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Area of Expertise

My research involves the ecology and epidemiology of vector-borne infectious diseases, and improvement of vector-borne disease surveillance and control systems. I have been closely working with local health departments to develop and implement appropriate practices to reduce human cases of vector-borne infectious diseases, including West Nile virus and Zika virus, with minimal environmental impacts of interventions. I plan to focus my research efforts on developing risk assessment models of vector-borne infectious diseases to better predict occurrences of human cases.

Qualifications

PhD in Entomology, Iowa State University
BS in Biology, Seoul National University
MS in Entomology, Seoul National University

Recent Publications

Primary care clinics can be a source of exposure to virulent *Clostridium* (now *Clostridioides*) *difficile*: An environmental screening study of hospitals and clinics in Dallas-Fort Worth region

Simecka, J. W., Fulda, K. G., Pulse, M., Lee, J. H., Vitucci, J., Nguyen, P., Taylor, P., Filipetto, F., Espinoza, A. M. & Sharma, S., 1 Aug 2019, In: PLoS ONE. 14, 8, e0220646.

An estimation of potential vector control effect of gravid mosquito trapping in fort worth, texas

Lee, J-H. & Bennett, B., 1 Jul 2016, In: Journal of Environmental Health. 79, 1, p. 14-18 5 p.

Community-acquired Legionnaires' disease in Dallas County, Texas

Ameneshoa, W., Lee, J. H. & Carlo, J. T., 1 Apr 2016, In: Journal of Environmental Health. 78, 8, p. E1-E6

Prevalence of *Borrelia burgdorferi* (spirochaetales: Spirochaetaceae), *Anaplasma phagocytophilum* (rickettsiales: Anaplasmataceae), and *Babesia microti* (piroplasmida: Babesiidae) in *Ixodes scapularis* (acari: Ixodidae) collected from recreational lands in the hudson valley region, New York State

Prusinski, M. A., Kokas, J. E., Hukey, K. T., Kogut, S. J., Lee, J. & Backenson, P. B., 1 Jan 2014, In: Journal of Medical Entomology. 51, 1, p. 226-236 11 p.

A multi-Gaussian model for predicting crawler occurrence of *Unaspis yanonensis* in citrus orchards

Kim, D. S., Choi, K. S. & Lee, J. H., 1 Oct 2010, In: Entomologia Experimentalis et Applicata. 137, 1, p. 93-101 9 p.

A potential risk assessment of a dengue outbreak in north central texas, usa (part 1 of 2): abundance and temporal variation of dengue vectors

Lee, J-H., Stahl, M., Sawlis, S., Suzuki, S. & Lee, J. H., 1 Jun 2009, In: Journal of environmental health. 71, 10, p. 24-29 6 p.

A potential risk assessment of a dengue outbreak in north central texas, usa (part 2 of 2): development of a practical prevention strategy

Lee, J. H., Stahl, M., Sawlis, S. & Suzuki, S., 1 Jun 2009, In: Journal of Environmental Health. 71, 10, p. 36-39 4 p.

Analysis of foodborne disease outbreaks for improvement of food safety programs in seoul, Republic of Korea, from 2002 to 2006

Lee, J. H., Lee, J-H., Kim, M. S. & Park, S. G., 1 Mar 2009, In: Journal of environmental health. 71, 7, p. 51-55 5 p.

Post-diapause development and multimodal oviposition activity of arrowhead scale, *Unaspis yanonensis* (Homoptera: Diaspididae) and its modeling

Kim, D. S., Seo, Y. D. & Lee, J. H., 2008, In: Applied Entomology and Zoology. 43, 4, p. 553-562 10 p.

Host-feeding patterns of *Culex* mosquitoes in relation to trap habitat

Patrican, L. A., Hackett, L. E., Briggs, J. E., McGowan, J. W., Unnasch, T. R. & Lee, J. H., Dec 2007, In: Emerging Infectious Diseases. 13, 12, p. 1921-1923 3 p.

Sponsored Projects

Assessment of the Current Radiological Monitoring Capacity

Sterling, D. & Lee, J.

TX Department of State Health Services

1/06/10 → 31/07/11

Clostridium Difficile (C-Diff) Environmental Research Project

Fulda, K., Simecka, J., Lee, J. & Filipetto, F.

Dallas-Fort Worth Hospital Council

9/05/14 → 9/12/14

West Nile Virus Surveillance

Lee, J.

City of Fort Worth

21/06/19 → 20/06/24

West Nile Virus Surveillance and Response Partnership Program between City of Fort Worth and UNTHSC

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City of Fort Worth

18/06/14 → 17/06/16

West Nile Virus Surveillance and Response Partnership Program between City of Fort Worth and UNTHSC

Lee, J.

City of Fort Worth

18/06/16 → 17/06/19