

Curriculum Vitae

Name: Joon-Hak Lee, Ph.D

A. Education

- Iowa State University, Ph.D, 1994-1998, Department of Entomology (Concentration: Medical Entomology), College of Agriculture
Doctoral Thesis: Studies on vector competence of *Culex (Cx.) tarsalis* Coq. from an epidemic/epizootic area in Iowa for an enzootic strain of western equine encephalomyelitis (WEE- 7738) virus and vertical transmission of the WEE virus in *Aedes (Ae.) trivittatus* (Coq.)
- University of California-Riverside, 1993-1994, Department of Entomology (Concentration: Chemical Ecology and Medical Entomology), Transferred to Iowa State University in 1994
- Seoul National University, Korea, M.S., 1988-1990, Department of Entomology, College of Agriculture
M.S. Thesis: Biological control of mosquito larvae (*Anopheles, Culex*) by native fishes (*Aplocheilichthys, Aphocypris*) and Herbivorous *Tilapia*
- Seoul National University, Korea, B.S., 1983-1988, Department of Agricultural Biology, College of Agriculture

B. Professional experience

Associate Professor

Sept. 2015-Present

Assistant Professor

Dec. 2004 – Aug. 2015

Department of Biostatistics and Epidemiology (2017-Present)

Department of Environmental and Occupational Health Sciences (2014-2016)

School of Public Health

University of North Texas-Health Science Center, Fort Worth, Texas

- MPH Program Director:
 - Taught 5 SPH courses per year
 - Advised and Mentored all departmental MPH students on academic progress and career development, and placement of internship
 - Served Master's Admission Committee, and Curriculum Committee (2011-14)
 - Practice Committee (2011-2013)
 - Represented the department at the student recruitment events
- Have developed and run a partnership program for the West Nile virus surveillance and response with the City of Fort Worth since 2013
 - Employed and trained 5-6 MPH students each year
 - More than 20 times media coverage as of Sept. 5, 2014
 - 3 presentations at the State or National conferences from 2013 work alone

- Rapid and appropriate responses based on the weekly estimation of the exposure risk to West Nile virus

Research Scientist III and Medical Entomologist March 2001 – Nov. 2004

Arthropod-Borne Disease Program, Bureau of Communicable Disease,
Division of Epidemiology
New York State Dept. of Health, Albany, New York

- Assessed risk of exposure to and investigated outbreaks of Arthropod-Borne and Zoonotic Diseases with 3-5 subordinate research scientists
- Provided Consultation and hands-on training for local health departments on West Nile Virus Surveillance and Mosquito Control
- Set up and ran a new laboratory with molecular ecology/epidemiology capability in Arthropod-Borne Disease Program, Bureau of Communicable Diseases
- Tenured at March 2004

Post-Doctoral Fellow Sept. 2000 – Feb. 2001

Entomology Branch/ Dept. of Parasitic Diseases (ENT/DPD)
National Center for Infectious Diseases (NCID)
Center for Disease Control (CDC), Atlanta, GA

- To Develop a Malaria Transmission Blocking Recombinant Antibody against *An. gambiae* midgut protein using phage display in order to generate a transgenic *An. gambiae* expressing the developed antibody
- To conduct sequencing and typing of *Pneumocystis carinii* in a Molecular Epidemiology study

Post-Doctoral Fellow March, 1999 – Aug. 2000

Division of Geographic Medicine, Dept of Medicine
University of Alabama, Birmingham, AL

- Coordinated and Conducted a West Nile Virus Surveillance in Alabama
- Developed a PCR-Heteroduplex assay for Avian Bloodmeal Identification as a Tool to Elucidate Ecology of Eastern Equine Encephalomyelitis Virus in South Eastern USA and made a significant contribution to mentor's acquisition of NIH RO1 grant.
- Developed a Multiplex RT-PCR for 3 sympatric Arboviruses in South Eastern USA and made a significant increase of testing efficiency (cost saving)
- Conducted a PCR-based Arbovirus Surveillance in Tennessee Valley Authority Regions
- Conducted a preliminary investigation on Sources of *Pneumocyst carinii* Infection

Graduate Research/Teaching Assistant Sept. 1994 – Dec. 1998

Dept. of Entomology
Iowa State University, Ames, IA

- Coordinated and conducted mosquito collections and preparations for Arbovirus isolations in Iowa

- Performed a Field Evaluation of an Insecticide, Anvil (2+2)[®] Against Field Collected *Cx. pipiens* and generated a report to the company
- Conducted a Vector Competence study of *Cx. tarsalis* for a WEE virus (WEE-7738)
- Studied on Effect of WEE Infection on Vectorial Capacities of *Culex tarsalis*
- Performed a Laboratory Study on Transovarial Transmission of a WEE virus (WEE-7738) in *Aedes trivittatus* as an Overwintering Mechanism
- Examined abundance and species composition of *Culex pipiens*-like species by An Ovitrap
- Conducted Tick collections and identifications for Lyme disease Surveillance in Iowa
- Conducted a Genetic Analysis of the Nucleocapsid Protein of Porcine Reproductive and Respiratory Syndrome Virus Isolates
- Designed and conducted Biosafety level 3 experiments at the animal quarantine facility, College of Veterinary Medicine, Iowa State University

Graduate Research Assistant

Jan. 1994 - June, 1994

Dept. of Entomology

University of California, Riverside, CA

- Conducted a Preliminary study on attractiveness of extracts from Bermuda grass infusion to *Cx. quinquefasciatus*

Medical Entomologist/ a member of Disease Ecology Team

1990- 1993

United States Army Medical Research Unit (USAMRU), Seoul, Korea

- Conducted a Serosurvey on Hemorrhagic fever with Renal Syndrome (HFRS) and Tsutsugamushi Disease in *Apodemus agrarius* (Field Stripe Mouse) populations in Korea
- Performed a field study on Ecology of HFRS and Tsutsugamushi disease associated with *Apodemus agrarius* (field-stripe mouse) population in Korea (Marking-Recapture study)
- Designed and ran a study on Incrimination of Vectors of HFRS and Tsutsugamushi disease in Korea
- Studied on Overwintering Mechanism of Japanese Encephalitis Virus (a flavivirus like WNV and SLE) in Korea
- Identified Ectoparasites of Rodents in Korea
- Studied on Biology and their life cycle of *Leptotrombidium pallidum* (a common chigger mite in Korea)
- Trained and conducted in the Biosafety level 3 facility of US Army Medical Research Unit-Korea:
 - Cultured Hanta virus and Japanese Encephalitis virus culture in Vero and C6/36 cell lines
 - Attempted JE virus isolation using suckling mice
 - Observed potential behavior changes of Hantavirus infected ICR mice and field-caught reservoir mice

Graduate Research Assistant

1988-1990

Dept. of Agricultural Biology (Major: Entomology)

College of Agriculture

Seoul National University, Seoul, Korea

- Evaluated effectiveness of Native fishes for Biological control of mosquito larvae in rice paddies of Korea
- Developed an Integrated control strategy of mosquito larvae in rice paddies of Korea

C. Honors and Awards

- Gamma Sigma Delta-Honor Society of Agriculture in ISU chapter 1997
- Outstanding Faculty Advisor chosen by the Students of School of Public Health, University of North Texas-Health Science Center In 2014
- Ten Year Service Award, University of North Texas-Health Science Center
- Delta Omega faculty-Honor Society of the UNTHSC School of Public Health-2016

D. Professional Societies

Memberships

- National Environmental Health Association since 2008
- Entomological Society of America (ESA) since 1997
- American Society of Tropical Medicine and Hygiene since 2001
- American Mosquito Control Association from 1997—1999
- Society of Vector Ecology in 1994--1995
- Texas Mosquito Control Association since 2005

E. Teaching Experience

1. UNTHSC- -School of Public Health

a. LECTURES AND COURSES

- **Evaluation and Control of Biological and Infectious Agents (EOHS 5310) (Course Director and Instructor)**
Fall 2009-Present (Dept. required course offered in every fall semester)
- **Water and Public Health (EOHS 5324) (Course director and Instructor)**
2010-Present (Elective course offered in every spring semester)
- **Texas Border Health Issues (EOHS 5320) (Course Director and Instructor)**
2012-Present (Elective course offered in every spring semester)
- Environmental Health (EOHS 5300) (Course Director and Instructor)
Summer 2012, Fall 2012, Spring 2013 (SPH core course offered in every semester)
 - ✓ Waived by 30% salary recovery from the WNV surveillance and Response project since 2014 fall semester
 - ✓ Teaching quality was proven by the students' performance in the CPH exam: score and passing rate was at or above the national average in 2014
- Genomics and Public Health (EOHS 6324) (Course Director and Instructor)

2010-2011 (A doctoral level elective course offered in spring semester and was converted from the MPH level course, Introduction to Genomics and Public Health)

- Intro to Genomics and Public Health (ENVR 5324) (Course Director and Instructor)

2006-2009 (an elective course offered once a year and from 2010, the precursor to Genomics and Public Health, EOHS 6324)

- Environmental Health Microbiology (ENVR 5310) (Course Director and Instructor)

2005-2008 (a department required course offered in every fall semester until this course was merged with Arthropods and Public Health to become *Evaluation and Control of Biological and Infectious Agents*, EOHS 5310)

- Arthropods and Public Health (ENVR 5370) (Course Director and Instructor)

2005-2008 (an elective course offered in every spring semester except 2005 when it was offered in summer)

- Environmental Health Determinants (ENVR 6100) (Course director and an Instructor of 4) Fall 2007, a DrPH core course

- Current topics in Public Health (SPH 6150) (Guest Lecture)

Spring 2006

- Environmental Health (ENVR 5300) (Guest Lecture)

Spring and Fall, 2005; Spring, Summer, and Fall 2006, Spring and Summer 2008

b. SUPERVISION, MENTORING, AND ADVISING

(The department had had only MPH program until 2010. Eligibility for mentoring PhD students was approved by the Department Chair in 2014.)

i. Major Professor/ Committee member (MPH Student) for thesis

- Major Professor (4 students)/ Committee member (2 students)

ii. Advising

Since 2005, I have advised and mentored over 100 department MPH students.

iii. Visiting scientists

JIBHO LEE, DVM, MS (Seoul Metropolitan Government Environmental Public Health Institute), Seoul, Korea

F. Service

1. UNTHSC, SPH, and EOHS

UNTHSC (Institution)

- Biosafety Committee (Aug. 2009-Aug. 2013)
- Faculty Senate (Aug. 2010-Dec. 2012), (Jan. 2016—Aug. 2017)
- Intellectual Property Committee (Sept. 2007—June 2009)

SPH (School)

- Promotion and Tenure Committee (Aug. 2016—Present)
- Masters Admission Committee (Aug. 2011—Aug. 2014)
 - ✓ Review MPH student applications and departmental recommendation
 - ✓ Review curriculum and academic policy changes
 - ✓ Comprehensive Exam administration
- Scholarship Committee (2013--2016)
- Catalog ad hoc committee (Spring semester, 2014)
- Practice Committee (2009--2013)
- Comprehensive Exam Committee (Mar. 2009—July 2011)
- Curriculum Committee (Sept. 2005—July 2007) (Aug. 2011—Aug. 2014)
- Planning and Evaluation Committee (Jan. 2005—Aug. 2005)
- Student recruiter: Attending Disease Detective Conference, Austin, TX to meet prospective public health students (4/01/08-4/03/08)

EOHS (Department)

- MPH Program Director (Aug. 2011—Aug. 2014)
 - ✓ MPH application review and admission recommendation
 - ✓ Advised and mentored academic and career development of all department MPH students (May 2012-Aug. 2014)
 - ✓ Identifying students' practicum sites and placing practicum students (2011-2013)
 - ✓ Advising and evaluating MPH students' practicum performance
 - ✓ Representing the department at the SPH student recruiting activities (i.e., Preview Day)
- Comprehensive Exam Coordinator (2009-2015)
 - Administering the department comprehensive exam and report the results to the students and the school
- Faculty Search Committee (Chair: 2006, 2010; Member: 2005)
 - Search Committee Chair for 3 Assistant Professors
 - Search committee member for 1 dept. Chair and 1 Associate Professor
- Dept. seminar coordinator (Aug. 2007- May 2008)

UNT System

- Member of UNT-Denton Biological & Environmental Engineering Department Planning committee (Aug. 2006—March 2007)

2. PROFESSIONAL SERVICES

- **ASPPH Objective Reviewer: The ASPPH/CDC Fellowship (2014-2015)**
- ASPH Objective Reviewer: The ASPH/CDC Allan Rosenfield Global Health Fellowship Program (2008-2012)
- National Board of Osteopathic Medicine Exam Question Writer and Reviewer: (Health Promotion and Disease Prevention), Chicago, IL (2006-2008)
- Member of Environmental and Occupational Health Planning Committee for Summer Institute (2006)

3. COMMUNITY SERVICES

- Consultant: Dallas County (TX) Mosquito Surveillance and Control (2005-2007)
- Consultant: City of Plano (TX) Mosquito Surveillance and Control (2005, Nov.)
- A member of Advisory Board on Communicable Diseases for the City of Fort Worth (Oct. 2014-Feb. 2015): was invited for Ebola response plan of the city of Fort Worth.
- Director: City of Fort Worth and UNTHSC Partnership West Nile virus surveillance and Response Program (2013-Present)
 - Public Recognition (Interviews and Media attention)
 - UNTHSC News Release on June 26, 2013:
“Leading the charge against West Nile Virus”
 - ASPH Friday letter on June 28, 2013:
“North Texas Leads the charge against 2013 West Nile Virus”
 - BioNewsTexas-July 16, 2013:
“Potential West Nile Virus outbreak in Dallas Spurs Containment Partnership with UNT Health Science Center”
 - Dallas Morning News on Aug. 20, 2013:
“Grad students track pesky mosquitoes for city of Fort Worth”
 - Telemundo (Hispanic TV Station) in July 2013:
“Fort Worth combate el Virus del Nilo por medio de la ciencia”
<http://www.telemundodallas.com/noticias/Virus-del-Nilo-217038861.html?vid=a>
 - The business journal on June 4, 2014:
“City of Fort Worth, UNT Health Science Center team up on West Nile virus prevention”
http://www.bizjournals.com/prnewswire/press_releases/2014/06/04/DC42333
 - WFAA-TV (ABC) DALLAS-FORT WORTH on June 4, 2014: “[UNT Health Science Center, Fort Worth team up to tackle West Nile virus](#)”
 - CBS 11 (KTVT-TV) DALLAS-FORT WORTH on June 4, 2014: “[Research may predict West Nile virus trends](#)”
 - NBC 5 (KXAS-TV) DALLAS-FORT WORTH on June 4, 2014:
“[UNT Health Science Center, Fort Worth work to fight West Nile virus](#)”
In the fight against West Nile virus, the setup of a mosquito trap is a daily occurrence across Fort Worth. There are 50 locations across the city that are regularly trapped by **Dr. Joon Lee**, with the **University of North Texas Health Science Center**, and his students.
 - FOX 4 (KDFW-TV) DALLAS-FORT WORTH on June 4, 2014: “City of Fort Worth teams up with UNT Health Science Center on West Nile virus”

- FORT WORTH BUSINESS PRESS on June 4, 2014:
[“Mosquito-surveillance partnership between Fort Worth, UNTHSC renewed”](#)
 The city of Fort Worth and **the University of North Texas Health Science Center** have renewed their mosquito-surveillance partnership, part of an effort blending hard science with community outreach to prevent the spread of West Nile virus.
- Radio coverage: Both WBAP-AM and KRLD-AM ran stories during evening drive time Wednesday. No links available.
- UNTHSC:
<http://www.hsc.unt.edu/news/newsrelease.cfm?ID=1437#.U5YdIC-gMkc>
- Dallas Observer on June 9, 2014:
http://blogs.dallasobserver.com/unfairpark/2014/06/damn_drought_expect_bigger_and_meaner_mesquitoses.php
- Star-Telegram on June 18, 2014: “West Nile season is underway in Tarrant County” <http://www.star-telegram.com/2014/06/18/5910778/west-nile-season-is-underway.html>
- Star-Telegram on July 25, 2014: “The West Nile debate: To spray or not to spray?”
<http://www.star-telegram.com/2014/07/25/5996575/the-west-nile-debate-to-spray.html?rh=1>
- Clostridium difficile study at UNTHSC website on July 25, 2014
<http://www.hsc.unt.edu/news/newsrelease.cfm?ID=1472>
- NBCDFW-“Cities Opt Not to Spray Despite Results of West Nile Virus Tests” on July 30, 2014
<http://www.nbcdfw.com/news/local/Cities-Opt-Not-to-Spray-Despite-West-Nile-Results-269152151.html>
- **NBCDFW-“Fort Worth Still Without West Nile Positive Mosquitoes” On Aug. 21, 2014**
<http://www.nbcdfw.com/news/health/Fort-Worth-Still-Without-West-Nile-Positive-Mosquitos-272070921.html>
- Star-Telegram on Sept. 3, 2014: “Tarrant, Dallas officials take different approaches to Chikungunya” <http://www.star-telegram.com/2014/09/03/6086255/tarrant-dallas-officials-take.html>
- Interview with Dallas Korean Network Radio on June 3, 2015: “West Nile virus” https://drive.google.com/file/d/0B3Uf4Rf-Lfh_dHdpTlpNX1hkbHM/view?usp=sharing (In Korean)

- UNTHSC main website on June 4, 2015
 - http://www.hsc.unt.edu/news/newsrelease.cfm?ID=1653#.VXDBekZd_aU
 - http://web.unthsc.edu/news/article/187/city_of_fort_worth_teams_again_with_unthsc_to_attack_west_nile_virus
- WFAA “Officials hope West Nile-prevention offsets big mosquito season” on June 24, 2015
<http://www.wfaa.com/story/news/local/tarrant-county/2015/06/24/researchers-conduct-mosquito-surveillance/29236091/>
- NBC-DFW “Fort Worth May Spray for Mosquitoes for First Time Since 2012” on July 30, 2015
<http://www.nbcdfw.com/news/local/Fort-Worth-May-Spray-for-Mosquitoes-for-First-Time-Since-2012-319711561.html/>
- CBS (National Network)
 - KTVN-TV (CBS) Reno, Nev.: **Protecting communities from West Nile Virus** on July 31, 2015
 - KEYC-TV (CBS) Mankato, Minn.: **Texas on the front lines of West Nile fight** on Aug. 3, 2015
 - WCAX-TV (CBS) Burlington, Vt.: **Monitoring mosquitoes for West Nile virus** on July 31, 201
- Interview with Star-Telegram on Jan. 11, 2016
 - “Zika is latest mosquito-borne virus knocking on Texas’ door”
<http://www.star-telegram.com/news/local/community/fort-worth/article54023050.html>
- UNTHSC main website on Jan. 27, 2016
 - <https://www.unthsc.edu/newsroom/story/zika-virus-would-require-different-approach-than-west-nile/>
- Interview on Zika virus with Dallas Korean Network (Radio Station) on Feb. 4, 2016
 - https://drive.google.com/file/d/0B3Uf4Rf-Lfh_eWFpUmpCeTRSNTA/view?usp=sharing
- Talk on Zika virus at the meeting of UNTHSC Community Garden Members on Feb. 8, 2016
- Interview with Star Telegram on Apr. 28, 2016
 - “What North Texas storms mean for Mayfest, mosquitoes, pollen and more” <http://www.star-telegram.com/news/local/community/fort-worth/article74477542.html>

- Interview with Star Telegram on June 13, 2016
 - “Tarrant County wary of West Nile, Zika as mosquito season begins”
<http://www.startelegram.com/news/local/community/fort-worth/article83504432.html>
- Interview with NBCDFW on Nov. 11, 2016
 - “North Texas Could See Warmer Winter”
<http://www.nbcdfw.com/news/local/Forecasters-North-Texas-Could-See-Warmer-Winter-400804691.html>
- UNTHSC Newsroom on Dec. 1, 2016
 - “Pest Control-Watching for West Nile virus”
<http://www.unthsc.edu/newsroom/story/pest-control/>
- Interview with Start Telegram on March 3, 2017
 - “Weeds, wildflowers and West Nile could flourish after DFW’s warm winter”
<http://www.star-telegram.com/news/local/community/fort-worth/article136265138.html>
- Interview with Start Telegram on April 21, 2017
 - “West Nile arrives early in North Texas, but its bite remains unclear”
<http://www.star-telegram.com/news/local/community/fort-worth/article146000809.html>
- **Outreach**
 - Targeted Public Education (Senior Citizens)
 - Mosquitoes, Environment, and Risk of West Nile virus exposure at the Frisco Lake Golf Club, Frisco, Texas (June 26, 2013)
 - Mosquitoes, Environment, and Diseases at Fort Worth, Texas—The Stayton on May 13, 2015

G. Professional Activities

1. JOURNAL REVIEWERS

- 2017: International Journal of Environmental Research and Public Health (June 2017) “Quick Estimation of Indoor Suspended culturable bacteria concentration: An Application of Machine Learning”
- 2017: Journal of Preventive Medicine and Public Health #20170062 (May 2017) “The importance for monitoring chlorine residual from potable water: A single case investigation from a newly built apartment”
- 2013: Journal of Veterinary Science & Medical Diagnosis #JVSMD-13-36 (March 16, 2013)
 - “Serosurvey of Non-human Primates for Yellow Fever and Dengue Fever Virus Infections from the Kedougou Forest Gallery of Southeastern Senegal”

- 2010: BMC Public Health “Heather Rybasack-Smith, R S Sharma and Davidson H Hamer Dengue control in India: towards a comprehensive control strategy”
- 2009: Journal of Vector Ecology #JVE-RA-Aug. 09-001 entitled “Outbreak of dengue in Gurgaon district of Haryana state in India during 2008”
- 2007: Emerging Infectious Disease # EID-07-0442 entitled- "PREVALENCE OF WEST NILE VIRUS INFECTION AND RISK FACTORS FOR INFECTION AMONG HOMELESS PEOPLE LIVING IN HOUSTON, TEXAS"
- 2006: Emerging Infectious Disease: # EID-06-0164 entitled "Human WNV infection in the Ebro delta, Catalonia, Spain"
- 2006: Review NEHA proposed Textbook for publication “*Case Studies in Community and Environmental Health: An Introduction for Aficionados*”

2. GRANT REVIEWER

UNT-HSC Interdisciplinary Intramural grant (Jan. 2007)

3. CONSULTANT

- *Consultant of Dallas County (TX) Mosquito Surveillance and Control (2005-2007)
 - *Consultant of City of Plano, TX Mosquito Surveillance and Control (2005, Nov.)
- * NOT PAID CONSULTATION (SEE ABOVE COMMUNITY SERVICES)

H. Scholarly Activity

1. GRANTS AND CONTRACTS – Funded

- “West Nile virus surveillance and Response” City of Fort Worth” (2013-Present)
An average of 50% FTE
- “Environmental Research Project for *Clostridium difficile*” Dallas Fort Worth Hospital Council (05/10/14-12/09/14): UNTHSC Contract No. (Project ID: RF7055), \$211,589.00 ,**15% FTE**, Co-PI (with Dr. Kim Fulda as PI)
- “Assessment of the current radiological monitoring capacity” TX DSHS, (6/01/10-7/01/11), \$62,986, **10% FTE**, (Co-I with PI of Dr. David Sterling)

4. INVITED SEMINAR

a. Local and state

- “*Lyme Disease in Texas*” Texas Public Health Association: Health People 2005, Irving, TX, Sept. 2005 (Certification of Appreciation by TPHA)
- “*Arboviral diseases in Texas*” Texas Environmental Health Association, Richardson, TX, May 2006
- “*From West Nile Virus To Arboviruses*” Videoconference in Public Health Grand Round sponsored by Texas Public Health Training Center, June 2006
- “Zika virus is coming!” in the 2016 Primary Care Summit, UNTHSC, Fort Worth, TX, on April 22, 2016

- “West Nile virus surveillance and response: the current practices and challenges” at Texas Public Health Association 93rd Annual Education Conference, Fort Worth, Texas on March 27, 2017

b. National

- “West Nile virus in North Central TX: Risk of Infection and Discussions on the current Surveillance System” National Environmental Health Association, San Antonio, TX, June 2006 (Certification of appreciation by NEHA)

c. International

- “Response of the US public health system to West Nile virus emergence”: Seoul National University, School of agricultural life sciences, Division of Entomology, Korea (Dec. 2006)
- “Response of the US public health system to West Nile virus emergence” Andong National University, School of Agriculture and Life sciences, Division of Entomology, Korea (Dec. 2006)
- “Impacts of Arthropods on Human Health” Cheju National University, School of Medicine, Jeju City, Korea (July 3, 2008)
- “IPM and Sustainable Vector Control Program, and Jeju Island, Korea” Institute of Environment and Natural resources, Jeju Province, Korea: July 4, 2008
- “An Application of Entomology in Urban Social Environment” Andong National University, School of Agriculture and Life sciences, Division of Entomology, Korea on Mar. 22, 2016
- “An Integrative West Nile virus vector management: Case of Fort Worth, Texas, USA” Chungbuk National University, College of Agriculture, Life and Environment, Korea on March 23, 2016
- “An Approach in the West Nile virus Surveillance and Response: A case of University of North Texas-Health Science Center and City of Fort Worth, Texas” Korean Centers for Disease Control on March 24, 2016

5. PUBLICATION

a. Papers published in Peer Review journal (Impact factor in 2013-14 from www.citefactor.org)

*Corresponding Author/ **Student, trainee or subordinate

- Yu, H. S. and **J.-H. Lee**. 1989. Biological control of Malaria vector (*Anopheles sinensis*) by combined use of larvivorous fish (*Aplocheilus latipes*) and herbivorous fish (*Tilapia mossambicus niloticus*) in rice paddies of Korea. Korean Journal of Applied Entomology 28(4): 229-236.
- Yang, L., K.-J. Yoon, J. J. Zimmerman, **J.-H. Lee**, Y. Li, M. L. Frey, K. M. Harmon, and K. B. Platt. 1999. Antigenic and Genetic Variations of the 15kD Nucleocapsid Protein of porcine reproductive and Respiratory Syndrome Virus Isolates. Archives of Virology 144(3): 525--46. **(IF: 2.282)**
- **Joon-Hak Lee** and Wayne A. Rowley. 2000. The abundance and seasonal distribution of *Culex* (Diptera: Culicidae) mosquitoes in Iowa during 1995--1997. Journal of the American Mosquito Control Association 16(4): 275--278. **(IF: 0.827)**

- **Joon-Hak Lee***, Wayne A. Rowley, and Kenneth B. Platt. 2000. Vector Competence of *Culex tarsalis* (Diptera: Culicidae) from Iowa for a sympatric strain of Western Equine Encephalomyelitis (WEE-7738) Virus. *Journal of Medical Entomology* 37(1): 194--197. (IF: 1.815)
- **Joon-Hak Lee***, Wayne A. Rowley, and Kenneth B. Platt. 2000. Longevity and Spontaneous Flight Activity of *Culex tarsalis* (Diptera: Culicidae) Infected with Western Equine Encephalomyelitis Virus. *Journal of Medical Entomology* 37(1): 187--193. (IF: 1.815)
- **Joon-Hak Lee**, Ken Tennessen, Bruce G. Lilley, and Thomas R. Unnasch. 2002. Simultaneous detection of three mosquito-borne encephalitis viruses (eastern equine, La Crosse, and St. Louis) with a single-tube multiplex reverse transcriptase polymerase chain reaction assay. *Journal of the American Mosquito Control Association* 18(1): 26--31. (IF: 0.827)
- Nancy Maher, H. Kenneth Dillon, Abeer Awooda, **Joon Hak Lee**, Sten H. Vermund, and Thomas R. Unnasch. 2002. A Comparison of two Surface Sample Collection Devices for Use in Polymerase Chain Reaction Based Detection of *Pneumocystis carinii* in House Dust. *Journal of Occupational and Environmental Hygiene* 17(6): 416--423. (IF: 1.207)
(<http://journalsonline.tandf.co.uk/media/6cc6l5xgrmctyvt7cqwy/contributions/p/5/v/p/5vpjktfv908lxpd.pdf>)
- **Joon Hak Lee**, Hassan Hassan, Geoff Hill, Eddie W. Cupp, Tarig B. Higazi, Carl J. Mitchell, Marvin S. Godesy, Jr., and Thomas R. Unnasch. 2002. Identification of Mosquito Avian-Derived Blood Meals by Polymerase Chain Reaction-Heteroduplex Analysis. *Journal of American Tropical Medicine and Hygiene* 66(5): 599--604. (<http://www.ajtmh.org/cgi/reprint/66/5/599>) (IF: 2.736)
- **Joon-Hak Lee*** and John E. Kokas**. 2004. Evaluation Attractiveness of Two Oviposition Attractants to Primary West Nile Virus Vectors, *Culex* mosquitoes in New York State: Kentucky Bluegrass (*Poa pratensis* L.) Lawn Sod Infusion and A commercial Rabbit Chow Infusion. *Journal of the American Mosquito Control Association* 20(3): 248--253. (IF: 0.827)
- John E. Kokas** and **Joon-Hak Lee***. 2004. *Toxorhynchites rutilus*: A new occurrence in Upstate New York. *Journal of the American Mosquito Control Association* 20(2): 199—200. (IF: 0.827)
- John E. Kokas** and **Joon-Hak Lee***. 2005. A new finding of *Ae. thibaulti* in NY. *Journal of the American Mosquito Control Association* 21(1): 100-101. (IF: 0.827)
- Sarah J. Kogut**, Charles Thill, Melissa A. Prusinski**, **Joon-Hak Lee***, P. Bryon Backenson, James Coleman, Madhu Anand, Dennis J. White. 2005. The First Evidence of Local Transmission of *Babesia Microti* in Upstate New York. *Emerging Infectious Disease* 11(3): 476--478. (IF: 7.327)
(<http://www.cdc.gov/ncidod/EID/vol11no03/04-0599.htm>)
- Charles Thill, P. Bryon Backenson, Melissa A. Prusinski**, Sarah J. Kogut**, **Joon-Hak Lee**, and James L. Coleman. 2005. Detection of *Babesia microti* DNA in *Ixodes scapularis* (Acari: Ixodidae) by Use of Chelex 100 Resin and the

Polymerase Chain Reaction. *Journal of Medical Entomology* 43 (4): 694-696. (IF: 1.815)

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- **Joon-Hak Lee***, Matt Stahl**, Scott Sawlis, Sumi Suzuki, and Jib Ho LEE**. 2009. A Potential Risk Assessment of a Dengue Outbreak in North Central Texas, USA: Part I. Abundance and Temporal Variation of Dengue Vectors, *Aedes (Ae.) aegypti* and *Ae. albopictus*. *Journal of Environmental Health* 71(10):24-29. (<http://www.ncbi.nlm.nih.gov/pubmed/19537644>) (IF: 0.893)
- **Joon-Hak Lee***, Matt Stahl**, Scott Sawlis, and Sumi Suzuki. 2009. A Potential Risk Assessment of a Dengue Outbreak in North Central Texas, USA: Part II. Development of a practical prevention strategy. *Journal of Environmental Health* 71 (10): 36-39. (<http://www.ncbi.nlm.nih.gov/pubmed/19537645>) (IF: 0.893)
- Dong-Soon Kim, Kyung San Choi, and **Joon-Hak Lee**, 2010. A multi-Gaussian model for predicting crawler occurrence of *Unaspis yanonensis* in citrus orchards. *Entomologia Experimentalis et Applicata* 137:93-101. (IF: 1.711)
- Melissa Prusinski, John Kokas, Kathleen Hukey, Sarah Kogut, **Joon-Hak Lee**, and Bryon Backenson. 2014. Prevalence of *Borrelia burgdorferi*, *Anaplasma phagocytophilum*, and *Babesia microti* in *Ixodes scapularis* (Acari: Ixodidae) Collected from Recreational Lands in the Hudson Valley Region, New York State. *Journal of Medical Entomology* 51(1): 226-236. (PMID: 24605473) (IF: 1.815)
- Woldu Ameneshoa**, **Joon-Hak Lee***, and John T. Carlo. 2016. Community acquired Legionnaires' disease in Dallas County, Texas. *Journal of Environmental Health* 78(8): E1-6.
- **Joon-hak Lee***, Brandon Bennett, and Elmer DePaula. 2016. Estimation of potential vector control effect of gravid mosquito trapping in City of Fort Worth, Texas, USA. *Journal of Environmental Health* 79(1):14-19.

b. Abstract/ Presentation

* Student, Trainee, or subordinate

- **Joon-Hak Lee** and Hyo-Sok Yu: "Biological control of Malaria vector (*Anopheles sinensis*) by combined use of larvivorous fishes and herbivorous fish, *Tilapia* sp. in rice paddies of Korea" Oral presentation at Korean Entomological Society (1989)
- **Joon-Hak Lee**, William Jany, and Wayne Rowley.: "Evaluation of the efficacy of ANVIL (2+2)® and a mixture of ANVIL (2+2)® and PYRETHRINS ULV 15-VS®, a natural Pyrethrin product against caged *Culex pipiens pipiens* L." Poster Presentation at American Mosquito Control Association (Mar. 1998)
- **Joon-Hak Lee**, Willam Jany, and Wayne Rowley: "Field studies of the Efficacy of ANVIL (2+2)® and A mixture of ANVIL (2+2)® with PYRETHRINS ULV 15-VS® or Piperonyl Butoxide (PBO) against caged *Culex pipiens pipiens* L." Poster Presentation at American Mosquito Control Association (Mar. 1999)
- **Joon-Hak Lee** and Thomas Unnasch: "Avian Bloodmeal Identification by PCR-Heteroduplex analysis" Poster Presentation at annual meeting of Entomological Society of America in Atlanta, GA (Dec. 1999)
- Matt Stahl*, **Joon-Hak Lee**, Scott Sawlis, Jibho Lee*, and Zhang Yi: "Abundance and Temporal Distribution of Dengue Vectors, and Their Associations with Geographic and Socioeconomic Factors in North-central Texas. Research Appreciation Day, University of North Texas-Health Science Center (Mar. 2007)
- Matt Stahl*, **Joon-Hak Lee**, Scott Sawlis, Jibho Lee*, and Sumi Suzuki: "Abundance and Temporal Distribution of Dengue Vectors, and Their Associations with Geographic and Socioeconomic Factors in North-central Texas. Texas Mosquito Control Association, South Padre Island, TX (Nov. 2007)
- **Joon-Hak Lee**, Matt Stahl*, Scott Sawlis, and Sumi Suzuki: "Dengue Vectors, Environmental Factors, and Potential Source of Infection in North Central Texas" Oral presentation at 56th Annual Meeting of the Southwestern Branch of the Entomological Society of America in Fort Worth, TX (Feb. 2008)
- Benjamin Cruz*, **Joon-Hak Lee**, and Environmental Quality Management of City of Denton: "Seasonal Variation of Water Quality Indicators and their Association with Climate Factors in North Central Texas" Research Appreciation Day, University of North Texas-Health Science Center, Fort Worth, TX (March 2009).
- Kirtigandhi Salwe*, Shrawan Kumar, Donald Murphey, Joyce Hood, **Joon-Hak Lee**: "Non-Fatal Occupational Injury Rates in the Housekeeping Staff of a Health Care Facility" 4th Annual Texas conference on Health Disparity (May 28-29, 2009)
- **Joon-Hak Lee**, Guy Dixon, Scott Sawlis: "QUANTITATIVE RISK ASSESSMENT OF WESTNILE VIRUS INFECTION IN NORTH CENTRAL TEXAS" A poster presentation at the Joint Conference of the 59th Annual James H. Steele Conference on Diseases in Nature Transmissible to Man and the 64th International Conference on Diseases in Nature Communicable to Man, Fort Worth, TX (June 2-5, 2009)
- Benjamin Cruz*, **Joon-Hak Lee**, and Environmental Quality Management of City of Denton: "Seasonal Variation of Water Quality Indicators and their Association with Climate Factors in North Central Texas" 137th conference of American Public Health Association, Philadelphia, PA (Nov. 2009)

- Kirtigandah Salwe*, Shrawan Kumar, Joyce Hood, **Joon-Hak Lee**. “Non Fatal Occupational Injury Rates and Biomechanical Analysis of Musculoskeletal Disorders in the Housekeeping Staff of a Health Care Facility” The 2009 Annual Biomedical Research Conference for Minority Students. Phoenix, AZ (Nov. 2009)
- Benjamin Cruz*, **Joon-Hak Lee** , Kenneth Banks, David Hunter: “MODELING THE RELATIONSHIP BETWEEN LAND USE AND EXCESSIVE NUTRIENT AND SEDIMENT LOADING WITHIN DENTON COUNTY WATERSHED USING EPA-DEVELOPED SPREADSHEET TOOL FOR ESTIMATING POLLUTANT LOAD” Research Appreciation Day, University of North Texas-Health Science Center, Fort Worth, TX (April 2010).
- Claudia S. Coggin, **Joon-Hak Lee**, Virginia Pierce, Guy Dixon, Robert Kaman, David Sterling, Susan Harlin: “SUMMER PUBLIC HEALTH EDUCATION AND RESEARCH EXPERIENCE (SPHERE)” Research Appreciation Day, University of North Texas-Health Science Center, Fort Worth, TX (April 2010).
- Julie C. Tsecouras*, **Joon Lee**, Brandon Bennett “Environmental Exposure Risk Assessment of West Nile Virus in City Parks in Fort Worth, Texas” 2014 Annual Education Conference of Texas Public Health Association, Corpus Christi, TX (March 2014).
- Kiran Bhandarkar*, Brandon Bennett, **Joon-Hak Lee** “Evaluation of Storm Drain System Components for Abundance of the Primary West Nile virus vector in Fort Worth” Research Appreciation Day, University of North Texas-Health Science Center, Fort Worth, TX (April 2014).
- Julie C. Tsecouras*, **Joon Lee**, Brandon Bennett “Environmental Exposure Risk Assessment of West Nile Virus in City Parks in Fort Worth, Texas” Research Appreciation Day, University of North Texas-Health Science Center, Fort Worth, TX (April 2014).
- Kiran Bhandarkar*, Brandon Bennett, **Joon-Hak Lee** “Evaluation of Weather Factors for Abundance of the Primary West Nile virus vector in Fort Worth ” Research Appreciation Day, University of North Texas-Health Science Center, Fort Worth, TX (April 2014).
- Julie C. Tsecouras*, **Joon Lee**, Brandon Bennett “Environmental Exposure Risk Assessment of West Nile Virus in City Parks in Fort Worth, Texas” 64th Annual James Steele Conference on Diseases in Nature Communicable to Man, Irving, TX (June , 2014)
- Kiran Bhandarkar*, Brandon Bennett, **Joon-Hak Lee** “Association of Primary West Nile virus vector, *CULEX QUINQUEFASCIATUS*, with Weather Factors and Storm Drain Components in the City of Fort Worth” 142nd Annual Meeting and Exposition of American Public Health Association, New Orleans, (Nov. 2014)
- Kimberly Fulda, **Joon-hak Lee**, Jerry Simecka, Michelle Lee, Mark Pulse, Anna Espinoza, Phung Nguyen, Patricia Taylor, Sushma Sharma “Clostridium difficile (C-diff) prevalence in healthcare settings: An Environmental Screening Study in Dallas-Fort Worth Region 2015 Annual Education Conference of Texas Public Health Association, Austin, TX (Feb. 2015)
- Ju Sung Lee*, Hyo Jung Tak, **Joon-hak Lee** “Global Health Policy: Areas for improvement of the current global malaria control in sub-Saharan African

countries” United For Sight Global Health & Innovation Conference, Yale University, New Haven, CT (March, 2015)

- Ju Sung Lee*, Hyo Jung Tak, and **Joon-hak Lee**. "Areas for improvement to further reduce malaria burden in sub-Saharan Africa?" UNTHSC Research Appreciation Day (April, 2015)
- Sushma Sharma, Patricia Taylor, Kimberly G. Fulda, **Joon-hak Lee**, Jerry Simecka, Kristin Jenkins “*Clostridium difficile* (C-Diff) Prevention and Education: A Community Wide Campaign and Research in Dallas-Fort Worth region” JPS Research Day, Fort Worth, TX (June 2015)
- Kimberly G. Fulda, **Joon-hak Lee**, Jerry Simecka, Michelle Lee, Mark Pulse, Anna Espinoza, Phung Nguyen, Patricia Taylor, Sushma Sharma “*Clostridium difficile* (C-Diff) prevalence in healthcare settings: An Environmental Screening Study in Dallas-Fort Worth region” the North American Primary Care Research Group Annual Meeting at Cancun, Mexico (October, 2015)
- Bhumika Maddineni, Andrew Cassidy, Joon-hak Lee: EPA-Registered Mosquito Repellents: Attributes and Effectiveness, Texas Public Health Association 93rd Annual Education Conference, Fort Worth, Texas (March 2017)

6. CONTINUING EDUCATION/ COMPLIANCE

NIH-sponsored Quantitative Microbial Risk Assessment workshop III, University of Washington, Seattle, WA (Aug. 4-14, 2017)

Biotechniques Weninar “Enhancing Microbiome and Metagenomics Studies through Reference Standards” (March 30, 2017)

NIH Webinar “Engaging in Qualitative Research Methods: Opportunities for Prevention and Health Promotion” (Jan. 19, 2017)

Workshop for Environmental Compliance, San Antonio, TX (Nov. 10th-13th, 2015)

Retreat and workshop for Online teaching (Aug. 2015)

Business Continuity Orientation Training (Apr. 2015)

Multiple Choice Question writing workshop (Apr. 2015)

Preventing Sexual Misconduct (Title X) (Apr. 2015)

FERPA Basics (Apr. 2015)

Pivot and Funding opportunity training (March 2015)

North Texas Mosquito Management Seminar (March 2015)

Active-Shooter Preparedness (Dec. 2014)

HIPPA Privacy and Security TX (Dec. 2014)

Reporting Child Abuse on Campus (Nov. 2014)

Sexual Harassment (May 2014)

Minors-Abuse & Neglect (May 2014)
RCOI training (May 2014)
Blood-Borne Pathogens Training (May 2014)
Hazard Communication Training (May 2014)
Code of Ethics: 2013
CITI Course in The Protection of Human Research Subjects: 2007, 2009, 2011, 2013
Creating a Culture of Integrity. University of North Texas-Health Science Center, Sept. 2010
Annual meeting of Entomological Society of America, Indianapolis, IN, December 2009.
The 2nd North Texas Health Forum "Prevention and Control of Asthma in Children"
Fort Worth Colonial Country Club, Texas, April, 2009
Writing and Validating Test Items, Center for Learning Enhancement, Assessment, and Retention, University of North Texas, March 2009
Outbreak investigation of Gastroenteritis at a University in Texas (CB3076), CDC Training and Continuing Education, Aug. 2008
Gene Expression and Microarray Analysis workshop at Utah State University, Aug. 2007
IRB training, University of North Texas-Health Science Center, 2005
Environmental Health Perspective on water quality and quantity: a multi-disciplinary concern, ASPH summer environmental health council meeting, 2005
Field Epidemiology Surge Team Training, New York State Dept. of Health, 2004
Supervisor Training, New York State Dept. of Health, 2002
Bioethics Course, CDC (Certification No. 16504), 2000
Bio-Safety Course, CDC, 2000
Radiation Safety Course, University of Alabama at Birmingham, 1999
Laboratory Safety course, University of Alabama at Birmingham, 1999
Bio-Safety course, Iowa State University, 1996
Bio-Safety Level 3 training, US-Army Medical Research Unit-Republic of Korea, 1990, 1992
Short Course of Medical-Veterinary Acarology, Ohio State University, 1990