

Angelle Desirée LaBeaud, M.D., M.S.

PERSONAL DATA

Work Address: Stanford University
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PRESENT POSITION

10/2014 – present Associate Professor, Stanford University Department of Pediatrics, Division of Infectious Diseases
12/2016 – present Associate Professor, Stanford University Department of Health Research and Policy (Epidemiology) (by courtesy)

EDUCATION

9/1992 – 6/1996 B.S., *Cum Laude*, General Biology; University of California at San Diego; La Jolla, California
8/1996 – 5/2000 M.D., *AOA*, Medical College of Wisconsin; Milwaukee, Wisconsin
6/2006 – 5/2009 M.S., Clinical Research, Case Western Reserve University; Cleveland, Ohio

POSTGRADUATE TRAINING

7/2000 – 6/2001 Pediatric Internship, International Health Track; Rainbow Babies & Children's Hospital, Cleveland, Ohio
7/2001 – 6/2003 Pediatric Residency, International Health Track; Rainbow Babies & Children's Hospital, Cleveland, Ohio
7/2003 – 6/2006 Pediatric Infectious Disease Fellowship; Rainbow Babies & Children's Hospital, Cleveland, Ohio
7/2006 – 6/2009 KL2 Scholar; National Institutes of Health, National Center for Research Resources, Multidisciplinary

Clinical Research Career Development Program; Case Western Reserve University, Cleveland, Ohio

PREVIOUS POSITIONS

- 7/2006 – 6/2007 **Instructor**, Primary Appointment, Department of Pediatrics, Division of Pediatric Infectious Diseases, Case Western Reserve University
- 7/2006 – 6/2007 **Instructor**, Secondary Appointment, Center for Global Health and Diseases, Case Western Reserve University
- 7/2007 – 6/2009 **Assistant Professor**, Primary Appointment, Department of Pediatrics, Division of Pediatric Infectious Diseases, Case Western Reserve University
- 7/2007 – 6/2009 **Assistant Professor**, Secondary Appointment, Center for Global Health and Diseases, Case Western Reserve University
- 10/2009 – present **Adjunct Assistant Professor**, Center for Global Health and Diseases, Case Western Reserve University
- 10/2009 – 1/2014 **Assistant Scientist**, Children’s Hospital Oakland Research Institute
- 10/2009- 10/2014 **Associate Physician**, Pediatric Infectious Diseases, Children’s Hospital and Research Center Oakland
- 1/2014 – 10/2014 **Associate Scientist**, Children’s Hospital Oakland Research Institute

HOSPITAL APPOINTMENTS

- 2007 – 2008 **Director**, Pediatric Travel Clinic, Case Western Reserve University
- 2010 – 2012 **Co-Director**, Pediatric Infectious Diseases Fellowship Program, Children’s Hospital Oakland
- 2013 – 2014 **Director**, Pediatric Infectious Diseases Fellowship Program, Children’s Hospital Oakland
- 2014 – present **Co-chair**, Stanford Integrated Program

ADMINISTRATIVE APPOINTMENTS

- 2015 – present Affiliated Faculty Member, Stanford Institute for Immunity, Transplantation, and Infection
- 2015 – present Affiliated Faculty Member, Stanford Woods Institute for the Environment

- 2015 – present Affiliated Faculty Member, Emmett Interdisciplinary Program in Environment & Resources
- 2017 – present Faculty Fellow, Center for Innovation in Global Health
- 2017 – 2018 Research Fellow, Windward Islands Research and Education Foundation (WINDREF), True Blue Campus, St. George’s, Grenada
- 2018 – present Scholarly Concentration Co-Leader and Clinical Partner for the Pediatrics Global Health Scholarly Concentration
- 2018 – present Senior Research Fellow, Windward Islands Research and Education Foundation (WINDREF), True Blue Campus, St. George’s, Grenada

LICENSURE

- 2009 – present Medical License, State Medical Board of California
- 2000 – 2010 Medical License, State Medical Board of Ohio

CERTIFICATIONS

- 2007 – present Pediatric Infectious Diseases Subspecialty Board; recertified 2017
- 2003 – present American Board of Pediatrics; Recertified 2013
- 2000 – present Pediatric Advanced Life Support
- 2000 – present Neonatal Resuscitation Program Provider

HONORS/AWARDS

- 1999 Alpha Omega Alpha Honor Society
- 2000 Merck Award in recognition of outstanding academic achievement
- 2000 American Medical Woman’s Association Award
- 2004 – 2012 NIH Clinical Research, Loan Repayment Awards (LRP)
- 2008 Case Western Reserve University Women Faculty of the School of Medicine Junior Faculty Award
- 2008 Robert E. Shope International Fellowship in Infectious Diseases Award
- 2010 New Investigator in Global Health Scholarship, Global Health Council
- 2015 – 2020 Bechtel Faculty Scholar Award, Stanford Child Health Research Institute

- 2018 Women in Science Award, International Society for Antiviral Research (ISAR)
- 2018 Stanford Department of Pediatrics Postdoc Mentor of Excellence Award
- 2018 Competitive selection into the Stanford Leadership Development Program FY19

EDITORIAL RESPONSIBILITIES

- 2006 – 2008 **Associate Editor**, PLoS Neglected Tropical Diseases Journal
- 2008 – present **Deputy Editor**, PLoS Neglected Tropical Diseases Journal
- 2006 – present **Reviewer**, Lancet Global Health, Clinical Infectious Diseases, Journal of Infectious Diseases, PLoS Neglected Tropical Diseases Journal, PLoS ONE, British Medical Journal, Archives of Virology, American Journal of Tropical Medicine & Hygiene, Journal of Visualized Experiments, Anti-Viral Research Journal, Virus Research Journal, Vaccine, Transactions of the Royal Society of Tropical Medicine and Hygiene, Global Health Action
- 2017 – present **Editorial Advisory Board Member**, American Journal of Tropical Medicine and Hygiene

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Committee on Arthropod-Borne Viruses
American Society for Tropical Medicine and Hygiene
Infectious Disease Society of America
Pediatric Infectious Diseases Society
American Academy of Pediatrics

GRANT REVIEW BOARDS

- 2008 NIH Study Section ZAI1 EWS-M (J1) 1: Infectious Diseases Transmission in the Developing World
- 2011, 2012 Deutsche Forschungsgemeinschaft (DFG) German Research Foundation, Joint German-African Cooperation Projects in Infectiology

2012	NIH Loan Repayment Program Special Emphasis Study Section
2012, 2013	Wellcome Trust Grant Reviewer, Sir Henry Wellcome Postdoctoral Fellowships
2013	NIH Study Section ZGM1 BBCB-5 (MI)1: Models of Infectious Disease Agent Study
2014	NIH Study Section ZAI-AWA-M-S1: NIAID International Collaborations in Infectious Diseases Research (ICIDR)
2015	Ad hoc member, NIH Study Section CRFS: Clinical Research and Field Studies
2015	NIH Study Section ZAI-BLG-M-S4, R24 peer reviewer
2016	NIH Study Section ZRG1 PSE-U 02 M IRAP and SSPA Member SEP
2016	NIH Study Section PAR 14-080 International Research in Infectious Diseases
2017	Special Emphasis Panel/Scientific Review Group ZRG1 PSE-U (02)
2017	Special Emphasis Panel/Scientific Review Group ZDE1 LC (19) 1
2017	Special Emphasis Panel/Scientific Review Group ZAI1 KP-M (J1) 1
2018	MRC reviewer, UK-Philippines Joint Health Research Call 2017 Cuevas MR/R025614/1
2018-present	Standing member, NIH Study Section CRFS: Clinical Research and Field Studies

COMMITTEE MEMBERSHIPS

2008 – 2017	Member, American Society of Tropical Medicine & Hygiene (ASTMH) CME/Courses Committee
2009	Member, American Academy of Pediatrics International Research Award Selection Committee
2009 – 2017	Member, ASTMH Travel Research Award Selection Committee
2009	Panelist, National Center for Foreign Animal and Zoonotic Disease Defense Advisory Group on Rift Valley Fever, Washington, DC
2010, 2012	Journal Editor Round Table Participant, National Science Advisory Board for Biosecurity (NSABB)

2011	Symposium Organizer/Chair, "Cultural Lessons Learned in Tropical Medicine: Pearls from the Pioneers", ASTMH Annual Meeting
2011 – 2016	Member, Ben Kean Travel Fellowship Award Committee, ASTMH
2012	Councilor , ASTMH
2012 – present	Member, Blue Ribbon Committee, ASTMH
2013 – present	Chair , CTropMedExam Working Group, ASTMH
2012 – present	Director , Pediatric Resident's Research Seminar Series, Children's Hospital of Oakland
2013 – present	Member, Dual Use Research of Concern Committee, PLoS Journals
2013	Invited PLoS representative, WHO Informal Consultation on Dual Use Research of Concern, Geneva, Switzerland
2013	Co-chair, Other Viruses Research Section Symposium, ASTMH Meeting, Washington, D.C.
2015 – present	Member, Pediatric Infectious Disease Fellowship Program Evaluation committee, Stanford University
2015 – 2016	Member, Adult Infectious Disease Search committee, Stanford University
2015 – present	Affiliated Faculty Member, Woods Institute for the Environment, Stanford University
2015 – present	Affiliated Faculty Member, Emmett Interdisciplinary Program in Environment & Resources, Stanford University
2015 – present	Co-chair , Integrative program committee, Stanford University
2015 – present	Member, Institution Biosafety committee, Stanford University
2015	Panelist, NIAID-WHO Gaps and Opportunities in Chikungunya Research: Expert Consultation on Chikungunya Disease in the Americas
2015 – present	Councilor , American Committee on Arthropod-Borne Viruses
2016 – present	Chair , Ben Kean Travel Fellowship Award Committee, ASTMH
2016 – 2017	Chair-elect , American Committee on Arthropod-Borne Viruses
2017 – present	Member, WHO ZIKV IPD Consortium, Geneva,

	Switzerland
2017 – 2018	Chair , American Committee on Arthropod-Borne Viruses
2018 – present	Expert member, GloPID-R Chikungunya working group
2018 – present	Core Member, Innovation and Integration of Ecosystem-Human Health Science and Tools on the Natural Capital Project Platform Working Group, Stanford Program for Disease Ecology, Health, and the Environment
2018 – 2019	Invited learner, Stanford Leadership Development Program
2018 – present	Past-Chair , American Committee on Arthropod-Borne Viruses

PRESENT RESEARCH SUPPORT

7/2013 – 6/2024	NIH, R01 AI102918: Disentangling the human vector relationship to disrupt dengue and chikungunya virus outbreaks in Kenya; Role: PI (Just scored 6 th percentile on renewal of this R01 slated to end in 2019)
7/2018 – 6/2019	Stanford CHRI Bridge Support: The Burden of Chikungunya and Dengue Transmission Infection and Disease in Kenya; Role: PI
9/2018 – 8/2019	Bova Network pump priming award, Trash to Treasure: Collecting trash for profit to reduce vector breeding sites in Kwale County, Kenya; Role: U.S. PI
7/2018 – 6/2023	NIH, K23AI127909; Modulation of the B cell response to dengue virus infection by <i>Plasmodium falciparum</i> co-infection; PI: David Vu; Role: Primary mentor, Co-I
4/2018 – 12/2018	USAID Maternal and Child Survival Program, Assessment of Cognitive Functioning in Children Exposed to the Zika Virus; Role: Co-investigator
9/2016 – 12/2018	NIH, R21TW010536; Neurodevelopment and Vector-borne Diseases: Building Research Capacity in the Tropics; Role:

Co-PI with R. Waechter

- 9/2016 – 12/2018 Institute for Immunity, Transplantation and Infection Seed Interdisciplinary Research Award: Characterizing the Effects of Antenatal Parasitic Infection on Fetal Immune System Development; Role: PI
- 7/2016 – 3/2019 Stanford Woods Institute Environmental Venture Project grant: Predicting Dengue Transmission in a Changing Climate to Improve Mosquito Control; Role: Co-PI with E. Mordecai
- 9/2015 – 8/2020 Bechtel Faculty Scholar Award, Stanford Child Health Research Institute: Integrated Vector Management as a Strategy for Reduced Disease Risk in a Newly Discovered Region of Dengue Fever in Africa; Awardee
- 7/2015 – 6/2020 NIH, U24AI118648: Miniaturized Automated Whole Blood Cellular Analysis System; Co-PI with H. Maecker

PAST RESEARCH SUPPORT

- 9/2017 – 8/2018 American Society of Tropical Medicine and Hygiene, Robert E. Shope International Fellowship in Infectious Diseases; Miniaturized Automated Whole Blood Cellular Analysis System to Assess Immunity to Arboviruses in Msambweni, Kenya; PI: A. Krystosik, Role: Mentor
- 1/2017 – 8/2018 Stanford Center for Innovation in Global Health Seed Grant; Complex Data and Deep Learning for Disease Outbreak Prediction; Role: Awardee/PI
- 1/2017 – 6/2018 Stanford Child Health Research Institute: The Spectrum of Zika Virus Disease in Grenada; Awardee/PI
- 1/2016 – 12/2017 Stanford Center for Innovation in Global Health Seed Grant; Predicting Dengue Transmission in a Changing Climate; Role: Awardee/co-PI with E. Mordecai

- 9/2015 – 8/2016 American Society of Tropical Medicine and Hygiene, Robert E. Shope International Fellowship in Infectious Diseases; Characterization of Immune Factors of Severe and Chronic Chikungunya Disease in Grenada, West Indies; PI: C. Heath, Role: Mentor
- 9/2012 – 8/2016 OPP1066865: Bill and Melinda Gates Foundation Healthy Growth Award: Enhancing Infant Immunity: Effect of Early Maternal Treatment for Parasitic Infections; Role: Co-investigator
- 3/2012 – 2/2014 NIH, Pacific Northwest Regional Center of Excellence in Biodefense and Emerging Pathogens New Research Project Award: The Burden of Chikungunya and Dengue Infection in Kenya; Role: Principal Investigator
- 4/2009 – 2/2014 NIH, U54AI057160, Midwest Regional Center of Excellence Program Project Award: Innate Immunity of Rift Valley Fever Virus; Role: Co-investigator
- 4/2010 – 4/2013 NIH, R03 HD058587; The effects of polyparasitism on vaccine response; Co-PI with I. Malhotra
- 1/2011 – 6/2013 Department of Homeland Security: Center of Excellence for Emerging Zoonotic Animal Diseases, "Risk Factors for Rift Valley Fever Virus Infections among Herders in Kenya, Saudi Arabia, South Africa, and Madagascar"; Role: Kenya Site PI
- 11/2011 – 4/2012 Case Western Reserve University Clinical and Translational Science Core Pilot Grant, "The effect of maternal infections on B cell responses to vaccines when mediated by infant T cell responses to malarial antigens"; Role: Collaborator
- 8/2008 – 6/2009 American Society of Tropical Medicine and Hygiene, Robert E. Shope International Fellowship in Infectious Diseases; Rift Valley Fever Epidemiology in NE Kenya; Awardee
- 3/2008 – 2/2009 NIH, Midwest Regional Center of Excellence Developmental Project Award: Rift Valley Fever Virus activation of innate

pattern recognition receptors; PI: A Hise; Role: Co-investigator

- 9/2007 – 6/2009 NIH, National Center for Research Resources, Case Western Reserve University/Cleveland Clinic Clinical and Translational Science Award: 1KL2RR024990; PI: Richard Rudick; Role: KL2 Scholar
- 7/2006 – 8/2007 NIH, National Center for Research Resources, Multidisciplinary Clinical Research Career Development Programs Grant K12RR023264; PI: Richard Rudick; Role: MCRTTP Scholar
- 7/2003 – 6/2007 NIH ICIDR U01AI45473-S1 Biodefense Supplement: Transmission of Rift Valley Fever in Kenya; PI: CH King; Role: Co-Investigator
- 7/2003 – 6/2006 Institutional Infectious Diseases Training Grant: NIH grant T32AI52067; PI: Grace McComsey; Role: Research Fellow / Trainee

BIBLIOGRAPHY

Original Peer-reviewed Research Publications

1. **LaBeaud AD**, Lisgaris MV, King CH, Mandalakas AM. Pediatric West Nile virus infection: neurologic disease presentations during the 2002 epidemic in Cuyahoga County, Ohio. *Pediatric Infectious Diseases Journal*. 2006; 25:751-3. PMID 16874181.
2. **LaBeaud AD**, Kile JR, Kippes C, King CH, Mandalakas AM. Exposure to West Nile virus during the 2002 epidemic in Cuyahoga County, Ohio: a comparison of pediatric and adult behaviors. *Public Health Rep*. 2007; 122:356-61. PMID: 17518307. PMC: 1847498.
3. **LaBeaud AD**, Ochiai Y, Peters CJ, Muchiri EM, King CH. Spectrum of Rift Valley fever virus transmission in Kenya: insights from three distinct regions. *Am J Trop Med Hyg*. 2007;76:795-800. PMC2367216. PMC: 2367216.
4. **LaBeaud AD**, Gorman AM, Koonce J, Kippes C, McLeod J, Lynch J, Gallagher T, King CH, Mandalakas AM. Rapid GIS-based profiling of West Nile virus transmission: defining environmental factors associated with an

- urban-suburban outbreak in northeast Ohio, USA. *Geospat Health*. 2008;2:215-25. NIHMSID: 307251. PMC: 3140769.
5. **LaBeaud AD**, Muchiri EM, Ndzovu M, Mwanje MT, Muiruri S, Peters CJ, King CH. Interepidemic Rift Valley fever virus seropositivity, northeastern Kenya. *Emerg Infect Dis*. 2008;14:1240-6. PMC: 2600406.
 6. **LaBeaud AD**, Glinka A, Kippes C, King CH. School-based health promotion for mosquito-borne disease prevention in children. *J Pediatr*. 2009;155:590-2. PMC: 3104726.
 7. Yeo KT, Zhu X, Kirchner HL, **LaBeaud AD***, Mandalakas A. Candida skin testing is a poor adjunct to tuberculin skin testing in international adoptees. *Pediatr Infect Dis J*. 2009;28:1020-1. NIHMSID: 298049. PMC: 3133951. **Participated extensively in design and testing of participants. Helped write manuscript.*
 8. King CH, Kahlon SS, Muiruri S, **LaBeaud AD**. Facets of the Rift Valley fever outbreak in Northeastern Province, Kenya, 2006-2007. *Am J Trop Med Hyg*. 2010;82:363. PMC: 2829890.
 9. Kakani S, **LaBeaud AD**, and King CH. Planning for Rift Valley fever virus: Use of GIS to estimate the human health threat of white-tailed deer (*Odocoileus virginianus*)-related transmission. *Geospatial Health*, 2010;5:33-43. NIHMSID: 307278. PMC: 3140430. **Participated extensively in study design and in data analysis. Helped write manuscript and reviewed drafts.*
 10. **LaBeaud AD**, Bashir F, King CH. Measuring the burden of arboviral diseases: The spectrum of morbidity and mortality from four prevalent infections. *Population Health Metrics*, 2011;10:9:1. PMC: 3024945.
 11. **LaBeaud AD**, Sutherland LJ, Muiruri S, Gray L, Zimmerman PA, Hise AG, King CH. Arbovirus prevalence in mosquitoes, Kenya. *Emerging Infectious Diseases Journal*, 2011;17:233-41. PMC: 3204744.
 12. **LaBeaud AD**, Cross P, Getz W, Glinka A, King CH. Rift Valley fever virus infection in African buffalo (*Syncerus caffer*) herds in rural South Africa--Evidence of inter-epizootic transmission. *Am J Trop Med Hyg*. 2011;84:641-6. PMC: 3062463.
 13. Sutherland LJ, Cash AA, Sang RC, Huang YS, Malhotra I, King CL, Moormann AM, Weaver SC, King CH, and **LaBeaud AD**. Serological evidence of arboviral infections among humans in Kenya. *American Journal of Tropical Medicine & Hygiene*, 2011;85:158-61. PMC: 3122361.
 14. **LaBeaud AD**, Muiruri S, Sutherland LJ, Dahir S, Gildengorin G, Morrill J, Muchiri EM, Peters CJ, King CH. Postepidemic Analysis of Rift Valley fever virus transmission in northeastern Kenya: A village cohort study. *PLoS Neglected Tropical Diseases Journal*, 2011; 5:e1265. PMC: 3156691.

15. Hartley DM and the **National Center for Foreign Animal and Zoonotic Disease Defense Advisory Group on Rift Valley Fever (including AD LaBeaud)**. Potential effects of Rift Valley fever in the United States. *Emerg Infect Dis.* 2011;17:e1. PMC: 3381545 **Participated two day expert working group meeting in DC and assisted with expert content and manuscript editing.*
16. **LaBeaud AD**, Wentworth B, Gildengorin V, Tam K, Guardia-LaBar L, Petru A. Comparison of moderate and severe hospitalized pediatric 2009 H1N1 Influenza cases. *Pediatric Infectious Diseases Journal.* 2013; 32:e90-3. PMID: 23080289.
17. Dubray K, Anglemeyer A, **LaBeaud AD** et al. Epidemiology, outcomes, and predictors of recovery in childhood encephalitis: A hospital- based study. *Pediatric Infectious Diseases Journal.* 2013;32:839-44. PMID: 23518823. **As a mentor to Kara Dubray, I provided essential contributions to research and methods design, ongoing feedback during the data collection process, and guidance throughout manuscript writing including specific input in developing the initial draft as well as reviewing and providing detailed comments on multiple revisions.*
18. Newman-Gerhardt S, Muiruri S, Muchiri EM, Peters CJ, Morrill, Lucas AH, King CH, Kazura J, **LaBeaud AD**. Potential for autoimmune pathogenesis of Rift Valley fever virus retinitis. *American Journal of Tropical Medicine & Hygiene,* 2013 Sep; 89(3):495-7. PMC: 3771287.
19. Golnar AJ, Turell MJ, **LaBeaud AD**, Kading RC, Hamer G. Predicting the mosquito species and vertebrate species involved in the theoretical transmission of Rift Valley fever virus in the United States. *PLoS Neglected Tropical Diseases Journal,* 2014 Sep 11;8(9):e3163. doi: 10.1371/journal.pntd.0003163. PMC: 4161329. **Participated in study design, RVFV clinical and epidemiological expertise, data analysis and helped write manuscript.*
20. Muiruri S, Kabiru EW, Muchiri EM, Hussein H, Kagondou F, **LaBeaud AD**, King CH. Cross-sectional survey of Rift Valley fever virus exposure in Bodhei Village located in a transitional coastal forest habitat in Lamu County, Kenya. *American Journal of Tropical Medicine & Hygiene,* 2014 Dec 22. pii: 14-0440. PMC: 4347346. **Participated in study design, field work supervision, RVFV clinical and epidemiological expertise, data analysis and helped write manuscript.*
21. **LaBeaud AD**, Banda T, Brichard J, Borland E, Mungai PL, Mutuku FM, Gildengorin V, Pfeil S, Teng CY, Long K, Heise M, Muchiri EM, Powers AM, Kitron U, King CH. High rates of O'nyong Oyong and Chikungunya virus transmission in coastal Kenya. *PLoS Negl Trop Dis,* 2015; 9(2): e0003436.

- doi:10.1371/journal.pntd.0003436. PMC: 4319898.
22. Malhotra I, McKibben M, Mungai P, McKibben E, Wang X, Sutherland LJ, Muchiri E, King CH, King CL, **LaBeaud AD**. Effect of antenatal parasitic infections on anti-vaccine IgG levels in children: A prospective birth cohort study in Kenya. *PLoS Negl Trop Dis* 2015; 9(1): e0003466. doi:10.1371/journal.pntd.0003466. PMC: 4295886.
 23. Hise AG, Traylor Z, Hall NB, Sutherland LJ, Dahir S, Ermler ME, Muiruri S, Muchiri EM, Kazura JW, **LaBeaud AD**, King CH, Stein CM. Association of symptoms and severity of Rift Valley fever with genetic polymorphisms in human innate immune pathways. *PLoS Negl Trop Dis* 2015; 9(3): e0003584. doi:10.1371/journal.pntd.0003584. PMC: 4355584 **Research work supplied preliminary data for grant funding for this project, participated extensively in design and testing of participants. Helped write manuscript.*
 24. **LaBeaud AD**, Pfeil S, Muiruri S, Dahir S, Sutherland LJ, Traylor Z, Gildengorin G, Muchiri EM, Morrill J, Peters CJ, Hise AG, Kazura JW, King CH. Factors associated with severe human Rift Valley fever in Sangailu, Garissa County, Kenya. *PLoS Negl Trop Dis* 2015; 9(3): e0003548. doi:10.1371/journal.pntd.0003548. PMC: 4357470.
 25. **LaBeaud AD**, Singer MN, McKibben M, Mungai P, Muchiri EM, McKibben E, Gildengorin G, Sutherland LJ, King CH, King CL, Malhotra I. Parasitism in children aged three years and under: Relationship between infection and growth in rural coastal Kenya. *PLoS Negl Trop Dis* 2015; 9(5): e0003721. doi:10.1371/journal.pntd.0003721. PMC: 4440755.
 26. Gray GC, Anderson BD, **LaBeaud AD**, Heraud JM, Fèvre EM, Andriamandimby SF, Cook EA, Dahir S, de Glanville WA, Heil GL, Khan SU, Muiruri S, Olive MM, Thomas LF, Merrill HR, Merrill ML, Richt JA. Seroepidemiological study of interepidemic Rift Valley fever virus infection among persons with intense ruminant exposure in Madagascar and Kenya. *Am J Trop Med Hyg.* 2015 Oct 12. PMC: 4674260 **Was Site PI for Kenya portion of multinational study. Enrolled and tested participants samples to generate study data. Provided RVFV clinical, diagnostic, and epidemiologic expertise. Participated extensively in design and integration of multinational data. Helped write manuscript.*
 27. Bisanzio D, Mutuku F, **LaBeaud AD**, Mungai PL, Muinde J, Busaidy H, Mukoko D, King CH, Kitron U. Use of prospective hospital surveillance data to define spatiotemporal heterogeneity of malaria risk in coastal Kenya. *Malaria Journal*, Dec 1 2015;14:482. PMC: 4665820. **My grant supplied a large portion of data collection. Shared clinical and malaria data and trends. Participated in data analysis and helped write*

manuscript.

28. Macpherson CNL, Noël TP, Fields PJ, Jungkind D, Yearwood K, Simmons M, Widjaja S, Mitchell G, Noël D, Bidaisee S, Myers TE, & **LaBeaud AD**. Clinical and serological observations from a case series study during the Asian lineage Chikungunya outbreak in Grenada during 2014. *Am J Trop Med Hyg.* 2016 Oct 5; 95(4):890-893. PMC: 5062795
29. Singer MN, Heath CJ, Muinde J, Gildengorin V, Mutuku FM, Vu D, Mukoko D, King CL, Malhotra I, King CH, **LaBeaud AD**. Pneumococcal vaccine response after exposure to parasites in utero, in infancy, or mid-Childhood. *Pediatrics.* 2017 Mar 16. pii: e20162781. doi: 10.1542/peds.2016-2781. PMC: 5369673.
30. Vu D, Banda T, Teng C, Heimbaugh C, Muchiri E, Mungai P, Mutuku F, Brichard J, Gildengorin G, Borland E, Powers A, Kitron U, King CH, **LaBeaud AD**. Dengue and West Nile virus transmission in children and adults in coastal Kenya. *AJTMH* 2017 Jan 11;96(1):141-143. doi: 10.4269/ajtmh.16-0562. PMID: 27821697. PMC: 5239681.
31. Garchitorena A, Sokolow SH, Roche B5, Ngonghala CN, Jocque M, Lund A, Barry M, Mordecai EA, Daily GC, Jones JH, Andrews JR, Bendavid E, Luby SP, **LaBeaud AD**, Seetah K, Guégan JF, Bonds MH, De Leo GA. Disease ecology, health and the environment: Accounting for ecological and socio- economic drivers in the control of tropical diseases of poverty. *Phil. Trans. R.Soc. B* 372: 20160128.<http://dx.doi.org/10.1098/rstb.2016.012>. doi 10.1098/rstb/372/1722. PMC: 5413876. **Participated in study design; Helped write manuscript.*
32. McKittrick ND, Vu DM, Malhotra I, King CH, Mutuku F, **LaBeaud AD**. Parasitic infections in pregnancy decrease placental transfer of anti-pneumococcal antibodies. *Clin Vaccine Immunol.* 2017 Apr 12. pii: CVI.00039-17. doi: 10.1128/CVI.00039-17. PMC: 5461374.
33. Waggoner, Jesse; Heath, Claire; Ndenga, Bryson; Mutuku, Francis; Sahoo, Malaya; Mohamed-Hadley, Alisha; Vulule, John; Mukoko, Dunstan; **LaBeaud, AD**; Pinsky, Benjamin. Development of a real-time RT-PCR for O'nyong-Nyong virus and evaluation with clinical and mosquito specimens from Kenya. *Am. J. Trop. Med. Hyg.*, 97(1), 2017, pp. 121–124. doi:10.4269/ajtmh.17-0027 **My grant supplied all clinical samples tested. Participated extensively in design and testing of participants and clinical data and sample collection. Helped write manuscript.*
34. Cook EAJ, Grossi-Soyster EN, de Glanville WA, Thomas LF, Kariuki S, Bronsvort BMC, Wamae CN, **LaBeaud AD**, Fèvre EM. The sero-epidemiology of Rift Valley fever in people in the Lake Victoria Basin of western Kenya. *PLoS Negl Trop Dis.* 2017 Jul 7;11(7):e0005731. doi:

- 10.1371/journal.pntd.0005731. eCollection 2017 Jul. PMC: 5517073
**Participated extensively in design and testing of participants and clinical data and sample collection. Helped write manuscript.*
35. Grossi-Soyster EN, Banda T, Teng C, Muchiri E, Mungai P, Mutuku F, Gildengorin G, Kitron U, King CH, **LaBeaud AD**. Rift Valley fever seroprevalence in coastal Kenya. *Am. J. Trop. Med. Hyg.*, 97(1), 2017, pp. 115–120. doi:10.4269/ajtmh.17-0104
36. Waggoner J, Brichard J, Mutuku F, Ndenga B, Heath CJ, Mohamed-Hadley A, Sahoo MK, Vulule J, Lefterova M, Banaei N, Mukoko D, Pinsky BA, **LaBeaud AD**. Malaria and Chikungunya detected using molecular diagnostics among febrile Kenyan children. *Open Forum Infect Dis.* 2017 May 29;4(3):ofx110. doi: 10.1093/ofid/ofx110. PMID:28702473. PMC: 5505337.
37. Ngugi HN, Mutuku FM, Ndenga BA, Musunzaji PS, Mbakaya JO, Aswani P, Irungu LW, Mukoko D, Vulule J, Kitron U, **LaBeaud AD**. Characterization and productivity profiles of *Aedes Aegypti* (L.) breeding habitats across rural and urban landscapes in western and coastal Kenya. *Parasit Vectors.* 2017 Jul 12;10(1):331. doi: 10.1186/s13071-017-2271-9. PMID: 28701194. PMC: 5508769.
38. Vu DM, Mutai N, Heath C, Vulule JM, Mutuku FM, Ndenga BA, **LaBeaud AD**. Unrecognized dengue virus infections in children, western Kenya, 2014-2015. *Emerg Infect Dis.* 2017 Nov;23(11):1915-1917. doi: 10.3201/eid2311.170807.
39. Hooft AM, Ripp K, Ndenga B, Mutuku F, Vu D, Batzell K, Masese LN, Vulule J, Mukoko D, **LaBeaud AD**. Principles, practices and knowledge of clinicians when assessing febrile children: A qualitative study in Kenya. *Malar J.* 2017 Sep 20;16(1):381. doi: 10.1186/s12936-017-2021-7.
40. Ndenga BA, Mutuku FM, Ngugi HN, Mbakaya JO, Aswani P, Musunzaji PS, Vulule J, Mukoko D, Kitron U, **LaBeaud AD**. Characteristics of *Aedes Aegypti* adult mosquitoes in rural and urban areas of western and coastal Kenya, *PLoS One.* 2017 Dec 19;12(12):e0189971. doi: 10.1371/journal.pone.0189971
41. Mendes Neto NN, da Silva Maia JT, Zacarkim MR, Queiroz I, **LaBeaud AD**, Aronoff DM. Perinatal case fatality rate related to congenital Zika syndrome in Brazil: A cross-sectional study. *Pediatric Neurology* (2017), 2017 Dec 12. pii: S0887-8994(17)31131-1. doi: 10.1016/j.pediatrneurol.2017.11.012. **Mentored Nelson as a student. Was the content expert on arbovirus epidemiology for this work. Participated in study design; Helped write manuscript.*
42. Grossi-Soyster EN, Cook EAJ, de Glanville WA, Thomas LF, Krystosik AR,

- Lee J, Wamae CN, Kariuki S, Fèvre EM, **LaBeaud AD**. Serological and spatial analysis of alphavirus and flavivirus prevalence and risk factors in a rural community in western Kenya. *PLoS Negl Trop Dis*. 2017 Oct 17;11(10):e0005998. doi: 10.1371/journal.pntd.0005998.
43. Brenciaglia M, Noel TP, Fields P, Bidaisee S, Nelson WM, Venkateswaran N, Venkateswaran K, Parameswaran N, Myers T, Bahadoor A, Yearwood K, Mapp-Alexander V, Mitchell G, **LaBeaud AD**, Macpherson CNL. Clinical, serological and molecular observations from a case series study during the Asian lineage Zika virus outbreak in Grenada during 2016. *Can J Infect Dis Med Microbiol*. 2018 Feb 1;2018:4635647. doi: 10.1155/2018/4635647. **Was the Zika content expert for the country of Grenada during their recent Zika outbreak. Participated in study design, data collection, field supervision, and data analysis; Helped write manuscript.*
44. Heath CJ, Lowther J, Noël TP, Mark-George I, Boothroyd DB, Mitchell G, MacPherson CNL, **LaBeaud AD**. The identification of risk factors for chronic Chikungunya arthralgia in Grenada, West Indies: A cross sectional cohort study. *Open Forum Infect Dis*. 2018 Jan 3, 5(1):ofx234, <https://doi.org/10.1093/ofid/ofx234>
45. Heath CJ, Singer MN, King CH, Malhotra I, Mutuku F, Mukoko D, **LaBeaud AD**. Nasopharyngeal carriage of streptococcus pneumoniae in children in coastal Kenya. *Am J Trop Med Hyg*. 2018 Apr;98(4):1046-1050. doi: 10.4269/ajtmh.16-0813. Epub 2018 Feb 22.
46. Malhotra IM, **LaBeaud AD**, McKibben M, Mungai P, Morris N, Muchiri EM, King CL, King CH. Cord blood anti-parasite IL-10 as risk marker for compromised vaccine immunogenicity in early childhood. *J Infect Dis*. 2018 Apr 11;217(9):1426-1434. doi: 10.1093/infdis/jiy047. **Was one of three PIs for this research (First and last author are the other two PIs). My grant supported this work in its entirety. Participated extensively in design and collection of participant clinical data and sample collection. Helped write manuscript.*
47. Kao JE, Mutuku F, Martin S, Lee J, Muinde J, Mukoko D, Malhotra I, King C, **LaBeaud AD**. Early childhood anemia in a birth cohort in coastal Kenya: Links to infection and nutrition. *AJTMH* 2018, in print.
48. Contopoulos-Ioannidis D, Newman-Lindsay S, Chow C, **LaBeaud AD**. Mother-to-child transmission of Chikungunya virus: A systematic review and meta-analysis. *PLoS Negl Trop Dis*. 2018 Jun 13;12(6):e0006510. doi: 10.1371/journal.pntd.0006510.
49. Hortion L, Mutuku F, Eyherabide A, Vu D, Boothroyd D, Grossi-Soyster E, King C, Ndenga B, **LaBeaud AD**. Acute flavivirus and alphavirus infections among children in two different areas of Kenya, 2015. *AJTMH* 2018 Nov

19. doi: 10.4269/ajtmh.18-0297.
50. Gudo ES, Ali S, António VS, Chelene IR, Chongo I, Demanou M, Falk K, Guiliche OC, Heinrich N, Monteiro V, Muianga AF, Oludele J, Mula F, Mutuku F, Amade N, Alho P, Betsem E, Chimbuinhe Z, Cristovam AJ, Galano G, Gessain A, Harris E, Heise M, Inalda F, Jala I, Jaszi E, King C, Kitron U, Kümmerer BM, **LaBeaud AD**, Lagerqvist N, Malai G, Mazelier M, Mendes S, Mukoko D, Ndenga B, Njouom R, Pinto G, Tivane A, Vu DM, Vulule J. Seroepidemiological Studies of Arboviruses in Africa. *Adv Exp Med Biol.* 2018;1062:361-371. doi: 10.1007/978-981-10-8727-1_25. PMID: 29845545 **The collections of abstracts from participants at the 2nd Tofo Advanced Study Week which focused on dengue and Zika viruses as well as presentations on other arboviruses are collated in this chapter. We submitted several abstracts to this meeting that were included in this publication.*
51. Krystosik AR, Curtis A, **LaBeaud AD**, Davalos D, Bhatta MP, Pacheco R, Buritica P, Alvarez AA, Palacios JHR, James MA. Neighborhood Violence Impacts Disease Control and Surveillance: Case Study of Cali, Colombia from 2014 to 2016. *Int. J. Environ. Res. Public Health* 2018, 15, 2144; doi:10.3390/ijerph15102144 **As a mentor to Amy Krystosik, I provided essential contributions to research and methods design, ongoing feedback during the data collection process, and guidance throughout manuscript writing including specific input in developing the initial draft as well as reviewing and providing detailed comments on multiple revisions.*

Peer-reviewed Publications Other

1. **LaBeaud AD**, Leonard EG, McComsey GA. Index of suspicion. *Pediatr Rev.* 2006;27:389-94.
2. **LaBeaud AD**. Why arboviruses can be neglected tropical diseases. *PLoS Negl Trop Dis.* 2008;2:e247. PMID: PMC2427179.
3. **LaBeaud AD**, Malhotra I, King MJ, King CL, King CH. Do antenatal parasite infections devalue childhood vaccination? *PLoS Negl Trop Dis.* 2009;3:e442. PMID: PMC2682196.
4. Lancioni C, **LaBeaud AD***, Esper F, Abughali N, Auletta J. Pulmonary tuberculosis presenting as fever without source in a pediatric patient with acute lymphoblastic leukemia. *Pediatr Blood Cancer.* 2009;53:1318-20. **Mentored Chris Lancioni, my pediatric infectious diseases fellow. Participated extensively in care of the patient and mentored the fellow in this report. Helped write manuscript.*

5. **LaBeaud AD**, Kazura JW, King CH. Advances in Rift Valley fever research: insights for disease prevention. *Curr Opin Infect Dis.* 2010;23:403-8. NIHMSID: 299804.
6. **LaBeaud AD**, Aksoy S. Neglected funding for vector-borne diseases: A near miss this time, a possible disaster the next time. *PLoS Negl Trop Dis*, 2010;4: e847. PMID: PMC2964300.
7. **LaBeaud AD**. Towards a safe, effective vaccine for Rift Valley fever virus. *Future Virology*, 2010;5:675-678. PMID: PMC3058151.
8. Islam S, Cooney T, Singh A, Petru AM, **LaBeaud AD**. Painful arthritis and extremity rash in an 8 year-old boy. *Clin Infect Dis.* 2012; 54:1473,1514-5.
9. **LaBeaud, AD**, McKeating H. The largest drought in American history: Funding for science is drying up. *PLoS Neglected Tropical Diseases*, 2013 Aug 29;7(8):e2351.
10. Gerardin P, Randrianaivo H, Schaub B, Césaire R, Doray B, **LaBeaud AD**. Congenital Zika syndrome: time to move from case series to case-control studies and data sharing. *BMJ.* 2016 Sep 14;354:i4850. doi: 10.1136/bmj.i4850. PMID:27629599
11. Grossi-Soyster EN and **LaBeaud AD**. Clinical aspects of Zika virus. *Curr Opin Pediatr.* 2017 Feb;29(1):102-106 PMID: 27870688
12. Faburay B, **LaBeaud AD**, McVey DS, Wilson WC, Richt JA. Current status of Rift Valley fever vaccine development. *Vaccines (Basel).* 2017 Sep 19;5(3). pii: E29. doi: 10.3390/vaccines5030029. **Participated in study concept; RVFV clinical and epidemiologic content expert. Helped write manuscript.*
13. Blitvich BJ, Beaty BJ, Blair CD, Brault AC, Dobler G, Drebot MA, Haddow AD, Kramer LD, **LaBeaud AD**, Monath TP, Mossel EC, Plante K, Powers AM, Tesh RB, Turell MJ, Vasilakis N, Weaver SC. Bunyavirus taxonomy: Limitations and misconceptions associated with the current ICTV criteria used for species demarcation. *Am J Trop Med Hyg.* 2018 Jul;99(1):11-16. doi: 10.4269/ajtmh.18-0038. **As chair of ACAV, I promoted the idea for this editorial and encouraged Brad to draft it. Helped write and edit manuscript.*
14. Calisher CH, Briese T, Brister JR, Charrel RN, Dürrwald R, Ebihara H, Fulhorst CF, Fú Gão G, Groschup MH, Haddow AD, Hyndman TH, Junglen S, Klempa B, Klingström J, Kropinski AM, Krupovic M, **LaBeaud AD**, Maes P, Nowotny N, Nunes MRT, Payne SL, Radoshitzky SR, Rubbenstroth D, Sabanadzovic S, Sasaya T, Stenglein MD, Varsani A, Wahl V, Weaver SC, Zerbini FM, Vasilakis N, Kuhn JH Strengthening the Interaction of the Virology Community with the International Committee on Taxonomy of Viruses (ICTV) by Linking Virus Names and Their Abbreviations to Virus Species. *Systematic Biology*, in Print 2018. **As chair of ACAV, I promoted*

the idea for this editorial and encouraged Charlie to draft it. Helped write and edit manuscript.

15. Hotez PJ, Odom John AR, **LaBeaud, AD**. Pediatric Tropical Medicine: The Neglected Diseases of Children. PLoS Neglected Tropical Diseases, in print.

Book Chapters

1. **LaBeaud AD**, Toltzis P. The Immunocompromised Patient. In: Kirpalani H, Huang L, Michenko M. editors, Manual of Pediatric Intensive Care, 2009 PHMP/BC Decker.
2. **LaBeaud AD**, Weaver, SC. Equine Encephalitis. Hunter's Tropical Diseases, 9th edition. 2012 WB Saunders.
3. Sutherland LJ, Anyamba A, **LaBeaud AD**. Arboviruses and Climate Change. Viral Infections and Climate Change. 2014 Wiley Blackwell. p 477-493
4. Gérardin P, **LaBeaud AD**, Ritz N, Fritel X. Chikungunya Fever During Pregnancy and In Children: An Overview on Clinical and Research Perspectives. In: Rodriguez-Morales AJ. Current Topics in Chikungunya. Vol 1. Rijeka, Croatia: In Tech Press; 2016: 19-41.
<http://dx.doi.10.5772/64424>
5. McKittrick N, **LaBeaud AD**. Fever in the Returned Traveler. In: Pediatric Infectious Diseases: Essentials for Practice; In Press 2018.
6. **LaBeaud AD**, Shah M, Weaver, SC. Equine Encephalitis. Hunter's Tropical Diseases, 10th edition. 2017 WB Saunders.
7. Vu DM, Jungkind D, **LaBeaud AD**. Chikungunya Virus. Clinics in Laboratory Medicine, Vol. 37, Issue 2, p371–382. Published online: March 24, 2017

Multimedia

1. Hotez PJ, John, CJ, and **LaBeaud AD**. Parasites and other unwanted Souvenirs. In: PREP Audio, June 2012, Volume 7, No. 6.
2. **LaBeaud AD**. Zika virus infection: An overview. UpToDate, Inc. 2016, 2017, 2018, ongoing. Monthly updates.
3. **LaBeaud AD**, Grossi-Soyster EN. Rift Valley fever. BMJ Best Practice. Sept 2016. <http://bestpractice.bmj.com/best-practice/monograph/1602.html>. Last accessed October 6, 2016.
4. Grossi-Soyster EN and **LaBeaud AD**. Risk of widespread outbreak of Rift Valley fever linked to livestock trade. BMJ Blogs, April 2017
5. Grossi-Soyster EN and **LaBeaud AD**. Rift Valley fever virus: Future emergence and the impact on one health. The Biochemist Magazine. June 1, 2017.

PEER REVIEWED PLATFORM PRESENTATIONS

1. "Got milk? defining the link between milk and Rift Valley Fever," American Society of Tropical Medicine and Hygiene Annual Meeting (ASTMH), October 2018, New Orleans, LA
2. "Larval source reduction with a purpose: designing and evaluating a school and community intervention in coastal Kenya," ASTMH Annual Meeting, October 2018, New Orleans, LA
3. "Making Pastoralists Count: Health Surveillance of a Nomadic Population Using a Geospatially Derived Sampling Frame," ASTMH Annual Meeting, October 2018, New Orleans, LA
4. "Impaired Expressive Language in 24-month-old Infants Exposed to the Chikungunya Virus in Early Childhood," ASTMH Annual Meeting, October 2018, New Orleans, LA
5. "Pupal productivity of larval habitats of *Aedes aegypti* in Msambweni, Kwale County Kenya," 5th Pan African Mosquito Control Association Annual Conference, September 2018, Victoria Falls, Zimbabwe
6. "Congenital Zika Syndrome: Assessing the Fatality Rate Since the 2015 Zika Outbreak," - Infectious Diseases Society of America, IDWEEK 2018, October 2018, San Francisco, CA
7. "Perinatal Case Fatality Rate Related to Congenital Zika Syndrome in Brazil: A Cross-Sectional Study, IDWEEK 2017, October 2017, San Diego, CA
8. "Perinatal Case Fatality Rate Related to Congenital Zika Syndrome in Brazil: A Cross-Sectional Study," 70th Annual Meeting of the American Academy of Neurology, April 2018, Los Angeles, CA
9. "Chikungunya Infection during Gestation: Impact on Pregnancy and Neonatal Outcomes," Stanford Global Health Convening, January 2018, Stanford, CA

10. "Predictive Modeling of Mosquito Abundance and Dengue Transmission in Kenya," American Geophysical Union Fall Meeting, December 2017, New Orleans, LA
11. "Chikungunya Infection During Gestation: Impact on Pregnancy and Neonatal Outcomes," American Society of Tropical Medicine and Hygiene (ASTMH) Meeting, November 2017, Baltimore, MD
12. "Cord Blood Anti-Parasite IL-10 as Risk Marker for Compromised Vaccine Immunogenicity in Early Childhood," ASTMH Meeting, November 2017, Baltimore, MD
13. "Contributing Factors for Anemia in Young Children in Coastal Kenya," ASTMH Meeting, November 2017, Baltimore, MD
14. "Perinatal Case Fatality Rate Related to Congenital Zika Syndrome in Brazil: A Cross-Sectional Study," IDWeek 2017, October 2017, San Diego, CA
15. "The Latest Radiological Findings and Neurological Disorders in Microcephaly Cases Related to Zika Virus: A Cohort Study", Congress of Neurological Surgeons, October 2017, Boston, MA
16. "Mortality in Newborns with Microcephaly due to Maternal Zika Virus Infection in Rio Grande Do Norte State- Northeast Brazil: A Cross-Sectional Study", American Academy of Neurology 69th Annual Meeting, April 2017, Boston, MA
17. "Effect of Prenatal Exposure to Schistosomiasis and Co-infections with Schistosomiasis on Fetal Immune Responses," ASTMH Meeting, November 2016
18. "Maternal Parasitic Infections Alter Infant Antibody Response to Pneumococcal Immunization," ASTMH Meeting, November 2016, Atlanta, GA
19. "Parasitic Infections in Pregnancy Decreases Perinatal Transfer of Pneumococcal Antibodies", IDWEEK, October 2016, New Orleans, LA

20. "Mortality in Newborns with Microcephaly due to Maternal Zika Virus Infection in Rio Grande Do Norte State- Northeast Brazil: A Cross-Sectional Analysis", IDWEEK, October 2016, New Orleans, LA
21. "Discrepancies Between Test Results, Diagnosis, and Treatment of Febrile Illness in Kenyan Children", ASTMH Meeting, October 2015, Philadelphia, PA
22. "Maternal Parasitic Infections During Pregnancy and Specific Anti-parasite Cytokine Responses in Cord Blood Are Associated With Impaired Vaccine Efficacy in Kenyan Infants", ASTMH Meeting, October 2015
23. "Comparison of Rift Valley Fever Virus Prevalence Among Community Members and Slaughterhouse Workers in Western Kenya", ASTMH Meeting, October 2015 **Invited to co-chair session*
24. "Evidence of Transmission of Dengue and Chikungunya Viruses in Coastal Kenya", 2nd Ministry of Health Conference Seminar, Diani, Kenya, October 2015
25. "Characterization of Larval Habitats of *Aedes Aegypti* in the Southern Coast of Kenya", 2nd Pan African Mosquito Control Association (PAMCA) Conference, Dar es Salaam, Tanzania, October 2015
26. "Human Landing Periodicity of *Aedes Aegypti* in Coastal Kenya", 2nd Pan African Mosquito Control Association (PAMCA) Conference, Dar es Salaam, Tanzania, October 2015
27. "Sampling of *Aedes Aegypti* in Urban and Rural Areas within Coastal and Western Kenya Sites", 2nd Pan African Mosquito Control Association (PAMCA) Conference, Dar es Salaam, Tanzania, October 2015
28. "Recurrence Patterns of Asymptomatic Malaria in Children from a Malaria Endemic Area of South Coastal Kenya", 2nd Pan African Mosquito Control Association (PAMCA) Conference, Dar es Salaam, Tanzania, October 2015
29. "High Rates of O'nyong Nyong and Chikungunya Virus Transmission in Coastal Kenya", American Society of Tropical Medicine & Hygiene (ASTMH) Meeting, November 2014. **Invited to co-chair session*

30. "Helminth Infections During Pregnancy is Associated with Impaired Vaccine Efficacy in Kenyan Infants", ASTMH Meeting, November 2014.
**Invited to co-chair session*
31. "Flavivirus Exposure in Northeastern Kenya", ASTMH Meeting, November 2014.
32. "Large Burden of Dengue and West Nile Virus Transmission In Coastal Kenya", ASTMH Meeting, November 2014.
33. "Exposures to Chikungunya and Dengue Viruses in Two Coastal and Western Kenyan Sites", 1st Pan African Mosquito Control Association (PAMCA) Conference, Nairobi, Kenya, October 2014
34. "Alphavirus Prevalence in Coastal Kenya: O'Nyong Nyong and Chikungunya Are Common", American Society of Virology (ASV) Meeting, June 2014 **Invited to convene session*
35. "Effects of Early Parasitic Infections on Child Growth in Coastal Kenya", ASTMH Meeting, November 2013 **Invited to co-chair session*
36. "Exposure Factors and Disease Symptoms of Human Rift Valley Fever in Sangailu, Kenya", ASTMH Meeting, November 2013 **Invited to co-chair session*
37. "Schistosomiasis During Pregnancy is Associated with Impaired Vaccine Efficacy in Kenyan infants", ASTMH Meeting, November 2013 **Invited to co-chair session*
38. "Innate Immune Gene Polymorphisms Are Associated with Human Rift Valley Fever Disease", ASTMH Meeting, November 2012
39. "Parasitism in Children Aged 3 years and Under: Effects on Growth and Vaccine Response in Rural Coastal Kenya", International Conference on Emerging Infectious Diseases, March 2012
40. "Parasitism in Children Aged 3 years and Under: Effects on Growth and Vaccine Response in Rural Coastal Kenya", ASTMH Meeting, December 2011

41. "Effects of Antenatal Maternal Parasitic Treatment on Infant Antibody Response to H. Influenza Type B (Hib) Vaccination in a Mother-Child Cohort in Coast Province, Kenya", ASTMH Meeting, December 2011
42. "Rift Valley Fever Virus Infection in African Buffalo (*Syncerus caffer*) Herds in Rural South Africa--Evidence of Inter-Epizootic Transmission", ASTMH Meeting, December 2008.
43. "Late Outcomes of Rift Valley Fever in Kenya", ASTMH Meeting, November 2006.
44. "Transmission of Rift Valley Fever in Kenya: Retrospective Survey", ASTMH Meeting, December 2005.

PEER REVIEWED POSTER PRESENTATIONS (2010-PRESENT)

45. "Need for real time arboviral surveillance data to prevent outbreaks. A retrospective study of Zika, chikungunya, and dengue outbreaks in Cali Colombia 2014-2016," American Society of Tropical Medicine and Hygiene Annual Meeting (ASTMH), October 2018, New Orleans, LA
46. "Building Ecology into Models to Predict Arbovirus Dynamics," ASTMH Annual Meeting, October 2018, New Orleans, LA
47. "Susceptibility of Field-collected *Aedes aegypti* to conventional insecticides in coastal Kenya," ASTMH Annual Meeting, October 2018, New Orleans, LA
48. "Early and late night human landing periodicity of *Aedes aegypti* females in urban and rural sites in Kenya," ASTMH Annual Meeting, October 2018, New Orleans, LA
49. "Pupal productivity of larval habitats of *Aedes aegypti* in Msambweni, Kwale County Kenya," ASTMH Annual Meeting, October 2018, New Orleans, LA
50. "Decreased Incidence of Dengue, Chikungunya, and Zika Infections in Children throughout Belo Horizonte, Brazil: Surprising Findings from a Pilot Project in a Referral Emergency Department in 2017," ASTMH Annual Meeting, October 2018, New Orleans, LA

51. "Arbovirus and Malaria Co-Infections among Febrile Kenyan Children,"
ASTMH Annual Meeting, October 2018, New Orleans, LA
52. "Chikungunya virus outbreak and malaria co-infection: impact on clinical manifestations and disease severity in the Southern Coast of Kenya,"
ASTMH Annual Meeting, October 2018, New Orleans, LA
53. "Zika and Dengue Virus Infections in Pregnant Mothers in Grenada,"
ASTMH Annual Meeting, October 2018, New Orleans, LA
54. "Using complex data and deep learning to predict Rift Valley fever outbreaks,"
ASTMH Annual Meeting, October 2018, New Orleans, LA
55. "Prevalence of Chikungunya and Dengue virus exposure among children in Western Kenya,"
ASTMH Annual Meeting, October 2018, New Orleans, LA
56. "Phylogenetic analyses of all four dengue virus serotypes detected in western Kenya, 2014-2015,"
ASTMH Annual Meeting, October 2018, New Orleans, LA
57. "Distribution of Dengue Cases in Kisumu City and Environs,"
ASTMH Annual Meeting, October 2018, New Orleans, LA
58. "Risk Factors for Malaria Positivity among Febrile Children at Four Heterogeneous Kenyan Clinics,"
ASTMH Annual Meeting, October 2018, New Orleans, LA
59. "Unrecognized Dengue and Chikungunya Human Transmission in Western and Coastal Kenya,"
ASTMH Annual Meeting, October 2018, New Orleans, LA
60. "Phylogenetic analyses of all four dengue virus serotypes detected in western Kenya,"
ASTMH Annual Meeting, October 2018, New Orleans, LA
61. "Congenital Zika Syndrome: Assessing the Fatality Rate Since the 2015 Zika Outbreak,"
IDWeek 2018, October 2018, San Francisco, CA

62. "Neurological Disorders and Radiological Findings. How Are They Related in Congenital Zika Syndrome?" IDWeek 2018, October 2018, San Francisco, CA
63. "Radiological Findings in Microcephaly Cases During 2015-2016 Zika Outbreak: A Descriptive Study," IDWeek 2018, October 2018, San Francisco, CA
64. "Cross-Reactivity Between Zika and Dengue Virus: A Cross-Sectional Analysis in Rio Grande do Norte, Brazil," IDWeek 2018, October 2018, San Francisco, CA
65. "Zika and Dengue Infections in Pregnant Women in Grenada," Annual ID retreat, May 2018, Stanford, CA
66. "Comparison of Rift Valley Fever Virus Prevalence Among Community Members and Slaughterhouse Workers in Western Kenya," Stanford One Health 2018 Symposium, May 2018, Stanford, CA
67. "A Comparison of Rapid and Standard Diagnostic Assay Efficacy for the Detection of Dengue Virus," 9th Annual Stanford School of Medicine Pediatrics Research Retreat, April 2018, Stanford, CA
68. "Dengue and Chikungunya Human Transmission in Western and Coastal Kenya: Geographic, Climactic, Vectorial, and Sociodemographic Risk Factors for Exposure and Disease," 9th Annual Stanford School of Medicine Pediatrics Research Retreat, April 2018, Stanford, CA
69. "Arboviruses Are Responsible for a Large Burden of Disease Globally," 9th Annual Stanford School of Medicine Pediatrics Research Retreat, April 2018, Stanford, CA
70. "CT Scan Findings in Microcephaly Cases During 2015-2016 Zika Outbreak: A Cohort Study", American Academy of Neurology Meeting, April 2018, LA, CA
71. "Radiological Findings and Neurological Disorders in Microcephaly Cases Related to Zika Virus: A Cohort Study", American Academy of Neurology Meeting, April 2018, LA, CA

72. "Perinatal Case Fatality Rate in Cases of Congenital Zika Syndrome: A Cross-Sectional Study, American Academy of Neurology Meeting, April 2018, LA, CA
73. "Epidemiology of Malaria Among Febrile Children in Western and Coastal Kenya," Stanford Global Health Convening, January 2018, Stanford, CA
74. "Dengue and Chikungunya Human Transmission in Western and Coastal Kenya: Geographic, Climactic, Vectorial, and Sociodemographic Risk Factors for Exposure and Disease," Stanford Global Health Convening, January 2018, Stanford, CA
75. "Impacts of Vector Abundance and Weather on Risk of Dengue and Chikungunya Incidence Across Kenya," Stanford Global Health Convening, January 2018, Stanford, CA
76. "Making Pastoralists Count: Health Surveillance of a Nomadic Population Using a Geospatially Derived Sampling Frame," Stanford Global Health Convening, January 2018, Stanford, CA
77. "Predictive modeling of mosquito abundance and dengue transmission in Kenya," Stanford Global Health Convening, January 2018, Stanford, CA
78. A Comparison of Rapid and Standard Diagnostic Assay Efficacy for the Detection of Dengue Virus," Stanford Global Health Convening, January 2018, Stanford, CA
79. Where Has All the Dengue Gone?: An Unexpected Drop in Arboviral Infections in Children throughout Belo Horizonte, Brazil," Stanford Global Health Convening, January 2018, Stanford, CA
80. "Differences in symptomatology of childhood dengue, chikungunya, and malaria infection in Kenya," Stanford Global Health Convening, January 2018, Stanford, CA
81. Demographic and Regional Risk Factors for Malaria-Associated Hospitalizations in Western and Coastal Kenya," Stanford Global Health Convening, January 2018, Stanford, CA

82. "Burden of Asymptomatic Malaria in Children 2-17 Years from Malaria Endemic Regions of Kenya," ASTMH Meeting, November 2017, Baltimore, MD
83. "Presence and Abundance of *Aedes Aegypti* Adult Mosquitoes in Rural and Urban Areas of Western and Coastal Kenya: A potential Risk for the Occurrence and Transmission of Arboviral Diseases," ASTMH Meeting, November 2017, Baltimore, MD
84. "Understanding the Community Context of *Aedes Aegypti* Mosquito Breeding in Coastal Kenya: Implications for Control," ASTMH Meeting, November 2017, Baltimore, MD
85. "The Prevalence and Contributing Factors of Early Childhood Stunting in Rural Coastal Kenya," ASTMH Meeting, November 2017, Baltimore, MD
86. "Differences in Symptomatology of Childhood Dengue, Chikungunya and Malaria Infection in Kenya," ASTMH Meeting, November 2017, Baltimore, MD
87. "A Comparison of Rapid and Standard Diagnostic Assay Efficacy for the Detection of Dengue Virus," ASTMH Meeting, November 2017, Baltimore, MD
88. "Impacts of Vector Abundance and Weather on Risk of Dengue and Chikungunya Incidence across Kenya," ASTMH Meeting, November 2017, Baltimore, MD
89. "Demographic and Regional Risk Factors for Malaria-Associated Hospitalizations in Western and Coastal Kenya," ASTMH Meeting, November 2017, Baltimore, MD
90. "Epidemiological Profile of Children Infected with Bordetella Pertussis at Varela Santiago Children's Hospital: A Retrospective Study," IDWEEK, October 2017, San Diego, CA
91. "Congenital Neurological Disorders in Children with Microcephaly Related to Exanthematous Diseases During Pregnancy: A Cohort Study" IDWeek 2017, October 2017, San Diego, CA

92. "Modulating Immune Responses to Zika Virus Infection Through Dengue Virus Antibodies: An Epidemiological Analysis", IDWeek 2017, October 2017, San Diego, CA
93. "'Epidemiological Profile of Children Infected with Bordetella Pertussis at Varela Santiago Children's Hospital: a Retrospective Study," New England Science Symposium (NESS), April 2017, Boston, MA
94. "Characterization of Larval Habitats of *Aedes Aegypti* in Kenya," American Mosquito Control Association Annual Meeting, February 2017
95. "Human-Disease Causing Arbovirus Prevalence in Kenyan Mosquitoes," American Mosquito Control Association Annual Meeting, February 2017
96. "Pneumococcal Vaccine Response in Children Previously Exposed to Parasites in Utero, in Infancy, or Mid-Childhood," ASTMH Meeting, November 2016
97. "Characterization of Larval Habitats of *Aedes Aegypti* in Kenya," ASTMH Meeting, November 2016
98. "Evaluation of the Health-Related Quality of Life of Children with Dengue and Malaria in Western Kenya," ASTMH Meeting, November 2016
99. "Plasmodium Falciparum Co-Infection Modulates Dengue Disease Severity," ASTMH Meeting, November 2016
100. "Investigating Dengue Virus Infection as a Cause of Fever in Kenyan Children," ASTMH Meeting, November 2016
101. "Is Timing of *in utero* Exposure Key in Preventing Fetal Priming?" ASTMH Meeting, November 2016
102. "Chikungunya Virus Infection is Causing Acute Febrile Illness Among Children in Kenya," ASTMH Meeting, November 2016
103. "Seroprevalence of Flaviviruses and Alphaviruses in Children in Coastal Kenya: A 2015 Snapshot," ASTMH Meeting, November 2016

104. "Comparison of Alphavirus and Flavivirus Prevalence in Western Kenya," ASTMH Meeting, November 2016
105. "Principles, Practices, and Knowledge of Providers Evaluating Children Presenting with Fever in Kenya," ASTMH Meeting, November 2016
106. "Human-Disease Causing Arbovirus Prevalence in Kenyan Mosquitoes," ASTMH Meeting, November 2016
107. "Maternal Iron Deficiency Anemia, Malaria and Soil Transmitted Helminths are a Major Risk Factor for Anemia in Early Childhood," ASTMH Meeting, November 2016
108. "Seasonal Prevalence of Alphaviruses and Flaviviruses in Children in Western Kenya," ASTMH Meeting, November 2016
109. "Evaluation of the Health-Related Quality of Life of Children with Dengue and Malaria in Western Kenya", IDSA Meeting, October 2016
110. "Identification of Factors Associated with Chronic Chikungunya Disease in Patients in Grenada, West Indies", IDSA Meeting, October 2016
111. "Maternal Parasitic Infections Alter Infant Antibody Response to Pneumococcal Immunization", IDSA Meeting, October 2016
112. "Dengue Viremia in Kenyan Children with Acute Febrile Illness", IDSA Meeting, October 2016
113. "Acute Febrile Illness Due to Dengue Virus Infections Among Children in Western Kenya," ASTMH Meeting, October 2015
114. "Evidence of Transmission of Dengue and Chikungunya Viruses in Western Kenya," ASTMH Meeting, October 2015
115. "Development of a Quantitative, Real-Time Reverse-Transcriptase PCR for O'nyong-Nyong Virus and Absence of Virus Detection Among Febrile Kenyan Children," ASTMH Meeting, October 2015

116. "Pneumococcal Vaccine Response in Mid-Childhood is not Affected by Previous Parasite Exposure in Utero or During the First 36 Months of life in Coastal Kenya," ASTMH Meeting, October 2015
117. "Chikungunya Fever in the Caribbean: Clinical Findings From Grenada," ASTMH Meeting, October 2015
118. "Streptococcus Pneumoniae Carriage Rates and Serotype Prevalence in Coastal Kenya," ASTMH Meeting, October 2015
119. "Comparison of Blood Smear with Serum Molecular Testing for the Diagnosis of Malaria Among Febrile Kenyan Children," ASTMH Meeting, October 2015
120. "High Prevalence of Flavivirus Exposure Among Pregnant Women in Mysore, India", ASTMH Meeting, November 2014.
121. "Hookworm Infection In School-Aged Kenyan Children Is Associated with Lower Physical Fitness", ASTMH Meeting, November 2014.
122. "Rift Valley Fever Seroprevalence in Coastal Kenya", ASTMH Meeting, November 2013.
123. "Dengue and Chikungunya Seroprevalence in Rural Coastal Kenya", ASTMH Meeting, November 2013.
124. "Schistosomiasis During Pregnancy is Associated with Impaired Vaccine Efficacy in Kenyan Infants", Keystone Meeting: Advancing Vaccines in the Genomics Era, October 2013.
125. "Effects of Early Parasitic Infections on Child Growth in Coastal Kenya", Infectious Diseases Society of America (IDSA), October 2013.
126. "Dengue and Chikungunya Seroprevalence in Rural Coastal Kenya", IDSA, October 2013. **Invited to participate in ID Week Global Health Poster Gallery*
127. "Exposure Factors and Disease Symptoms of Human Rift Valley Fever in Sangailu, Kenya", IDSA, October 2013.

128. "Dengue and Chikungunya Seroprevalence in Rural Coastal Kenya", National RCE Meeting, April 2013.
129. "Antenatal Malaria and Parasitic Infections are Associated with Impaired Vaccine Efficacy in Kenyan Infants", Keystone Meeting: Immunological Mechanisms of Vaccination (S3), December 2012.
130. "Dengue Virus Seroprevalence in Milalani, a Rural Village in Coastal Kenya", ASTMH Meeting, November 2012.
131. "Post-Epidemic Seroprevalence of Rift Valley Fever Virus Among Somali Villages in North Eastern Kenya", ASTMH Meeting, November 2012.
132. "Antenatal Malaria Infections are Associated with Impaired Hib and Diphtheria Vaccine Immune Responses in Kenyan Children", ASTMH Meeting, November 2012.
133. "Dengue Virus Seroprevalence in Milalani, a Rural Village in Coastal Kenya", Bay Area Clinical Research Symposium, November 2012.
134. "Post-Epidemic Seroprevalence of Rift Valley Fever Virus Among Somali Villages in North Eastern Kenya", International Conference on Emerging Infectious Diseases, March 2012.
135. "Autoimmune Pathogenesis of Rift Valley Fever Retinitis", International Conference on Emerging Infectious Diseases, March 2012.
136. "Rift Valley Fever Virus (RVFV) Seropositivity in Pediatric Patients: A Study of Behavioral and Environmental Causes", International Conference on Emerging Infectious Diseases, March 2012.
137. "Effects of Gastroenteritis Episodes on Maintenance of Polio Vaccine Titers in Children 3 years and Under in Rural Coastal Kenya", International Conference on Emerging Infectious Diseases, March 2012.
138. "Autoimmune Pathogenesis of Rift Valley Fever Retinitis", ASTMH Meeting, December 2011.

139. "Rift Valley Fever Virus (RVFV) Seropositivity in Pediatric Patients: A Study of Behavioral and Environmental Causes", ASTMH Meeting, December 2011.
140. "Human Cellular Responses to Rift Valley Fever Virus", ASTMH Meeting, December 2011.
141. "Effects of Gastroenteritis Episodes on Maintenance of Polio Vaccine Titers in Children 3 years and Under in Rural Coastal Kenya", ASTMH Meeting, December 2011.
142. "Alphavirus Infection Among Pediatric Endemic Burkitt's Lymphoma in Kenya", ASTMH Meeting, December 2011.
143. "The Impact of Maternal Antenatal Tetanus Vaccination on the Immunogenicity of the Conjugated Tetanus-Haemophilus Influenza Type B Vaccine in Infants in Coastal Kenya", ASTMH Meeting, December 2011.
144. "Antenatal Malaria and Helminth Infections are Associated with Impaired Vaccine Efficacy in Kenyan", ASTMH Meeting, December 2011.
145. "Autoimmune Pathogenesis of Rift Valley Fever Retinitis", Bay Area Clinical Research Symposium, November 2011.
146. "Rift Valley Fever Virus (RVFV) Seropositivity in Pediatric Patients: A Study of Behavioral and Environmental Causes", Bay Area Clinical Research Symposium, November 2011.
147. "Predictors of Outcome Among Children Hospitalized with Encephalitis", IDSA, October 2011.
148. "Detection of Flavivirus Antibodies in High-Risk Populations: Comparison of Multiplex IFA with Standard ELISA Methods in Two Regions of Kenya", Pediatric Academic Societies Annual Meeting, May 2011.
149. "Comparison of Moderate and Severe Hospitalized Pediatric 2009 H1N1 Influenza Cases", Pediatric Academic Societies Annual Meeting, May 2011.

150. "Direct Human-Animal Interactions Pose Increased Risk of Rift Valley Fever Transmission in Kenya.", 13th Annual Northern California Global Health Conference, UC Davis, April 2011.
151. "Serological Evidence of Arboviral Infections Among Humans in Kenya", ASTMH Meeting, November 2010.
152. "Planning for Rift Valley Fever Virus: Use of GIS to Estimate the Human Health Threat of White-Tailed Deer (*Odocoileus virginianus*)-Related Transmission", ASTMH Meeting, November 2010.
153. "High Seroprevalence of Arboviral Infections Among Kenyans", IDSA, October 2010.
154. "High Seroprevalence of Arboviral Infections Among Kenyans", Global Health Council Meeting, June 2010.

TEACHING ACTIVITIES

Undergraduates Bailey Wentworth, Research Mentor, CHORI Summer Research Internship; 6/2010-8/2010; Shoshana Newman-Gehardt, Research Mentor, UC Berkeley Molecular and Cell Biology Summer Internship, 4/2011- 9/2011; Anika Singh, Research Mentor, UC Berkeley Molecular and Cell Biology Summer Internship, 4/2011- 9/2011; Chelsea Heimbaugh, Research Mentor, CHORI NIH Summer Research Internship; 5/2012-8/2012; Crystal Teng, Research Mentor, UC Berkeley Molecular and Cell Biology Summer Internship, 4/2012-6/2013; Nina Ngong, Research Mentor, CHORI NIH Summer Research Internship; 6/2013-8/2013; Sarah Pfeil, Research mentor, 9/2012-3/2014; Tamara Banda, Research mentor, 8/2012-3/2014; Nandita Ganesh, Research mentor, 9/2013-9/2014; Tanu Patel, Research mentor, 10/2013-10/2014; Elizabeth Liu, research Mentor, 5/2015- present; Anika Sharma, Research Mentor, 6/2016-8/2016; Paras Shah, Research Mentor, 6/2016-8/2016; Katherine Jabba, Research Mentor, 6/2016-9/2016; Eleanor Frost, Research mentor, 9/2016-6/2017; Riasoya Joda, Research mentor, 4/2017-8/2017; Reinaldo Perez, Research mentor, 4/2017- 11/2017; Cameron Nosrat, Research mentor, 4/2017- present

Graduate Students Alison Glinka, MPH capstone committee, Case Western Reserve University, 2006-2009; Laura Sutherland, MS mentor, Ohio State University, 2006-2009 and Scientific/professional mentor 2006-present; Fatima Bashir, 2009-2010, research advisor; Njenga Ngugi, 2014-present, PhD co-mentor, University of Nairobi College of Biological and Physical Sciences; Esther Ombewa Okello, 2015-present, MPH mentor, Maseno University; Sandra Kavaya Musaki, 2015-present, MS mentor, Medical Biotechnology, Maseno University; Kiptanui Mutai, 2015-present, MS mentor, Medical Biotechnology, Maseno University; Sammy Githui Kimaru, 2015-present, MPH mentor, Technical University of Mombasa; Jimmy Hortion, 2/2016-5/2016 and 2/2017-6/2017; MS from Ecole Normale Supérieure de Lyon, France, research mentor ; Peter Siema, 2016-present, MPH mentor, Technical University of Mombasa; Alawi Salim, 2016-present, MPH mentor, Technical University of Mombasa; George Korir, PhD candidate, Stanford University, qualifying committee July 2015; Haripriya Mukundarajan, PhD candidate, Stanford University, 2015- present; Jason Lowther, M.S. candidate, St. George's University, 2015-2017; Jenna Forsyth, PhD candidate mentor, Stanford University, 2015-present; David Mariano, MS Epi candidate mentor, Stanford University, 2017-present; Hellen Barsosio, PhD candidate mentor, Liverpool School of Tropical Medicine, 2018-present

Medical Students Max McKibben, 3rd year Medical student, year abroad research project mentor, 8/2010-7/2011; Lilly Muldoon, 3rd year Medical student, UCSF summer abroad research project mentor, 6/2011-8/2011; Christo Sanchez, 3rd year Medical student, UCSF summer abroad research project mentor, 6/2011-8/2011; Paul Adamson, 3rd year Medical student, UCSF summer abroad research project mentor, 6/2011-8/2011; Kelsey Ripp, 4th year medical student, Brown University, abroad research project mentor, planned 9/2015-11/2015 **Awarded ASTMH Kean fellowship for this project;* Camille Chow, St. George's University, research project mentor 11/2014-present; Julia Kao, 1st year student,

Stanford University, MedScholars research project mentor 6/2016-present **Awarded Stanford MedScholars funding for this project and won the best research presentation award at the Medical research symposium 2017*; Shanique Martin, 1st year student, Stanford University, MedScholars research project mentor 6/2016-present, **Awarded Stanford MedScholars funding for this project*; Nilson Mendes Neto, Giselda Trigueiro Hospital – Brazil, medical student, research mentor 8/2016-present, **Awarded multiple travel awards for this project*; Hannah Wild, 1st year student, MedScholars research project mentor 6/2017-present, *Awarded Stanford MedScholars funding and an ASTMH Kean fellowship for this project*; Arielle Kempinsky, 1st year student, MedScholars research project mentor 3/2018-present, *Awarded Stanford MedScholars funding for this project*

Post-graduate students / Fellows / Postdocs

Monica Singer: Scientific mentor for Peds ID Fellowship Research on polyparasitism and vaccine response, 7/2012-9/2015**Awarded ASTMH Travel Award for this project*; Alexandra Duque-Silva, Co-Research Supervisor for Fellowship in Infectious Diseases, CHORI, 2011-2015; Kara Dubray, Co-Research Mentor for Fellowship in Infectious Diseases, CHORI, 2009-2012 and Scientific/professional mentor 2009-2015; Julie Brichard, Research mentor 6/2013-4/2015; Claire Heath, postdoctoral fellow, 3/14-6/16, **Awarded ASTMH Shope Fellowship Award for Grenada project*; Ana Eyherabide, pediatric resident at Sanatorio de Niños, Argentina 2/2016-5/2016, research mentor; Anneka Hooft, Scientific mentor for UCSF Peds Residency Pathway to Discovery Research, 1/2014-6/2016; **Awarded UCSF Pathways Grant for this project*; Noah McKittrick, scientific mentor for Adult ID fellowship research, 7/2015-6/2017; **Awarded Stanford CHRI Grant for this project*; Michael Maurer, 4/2016-present, Stanford Pediatric resident, research mentor; Melisa Shah, scientific mentor for Adult ID fellowship research, 7/2016-present; **Awarded Stanford CHRI Grant for this project*; Alaina Critchlow, 4/2017-present, Stanford Pediatric resident, research mentor;

**Awarded Stanford Resident Research Grant for this project, Julia Lonhart, 4/2017-6/2017, Stanford Pediatric resident, research mentor; Amy Krystosik, postdoctoral fellow, 1/17-present, *Awarded ASTMH Shope Fellowship Award and Stanford CHRI Grant for Kenya projects; Jamie Caldwell, postdoctoral fellow, 1/17-present*

Junior Faculty

David Vu (instructor): Scientific mentor for research on dengue and malaria coinfection, 5/2014-present **Awarded NIH Loan Repayment Award for this project; *Awarded Stanford KL2 Grant for this project; *Awarded NIH K23 Grant for this project*

Elizabeth Egan (assistant professor): Scientific mentor for research on host factors in malaria pathogenesis: 5/2016-present **Awarded Doris Duke 2016 Clinical Scientist Award*

Prasanna Jagannathan (assistant professor): Scientific mentor for research on malaria pathogenesis in pregnancy: 1/2017-present **Awarded CHRI Award for this project*

Courses/Panels

Dr. Interns, UCB Fall Semester 2013, 1 panel discussion

Dr. Interns, UCB Winter Semester 2014, 1 panel discussion

Neglected Tropical Diseases EPI 261, UCSF Winter Semester 2015, 1 lecture

HumBio124C Global Child Health, Stanford Winter Semester 2015, Winter Semester 2016, 1 lecture per semester

Global Health course, Stanford Fall Semester 2015, 1 panel discussion; Stanford Fall Semester 2016, 1 lecture;

Pediatric Interest Group, Stanford Fall Semester 2015, 1 panel discussion

Stanford Medical School Microbiology Course, Facilitator for Session on Zoonoses and Vector-borne infections, Winter Semester 2015-2016

Stanford Medical School Microbiology Course, Facilitator for Lecture on Vector-borne disease ecology in BIO 2N - Ecology and Evolution of Infectious Disease in a Changing World, Spring Semester 2016

Lecture on Arboviruses in Discovery and Innovation in Emerging Viral Infections Course, Stanford University, Winter Semester 2017

Lectures on Arboviral Epidemiology in Infectious Disease Epidemiology Course (HRP 231), Stanford University, Winter Semester 2017

Emerging Viral Infections Course, Stanford University, Winter Semester 2018

Stanford MOOC: Environmental Change and Infectious Diseases; Two lectures: 1) Dengue virus and *Aedes* urban adaptation and 2) Rift Valley Fever Virus and One Health Lectures on Arboviral Epidemiology in Infectious Disease Epidemiology Course (HRP 231), Stanford University, Spring Semester 2018

INVITED LECTURES- NATIONAL AND INTERNATIONAL

November 2018 "From the Lab to the Field: Solutions for Women's Career Advancement in Tropical Medicine and Global Health" symposium, Invited symposium panelist, Annual Meeting of the American Society of Tropical Medicine and Hygiene, New Orleans, Louisiana

- November 2018 "New Insights into Rift Valley Fever" in Recent Advances in Viral Hemorrhagic Fever Research symposium, Annual Meeting of the American Society of Tropical Medicine and Hygiene, New Orleans, Louisiana
- October 2018 American Committee on Arthropod-Borne Viruses (ACAV) Symposium I: Annual Business Meeting, Awards and Research Presentations by Previous Awardees symposium chair, Annual Meeting of the American Society of Tropical Medicine and Hygiene, New Orleans, Louisiana
- August 2018 "Predicting Dengue in the Tropics: Aligning Kenya and Ecuador Research Platforms," Clima-Enfermedades Transmitidas por Vectores: UT Machala y SUNY-Upstate Research Conference, Machala, Ecuador
- June 2018 "Making the Invisible Visible: Arbovirus Transmission, risk, Disease and Prevention in Kenya", 2018 Women in Science Award Speaker at the International Conference for Antiviral Research, Porto, Portugal
- June 2018 "Dengue and Chikungunya Research Update in Kenya", National Kenya Ministry of Health Policy Meeting on Vector-Borne Disease Threats, Nairobi, Kenya
- April 2018 "It's Not Just a Fever: Long-Term Consequences of Arboviral Infections", Neglected Tropical Diseases Course, London School of Tropical Medicine and Hygiene
- April 2018 "Factors Responsible for the Emergence of Arboviruses: Strategies, Challenges and Limitations for their Control", International Symposium of Emerging and Re-emerging Infectious Diseases, Belo Horizonte, Brazil
- April 2018 "Stanford University School of Medicine: Overview of Programs and Opportunities for Partnerships", International Symposium of Emerging and Re-emerging Infectious Diseases, Belo Horizonte, Brazil

- March 2018 "Making the Invisible Visible: Arbovirus Transmission, Risk, Disease and Prevention in Kenya", Epidemiology Seminar, London Tropical School of Hygiene & Tropical Medicine
- February 2018 "Making the Invisible Visible: Arbovirus Transmission, Risk, Disease and Prevention in Kenya", Paediatric Infectious Diseases Research Group Seminar, St George's, University of London
- January 2018 "Lessons Learned at Home and Abroad: Arboviral Disease and Prevention in Grenada", WINDREF Graduate Seminar, St. George's University, Grenada
- November 2017 "Science Is Real: Climate Change Impacts on Vector Borne-Diseases", Annual Meeting of the American Society of Tropical Medicine and Hygiene Symposium Chair, Baltimore, Maryland
- November 2017 "American Committee on Arthropod-Borne Viruses Business Symposium", Annual Meeting of the American Society of Tropical Medicine and Hygiene Symposium Co-Chair, Baltimore, Maryland
- November 2017 "Career Trajectories and Work-Life Balance in Academia, Government, and the Private Sector of the Infectious Disease Arena", Annual Meeting of the American Society of Tropical Medicine and Hygiene Symposium Co-Chair, Baltimore, Maryland
- November 2017 "Prenatal Infection with Arboviruses in Humans," American Committee on Arboviruses Pre-meeting Course "Clinical Presentation and Management of Arboviral Diseases: Lessons From the Bedside for Researchers at the Bench or in the Bush", Baltimore, Maryland
- October 2017 "A World Gone Viral: The Emerging Arboviruses", Plenary speaker, Brazilian Society of Microbiology Annual Meeting, Foz do Iguaçu, Brazil

- October 2017 "Zika Virus Infection in Pregnant Women: Impact on the Fetus & Neonate", Invited Seminar, China CDC, Beijing, China
- October 2017 "Zika Virus Infection in Pregnant Women: Impact on the Fetus and Neonate", 5th Annual Fall Conference on Current Concepts in Neonatal Care, Napa, California
- October 2017 "Congenital Vector-Borne Diseases and Early Child Neurodevelopmental Outcomes", 5th Annual Fall Conference on Current Concepts in Neonatal Care, Napa, California
- July 2017 "Dengue and Chikungunya Epidemiology in Kenya", Kwale County Ministry of Health Policy Meeting on Vector-Borne Disease Threats, Kwale
- June 2017 "Dengue and Chikungunya Research Update in Kenya", National Kenya Ministry of Health Policy Meeting on Vector-Borne Disease Threats, Nairobi
- June 2017 "Dengue and Chikungunya Research Update in Kenya", Technical University of Mombasa Research Lectureship, Mombasa
- June 2017 "Dengue and Chikungunya Epidemiology in Kenya", Kisumu County Ministry of Health Policy Meeting on Vector-Borne Disease Threats, Kisumu
- March 2017 "Arboviral Exposure and Disease in Grenada, West Indies: An Update on CHIKV and ZIKV Collaborative Research", WINDREF, St. George's, Grenada
- January 2017 "Making the Invisible Visible: Arbovirus Transmission, Risk, Disease and Prevention in Kenya", Fiocruz, Salvador, Brazil
- January 2017 "Arbovirus infections worldwide" Minas Gerais Society of Infectious Diseases Grand Rounds, Belo Horizonte, Brazil

- January 2017 "Stanford Global Health", Board of Directors Meeting
FASEH, Belo Horizonte, Brazil
- January 2017 "Making the Invisible Visible: Arbovirus transmission, risk,
disease and prevention in Kenya", Fiocruz, Belo Horizonte,
Brazil
- January 2017 "Making the Invisible Visible: Arbovirus transmission, risk,
disease and prevention in Kenya", Microbiology and
Immunology Series Universidad Federal Minas Gerais, Belo
Horizonte, Brazil
- November 2016 "Congenital Vector-Borne Diseases and Early Child
Neurodevelopmental Outcomes", Annual Meeting of the
American Society of Tropical Medicine and Hygiene
Symposium Chair, Atlanta, Georgia
- October 2016 "Making the Invisible Visible: Arbovirus transmission, risk,
disease and prevention in Kenya", World Health Interest
Group (WHIG) seminar, Case Western Reserve University,
Cleveland, Ohio
- August 2016 "Evolving Buzz on Zika and Pregnancy: An Update for
Clinicians", California Department of Health Webinar
- June 2016 "Dengue and Chikungunya Epidemiology in Kenya", Kenya
Ministry of Health Policy Meeting on Vector-Borne Disease
Threats
- June 2016 "Travel Medicine: Emerging Threats and Advice for
Travelers", ACHA Annual Meeting, San Francisco, California
- February 2016 "Tending To Sheep Or Where You Sleep: Risks For Human
Rift Valley Fever Virus Exposure And Disease", ASM
Biodefense and Emerging Diseases Research Meeting,
Arlington, Virginia
- October 2015 "Public Library of Science Writing Workshop", Chikungunya
and Dengue Project Meeting, Diani, Kenya

- March 2015 "Chikungunya and Dengue in Kenya", Kenya Medical Research Institute, Kisian, Kenya
- January 2015 "Chikungunya and Dengue in Kenya", Molecular Virology and Microbiology seminar, Baylor College of Medicine, Houston, Texas
- January 2015 "Interepidemic and Epidemic Disease Burden of Arboviruses in Kenya", Infectious Diseases & Immunity Colloquium, University of Texas Medical Branch, Galveston, Texas
- December 2014 "Antenatal and Postnatal Parasitism in Rural Coastal Kenya: Effect on Growth and Vaccine Response in Infants", Molecular Microbiology & Immunology Seminar, Oregon Health Sciences University, Portland, Oregon
- November 2014 "Chikungunya and Dengue in Grenada and the Americas: What Are We In For?", St. George's University Public Lecture, St. George's, Grenada
- October 2014 "Public Library of Science Writing Workshop", Ministry of Health Conference Seminar, Diani, Kenya
- October 2014 "Arboviral Research in Kenya", Ministry of Health Conference Seminar, Diani, Kenya
- November 2013 "Working with Arboviruses Internationally – What Does It Take?" American Committee on Arthropod-Borne Viruses Symposium, Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington, DC
- June 2013 "Important Emerging Viral Infections: Dengue and Chikungunya in Kenya", Hospital Grand Rounds, Msambweni District Hospital, Msambweni, Kenya
- February 2013 "Dual Use Research of Concern at PLoS," World Health Organization Informal Consultation on Dual Use Research of Concern Meeting, Geneva, Switzerland

- November 2012 Hot Topics In Tropical Medicine symposium speaker, "It's Gone Viral!", Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, Georgia
- December 2011 "Cultural Lessons Learned in Tropical Medicine: Pearls from the Pioneers", Annual Meeting of the American Society of Tropical Medicine and Hygiene Symposium Chair, Philadelphia, Pennsylvania
- November 2011 "State of the World's Children", Children's Hospital & Research Center Oakland 41st Annual Fall Conference, Monterey, California
- November 2011 "The Elusive Viruses You Need to Know About: West Nile Virus and Emerging Arboviral Infections", Children's Hospital & Research Center Oakland 41st Annual Fall Conference, Monterey, California
- October 2011 "The Epidemiology of Rift Valley Fever in Kenya," Northwestern Pacific Regional Center in Biodefense and Emerging Pathogens; Vaccine and Gene Therapy Institute at Oregon Health & Science University, Portland, Oregon
- September 2011 "The Effects of Parasites on Vaccine Response," World Health Interest Group Seminar, Case Western Reserve University, Cleveland, Ohio
- July 2011 "The Epidemiology of Rift Valley Fever in Kenya," Emerging Pathogens Institute, University of Gainesville, Gainesville, Florida
- May 2011 "Parasites and other Unwanted Souvenirs"; PREP Audio June 2012 Issue, Recorded in Denver, Colorado
- May 2011 "Arthropod-Borne Viruses: Emerging and Re-emerging Threats for All Countries," Pediatric Academic Societies Annual Meeting: Global Health Plenary Session, Denver, Colorado

- March 2011 "The Epidemiology of Rift Valley Fever Virus," International Livestock Research Institute, Nairobi, Kenya
- November 2010 "Epidemiology of Rift Valley Fever in Northeast Kenya," American Committee on Arthropod-Borne Viruses Symposium, Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, Georgia
- March 2010 "Redefining Arboviral Epidemiology in Kenya," Infectious Diseases & Immunity Colloquium, University of Texas Medical Branch, Galveston, Texas
- November 2009 "New Understanding of the Epidemiology of Rift Valley Fever," American Committee on Arthropod-Borne Viruses: Shope Symposium, Annual Meeting of the American Society of Tropical Medicine and Hygiene
- May 2009 "Rift Valley Fever Research Update", World Health Interest Group Conference at Case Western Reserve University
- November 2008 "Epidemiologic and Immunologic Perspectives of Rift Valley Fever", Research Guest Lecture Series, Children's Hospital of Oakland Research Institute
- November 2008 "West Nile Virus", Pediatric Resident's Lecture Series, Children's Hospital of Oakland

INVITED LECTURES- LOCAL (2011-PRESENT)

- November 2018 "Viral Hemorrhagic Fevers", Stanford Peds ID fellow course
- May 2018 "One Health, One World, Many Viruses: The Emergence and Importance of Arboviral Threats", Stanford One Health Symposium Plenary Talk
- April 2018 "Crossing Seas, Saving Lives: Careers in Global Health", Stanford Haas Center for Public Service
- December 2017 "Miscellaneous Parasite Infections", Stanford Peds ID fellow course

July 2017	"Zoonotic Infections", Stanford Peds ID fellow course
May 2017	"Zika Update for Healthcare Professionals," Hot Topics for Stanford Medicine; Webinar and Long-term web-based seminar
April 2017	"A World Gone Viral: Zika Emerges in the Americas", John Muir Pediatric Grand Rounds
April 2017	"Fever in Travelers", Stanford Peds ID fellow course
March 2017	"Making the Invisible Visible: Arbovirus transmission, risk, disease and prevention in Kenya", Discovery and Innovation in Emerging Viral Infections Course, Stanford University
January 2017	"Mosquito-Borne Disease Risk and Prevention in Kenya: Making the Invisible Visible", Annual CIGH Research Convening
November 2016	"A World Gone Viral: Arboviral Emergence in Recent Decades", Stanford Neurology Grand Rounds
November 2016	Ambassadors for Lucile Packard Children's Hospital: "A Zika virus primer"
October 2016	"Miscellaneous viruses", Stanford Peds ID fellow course
October 2016	"A World Gone Viral: Arboviral Emergence in Recent Decades", Stanford Global Health course
June 2016	Dengue and Chikungunya in Kenya: Child Health Impact and Prevention Strategies, Bass Society annual dinner
June 2016	Stanford University Infectious Disease Grand Rounds: "Making the Invisible Visible: Arbovirus transmission, risk, disease and prevention in Kenya"
May 2016	Pint of Science Palo Alto, CA: "A World Gone Viral"

- May 2016 Stanford Physician Relations LPCH Committee Meeting: "Zika and Chikungunya Virus Infections: Impact on the Fetus and Neonate"
- April 2016 Child-X Symposium, Stanford University: "Zika Virus Infection in Pregnant Women: Impact on the Fetus and Neonate"
- March 2016 Natural Capital Symposium, Stanford University, Panel on Global Environmental Change and Human Health: A multidisciplinary approach to challenge diseases of poverty
- March 2016 "A World Gone Viral: Arboviral Emergence in Recent Decades", Preparedness for the Zika Virus: A Public Health Emergency Symposium, UCSF
- February 2016 "A World Gone Viral: Zika Emerges in the Americas", Stanford University Pediatric Grand Rounds
- May 2015 "Mosquito Borne Viruses Cause Trouble in Kenya and Beyond!", California Academy of Sciences, San Francisco, California
- May 2015 "Dengue and Chikungunya Exposure and Disease In Kenyan Children", Stanford University Annual Combined Medicine-Pediatrics Infectious Diseases Research Retreat
- May 2015 "A World Gone Viral: The Emerging Arboviruses", Stanford University Pediatric Grand Rounds
- April 2015 "Chikungunya", Stanford University Hot Topics in Global Health Lecture Series
- April 2015 "The Burden of Arboviral Infection and Disease in Kenya", 6th Annual Stanford Pediatrics Research Retreat

- June 2014 "A World Gone Viral: The Emerging Arboviruses", 47th Annual Advances & Controversies in Clinical Pediatrics, UCSF Pediatric Conference
- April 2014 "Antenatal and Postnatal Parasitism in Rural Coastal Kenya: Effect on Growth and Vaccine Response in Infants", Pediatric Infectious Diseases Series, Stanford University
- February 2014 "State of the World's Children," John Muir Grand Rounds, Walnut Creek, California
- September 2013 "Influenza," Children's Hospital Research Center Oakland Resident Conference; Oakland, CA
- August 2013 "Dengue Update," John Muir Grand Rounds, Walnut Creek, California
- May 2013 "Arboviral Seroprevalence in Kenya", UCSF, Pediatric Infectious Disease Division Research Series
- February 2013 "The Elusive Viruses You Need to Know About: West Nile Virus and Emerging Arboviral Infections", UCSF, Global Pediatric Lecture Series
- July 2012 "Rift Valley Fever in Kenya," CHORI Faculty Seminar, Oakland, California
- July 2012 "Rift Valley Fever Virus Research", Pediatric Resident's Research Seminar Series, Children's Hospital of Oakland
- June 2012 "Dengue and Other Important Arboviruses," John Muir Grand Rounds, Walnut Creek, California
- June 2012 "State of the World's Children," CHRCO Grand Rounds, Oakland, California
- March 2012 "Rift Valley Fever Research in Kenya," Collaborate for Africa Monthly meeting, San Francisco, CA

- March 2012 "Rift Valley Fever Virus and Other Threats to Animal and Human Health," American Society of Microbiology Chapter Annual Meeting Plenary Lecture, Pleasanton, CA
- Feb 2012 "Need For Better Arboviral Diagnostics", Bio to Device Group; Santa Clara, CA
- June 2011 "West Nile Virus: A Pediatric Perspective", John Muir Hospital Grand Rounds, Walnut Creek, California
- May 2011 "Rift Valley Fever in Kenya", Collaborate For Africa/Children's Global Health Initiative CHORI Meeting, Oakland, California
- January 2011 "Botulism," Children's Hospital Research Center Oakland Resident Conference; Oakland, CA