

CURRICULUM VITAE

NAME

Jan Leach

ADDRESS

Bioagricultural Sciences and Pest Management
College of Agricultural Sciences

C203B Plant Sciences

PHONE

(970) 491-2924

EDUCATION

1981 Ph D, University of Wisconsin, Madison

1977 MS, University of Nebraska Lincoln

1975 BS, University of Nebraska Lincoln

ACADEMIC POSITIONS

2015 - Present Research Associate Dean for CAS, Appointment (40%) as Research Associate Dean for CAS, Colorado State University, United States.

2015 - 2018 Member, GRiSP-OC, United States.

2017-2018 - Prof./Assoc. Dean for Research (College of Agricultural Sciences)

2016-2017 - Prof./Assoc. Dean for Research (College of Agricultural Sciences)

2015-2016 - Professor and Associate Dean for Research (College of Agricultural Sciences)

2014-2015 (College of Agricultural Sciences)

2013-2014 (College of Agricultural Sciences)

2012-2013 (College of Agricultural Sciences)

2011-2012 (College of Agricultural Sciences)

2010-2011 (College of Agricultural Sciences)

2009-2010 (College of Agricultural Sciences)

OTHER POSITIONS

2007 - Present University Distinguished Professor, Colorado State University.

2004 - Present Professor, Bioagricultural Sciences and Pest Management, Colorado State University.

1998 - 2004 University Distinguished Professor, Dept Plant Pathology, Kansas State University.

1995 - 2004 Professor, Department of Plant Pathology, Kansas State University.

1990 - 1995 Associate Professor, Dept. Plant Pathology, Kansas State University.

1984 - 1990 Assistant Professor, Plant Pathology, Kansas State University.

1981 - 1984 Post Doctoral Fellow, East Malling Research, East Malling, UK.

PUBLISHED WORKS

Books

Van Alfen, N., Leach, J. E., Lindow, S. (2015). *Annual Review of Phytopathology* (vol. 52): Annual Review of Phytopathology., Not Peer Reviewed/Refereed

van Alfen, N., Leach, J. E., Lindow, S. (2013). *Annual Review of Phytopathology* (vol. 51): Annual Reviews., Not Peer Reviewed/Refereed

Refereed Journal Articles

N. R., T. P., Leach, J. E., V. V., N. R., V. S. M., P. R. (2017). An operon for production of bioactive gibberellin A4 phytohormone with wide distribution in the bacterial rice leaf streak pathogen *Xanthomonas oryzae* pv. *oryzicola*. *New Phytologist.*, Peer Reviewed/Refereed

Wang, L., Qian, Y., Brummer, J. E., Wilhelm, S. J., Zheng, J., Leach, J. E. Establishment, Biomass Production, and Soil Carbon Analysis of Six Switchgrass Cultivars Grown as an Energy Crop in a Semiarid Environment. *Agronomy Journal.*, Peer Reviewed/Refereed

Triplett, L. R., Cohen, S. P., Heffelfinger, C., Schmidt, C. L., Huerta, A. I., Tekete, C., Verdier, V., Bogdanove, A. J., Leach, J. E. (2016). A resistance locus in the American heirloom rice variety Carolina Gold Select is triggered by TAL effectors with diverse predicted targets and is effective against African strains of *Xanthomonas oryzae* pv. *oryzicola*. *The Plant Journal*, 87(5), 472-83., Peer Reviewed/Refereed

Triplett, L. R., Shidore, T., Long, J. J., Miao, J., Wu, S., Han, Q., Zhou, C., Ishihara, H., Li, J., Zhao, B., Leach, J. E. (2016). AvrRxo1 Is a Bifunctional Type III Secreted Effector and Toxin-Antitoxin System Component with Homologs in Diverse Environmental Contexts. *PLoS One*, 11(7), e0158856., Peer Reviewed/Refereed

Liu, Q., Yang, J., Zhang, S., Zhao, J., Feng, A., Yang, T., Wang, X., Mao, X., Dong, J., Zhu, X., Leung, H., Leach, J. E., Liu, B. (2016). OsGF14e positively regulates panicle blast resistance in rice. *Biochemical and Biophysical Research Communications*, 471(1), 247-52., Peer Reviewed/Refereed

Triplett, L. R., Leach, J. E. (2016). Host resistance to TAL effectors: Thinking outside the UPT box. *Physiological Molecular Plant Pathology.*, Peer Reviewed/Refereed

Liu, Q., Yang, J., Zhang, S., Zhao, J., Feng, A., Yang, T., Wang, X., Mao, X., Dong, J., Zhu, X., Leung, H., Leach, J. E., Liu, B. (2016). OsGF14b Positively Regulates Panicle Blast Resistance but Negatively Regulates Leaf Blast Resistance in Rice. *Molecular Plant-Microbe Interactions : MPMI*, 29(1), 46-56., Peer Reviewed/Refereed

Tanger, P., Vega-Sánchez, M. E., Fleming, M. B., Tran, K., Singh, S., Abrahamson, J. B., Jahn, C. E., Santoro, N., Naredo, E. B., Baraoidan, M., Danku, J. M.C., Salt, D. E., McNally, K. L., Simmons, B. A., Ronald, P. C.,

- Leung, H., Bush, D. R., McKay, J. K., Leach, J. E. (2015). Cell Wall Composition and Bioenergy Potential of Rice Straw Tissues Are Influenced by Environment, Tissue Type, and Genotype. *BioEnergy Research*, 1-18., Peer Reviewed/Refereed
- Han, Q., Zhou, C., Wu, S., Liu, Y., Triplett, L., Miao, J., Tokuhisa, J., Deblais, L., Robinson, H., Leach, J. E., Li, J., Zhao, B. Y. (2015). Crystal structure of the complex between *Xanthomonas AvrRxo1-ORF1*, a type III effector with a polynucleotide kinase domain, and its interactor *AvrRxo1-ORF2*. *Structure*, 23, 1900-1909., Peer Reviewed/Refereed
- Wiersma, A.T., Gaines, T., Preston, C., Hamilton, J.P., Giacomini, D., Buell, C. R., Leach, J. E., Westra, P. (2015). Gene amplification of 5-enol-pyruvylshikimate-3-phosphate synthase in glyphosate-resistant *Kochia scoparia*. *Planta*, 241, 463-474., Peer Reviewed/Refereed
- Booher, N. J., Carpenter, S. C., Sebra, R. P., Wang, L., Salzberg, S. L., Leach, J. E., Bogdanove, A. J. (2015). Single molecule real-time sequencing of *Xanthomonas oryzae* genomes reveals a dynamic structure and complex TAL (transcription activator-like) effector gene relationships. *Microbial Genomics*, 1(4)., Peer Reviewed/Refereed
- Tanger, P., Vega-Sánchez, M., Fleming, M., Tran, K., Singh, S., Abrahamson, J., Jahn, C. E., Santoro, N., Naredo, E., Baraoidan, M., Danku, J., Salt, D., McNally, K., Leung, H., Ronald, P., Bush, D., McKay, J. K., Leach, J. E. (2015). Cell wall composition of rice straw varies among environments, varieties, and tissue types: impacts on bioenergy potential. *BioEnergy Research*., Peer Reviewed/Refereed
- vanEck, L., Davidson, R., Wu, S., Zhao, B., Botha, A. M., Leach, J. E., Lapitan, N. L. (2014). A WRKY53 transcriptional network in wheat revealed by genomics tools in rice. *Functional and Integrated Genomics*, 14, 351-362., Peer Reviewed/Refereed
- Fory, P. A., Triplett, L. R., Ballen, C., Abello, J., Duitama, J., Aricapa, G., Prado, G. A., Correa, F., Hamilton, J., Leach, J. E., Tohme, J., Mosquera, G. M. (2014). Comparative analysis of two emerging rice seed bacterial pathogens. *Phytopathology*, 104, 436-44. dx.doi.org/10.1094/PHYTO-07-13-0186-R, Peer Reviewed/Refereed
- Zhao, J., Zhang, S., Yang, T., Zeng, Z., Huang, z., Wang, X., Liu, Q., Leach, J. E., Leung, H., Liu, B. (2014). Global transcriptional profiling of a cold-tolerant rice cultivar under moderate cold stress reveals different cold stress response mechanisms. *Scandinavian Plant Physiology Society, Epubl ahead of print*., Peer Reviewed/Refereed
- Lang, J. M., Langlois, P., Nguyen, M. H., Triplett, L. R., Purdie, L., Holton, T. A., Djikeng, A., Vera Cruz, C. M., Verdier, V., Leach, J. E. (2014). Sensitive detection of *Xanthomonas oryzae* Pathovars *oryzae* and *oryzicola* by loop-mediated isothermal amplification. *Applied and Environmental Microbiology*, 80(15), 4519-30., Peer Reviewed/Refereed
- Ash, G. J., Lang, J. M., Triplett, L. R., Stodart, B. J., Verdier, V., Vera Cruz, C., Rott, P., Leach, J. E. (2014). Development of a genomics-based LAMP (Loop-1 mediated isothermal amplification) assay for detection of *Pseudomonas fuscovaginae* from rice. *Plant Disease/APS Press*, 98, 909-915., Peer Reviewed/Refereed
- Liu, W., Liu, L., Triplett, L. R., Leach, J. E., Wang, G. L. (2014). Novel insights into rice innate immunity against bacterial and fungal pathogens. *Annual Reviews of Phytopathology*, 52, 213-241., Peer Reviewed/Refereed
- vanEck, L., Davidson, R., Wu, S., Zhao, B., Botha, A., Leach, J. E., Lapitan, N. L. (2014). The transcriptional network of WRKY53 in cereals links oxidative responses to biotic and abiotic stress inputs. *Funct & Integr Genom*, 14(2), 351-362., Peer Reviewed/Refereed

- Yu, C., Chen, H., Tian, F., Leach, J. E., He, C. (2014). Differentially-expressed genes in rice infected by *Xanthomonas oryzae* pv. *oryzae* relative to a flagellin-deficient mutant reveal potential functions of flagellin in host-pathogen interactions. *Rice (New York, N.Y.)*, 7(1), 20., Peer Reviewed/Refereed
- Wonni, I., Cottyn, B., Detemmerman, L., Dao, S., Ouedraogo, L., Sarra, S., Tekete, C., Poussier, S., Corral, R., Triplett, L. R., Koita, O., Koebnik, R., Leach, J. E., Szurek, B., Maes, M., Verdier, V. (2013). Analysis of *Xanthomonas oryzae* pv. *oryzicola* population in Mali and Burkina Faso reveals a high level of genetic and pathogenic diversity. *Phytopathology, epub ahead of print*. dx.doi.org/10.1094/PHYTO-07-13-0213-R, Peer Reviewed/Refereed
- Tanger, P., Field, J. L., Jahn, C. E., DeFoort, M., Leach, J. E. (2013). Biomass for thermochemical conversion: targets and challenges. *Frontiers in Plant Science*, 4, 218. doi: 10.3389/fpls.2013.00218, Peer Reviewed/Refereed
- Liu, Y., Liu, B., Yang, J., Bordeos, A., Leach, J. E., Wang, G., Leung, H. (2013). Fine-mapping and molecular marker development for Pi56(t), a NBS-LRR gene conferring broad-spectrum resistance to *Magnaporthe oryzae* in rice. *Theor Appl Genet*, 126, 985-998., Peer Reviewed/Refereed
- Fletcher, J., Leach, J. E., Eversole, K., Tauxe, R. (2013). Human Pathogens on Plants: Designing a Multidisciplinary Strategy for Research. *Phytopathology*, 103, 306-315. doi: 10.1094/PHYTO-09-12-0236-IA, Peer Reviewed/Refereed
- Boyd, L., Ridout, C., O'Sullivan, D., Leach, J. E., Leung, H. (2013). Plant-pathogen interactions: disease resistance in modern agriculture. *Trends in Genetics online early: http://dx.doi.org/10.1016/j.tig.2012.10.011.*, Peer Reviewed/Refereed
- Anderson, V. A., Haley, S. D., Peairs, F. B., van Eck, L., Leach, J. E., Lapitan, N. L. (in press). Virus-induced gene silencing suggests that (1,3;1,4)- β -glucanase is a susceptibility factor in compatible Russian wheat aphid – wheat Interactions. *Mol. Plant Microbe Interact...*, Peer Reviewed/Refereed
- van Eck, L., Davidson, R., Wu, S., Zhao, B., Botha, A.-M., Leach, J. E., Lapitan, N. L. A WRKY53 transcriptional network in wheat revealed by genomics tools in rice. *Plant J.*, Peer Reviewed/Refereed
- (2012). Development of a variable number of tandem repeats (VNTR) typing scheme for the bacterial rice pathogen *Xanthomonas oryzae* pv *oryzicola*. *Phytopathology*, 102, 948-956., Peer Reviewed/Refereed
- (2012). Dietary rice bran promotes resistance to *Salmonella enterica* serovar Typhimurium colonization in mice. *BMC Microbiol*, doi:10.1186/1471-2180-12-71, 12(1), 71., Peer Reviewed/Refereed
- Gaines, T., Ward, S. M., Bukun, B., Preston, C., Leach, J. E., Westra, P. (2012). Interspecific hybridization transfers a previously unknown glyphosate resistance mechanism in *Amaranthus* species. *Evolutionary Applications*, 5, 29-38., Peer Reviewed/Refereed
- (2012). TAL effectors expressed individually targeting OsSWEET genes enhance virulence on diverse rice varieties when in a TAL effector-deficient strain of *Xanthomonas oryzae*. *New Phytologist*, doi: 10.1111/j.1469-8137.2012.04367.x, 196, 1197-1207., Peer Reviewed/Refereed
- (2011). Controlling rice bacterial blight in Africa: needs and prospects. *J Biotechnol* 30;159(4):320-8 doi:101016/j., Peer Reviewed/Refereed
- (2011). Dissecting quantitative resistance against blast disease using heterogeneous inbred family lines in rice. *Theor Appl Genet*, DOI: 10.1007/s00122-010-1450-2, 122(2), 341-353., Peer Reviewed/Refereed

- (2011). Genetic variation in biomass traits among 20 diverse rice varieties. *Plant Physiol*, 155(1), 157- 68., Peer Reviewed/Refereed
- (2011). Genomic Analysis of *Xanthomonas oryzae* from US rice reveals substantial divergence from known *X oryzae* pathovars. *Appl Environ Microbiol*, 77, 3930-3937., Peer Reviewed/Refereed
- (2011). Interspecific hybridization transfers a previously unknown glyphosate resistance mechanism in *Amaranthus* species. *Evolutionary Applications*, doi: 10.1111/j.1752-4571.2011.00204.x, 5, 29-38., Peer Reviewed/Refereed
- (2011). Linkage illuminates a complex genome. *Nat Biotechnol*, doi: 10.1038/nbt.1945, 29(8), 717-8., Peer Reviewed/Refereed
- (2011). Mechanism of resistance of evolved glyphosate-resistant Palmer amaranth (*Amaranthus palmeri* L.). *J Agric Food Chem*, dx.doi.org/10.1021/jf104719k, 59, 5886-5889., Peer Reviewed/Refereed
- Gaines, T., Shaner, D. L., Ward, S. M., Leach, J. E., Preston, C., Westra, P. (2011). Mechanism of resistance of evolved glyphosate-resistant Palmer amaranth (*Amaranthus palmeri*). *Journal of Agricultural and Food Chemistry*, 59, 5886-5889., Peer Reviewed/Refereed
- (2011). Rice 14-3-3 protein (GF14e) affects cell death and disease resistance. *Plant J* , doi: 10.1111/j.1365-313X.2011.04728.x, 68, 777-787., Peer Reviewed/Refereed
- (2011). The Comprehensive Phytopathogen Genomics Resource: a web-based resource for data-mining plant pathogen genomes. *Database* doi: 10.1093/database/bar053., Peer Reviewed/Refereed
- (2011). Two new complete genome sequences offer insight into host and tissue specificity of plant pathogenic *Xanthomonas* spp. *J Bacteriol*, 193(19), 5450-64., Peer Reviewed/Refereed
- (2010). A benefit of high temperature. *New Phytol*, 185, 568- 576., Peer Reviewed/Refereed
- (2010). Gene amplification confers glyphosate resistance in *Amaranthus palmeri*. *P Natl Acad Sci USA*, 107, 1029-1034., Peer Reviewed/Refereed
- Gaines, T., Zhang, W., Wang, D., Bukun, B., Chisholm, S. T., Shaner, D. L., Nissen, S. J., Patzoldt, W. L., Tranel, P. J., Culpepper, A. S., Grey, T. L., Webster, T. M., Vencill, W. K., Sammons, R. D., Jiang, J.M., Preston, C., Leach, J. E., Westra, P. (2010). Gene amplification confers glyphosate resistance in *Amaranthus palmeri*. *Proceedings of the National Academy of Sciences of the United States of America*, 107(3), 1029-1034., Peer Reviewed/Refereed
- (2010). Genomics-Based Diagnostic Marker Development for *Xanthomonas oryzae* pv *oryzae* and *X oryzae* pv *oryzicola*. *Plant Dis*, 94, 311-319., Peer Reviewed/Refereed
- (2010). Rice Germin-like proteins: Allelic diversity and relationships to early stress responses. *RICE*, DOI: 10.1007/s12284-010-9038-7, 3, 43-55., Peer Reviewed/Refereed
- (2010). Variation in gene expression of *Andropogon gerardii* in response to altered environmental conditions associated with climate change. *J Ecol*, 98, 374- 383., Peer Reviewed/Refereed
- (2010). Virus- induced gene silencing of WRKY53 and an inducible phenylalanine ammonia-lyase in wheat reduces aphid resistance. *Plant Biotechnol J*, doi: 101111/j.1467-7652.2010.00539.x., 8(9), 1023-32., Peer Reviewed/Refereed

- (2009). A Germin-Like Protein Gene Family Functions as a Complex Quantitative Trait Locus Conferring Broad-Spectrum Disease Resistance in Rice. *Plant Physiol*, 149, 286-296., Peer Reviewed/Refereed
- (2009). Accumulating candidate genes for broad-spectrum resistance to rice blast in a drought-tolerant rice cultivar. *Phytopathology*, 99, S19-S19., Peer Reviewed/Refereed
- (2009). Detection of genomic deletions in rice using oligonucleotide microarrays. *Bmc Genomics*, 10., Peer Reviewed/Refereed
- (2009). Genomewide SNP variation reveals relationships among landraces and modern varieties of rice. *P Natl Acad Sci USA*, 106, 12273-12278., Peer Reviewed/Refereed
- (2009). Genomics based diagnostic marker development for *Xanthomonas oryzae* pv *oryzae* and *X oryzae* pv *oryzicola*. *Phytopathology*, 99, S69-S69., Peer Reviewed/Refereed
- (2009). Germins. *Plant Sci*, 177, 499-510., Peer Reviewed/Refereed
- (2008). Acquisition and Evolution of Plant Pathogenesis-Associated Gene Clusters and Candidate Determinants of Tissue-Specificity in *Xanthomonas*. *Plos One*, 3., Peer Reviewed/Refereed
- (2008). Analysis of the *Pythium ultimum* transcriptome using Sanger and Pyrosequencing approaches. *Bmc Genomics*, 9., Peer Reviewed/Refereed
- (2008). Diverse bacterial plant pathogens contain homologs of the *Xanthomonas oryzae* pv *oryzicola* *avrRxo1* effector gene. *Phytopathology*, 98, S71-S72., Peer Reviewed/Refereed
- (2008). Genome sequence and rapid evolution of the rice pathogen *Xanthomonas oryzae* pv *oryzae* PXO99(A). *Bmc Genomics*, 9., Peer Reviewed/Refereed
- (2008). Genome sequence and rapid evolution of the rice pathogen *Xanthomonas oryzae* pv *oryzae* PXO99(A) (vol 9, pg 534, 2008). *Bmc Genomics*, 9, 534., Peer Reviewed/Refereed
- (2008). Phylogeny, function and structure of rice oxalate oxidases. *Phytopathology*, 98, S31-S31., Peer Reviewed/Refereed
- (2008). Rice lesion mimic mutants with enhanced resistance to diseases. *Mol Genet Genomics*, 279, 605-619., Peer Reviewed/Refereed
- (2008). Sequence polymorphisms confer differential allele regulation of germin-like protein gene family members associated with rice blast QTL. *Phytopathology*, 98, S44-S44., Peer Reviewed/Refereed
- (2007). Detection of deletion mutants in rice via ergo hybridization onto membrane spotted arrays. *Plant Mol Biol Rep*, 25, 17-26., Peer Reviewed/Refereed
- (2007). Development of diagnostic molecular markers for rapid identification of *Xanthomonas oryzae* pv *oryzae* and *X-oryzae* pv *oryzicola* using conventional and multiplex PCR. *Phytopathology*, 97, S61-S61., Peer Reviewed/Refereed
- (2007). Dissection of *Rxo1*-mediated defense signaling in cereals. *Phytopathology*, 97, S106-S106., Peer Reviewed/Refereed
- (2007). Ecological genomics. *Front Ecol Environ*, 5, 19-24., Peer Reviewed/Refereed

- (2007). Phylogenomic analyses of rice oxalate oxidases, candidate genes for quantitative resistance to rice blast. *Phytopathology*, 97, S18-S18., Peer Reviewed/Refereed
- (2007). Rust and drought effects on gene expression and phytohormone concentration in the dominant species of tallgrass prairie. *Phytopathology*, 97, S36-S36., Peer Reviewed/Refereed
- (2007). Translational genomics for bioenergy production. *Plant Cell*, 19, 2971-2973., Peer Reviewed/Refereed
- (2006). Drought and rust effects on gene expression in the dominant plant species of tallgrass prairie, *Andropogon gerardii*. *Phytopathology*, 96, S37-S37., Peer Reviewed/Refereed
- (2006). Ecological genomics and epidemiology. *Eur J Plant Pathol*, 115, 35-51., Peer Reviewed/Refereed
- (2006). Genetic background of *Xanthomonas oryzae* pv *oryzae* strains influences the function of specific avirulence genes. *Phytopathology*, 96, S121-S121., Peer Reviewed/Refereed
- (2006). Sequencing multiple and diverse rice varieties. *Connecting whole-genome variation with phenotypes Plant Physiol*, 141, 26-31., Peer Reviewed/Refereed
- (2006). Suppression of defense response in plants by the *avrBs3/pthA* gene family of *Xanthomonas* spp. *Mol Plant Microbe In*, 19, 342-349., Peer Reviewed/Refereed
- (2006). Three new *Xanthomonas* genome sequences and comparative analyses of pathogenesis associated gene clusters. *Phytopathology*, 96, S70-S71., Peer Reviewed/Refereed
- (2005). Identification and characterization of IS1112 and IS1113 insertion element sequences in *Xanthomonas oryzae* pv *oryzae*. *DNA Sequence*, 16, 75-79., Peer Reviewed/Refereed
- (2005). Utilization of simply-inherited components of nonhost resistance. *Phytopathology*, 95, S137-S137., Peer Reviewed/Refereed
- (2004). Approaches to achieve durable disease resistance in rice. *Phytopathology*, 94, S135-S135., Peer Reviewed/Refereed
- (2004). Association between molecular markers and blast resistance in an advanced backcross population of rice. *Theor Appl Genet*, 108, 1024-1032., Peer Reviewed/Refereed
- (2004). Detection of deletion mutants in spotted arrays. *Phytopathology*, 94, S90-S90., Peer Reviewed/Refereed
- (2004). Isolation of bacteria identified in the rice genome sequence. *Phytopathology*, 94, S65-S66., Peer Reviewed/Refereed
- (2004). Looking ahead in rice disease research and management. *Crit Rev Plant Sci*, 23, 103-127., Peer Reviewed/Refereed
- (2004). Molecular characterization of the *avrXa7* locus from *Xanthomonas oryzae* pv *oryzae* field isolates. *Physiol Mol Plant P*, 64, 145-153., Peer Reviewed/Refereed
- (2004). Rice bacterial blight resistance genes *Xa7*, *xa5*, and *Xa4* confer resistance during all developmental stages. *Phytopathology*, 94, S61-S62., Peer Reviewed/Refereed
- (2004). The *avrRxo1* gene from the rice pathogen *Xanthomonas oryzae* pv *oryzicola* confers a nonhost Defense

- reaction on maize with resistance gene Rxo1. *Mol Plant Microbe In*, 17, 771-779., Peer Reviewed/Refereed
- (2004). The Rxo1/Rba1 locus of maize controls resistance reactions to pathogenic and non-host bacteria. *Theor Appl Genet*, 109, 71-79., Peer Reviewed/Refereed
- (2003). A plant-associated microbe genome initiative. *Phytopathology*, 93, 524-527., Peer Reviewed/Refereed
- (2003). Bacterial effectors in plant disease and defense. *Plant Dis*, 87, 1272-1282., Peer Reviewed/Refereed
- (2003). Candidate Defense genes from rice, barley, and maize and their association with qualitative and quantitative resistance in rice. *Mol Plant Microbe In*, 16, 14-24., Peer Reviewed/Refereed
- (2003). Functional analysis of the 3' end of avrBs3/pthA genes from two Xanthomonas species. *Physiol Mol Plant P*, 63, 329-338., Peer Reviewed/Refereed
- (2003). High phosphorylase activity is correlated with increased potato minituber formation and starch content during extended clinorotation. *Adv Space Res*, 31, 2245-2251., Peer Reviewed/Refereed
- (2003). Rice phospholipase D isoforms show differential cellular location and gene induction. *Plant Cell Physiol*, 44, 1013-1026., Peer Reviewed/Refereed
- (2002). Diversity in nucleotide binding site-leucine-rich repeat genes in cereals. *Genome Res*, 12, 1871-1884., Peer Reviewed/Refereed
- (2002). Future prospects for developing disease resistant plants. *Transgenic Res*, 11, 597-598., Peer Reviewed/Refereed
- (2002). Plant-associated microbe genome initiative. *Asm News*, 68, 529-529., Peer Reviewed/Refereed
- (2001). Diagnostic primers for the detection of Xanthomonas oryzae pv oryzicola. *Philipp Agric Sci*, 84, 408-418., Peer Reviewed/Refereed
- (2001). Dissection of defence response pathways in rice. *Novart Fdn Symp*, 236, 190-204., Peer Reviewed/Refereed
- (2001). Growth in microgravity increases susceptibility of soybean to a fungal pathogen. *Plant Cell Physiol*, 42, 657-664., Peer Reviewed/Refereed
- (2001). Pathogen fitness penalty as a predictor of durability of disease resistance genes. *Annu Rev Phytopathol*, 39, 187-224., Peer Reviewed/Refereed
- (2001). Trafficking of plant defense response compounds. *Philipp Agric Sci*, 84, 240-250., Peer Reviewed/Refereed
- (2001). Vascular defense responses in rice. *Mol Plant Microbe In*, 14, 1411-1419., Peer Reviewed/Refereed
- (2000). Predicting durability of a disease resistance gene based on an assessment of the fitness loss and epidemiological consequences of avirulence gene mutation. *P Natl Acad Sci USA*, 97, 13500-13505., Peer Reviewed/Refereed
- (2000). Xanthomonas oryzae pv oryzae avirulence genes contribute differently and specifically to pathogen aggressiveness. *Mol Plant Microbe In*, 13, 1322-1329., Peer Reviewed/Refereed

- (1999). Analysis of DNA polymorphism and virulence in Philippine strains of *Xanthomonas oryzae* pv *oryzicola*. *Plant Dis*, 83, 434-440., Peer Reviewed/Refereed
- (1999). Genomic mapping of defense response genes in wheat. *Theor Appl Genet*, 98, 226-233., Peer Reviewed/Refereed
- (1999). Genotypic and pathotypic diversity in *Xanthomonas oryzae* pv *oryzae* in Nepal. *Phytopathology*, 89, 687-694., Peer Reviewed/Refereed
- (1998). Distribution of *Xanthomonas oryzae* pv *oryzae* DNA modification systems in Asia. *Appl Environ Microb*, 64, 1663-1668., Peer Reviewed/Refereed
- (1998). Epidemic development of bacterial blight on rice carrying resistance genes Xa-4, Xa-7, and Xa-10. *Plant Dis*, 82, 1337-1340., Peer Reviewed/Refereed
- (1997). Differential induction of a peroxidase gene family during infection of rice by *Xanthomonas oryzae* pv *oryzae*. *Mol Plant Microbe In*, 10, 861-871., Peer Reviewed/Refereed
- (1997). Genomic variability of the *Xanthomonas* pathovar *mangiferaeindicae*, agent of mango bacterial black spot. *Appl Environ Microb*, 63, 246-253., Peer Reviewed/Refereed
- (1997). Movement of *Xanthomonas oryzae* pv *oryzae* in southeast Asia detected using PCR-based DNA fingerprinting. *Phytopathology*, 87, 302-309., Peer Reviewed/Refereed
- (1996). Bacterial avirulence genes. *Annu Rev Phytopathol*, 34, 153-179., Peer Reviewed/Refereed
- (1996). Changes in the plasma membrane distribution of rice phospholipase D during resistant interactions with *Xanthomonas oryzae* pv *oryzae*. *Plant Cell*, 8, 1079-1090., Peer Reviewed/Refereed
- (1996). Genes and proteins involved in aggressiveness and avirulence of *Xanthomonas oryzae* pv *oryzae* to rice. *Phytopathology*, 87, 191-196., Peer Reviewed/Refereed
- (1996). Hierarchical analysis of spatial variation of the rice bacterial blight pathogen across diverse agroecosystems in the Philippines. *Phytopathology*, 86, 241-252., Peer Reviewed/Refereed
- (1996). Induction of defense responses in rice. *Annu Rev Phytopathol*, 34, 115-128., Peer Reviewed/Refereed
- (1996). Measurement of haplotypic variation in *Xanthomonas oryzae* within a single field by rep-PCR and RFLP analyses. *Phytopathology*, 86, 1352-1359., Peer Reviewed/Refereed
- (1995). A Homolog of an Escherichia-Coli Phosphate-Binding Protein Gene from *Xanthomonas-Oryzae* Pv *Oryzae*. *DNA Sequence*, 5, 299-305., Peer Reviewed/Refereed
- (1995). Application Method Affects the Distribution and Efficacy of Rhizobacteria Suppressive of Downy Brome (*Bromus-Tectorum*). *Soil Biol Biochem*, 27, 1271-1278., Peer Reviewed/Refereed
- (1995). Genetic Diversity of *Xanthomonas-Oryzae* Pv *Oryzae* in Asia. *Appl Environ Microb*, 61, 966-971., Peer Reviewed/Refereed
- (1995). Population Biology of *Xanthomonas-Oryzae* Pv *Oryzae* and Approaches to Its Control. *Curr Opin Biotech*, 6, 298-304., Peer Reviewed/Refereed
- (1995). Rice Cationic Peroxidase Accumulates in Xylem Vessels during Incompatible Interactions with

- Xanthomonas-Oryzae Pv Oryzae. *Plant Physiol*, 107, 1333-1341., Peer Reviewed/Refereed
- (1994). Analysis of the Interaction between Xanthomonas-Oryzae Pv Oryzae and the Rice Cultivars Ir24 and Irbb21. *Phytopathology*, 84, 392-397., Peer Reviewed/Refereed
- (1994). Avrxa10 Protein Is in the Cytoplasm of Xanthomonas-Oryzae Pv Oryzae. *Mol Plant Microbe In*, 7, 799-804., Peer Reviewed/Refereed
- (1994). Identification of an Avirulence Gene Family in Xanthomonas-Oryzae Pv Oryzae. *Colloq Inra*, 66, 441-446., Peer Reviewed/Refereed
- (1994). Identification of the Xorii Methyltransferase Gene and a Vsr Homolog from Xanthomonas-Oryzae Pv Oryzae. *Mol Gen Genet*, 244, 383-390., Peer Reviewed/Refereed
- (1994). Relationship between Phylogeny and Pathotype for the Bacterial-Blight Pathogen of Rice. *Appl Environ Microb*, 60, 3275-3283., Peer Reviewed/Refereed
- (1993). A Family of Avirulence Genes from Xanthomonas-Oryzae Pv Oryzae Is Involved in Resistant Interactions in Rice. *Curr Plant Sci Biot*, 14, 221-230., Peer Reviewed/Refereed
- (1993). Effect of Light on Incompatible Interactions between Xanthomonas-Oryzae Pv Oryzae and Rice. *Physiol Mol Plant P*, 42, 413-425., Peer Reviewed/Refereed
- (1993). Focus on Bacterial-Blight of Rice. *Plant Dis*, 77, 12-May., Peer Reviewed/Refereed
- (1992). Assessment of Genetic Diversity and Population-Structure of Xanthomonas-Oryzae Pv Oryzae with a Repetitive DNA Element. *Appl Environ Microb*, 58, 2188-2195., Peer Reviewed/Refereed
- (1992). Identification of a Family of Avirulence Genes from Xanthomonas-Oryzae Pv Oryzae. *Mol Plant Microbe In*, 5, 451-459., Peer Reviewed/Refereed
- (1992). Increased Activity of a Cationic Peroxidase Associated with an Incompatible Interaction between Xanthomonas-Oryzae Pv Oryzae and Rice (Oryza-Sativa). *Plant Physiol*, 99, 1044-1050., Peer Reviewed/Refereed
- (1991). Characterization of Strains of Xanthomonas-Campestris Pv Holcicola by Page of Membrane-Proteins and by Rea and Rflp Analysis of Genomic DNA. *Plant Dis*, 75, 32-36., Peer Reviewed/Refereed
- (1991). Race-Specific Resistance to Xanthomonas-Oryzae Pv Oryzae Conferred by Bacterial-Blight Resistance Gene Xa-10 in Rice (Oryza-Sativa) Involves Accumulation of a Lignin-Like Substance in Host Tissues. *Physiol Mol Plant P*, 38, 39-55., Peer Reviewed/Refereed
- (1990). A Repetitive DNA-Sequence Differentiates Xanthomonas-Campestris Pv Oryzae from Other Pathovars of Xanthomonas-Campestris. *Mol Plant Microbe In*, 3, 238-246., Peer Reviewed/Refereed
- (1990). Purification of a Cultivar-Specific Toxin from Pyrenophora-Tritici-Repentis, Causal Agent of Tan Spot of Wheat. *Mol Plant Microbe In*, 3, 221-224., Peer Reviewed/Refereed
- (1989). Examination of Rice Hydathode Water Pores Exposed to Xanthomonas-Campestris Pv Oryzae. *Phytopathology*, 79, 433-436., Peer Reviewed/Refereed
- (1989). Growth Dynamics of Xanthomonas-Campestris Pv Oryzae in Leaves of Rice Differential Cultivars. *Phytopathology*, 79, 573-578., Peer Reviewed/Refereed

- (1989). Identification of Low-Virulence Strains of *Xanthomonas-Campestris* Pv *Oryzae* from Rice in the United-States. *Phytopathology*, 79, 984-990., Peer Reviewed/Refereed
- (1989). *Pseudomonas-Avenae*, Causal Agent of Bacterial Leaf Stripe of Pearl-Millet. *Plant Dis*, 73, 1010-1014., Peer Reviewed/Refereed
- (1987). Dot-Immunobinding Assay for Detecting *Xanthomonas-Campestris* Pv *Holcicola* in Sorghum. *Plant Dis*, 71, 30-33., Peer Reviewed/Refereed
- (1987). Examination of Hydathode Water Pore Plugging in Rice Exposed to Compatible and Incompatible *Xanthomonas-Campestris* Pv *Oryzae* Races. *Phytopathology*, 77, 1750-1750., Peer Reviewed/Refereed
- (1987). Extracellular Protease of *Erwinia-Carotovora* Subsp *Carotovora* - Characterization and Involvement in Soft-Rot Pathogenesis. *Phytopathology*, 77, 1736-1736., Peer Reviewed/Refereed
- (1987). *Pseudomonas-Avenae*, the Causal Agent of Bacterial Leaf Stripe of Pearl-Millet in Nigeria. *Phytopathology*, 77, 1766-1766., Peer Reviewed/Refereed
- (1987). Restriction Fragment Length Polymorphism Analysis of the *Xanthomonas-Campestris* Pv *Oryzae* Genome for Differentiation of Races. *Phytopathology*, 77, 1767-1767., Peer Reviewed/Refereed
- (1986). Involvement of a Toxin in the Symptomatology of Tan Spot of Wheat. *Phytopathology*, 76, 1125-1125., Peer Reviewed/Refereed
- (1986). Mechanisms for Resistance of Rice to *Xanthomonas-Campestris* Pv *Oryzae* - Reinducible Plugging of Water Pores. *J Cell Biochem*, 76, 20-20., Peer Reviewed/Refereed
- (1986). Populations of *Xanthomonas-Campestris* Pv *Oryzae* in Differential Rice (*Oryza-Sativa-L*) Cultivars. *Phytopathology*, 76, 1140-1140., Peer Reviewed/Refereed

Refereed Chapters in Books

- Vera Cruz, C. M., B, C., Nguyen, M. H., Lang, J. M., Mew, T. W., Leach, J. E. (2016). Detection of *Xanthomonas oryzae* pv. *oryzae*, and *X. oryzae* pv. *oryzicola* in rice seeds. *APS Manual on Detection of Plant Pathogenic Bacteria in Seed and Other Planting Material.*: APS Press., Peer Reviewed/Refereed
- Leach, J. E., Leung, H., Tisserat, N. A. (2014). *Disease and Resistance* (vol. 4, pp. 360-374): Encyclopedia of Agriculture and Food Systems., Peer Reviewed/Refereed

Non-Refereed Journal Articles

- Langlois, P. A., Snelling, J. W., Hamilton, J., Bragard, C., Koebnik, R., Verdier, V., Triplett, L. R., Blom, J., Tisserat, N. A., Leach, J. E. (2017). Characterization of the *Xanthomonas translucens* complex using draft genomes, comparative genomics, phylogenetic analysis, and diagnostic LAMP assays. *Phytopathology.*, Not Peer Reviewed/Refereed
- Cohen, S. P., Liu, H., Argues, C. T., Pereira, A., Cruz, C. V., Verdier, V., Leach, J. E. (2017). RNA-Seq analysis reveals insight into enhanced rice Xa7-mediated bacterial blight resistance at high temperature. *PLOS ONE*, 12(11)., Not Peer Reviewed/Refereed
- Wang, L., Y., Brummer, J. E., Zheng, J., Wilhelm, S., Leach, J. E. Establishment, Biomass Production, and Soil Carbon Analysis of Six SwiteCultivars Grown as an Energy Crop in a Semi-arid Environment. *Agron J.*, Not

Peer Reviewed/Refereed

- Ryan, E. P., Ghazi, I. A., Zarei, I., Wilburn, J. R., Leach, J. E., Rao, S., Broeckling, C. D., McClung, A., Mapesa, J. O. (2016). Rice Bran Extracts Inhibit Invasion and Intracellular Replication of *Salmonella typhimurium* in Mouse and Porcine Intestinal Epithelial Cells. *Medicinal & Aromatic Plants.*, Not Peer Reviewed/Refereed
- McCluskey, K., Alvarez, A., Bennett, R., Bokati, D., Boundy-Mills, K., Brown, D., Bull, C. T., Coffey, M., Dreaden, T., Duke, C., Dye, G., Ehmke, E., Eversole, K., Fenstermacher, K., Geiser, D., Glaeser, J. A., Greene, S., Gribble, L., Griffith, M. P., Hanser, K., Humber, R., Johnson, B. W., Kermode, A., Krichevsky, M., Laudon, M., Leach, J. E., Leslie, J., May, M., Melcher, U., Nobles, D., Fonseca, N. R., Robinson, S., Ryan, M., Scott, J., Silflow, C., Vidaver, A., Webb, K. M., Wertz, J. E., Yentsch, S., Zehr, S. (2016). The U.S. Culture Collection Network Lays the Foundation for Progress in Preservation of Valuable Microbial Resources. *Phytopathology*, 106(6), 532-40., Not Peer Reviewed/Refereed
- Triplett, L. R., Verdier, V., Campillo, T., Van Malderghem, C., Cleenwerck, I., Maes, M., Deblais, L., Corral, R., Koita, O., Cottyn, B., Leach, J. E. (2015). Characterization of a novel clade of *Xanthomonas* isolated from rice leaves in Mali and proposal of *Xanthomonas maliensis* sp. nov. *Antonie van Leeuwenhoek*, in press. link.springer.com/journal/10482/onlineFirst/page/1, Not Peer Reviewed/Refereed
- Campillo, T., Luna, E., Portier, P., Fishcer-LeSaux, M., Lapitan, N., Tisserat, N. A., Leach, J. E. (2015). *Erwinia iniecta* asp. Nov. is released into plant tissues while Russian wheat aphids (*Diuraphis noxiai*) feed. *International Journal of Systematic and Evolutionary Microbiology.*, Not Peer Reviewed/Refereed
- Sundaram, R. M., Chatterjee, S., Oliva, R., Laha, G. S., Cruz, C. V., Leach, J. E., Sonti, R. V. (2014). Update on Bacterial Blight of Rice: Fourth International Conference on Bacterial Blight. *Rice (New York, N.Y.)*, 7(1), 12., Not Peer Reviewed/Refereed
- Victoria, V., Haley, S. D., Pairs, F. B., Leach, J. E., Lapitan, N. L. (2014). Virus-induced gene silencing suggests that (1,3;1,4)- β -glucanase is a susceptibility factor in the compatible Russian wheat aphid-wheat interaction. *Mol. Plant-Microbe Int*, 27, 913-922., Not Peer Reviewed/Refereed
- Kumar, A., Henderson, A., Forster, G. M., Goodyear, A. W., Weir, T. L., Leach, J. E., Dow, S. W., Ryan, E. P. (2012). Dietary rice bran promotes resistance to *Salmonella enterica* serovar Typhimurium colonization in mice. *BMC Microbiol*, 12, 71., Not Peer Reviewed/Refereed
- (2011). Crop genome sequencing: lessons and rationales. *Trends in Plant Sciences*, doi: 10.1016/j.tplants.2010.10.005., 16, 77-88., Not Peer Reviewed/Refereed
- Jahn, C. E., McKay, J. K., Mauleon, R., Stephens, J., McNally, K. L., Bush, D. R., Leung, H., Leach, J. E. (2011). Genetic variation in biomass traits among 20 diverse rice varieties. *Plant physiology*, 155(1), 157-68., Not Peer Reviewed/Refereed
- Heuberger, A., Lewis, M. R., Chen, M. H., Brick, M. A., Leach, J. E., Ryan, E. P. (2010). Metabolomic and functional genomic analyses reveal varietal differences in bioactive compounds of cooked rice. *PLoS One*, 5(9), e12915., Not Peer Reviewed/Refereed
- Bush, D. R., Leach, J. E. (2007). Translational genomics for bioenergy production: There's room for more than one model. *PLANT CELL*, 19(10), 2971-2973., Not Peer Reviewed/Refereed

Non-Refereed Chapters in Books

- Vera Cruz, C. M., Cottyn, B., Nguyen, M. H., Lang, J., Mew, T. W., Leach, J. E. (2015). Detection of *Xanthomonas oryzae* pv. *oryzae*, and *X. oryzae* pv. *oryzicola* in rice. *APS Manual on Detection of Plant*

Pathogenic Bacteria in Seed and Planting Material.: APS Manual on Detection of Plant Pathogenic Bacteria in Seed and Planting Material., Not Peer Reviewed/Refereed

- Vera Cruz, C. M., Cottyn, B., Nguyen, M. H., Lang, J., Mew, T. W., Leach, J. E. (2014). Detection of *Xanthomonas oryzae* pv. *oryzae*, and *X. oryzae* pv. *oryzicola* in rice. *APS Manual on Detection of Plant Pathogenic Bacteria in Seed and Planting Material* (pp. Chapter 8).: APS Press., Not Peer Reviewed/Refereed
- Zhao, J., Zhang, S., Yang, T., Zeng, Z., Huang, Z., Liu, Q., Wang, X., Leach, J. E., Leung, H., Liu, B. (2015). *Global transcriptional profiling of a cold-tolerant rice variety under moderate cold stress reveals different cold stress response mechanisms*.: *Physiologia Plantarum*., Not Peer Reviewed/Refereed
- Wiersma, A., Gaines, T., Preston, C., Hamilton, J., Giacomini, D., Buell, C., Leach, J. E., Westra, P. (2015). *Gene amplification of 5-eno-pyruvylshikimate-3-phosphate synthase in glyphosate-resistant Kochia scoparia*.: *Planta*., Not Peer Reviewed/Refereed
- Wiersma, A. T., Gaines, T. A., Preston, C., Hamilton, J. P., Giacomini, D., Buell, C. R., Leach, J. E., Westra, P. (2015). *Gene amplification of 5-eno-pyruvylshikimate-3-phosphate synthase in glyphosate-resistant Kochia scoparia*.: *Planta*., Not Peer Reviewed/Refereed
- Tonnessen, B. P., Manosalva, P., Lang, J. M., Baraoidan, M., Bordeos, A., Mauleon, R., Oard, J., Hulbert, S., Leung, H., Leach, J. E. (2015). *Rice phenylalanine ammonia-lyase gene OsPAL4 is associated with broad spectrum disease resistance* (vol. 87, pp. 273-286).: *Plant Mol Biol*., Peer Reviewed/Refereed
- Tanger, P., Vega-Sánchez, M. E., Fleming, M., Tran, K., Singh, S., Abrahamson, J. B., Jahn, C. E., Santoro, N., Naredo, E. B., Baraoidan, M., Danku, J. M., Salt, D. E., McNally, K. L., Leung, H., Ronald, P. C., Bush, D. R., McKay, J. K., Leach, J. E. (2015). *Cell wall composition of rice straw varies among environments, varieties, and tissue types: impacts on bioenergy potential*.: *BioEnergy Research*. link.springer.com/article/10.1007%2Fs12155-014-9573-y, Peer Reviewed/Refereed
- Triplett, L., Verdier, V., Campillo, T., Van Malderghem, C., Maes, M., Deblais, L., Corral, R., Koita, O., Cottyn, B., Leach, J. E. (2015). *Characterization of a novel clade of Xanthomonas isolated from rice leaves in Mali and proposal of Xanthomonas maliensis sp. nov.*: *Antonie van Leeuwenhoek*. link.springer.com/journal/10482/onlineFirst/page/1, Not Peer Reviewed/Refereed
- Lang, J. M., Langlois, P., Nguyen, M., Purdie, L., Holton, T., Djikeng, A., Vera Cruz, C., Verdier, V., Leach, J. E. (2014). *Sensitive detection of Xanthomonas oryzae pv. oryzae and X. oryzae pv. oryzicola by Loop Mediated Isothermal Amplification* (vol. 80, pp. 4519-4530).: *Applied and Environmental Microbiology*., Peer Reviewed/Refereed
- Triplett, L. R., Koebnik, R., Verdier, V., Leach, J. E. (2014). The Genomics of *Xanthomonas oryzae*. In DC Gross, A Lichens-Park, and C Kole, Springer-Verlag Berlin Heidelberg (Ed.), *Genomics of Plant-Associated Bacteria* (pp. 127-150).: *Genomics of Plant-Associated Bacteria*., Peer Reviewed/Refereed
- Yu, C., Chen, H., Tian, F., Bi, Y. M., Rothstein, S. J., Leach, J. E., He, C. (2014). *Transcriptomic analysis of overlapping responses to Xanthomonas oryzae pv. oryzae infection and nitrogen deficiency revealed co-regulatory components in rice*.: N/A., Peer Reviewed/Refereed
- Valdez, V. A., Harley, S. D., Peairs, F. B., vanEck, L., Leach, J. E., Lapitan, N. (2014). *Virus-induced gene silencing suggests that (1,3;1,4)-beta-glucanase is a susceptibility factor in compatible Russian wheat aphid-wheat interactions* (pp. 913-922).: *Molecular Plant-Microbe Interact.*, Peer Reviewed/Refereed

- Tonnessen, B., Manosalva, P., Lang, J. M., Baraoidan, M., Bordeos, A., Mauleon, R., Oard, J., Hulbert, S., Leung, H., Leach, J. E. (2014). *Rice phenylalanine ammonia-lyase gene OsPAL4 is associated with broad spectrum disease resistance* (pp. 273-286): Plant Molecular Biology., Not Peer Reviewed/Refereed
- Wang, G. L., Leach, J. E., Ronald, P., Leung, H. (2013). *Loving Memories of Dr. Ko Shimamoto.*: Rice., Not Peer Reviewed/Refereed
- (2011). *Genome analyses to understand durable disease resistance in rice* (pp. 73-79): Genome-Enabled Integration of Research in Plant Pathogen Systems, T Wolpert, T Shiraishi, J Glazebrook,(eds), APS Press, Minneapolis, MN., Peer Reviewed/Refereed
- (2011). *Genome-Enabled Integration of Research in Plant Pathogen Systems (Synopsis)* (pp. 257-259): T Wolpert, T Shiraishi, J Glazebrook,(eds), APS Press, Minneapolis, MN., Peer Reviewed/Refereed
- (2010). *Bioinformatic strategies for predicting candidate genes under disease resistance QTL* (vol. 100, pp. S164): Phytopathology., Not Peer Reviewed/Refereed
- (2010). *Dissecting QTL: The genes that contribute to disease resistance revealed* (vol. 100, pp. S157): Phytopathology., Not Peer Reviewed/Refereed
- (2010). *Genetic Variation In Biomass Traits Among 20 Diverse Rice Varieties.*: Plant and Animal Genome XVIII San Diego, CA January 9-13 http://www.intl-pag.org/18/abstracts/P05b_PAGXVIII_241.html., Not Peer Reviewed/Refereed
- Leach, J. E., Davidson, R., Mauleon, R., Carillo, G., Jahn, C., Snelling, J., Bruce, M., Heuberger, A., Ishihara, H., Tanger, P., Stephens, J., Vera Cruz, C., Leung, H. (2010). Genome analyses to understand durable disease resistance in rice. In T. Wolpert, T. Shiraishi, J. Glazebrook (Ed.), *Genome-enabled Integration of Research in Plant Pathogen Systems* (pp. 73-79): APS Press., Not Peer Reviewed/Refereed
- (2010). *Genomewide SNP Patterns In Rice Reveal Historical And Recent Introgressions.*: Plant and Animal Genome XVIII San Diego, CA January 9-13 http://www.intl-pag.org/18/abstracts/W18_PAGXVIII_140.html., Not Peer Reviewed/Refereed
- (2010). *Genomics-based diagnostic marker development for bacterial plant pathogens.*: Symposium presentation at the 12th International Conference on Plant Pathogenic Bacteria, St Denis, La Reunion, France June 7- 11 <http://www.icppb2010.org/>., Not Peer Reviewed/Refereed
- (2010). *Looking ahead in genomics of plant-associated microbes* (vol. 100, pp. S167): Phytopathology., Not Peer Reviewed/Refereed
- Heuberger, A. L., Lewis, M. R., Chen, M. H., Brick, M. A., Leach, J. E., Ryan, E. P. *Metabolic and functional genomic analyses reveal varietal differences in bioactive compounds of cooked rice.*: PLoS One. www.plosone.org/article/info:doi/10.1371/journal.pone.0012915, Peer Reviewed/Refereed
- (2010). *Screening a diverse set of rice varieties for variation in biomass and resistance to plant disease.*: Poster presentation at the 10th Japan- US Seminar: Genome-Enabled Integration of Research in Plant Pathogen Systems January 24- 28, Corvallis, OR., Not Peer Reviewed/Refereed
- (2010). *Sequence data of Xanthomonas strains isolated from US rice fields reveals substantial divergence from Xanthomonas oryzae pvs oryzae and oryzicola* (vol. 100, pp. S127): Phytopathology., Not Peer Reviewed/Refereed
- (2010). *Understanding The Genetic Architecture Of Broad-Spectrum Disease Resistance Through Genome Scans*

Of Rice Mutants.: Plant and Animal Genome XVIII SanDiego, CA January 9-13 http://www.intl-pagorg/18/abstracts/W36_PAGXVIII_282.html., Not Peer Reviewed/Refereed

Qu, S., Bellizzi, M., Jeon, J.-S., Ouwerkerk, P., Leach, J. E., Ronald, P., Wang, G. *Construction and application of efficient Ac-Ds transposon tagging vectors in rice* (vol. 51, pp. 982-992).: Journal Integrated Plant Biology., Peer Reviewed/Refereed

Carrillo, M. G., Goodwin, P. H., Leach, J. E., Leung, H., Vera Cruz, C. M. *Phylogenomic relationships of rice oxalate oxidases to the cupin superfamily and their association with disease resistance QTL* (vol. 2, pp. 67-79).: RICE., Peer Reviewed/Refereed

Bin, L., Zhu, X. Y., Zhang, S., Wu, J., Han, S. S., Cho, Y. C., Roh, J. H., Leach, J. E., Liu, Y., Madamba, S., Bordeos, A., Baraoidan, M., Ona, I., Vera Cruz, C., Leung, H. (2009). What it takes to achieve durable resistance to rice blast? In G.-L. Wang, B. Valent (Ed.), *Advances in Genetics, Genomics and Control of Rice Blast Disease* (pp. 385-402).: Springer Science+Business Media., Not Peer Reviewed/Refereed

Abstract

Tanger, P., Vega-Sanchez, M., Jahn, C. E., Santoro, N., Ronald, P., McKay, J. K., Bush, D., Leach, J. E. (2013). *Environmental variation in plant cell wall composition and implications for bioenergy.*: Colorado Center for Biorefining and Biofuels., Not Peer Reviewed/Refereed

Book Editor

Leach, J. E. (2013). In N. Van Alfen, J.E.Leach, S. Lindow (Ed.), *Annual Review of Phytopathology* (vol. 51).: Annual Reviews of Phytopathology., Not Peer Reviewed/Refereed

Leach, J. E. (2012). In N. Van Alfen, J.E.Leach, S. Lindow (Ed.), *Annual Review of Phytopathology* (vol. 50).: Annual Reviews of Phytopathology., Not Peer Reviewed/Refereed

Leach, J. E. (2011). In N. Van Alfen, J.E.Leach, S. Lindow (Ed.), *Annual Review of Phytopathology* (49th ed.).: Annual Reviews of Phytopathology., Not Peer Reviewed/Refereed

Leach, J. E. (2010). In N. Van Alfen, J.E.Leach, S. Lindow (Ed.), *Annual Review of Phytopathology* (vol. 48).: Annual Reviews of Phytopathology., Not Peer Reviewed/Refereed

Manuscript

Goodyear, A., Kumar, A., Ehrhart, E. J., Swanson, K. S., Grusak, M. A., Leach, J. E., Dow, S. W., McClung, A., Ryan, E. P. (2015). *Dietary rice bran supplementation prevents Salmonella colonization differentially across varieties and by priming intestinal immunity* (A ed., vol. 18, pp. 653-664).: Journal of Functional Foods. http://ac.els-cdn.com/S1756464615004120/1-s2.0-S1756464615004120-main.pdf?_tid=3299e9b8-af4b-11e5-9fb4-00000aab0f02&acdnat=1451517501_17bcfd5bd070bf5870a8c57e88786027, Peer Reviewed/Refereed

Review

Leach, J. E., Triplett, L. R., Argueso, C., Trivedi, P. (2017). *Communication in the Phytobiome* (4th ed., vol. 169, pp. 587-596).: CELL., Not Peer Reviewed/Refereed

Synopsis

Leach, J. E., Tsuyumu, S. (2010). In T. Wolpert, T. Shiraishi, J. Glazebrook (Ed.), *Genome-Enabled Integration of Research in Plant Pathogen Systems* (pp. 257-259).: APS Press., Not Peer Reviewed/Refereed

Web Publication

Leach, J. E., Gold, S., Tolin, S., Eversole, K. (2002). *A Plant-Associated Microbe Genome Initiative: ISMPMI Newsletter*.: www.apsnet.org. www.ismpminet.org/pubs/pdf/aug02.pdf, Not Peer Reviewed/Refereed

Leach, J. E., Gold, S., Tolin, S., Eversole, K. (2002). *A Plant-Associated Microbe Genome Initiative: What is it and why do we need it?.*: www.apsnet.org. www.apsnet.org/online/feature/microbe/, Not Peer Reviewed/Refereed

comment, news

McKay, J. K., Leach, J. E. (2011). *Linkage illuminates a complex genome*. (8th ed., vol. 29, pp. 717-8).: Nature biotechnology., Not Peer Reviewed/Refereed

PERFORMANCES, EXHIBITS, PRODUCTIONS (Visual/Performing Arts):

Harnessing pathogen genomics to protect world grain supplies, San Diego, California

iPLANT Workshop

January 11, 2014 - Present, Responsible Gene Stewardship for Disease Resistance at the Plant and Animal Genome Meetings, San Diego, California

2013 - Present, The Genetic Landscapes of Wheat Rusts, San Diego, California

February 2012 - Present, Human Pathogens on Plants-A Multidisciplinary Strategy for Research

November 2003 - Present, 9th Japan-US Seminar, Genomic and genetic analysis of plant parasitism and definsse, Shizuoka, Japan

March 8, 2015 - March 13, 2015, 2015 Gordon Research Conference and Seminar on Chemical and Biological Terrorism Defense, Ventura, CA, United States

August 12, 2014, Understanding Phytobiomes to Improve Agricultural Productivity, Minneapolis, MN, United States

July 28, 2014 - August 1, 2014, Workshop on Burkholderia glumae and other important bacterial diseases of rice, United States

April 6, 2014 - April 12, 2014, Ecosystem Services Modeling to Manage the Emerging Infectious Plant Diseases of Africa, Bellagio, Italy

January 2014, A complete Harvest: the future of rice as a bioenergy crop, United States

June 30, 2013, Video Note | Jan Leach of Colorado State University on Rice Pathology, United States

July 13, 2009 - July 15, 2009, 3rd International Conference on Xanthomonas Genomics, Pingree, Colorado

September 16, 2002 - September 20, 2002, Symposium on Durable Resistance, Beijing, China

April 9, 2002 - April 11, 2002, Workshop on Genomic Analysis of Plant-Associated Microbes, Washington, DC

June 19, 1999 - June 23, 1999, 8th Japan-US Seminar, Marina del Ray, California

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

November 16, 2015, "Phytobiomes and Plant Health: Research and Policy", Soil Science Society of America, peer-reviewed/refereed.

November 13, 2015, "The Untapped Potential of Plant Microbiomes in Agriculture", Congressional Lunch & Learn Seminar, NCFAR, ASPB, APS, peer-reviewed/refereed.

November 13, 2015, "The Untapped Potential of Plant Microbiomes in Agriculture", Senate Seminar, NCFAR, ASPB, APS, peer-reviewed/refereed.

November 11, 2015, "Phytobiomes Roadmap Drafting Workshop", Nobel Foundation.

August 10, 2015, "Rice Research to Production Training Course", IRRI.

July 23, 2015, "Understanding Phytobiomes for Phytosequestration", ARPA-E Phytosequestration Workshop, peer-reviewed/refereed.

July 8, 2015, "Coping with combined stresses: Global warming and plant disease", 5th International Xanthomonas Genomics Conference, peer-reviewed/refereed.

July 6, 2015, "The plant side: plant responses to pathogens", Pre-conference Course in Molecular Plant-Microbe Interactions, Universidad de los Andes, peer-reviewed/refereed.

June 30, 2015, "Phytobiomes 2015: Designing a new paradigm for crop improvement".

June 20, 2015, "Phytobiomes: what are they and why do we care?", , Phytobiomes 2015: Designing a new paradigm for crop improvement, peer-reviewed/refereed.

June 11, 2015, "Global Grand Challenges: Nourishing the Future. CSU Research and Translation.", Colorado State University Research Program and Alumni Reception, peer-reviewed/refereed.

June 11, 2015, "How Will We Nourish our Planet in the Face of Projected Population Growth?", Colorado State University Research Program and Alumni Reception. Global Grand Challenges: CSU Research and Translation, CSU OVRP.

April 22, 2015, "Understanding non-host resistance in plants", Department of Plant Pathology, Texas A&M University, peer-reviewed/refereed.

April 14, 2015, "Understanding durable disease resistance in rice", , Department of Plant Pathology, Louisiana State University, peer-reviewed/refereed.

March 8, 2015, "2015 Gordon Research Conference and Seminar on Chemical and Biological Terrorism Defense".

February 23, 2015, "Field-scale high throughput phenotyping for biomass QTL", U.S. Department of Energy's Genomic Sciences Research Program PI meeting, DOE, peer-reviewed/refereed.

January 12, 2015, "Phytobiomes and Plant Health: Science and Policy", Exploring Phytobiomes Workshop, XXIII Plant and Animal Genome meetings, peer-reviewed/refereed.

January 12, 2015, "Phytobiomes and Plant Health: Science and Policy", Exploring Phytobiomes Workshop, XXIII Plant and Animal Genome meetings, San Diego, CA.

January 11, 2015, "Exploring Phytobiomes Workshop", Plant and Animal Genome Meeting, peer-reviewed/refereed.

January 11, 2015, "Understanding the Phytobiome for Improved Crop Productivity", The National Plant Genome Initiative -- Research Challenges and Resource Needs in Phenotyping, Cyberinfrastructure & Bioinformatics, and the Microbiome Workshop Speaker, XXIII Plant and Animal Genome meetings, San Diego, CA, peer-reviewed/refereed.

January 11, 2015, "Understanding the Phytobiome for Improved Crop Productivity. The National Plant Genome Initiative -- Research Challenges and Resource Needs in Phenotyping, Cyberinfrastructure & Bioinformatics, and the Microbiome Workshop", XXIII Plant and Animal Genome meetings, peer-reviewed/refereed.

January 10, 2015, "The Phytobiomes Initiative: Understanding Phytobiomes for improved crop productivity", Arthropod Genomics Workshop, XXIII Plant and Animal Genome meeting, peer-reviewed/refereed.

January 10, 2015, "The Phytobiomes Initiative: Understanding Phytobiomes for improved crop productivity", Arthropod Genomics Workshop, XXIII Plant and Animal Genome meetings, San Diego, CA, peer-reviewed/refereed.

January 10, 2015, "New Approaches for Developing Disease Resistance in Cereals", Plant and Animal Genome Meeting, peer-reviewed/refereed.

2014, "Understanding genome-wide defense gene regulation to improve crop disease resistance", 2014 APS Annual Meetings, Minneapolis, MN.

2014, "A novel rice resistance phenotype to *Xanthomonas oryzae* TAL effectors does not require the effector transcriptional activation domain", APS Annual Meetings, APS, Minneapolis, MN, peer-reviewed/refereed.

2014, "OsVOZ transcription factors negatively regulate defense responses in rice and impact RXO1-mediated immunity", International Society for Molecular Plant-Microbe Interactions Meetings, ISMPMI, Rhodes, Greece, peer-reviewed/refereed.

November 26, 2014, "Connecting Phytobiomes and Plant Health: Science and Policy", IRD, Montpellier, France.

November 24, 2014, "Introduction to bacterial diseases due to *Xanthomonas* and control strategies", Rice Disease Workshop: Improving epidemiology and disease diagnosis for sustainable management, IRD, IRD-CIRAD Montpellier, France, peer-reviewed/refereed.

November 16, 2014, "Rice genome-enabled insights into plant biology and agriculture", International Symposium on Rice Functional Genomics, IRFGC, Tucson, AZ.

November 16, 2014, "Traditional and field scale high throughput phenotyping reveal multiple QTL from a large mapping population", International Symposium on Rice Functional Genomics, IRFGC, Tucson, AZ.

November 16, 2014, "Understanding genome-wide defense response gene regulation to improve crop disease resistance", International Symposium on Rice Functional Genomics, IRFGC, Tucson, AZ.

November 12, 2014, "Connecting Phytobiomes and Plant Health", Soil: It's Alive Webinar, USDA-ARS, Webinar.

October 28, 2014, "Field Scale High Throughput Phenotyping (HTP) for Gene Discovery and Agronomic Improvement", International Rice Congress, Bangkok, Thailand.

October 27, 2014, "Connecting Phytobiomes and Plant Health", International Rice Conference 2014, Bangkok, Thailand.

October 20, 2014, "Connecting Phytobiomes and Plant Health", DOW Agrochemical, Indianapolis, IN.

October 6, 2014, "Coping with combined stresses: Rice bacterial blight disease and global warming", Dept Plant Pathology, Michigan State University.

October 2, 2014, "Phytobiomes Initiative", Agricultural Experiment Station Directors Mtg, Jekyll Island, GA.

August 8, 2014, "Connecting Phytobiomes and Plant Health", Annual Meetings of the American Phytopathological Society, APS, Minneapolis, MN.

July 28, 2014, "Relevance of modern diagnostic tools for plant protection", Workshop on Burkholderia glumae and other important bacterial diseases of rice, CIAT, Cali, Colombia.

July 10, 2014, "Genome-Genome Interactions: Deciphering Plant-Pathogen Interactions", APS Pacific Division Meetings, Bozeman, MT.

July 9, 2014, "Loop mediated isothermal amplification (LAMP) for detection and identification of Xanthomonas translucens and its pathovars cerealis, poae, translucens and undulosa", 2014 APS Pacific Division Meetings, Bozeman, MT.

June 16, 2014, "The Xanthomonas secreted effector AvrRxo1 and its chaperone Arc1 act as a toxin-antitoxin system in bacteria", IPP, CAAS, Institute of Plant Protection, Chinese Academy of Agricultural Sciences.

June 11, 2014, "Translation of molecular biology and physiology to improve bioenergy traits in rice and sorghum", North Central Division American Phytopathological Society Mtg, Madison, WI.

June 9, 2014, "The Xanthomonas secreted effector AvrRxo1 and its chaperone Arc1 act as a toxin-antitoxin system in bacteria", 13th International Congress on Plant Pathogenic Bacteria, ICPP, Shanghai, China.

April 23, 2014, "Coping with combined stresses: Rice, global warming, and bacterial blight disease", Loomis Symposium, Iowa State University, Iowa State University.

April 8, 2014, "Bacterial diseases of rice in Africa: Resistance and Diagnosis", Emerging Infectious Plant Diseases of Africa in the Context of Ecosystem Services, Keck Foundation, Bellagio, Italy.

January 14, 2014, "The APS Phytobiomes Initiative", USDA-CSREE Listening Session, USDA, Omaha, NE.

January 10, 2014, "Straw composition variation between varieties, tissue types and environments and impacts on bioenergy performance", USDA/DOE Plant Feedstocks Genomics for Bioenergy PI/PD Meeting, DOE, Plant and Animal Genome Meegings, SanDiego, CA.

2013, "How to be a great graduate student".

2013, "Two Tales:
TAL Effectors & TAL-Deficient X.
oryzae: Tools to Identify Novel Sources
of BB Disease Resistance

Environmental Impacts on Rice Disease and Immunity".

December 12, 2013, "Are the *Xanthomonas oryzae* pathovars present in Mexico?", International Congress of Bacterial Blight, Hyderabad, India, peer-reviewed/refereed.

December 12, 2013, "Bacterial Blight of Rice: From Connections to Solutions", International Congress of Bacterial Blight, Hyderabad, India, peer-reviewed/refereed.

December 12, 2013, "Inverse responses of two major resistance genes against bacterial blight of rice and drought at different temperature regimes", International Congress of Bacterial Blight, Hyderabad, India, peer-reviewed/refereed.

December 12, 2013, "*X. oryzae*-USXo X11-5A: a tool to study TAL effector function and disease resistance", International Congress of Bacterial Blight, Hyderabad, India, peer-reviewed/refereed.

November 6, 2013, "Identification of novel resistance sources for bacterial diseases in rice using a multi-parent recombinant population", 7th International Rice Genetics Symposium, (Presenter) Raghavan, C., Manila, Philippines.

November 5, 2013, "14-3-3 proteins (GF14b and GF14e) function in panicle blast resistance in rice", 7th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.

November 5, 2013, "Impacts of rising temperatures on R-gene-mediated resistance in rice", 7th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.

November 5, 2013, "Impacts of rising temperatures on R-gene-mediated resistance in rice", 7th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.

November 3, 2013, "Tractor Based Precision Phenotyping of Diverse Rice Populations in the Field.", Annual Meeting Crop Science Society of America, Crop Science Society of America, (Presenter) Klassen, S., Tampa, FL.

October 17, 2013, "Environmental variation in plant cell wall composition and implications for bioenergy", Colorado Center for Biorefining and Biofuels Spring Semi-Annual Meeting, Colorado Center for Biorefining and Biofuels, (Presenter) Tanger, P., Fort Collins, CO.

August 25, 2013, "Detection of *Pseudomonas fuscovaginae* with LAMP", International Congress of Plant Pathology, Beijing, China, peer-reviewed/refereed.

August 25, 2013, "Influence on gene expression and a direct R gene interaction by OsVOZ1/2 in rice.", International Congress of Plant Pathology, (Presenter) Lang, J., Beijing, China.

August 25, 2013, "Plant pathology in a globalized economy", International Congress of Plant Pathology, (Presenter) Leach, J. E., Beijing, China.

August 25, 2013, "The Potential for Mis-Use of Scientific Research: Ethical Conundrums & Global Solutions", International Congress of Plant Pathology, Beijing, China, peer-reviewed/refereed.

August 24, 2013, "Characterizing OsVOZ1/2 in rice by a direct R gene interaction and transcriptome analysis", 2nd Beijing International Symposium on Molecular Plant Pathology, (Presenter) Lang, J., Beijing, China.

August 24, 2013, "Impacts of rising temperatures on R-gene-mediated resistance to rice bacterial blight", 2nd Beijing International Symposium on Molecular Plant Pathology, Beijing China, peer-reviewed/refereed.

August 10, 2013, ". Detection of *Xanthomonas oryzae* by loop-mediated isothermal amplification", 2013 Annual Meeting of the American Phytopathological Society, Austin, TX, peer-reviewed/refereed.

August 10, 2013, "Detection of *Xanthomonas oryzae* pathovars from rice seeds: An assay potentially viable for use in seed trade and germplasm exchange", 2013 Annual Meeting of the American Phytopathological Society, Austin, TX, peer-reviewed/refereed.

August 10, 2013, "Loop-mediated isothermal amplification for the detection of *Pseudomonas fuscovaginae*", 2013 Annual Meeting of the American Phytopathological Society, Austin, TX, peer-reviewed/refereed.

August 10, 2013, "Novel species of Enterobacteriaceae isolated from Russian wheat aphid (*Diuraphis noxia*)", 2013 Annual Meeting of the American Phytopathological Society, Austin, TX, peer-reviewed/refereed.

August 10, 2013, "'A pipeline for automated diagnostic primer design based on genomic sequence alignment of target and non-target genomes.'", 2013 Annual Meeting of the American Phytopathological Society, Austin, TX, peer-reviewed/refereed.

August 10, 2013, "'AvrRxo1 is a virulence factor that suppresses growth of eukaryotic and prokaryotic cells.'", 2013 Annual Meeting of the American Phytopathological Society, Austin, TX, peer-reviewed/refereed.

August 10, 2013, "'Synthetic detection circuits targeting *Xylella* diffusible signal factor in bacteria and plants.'", 2013 Annual Meeting of the American Phytopathological Society, Austin, TX, peer-reviewed/refereed.

August 10, 2013, "Rice phenylalanine ammonia lyase 4 gene (*OsPAL4*) is associated with broad spectrum disease resistance", 2013 Annual Meeting of the American Phytopathological Society., Austin, TX, peer-reviewed/refereed.

August 10, 2013, "Identifying novel bacterial disease resistance sources for rice", Annual Meeting of the American Phytopathological Society, APS, (Presenter) Bossa-Castro, A., Austin, TX.

August 10, 2013, "Impacts of temperature on expression of TAL effector-activated susceptibility genes in rice", Annual Meeting of the American Phytopathological Society, (Presenter) Corral, R., Austin, TX.

April 24, 2013, "Tomorrow's Rice", US-AID, Washginton, DC.

April 15, 2013, "A recovery plan for *Xanthomonas oryzae* pathovars", National Plant Disease Recovery System Program, USDA-ARS, Falls Church, VA.

March 6, 2013, "Tapping genetic variation to improve biomass traits", Director's Colloquium Series: Los Alamos Natl Lab, Los Alamos Natl Lab, Los Alamos, NM.

January 29, 2013, "Two Tales: TAL effectors and disease resistance and Environmental impacts on disease resistance", Invited Seminar, Universidad de los Andes, Bogata, Colombia.

January 14, 2013, "High Throughput Phenotyping for Bioenergy Traits: Measuring Natural Variation Using a Rice Mapping Population", Plant and Animal Genome XXI, San Diego, CA, peer-reviewed/refereed.

January 12, 2013, "Rice genomics tools reveal a WRKY53 transcriptional network in wheat", Plant and Animal Genome meeting, NSF, San Diego.

2012, "2012 How to succeed in science: Tips for graduate school and beyond. Invited Seminar, Graduate School, Chinese Academy of Agricultural Sciences, Beijing, China, December 10."

2012, "2012 Comparative Genomics: a tool for development of diagnostic primers (plus more!). Training Workshop on Harmonizing Detection of *Xanthomonas oryzae* pathovars. International Rice Research Institute, Los Banos, Philippines. May 21-26, 2012".

2012, "2012 Environmental impacts on plant immunity. Invited Workshop Speaker, International Society of Plant-Microbe Interactions Congress. Kyoto, Japan. July 29-August 2."

2012, "2012 Environmental impacts on rice disease and immunity. Invited Seminar, Dept Plant Pathology and Microbiology, National Taiwan University, December 4."

2012, "2012 Food for a Hungry Planet: Challenges and Perspectives. <http://scisoc.confex.com/scisoc/2012am/w ebprogram/Paper76420.html>. CSSA Plenary Lecture (Betty Klepper Endowed Lectureship), ASA, CSSA, SSSA International Annual Meetings, Cincinnati, OH, Oct 23".

2012, "2012 TAL Effectors & TAL-deficient *X. oryzae*: Tools to identify novel sources of bacterial blight disease resistance. Plenary Speaker, 10th International Symposium on Rice Functional Genomics, Chiang Mai, Nov 26-29th."

2012, "2012 Two TALES: (1) TAL effectors & TAL deficient *X. oryzae*: Tools to identify novel sources of BB resistance, and (2) Environmental impacts on rice disease and immunity. Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing, China December 7."

2012, "2012 Understanding broad spectrum, durable disease resistance in rice.

Invited Seminar, Academica Sinca, Taipei, Taiwan, December 3."

2012, "2012 Understanding durable plant disease resistance. Invited Seminar, Guandong Academy of Agricultural Sciences, December 8."

2012, "2012 Wading through the murky paddies: understanding broad spectrum disease resistance. Invited Seminar, John Innes Institute, Norwich, UK, March 2".

2012, "2012 Wading through the murky paddies: understanding durable plant disease resistance. Invited Seminar, Purdue University, September 26."

2012, "2012. Omics Technologies to Tap Genetic Variation for Rice Improvement. Plenary Speaker. http://www.sivb.org/meetings/2012-World-Congress/meeting_program_W.htm#A-Omics. World Congress on In Vitro Biology, Bellvue, WA June 6, 2012."

2012, "2012. Perspectives on the Direction of Research in Plant Pathology. Opening Seminar Celebrating the 50th Anniversary of the Philippine Phytopathological Society, International Rice Research Institute, Los Banos, Philippines, May 14, 2012".

2012, "2012. The value of draft genomic sequence of rice-associated bacteria for understanding biology, diversity, and diagnosis. Invited Symposium Speaker, 4th Xanthomonas Genomics Conference 2012. Angers, France. July 9-12, 2012".

2012, "Measuring biomass quantity and composition. 2nd Global Rice Phenotyping Network Workshop/Meeting Invited speaker, Los Banos, Philippines Nov 22-24".

November 13, 2012, "Tapping Genetic Variation to Improve Biomass Traits", Sustainable Bioenergy Development Center CSU, Fort Collins, CO, peer-reviewed/refereed.

August 5, 2012, "High Throughput Phenotyping for Bioenergy Traits: Measuring Natural Variation Using a Rice Mapping Population", Gordon Conference on Plant Cell Walls, Waltham, MA, peer-reviewed/refereed.

August 4, 2012, "'TAL effectors enhance virulence on diverse rice varieties when introduced individually into a TAL effector-deficient strain of *Xanthomonas oryzae*.'" , 2012 annual meeting of the American Phytopathological Society, Providence, RI, peer-reviewed/refereed.

July 9, 2012, "'TAL effectors enhance virulence on diverse rice varieties when introduced individually into a TAL effector-deficient strain of *Xanthomonas oryzae*.'" , 2012 *Xanthomonas* Genomics Conference, Angers, France, peer-reviewed/refereed.

February 14, 2012, "'Lessons from *Xanthomonas oryzae* genomics and global networking.'" , 1st International Congress for Bacterial Diseases of Stone Fruits and Nuts, Zurich, Switzerland, peer-reviewed/refereed.

February 13, 2012, "'Synthetic biology applications for plant-based pathogen biosensing: progress and prospects.'" , American Phytopathological Society Human Pathogens on Plants Workshop, Hyattsville, Maryland, peer-reviewed/refereed.

January 30, 2012, "Analysis of the diversity of *Xanthomonas oryzae* pv. *oryzicola* from China", 10èmes Rencontres Plantes-Bactéries – Aussois 2012, Aussios, France, peer-reviewed/refereed.

January 14, 2012, "Comprehensive approach to improve biofuel feedstocks using rice as a model system", Plant and Animal Genome Meeting, San Diego, CA, peer-reviewed/refereed.

January 14, 2012, "Reference-guided de novo Genome Assembly of the Indica Type Rice Variety IR 64 Using Short-read Sequencing", Plant and Animal Genome Meeting, San Diego, CA, peer-reviewed/refereed.

2011, "A Rice 14-3-3 Protein Negatively Regulates Broad Spectrum Disease 2nd International Symposium on Genomics and Crop Genetic Improvement. Symposium speaker. Wuhan, China. July 5."

2011, "Bioenergy at CSU: Steps to an NSF-IGERT. Invited Speaker, Virginia Tech Bioenergy Networking Symposium, November 4."

2011, "Bordeos, A., C. E. Jahn, J. K. McKay, J. E. Leach, D. R. Bush, H. Leung.

2011. Biomass accumulation in wide crosses between wild and domesticated rice. DOE/USDA-NIFA Genomic Science Program Meeting, Crystal City, MD. April 10-13."

2011, "Broeckling, B., M. Baroidan, C. E. Jahn, J. K. McKay, J. E. Leach, D. R. Bush, H. Leung. 2011. Identification of candidate genes using rice mutants for biomass engineering in switchgrass. DOE/USDA-NIFA Genomic Science Program Meeting, Crystal City, MD. April 10-13."

2011, "Identifying Genes and Networks for

Increasing Biomass Production in New Energy Grasses by Using Rice as a Model System. Symposium speaker, DOE/USDA-NIFA PI meeting, Crystal City, MD. April 20".

2011, "J. Snelling, J. Hamilton, T. Adhikari, V. M. Verdier, C. Bragard, E. Duveiller, N. TISSERAT, C. Buell, J. E. Leach. 2011. Development of molecular diagnostic markers for *Xanthomonas translucens*. *Phytopathology* 101:S168".

2011, "Jahn, C.E., L. DeRose-Wilson, J. K. McKay, D. R. Bush, H. Leung, J. E. Leach. 2011. Night-time stomatal conductance and transpiration negatively impact biomass accumulation. DOE/USDA-NIFA Genomic Science Program Meeting, Crystal City, MD. April 10-13."

2011, "L. R. TRIPLETT, K. J. Morey, K. D. Albrecht, M. Ionescu, J. E. Leach, S. E. Lindow, N. A. Tisserat, J. I. Medford. 2011. Adapting synthetic gene circuits for plant-based detection of pathogen indicators: A test case. *Phytopathology* 101:S178".

2011, "Characterization of EPSPS gene amplification in glyphosate-resistant Palmer amaranth (*Amaranthus palmeri*)", *Plant and Animal Genome XIX*.

2011, "Glyphosate resistance due to EPSPS gene amplification in Palmer amaranth (*Amaranthus palmeri*)", *Rothamsted Resistance 2011*.

2011, "S. LEE, J. Snelling, S. Han, J. Park, J. Leach. 2011. Rice chitinase gene contributes to rice sheath blight disease resistance. *Phytopathology* 101:S100".

2011, "Sustainable Bioenergy Research at Colorado State University. Symposium speaker. Symposium of the East China Normal University-Colorado State University Joint Research Institute for New Energy and the Environment. Shanghai, China June 10".

2011, "Tanger, P. Jahn, C.E., Wolfrum, E., Santoro, N., Naredo Ma. E.B., Baraoidan M., Leung, H., McNally, K., McKay, J., Bush, D., Leach, J.E. 2011.

Development of high-throughput phenotyping methods to investigate cell wall composition. 9th International Symposium of Rice Functional Genomics, Taipei Taiwan. November 7-9, 2011. [Poster Presentation]".

2011, "The dual use dilemma. Symposium speaker. American Phytopathological Society Annual Meetings, Honolulu, August 7".

2011, "Understanding broad spectrum resistance in rice. Seminar speaker. Guandong Academy of Sciences, Guandong, China, July 11".

2011, "Understanding Genome Responses to Guide Crop Improvement. Seminar Speaker, Soils and Crops Department, CSU, December 1."

2011, "V. Verdier, L. R. TRIPLETT, R. Corral, J. E. Leach. 2011. Genome-enabled primer design to distinguish geographic origin of *Xanthomonas oryzae* pvs. *oryzicola* and *oryzae*. *Phytopathology* 101:S183".

2011, "Wading through murky paddies: clarifying broad spectrum resistance in rice. Seminar speaker. National Key Laboratory of Crop Genetic Improvement, Huazhong Agricultural University, Wuhan, China, July 4."

2011, "Wading through murky paddies: Understanding broad spectrum, durable resistance in plants. Invited Speaker: Nusbaum Symposium, North Carolina State University, March 30."

2011, "Wading through the murky paddies: Applying Concepts of Plant Immunity to Achieve Crop Security. Gordon Research Conference (GRC) on Chemical & Biological Terrorism Defense. Ventura, CA March 22-25."

2011, "Characterization of EPSPS gene amplification in glyphosate-resistant Palmer amaranth (*Amaranthus palmeri*)", Weed Science Society of America.

2010, "Davidson, P. A. Reeves, P. M.

Manosalva, J. E. Leach 2010.
Bioinformatic strategies for predicting
candidate genes under disease
resistance QTL *Phytopathology* 100:S164".

2010, "Hulbert,S; J.E.Leach.2010. Looking
ahead in genomics of plant-associated
microbes. *Phytopathology* 100:S167".

2010, "Jahn, C.E., I. Ona, J. Stephens, C.
Vera Cruz, D. Bush, H. Leung, J. McKay,
J.E. Leach. 2010. Screening a diverse
set of rice varieties for variation in
biomass and resistance to plant
disease. Poster presentation at the
10th Japan-US Seminar: Genome-Enabled
Integration of Research in Plant
Pathogen Systems. January 24-28,
Corvallis, OR."

2010, "Leach, J. E. 2010 Keeping Rice Bowls
Full: US-China
collaborations in rice improvement
research. Invited Symposium speaker,
International China Colloquium,
Colorado State University, Ft Collins
Sept 9."

2010, "Leach, J.E. 2010 Dissecting QTL: The
Genes that Contribute to Disease
Resistance Revealed. Invited Symposium
speaker, American Phytopathological
Society Annual Meetings, Charlotte,
August 9."

2010, "Leach, J.E. 2010 Genomics-based
diagnostic marker development for
bacterial pathogens. Plenary Speaker,
International Congress of
Phytopathogenic Bacteria, Ille de
Reunion, France, June 8."

2010, "Leach, J.E. 2010 Japan-US Seminar,
Genome analyses to understand durable
disease resistance in rice. Corvallis
Oregon, January 25-28."

2010, "Leach, J.E. 2010 Wading through murky
paddies: Clarifying broad spectrum
resistance in rice. Invited Plenary
Speaker, 5th International Rice Blast
Conference, Little Rock, AK, August 13."

2010, "Leach, J.E. 2010 Wading through the murky paddies: Clarifying broad spectrum disease resistance in rice. Invited Seminar Speaker, University of Delaware, May 7."

2010, "Leach, J.E. 2010 What do you do for a living? Evolving responses with shifting paradigms. Invited speaker, 100th Birthday of the Department of Plant Pathology, University of Wisconsin Madison. June 25."

2010, "Leach, J.E., Jahn, C.E., A. Bordeos, M. Baroidan, J. Stephens, E. Peachey, D. R. Bush, H. Leung, J. K. McKay. 2010. Genetic Variation In Biomass Traits Among 20 Diverse Rice Varieties. Plant and Animal Genome XVIII. San Diego, CA January 9-13. http://www.intl-pag.org/18/abstracts/P05b_PAGXVIII_241.html".

2010, "Leach, J.E., 2010 Codes of Conduct for the American Phytopathological Society. Invited participant and speaker, National Science Advisory Board on Biosecurity Roundtable on Codes of Conduct, Bethesda, MD, October 20."

2010, "Leach, J.E., J. Medford, S. Lindow, N. Tisserat. 2010. Development of Sentinel Plants for Detection of High Risk Pathogens. USDA-NIFA Project Director Meeting, APS Annual Meeting, Charlotte, NC, Aug. 9, 2010".

2010, "Leach, J.E., R. M. Davidson, J. Snelling, M. Bruce, H. Leung, C. M. Vera Cruz, 2010. Dissecting QTL: The genes that contribute to disease resistance revealed Phytopathology 100:S157".

2010, "Leung, H., M. Ayliffe, Z. Kang, S. Wang, Y. Jin, B. Steffenson, J. Leach. 2010. Understanding The Genetic Architecture Of Broad-Spectrum Disease Resistance Through Genome Scans Of Rice Mutants. Plant and Animal Genome XVIII. San Diego, CA January 9-13. <http://www.intl->

pag.org/18/abstracts/W36_PAGXVIII_282.html".

2010, "McNally, K., Childs, K., Bohnert, R., Davidson, R.M., Zhao, K., Ulat, V.J., Zeller, G., Clark, R.M., Hoen, D., Bureau, T., Stokowski, R., Ballinger, D., Frazer, K., Cox, D., Padhukasahasram, B., Bustamante, C., Weigel, D., Mackill, D., Bruskiewich, R., Ratsch, G., Buell, C. R., Leung, H. and Leach, J. E. 2010. Genomewide SNP Patterns In Rice Reveal Historical And Recent Introgressions. Plant and Animal Genome XVIII. SanDiego, CA January 9-13. http://www.intl-pag.org/18/abstracts/W18_PAGXVIII_140.html".

2010, "Triplett, L., J. P. Hamilton, N. A. Tisserat, C. R. Buell, J. E. Leach. 2010. Sequence data of Xanthomonas strains isolated from U.S. rice fields reveals substantial divergence from Xanthomonas oryzae pvs. oryzae and oryzicola. Phytopathology 100:S127".

2010, "Update on novel glyphosate resistance mechanism in Palmer amaranth. (Amaranthus palmeri)", Weed Science Society of America.

2009, "Molecular biology and genomics of glyphosate resistance in Palmer amaranth", Plant and Animal Genome.

2009, "A novel mechanism of resistance to glyphosate in Palmer amaranth (Amaranthus palmeri)", Weed Science Society of America.

November 16, 2009, "Dissecting QTL: The Genes that Contribute to Disease Resistance Revealed", 6th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.

November 16, 2009, "Dissection and utilization of defense response QTLs for quantitative resistance to rice blast", 6th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.

November 16, 2009, "Gene silencing reveals a role for oxalate oxidase in partial resistance to fungal pathogens", 6th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.

November 16, 2009, "Genetic variability and heritability of biomass traits in 20 diverse rice varieties", 6th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.

November 16, 2009, "Genomewide SNP patterns reveal historical and recent introgressions", 6th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.

November 16, 2009, "NBS-LRR gene clusters contributing to durable resistance to Magnaporthe oryzae in rice variety SHZ-2", 6th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.

- November 16, 2009, "Rice 14-3-3 protein GF14e negatively regulates cell death and resistance to bacterial blight", 6th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.
- November 16, 2009, "Rice genetic diversity assessment of the RiceSNP set using the GoldenGate genotyping assay and VeraCode technology", 6th International Rice Genetics Symposium, Manila, Philippines, peer-reviewed/refereed.
- October 25, 2009, "Connecting Whole Genome Variation with Phenotype: Lessons Learned from Rice Resequencing", 9th International Plant Molecular Biology meeting, St. Louis, MO, peer-reviewed/refereed.
- October 23, 2009, "QTL For Durable Disease Resistance: Breaking Through the Bottleneck", Virginia Tech, Virginia Tech, peer-reviewed/refereed.
- September 11, 2009, "A Perspective on Crop Genome Improvement", Soils and Crop Department 100th Birthday, Fort Collins, CO.
- August 25, 2009, "Dissecting QTL to Understand Broad Spectrum Durable Disease Resistance in Rice", Guangdong Academy of Agricultural Sciences & Guangdong Plant Pathology Society, Guangdong China, peer-reviewed/refereed.
- August 21, 2009, "Dissecting QTL to Understand Broad Spectrum Durable Disease Resistance", Yunan Agricultural University, Yunan, China, peer-reviewed/refereed.
- August 19, 2009, "Dissecting QTL to Understand Broad Spectrum Durable Disease Resistance", Chinese Chinese Society of Plant Pathology Meeting, Kunming, China, peer-reviewed/refereed.
- August 1, 2009, "Accumulating candidate genes for broad-spectrum resistance to rice blast in a drought-tolerant rice cultivar", Phytopathology 99:S19, Portland, OR, peer-reviewed/refereed.
- August 1, 2009, "Genomics based diagnostic marker development for *Xanthomonas oryzae* pv. *oryzae* and *X. oryzae* pv. *oryzicola*", Phytopathology 99:S69, Portland, OR, peer-reviewed/refereed.
- July 14, 2009, "Diverse bacterial plant pathogens contain homologs of the *Xanthomonas oryzae* pv. *oryzicola* avrRxo1 effector gene", *Xanthomonas* Genomics Conference, Pingree Park, CO, peer-reviewed/refereed.
- July 14, 2009, "Genomics based diagnostic marker development for *Xanthomonas oryzae* pv. *oryzae* and *X. oryzae* pv. *oryzicola*", *Xanthomonas* Genomics Conference, Pingree Park, CO, peer-reviewed/refereed.
- July 14, 2009, "Increased temperature favored effectiveness of a rice bacterial blight disease resistance gene", *Xanthomonas* Genomics Conference, Pingree Park, CO, peer-reviewed/refereed.
- July 14, 2009, "The Comprehensive Phytopathogen Genomics Resource", *Xanthomonas* Genomics Conference, Pingree Park, CO, peer-reviewed/refereed.
- June 19, 2009, "An NB-LRR binding protein: A switch for transcriptional reprogramming in plant immunity", XIV International Congress Molecular Plant-Microbe Interactions, Quebec, Canada, peer-reviewed/refereed.
- June 17, 2009, "International Collaborations", Bill and Melinda Gates Foundation meeting on US-Africa Connections, ILRI, Nairobi, Kenya.
- June 15, 2009, "Understanding Broad Spectrum Plant Disease Resistance", Biotechnology East and Central Africa (BECA), Nairobi, Kenya.

- May 7, 2009, "Towards Broad Spectrum Disease Resistance in Rice: An Intriguing Odyssey", Cornell University-Geneva, Geneva, peer-reviewed/refereed.
- May 6, 2009, "Towards Broad Spectrum Disease Resistance in Rice: An Intriguing Odyssey", Cornell University-Ithaca, invited by Graduate Student Colloquium, Ithaca, NY.
- January 9, 2009, "Functional Analyses Of Germin-Like Proteins And Oxalate Oxidases; Contributors To Basal Disease Resistance In Rice", Plant and Animal Genomes XVII, San Diego, CA, peer-reviewed/refereed.
- 2008, "Molecular genetics of glyphosate resistance and gene flow in *Amaranthus palmeri*", 5th International Weed Science Congress.
- 2008, "Molecular methods to study glyphosate-resistant Palmer amaranth (*Amaranthus palmeri*)", Weed Science Society of America.
- 2008, "Mechanisms of resistance and gene flow in glyphosate resistant Palmer amaranth", Western Society of Weed Science.
- 2007, "Molecular methods to study herbicide resistant weeds and inter-specific gene flow", National Scientific Conference – Convergence of genomics and the land-grant mission: Emerging trends in the application of genomics in agricultural research.
- 2007, "Transfer of glyphosate resistance from Palmer amaranth to related *Amaranthus* species", Southern Weed Science Society.
- 2007, "Glyphosate resistance mechanism in Palmer amaranth", Western Society of Weed Science.

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2017	Fall	BSPM799 - Dissertation	13	3
2017	Fall	CM799 - Dissertation	54	17
2017	Fall	BSPM698 - Research	77	14
2017	Fall	BSPM798 - Research	67	14
2017	Fall	BSPM699 - Thesis	11	4
2017	Spring	BSPM799 - Dissertation	13	5
2017	Spring	BSPM798 - Research	86	16
2016	Fall	BSPM799 - Dissertation	18	3
2016	Fall	CM795 - Independent Study	18	30
2016	Fall	BSPM798 - Research	18	18
2016	Spring	BSPM799 - Dissertation	18	4
2016	Spring	CM795 - Independent Study	18	29
2016	Spring	BSPM798 - Research	18	14
2016	Spring	BSPM699 - Thesis	18	4
2015	Fall	BSPM799 - Dissertation	18	6
2015	Fall	CM795 - Independent Study	18	28
2015	Fall	BI550B - Plant Bacteriology	1	30
2015	Fall	BSPM698 - Research	18	10
2015	Fall	BSPM798 - Research	18	9
2015	Fall	BSPM699 - Thesis	18	6
2015	Fall	BSPM502B - Topics in Plant Pathology-Plant Bacteriology	1	8
2015	Spring	BSPM361 - Elements of Plant Pathology	3	56

2015	Spring	BSPM361 - Elements of Plant Pathology - Lab	0	24
2015	Spring	CM795 - Independent Study	18	34
2015	Spring	BSPM698 - Research	18	6
2015	Spring	BSPM798 - Research	18	9
2015	Spring	BSPM699 - Thesis	18	6
2014	Fall	BSPM495 - Independent Study	3	2
2014	Fall	BSPM594 - Independent Study	3	2
2014	Fall	CM795 - Independent Study	18	32
2014	Fall	BSPM698 - Research	18	10
2014	Fall	BSPM798 - Research	18	8
2014	Summer	BSPM798 - Research	18	2
2014	Spring	BSPM450 - Molecular Plant-Microbe Interaction	3	0
2014	Spring	BSPM550 - Molecular Plant-Microbe Interactions	3	10
2014	Spring	BSPM698 - Research	18	7
2014	Spring	BSPM798 - Research	18	9
2013	Fall	AGRI601 - Bioenergy Technology	3	3
2013	Fall	AGRI601 - Bioenergy Technology - Lab	0	3
2013	Fall	BSPM495 - Independent Study	3	3
2013	Fall	CM595 - Independent Study	18	5
2013	Fall	BSPM798 - Research	18	11
2013	Fall	BSPM502B - Topics in Plant Pathology-Plant Bacteriology	1	5
2013	Summer	BSPM698 - Research	18	2
2013	Spring	BSPM495 - Independent Study	3	9
2013	Spring	BSPM698 - Research	18	9
2013	Spring	BSPM798 - Research	18	8
2013	Spring	BSPM699 - Thesis	18	6
2012	Fall	AGRI601 - Bioenergy Technology	3	4
2012	Fall	ENGR601 - Bioenergy Technology	3	2
2012	Fall	AGRI601 - Bioenergy Technology - Lab	0	4
2012	Fall	ENGR601 - Bioenergy Technology - Lab	0	2
2012	Fall	HORT495 - Independent Study	18	5
2012	Fall	BSPM698 - Research	18	7
2012	Fall	BSPM798 - Research	18	10
2012	Spring	BSPM450 - Molecular Plant-Microbe Interaction	3	2
2012	Spring	BSPM550 - Molecular Plant-Microbe Interactions	3	8
2012	Spring	BSPM698 - Research	18	10
2012	Spring	BSPM798 - Research	18	6
2011	Fall	AGRI680A1 - Bioenergy Technology	3	10
2011	Fall	AGRI680A1 - Bioenergy Technology - Lab	0	10
2011	Fall	BSPM798 - Research	18	8
2011	Fall	BSPM502B - Topics in Plant Pathology-Plant Bacteriology	1	0
2011	Fall	BSPM502B - Topics in Plant Pathology-Plant Bacteriology	1	10
2011	Spring	BSPM799 - Dissertation	18	5
2011	Spring	BSPM798 - Research	18	12
2010	Fall	BSPM698 - Research	18	18
2010	Fall	BSPM798 - Research	18	12
2010	Spring	BSPM450 - Molecular Plant-Microbe Interaction	3	1
2010	Spring	BSPM550 - Molecular Plant-Microbe Interactions	3	6
2010	Spring	BSPM798 - Research	18	10
2010	Spring	BSPM699 - Thesis	18	6
2009	Fall	AGRI680A1 - Bioenergy Technology	3	3
2009	Fall	ENGR680A1 - Bioenergy Technology	3	3
2009	Fall	AGRI680A1 - Bioenergy Technology - Lab	0	3

2009	Fall	ENGR680A1 - Bioenergy Technology - Lab	0	3
2009	Fall	BSPM798 - Research	18	10
2009	Fall	BSPM699 - Thesis	18	7
2009	Fall	BSPM502B - Topics in Plant Pathology-Plant Bacteriology	1	3
2009	Spring	AGRI680A1 - Bioenergy Technology	3	3
2009	Spring	ENGR680A1 - Bioenergy Technology	3	2
2009	Spring	AGRI680A1 - Bioenergy Technology - Lab	0	3
2009	Spring	ENGR680A1 - Bioenergy Technology - Lab	0	2
2009	Spring	BSPM799 - Dissertation	18	3
2009	Spring	CM795 - Independent Study	18	20
2009	Spring	BSPM698 - Research	18	8
2009	Spring	BSPM798 - Research	18	10
2009	Spring	BSPM699 - Thesis	18	4
2008	Fall	BSPM698 - Research	18	8
2008	Fall	BSPM798 - Research	18	11
2008	Fall	BSPM699 - Thesis	18	3
2008	Spring	BSPM450 - Molecular Plant-Microbe Interaction	3	1
2008	Spring	BSPM550 - Molecular Plant-Microbe Interactions	3	6
2008	Spring	BSPM698 - Research	18	4
2008	Spring	BSPM798 - Research	18	10
2008	Spring	BSPM502B - Topics in Plant Pathology-Plant Bacteriology	1	8
2007	Fall	BSPM698 - Research	18	12

Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2016	Spring	Bioag'l Sci & Pest Mgmt-BSPM550 - Molecular Plant-Microbe Interactions	1	Face to Face
2015	Spring	Food Technology-FTEC572 - Food Biotechnology	1	Face to Face
2013	Fall	Food Sci&Human Nutrition-FSHN496 - Sustainable Food Systems	1	Face to Face

Evidence of Teaching Effectiveness (Annual Input)

Other Evidence

Fall 2015, BI 550B–Plant Bacteriology

Fall 2015, BSPM 502B–Topics in Plant Pathology-Plant Bacteriology

COMMITTEES

Vice President for Research HARP committee, (2014 - Present).

Thorton-Massa Plant Biology Speaker Selection Committee, (2013 - Present).

Executive Council, CSU School of Global Environmental Sustainability (SOGES), (2010 - Present).

Vice President for Research Advisory Committee (VPAC), (2014 - 2016).

Search committee: Genetics of complex plant traits, BSPM, (2013).

Vice Provost for Research Search Committee, (April 2013 - July 2013).

VPR's Scholarship Impact Award Selection Committee, (February 2013 - March 2013).

(2012).

(2011).

(2010).

(2010).

(2012).

(2011).

(2010).

(2010).

BSPM Executive Committee, (2014 - 2017).

BSPM Department Head Search Committee, (2016).

Search Committee: Animal Sciences Microbiome position, (2015 - 2016).

Search Committee: BSPM Microbiome position, (2015 - 2016).

Pierce's Disease/GWSS REsearch Scientific Advisory Panel, (2011 - 2015).

Search Committee: Genetics of Complex Traits, (September 2013 - January 2014).

Systems Biology of Plant Responses to Drought Stress and Other Climate Change Related Environmental Stresses, BSPM, (November 2013 - December 2013).

(2012).

(2011).

(2010).

(2010).

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Chinese Society of Plant Pathology.

American Society for Plant Biologists. (2010 - Present).

American Association for the Advancement of Science. (2000 - Present).

American Phytopathological Society. (2000 - Present).

American Society of Plant Biologists. (1986 - Present).

American Society for Plant Biologists. (1985 - Present).

American Society for Microbiology. (1984 - Present).

International Society-Molecular Plant-Microbe Interactions. (1984 - Present).

American Phytopathological Society. (2010 - 2013).

Grass-O'-Line: The Fuel of the Future.

Gene Editing Tool Hailed as Breakthrough, and It Really is One!

“Plant denizens get the big science treatment”.

Can Microbes help feed the world?

GMO foods debated by CSU and the rest of Colorado.

A complete Harvest: the future of rice as a bioenergy crop.

From rice pathology research to food security gains: An interview with Jan Leach.

Colorado researcher lands position on secretive bioterrorism board.

Committee Member, Joint BioEnergy Institute (JBEI) Advisory Committee, Berkeley, CA. (2016 - Present).

Committee Member, RICE Global Partnership Oversight Committee, Manila. (2016 - Present).

Editor, Journal Editor, Annual Review of Phytopathology. (2015 - Present).

Member, National Science Advisory Board for Biosecurity (NSABB). (2012 - Present).

Committee Member, Scientific Advisory Board, Keystone Symposia, Keystone, CO. (2010 - Present).

Council of Research Associate Deans. (2009 - Present).

Member, American Association for the Advancement of Science. (2000 - Present).

Member, American Phytopathological Society. (2000 - Present).

Member, American Society for Plant Biologists. (2000 - Present).

Chairperson, Bacteriology Committee, American Phytopathological Society. (1990 - Present).

Member, American Society of Plant Biologists. (1986 - Present).

Member, American Society for Plant Biologists. (1985 - Present).

Member, American Society for Microbiology. (1984 - Present).

Member, International Society-Molecular Plant-Microbe Interactions. (1984 - Present).

Member, Global Rice Partnership Science Oversight Committee (GRiSP-OC). (2015 - 2018).

Committee Member, APS Public Policy Board. (2015 - 2016).

Committee Member, Plant User Advisory Board, Joint Genome Institute (JGI), Walnut Creek, CA. (2015 - 2016).

Chairperson, APS Public Policy Board. (2010 - 2015).

Board of Advisors, Keystone Symposia, Keystone, CO. (2012 - 2014).

Editor, Associate Editor, Annual Reviews of Phytopathology, Palo Alto, CA. (2010 - 2014).

Biosafety and Biosecurity Training Course, Fort Collins, CO. (2010 - 2014).

Infectious Diseases Supercluster. (2008 - 2014).

Committee Chair, American Phytopathological Society. (2010 - 2013).

Member, BSPM Executive Committee. (2010 - 2013).

Chairperson, American Society Plant Biologists Dennis Hoagland Award Committee. (2009 - 2013).

Okayama University, Japan. (2008 - 2013).

Reviewer, Ad Hoc Reviewer, NSF Panel Member: Plant Genome Program. (April 2013 - June 2013).

Workshop Organizer, International Rice Research Institute, Manila, CO. (2012).

Program Organizer, Training Workshop on Harmonizing Detection of *Xanthomonas oryzae* pathovars, Los Banos. (2012).

Committee Chair, Promotion and Tenure Committee. (2011 - 2012).

Member, Nominations Committee. (2009 - 2012).

Editor, Associate Editor, Rice (Springer). (2007 - 2012).

Member, U.S. Department of Energy's Systems Biology Knowledgebase Science Focus Area's Review Panel. (2011).

Member, USDA-NIFA Understanding Plant-associated Microorganisms Panel. (2011).

Member, Search Committee: Bioenergy position for College of Agricultural Sciences. (2010 - 2011).

Member, Search Committee: Bioenergy position for College of Engineering. (2010 - 2011).

Crops for Health Program. (2008 - 2011).

Reviewer, Ad Hoc Reviewer, BMC Genomics. (2010).

Reviewer, Ad Hoc Reviewer, BMC Plant Biology. (2010).

CSIRO-Australia Review of Plant Industry. (2010).

Reviewer, Ad Hoc Reviewer, Molecular Plant-Microbe Interactions. (2010).

Reviewer, Ad Hoc Reviewer, Nature Genetics. (2010).

Reviewer, Ad Hoc Reviewer, NSF. (2010).

Oregon State University. (2010).

Reviewer, Ad Hoc Reviewer, Plant Physiology. (2010).

Reviewer, Ad Hoc Reviewer, Plant Science. (2010).

Reviewer, Ad Hoc Reviewer, Proceedings of the National Academy of Sciences. (2010).

Program Organizer, Workshop on Bioinformatics, Ft Collins, CO. (2010).

Member, Provost Search Committee. (2009 - 2010).

Member, Honorary Degree Committee. (2008 - 2010).

Chairperson, APS Ad Hoc Committee on International Collaborations. (2008 - 2009).

US-RCIECAPS project. (2004 - 2009).

Editor, Associate Editor, Journal of General Plant Pathology. (2004 - 2008).

Rural Development Administration of Korea. (2002 - 2008).

Officer, President/Elect/Past, American Phytopathological Society. (2006 - 2007).

Chairperson, National Research Council Committee on California Agricultural Research Priorities: Pierce's Disease. (2003 - 2004).

Board of Advisors, US Rice Genome Sequencing Project. (2000 - 2004).

Kansas State University Research Foundation. (1998 - 2004).

Board of Directors, Kansas State University Research Foundation. (1997 - 2004).

Chairperson, Targeted Excellence Working Group. (2002 - 2003).

Member, Senator Pat Robert's Task Force on Biotechnology. (1999 - 2003).

Board of Directors, International Society-Molecular Plant-Microbe Interactions. (1995 - 2003).

Member, Kansas State University Patent Advisory Committee. (1997 - 2002).

Officer, President/Elect/Past, University Distinguished Professor Group, KSU. (2000 - 2001).

Officer, President/Elect/Past, International Society-Molecular Plant-Microbe Interactions. (1999 - 2001).

Member, External Advisory Panel for CEPRAP. (1995 - 2001).

Molecular Plant-Microbe Interactions. (1998 - 2000).

Board of Advisors, Plant Biotechnology Center, Kansas State University. (1996 - 2000).

Officer, President/Elect/Past, International Society-Molecular Plant-Microbe Interactions. (1996 - 1999).

Member, Plant Biotechnology Steering Center, Kansas State University. (1996 - 1998).

Editor, Senior Editor, Molecular Plant-Microbe Interactions. (1995 - 1998).

Member, NSF-EPSCOR Faculty Advisory Committee, Kansas. (1992 - 1997).

Editorial Review Board Member, Rice Biotechnology Quarterly. (1992 - 1997).

USDA-CRG program (Plant Pathology). (1996).

Member, Biochemistry, Physiology, and Molecular Biology Committee for American Phytopathological Society. (1993 - 1996).

Reviewer, Grant Panel, USDA-CRG program (Plant Pathology and Weed Science). (1995).

KSU Standard and Policy Subcommittee. (1993 - 1994).

Member, Provost's Task Force for Achieving University-Wide Aspirations, Research Committee. (1993 - 1994).

Editor, Associate Editor, Molecular Plant-Microbe Interactions. (1991 - 1994).

Reviewer, Grant Panel, DOE Biosciences. (1993).

Chairperson, NCR-169 Committee on Detection, Ecology, and Management of Pathogenic and Beneficial Bacteria Associated with Plants. (1992 - 1993).

Kansas State University Biological Science Subcommittee. (1991 - 1992).

Reviewer, Grant Panel, Molecular Plant Pathology panel, USDA Competitive Research Program. (1991).

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

Advisory and program reviewer, Noble Foundation Plant Biology Division Non-Resident Fellow, Ardmore, OK. (2016 - Present).

Reviewer, Program, Citrus Research Board HLB External Scientific Review Panel. (2016).

Visiting Scientist, Institute for Crop Protection, Chinese Academy of Agricultural Sciences, Beijing. (2012 - 2014).

Reviewer, Program, Advisor Research Core for Interdisciplinary Science, Okayama University, Japan. (2008 - 2013).

Plant and Animal Genome meeting. (2011 - Present).

Committee Member, Pierce's Disease/GWSS Research Scientific Advisory Committee. (2011 - 2015).
