR]

1. Parshley L. How long does the coronavirus last inside the body? *National Geographic*. Published online June 3, 2020. <https://www.nationalgeographic.com/science/article/how-long-does-coronavirus-last-inside-the-body-cvd>

2. Rodricks D. Neglecting those most vulnerable to COVID-19 renders us all vulnerable. *Baltimore Sun*. <https://www.baltimoresun.com/opinion/columnists/dan-rodricks/bs-ed-rodricks-1222-vulnerable-americans-covid-variants-20211221-2af26rjkqbacff6a5ppmjok2xa-story.html>. Published December 21, 2021.

3. Lee J. Pandemic Year 3: Infectious Disease Experts Weigh In, *Snopes.com*. <https://www.snopes.com/news/2022/02/02/experts-on-pandemic-year-3/>. Published February 2, 2022.

4. Ho P-C. Smarter: Would You Get Sick From Not Wearing Enough Clothes? *Consumer Reports*. <https://www.consumerreports.org/health/common-cold/smarter-would-you-get-sick-from-not-wearing-enough-clothes-a9227821912/>. Published December 21, 2022.

5. Colangelo LL. COVID-19 Cases, Hospitalizations Rising on Long Island. *Newsday*. <https://www.newsday.com/news/health/coronavirus/covid-increase-p238nkk1#>. Published July 3, 2024

FUNDING

EXTRAMURAL Funding

Research Extramural Funding

Current

- | | |
|---------------|--|
| 6/2021-4/2026 | Modulation of Herpes Simplex Virus Pathogenesis by Leucine Rich Repeat Kinase 2
K08 AI156021
NIAID
Direct Costs: \$184,000
Role: PI, 75% effort |
| 5/2023-4/2028 | Kidney Transplantation from Donors with HIV: Impact on Rejection and Long-term Outcomes
U01AI177211
NIAID
Direct Costs: \$1,072,382
PI: Christine Durand
Role: Co-I, 2% effort |
| 6/2025-5/2030 | Effects of Vaccination on Acute and Post-Acute Respiratory Viral Infection Outcomes in Solid Organ Transplant Recipients
R01AI190359
NIAID
Direct Costs: \$936,225
PI: William Werbel
Role: Co-I, 5% effort |
| 8/2025-7/2030 | The Impact of Systemic Immunosuppression on RSV Antibody Generation and Effector Functions After Vaccination
R01AI190195 |

NIAID
Direct Costs: \$499,999
Role: PI, 40% effort

Pending

4/2026-3/2028 Defining Novel Caspase-1-Dependent Pathways in HSV-1 Neuroinvasion and Immunopathology
R21 000000-00
NIAID
Direct Costs: \$125,000
Role: PI, 20% effort

Prior

9/2020-8/2025 Johns Hopkins Excellence in Pathogenesis and Immunity Center for SARS-CoV-2 (JH-EPICS)
U54 CA260492-01
NCI
Direct Costs: \$4,067,207
PI: Sabra Klein and Andrea Cox
Role: Co-I, 5% effort

9/2021-3/2023 COVID Protection After Transplant (CPAT) Multicenter Adaptive Trial
U01 AI138897-04S1
NIAID
Direct Costs: \$4,536,103
PI: Christine Durand
Role: Co-I, 10% effort

Educational Extramural Funding

Previous

7/2018-6/2020 Research Training in Microbial Diseases
T32 AI007291-28
NIAID
Direct Costs: \$359,982
PI: Sara Cosgrove
Role: Trainee

Clinical Extramural Funding NA

System Innovation or Quality Improvement Extramural Funding NA

Other Extramural Funding NA

INTRAMURAL Funding

Research Intramural Funding

Current

4/2025-3/2026 Assessing Immunity against Highly Pathogenic Avian Influenza in Immunocompromised Persons
Fisher Center Discovery Award
Johns Hopkins University
Direct Costs: \$59,843.40
Role: Co-PI, 2% effort

6/2025-5/2026 The Impact of Immunosuppression on RSV Antibody Generation and Function After Vaccination
The Willowcroft Foundation
Direct Costs: \$50,000
Role: PI, 5% effort

Pending

Previous

2019 Physician Scientist Training Program Microgrant
Johns Hopkins University

Direct Costs: \$5,000

Role: PI

1/2021-6/2021 JHU SOM Institute for Clinical and Translational Research Clinician Scientist Award

Johns Hopkins University

Direct Costs: \$80,000

Role: PI

Educational Intramural Funding NA

Clinical Intramural Funding NA

System Innovation or Quality Improvement Intramural Funding NA

Other Intramural Funding NA

CLINICAL ACTIVITIES

Clinical Focus

My clinical practice focuses on preventing, diagnosing, and treating infectious diseases in patients who are immunosuppressed due to chemotherapy, bone marrow transplantation, or solid organ transplantation. I attend on the Transplant and Oncology Infectious Diseases consult service 6 weeks and 4 weekends per year.

Certification

Medical, other state/government licensure

8/2018-present Maryland, D86045

Boards, other specialty certification

8/2018-present American Board of Internal Medicine, 388709

12/2020-present Infectious Diseases, 388709

Clinical (Service) Responsibilities

2/2021-10/2021 Attending Physician, Transplant/Oncology Infectious Diseases Clinic, 1 day/month

2/2021-present Attending Physician, Transplant/Oncology Infectious Diseases Service, 6 weeks/year

2/2024-present Needle Stick Physician, Cover the needle stick (5-STIX) pager for health system 1 week/month

Clinical Productivity

2021-2025 My target clinical effort assignment is 20%.
FY22 RVU: 722 (before GPCI, 103% of target)
FY23 RVU: 829 (before GPCI, 104% of target)
FY24 RVU: 1000 (before GPCI, 125% of target)
FY25 RVU: 1175 (before GPCI, 132% of target)

Clinical Draw from outside local/regional area NA

Clinical Program Building / Leadership NA

Clinical Demonstration Activities to external audience, on or off campus NA

Development of nationally/internationally recognized clinical standard of care NA

EDUCATIONAL ACTIVITIES

Educational Focus

My clinical education focus is approach and management of viral infections in immunocompromised hosts. I target the material to the level of learner focusing first on recognizing the presentations of common viral infections and then moving onto management and emerging therapies. My scientific education focus is on innate immune responses to viral infections with the goal of learners grasping a basic framework of how to approach their specific inquiries in that area.

Teaching and Facilitating Learning

Classroom instruction

JHMI/Regional

2020, 2024	Lecturer, Medical Residents, Approach to Gram Positive Bacteremia, Osler Medical Residency
2021-2022	Lecturer, Medical Residents, Infectious diseases in Immunosuppressed Patients, MedStar residency
2022-2023	Faculty Discussant, Medical Students, Genes to Society, Management of COVID-19, JHU SOM
2022-present	Lecturer, Graduate Students, Innate Immunology, Graduate Immunology (ME:250.719), JHU SOM
2023	Faculty Discussant, Medical Students, Clinical Cases Session, JHU SOM
2023-2024	Lecturer, Medical Residents, Viral Infections in Immunocompromised Hosts, Osler Medical Residency

Clinical instruction

JHMI/Regional

2019-2024	Clinical skills instruction for 2nd year medical students; Transition to Wards, 2 weeks/year, JHU
2021-present	Clinical instruction of infectious diseases fellows; Transplant and oncology infectious diseases consult service. 10 weeks/year, JHU
2022-present	Faculty Discussant for Osler Medical Residency Firm Grand Rounds
2023-present	Thayer Firm Faculty, Selected (10% of faculty are selected) to be core clinical and educational faculty for the Thayer Firm of the Osler Residency Program. Provide didactics, mentorship, and clinical advice to the firm.

CME instruction

JHMI/Regional

7/25/2017	"VZV Encephalitis in a Dialysis Patient" Infectious Diseases Grand Rounds, JHU
11/6/2017	"Disseminated Histoplasmosis in a Returning Traveler" Infectious Diseases Grand Rounds, JHU
12/11/2017	"Listeria Meningitis in a Multiple Myeloma Patient" Infectious Diseases Grand Rounds, JHU
3/5/2018	"Stomach Cancer Presenting as a Liver Abscess" Infectious Diseases Grand Rounds, JHU
3/13/2018	"Mondor's Disease in a Lactating Woman" Infectious Diseases Grand Rounds, JHU
7/10/2018	"Pneumococcal Meningitis in a Woman on Steroids" Infectious Diseases Grand Rounds, JHU
7/24/2018	"Disseminated Kaposi's Sarcoma" Infectious Diseases Grand Rounds, JHU
5/16/2019	"A Case of Disseminated Histoplasmosis" Infectious Diseases Update for Primary Care and Hospital Medicine, JHU
5/14/2024	"Legionnaire's Disease in a Patient with Lung Cancer" Infectious Diseases Grand Rounds, JHU

National

6/1/2023	"Applying Evidence-Based Strategies to Prevent CMV Disease in Solid Organ Transplant Recipients", PRIME Education, Inc.
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Workshops/Seminars NA

Mentoring

Pre-doctoral Advisees/Mentees

9/2018-8/2020	Alexis Figueroa, B.S., JHU MSTP student, co-author on OR publications 13, 14, 46, and 53.
6/2021-8/2021	Ayush Kumar, D.V.M., Practicing Veterinarian, co-author on RA publication 2.
9/2022-6/2023	Tihitina Aytenfisu B.S., JHU MSTP student, co-author on OR publications 13, 19, 20, 22, 27, 28, 29, 30, 37, 46, and 53
7/2022-7/2023	T. Scott Johnston, B.S., dental student at the University of Maryland. co-author on OR publications 13, 22, 23, 24, 27, 28, 33, 36, 37, 38, 39, 40, 41, and 45
7/2021-10/2023	Leon L. Hsieh, B.S., post-doctoral fellow at New York University, co-author on OR publications 13, 46, and 53
9/2023-present	Nirvani P. Jairam, B.S., PhD candidate at JHU, co-author on OR publication 53
7/2024-present	Prasanthi Balasubramanian, M.S., Research Technologists at JHU, co-author on OR publication 51

Post-doctoral Advisees/Mentees NA

Thesis Committees

2023-present	Willow Rock, Biochemistry, Cellular and Molecular Biology (BCMB), committee member
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2024-present Ramona Johnson, Immunology, committee member

Mentoring, coaching and advising programs NA

Assessment and Evaluation NA

Program Building and Curriculum Development NA

Educational Leadership NA

Educational Demonstration Activities to external audiences, on or off campus NA

RESEARCH ACTIVITIES

Research Focus

My research focuses broadly on understanding interactions between viruses and the immune system. This has included basic research into the mechanisms of inflammasome activation (a critical component of the innate immune system) by HSV-1 and SARS-CoV-2, inflammatory cytokines as markers of specific disease phenotypes in CMV and SARS-CoV-2, and the humoral response to SARS-CoV-2 and RSV in special populations including solid organ transplant recipients and people living with HIV.

Research Program Building/Leadership

2005-2007 Undergraduate Research, Department of Chemistry, Northwestern University, Evanston, IL
Advisor: Fred Lewis, PhD
Thesis: “Structural and Thermodynamic Properties of DNA”

2009-2013 Ph.D. Student, Dept. of Microbiology-Immunology, Northwestern University, Chicago, IL
Advisor: Richard Longnecker, PhD
Thesis: “The Role of Herpesvirus Entry Mediator and Nectin-1 in Ocular Herpes Simplex Virus Infections”

2018-2020 Infectious Diseases Fellow, Dept. of Medicine, Div. of Infectious Diseases, JHU
Advisor: Andrea Cox, MD, PhD
Inflammasome Regulation in Viral Infections

2021-present Assistant Professor, Dept. of Medicine, Div. of Infectious Diseases, JHU
Mentor: Andrea Cox, MD, PhD
Immune Responses to Viral Infections in Immunocompromised Hosts

2022-present Associate Director for Basic/Translational Research, TRC, JHU

Research Demonstration Activities NA

Inventions, Patents, Copyrights NA

Technology Transfer Activities NA

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

System Innovation and Quality Improvement efforts within JHMI:

2017 Leader, WNV testing Diagnostics QI project at JHMI, OR Publication 9

2020-2023 Faculty Editor for Chapter on Antibiotics for the Osler Residency Survival Guide

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

2015-2017 Member of the Feedback Committee for the Osler Medical Residency

2018-2019 Co-Founder and Vice-chair of Communications of The Clinical Fellows Council

2019-2020 Vice-chair of Finance of The Clinical Fellows Council

2020-2021	Co-writer/COVID-19 Inflammatory Markers Working Group
2020-present	Contributor/COVID-19 Treatment Guidance Working Group
2022-present	Member/Intern Selection Committee, Osler Medical Training Program
2023	Member, Infectious Diseases Pharmacist Interview Committee
2023	Letermovir Formulary Faculty Sponsor
2024-present	Member, Infectious Diseases Alumni Outreach Committee

Editorial Activities

Editorial Board appointments NA

Journal peer review activities

2020	<i>Journal of Clinical Investigation</i>
2020	<i>Immunological Research</i>
2021	<i>PLoS Pathogens</i>
2021	<i>American Journal of Transplantation</i>
2021	<i>Transplantation</i>
2022	<i>eLife</i>
2022	<i>Annals of Medicine</i>
2022	<i>Open Forum Infectious Diseases</i>
2022	<i>Antimicrobial Agents and Chemotherapy</i>
2022	<i>Nature Communications</i>
2022	<i>Frontiers in Microbiology</i>
2022	<i>Frontiers in Medicine</i>
2022	<i>Clinical Infectious Diseases</i>
2022	<i>The Journal of Infectious Diseases</i>
2023	<i>British Journal of Clinical Pharmacology</i>
2023	<i>Science Translational Medicine</i>
2023	<i>Frontiers in Immunology</i>
2025	<i>Lancet Infectious Diseases</i>
2025	<i>JAMA</i>

Other peer review activities NA

Advisory Committees, Review Groups/Study Sections

2024-present	Member, Herpes Simplex Virus/Varicella-Zoster Virus Section Group of the Panel for the Guidelines for the Prevention and Treatment of Opportunistic Infections in Adults and Adolescents with HIV
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Professional Societies

2018-present	Infectious Diseases Society of America (IDSA)
	2023 - present IDWeek Abstract reviewer
	2025 – present Member, Immunocompromised Host Community of Practice
2018-present	American Society for Transplantation (AST)
	2018-present Member (AST)
	2021-present Member, Committee on Resistant Pathogens (AST ID-COP)
2021-present	The Transplantation Society (TTS)
	2021-present Member, Transplant Infectious Diseases (TID)
	2024-present Member, Research Subcommittee (TTS-TID)
2021-2022	American Society for Microbiology (ASM)
2022-present	International Immunocompromised Host Society

Conference Organizer

JHMI/Regional NA

National NA

International

4/2023 TID Meeting, Australia

9/2024 International Congress of TTS, Istanbul, Turkey

Session Chair
JHMI/Regional None

National

10/22/2022 Session co-chair, "Neglected herpesvirus infections", IDSA, IDWeek, Washington D.C.
10/20/2025 Moderator, "Stopping the Inevitable? Wholistic approaches to post-COVID-19 prevention of viral infections in transplant patients", IDSA, IDWeek, Atlanta, GA

International

8/3/2025 Moderator, "Stopping the Inevitable? Approaches to Respiratory Viruses", TTS/ASTS/AST, World Transplant Congress, San Francisco, CA

Consultantships

2021 Roche Diagnostics, consultant on SARS-CoV-2 diagnostics in special populations
2023-present Hologic Inc., consultant on viral assays
2025-present GSK, consultant on RSV vaccines in immunocompromised populations

RECOGNITION

Awards, Honors

2007 Phi Beta Kappa
2014 Alpha Omega Alpha
2014 Phi Rho Sigma Dennis Award for outstanding achievement in required 3rd year clerkships, FSM
2015 Summa Cum Laude and Magna Cum Laude in Scientia Experimentalis from, FSM
2015 Department of Medicine Chairman's Award, FSM
2015 John P. Phair Award for excellence in the infectious disease clerkship, FSM
2018 Distinguished Teaching Society Member, JHU
2019 IDWeek Trainee Travel Grant
2020 AST-ID-COP Travel Grant for American Transplant Congress
2020 IDWeek Trainee Travel Grant
2024 Best Poster, Awarded by the Pediatric Community of Practice at the American Transplant Congress
2025 Sigma Xi, Scientific Research Honor Society

Invited Talks

JHMI

6/5/2018 "The Role of Herpesvirus Entry Mediator and Nectin-1 in Ocular Herpes Simplex Virus Infections," Viral Oncology Group, JHU
4/22/2019 "Disseminated Histoplasmosis in a Returning Traveler", Baltimore "Pus Club" Meeting, University of Maryland
4/21/2020 "IL-6 in COVID-19: A Laboratory Perspective", Grand Rounds, Division of Infectious Diseases, JHU
7/28/2022 "CMV in Solid Organ Transplant Recipients", Herlong Rounds, MSTP, JHU
9/27/2022 "COVID: Is the Worst Behind Us or In Front of Us?" Center for Innovative Medicine Seminar, JHU
11/11/2022 "SARS-CoV-2 Vaccines in Solid Organ Transplant Recipients: In Search of the Perfect Boost" Dept. of Molecular & Comparative Pathobiology Seminar, JHU
1/20/2023 "SARS-CoV-2 Vaccines in Solid Organ Transplant Recipients: Chasing a Moving Target" Department of Medicine Grand Rounds, JHU
5/12/2023 "SARS-CoV-2 Vaccine Responses Among Solid Organ Transplant Recipients: Is There a Perfect Boost?" Division of Allergy Immunology Seminar Series, JHU
5/1/2024 "Longitudinal Characterization of SARS-CoV-2 Immune Responses in People receiving Hemodialysis During the Omicron Era" Renal Disease Interest Group, JHU
10/29/2024 "RSV Vaccine Responses in Immunocompromised Individuals" Center for AIDS Research, JHU
6/6/2025 "What's New in Herpesviruses?", Frontiers in Clinical Infectious Diseases, JHU

National

6/28/2021 "SARS-CoV-2 Vaccine Safety and Immunogenicity in Solid Organ Transplant Recipients", Clinical and Translational Serology Task Force Round Table, NIH

- 2/22/2022 “Inflammasome Activation in Viral Infection: Friend or Foe?”, Infectious Diseases Grand Rounds, The University of Arizona, Tucson, AZ
- 11/3/2022 “Vaccine Effectiveness in Transplant Recipients”, Kidney Week, American Society of Nephrology, Orlando, FL
- 6/4/2024 “Heterogenous Respiratory Syncytial Virus Vaccine Immunogenicity in Solid Organ Transplant Recipients” American Transplant Congress, AST, Philadelphia, PA – Plenary Session
- 10/17/2024 “Attenuated Prefusion F Antibody Response to RSV Vaccines in Solid Organ Transplant Recipients”, IDWeek, IDSA, Los Angeles, CA
- 11/13/2024 “Best ID Papers for TOID”, Mid-Atlantic Transplant Infectious Disease Society, Virginia Commonwealth University, Richmond, VA
- 4/9/2025 “Rapid study of novel RSV vaccine safety and immunogenicity in immunocompromised populations” Advisory Committee on Immunization Practices (ACIP) Work Group on RSV Vaccines, Centers for Disease Control and Prevention (CDC), Atlanta, GA

International

- 11/11/2022 “SARS-CoV-2 Vaccines in Solid Organ Transplant Recipients: In Search of the Perfect Boost”, National Centre for Infections in Cancer, Melbourne, Australia
- 9/21/2024 “The Best Papers Applicable to Transplant Infectious Diseases” The International Congress of The Transplantation Society, Istanbul, Turkey
- 9/24/2024 “What’s New in Vaccines?” The International Congress of The Transplantation Society, Istanbul, Turkey

Visiting Professorships NA

OTHER PROFESSIONAL ACCOMPLISHMENTS

Oral/Podium Presentations

- 2011 “HVEM and Nectin-1 Mediate Infection of the Murine Cornea” International Herpesvirus Workshop. Gdansk, Poland.
- 2012 “HSV-1 and HSV-2 Have Different Receptor Requirements for Infection of the Murine Cornea” International Herpesvirus Workshop, Calgary, Canada.
- 2022 “Pre-Vaccine Antibodies Against Seasonal Coronaviruses are Associated with Decreased Antibody Response to Two-Dose SARS- CoV-2 mRNA Vaccination in Solid Organ Transplant Recipients” SeroNet National Investigator’s Meeting, Bethesda, MD
- 2022 “B Cells Fit for Germinal Center Activity Predict Response to a Third Dose of SARS-CoV-2 Vaccine in Solid Organ Transplant Recipients” American Transplant Congress, Boston, MA
- 2023 “Bivalent SARS-CoV-2 mRNA Booster Vaccines in Transplant Recipients Improve Neutralization of Omicron Sublineages” American Transplant Congress, San Diego, CA
- 2023 “Detectable Spike Antigen Following Third mRNA SARS-CoV-2 Vaccination Is Not Associated With Antibody Development In Kidney Transplant Recipients” American Transplant Congress, San Diego, CA