

Stanford



Katharine Walter

Postdoctoral Research Fellow, Infectious Diseases

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Yale University (2017)
- Master of Science, Universite Paul Sabatier (2011)
- BA, Harvard University (2010)

STANFORD ADVISORS

- Jason Andrews, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Colonization of the tsetse fly midgut with commensal *Kosakonia cowanii* Zambiae inhibits trypanosome infection establishment.** *PLoS pathogens*
Weiss, B. L., Maltz, M. A., Vigneron, A., Wu, Y., Walter, K. S., O'Neill, M. B., Wang, J., Aksoy, S.
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- **Detection, survival and infectious potential of *Mycobacterium tuberculosis* in the environment: A review of the evidence and epidemiological implications.** *The European respiratory journal*
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- **Evaluating strategies for control of tuberculosis in prisons and prevention of spillover into communities: An observational and modeling study from Brazil.** *PLoS medicine*
Mabud, T. S., de Lourdes Delgado Alves, M., Ko, A. I., Basu, S., Walter, K. S., Cohen, T., Mathema, B., Colijn, C., Lemos, E., Croda, J., Andrews, J. R.
2019; 16 (1): e1002737
- **Identifying climate drivers of infectious disease dynamics: recent advances and challenges ahead.** *Proceedings. Biological sciences*
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- **Genomic insights into the ancient spread of Lyme disease across North America.** *Nature ecology & evolution*
Walter, K. S., Carpi, G., Caccone, A., Diuk-Wasser, M. A.
2017; 1 (10): 1569–76
- ***Babesia microti* from humans and ticks hold a genomic signature of strong population structure in the United States** *BMC GENOMICS*
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- **Vectors as Epidemiological Sentinels: Patterns of Within-Tick *Borrelia burgdorferi* Diversity** *PLOS PATHOGENS*
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2016; 12 (7)

- **Invasion of two tick-borne diseases across New England: harnessing human surveillance data to capture underlying ecological invasion processes** *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
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2016; 283 (1832)
- **Whole genome capture of vector-borne pathogens from mixed DNA samples: a case study of *Borrelia burgdorferi*** *BMC GENOMICS*
Carpi, G., Walter, K. S., Bent, S. J., Hoen, A. G., Diuk-Wasser, M., Caccone, A.
2015; 16
- **Microhabitat Partitioning of *Aedes simpsoni* (Diptera: Culicidae)** *JOURNAL OF MEDICAL ENTOMOLOGY*
Walter, K. S., Brown, J. E., Powell, J. R.
2014; 51 (3): 596-604
- **HLA Class I Subtype-Dependent Expansion of KIR3DS1(+) and KIR3DL1(+) NK Cells during Acute Human Immunodeficiency Virus Type 1 Infection** *JOURNAL OF VIROLOGY*
Alter, G., Rihn, S., Walter, K., Nolting, A., Martin, M., Rosenberg, E. S., Miller, J. S., Carrington, M., Altfeld, M.
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