

## ASTRI C. WAYADANDE

**Associate Professor of Plant Pathology  
Interim Director, National Institute for Microbial Forensics  
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### **Education:**

1991	Ph.D	Entomology	The Ohio State University, Ohio Agricultural Research and Development Center, Wooster, OH.
1987	MS	Entomology	University of Missouri, Columbia, MO.
1983	BS	Entomology	University of California, Davis, CA.

### **Professional Experience:**

2015-2016	<b>Interim Director</b> , National Institute for Microbial Forensics & Food and Agricultural Biosecurity, Oklahoma State University
2013-pres	<b>Associate Professor</b> , Dept. of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK.
2007-2013	<b>Assistant Professor</b> , Dept. of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK.
2007-pres	<b>Assistant Director</b> , National Institute for Microbial Forensics & Food and Agricultural Biosecurity, Oklahoma State University
2007	<b>Adjunct Professor</b> , Dept. of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK
2003-2007	<b>Adjunct Associate Professor</b> , Dept. of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK.
1999-2003	<b>Adjunct Assistant Professor</b> , Dept. of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK.
1997-2007	<b>Assistant Research Professional</b> , Dept. of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK.
1994-1997	<b>Assistant Researcher</b> , Dept. of Plant Pathology, Oklahoma State University, Stillwater, OK.
1993-1994	<b>Research Associate</b> , Department of Plant Pathology, Oklahoma State University, Stillwater, OK.

- 1991-1992 **Lecturer**, Dept. of Entomology, Oklahoma State University, Stillwater, OK.
- 1987-1991 **Graduate Research Associate**, Dept. of Entomology, Ohio Agricultural Research and Development Center, Wooster, OH.
- 1984-1987 **Graduate Research Assistant**, Department of Entomology, University of Missouri, Columbia, MO.
- 1983-1984 **Technician**, California Cooperative Extension, Santa Cruz County, Watsonville, CA.
- 1983 **Field monitor**, Ronald Ruud Entomological Services, Modesto, CA.

### **Grants and Awards:**

- Wayadande, A.**, F. Ochoa Corona, T. Blagden, L. Ma, W. Schneider, and C. Garzon. 2016. Plant Pathogen Forensics. USDA National Needs Fellowship. \$262,000 for five years.
- Dmitriev, D., C. Dietrich and **A. Wayadande**. 2016. NSF GoLife: Phylogenies of the Deltocephaline Leafhoppers and their Associated Microbes. \$1,200,000 for five years
- Wayadande, A.** and A. Whitfield. 2015. Vector Status of the Invasive Leafhopper, *Balclutha rubrostriata*, as it invades the Central Plains States. USDA AFRI Foundation: Seed Grant Program. \$147,355 for two years
- J. Fletcher, U. Melcher, F. Ochoa-Corona, L. Ma, R. Allen, C. Garzon, R. Kaundal, and **A. Wayadande**. 2012 *USDA-National Needs Fellowship: Forensic Plant Pathology*. Funded \$261,000 for three years.
- Wayadande, A.** 2012 Integrated biology through ecology and evolution of infectious plant microbes. Provost's Interdisciplinary Research Grant, \$37,500.
- Wayadande, A.**, J. Fletcher, and F. Ochoa-Corona. 2009. Differential susceptibility of fast- and slow-growth spinach to human enteric bacteria. Center for Produce Safety. \$84,500.
- Wayadande, A.**, A. Gerry, J. Talley, J. Millar, U. DeSilva, J. Fletcher, and T. Michaelides. 2009. Filth fly transmission of human enteric bacteria to pre-harvest fresh produce. CSREES: National Integrated Food Safety Initiative. \$968,455 for five years.
- Fletcher, J. and **A. Wayadande**. 2009. *Salmonella enterica*: A human pathogen in fresh produce. OCAST \$89,246 for two years.
- Wayadande, A.** and J. Talley. 2009. Fly reservoirs of *E. coli* O157:H7 and their role in contamination of leafy greens. Center for Produce Safety, \$49,155.
- Fletcher, J. and **A. Wayadande**. 2008. Plant Health Exercise: Partnering/Training for Success During Plant Health Response. Oklahoma Office Homeland Security, \$20,675.
- Fletcher, J., **A. Wayadande**, J. Talley, and S. Gilliland. 2007. Movement of *Escherichia coli* O157:H7 in spinach and dissemination to leafy greens by insects. Fresh Express, Inc. \$222,560.
- Fletcher, J., U. Melcher, R. Allen, **A. Wayadande**, and S. Gilliland. 2007. Microbial forensics and plant pathosystems. TIP, Oklahoma State University. \$80,728.
- Wayadande, A.**, J. Fletcher, B. Bruton, and S. Pair. 2006. Exploring mechanisms of plant resistance to a phloem-associated bacterial disease by analysis of vector feeding behavior. USDA-NRIGCP, \$100,000.
- Wayadande, A.**, M. Pierce, S. Marek, N. Walker, K. Conway, J. Dillwith, M.

- Anderson, J. Verchot, J. Fletcher, and U. Melcher. 2006. Fluorescence microscopy with digital imaging. RIP, Oklahoma State University, \$47,000.
- Fletcher, J., J.C. Chen, E. Civerolo, U. Melcher, A. Mello, **A. Wayadande**, and R. Yokomi. 2005. Citrus stubborn disease in California: Epidemiology of a re-emerging pathogen and its vectors. USDA-ARS Cooperative Agreement, \$82,130.
- Fletcher, J., **A. Wayadande**, and U. Melcher. 2005. Maize resistance to *Spiroplasma kunkelii* and/or its vector *Dalbulus maidis*. Pioneer HiBred, \$120,000.
- Wayadande, A.C.**, J. Fletcher, B. Bruton, S.D. Pair, and F. Mitchell. 2001. Transmission of phytopathogenic bacteria: A new role for *Anasa tristis*. USDA-NRICGP, \$180,000.
- Fletcher, J., **A.C. Wayadande**, B. Bruton, J. Damicone, N. Anderson, and W. Roberts. 2000. Row covers for reduction in incidence of yellow vine disease in cucurbits. Oklahoma State University Integrated Pest Management, \$11,100.
- Fletcher, J., B. Bruton, F. Mitchell, S. Pair, **A. Wayadande**, and U. Melcher. 1998. Insect vector relationships, weed reservoir hosts, and management of yellow vine disease of cucurbits. USDA Southern Region IPM, \$90,000
- Fletcher, J., **A. Wayadande**, and U. Melcher. 1998. *Spiroplasma citri*-insect vector interface: Nature and role of adhesins. USDA NRICGP, \$160,000.
- Fletcher, J. B. Bruton, F. Mitchell, S. Pair, and **A. Wayadande**. 1998. Insect Transmission of the phloem-limited bacterial agent of cucurbit yellow vine disease. OAES TRIP, \$30,000
- Kwon, M. O. **A. C. Wayadande**, and J. Fletcher. 1996. Electron microscopy grant, Oklahoma State University.
- Wayadande, A.C.** and J. Fletcher. 1995. Electron microscopy grant, Oklahoma State University.
- Fletcher, J. M.E. Shaw, and **A. Wayadande**. 1992. Role of surface proteins in transmission of spiroplasmas by leafhoppers. USDA NRICGP \$110,000.
- Baker. G., **A.C. Wayadande**, and J. Fletcher. 1992. Electron microscopy grant Oklahoma State University.
- 2012 President's Cup Award, Oklahoma State University, 3<sup>rd</sup> place Team Competition
- 2012 Big 12 Faculty Fellowship, Travel to Texas A & M University, August 2012: \$1,900
- 2011 International Association for Food Protection 2011 National Meeting Travel Award: \$1250.00
- 2011 A. North Central Branch-ESA Travel Award: \$750.00
- 1990 DeLong Award, Ph.D research, The Ohio State University, Columbus, OH
- 1987 Stone Award, Master's research, University of Missouri, Columbia, MO

### **Refereed Publications:**

- Pace, R. J. Talley, T.Crippen, and **A. Wayadande**. ( 2017) Filth fly transmission of *E.coli* O157:H7 and *Salmonella enterica* to lettuce, *Lactuca sativa*. *In press*, Annals Ent. Soc. Am. 00:000-000.

- Ramm, C., **A. Wayadande**, K. Baird, R. Nandakumar, N. Madayiputhia, K. Amundsen, T. Donze, F. Baxendale, T. Heng-Moss. (2016). Morphology and proteome characterization of the salivary glands of the Western chinch bug, *Blissus occiduus* (Hemiptera: Blissidae). J. Econ. Entomol. 108: 2055-2064.
- Hung KY, Michailides TJ, Millar JG, **Wayadande A**, Gerry AC (2015) House Fly (*Musca domestica* L.) Attraction to Insect Honeydew. PLoS ONE 10(5): e0124746. doi:10.1371/journal.pone.0124746
- Andreason, S., M. Gard, and A. Wayadande. 2015. Detection of the Red-Streaked Leafhopper, *Balclutha rubrostriata* (Melichor) (Hemiptera: Cicadellidae), on an Invasive Grass Species in Oklahoma Southwestern Entomologist 40(3):479-485. 2015
- Arif, M., S. Aguilar-Moreno, A. Wayadande, J. Fletcher, & F. Ochoa-Corona. 2014. Primer modification improves rapid and sensitive in vitro and field deployable assays for detection of High Plains Virus variants. Appl. & Env. Microbiol. 80:320-327.
- Wasala, L., J. Talley, U. Desilva, J. Fletcher and **A. Wayadande**. 2013. Transfer of *Escherichia coli* O157:H7 to spinach by house flies (*Musca domestica*). Phytopathology 103:373-380.
- Carpane, P., U. Melcher, **A. Wayadande**, W. Dolezal, and J. Fletcher. 2013. Genomic variability of the phytopathogenic mollicute *Spiroplasma kunkelii*. Phytopathology 103: 129-134.
- Sikora, E. J., B. Bruton, **A. Wayadande**, and J. Fletcher. 2012. First report of the cucurbit yellow vine disease caused by *Serratia marcescens* in watermelon and squash in Alabama. Plant Dis. 96: 761.
- Mutaqin, K., J. Comer, **A. Wayadande**, U. Melcher, and J. Fletcher. 2011. Selection and characterization of spiroplasma mutants by random transposome mutagenesis. J. Can. Microbiol. 57:525-532.
- Carpane, P., **A. Wayadande**, E. Backus, W. Dolezal, and J. Fletcher. 2011. Characterization of electrical penetration graphs of *Dalbulus maidis* on maize. Ann. Entomol. Soc. Am. 104:515-525.
- Mello, A. R. Yokomi, U. Melcher, J. Chen, E. Civerolo, **A. Wayadande**, & J. Fletcher. 2010. New perspectives on the epidemiology of citrus stubborn disease in California orchards. Plant Health Progress doi: 10.1094/PHP-2010-0526-04-SY.
- Overall, L. E. Rebek, **A. Wayadande**. 2010. New distribution records of the glassy-winged sharpshooter, *Homalodisca vitripennis*, in Oklahoma. Southwestern Entomologist 35: 193-195.
- Al-Saqer, S., P. Weckler, J. Solie, M. Stone and **A. Wayadande**. 2010. Identification of Pecan Weevils through Image Processing. Am. J. Agri. and Biolog. Sci. 6: 69-79 DOI10.3844/ajabssp.2011.69.79
- Mello, A., **A. Wayadande**, R. Yokomi and J. Fletcher. 2009. Transmission of different isolates of *Spiroplasma citri* to carrot and citrus by *Circulifer tenellus* (Hemiptera: Cicadellidae). J. Econ. Entomol. 102:1417-1422.
- Talley, J., **A. Wayadande**, A. Gerry, L. Wasala, U. Desilva, J. Fletcher, and S. Gilliland. 2009. Association of *E. coli* O157:H7 with filth flies (Muscidae and Calliphoridae) captured in leafy green fields and experimental transmission spinach by house flies (Diptera: Muscidae). J. Food Protection 72: 1547-1552.

- Mitra, R., E. Cuesta-Alonso, **A. Wayadande**, J. Talley, S. Gilliland, and J. Fletcher. 2009. Effect of route of introduction and host cultivar on the colonization, internalization, and movement of the human pathogen *Escherichia coli* O157:H7 in spinach. *J. Food Protection* 72:1521-1530.
- Mello, A., R. Yokomi, U. Melcher, J. Chen, **A. Wayadande**, and J. Fletcher. 2008. Genetic diversity of different *Spiroplasma citri* isolates from different regions, hosts, and isolation dates. *Phytopathology* 98:960-968.
- Galleto, L., J. Fletcher, D. Bosco, M. Turrina, **A. Wayadande**, and C. Marzachi. 2008. Characterization of putative membrane protein genes of the chrysanthemum yellows phytoplasma isolate (CY), *Candidatus "Phytoplasma asteris"*. *Can. J. Microbiol.* 54:341-351.
- Wayadande, A.**, B. Bruton, J. Fletcher, S. Pair, and F. Mitchell. 2005. Retention of the cucurbit yellow vine disease bacterium, *Serratia marcescens*, through transstadial molt of the vector, *Anasa tristis* (Hemiptera: Coreidae). *Annals Ent. Soc. Am.* 98:770-774.
- Bruton, B., F. Mitchell, J. Fletcher, S. Pair, **A. Wayadande**, U. Melcher, J. Brady, B.R. Bextine, and T. Popham. 2004. *Serratia marcescens*, a phloem-colonizing squash bug transmitted bacterium, is the causal agent of cucurbit yellow vine disease. *Plant Dis.* 87: 937-944.
- Pair, S., B. Bruton, F. Mitchell, J. Fletcher, **A. Wayadande**, and U. Melcher. 2003. Overwintering squash bugs harbor and transmit the causal agent of cucurbit yellow vine disease. *J. Econ. Entomol.* 97: 71-78.
- Pair, S.D., Bruton, B.D., Mitchell, F., Fletcher, J. **Wayadande, A.**, Melcher, U. and Davis, A. 2003. Cucurbit yellow vine disease: A threat to the cucurbit industry? *Proc. Ann. Georgia Fruit and Veg. Growers Conf.* pp 41-43.
- Bextine, B., **A. Wayadande**, J. Fletcher, B. Bruton, S. Pair, and F. Mitchell. 2003. An artificial feeding system for *Anasa tristis*, *Southwestern Entomol.* 28: 63.
- Fletcher, J. and **A. Wayadande**. 2002. Fastidious vascular-colonizing bacteria. *Plant Health Instructor*. DOI: 10.1094/PHI-I-2002-1218-02.
- Bextine, B., **A. Wayadande**, B. Bruton, S. Pair, F. Mitchell, and J. Fletcher. 2001. Effect of insect exclusion on the incidence of yellow vine disease and of the associated bacterium in squash. *Plant Dis.* 85:875-878.
- Yu, J., **A.C. Wayadande**, and J. Fletcher. 2000. *Spiroplasma citri* surface protein P89 implicated in adhesion to cells of the vector, *Circulifer tenellus*. *Phytopathology*. 90:716-722.
- Bost, S.C., F. Mitchell, J. Fletcher, U. Melcher, S.D. Pair, **A.C. Wayadande**, and B.D. Bruton. 1999. Yellow vine disease of watermelon and pumpkin in Tennessee. *Plant Dis.* 83:587.
- Fletcher, J., **A.C. Wayadande**, U.K. Melcher, and F. Ye. 1999. The Phytopathogenic mollicute-insect interface: A closer look. *Phytopathology* 88:1351-1358.
- Kwon, M.O., **A.C. Wayadande**, and J. Fletcher. 1999. *Spiroplasma citri* movement into the intestines and salivary glands of its leafhopper vector, *Circulifer tenellus*. *Phytopathology* 89:1144-1151.

- Wayadande, A.C.** and J. Fletcher. 1998. Development and use of an established cell line of the leafhopper *Circulifer tenellus*, to characterize *Spiroplasma citri* vector interactions. *J. Invert. Pathol.* 72:126-131.
- Kwon, M.O., **A.C. Wayadande**, and J. Fletcher. 1997. Mode of entry, localization and cytopathology of *Spiroplasma citri* in the intestines and salivary glands of its vector, *Circulifer tenellus*. *Oklahoma Microscopy Soc. Newslett.* 19:15.
- Wayadande, A.C.**, G.R. Baker, and J. Fletcher. 1997. Comparative ultrastructure of the salivary glands of two phytopathogen vectors, the beet leafhopper, *Circulifer tenellus* (Baker), and the corn leafhopper, *Dalbulus maidis* DeLong and Wolcott (Homoptera: Cicadellidae). *J. Insect Morphol. and Embryol.* 26:113-120.
- Wayadande, A.C.** and L.R. Nault. 1996. Leafhoppers on leaves: An analysis of feeding behavior using conditional probabilities. *J. Insect Behavior* 9:3-21.
- Wayadande, A.C.** and J. Fletcher. 1995. Transmission of *Spiroplasma citri* lines and their ability to cross gut and salivary gland barriers within the leafhopper vector, *Circulifer tenellus*. *Phytopathology* 85:1256-1259.
- Baker, G.B., **A.C. Wayadande**, and J. Fletcher. 1993. Morphology of the midgut of the leafhopper *Circulifer tenellus*. *Okla. Microscopy Soc. Newslett.* 15:15.
- Wayadande, A.C.** and L.R. Nault. 1993. Leafhopper probing behavior associated with maize chlorotic dwarf virus transmission to maize. *Phytopathology* 83:522-523.
- Wayadande, A.C.** and E.A. Backus. 1989. Probing behavior of the potato leafhopper (Homoptera:Cicadellidae) on chlordimeform- and phosmet-treated alfalfa. *J. Econ. Entomol.* 82:766-772.

### **Book Chapters:**

- Wayadande, A.**, J. Fletcher, and B. Bruton. In J. Brown, Ed. *Cucurbit Yellow Vine Disease: A Model for True Bug-Pathogen Relationships*. "Vector Pathogen Systems", J. Brown, Ed., APS Press.
- Backus, E. A. and **A. Wayadande**. *Leafhopper Feeding Physiology and Behavior*. In "The Leafhoppers" J. Badmin and M. Webb, Eds. Accepted for publication, Plenum Press.
- J. Fletcher, U. Melcher, and **A. Wayadande**. 2005. The Phytopathogenic Spiroplasmas. In M. Dworkin et al., eds., *The Prokaryotes: An Evolving Electronic Resource for the Microbiological Community*, third edition, release 3.XX, Month 2005, Springer, New York, <http://141.150.157.117:8080/prokPUB/index.htm>.
- Wayadande, A.C.** 1994. Electronic monitoring of leafhoppers and planthoppers: Feeding behavior and applications for host plant resistance studies. *Proc. Thomas Say Publications in Entomology* pp 86-105.

### **Abstracts and Non-Refereed Publications:**

- Andreason, S., M. Arif, J. Brown, F. Ochoa-Corona, J. Fletcher, and A. Wayadande. 2013. Multiplex PCR identification of high consequence *Bemisia tabaci* biotypes and *Trialeurodes vaporariorum*. *Phytopathology* 103: S2.7 (abstract).
- Andreason, J. Brown, J. Fletcher, M. Arif, F. Ochoa-Corona and **A. Wayadande**. 2012

- Development of MtCO1 primers for rapid identification of three *Bemisia tabaci* biotypes and *Trialeurodes vaporariorum*. *Phytopathology* 102: S:4.5 (abstract).
- Wasala, L., J. Talley, U. De Silva, J. Fletcher, and **A. Wayadande**, 2011. House fly regurgitant may be a source of *E. coli* O157:H7 contamination of leafy greens. *Phytopathology* 01:S188 (abstract).
- [Gerry, A.C., Wayadande, A.C., Talley, J.L., Wasala, L.P. 2010. Protecting food crops from contamination with filth fly transmitted human pathogens. HortScience 45\(8\). p.S 33. Annual Conference of the American Society for Horticultural Science. Palm Springs, CA](#)
- Wasala, L., Talley J. Fletcher S. Gilliland **A. Wayadande**. 2009. Contamination of the spinach phylloplane by *Escherichia coli* O157:H7: Do house flies play a role in dissemination? *Phytopathology* 99:S139 (abstract)
- A. Wayadande**. 2009. Transmission and management of Cucurbit yellow vine, caused by the bacterial pathogen *Serratia marcescens*. *Phytopathology* 99:S170 (abstract)
- Mitra, R., **A. C. Wayadande** S. Lehman P. Cuesta S. E. Gilliland J. Fletcher. 2008 Microscopic surveillance of fluorescently tagged O157:H7 in spinach plants. *Phytopathology* 98:S107 (abstract)
- Mello, A., R. K. Yokomi U. Melcher J. C. Chen E. Civerolo **A. Wayadande** and J. Fletcher. 2008. New perspectives on the epidemiology of citrus stubborn disease in California orchards. *Phytopathology* 98:S190 (abstract)
- Carpane, P., **A. Wayadande**, W. Dolezal and J. Fletcher. 2007. Evaluation of resistance to *Dalbulus maidis* in maize hybrids differing in susceptibility to corn stunt disease in the field. *Phytopathology* 97: S18 (abstract)
- Almeida, R., **A. Wayadande**, and T. Shelly. 2005. Insect transmission of plant pathogens: A tribute to Alexander "Sandy" Purcell and Lowell R. "Skip" Nault. 2005. *Annals Ent. Soc. Am.* 98: 769.
- Mutaqin, K., **A. Wayadande**, U. Melcher and J. Fletcher. 2004. Adherence-deficient *Spiroplasma citri*: optimization of transposome mutagenesis and variant enrichment. *Phytopathology* 94:S73. Publication no. P-2004-0494-AMA (abstract)
- Mutaqin, K., **A. Wayadande**, U. Melcher and J. Fletcher. 2003. Selection and characterization of non-adherent mutants and variants of *Spiroplasma citri* BR3-3X. *Phytopathology* 93:S64. Publication no. P-2003-0464-AMA
- Wayadande**, A., S. Palermo and J. Fletcher. 2003. Lectin binding to two *Spiroplasma* vectors, *Circulifer tenellus* and *Exitianus exitiosus*. *Phytopathology* 93:S89. Publication no. P-2003-0655-AMA (abstract)
- Bruton, B., F. Mitchell, B. Bextine, **A. Wayadande**, S. Pair, J. Fletcher and U. Melcher. 2001. Yellow vine of cucurbits: Pathogenicity of *Serratia marcescens* and transmission by *Anasa tristis*. *Phytopathology* 91:S11 (abstract)
- Bextine, B., **A. Wayadande**, S. Pair, B. Bruton, F. Mitchell, and J. Fletcher. 2001. Parameters of *Serratia marcescens* transmission by the squash bug, *Anasa tristis*. *Phytopathology* 91:S8 (abstract).
- Berg, M., **A. Wayadande**, B. Joshi, U. Melcher and J. Fletcher. 2001. *Spiroplasma citri* adhesion related protein SARP1: Localization and conservation in *S. citri* strains and other spiroplasmas. *Phytopathology* 91:S8 (abstract).

- Berg, M., **A. Wayadande**, J. Yu, U. Melcher, and J. Fletcher. 2000. *Spiroplasma citri* putative adhesin P89: development of serological and molecular markers. *Phytopathology* 90:S6 (abstract).
- Wayadande, A.C.**, F. Ye, U. Melcher, and J. Fletcher. 1998. *Spiroplasma citri* proteins adhering to organs of the leafhopper vector, *Circulifer tenellus*. *Phytopathology* 88:S95 (abstract).
- Yu, J., **A.C. Wayadande**, and J. Fletcher. 1998. Role of an 89 kDa membrane protein in the adherence of *Spiroplasma citri* to cultured cells of the vector leafhopper, *Circulifer tenellus*. *Phytopathology* 88:S102 (abstract).
- Wayadande, A.C.** and J. Fletcher. 1997. Salivary gland ultrastructure of the spiroplasma vector, *Circulifer tenellus*. *Okla. Microsc. Soc. Newslett.* 19:15.
- Wayadande, A.C.**, G.R. Baker and J. Fletcher. 1995. Salivary gland ultrastructure of two spiroplasma vectors, *Circulifer tenellus* and *Dalbulus maidis*. *Phytopathology* 85: 1180.
- Fletcher, J. and **A.C. Wayadande**. 1994. Gut and salivary gland barriers to four *Spiroplasma citri* lines acquired by the leafhopper, *Circulifer tenellus*. *Int'l. Org. Mycoplasma. Lett.* 4:522-523.
- Wayadande, A.C.** and J. Fletcher. 1993. Gut and salivary gland barriers to transmission of three *Spiroplasma citri* lines acquired by the leafhopper *Circulifer tenellus*. *Phytopathology* 83:1399 (abstract).
- Wayadande, A.C.**, Shaw, M.E., and J. Fletcher. 1993. Tests of differential transmission of three *Spiroplasma citri* lines by the leafhopper, *Circulifer tenellus*. *Phytopathology* 83:468 (abstract).

#### **Invited Presentations:**

- Wayadande, A.** Bugs and Bacteria: Insect Transmission of Pathogens to Plants. USDA Invasive Pests Unit, Fort Detrick, Maryland. Host: Dr. Bill Schneider. Feb 23, 2015.
- Wayadande, A.** Entangled Genomes of the Oklahoma Tallgrass Prairie. Department of Entomology and Plant Pathology, Oklahoma State University March 25, 2015.
- Wayadande, A.** & J. Talley: Society of Vector Ecologists. Differential transmission of food-borne bacteria to leafy greens by blow flies and house flies. Invited Symposium Speaker, "Filtch Flies as Pathogen Vectors" Albuquerque, NM, October, 2015.
- Wayadande, A.** ESA Flies as carriers of human pathogens acquired from manure. ESA CSSA Joint Symposium, invited speaker. ESA Nov. 2015, Minneapolis, MN
- Wayadande, A.** Flies as vectors of foodborne pathogens: A metagenomics analysis of "The Excretome" IBM Almaden: Sequencing the City, San Jose, CA May 2014
- Wayadande, A.** Is there a role for the food safety entomologist in the One Health concept? Program Symposium, Entomological Society of America, Portland, OR, November, 2014
- Wayadande, A.** Graduate School at Oklahoma State University. What Entomology and Plant Pathology can do for you. Seminar, Cameron University, September 2014.
- Wayadande A.** Flies, Food Safety, and Farmer's Markets. Oklahoma Society of Environmental Specialists Annual Meeting. October, 2013, Midwest City, OK.
- Wayadande A.** Food safety risks from livestock associated flies. Member symposium. Nov. 12, 2013 Entomological Society of America national meeting, Nov. 11, Austin, TX.



- Gerry, A., **A. Wayadande**, J. Talley, L. Wasala, and K. Hung. Protecting leafy greens from contamination by flies. Leafy Greens Symposium, Nov. 19, 2013, Salinas, CA
- Wayadande, A.** Bugs and Bacteria: From here to there. Botany Seminar, Aug. 27, 2013.
- Wayadande, A.** Insect Vectors of Plant and Human Pathogens. OSU-ESPE symposium, May 22, 2013, ESPE, Quito, Ecuador.
- Wayadande, A.** Microbial Forensics and its Role in Agricultural Biosecurity. Special Session, May 23, 2013, ESPE, Quito, Ecuador.
- Wayadande A.** and J. Fletcher. Bacterial Deposition by Hemipterans: One Size Does Not Fit All. Member Symposium, Nov. 13, 2012, National Meeting of the Entomological Society of America, Knoxville, TN
- Wayadande, A.** Bugs and Bacteria: Filth Fly Movement of Human Pathogens to Pre-Harvest Fresh Produce. Oct. 11, 2012. Invited Departmental Seminar, Kansas State University, Manhattan KS.
- Wayadande, A.** Bugs and Bacteria: From Here to There September 4, 2012. Invited Departmental Seminar, Texas A & M. College Station, TX
- Pace, R., J. Talley, and **A. Wayadande.** Movement of *E. coli* O157:H7 and *Salmonella enterica* by the house fly, *Musca domestica* and the blow fly, *Phormia regina*, to lettuce. Invited symposium, NCB ESA, April 2012, Lincoln NE.
- Wayadande, A.** NIMFFAB and Food Safety: Filth Fly Contamination of Fresh Produce. Feb 15, 2011. Invited Departmental Seminar, Langston University, Langston, OK.
- Wayadande, A.** Filth Fly Contamination of Fresh Produce, Invited symposium, NCB ESA, March, 2011. Minneapolis, MN
- Wayadande, A.** Filth Fly Contamination of Fresh Produce. Invited Departmental Seminar University of Nebraska, Lincoln, NE, March 30, 2011
- Wayadande, A.** National Institute for Microbial Forensics & Food and Agricultural Biosecurity: Response to a New National Need. Invited Departmental Seminar, Forensic Sciences, University of Nebraska, Lincoln, NE, March 30, 2011.
- Wayadande, A.** Differential susceptibility of spinach grown under fast- and slow-growth conditions to human pathogen contamination. Center for Produce Safety Symposium. Invited presentation, June 27-28, 2011 Orlando, FL
- Wayadande, A.** Those Crazy Coreids!: What EPG can tell us about squash bug feeding behavior. Invited symposium speaker. Hemipteran Plant Interactions Symposium, Piracicaba, Brazil. July 11-15, 2011.
- Wayadande, A.** Regurgitated bacteria colonize the plant surface. Invited symposium. International Association for Food Protection National Meeting, Milwaukee, WI, Aug. 1-4, 2011.
- Wayadande, A.** and J. Fletcher. 2010. Biogeography of spiroplasma vectors: A moving target. Section Symposium, Entomological Society of America National Meeting, San Diego, CA.
- Waydande, A.** and J. Talley. 2010. Fly reservoirs of *E. coli* O157:H7. Section Symposium, Entomological Society of America National Meeting, San Diego, CA.
- Wayadande, A.** 2010. Filth fly transmission of human enteric bacteria. Central States Entomological Society, Stillwater, OK
- Solorzano, U. DeSilva, R. Fernando, and **A. Wayadande.** 2010. Comparison of fly

- microbial diversity under controlled conditions. Facing Challenges of Vector Borne Disease in the 21<sup>st</sup> Century. Riverside, CA.
- Gerry, A. Millar, J., T. Michaelides, J. Talley, and **A. Wayadande**. 2010. "Waiter, there is a fly in my soup". 19th Annual Urban Pest Management Conference. University of California at Riverside. Riverside, CA.
- Wayadande A.** and J. Talley. 2010. Filth fly reservoirs of *E. coli* O157:H7. California Leafy Greens Research Board, Huron, CA.
- Wayadande, A.** and J. Talley. 2010. Fly reservoirs of *E. coli* O157:H7. Center for Produce Safety Symposium, Davis, CA.
- Gerry, A., **A. Wayadande**, J. Talley, U. DeSilva, and L. Wasala. 2010. [Protecting food crops from contamination with filth fly transmitted human pathogens. Annual Conference of the American Society for Horticultural Science. Palm Springs, CA](#)
- Wayadande, A.** Flies, Feet and Food: Only one belongs in your mouth. 2009. Program Symposium, Entomological Society of America, National Meeting, Indianapolis, IN.
- Wayadande, A.** DNA Barcoding: Applications to Vectors of Plant Pathogens. 2009 Member Symposium. ESA National Meeting, Indianapolis, IN.
- Wayadande, A.** and J. Talley. Role of filth flies in contamination of leafy greens 2009 Invited symposium, "Food Safety: What does it mean?" Produce Marketing Association: Fresh Summit, Anaheim, CA.
- Wayadande, A.** Transmission and management of Cucurbit yellow vine, caused by the bacterial pathogen *Serratia marcescens* 2009. Symposium, American Phytopathological Society, Portland, OR.
- Wayadande, A.** Citrus Stubborn Disease. 2009 Invited Seminar, Citrus Research and Education Center, University of Florida, Lake Alfred, FL
- Wayadande, A.** New developments at the insect transmission of plant pathogens lab 2009. Departmental seminar, Oklahoma State University, Stillwater, OK
- Wayadande, A.** Food Safety in Agriculture. 2008 Plenary Address, American Peanut Research and Education Society, Oklahoma City, OK
- Wayadande, A.** Plant Microbe Investigators: Forensics and Plant Pathology Working to Protect the Nation's Food Supply. 2008. Invited Seminar, Rogers State University, Claremore, OK
- Wayadande, A.** Electrical penetration graph technology for the study of hemipteran feeding behavior and its application to agriculture *or* Corn-ucopia and Melon-coly. 2007 Departmental seminar, Entomology and Plant Pathology, Oklahoma State University.
- Wayadande, A.** Michael E. Irwin, A tribute. Story Wrangling, 2006. Program Symposium, Entomological Society of America, National Meeting, Indianapolis, IN.
- Wayadande, A.** Interrelationships between *Serratia marcescens*, cucurbit yellow vine disease and its insect vector, *Anasa tristis*. 2006. "Plant diseases transmitted by insects" Section Symposium, Entomological Society of America, National Meeting, Indianapolis, IN.
- Wayadande, A.** Cucurbit yellow vine disease: Discovery of an unusual insect-pathogen interaction. 2006. Invited seminar, BARC, Beltsville, MD.
- Wayadande A.** and E.D. Ammar. Functional anatomy of leafhoppers 2005. International Auchenorrhyncha Congress, Berkeley CA.

- Wayadande, A.** Methods in transmission electron microscopy. 2005. International Auchenorrhyncha Congress, Berkeley, CA
- Wayadande, A.** Identification and biology of leafhopper vectors of plant disease pathogens. 2005. Great Plains Diagnostic Network Workshop, Bozeman, MT.
- Wayadande, A.** An unexpected relationship: *Serratia marcescens* transmission by the true bug, *Anasa tristis*. 2004. Program symposium, Section C, National Meeting of the Entomological Society of America, Salt Lake City, UT.
- Wayadande, A.** Bugs and bacteria: From here to there. 2002. Departmental seminar, Entomology and Plant Pathology, Oklahoma State University.
- Wayadande, A.** Leafhopper salivary gland morphology and spiroplasma internalization. 2001. Tick physiology group, Oklahoma State University.
- Fletcher, J. and **A. Wayadande.** Spiroplasma-insect interface: A closer look 1998. Dept. of Entomology and Plant Pathology, Oklahoma State University.
- Wayadande, A.** *Spiroplasma citri* transmission by leafhoppers. 1996. Dept. of Plant Pathology, Oklahoma State University.
- Wayadande, A.** Bug Spit: One spiroplasma's journey into the unknown. 1997. Dept. of Plant Pathology, Oklahoma State University.
- Wayadande, A.** Growing shiitake mushrooms. 1995 Dept. of Plant Pathology, Oklahoma State University.
- Wayadande, A.** Leafhopper probing behavior and its role in transmission of maize chlorotic dwarf virus. 1992. Dept. of Entomology, Oklahoma State University.
- Wayadande, A.** Conditional probabilities and transmission of maize chlorotic dwarf virus. 1990. Dept. of Plant Pathology, Ohio State University.
- Wayadande, A.** Host plant resistance studies: Contributions of the AC electronic monitoring system. 1989. Informal Conference to honor Don McLean and Marvin Kinsey, Entomological Society of America National Meeting.

#### **Other Professional Presentations:**

- Gahm, N., W. Hoback, and **A. Wayadande.** Leafhopper diversity... Southwestern Branch ESA. First Place, Undergraduate Posters. Tulsa, OK. Feb. 23, 2015.
- Wayadande, A.** & S. Andreason. The red-streaked leafhopper invades Oklahoma. Kansas Entomological Society and Arkansas Entomological Society Joint Meeting. April 3-4 2015, Fayetteville, AR.
- Andreason, S., W. Schneider, R. Davis, and **A. Wayadande.** 2015. E-probe diagnostic nucleic acid assay (EDNA) detection of *Spiroplasma kunkelii* in gray lawn leafhopper, *Exitianus exitiosus* (Uhl.), transcriptome sequencing datasets. Entomological Society of America National Meeting. Minneapolis, MN. 2<sup>nd</sup> place PIE Paper.
- Wayadande, A.** Update on blow fly transmission biology. Multistate Livestock Insects S-1060, Orlando, FL January, 2014
- Borrone, J., P. Hoyt, U. DeSilva, J. Talley, and **A. Wayadande.** The metagenome of the blow fly, *Phormia regina*. MCBios, Stillwater, OK March, 2014
- Dubie, T., J. Talley, and **A. Wayadande.** 2014. INFLUENCE OF VEGETATION HEIGHT ON THE

- DISPERSAL OF HOUSE FLIES (*MUSCA DOMESTICA*) FROM LIVESTOCK FACILITIES AND FILTH FLY ACTIVITY ASSOCIATED WITH COMPOSTED AND NON-COMPOSTED BEEF CADAVERS. 1<sup>st</sup> place Poster Southwestern Branch of the ESA, San Antonio, TX.
- Backus, E., J. Munyaneza, H. McAuslane, C. Pearson, M. Rangasamy, M. Redinbaugh, and **A. Wayadande**. What is a waveform library? Advances in EPG science made possible by 3<sup>rd</sup> generation AC DC universal monitors. Hemipteran-Plant Interactions Symposium, July 2014, Riverside, CA.
- Andreason, S., M. Gard, and **A. Wayadande**. First report of the invasive leafhopper, *Balclutha rubrostriata*, in Oklahoma. Entomological Society of America, National Meeting, Portland, OR, November, 2014.
- Pace, R. J. Talley, and **A. Wayadande**. Blow flies are better vectors of *E. coli* O157:H7 than house flies. Southwestern Branch of the ESA 2013 annual meeting, Las Cruces, NM.
- Ramm, C., L. Baird, **A. Wayadande**, K. Amundsen, K. Donze, F. Baxendale, T. Heng-Moss. Morphological and biochemical aspects of the salivary glands of the western chinch bug, *Blissus occiduus*. Entomological Society of America national meeting, Nov. 11, 2013 Austin, TX.
- Dubie, T., J. Talley, and **A. Wayadande**. Role of insect succession in composted and non-composted beef cadavers. Entomological Society of America national meeting, Nov. 11, Austin, TX.
- Andreason, S., M. Arif, J. Brown, F. Ochoa-Corona, J. Fletcher, and **A. Wayadande**. Multiplex PCR identification of high consequence *Bemisia tabaci* biotypes and *Trialurodes vaporarium*. American Phytopathological Society of America annual meeting, August, 2013, Austin, TX
- Wayadande, A.**, J. Borrone, U. deSilva, P. Hoyt, and J. Talley. Microbiota associated with the excreta of blow flies: A metagenomic analysis. Livestock Insects Workers Conference, July 2013, Nebraska City, NE.
- Dubie, T., J. Talley, and **A. Wayadande**. Dispersal of house flies (*Musca domestica*) from livestock facilities and the significance of habitat corridors. Entomological Society of America national meeting, Nov. 12, 2012, Knoxville, TN
- Andreason, J. Brown, J. Fletcher, M. Arif, F. Ochoa-Corona and **A. Wayadande**. 2012 Development of MtCO1 primers for rapid identification of three *Bemisia tabaci* biotypes and *Trialurodes vaporarium*. American Phytopathological Society national meeting, Providence, RI.
- Andreason, J. Brown, J. Fletcher, M. Arif, F. Ochoa-Corona and **A. Wayadande**. 2012 Development of MtCO1 primers for differentiation of three *Bemisia tabaci* biotypes. Southwestern Branch of the ESA, Little Rock, AR.
- Pace, R., J. Talley, and **A. Wayadande**. 2012. Movement of *E. coli* O157:H7 and *Salmonella enterica* to lettuce by the black blow fly, *Phormia regina*. Entomological Society of America national meeting, Knoxville, TN.
- Wayadande, A.** A. Gerry, J. Talley, J. Millar, J. Fletcher, U. DeSilva, and T. Michaelides. 2012. Filth fly transmission of human enteric pathogens to pre-harvest fresh produce. USDA NIFSI project-director's meeting, July 20, 2012, Providence, RI
- Wayadande, A.** and S. Lamoreaux. 2012. Differential transmission of *Salmonella enterica* to

- different surfaces by the blow fly, *Phormia regina*. Southwestern Branch ESA. March, 6 2012, Little Rock, Arkansas.
- Vest, L., R. Pace and **A. Wayadande**. Differential transmission of *Salmonella enterica* to different fruits by the blow fly, *Phormia regina*. Research Week graduate student symposium. Oklahoma State University, April, 2012.
- Wayadande, A.** Filth Fly Contamination of Plants. Human Pathogens on Plants Workshop, College Park, MD, Feb. 2012.
- Wayadande, A.**, S. Kamenidou, J. Dillwith, R. Madden and J. Hardin. Spinach breakage and susceptibility to human enteric pathogens. Human Pathogens on Plants Workshop, College Park, MD, Feb. 2012.
- Pace, R., J. Talley, and **A. Wayadande**. 2012. Movement of *E. coli* O157:H7 and *Salmonella enterica* to lettuce by the black blow fly, *Phormia regina*. Southwestern Branch of the ESA, Little Rock, AR.
- Solorzano, C., J. Talley, U. DeSilva, and **A. Wayadande**. 2011. Using stable isotope analysis to determine developmental origin of house flies, implications for food safety. Southeastern Branch of the ESA, Puerto Rico
- Carpane, P. **A. Wayadande**, and J. Fletcher. Characterization of electrical penetration graphs of the corn leafhopper, *Dalbulus maidis*, on maize. Hemipteran Plant Interactions Symposium, Piracicaba, Brazil. July 11-15, 2011.
- Wayadande, A.** E. Backus, P. Carpane, H. McAuslane, P. Redinbaugh, M. Rogers, R. Serikawa, J. Todd. The X-wave Files: Stereotypic probing of hemipterans on plants. Hemipteran Plant Interactions Symposium, Piracicaba, Brazil. July 11-15, 2011.
- Wasala, L., J. Talley, J. Fletcher, U. DeSilva and **A. Wayadande**. Colonization of the spinach phyllosphere after fly regurgitation. American Phytopathological Society National Meeting, Aug. 6-11, 2011.
- Andreason, S., J. Brown, F. Ochoa-Corona, and **A. Wayadande**. Development of mtCo1 AT-rich flaps for rapid identification of high consequence Bemisia tabaci. American Phytopathological Society Annual Meeting, Honolulu, HI, Aug. 6-11, 2011.
- Pace, R., J. Talley, and **A. Wayadande**. Movement of human pathogens *E. coli* O157:H7 and *Salmonella enterica* to lettuce by the blow fly, *Phormia regina* (Meigen). Entomological Society of America National Meeting, Reno, NV, Nov. 12-16, 2011.
- M. Arif, P. Ouyang, F. Ochoa Corona, **A. Wayadande** and J. Fletcher. Detection of Xylella fastidiosa in a potential insect vector, the sharpshooter leafhopper (*Homalodisca vitripennis*). Entomological Society of America National Meeting, Reno NV, Nov. 12-16, 2011.
- Wayadande, A.** J. Talley, A. Gerry, U. Desilva, and J. Fletcher. Defense Threat Reduction Agency: Chemical and Biological Threats convention, Las Vegas, NV, Nov. 14-18, 2011.
- Wasala, L. J. Talley, U. DeSilva, and **A. Wayadande**. 2010. Dissemination of *Escherichia coli* O157:H7 to spinach via regurgitation by house flies, *Musca domestica* L. International Association for Food Protection, Anaheim, CA. Presented 8/2010.
- Wasala, L. J. Talley, and **A. Wayadande**. 2010. Central States Entomological Society, Stillwater, OK
- Thompson, K., C. Solorzano, and **A. Wayadande**. 2010. Population genetics of the salt

- marsh mosquito, *Aedes taeniorrhynchus*. Central States Entomological Society, Stillwater, OK
- Solorzano, C., J. Talley, **A. Wayadande**. 2010. Survey of flies in California for *E. coli* O157:H7. Central States Entomological Society, Stillwater, OK.
- Gerry, A. Millar, J., T. Michaelides, J. Talley, and **A. Wayadande**. 2010. Comparison of fly microbial diversity under controlled conditions. Facing Challenges of Vector Borne Disease in the 21<sup>st</sup> century. Riverside, CA.
- Gerry, A. Millar, J., T. Michaelides, J. Talley, and **A. Wayadande**. 2010. "Waiter there is a fly in my soup". 19th Annual Urban Pest Management Conference. University of California at Riverside. Riverside, CA.
- Wayadande, A.** and J. Talley. 2010. Filth fly reservoirs of *E. coli* O157:H7. California Leafy Greens Research Board. Huron, CA.
- Wayadande, A.** and J. Talley. 2010. Filth fly reservoirs of *E. coli* O157:H7. Central States Entomological Society, Stillwater, OK
- Thompson, K., C. Solorzano, and **A. Wayadande**. 2010. Genetic variation in *Aedes taeniorrhynchus*. Central States Entomological Society, Stillwater, OK
- Wasala, L., J. Talley, and **A. Wayadande**. 2010. *E. coli* O157:H7 associated with house fly appendages. Central States Entomological Society, Stillwater, OK.
- Wayadande, A.** and J. Talley. 2010. Filth fly reservoirs of *E. coli* O157:H7. Center for Produce Safety Annual Symposium, Davis, CA.
- Solorzano, C., U. DeSilva, J. Talley, and **A. Wayadande**. 2010. Detection of *E. coli* O157:H7 from house flies collected from animal production areas in California. Entomological Society of America, San Diego, CA
- Solorzano, C., K. Thompson, S. Andreason, and **A. Wayadande**. 2010. Genetic variability of *Aedes taeniorrhynchus* from the Gulf and East North American Coast Entomological Society of America, San Diego, CA
- Wayadande, A.** J. Talley, and J. Fletcher. 2009. Role of filth flies in contamination of leafy greens. California Leafy Greens Research Board, Seaside CA.
- Maskey, K., **A. Wayadande** B. Bruton, J. Fletcher, and A. Wayadande. 2009. Electrical penetration graphs of squash bug, *Anasa tristis*, feeding on watermelon and its relatives. Southwestern Branch of the ESA, Stillwater, OK.
- Wayadande, A.** 2009. Vector Entomology: Status of our discipline. Southwestern Branch of the ESA, Stillwater, OK
- Wasala, L., **A. Wayadande**, J. Fletcher, J. Talley, and S. Gilliland. 2009. House fly movement of *Escherichia coli* O157:H7 to the spinach phylloplane. American Phytopathological Society National Meeting, Portland, OR
- Wayadande A.**, J. Fletcher, J. Talley, and S. Gilliland. 2008. Lettuce wash our spinach before making salad. FAPC research symposium, Stillwater, OK.
- Mello A., J. Fletcher, C. Chen, U. Melcher, **A. Wayadande**, and R. Yokomi. 2008. New perspectives on the epidemiology of citrus stubborn disease. International Organization for Mycoplasmaology, Beijing, China.
- Cuesta Alonso E. P., J. Fletcher, **A. C. Wayadande**, R. Mitra, and S. E. Gilliland. 2008. Internalization of *Escherichia coli* O157:H7 into growing spinach plants. FAPC Research Symposium, Stillwater, OK.

- Mello A., J. Fletcher, C. Chen, U. Melcher, **A. Wayadande**, and R. Yokomi. 2008. New perspectives on the epidemiology of citrus stubborn disease. American Phytopathological Society National Meeting, Minneapolis, MN
- Cuesta Alonso E. P., J. Fletcher, **A. C. Wayadande**, R. Mitra, and S. E. Gilliland. 2008. Internalization of *Escherichia coli* O157:H7 into growing spinach plants. Institutional Food Technology Annual Meeting, New Orleans, LA.
- Mitra, R., **A.C. Wayadande**, S. Lehman, E. Cuesta Alonso, S. Gilliland, and J. Fletcher. 2008. Microscopic surveillance of fluorescently tagged *Escherichia coli* O157:H7 in spinach plants. American Phytopathological Society Annual Meeting, Minneapolis, MN.
- Maskey, K., **A. Wayadande**, B. Bruton, and J. Fletcher. 2008. Electrical penetration graphs of squash bug probing on watermelon. Southwestern Branch of the ESA, Fort Worth, TX.
- E. Backus, M. Rangasamy, H. McAuslane, M. Redinbaugh, **A. Wayadande**, and W. Bennett. 2008. New, Universal AC-DC Electrical Penetration Graph (EPG) Monitor: Detailed R- and emf-Component Waveforms for Any Piercing-Sucking Insect. International Congress of Entomology, Durbin, South Africa.
- J. Fletcher, **A. Wayadande**, J. Talley, S. Gilliland. 2008. Movement of *Escherichia coli* O157:H7 into spinach and dissemination by insects to leafy greens. Fresh Express Research Conference, Monterey, CA.
- Maskey, K., **A. Wayadande**, B. Bruton, and J. Fletcher. 2008. Assessment of squash bug feeding on different cucurbit hosts. Entomological Society of America National Meeting, Reno NV
- Wayadande**, B. Bruton, J. Fletcher, and S. Pair. 2008. Exploring Mechanisms of Plant Resistance to a Phloem-Inhabiting Bacterial Disease by Analysis of Vector Probing Behavior. CSREES Awardee's Workshop, Reno, NV.
- Franzen P. Weckler, N. Wang, S. Ashaghatra and **A. Wayadande**. 2008. Developing a Wireless Camera Network (WCN) for Monitoring Pecan Weevil Emergence" Oklahoma Pecan Meeting.
- Wayadande**, B. Bruton, J. Fletcher, and S. Pair. 2007. Exploring Mechanisms of Plant Resistance to a Phloem-Inhabiting Bacterial Disease by Analysis of Vector Probing Behavior. CSREES Awardee's Workshop, San Diego, CA.
- Talley, J., **Wayadande, A.**, Fletcher, J., Gilliland, S. and Gerry, A. 2007. Survey of insect fauna in leafy green production areas near livestock pastures. Ann. Mtg, Entomological Soc. of America, San Diego, CA.
- Wayadande, A.** and J. Fletcher. 2006. Electrical penetration graphs of the squash bug, *Anasa tristis*. Entomological Society of America, National Meeting, Indianapolis, IN.
- Heppler, M., **A. Wayadande**, and J. Fletcher. 2006. Trypanosome-like organisms recovered from the squash bug, *Anasa tristis*. Entomological Society of America, National Meeting, Indianapolis, IN.
- Heppler, M. **A. Wayadande**, and J. Fletcher. 2005. *Serratia marcescens* mortality in aphids. Entomological Society of America National Meeting, Ft. Lauderdale, FL.
- Wayadande, A.** 2004. An unexpected relationship: *Serratia marcescens* transmission by the true bug, *Anasa tristis*. Program symposium, Section C, National Meeting of the Entomological Society of America, Salt Lake City, UT.

- Wayadande, A.**, J. Fletcher, B. Bruton, S. Pair, and F. Mitchell. 2003. Foregut morphology of *Anasa tristis*, vector of the causal agent of cucurbit yellow vine disease. National meeting of the Entomological Society of America, Cincinnati, OH.
- Wayadande, A.** J. Fletcher, B. Bruton, S. Pair, and F. Mitchell. 2003. *Lygus hesperus*, an experimental vector of *Serratia marcescens*, the causal agent of cucurbit yellow vine disease. Southwestern Branch of the Entomological Society of America, Oklahoma City, OK.
- Wayadande, A.** J. Fletcher, B. Bruton, S. Pair, and F. Mitchell. 2002. Nymphal transmission of *Serratia marcescens*, the causal agent of cucurbit yellow vine disease. Entomological Society of America National Meeting. Ft. Lauderdale, FL.
- Wayadande A.** and J. Fletcher. 2002. Salivary gland basal lamina of the leafhopper, *Circulifer tenellus*. Congress for the International Organization of Mycoplasma, Vienna, Austria.
- Wayadande, A.** and J. Fletcher. 2001. Salivary gland basal lamina of two leafhoppers, *Dalbulus maidis* and *Circulifer tenellus*. Entomological Society of America National Meeting, San Diego CA.
- Berg, M, **A. Wayadande**, B. Joshi, U. Melcher, and J. Fletcher. 2001. *Spiroplasma citri* adhesin related protein SARP1: Localization and conservation in *S. citri* strains and other spiroplasmas. American Phytopathological Society National Meeting.
- Bextine, B. **A. Wayadande**, B. Bruton, S. Pair, F. Mitchell, and J. Fletcher. 2001. Yellow vine of cucurbits: pathogenicity of *Serratia marcescens* and transmission by *Anasa tristis*. Southwestern Branch Entomological Society of America meeting, Dallas, TX.
- Bextine, B. **A. Wayadande**, and J. Fletcher. 2000. Squash bug transmission of the cucurbit yellow vine bacterium in an artificial system. Entomological Society of America National Meeting, Montreal, Canada..
- Wayadande, A.**, T. Al-Zadjali, and J. Fletcher. 2000. Experimental vectors of the bacterium that causes cucurbit yellow vine disease. Entomological Society of America National Meeting, Montreal, Canada.
- Wayadande, A.** and J. Fletcher. 2000. Structure of the basal lamina of the Leafhoppers *Circulifer tenellus* and *Exitianus exitiosus*. Congress for the International Organization for Mycoplasma, Nakata, Japan.
- Yu, J. **Wayadande, A.** and J. Fletcher. 1999. Role of an 89kd membrane protein in the adherence of *Spiroplasma citri* to cultured cells of the vector leafhopper, *Circulifer tenellus* Entomological Society of America National Meeting, Atlanta, GA.
- Wayadande, A.**, F. Ye, U. Melcher, and J. Fletcher. 1998. *Spiroplasma citri* proteins adhering to organs of the leafhopper vector, *Circulifer tenellus*. American Phytopathological Society National Meeting, Las Vegas, NV.
- Yu, J. **Wayadande, A.** and J. Fletcher. 1997. Surface proteins of *Spiroplasma citri* involved in its adherence to vector insect cells. American Phytopathological Society National Meeting, Rochester, NY.
- Wayadande, A.** and J. Fletcher. 1996. The interaction between *Spiroplasma citri* cells *in vivo* and *in vitro*. Congress for the International Organization for Mycoplasma, Orlando, FL.



- Wayadande, A.** G. Baker, and J. Fletcher. 1995. Salivary gland ultrastructure of two leafhoppers, *Dalbulus maidis* and *Circulifer tenellus*. American Phytopathological Society National Meeting, Pittsburg, PA.
- Wayadande, A.** and J. Fletcher. 1994. Gut and salivary gland barriers to four *Spiroplasma citri* lines acquired by the leafhopper, *Circulifer tenellus*. Congress of the International Organization of Mycoplasma
- Wayadande, A.** and J. Fletcher. 1993. Gut and salivary gland barriers to three *Spiroplasma citri* lines acquired by the leafhopper vector, *Circulifer tenellus*. American Phytopathological Society National Meeting.
- Wayadande, A.** 1989. Electronic monitoring of leafhoppers and planthoppers: Feeding behavior and application to host-plant resistance studies. Informal Conference, Entomological Society of America National Meeting, San Antonio, TX.

### Administration:

Assistant Director, National Institute for Microbial Forensics & Food and Agricultural Biosecurity (2007-pres).

Local Arrangements: Plant Health Field Exercise, Stillwater, OK, May 2008.

Coordinator, Plant Health Table-top Exercise, Oklahoma City, July 2009.

Lead 21, Class X 2014-2015.

### Teaching:

Full Member, Graduate Faculty, 1996-present

*Plant Pathology 5560, Vector Biology*, 2001, 2003, 2005

*Pathology 3344, Introductory Plant Pathology*, regular guest instructor on vector transmission 2001, 2002, 2003, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015

*Plant Pathology 5613 Host Plant Resistance*, guest lecturer 2008, 2010, 2012, 2014

*Plant Pathology 3144 Phytobacteriology*, guest lecturer 2003, 2005, 2007, 2015

*Plant Pathology 5013, Virology*, guest lecturer for a two-week section on insect transmission of plant viruses, 1993, 1995, 1997, 1999, 2001, 2004

*Plant Pathology 2143 Global Issues in Agricultural Biosecurity*, guest lecturer 2010, 2012, 2013, 2014, 2015

*Plant Pathology Food Safety*, guest lecturer 2012, 2014

*Entomology 5043, Insect Physiology*, guest lecturer, 2009, 2011, 2015

*Entomology 4800, Capstone Series*, guest lecturer with Steve Marek, 2009, 2012, 2014, 2015

*Entomology 3461, Forest Entomology*, taught laboratory section 1992

*Entomology 3421, Horticultural Entomology*, taught laboratory section 1992

*Entomology 3003, Livestock Entomology*, taught laboratory sections 1991, 1992, guest lectures 2012, 2013, 2014, 2015

*Entomology 5644, Insect Morphology*, assisted in laboratory section 1991

Entomology , Forensic Entomology 2014, 2015

Plant Pathology 5012 Plant Virology Laboratory- co taught with Dr. Francisco Ochoa  
Corona, 2014, 2016

Co-instructor Electrical Penetration Graph Workshop- Parlier, CA 2010, 2013, 2014

**Graduate Students:**

**Major Advisor:** Kaushal Maskey, MS  
Lakmini Wasala, MS  
Sharon Andreason, Ph.D  
Rebecca Pace, PhD  
Natalie Gahm, MS

**Graduate Student Committees:** Serving or have served on committees for seven MS and thirteen Ph.D students in Entomology and Plant Pathology, Zoology, or Ag Engineering:

John Rascoe, Ph.D.	Jianbin Yu, MS
Blake Bextine Ph.D.	Talal al-Zadjali, MS
Mohammed Al-Saleh, Ph.D.	Myoung Ok-Kwon, MS
Kikin Mutaqin, Ph.D.	Guanshingpeng Luo, PhD.
Marty Heppler, MS	Pablo Carpane, Ph.D
Alexandre Mello, PhD	Lisa Overall, Ph.D
Saleh Ashagathra, Ph.D	Lakmini Wasala, MS
Kaushal Maskey, MS	Rebecca Pace, Ph.D
Chenxing Niu, MS	Trisha Dubie, Ph.D
Sharon Andreason, Ph.D - <i>current</i>	Samiksha Prasad, Ph.D, Univ. of Florida
Ranjit Pandey, Ph.D – <i>current</i>	Ravendra Chauhan, Ph.D - <i>current</i>
Dayna Collett <i>current</i>	Jon Daniels <i>current</i>
Natalie Gahm <i>current</i>	

**Supervised Wentz Scholars:**

Andy Huss (1995-1996)  
Ben Stevens (1996-1997)  
Mohammed Khatib (1997-1998)  
Lauren Robinson (2006-2007)  
Leah Vest (2011-2012)

**Supervised undergraduate 4800 Practicum students**

Cade Morris (2009)  
Xandra Robidoux (2009)  
Rachel Cox (2009)  
Kelsy Thompson (2010)  
Sarah Lamoreaux (2012)  
Natalie Gahm (2014-2015)  
Thomas Hess (2015)

## **Laboratory Management:**

Post-doctoral Associates:

Dr. Cesar Solorzano  
Dr. Sophia Kamenidou  
Dr. James Borrone  
Dr. Mohammed Arif

Supervised laboratory hourly and classified personnel:

Shan Shan He	Christopher Davis
Kristy McGinty	Tonishia Owens
Perla Encancipcion	Lori Green
Tim Vermillion	Jianning Wang
Phillip Taylor	Swathi Bangaru
Lauren Robinson	Ram Obbireddy
Spurthy Ashthragetty	David Criswell
Tripti Shrivistava	Meghan Mayer
Cade Morris	Kelsie Brooks
Kelsy Thompson	Leah Vest
Josette Wood	J.D. Chancellor
Natalie Gahm	Upuli DeSilva

Supervised visiting scholars

Li Ma, University of Georgia, June 2007  
Domenico Bosco, University of Torino, Italy, August, 2008  
Simona Palermo, University of Torino, Italy, Nov. 2001-May 2002  
Anna Segal, Towson University, Baltimore, June 2002  
Luciana Galetto, University of Torino, Italy, Nov. 2005-June 2006  
Chelsea Swatsell, University of Texas, Tyler, September 2009  
Crystal Ramm, University of Nebraska, September, 2012  
Paola Ayala, ESPE, Quito, Ecuador, Jan-Feb. 2014  
Hurian Holzhausen, Sao Paolo, Brazil, October-November, 2014  
Dr. Thomas Perring March-June 2015

## **Departmental and University Service/ Activities:**

Core Facilities Committee 2015  
Institutional Biosafety Committee, OSU 2007-2013  
Ag Faculty Council, Plant Pathology Representative 2013-2015

Team member, Homeland Security Team  
 Team member, Pathogen-Host Interactions Team  
 Seminar Coordinator with Dr. Jack Dillwith, Fall Semester 2009, 2014  
 Member, Master's of Agriculture Committee, 2008-present  
 Chair, Departmental Infrastructure Committee, 2008-present  
 Member, Departmental Safety Committee, 2002-2007  
 Member, Graduate Handbook Committee, 2007-present  
 Bug Zoo, 1991-2001  
 Chair, Departmental Brochure Committee, 1996-1997  
 Science for Teachers (high school teacher in-service training) 1995, 1996  
 Member, Departmental Social Committee, 1992-2008, 2013  
 Member, Search Committee:  
     NIMFFAB: Forensic Pathology                      Francisco Ochoa-Corona  
     NIMFFAB: Food Safety Plant Pathology        Li Ma  
     Dept. of Entomology and Plant Pathology    Wyatt Hoback  
     NIMFFAB Director                                 Kitty Cardwell  
 Judge, OSU Research Week 2012, 2013, 2014, 2015  
 Judge, Biochemistry and Molecular Biology Symposium, 2013

**Professional Service:**

Manuscript Reviews:

J. Economic Entomology  
 J. Environmental Entomology  
 J. Vet. Med. Entomology  
 J. Medical Entomology  
 Phytopathology  
 Plant Disease  
 Phytoparasitica  
 Florida Entomologist  
 Annals of the Entomological Society of America  
 Entomologia experimentalis et applicata  
 Kansas Entomological Society  
 J. Insect Physiology  
 J. Insect Behavior  
 Peanut Science  
 Molecular Plant Pathology  
 Annals of Applied Biology  
 International J. of Insect Morphology and Embryology  
 Journal of Invertebrate Pathology  
 Southwestern Entomologist  
 PlosOne

## Grant Proposal Reviews:

USDA-NRICGP Plant Pathology  
USDA-NRICGP Entomology and Nematology  
California Department of Food and Agriculture, Pierce's Disease Program  
USDA-Southern Region Water Consortium  
BARD  
Genomics, French Research Agency  
Center for Produce Safety  
Citrus Research Board

## Invited Panelist:

USDA NIFA Food Safety Panel, 2011, 2015  
Center for Produce Safety-BARD 2009  
National Academy of Sciences – Citrus Greening Program 2008  
USDA-CSREES Arthropod and Nematode Biology and Management: Organismal Biology, 2007  
USDA-CSREES Citrus Tristeza Virus Special Program 2005 and 2006  
CAPS project Tospovirus- DE Ullman et al. Advisory Committee

## **Professional Societies:**

### Entomological Society of America

Co-Administrator, Hemipteran Feeding Network  
Co-organized a Program Symposium at the 2009 National meeting  
“Serendipity: Celebrating the synchrony of ideas, colleagues, and science in unexpected ways”  
Co-organized symposium at 2009 Southwestern Branch meeting  
“Insect vectors of pathogens important to plant and human disease”  
Organized a symposium for the 2002 National Meeting titled: “Behavior, ecology, and biology of vectors of plant disease pathogens: A tribute to Skip Nault.”  
Chair (2002), Vice-chair(2001), Secretary (2000) of Subsection Cc,  
Judge, Student paper competition, 1994, 2001, 2002. 2003, 2004, 2005, 2006, 2013  
Moderator, Student paper competition, 2012  
Southwestern Branch ESA Awards Committee, 2013  
Southwestern Branch ESA Membership Committee, 2012, 2013  
Distinguished Teaching Award committee member, 2013, 2014, 2015

### American Phytopathological Society

Chair, Vector – Pathogen Complexes Committee  
Vice Chair- Vector – Pathogen Complexes Committee  
Member, Food Safety Working Group

Member, Agricultural Biosecurity Working Group  
International Association for Food Protection  
Oklahoma Academy of Sciences  
Oklahoma Microscopy Society  
Entomological Foundation  
Counselor  
Member, Scholarship Committee