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Education

Ph.D. Plant Pathology (May 2002), Texas A&M University, College Station

Dissertation: "Responses of *Sorghum bicolor* (L.) Moench to *Fusarium thapsinum* and *Curvularia lunata* infection at anthesis."

B.Sc. Microbiology (May 1996), University of Kentucky, Lexington

Relevant Professional Experience (from most recent)

Professor, Associate Professor, and Assistant Professor, Department of Plant Pathology, Kansas State University, Manhattan, Kansas; July 2019 to present, July 2013 to June 2019, and May 2007 to June 2013, respectively.

Assistant Professor, Department of Biology, The University of Texas – Pan American (now "UT – Rio Grande Valley"), Edinburg, Texas; September 2002 to May 2007

Graduate Research & Teaching Assistant, Department of Plant Pathology & Microbiology, Texas A&M University, College Station, Texas; August 1996 to August 2002

Refereed Publications (from most recent)

(58) Noor, A., and **Little, C.R.** 2022. Evaluating the role of exogenously applied ascorbic acid in rescuing soybean plant health in the presence of pathogen-induced oxidative stress. *Pathogens: (Accepted upon revision)*.

(57) Perumal, R., Tesso, T.T., Jagadish, S.V.K., Kumar, V., Aiken, R.M., Bean, S.R., Smolensky, D., Pieris, K.H.S., Prasad, P.V.V., and **Little, C.R.** 2022. Registration of grain sorghum seed (A/B) and pollinator (R) parent lines for chilling and drought tolerance. *Journal of Plant Registrations: (In press)*.

(56) Pimental, M.F., Srour, A.Y., Warner, A.J., Bond, J.P., Bradley, C., Rupe, J., Chilvers, M., **Little, C.**, Robertson, A., Giesler, L., Malvick, D., Kurle, J., Wise, K., Tenuta, A., and Fakhoury, A.M. 2022. Ecology and diversity of fungal species associated with soybean seedling diseases in the US Midwest. *Journal of Applied Microbiology* 132: 3797-3811.

(55) Perumal, R., Morris, G.P., Jagadish, S.V.K., **Little, C.R.**, Tesso, T.T., Bean, S.R., Yu, J., Prasad, P.V.V., and Tuinstra, M.R. 2021. Registration of the sorghum [*Sorghum bicolor* (L.) Moench] nested association mapping (NAM) population in RTx430 background. *Journal of Plant Registrations* 15: 395-402.

(54) Perumal, R., Tomar, S.S., Bandara, A., Maduraimuthu, D., Tesso, T.T., Prasad, P.V., and **Little, C.R.** 2020. Variation in stalk rot resistance and physiological traits of sorghum genotypes in the field under high temperature conditions. *Journal of General Plant Pathology* 86: 350-359.

(53) Bandara, A.Y., Weerasooriya, D.K., Gobena, D.D., Hopper, D.J., Tesso, T.T., and **Little, C.R.** 2020. Improving sweet sorghum for enhanced juice traits and biomass. *Plant Breeding* 139: 131-140.

(52) Bandara, Y.M.A.Y., Weerasooriya, D.K., Tesso, T.T., and **Little, C.R.** 2019. Stalk rot resistant

sorghum genotypes are resilient to pathogen-mediated photosystem II quantum yield retardation. *Crop Protection* 124: Article 104852.

(51) Tesso, T., Gobena, D.D., Perumal, R., Bean, S., Wilson, J., and **Little, C.R.** 2019. Registration of 17 sorghum pollinator germplasm lines resistant to acetolactate synthase (ALS)-inhibitor herbicides. *Journal of Plant Registrations* 13: 212-216.

(50) Perumal, R., Tesso, T., Kofoid, K.D., Aiken, R.M., Prasad, P.V.V., Bean, S.R., Wilson, J.D., Herald, T.J., and **Little, C.R.** 2019. Registration of six grain sorghum pollinator (R) lines. *Journal of Plant Registrations* 13: 113-117.

(49) Bandara, Y.M.A.Y., Weerasooriya, D.K., Liu, S., and **Little, C.R.** 2018. The necrotrophic fungus *Macrophomina phaseolina* promotes charcoal rot susceptibility in grain sorghum through induced host cell wall-degrading enzymes. *Phytopathology* 108: 948-956.

(46) Bandara, Y.M.A.Y., Tesso, T.T., Zhang, K., Wang, D., and **Little, C.R.** 2018. Charcoal rot and Fusarium stalk rot diseases influence sweet sorghum sugar attributes. *Industrial Crops and Products* 112: 188-195.

(45) Bandara, A.Y., Tesso, T., Bean, S.R., Dowell, F.E., and **Little, C.R.** 2017. Impacts of fungal stalk rot pathogens on physicochemical properties of sorghum grain. *Plant Disease* 101: 2059-2065.

(44) Pedrozo, R., and **Little, C.R.** 2017. *Fusarium verticillioides* inoculum potential influences soybean seed quality. *European Journal of Plant Pathology* 148: 749-754.

(43) Bandara, Y.M.A.Y., Weerasooriya, D.K., Tesso, T.T., Prasad, P.V.V., and **Little, C.R.** 2017. Stalk rot fungi affect grain sorghum yield components in an inoculation stage-specific manner. *Crop Protection* 94: 97-105.

(42) Bandara, Y.M.A.Y., Weerasooriya, D.K., Tesso, T.T., and **Little, C.R.** 2017. Stalk rot diseases affect sweet sorghum biofuel traits. *BioEnergy Research* 10: 26-35.

(41) Bandara, Y.M.A.Y., Weerasooriya, D.K., Tesso, T.T., and **Little, C.R.** 2016. Stalk rot fungi affect leaf greenness (SPAD) of grain sorghum in a genotype- and growth stage-specific manner. *Plant Disease* 100: 2062-2068.

(40) Adeyanju, A., Yu, J., **Little, C.**, Rooney, W., Klein, P., Burke, J., and Tesso, T. 2016. Sorghum recombinant inbred lines segregating for stay-green QTLs and leaf dhurrin content show differential reaction to stalk rot diseases. *Crop Science* 56: 2895-2903.

(39) Adee, E., Ruiz Diaz, D.A., and **Little, C.R.** 2016. Effect of soil test and phosphorus fertilization on soybean sudden death syndrome severity. *Crop, Forage, & Turfgrass Management* 2: Online. (<https://dl.sciencesocieties.org/publications/cftm/abstracts/2/1/cftm2015.0193/preview>)

(38) Pedrozo, R., Fenoglio, J.J., and **Little, C.R.** 2015. First report of seedborne *Fusarium fujikuroi* and its potential to cause pre- and post-emergent damping-off of soybean (*Glycine max*) in the United States. *Plant Disease* 99: 1865.

(37) Bandara, Y.M.A.Y., Perumal, R., and **Little, C.R.** 2015. Integrating resistance and tolerance for improved evaluation of sorghum lines against Fusarium stalk rot and charcoal rot. *Phytoparasitica* 43: 485-499.

(36) Adeyanju, A., **Little, C.**, Yu, J., and Tesso, T. 2015. Genome-wide study on resistance to stalk rot diseases in grain sorghum. *G3: Genes, Genomes, Genetics*: Online. (doi:10.1534/ g3.114.016394)

(35) Perumal, R., Tesso, T., Kofoid, K.D., Prasad, P.V.V., Aiken, R.M., Bean, S.R., Wilson, J.D., Herald, T.J., and **Little, C.R.** 2015. Registration of nine sorghum seed parent (A/B) lines. *Journal of Plant Registrations* 9: 244-248.

- (34) Prom, L.K., Perumal, R., Montes-Garcia, N., Isakeit, T., Medina-Ocegeda, S., Odvody, G.N., Rooney, W.L., **Little, C.R.**, and Magill, C.W. 2015. Evaluation of Gambia and Mali sorghum germplasm against the downy mildew pathogen, *Peronosclerospora sorghi* in Mexico and the USA. *Journal of General Plant Pathology* 81: 24-31.
- (33) Pedrozo, R., and **Little, C.R.** 2014. First report of *Fusarium thapsinum* and its pathogenicity on soybean (*Glycine max*) in the United States. *Plant Disease* 98: 1745.
- (32) Prom, L.K., Perumal, R., Cissé, N., and **Little, C.R.** 2014. Evaluation of selected sorghum lines and hybrids for grain mold and long smut fungi in Senegal, West Africa. *Plant Health Progress* 15: 74-77.
- (31) Brzostowski, L.F., Schapaugh, W.T., Rzodkiewicz, P.A., Todd, T.C., and **Little, C.R.** 2014. Effect of host resistance to *Fusarium virguliforme* and *Heterodera glycines* on sudden death syndrome disease severity and soybean yield. *Plant Health Progress* 15: 1-8.
- (30) Kapanigowda, M.H., Perumal, R., Djanaguiraman, M., Aiken, R.M., Tesso, T., Prasad, P.V.V., and **Little, C.R.** 2013. Genotypic variation in sorghum (*Sorghum bicolor* (L.) Moench) exotic germplasm collections for drought and disease tolerance. *SpringerPlus* 2: 650 (Online) (doi:10.1186/2193-1801-2-650)
- (29) Kapanigowda, M.H., Perumal, R., Aiken, R.M., Herald, T.J., Bean, S.R., and **Little, C.R.** 2013. Analysis of sorghum (*Sorghum bicolor* (L.) Moench) lines and hybrids in response to early season planting and cool conditions. *Canadian Journal of Plant Science* 93: 773-784.
- (28) Schneider, S.J., da Graça, J.V., Skaria, M., **Little, C.R.**, Sétamou, M., and Kunta, M. 2013. Quantification of greasy spot in grapefruit using computer image analysis and development of a disease severity index. *International Journal of Fruit Science* 13: 459-465.
- (27) Seifers, D.L., Perumal, R., and **Little, C.R.** 2012. New sources of resistance in sorghum (*Sorghum bicolor*) germplasm are effective against a diverse array of *Potyvirus* spp. *Plant Disease* 96: 1775-1779.
- (26) **Little, C.R.**, Perumal, R., Tesso, T., Prom, L.K., Odvody, G.N., and Magill, C.W. 2012. Sorghum pathology and biotechnology - a fungal disease perspective: Part I. Grain mold, head smut, and ergot. *The European Journal of Plant Science and Biotechnology* 6: 10-30.
- (25) Tesso, T., Perumal, R., **Little, C.R.**, Adeyanju, A., Radwan, G.L., Prom, L.K., and Magill, C.W. 2012. Sorghum pathology and biotechnology - a fungal disease perspective: Part II. Anthracnose, stalk rot, and downy mildew. *The European Journal of Plant Science and Biotechnology* 6: 31-44.
- (24) Prom, L.K., Perumal, R., Errattaimuthu, S.R., **Little, C.R.**, No, E-G., Erpelding, J.E., Rooney, W.L., Odvody, G.N., and Magill, C.W. 2012. Genetic diversity and pathotype determination of *Colletotrichum sublineolum* isolates causing anthracnose disease in sorghum. *European Journal of Plant Pathology* 133: 671-685.
- (23) Carris, L.M., **Little, C.R.**, and Stiles, C.M. 2012. Introduction to fungi. *The Plant Health Instructor*: Online (doi:10.1094/PHI-I-2012-0426-01).
- (22) Mengistu, A., Arelli, P.A., Bellaloui, N., Bond, J.P., Shannon, G.J., Wrather, A.J., Rupe, J.B., Chen, P., **Little, C.R.**, Canaday, C.H., Newman, M.A., and Pantalone, V.R. 2012. Evaluation of soybean genotypes for resistance to three seedborne diseases. *Plant Health Progress* 13 (doi:10.1094/PHP-2012-0321-02-RS)
- (21) Mengistu, A., Arelli, P.A., Bond, J.P., Shannon, G.J., Wrather, A.J., Rupe, J.B., Chen, P., **Little, C.R.**, Canaday, C.H., Newman, M.A., and Pantalone, V.R. 2011. Evaluation of soybean genotypes

for resistance to charcoal rot. *Plant Health Progress* 12 (doi:10.1094/PHP-2010-0926-01-RS).

(20) Brady, C.R., Noll, L.W., Saleh, A.A., and **Little, C.R.** 2011. Disease severity and microsclerotium properties of the sorghum sooty stripe pathogen, *Ramulispora sorghi*. *Plant Disease* 95: 853-859.

(19) Radwan, G.L., Isakeit, T., Magill, C.W., Perumal, R., Prom, L.K., and **Little, C.R.** 2011. Screening exotic sorghum germplasm, hybrids, and elite lines for resistance to a new virulent pathotype (P6) of *Peronosclerospora sorghi* causing downy mildew. *Plant Health Progress* 12 (doi.org/10.1094/PHP-2011-0323-01-RS).

(18) Yousef, S., Summy, K.R., and **Little, C.R.** 2011. Detection of salt toxicity and nitrogen deficiency in *Cucumis sativus* L. using spectroradiometry and CIR imagery. *Journal of Plant Nutrition* 34: 1236-1244.

(17) Liu, P., Guo, W., Jiang, Z., Pu, H., Feng, C., Zhu, X., Peng, Y., Kuang, A., and **Little, C.R.** 2011. Effects of high temperature after anthesis on starch granules in grains of wheat (*Triticum aestivum* L.). *Journal of Agricultural Science* 149: 159-169.

(16) Gandy, Y.P., Mamachen, A., Mamachen, A., Lieman, J., Persans, M., Parsons, J., Ibrahim, E., Summy, K.R., and **Little, C.R.** 2011. Techniques to facilitate the acquisition of accurate spectral measurements and multispectral imagery of plant foliage under artificial lighting conditions. *Subtropical Plant Science* 63: 45-53.

(15) Summy, K.R., **Little, C.R.**, Everitt, J.H., Mazariegos, R.A., French, J.V., Setamou, M. and Mata, J. 2010. Detection of incipient pest infestations on glasshouse crops using multispectral imagery and a common vegetation index. *Subtropical Plant Science* 62: 56-62.

(14) Noll, L.W., Butler, D.N., and **Little, C.R.** 2010. Tetrazolium violet staining of naturally and artificially moulded sorghum (*Sorghum bicolor* (L.) Moench) caryopses. *Seed Science and Technology* 38: 742-757.

(13) Tesso, T., Ochanda, N., **Little, C.R.**, Claflin, L., and Tuinstra, M.R. 2010. Analysis of host plant resistance to multiple *Fusarium* species associated with stalk rot disease in sorghum (*Sorghum bicolor* (L.) Moench). *Field Crops Research* 118: 177-182.

(12) **Little, C.R.**, and Magill, C.W. 2009. The grain mold pathogen, *Fusarium thapsinum*, reduces caryopsis formation in *Sorghum bicolor*. *Journal of Phytopathology* 157: 518-519.

(11) Perez, J.L., French, J.V., Summy, K.R., Davelos Baines, A.L., and **Little, C.R.** 2009. Fungal phyllosphere communities are altered by indirect interactions among trophic levels. *Microbial Ecology* 57: 766-774.

(10) **Little, C.R.**, and Summy, K.R. 2008. Using CIR imagery to detect sooty mold and fungal pathogens of glasshouse propagated plants. *HortScience* 43: 1485-1491.

(9) Martinez Blanco, E., **Little, C.R.**, and Davelos Baines, A.L. 2007. Variation in antibiotic inhibitory abilities among streptomycetes from south Texas agricultural soils. *Soil Biology & Biochemistry* 39: 268-275.

(8) Chintapalli, R., Wilson, J.P., and **Little, C.R.** 2006. Using fungal isolation rates from pearl millet caryopses to assess grain mold and weathering resistance. *International Sorghum and Millets Newsletter* 47: 146-148.

(7) **Little, C.R.** 2006. Occurrence of *Leveillula taurica* cleistothecia on honey mesquite in southern Texas. *Plant Disease* 90: 1358.

(6) Summy, K.R., **Little, C.R.**, Mazariegos, R.A., Valdez, R., Hinojosa-Kettelkamp, D.L., Carter, J.,

and Yousef, S. 2004. Evaluation of artificial lighting sources for the acquisition of color infrared imagery under glasshouse conditions. *Subtropical Plant Science* 56: 44-51.

(5) **Little, C.R.**, and Magill, C.W. 2004. Colonization of sorghum peduncles by *Fusarium thapsinum* and *Curvularia lunata*: subsequent pigment accumulation. *International Sorghum and Millets Newsletter* 45: 28-30.

(4) **Little, C.R.**, and Magill, C.W. 2003. Elicitation of defense response genes in sorghum floral tissues infected by *Fusarium thapsinum* and *Curvularia lunata* at anthesis. *Physiological and Molecular Plant Pathology* 63: 271-279.

(3) Summy, K.R., **Little, C.R.**, Mazariegos, R.A., Everitt, J.H., Davis, M.R., French, J.V., and Scott, A.W. 2003. Detecting stress in glasshouse plants using color infrared imagery: a potential new application for remote sensing. *Subtropical Plant Science* 55: 51-58.

(2) **Little, C.R.**, and Magill, C.W. 2003. Reduction of sorghum seedling vigor by inoculation with *Fusarium thapsinum* and *Curvularia lunata* at anthesis. *International Sorghum and Millets Newsletter* 44: 112-113.

(1) Elhage, N., **Little, C.**, Clark, J., and Stephenson, S.L. 2000. Biosystematics of the *Didymium squamulosum* complex. *Mycologia* 92: 54-64.

Proceedings and Book Chapters (from most recent)

(13) **Little, C.R.** 2023. Phosphorus and plant disease. In: "Mineral Nutrition and Plant Disease, 2nd Ed." (Datnoff, L.E., ed.). APS Press, St. Paul, Minnesota, USA. (*In press*)

(12) **Little, C.R.**, Bandara, Y.M.A.Y., Perumal, R., and Todd, T.C. 2018. Diseases and their management in sorghum cultivations: Stalk, root, and other diseases. In: *Achieving Sustainable Cultivation in Sorghum: Genetics, Breeding, and Production Techniques* (Rooney, W.L., ed.). Burleigh Dodds Science Publishing, Ltd.

(11) **Little, C.R.** and Perumal, R. 2018. Diseases and their management in sorghum cultivation: Seedling, seed, panicle, and foliar diseases. In: *Achieving Sustainable Cultivation in Sorghum: Genetics, Breeding, and Production Techniques* (Rooney, W.L., ed.). Burleigh Dodds Science Publishing, Ltd.

(10) **Little, C.R.**, and Perumal, R. 2018. The biology and control of sorghum diseases. In *Sorghum: State of the Art and Future Perspectives*, Agronomy Monographs No. 58. American Society of Agronomy and Crop Science Society of America, Inc. Madison, WI. (doi:10.2134/agronmonogr58.2015.0073)

(9) Perumal, R., Rajendrakumar, P., Maulana, F., Tesso, T., and **Little, C.R.** 2018. Genetic changes in sorghum. In *Sorghum: State of the Art and Future Perspectives*, Agronomy Monographs No. 58. American Society of Agronomy and Crop Science Society of America, Inc. Madison, WI. (doi:10.2134/agronmonogr58.2014.0053)

(8) Summy, K.R., and **Little, C.R.** 2012. Accurate spectral measurements and color infrared imagery of excised leaves exhibiting Gaussian curvature from healthy and stressed plants. Pages 123-142 in *Advanced Image Acquisition, Processing Techniques and Applications I*. InTech Press, Rijeka, Croatia. 170 pp. (ISBN: 979-9-5330-7587-6) (doi:10.5772/37300)

(7) Salazar, D., **Little, C.R.**, Mazariegos, R.A., Summy, K.R., Everitt, J.H., and M.R. Davis. 2007. Development of thematic vegetation maps for agricultural crops in southern Texas and their role in integrated pest management programs. In: *Proceedings of the 21st Biennial Workshop on Aerial*

Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Terre Haute, Indiana. [CD-ROM]

(6) Summy, K.R., **Little, C.R.**, French, V.J., Setamou, M., Mata, J., and Everitt, J.H. 2007. Spectral changes in citrus associated with damage caused by foliar-feeding arthropods, and their detection using color infrared imagery and selected image enhancement techniques. In: Proceedings of the 21st Biennial Workshop on Aerial Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Terre Haute, Indiana. [CD-ROM]

(5) **Little, C.R.** and Summy, K.R. 2005. Detection of stressors in glasshouse crops using color infrared imagery: I. Damage caused by fungal pathogens and sooty mold. In Proceedings of the 20th Biennial Workshop on Aerial Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Weslaco, Texas. [CD-ROM]

(4) Salazar, D., Summy, K.R., **Little, C.R.**, and Mazariegos, R.A. 2005. Assessment of single date and multitemporal classification using color-infrared photography for selected row crop identification in south Texas. In Proceedings of the 20th Biennial Workshop on Aerial Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Weslaco, Texas. [CD-ROM]

(3) Summy, K.R., **Little, C.R.**, Mazariegos, R.A., Everitt, J.H., and Davis, M.R. 2004. Technical feasibility of color infrared imagery for monitoring physiological stress in selected glasshouse crops. In Proceedings of the 19th Biennial Workshop on Color Photography & Videography and Airborne Imaging for Resource Assessment, American Society for Photogrammetry and Remote Sensing, Logan, Utah. [CD-ROM]

(2) Bandyopadhyay, R., **Little, C.**, Waniska, R., and Butler, D. R. 2002. Sorghum grain mold: through the 1990s into the new millennium. Pages 173-183 in Global 2000: International Sorghum and Millets Diseases III. Proceedings of an international conference. (J.F. Leslie, ed.) Iowa University Press, Ames, Iowa. 498 pp. (ISBN: 978-0-8138-0389-0)

(1) **Little, C.** 2000. Plant responses to early infection events in sorghum grain mold interactions. Pages 169-182 in Technical and Institutional Options for Sorghum Grain Mold Management. Proceedings of an international consultation (Chandrashekar, A., Bandyopadhyay, R., and Hall, A.J., eds.). International Crops Research Institute for the Semi-Arid Tropics, Patancheru, India. ICRISAT Press. 295 pp. (ISBN: 978-9-2906-6428-4)

Books (from most recent)

(2) Everitt, J.H., Lonard, R.I., Drawe, D.L., and **Little, C.R.** 2011. Grasses of South Texas: A Guide to their Identification and Value. Texas Tech University Press, Lubbock. (ISBN: 978-0-8967-2668-0) (2011 Special Category Publication Award from the Society for Range Management Texas Section)

(1) Everitt, J.H., Lonard, R.I., and **Little, C.R.** 2007. A Guide to Identification of Weeds in South Texas and Northern Mexico. Texas Tech Press, Lubbock. 222 pp. (ISBN: 978-0-8967-2614-7)

Professional Abstracts and Other Publications

(66) Noor, A., **Little, C.R.** 2021. Ascorbic acid rescues plant health in the presence of pathogen-induced oxidative stress. *Phytopathology* 111: S2.158.

(65) Noor, A., Morris, G.P., and **Little, C.R.** 2020. Phenotyping the sorghum nested association mapping (NAM) parents in two Kansas locations for charcoal rot resistance. *Phytopathology* 110: S2.54.

- (64) Gambhir, N., Kodati, S., Adesemoye, A.O., Ajayi, O.O., Bissonette, K., Bradley, C.A., Chilvers, M., Fakhoury, A.M., Jackson-Ziems, T.A., Leandro, L.F.S., **Little, C.R.**, Malvick, D.K., Mathew, F.M., Nelson, B.D., Sassenrath, G., Smith, D.L., Telenko, D.E.P., Wise, K.A., and Everhart, S.E. 2020. Distribution and population structure of *Rhizoctonia zea* in the North Central United States. *Phytopathology* 110: S2.177.
- (63) Adee, E.A., **Little, C.R.**, and Ciampitti, I.A. 2019. Influence of soybean planting date on sudden death syndrome and soybean yield. Kansas Agricultural Experiment Station Research Reports, Vol. 5 (doi.org/10.4148/2378-5977.7777).
- (62) Sassenrath, G., **Little, C.R.**, Roozeboom, K., Lin, X., and Jardine, D.J. 2019. Controlling soil-borne disease in soybean with a mustard cover crop. Kansas Agricultural Experiment Station Research Reports, Vol. 5 (doi.org/10.4148/2378-5977.7740).
- (61) Cast, V., Errattaimuthu, S., Pedrozo, R., Todd, T.C., and **Little, C.R.** 2019. Determining the environmental parameters that influence growth of the soybean root rot pathogen, *Fusarium proliferatum*. *Phytopathology* 109: S2.30.
- (60) Noor, A., Bandara, A.Y., and **Little, C.R.** 2019. Exogenously applied ROS/RNS scavengers reduce *Macrophomina phaseolina*-induced lesion development in soybean and sorghum. *Phytopathology* 109: S2.156.
- (59) Noor, A., Morris, G.P., and **Little, C.R.** 2019. Phenotyping the sorghum nested association mapping (NAM) parents for charcoal rot resistance. *Phytopathology* 109: S2.86.
- (58) Adee, E.A., **Little, C.**, and Ciampitti, I.A. 2018. Impact of soybean yield from sudden death syndrome and soybean planting date. Kansas Agricultural Experiment Station Research Reports, Vol. 4 (doi:10.4148/2378-5977.7610).
- (57) Bushula, V.S., Jebril, J., Leslie, J.F., and Little, C.R. 2018. Stalk rot of sweet sorghum caused by genetically diverse *Fusarium thapsinum* strains. *Phytopathology* 108: S1.218. (professional abstract)
- (56) Adee, E., Diaz, D.R., and **Little, C.R.** 2017. Soybean sudden death syndrome influenced by macronutrient fertility on irrigated soybean in a corn/soybean rotation. Kansas Agricultural Experiment Station Research Reports, Vol. 3 (doi.org/10.4148/2378-5977.7431).
- (55) Pedrozo, R., Jumpponen, A., and **Little, C.** 2017. Metabarcoding pathogenic *Fusarium* spp. in soybean seeds. *Phytopathology* 107: S5.121. (professional abstract)
- (54) Bandara, A.Y., Liu, S., and **Little, C.R.** 2017. *Macrophomina phaseolina* infection down-regulates phytosterol biosynthesis in stalk tissues of a charcoal rot susceptible sorghum genotype. *Phytopathology* 107: S5.14. (professional abstract)
- (53) Bandara, A.Y., Weerasooriya, D.K., Liu, S., and **Little, C.R.** 2017. The necrotrophic fungus *Macrophomina phaseolina* induces a strong oxidative stress response in charcoal rot susceptible sorghum genotypes. *Phytopathology* 107: S5.80. (professional abstract)
- (52) Bandara, A.Y., Liu, S., and **Little, C.R.** 2017. Impact of *Macrophomina phaseolina* infection on plastid- and cell- membrane integrity and lipid-based signaling capacity of sorghum stalk tissues. *Phytopathology* 107: S5.13. (professional abstract)
- (51) Bandara, A.Y., Weerasooiya, D.K., Liu, S., and **Little, C.R.** 2017. Dynamics of glutathione and glutathione-related enzymes in charcoal rot-sorghum interactions. *Phytopathology* 107: 79-80. (professional abstract)
- (50) Bandara, A.Y., Liu, S., and **Little, C.R.** 2017. The necrotrophic fungus *Macrophomina*

phaseolina promotes charcoal rot susceptibility in sorghum through induced host cell wall degrading enzymes (CWDEs). *Phytopathology* 107: S5.79. (professional abstract)

(49) Sassenrath, G., **Little, C.R.**, Hsiao, C.J., and Shoup, D.E. 2017. Cover crop systems to control charcoal rot in soybeans. Kansas Agricultural Experiment Station Research Reports, Vol. 3 (doi.org/10.4148/2378-5977.1383).

(48) Pedrozo, R., Jumpponen, A., and **Little, C.R.** 2016. Metabarcoding the soybean seed core mycobiome. *Phytopathology* 106: S4.14. (professional abstract)

(47) Bandara, A., Weerasooriya, D., Tesso, T., and **Little, C.** 2016. Differential effects of stalk rot diseases on photosystem II photochemical efficiency among resistant and susceptible sorghum lines. *Phytopathology* 106: S4.83. (professional abstract)

(46) Bandara, A., Tesso, T., Wang, D., Zhang, K., and **Little, C.** 2016. Impact of stalk rot diseases on sweet sorghum sugar concentration and content. *Phytopathology* 106: S4.99. (professional abstract)

(45) Bandara, A., and **Little, C.** 2016. Differential effects of *Fusarium thapsinum* on host nitric oxide (NO) synthesis among stalk rot resistant and susceptible sorghum lines. *Phytopathology* 106: S4.144. (professional abstract)

(44) Bandara, A., Weerasooriya, D., Liu, S., and **Little, C.** 2016. Stalk sugar content and charcoal rot disease reaction in grain sorghum. *Phytopathology* 106: S4.144. (professional abstract)

(43) Bandara, A., Weerasooriya, D., Liu, S., and **Little, C.** 2016. *Macrophomina phaseolina* promotes charcoal rot susceptibility in sorghum through induced host nitric oxide (NO) production. *Phytopathology* 106: S4.151. (professional abstract)

(42) Bandara, A., Weerasooriya, D., Liu, S., and **Little, C.** 2016. Induced rhamnose biosynthesis in sorghum by *Macrophomina phaseolina* contributes to charcoal rot susceptibility. *Phytopathology* 106: S4.151. (professional abstract)

(41) Bandara, A., Weerasooriya, D., Liu, S., and **Little, C.** 2016. *Macrophomina phaseolina* induces stalk senescence in charcoal rot susceptible sorghum genotypes through upregulated host *chlorophyllase-2* biosynthesis. *Phytopathology* 106: S4.151. (professional abstract)

(40) Adee, E., **Little, C.R.**, and Ciampitti, I.A. 2016. Sudden death syndrome and soybean planting date. Kansas Agricultural Experiment Station Research Reports, Vol. 2 (doi.org/10.4148/2378-5977.1225).

(39) Bandara, Y.M.A.Y., Weerasooriya, D.K., Liu, S., and **Little, C.R.** 2015. Sorghum stalk rot pathogens affect transcription of key genes involved in chlorophyll metabolism of a non-staygreen, disease susceptible genotype. *In: Annual Meeting Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Minneapolis, MN. (professional abstract)

(38) Tomar, S.S., Perumal, R., Morris, G.P., Tesso, T., and **Little, C.R.** Evaluation of a sorghum diversity panel for the grain mold pathogen, *Fusarium thapsinum*, and its impact on seed quality traits. *In: Annual Meeting Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Minneapolis, MN. (professional abstract)

(37) Bandara, Y.M.A.Y., Weerasooriya, D.K., Liu, S., and **Little, C.R.** 2015. RNAseq reveals sorghum candidate genes associated with charcoal rot resistance. *Phytopathology* 105: S4.11. (professional abstract)

(36) Bandara, Y.M.A.Y., Weerasooriya, D.K., Tesso, T.T., and **Little, C.R.** 2015. Biofuel traits of sweet sorghum are affected by *Fusarium* stalk rot and charcoal rot diseases. *Phytopathology* 105: S4.11. (professional abstract)

- (35) Bandara, Y.M.A.Y., Tesso, T.T., and **Little, C.R.** 2015. Genotype specific effects of Fusaria co-infection on grain sorghum stalk rot symptom development. *Phytopathology* 105: S4.11. (professional abstract)
- (34) Bandara, Y.M.A.Y., Tesso, T.T., and **Little, C.R.** 2015. Use of isolate mixtures for screening sorghum germplasm against Fusarium stalk rot and charcoal rot. *Phytopathology* 105: S4.12 (professional abstract)
- (33) Bushula, V.S., Leslie, J.F., and **Little, C.R.** 2015. Genetic diversity of *Fusarium andiyazi* populations from sorghum. *Phytopathology* 105: S4.21. (professional abstract)
- (32) Pedrozo, R., and **Little, C.R.** 2015. The interesting case of soybean seedborne *Fusarium* spp.: from identity to pathogenicity. *Phytopathology* 105: S4.109. (professional abstract)
- (31) Bandara, Y.M.A.Y., Weerasooriya, D.K., Liu, S., and **Little, C.R.** 2015. Whole transcriptome analysis via RNAseq reveals the potential genes conferring resistance to Fusarium stalk rot of sorghum. *Phytopathology* 105: S5. (professional abstract)
- (30) Bandara, Y.M.A.Y., and **Little, C.R.** 2014. Fusarium stalk rot and charcoal rot diseases affect nutritive qualities of grain sorghum. In: Annual Meeting Abstracts [CD-ROM]. ASA, CSSA, and SSSA, Long Beach, CA. (professional abstract)
- (29) Bandara, Y.M.A.Y., Weerasooriya, D.K., and **Little, C.R.** 2014. Staygreen mitigates the impacts of Fusarium stalk rot and charcoal rot in grain sorghum. In: Annual Meeting Abstracts [CD-ROM]. ASA, CSSA, an SSSA, Long Beach, CA. (professional abstract)
- (28) Bushula, V.S., Leslie, J.F., and **Little, C.R.** 2014. *Fusarium thapsinum* from Kansas sorghum has genetic ties to an African population. *Phytopathology* 104: S3.167 (professional abstract)
- (27) Pedrozo, R., Fenoglio, J., and **Little, C.R.** 2014. Identification and aggressiveness of soybean seedborne *Fusarium* species in Kansas. *Phytopathology* 104: S3.90 (professional abstract)
- (26) Bandara, A.Y., Weerasooriya, D.K., and **Little, C.R.** 2014. Impact of Fusarium stalk rot and charcoal rot on yield parameters of grain sorghum. *Phytopathology* 104: S3.11 (professional abstract)
- (25) Bandara, A.Y., Perumal, R., Kapanigowda, M.H., and **Little, C.R.** 2013. Screening sorghum germplasm for biotic and abiotic stress tolerance and potential use of selected physiological traits as disease severity predictors. *Phytopathology* 103: S2.11 (professional abstract)
- (24) Pedrozo, R., and **Little, C.R.** 2012. Identification and characterization of soybean seedborne fungi in Kansas. *Phytopathology* 102: S4.91 (professional abstract)
- (23) Adeyanju, A., Mahama, G., **Little, C.R.**, and Tesso, T. 2012. Response of sorghum genotypes to charcoal rot and *Fusarium* infection under three nitrogen regimes. In: Annual Meetings Abstracts [CD-ROM]. ASA, CSSA, and SSSA, Madison, WI. (professional abstract)
- (22) Kapanigowda, M., Perumal, R., Aiken, R., Bean, S., Herald, T., and **Little, C.R.** 2012. Field and controlled environment studies in sorghum (*Sorghum bicolor* (L.) Moench) lines and hybrids for cold tolerance. In: Annual Meetings Abstracts [CD-ROM]. ASA, CSSA, and SSSA, Madison, WI. (professional abstract)
- (21) Kapanigowda, M., Perumal, R., Aiken, R., Tesso, T., and **Little, C.R.** 2012. Studies on sorghum (*Sorghum bicolor* (L.) Moench) minicore germplasm and breeding lines to identify potential resistance sources for abiotic and biotic stressors. In: Annual Meetings Abstracts [CD-ROM]. ASA, CSSA, and SSSA, Madison, WI. (professional abstract)
- (20) Pedrozo, R. and **Little, C.R.** APSnet Image of the Week (February 14-28, 2012). "Phomopsis seed decay." APS publication number: FI00147; <http://www.apsnet.org/publications/imageresources/>

- (19) Whitehair, A., Presley, D.R., Martin, K.L., Stone, L.R., and **Little, C.R.** 2011. Vertical tillage effects on corn yield, disease and pathogens, and soil properties. In: Annual Meetings Abstracts [CD-ROM]. ASA, CSSA, and SSSA, Madison, WI. (professional abstract)
- (18) Brady, C.R., Noll, L.W., Saleh, A.A., and **Little, C.R.** 2011. Disease severity and microsclerotium properties of the sooty stripe pathogen, *Ramulispora sorghi*. *Phytopathology* 101: S19. (professional abstract)
- (17) Perumal, R., **Little, C.R.**, Erraitaimuthu, S.R., Prom, L.K., and Magill, C.W. 2011. Virulence and molecular genotyping studies of *Sporisorium relianum* isolates in sorghum. *Phytopathology* 101: S140. (professional abstract)
- (16) Perumal, R., **Little, C.R.**, Erraitaimuthu, S.R., Prom, L.K., and Magill, C.W. 2011. Genetic diversity and pathotype determination of *Colletotrichum sublineolum* isolates causing anthracnose disease in sorghum. *Phytopathology* 101: S140-141. (professional abstract)
- (15) Radwan, G.L., Perumal, R., Isakeit, T., Prom, L.K., **Little, C.R.**, and Magill, C.W. 2010. Screening of exotic and commercial sorghum accessions against a new virulent race (P6) of *Peronosclerospora sorghi* causing downy mildew disease. *Phytopathology* 100: S106. (professional abstract)
- (14) Noll, L.W., Butler, D.N., and **Little, C.R.** 2010. Viability staining of naturally and artificially molded sorghum caryopses using tetrazolium violet. *Phytopathology* 100: S90. (professional abstract)
- (13) Cruz, D.R., and **Little, C.R.** 2009. Influence of soils, nutrition, and water relations upon charcoal rot disease processes in Kansas. *Phytopathology* 99: S26. (professional abstract)
- (12) Noll, L.W., Prakash, S., Tilley, M., Bean, S.R., and **Little, C.R.** 2009. Viability, quality, and protein content associated with sorghum caryopses infected with grain mold fungi. *Phytopathology* 99: S94. (professional abstract)
- (11) Butler, D.N., Noll, L.W., and **Little, C.R.** 2008. Evaluating tetrazolium staining of sorghum caryopses as a screen for grain mold resistance. *Phytopathology* 98: S28. (professional abstract)
- (10) Butler, D.N., Noll, L.W., and **Little, C.R.** 2008. Tissue-specific colonization of sorghum caryopses by grain mold. *Phytopathology* 98: S28. (professional abstract)
- (9) Garza, A.A., Trevino, R., **Little, C.R.**, and Davelos Baines, A. 2008. Influence of pH inhibition by streptomycetes. *Phytopathology* 98: S58. (professional abstract)
- (8) Chaudhary, S., Davelos Baines, A., Summy, K., and **Little, C.R.** 2008. Using remote sensing to evaluate the efficacy of inoculative biocontrol. *Phytopathology* 98: S34. (professional abstract)
- (7) Garza, A.A., **Little, C.R.**, and Davelos Baines, A.L. 2007. Indigenous streptomycetes isolated from soils in the Lower Rio Grande Valley of Texas inhibit fungal pathogen activity. *Phytopathology* 97: S39 (professional abstract).
- (6) Saldana, R., Garza, A., Baines, A.L., Miller, M.E., and **Little, C.R.** 2006. Evaluating inoculation techniques for gummy stem blight disease of cantaloupe. *Phytopathology* 96: S101. (professional abstract)
- (5) Gonzales, O., Davelos Baines, A., and **Little, C.R.** 2005. Bacterial densities and inhibitory activity of indigenous microbial communities in Lower Rio Grande Valley agricultural soils. *Phytopathology* 95: S35. (professional abstract)
- (4) Martinez, E., Davelos Baines, A., and **Little, C.R.** 2005. Variation in antibiotic inhibitory activity

abilities among streptomycetes from Lower Rio Grande Valley agricultural soils. *Phytopathology* 95: S66. (professional abstract)

(3) **Little, C.** APSnet Image of the Week (August 27-September 11, 2005). "Powdery mildew on cantaloupe." APS publication number: IW000047; <http://www.apsnet.org/publications/imageresources/Pages/IW000047.aspx>

(2) **Little, C.** APSnet Image of the Week (September 6-20, 2004). "Snapdragon rust." APS publication number: IW000036; <http://www.apsnet.org/publications/imageresources/Pages/IW000036.aspx>

(1) **Little, C.R.**, and Magill, C.W. 2005. Elicitation of defense response genes in *Sorghum bicolor* (L.) Moench in response to infection by *Fusarium thapsinum* and *Curvularia lunata* at anthesis. *Phytopathology* 95: S151. (professional abstract)

Funding (from most recent)

Agency*	Duration	Grant Amount	Amount to CRL lab	Title	Role
USB	10/2022-11/2023	\$318,622	\$44,468	Seedling Pathogens in the Soybean Production Cycle: Management and Communication	Co-PI
KSSC	01/2022-12/2023	\$40,000	\$40,000	Investigating cotton seedling, wilt, and root diseases in Kansas.	PI
KSC	03/2021-02/2023	\$43,919	\$43,919	Mitigating soybean root and seedling diseases in Kansas	PI
KSC	03/2022-02/2023	\$50,372	\$21,680	Soybean production systems to improve soil health and control soil-borne diseases	Co-PI
Bayer Crop Science	01/2021-12/2021	\$4,840	\$4,840	Soybean charcoal rot screening subcontract	PI
KGSC	10/2017-9/2020	\$105,100	\$105,100	Germplasm screening, host interactions, and lodging resilience for stalk rot diseases in Kansas.	PI
KSC	03/2019-02/2020	\$39,950	\$39,950	Investigating SDS and Fusarium root rot resistance, preventative seed treatments, and pathogen variability in Kansas.	PI
KSC	03/2017-02/2019	\$70,631	\$70,631	Soybean sudden death syndrome: Germplasm screening, ILeVO seed treatment, pathogen survival on corn residue, and pathogen variability.	PI
KSC	03/2017-02/2020	\$80,724	\$32,752	Soybean production systems to control charcoal rot and other soilborne diseases.	Co-PI

USB	10/2014-09/2020	\$1,359,702	\$173,895	Seedling diseases of soybean: Characterization and education.	Coop.
NCSRP	10/2015-09/2019	\$1,082,747	\$64,450	Seedling diseases: Biology, management, and education.	Co-PI
KSC	03/2016-02/2017	\$36,568	\$36,568	Influence of planting date, ILeVO treatment, root structure, and soil compaction upon SDS in Kansas.	PI
KGSC	10/2014-09/2017	\$126,378	\$97,059	Germplasm screening, host-pathogen interactions, and inoculation techniques for sorghum stalk rot diseases in Kansas.	PI
KGSC	10/2015-09/2016	\$79,200	\$9,900	Development of sorghum germplasm with enhanced drought tolerance and higher grain yield.	Co-PI
KSC	03/2015-02/2016	\$35,153	\$35,153	Influences of irrigation regimes, planting date, and soil compaction in Kansas.	PI
KSC	03/2015-02/2016	\$15,035	\$7,279	Soybean production systems to control charcoal rot and other soilborne diseases.	Co-PI
NCSRP	03/2014-02/2016	\$180,444	\$30,000	Understanding the role of fungicide programs on soybean health and charcoal rot development.	Co-PI
KGSC	10/2014-09/2015	\$99,000	\$7,000	Development of sorghum parental (A/B and R) lines with enhanced drought/cold tolerance.	Co-PI
KSC	03/2013-02/2015	\$57,986	\$57,986	Irrigation regimes and soil oxygen content: Investigating environmental parameters associated with SDS in Kansas.	PI
USB	10/2011-09/2014	\$1,653,116	\$159,535	Identification and biology of seedling pathogens of soybean.	Coop.
KGSC	10/2011-09/2014	\$142,414	\$142,414	Screening exotic sorghum germplasm to identify new sources of stalk rot resistance.	PI
USB	03/2011-02/2014	\$1,129,599	\$175,806	Charcoal rot cultivar evaluation using adapted and exotic sources of resistance.	Coop.
USCP	11/2011-10/2013	\$40,000	\$10,000	Evaluation of advanced A/B and R lines under multi-location hybrid trials to	Co-PI

				improve sorghum yields with drought and herbicide tolerance under water deficit conditions.	
USCP	11/2011-10/2013	\$30,000	\$15,000	Development and deployment of germplasm lines with enhanced cold tolerance.	Co-PI
USCP	11/2011-10/2012	\$27,195	\$27,195	Grain quality evaluation of white food-grade sorghum lines.	PI
USCP	11/2011-10/2012	\$40,000	\$0	Study of genetic and physiological characteristics associated with improved nitrogen use efficiency and drought tolerance in sorghum.	PI
KSC	2010-2012	\$70,944	\$70,944	Understanding soybean seed, seedling, and root pathogens in Kansas.	PI
KCC	2010-2012	\$65,321	\$16,330	Vertical tillage effects on corn yield, residue composition, disease and pathogens, and soil properties.	Co-PI
USCP	11/2010-10/2011	\$20,000	\$20,000	Identifying genetic and structural sources of stalk rot resistance in diverse sorghum germplasm under dryland production.	PI
Center for Sorghum Improvement, KSU	2009-2011	\$59,540	\$59,540	Relationships between grain mold, physiochemical kernel properties, and grain quality in sorghum.	PI
Center for Sorghum Improvement, KSU	2009-2010	\$4,824	\$4,824	Center for Sorghum Improvement: End of year funding RFP	PI
NCSRP	2008-2011		\$135,000	Managing frogeye leaf spot and charcoal rot in the North Central Region.	
KSC	2008-2010	\$67,759	\$67,759	Influence of soils, nutrition, and water relations upon charcoal rot disease processes in Kansas.	PI
USB	2008-2011	\$381,766	\$180,000	Charcoal rot cultivar evaluation using adapted and exotic sources of resistance.	Coop.
INTSORMIL USAID	2007-2010	\$297,500	\$0	Ecologically-based management of sorghum and pearl millet diseases.	Collab.

KSU Targeted Excellence	2007-2010	~\$1,000,000	\$0	The Sorghum Translational Genomics Program: Mining Genomic Diversity for Sorghum Improvement	Collab.
NSF	2006-2007**	\$301,870	\$0	Long term research in biology at a Hispanic gateway institution	Collab.
NSF	2006-2007**	\$101,240	\$0	Acquisition of a Genetic Analysis System for Biology, The University of Texas - Pan American	Collab.

*KGSC = Kansas Grain Sorghum Commission; KSC = Kansas Soybean Commission; NCSRP = North Central Soybean Research Program; USB = United Soybean Board; USCP = United Sorghum Check-off Program; **I exited the position at UTPA prior to the subsequent funding years for these grants.

Presentations (*presenter) (from most recent) (see *Professional Abstracts* section for additional presentations)

(184) **Little*, C.R.** "Soybean seedling and root disease research in Kansas." (North Central Soybean Research Program, Manhattan, Kansas; August 03, 2022)

(183) **Little*, C.R.** "Investigating cotton seedling, wilt, and root diseases in Kansas: Update." (Kansas State Support Committee for Cotton, Wichita, Kansas; July 22, 2022)

(182) **Little*, C.R.** "SDS in Kansas." (Southeast Research & Extension Center Field Day, Parsons, Kansas; May 17, 2022)

(181) **Little*, C.R.** "Cotton diseases & management considerations." (Great Plains Cotton Conference, Wichita, Kansas; March 03, 2022)

(180) **Little*, C.R.** "Management strategies for charcoal rot control." (Soybean Breeders Workshop, *virtual meeting*; February 15, 2022)

(179) **Little*, C.R.** "Mitigating soybean root and seedling diseases in Kansas." (Kansas Soybean Commission, Topeka, Kansas; December 01, 2021)

(178) **Little*, C.R.** "Getting to the root of the problem: Managing SDS in Kansas." (Kansas Soybean Expo, Topeka, Kansas; January 08, 2020)

(177) **Little*, C.R.** "Investigating SDS and Fusarium root rot resistance, preventative seed treatments, and pathogen variability in Kansas." (Kansas Soybean Commission, Topeka, Kansas; December 17, 2019)

(176) Ostmeyer*, T., Jagadish, S.V.K., **Little, C.R.**, and Perumal, R. "Heterosis and combining ability traits inducing early season chilling tolerance in grain sorghum." (ASA-CSSA-SSSA International Annual Meeting, San Antonio, Texas; November 10-13, 2019)

(175) Lofing*, D., Thoele*, W., Waite, N., Schapaugh, W., and **Little, C.R.** "Analyzing soybean sudden death syndrome using a high-throughput culture extract assay." (Gamma Sigma Delta Undergraduate Poster Session, KSU; April 26, 2019)

(174) Jardine*, D.J., and **Little, C.R.** "2018 NCERA-137 Report." (Southern Soybean Diseases Workers & NCERA-137 Meeting, Pensacola, Florida; March 5-7, 2019)

- (173) **Little*, C.R.** "Investigating SDS and Fusarium root rot resistance, preventative seed treatments, and pathogen variability in Kansas." (Kansas Soybean Commission, Topeka, Kansas; December 01, 2018)
- (172) Ostmeyer*, T., Perumal, R., **Little, C.**, and Jagadish, S.V.K. "Developing high yielding sorghum hybrids with early season chilling tolerance and root rot disease." (ASA-CSSA Annual Meeting, Baltimore, Maryland; November 4-7, 2018)
- (171) **Little*, C.R.** "Understanding stalk rot disease interactions and emergent lessons for control." (Center for Sorghum Improvement, Kansas State University; October 02, 2018)
- (170) **Little*, C.R.** "A snapshot of the row crops pathology program at K-State." (Department of Plant Pathology, Kansas State University; September 06, 2018)
- (169) **Little*, C.R.** "Conditions that favor seedling diseases: Research summary at KSU." (NCSR/USB Seedling Diseases Meeting, Exselsior Springs, Missouri; September 11, 2018)
- (168) **Little*, C.R.** "Managing soybean root diseases in Kansas." (K-State Southeast Agricultural Experiment Station Crops Field Day, Parsons, Kansas; May 22, 2018) (Invited Presentation)
- (167) **Little*, C.**, Bandara, A., and Noor, A. "The interplay of oxidative stress and redox buffering in sorghum after *Macrophomina phaseolina* infection." (Global 2018: Sorghum in the 21st Century, Cape Town, South Africa; April 9-12, 2018)
- (166) Kim*, S., and **Little*, C.R.** "Plasma-activated irrigation for improving soybean development and disease tolerance." (Kansas Soybean Commission, Topeka, Kansas; March 16, 2018) (Invited Presentation)
- (165) **Little*, C.R.** 2018. "Soybean sudden death syndrome in Kansas." (Soybean Expo, Topeka, Kansas; January 10, 2018) (Contributed Presentation)
- (164) Sassenrath, G., **Little*, C.**, Hsiao, J., Shoup, D., Lin, X., and Roozeboom, K. "Soybean production systems to control charcoal rot and other soil-borne diseases." (Soybean Expo, Topeka, Kansas; January 10, 2018) (Contributed Presentation)
- (163) **Little*, C.R.**, and Adee, E. "Soybean sudden death syndrome: Germplasm screening, ILeVO seed treatment, pathogen survival on corn residue, and pathogen variability." (Kansas Soybean Commission, Topeka, Kansas; November 30, 2017) (Invited Presentation)
- (162) Sassenrath, G., **Little*, C.**, Shoup, D., and Roozeboom, K. "Soybean production systems to control charcoal rot and other soil-borne diseases." (Kansas Soybean Commission, Topeka, Kansas; November 30, 2017) (Invited Presentation)
- (161) **Little*, C.R.** "Characterization of soybean seedborne *Fusarium* spp. in the state of Kansas, USA." (Department of Biology, Microbiology Club, Kansas State University; October 11, 2017) (Invited Presentation)
- (160) **Little*, C.R.** "Seeds, seedlings, and stalks: Tales of row crops pathology in Kansas." (Department of Plant Pathology, University of Florida, Gainesville, Florida; September 05, 2017) (Invited Presentation)
- (159) **Little*, C.R.** "Germplasm screening, host interactions, and lodging resilience for stalk rot diseases in Kansas." (Kansas Grain Sorghum Commission, Garden City, Kansas; July 19, 2017) (Invited Presentation)
- (158) **Little*, C.R.** "Soybean sudden death syndrome: Germplasm screening, ILeVO seed treatment, pathogenic survival on corn residue, and pathogen variability." (Kansas Soybean Commission, Topeka, Kansas; December 1, 2016) (Invited Presentation)

- (157) **Little***, C.R. "The nature and impacts of sooty mold on sorghum." (Sorghum Improvement Conference of North America, Manhattan, Kansas; September 22, 2016) (Contributed Presentation)
- (156) Bandara*, A.Y., Weerasooriya, D.K., Liu, S., and **Little, C.R.** "*Macrophomina phaseolina* induces charcoal rot susceptibility in grain sorghum: evidence from transcriptional and functional data." (Sorghum Improvement Conference of North America, Manhattan, Kansas; September 20-22, 2016) (Contributed Presentation)
- (155) **Little***, C.R. "Germplasm screening, host-pathogen interactions, and inoculation techniques for sorghum stalk rot in Kansas." (Kansas Grain Sorghum Commission, Manhattan, Kansas; July 14, 2016) (Invited Presentation)
- (154) Radwan*, O., **Little, C.**, and Hartman, G. "Whole genome sequencing and comparative genomics of five isolates of *Macrophomina phaseolina* isolated from agronomic and prairie plant species." (Plant and Animal Genome XXIV, San Diego, California; January 9-13, 2016) (Contributed Presentation)
- (153) **Little***, C.R., Adee, E., and Presley, D. "Influences of planting date, ILeVO seed treatment, root structure, and soil compaction upon SDS in Kansas." (Kansas Soybean Commission, Topeka, Kansas; December 16, 2015) (Invited Presentation)
- (152) **Little***, C.R. "*Fusarium* experiments in Kansas." (USB/NCSRP Soybean Seedling Diseases Meeting, St. Louis, MO; November 4, 2015) (Contributed Presentation)
- (151) **Little***, C.R. "Germplasm screening and seed treatment efficacy against *Fusarium proliferatum*." (USB/NCSRP Soybean Seedling Diseases Meeting, St. Louis, MO; November 4, 2015) (Contributed Presentation)
- (150) **Little***, C.R. "The biology and management of sorghum charcoal rot." (Center for Sorghum Improvement, Kansas State University, Manhattan, Kansas; October 5, 2015) (Invited Presentation)
- (149) Bushula*, V.S., Leslie, J.F., and **Little, C.R.** "Genetic diversity in *Fusarium andiyazi* populations from sorghum." (Sorghum Improvement Conference of North America, Kansas State University, Manhattan, Kansas; September 1-3, 2015) (Contributed Presentation) (First Place Oral Presentation)
- (148) Tomar*, S.S., Perumal, R., Morris, G.P., Tesso, T., Rooney, W.L., Bean, S.R., and **Little, C.R.** "Field and laboratory-based screening of sorghum association panel lines for grain mold complex and its impact on physical and quality kernel traits." (Sorghum Improvement Conference of North America, Kansas State University, Manhattan, Kansas; September 1-3, 2015) (Contributed Presentation)
- (147) Bandara*, Y.M.A.Y., Weerasooriya, D.K., Liu, S., Perumal, R., and **Little, C.R.** "RNA-Seq elucidates the molecular basis of charcoal rot resistance." (Sorghum Improvement Conference of North America, Kansas State University, Manhattan, Kansas; September 1-3, 2015) (Contributed Presentation)
- (146) Tomar*, S.S., Perumal, R., Morris, G.P., Tesso, T., and **Little, C.R.** Evaluation of a sorghum diversity panel for resistance to the grain mold pathogen, *Fusarium thapsinum*." (National Association of Plant Breeders, Pullman, Washington; July 27-30, 2015) (Contributed Presentation)
- (145) **Little***, C.R., Perumal, R., and Tesso, T. "Germplasm screening, host-pathogen interactions, and inoculation techniques for sorghum stalk rot diseases in Kansas." (Kansas Grain Sorghum Commission, Manhattan, Kansas; July 22, 2015) (Invited Presentation)
- (144) Bandara*, A., Weerasooriya, D., Tesso, T., and **Little, C.R.** "Staygreen alleviates the effects of

stalk rot diseases in grain sorghum." (K-State Research Forum, Manhattan, Kansas; March 31, 2015) (Contributed Presentation)

(143) **Little***, **C.R.**, Adee, E., and Presley, D. "Influences of irrigation regimes, planting date, and soil compaction upon SDS in Kansas." (Kansas Soybean Commission, Topeka, Kansas; December 4, 2014) (Invited Presentation)

(142) **Little***, **C.R.** "Environmental parameters associated with sudden death syndrome." (Southern Soybean Breeder's Tour, Rossville, Kansas; September 3, 2014) (Invited Presentation)

(141) **Little***, **C.R.**, Perumal, R., and Tesso, T. "Germplasm screening, host-pathogen interactions, and inoculation techniques for sorghum stalk rot in Kansas." (Kansas Grain Sorghum Commission, Manhattan, Kansas; July 23, 2014) (Invited Presentation)

(140) Tomar*, S.S., Perumal, R., Peterson, G.C., Rooney, W.L., Bean, S.R., Tesso, T., and **Little, C.R.** "Evaluation of sorghum lines for resistance to grain mold fungi and quality traits." (Sorghum Improvement Conference of North America, Corpus Christi, Texas; June 25-27, 2014) (Contributed Presentation)

(139) Perumal, R., Tomar*, S.S., Bandara, Y.M.A.Y., Maduraimuthu, J., Prasad, P.V.V., Tesso, T., and **Little, C.R.** "Evaluation of selected sorghum genotypes for drought and stalk rot tolerance over three years." (Sorghum Improvement Conference of North America, Corpus Christi, Texas; June 25-27, 2014) (Contributed Presentation)

(138) Bandara*, Y.M.A.Y., Weersooriya, D.K., Tesso, T., Prasad, P.V.V., and **Little, C.R.** "Potential impacts of stalk rot diseases on the sorghum bioethanol industry." (K-State Energy Symposium, Manhattan, Kansas; April 10, 2014) (Contributed Presentation)

(137) Bandara*, A., Perumal, R., and **Little, C.R.** "Screening for stalk rot and drought tolerance: towards enhanced sorghum productivity." (K-State Research Forum, Manhattan, Kansas; March 26, 2014) (Contributed Presentation)

(136) **Little***, **C.R.** "Soybean seedling disease and *Fusarium* spp. experiments in Kansas." (NCSRP/USB Soybean Seedling Disease Meeting, Des Moines, Iowa; March 19, 2014) (Invited Presentation)

(135) **Little***, **C.R.**, Adee, E., and Presley, D. "Irrigation regimes and soil oxygen content: investigating environmental parameters associated with SDS in Kansas." (Kansas Soybean Commission, Topeka, Kansas; November 30, 2013) (Invited Presentation)

(134) O'Mara*, J., **Little, C.R.**, Rotenberg, D., Whitfield, A., and Kennelly, M. "Plant Scientists Wanted! APS Undergraduate Outreach Event." (K-State Research and Annual Conference, Manhattan, Kansas; October 22, 2013) (Contributed Presentation)

(133) **Little***, **C.R.** "An introduction to the biology and management of *Macrophomina phaseolina* in Kansas agroecosystems." (Wichita State University, Department of Biology, Wichita, Kansas; September 23, 2013) (Invited Presentation)

(132) Bushula, V. and **Little, C.R.** "Population structure & pathogenicity of *Fusarium thapsinum* from Kansas sorghum." (Kansas State University, Center for Sorghum Improvement, Manhattan, Kansas; September 16, 2013) (Contributed Presentation)

(131) Bandara, A., and **Little, C.R.** "Filling the gaps in sorghum stalk rot pathology." (Kansas State University, Center for Sorghum Improvement, Manhattan, Kansas; September 16, 2013) (Contributed Presentation)

(130) **Little, C.R.** "Screening exotic sorghum germplasm to identify new sources of stalk rot

resistance." (Sorghum Improvement Conference of North America, Lubbock, Texas; August 29, 2013) (Invited Presentation)

(129) Bandara*, Y.M.A.Y., Weerasooriya, D.K., Perumal, R., Tesso, T., and **Little, C.R.** "Optimization of *Macrophomina phaseolina* inoculum for enhanced diseased reactions in sorghum." (Sorghum Improvement Conference of North America, Lubbock, Texas; August 28-30, 2013) (Contributed Presentation)

(128) Bandara*, Y.M.A.Y., Perumal, R., Kapanigowda, M.H., and **Little, C.R.** "Evaluation of exotic sorghum germplasm for stalk rot and drought tolerance." (Sorghum Improvement Conference of North America, Lubbock, Texas; August 28-30, 2013) (Poster)

(127) Bandara*, Y.M.A.Y., Perumal, R., Kapanigowda, M.H., and **Little, C.R.** "Screening sorghum germplasm for biotic and abiotic stress tolerance and potential use of selected physiological traits as disease severity predictors." (Annual Meeting of the American Phytopathological Society, Austin, Texas; August 10-14, 2013) (Contributed Presentation)

(126) **Little*, C.R.** "Screening exotic sorghum germplasm to identify new sources of stalk rot resistance." (Kansas Grain Sorghum Commission, Manhattan, Kansas; July 9, 2013) (Invited Presentation)

(125) Pedrozo*, R., and **Little, C.R.** "Identification and aggressiveness of *Fusarium* species from soybean seed in Kansas, USA." (30th International Seed Testing Association Congress, Antalya, Turkey; June 12-18, 2013) (Poster)

(124) Bandara, Y.M.A.Y., Perumal, R., and **Little, C.R.** "A tolerance-based index for effective screening of sorghum accessions against stalk rot diseases." (North Central Division Meeting of the American Phytopathological Society, Kansas State University, Manhattan; June 13, 2013) (Contributed Presentation)

(123) Halderson*, M., and **Little, C.R.** "Yield and seed viability of 36 sorghum B-lines after inoculation with *Fusarium thapsinum* and *Macrophomina phaseolina*." (College of Agriculture Research Showcase, Kansas State University, Manhattan; April 26, 2013) (Poster)

(122) Bandara*, Y.M.A.Y., Perumal, R., and **Little, C.R.** "An effective approach to minimize the yield loss of sorghum (*Sorghum bicolor* (L.) Moench) due to stalk rot fungi." (59th Conference on Soilborne Plant Pathogens, Oregon State University, Corvallis, Oregon; March 27, 2013) (Contributed Presentation)

(121) **Little*, C.R.** "Multi-environment soybean cultivar evaluation for charcoal rot resistance." (Soybean Breeders Workshop, Kansas City, Missouri; February 12, 2013) (Invited Presentation)

(120) **Little*, C.R.**, Adee, E., Presley, D. "Irrigation regimes and soil oxygen content: investigating environmental parameters associated with SDS in Kansas." (Kansas Soybean Commission, Topeka, Kansas; November 30, 2012) (Invited Presentation)

(119) **Little*, C.R.** "Analysis of first three years of USB charcoal rot multi-environment screening project." (USB Charcoal Rot Meeting, Kansas City, Missouri; November 16, 2012) (Invited Presentation)

(118) **Little*, C.R.** "Effect of environmental conditions on seedling pathogens." (USB/NCSRP Seedling Diseases Meeting, Kansas City, Missouri; November 15, 2012) (Invited Presentation)

(117) **Little*, C.R.** "Screening exotic sorghum germplasm to identify new sources of stalk rot resistance." (Kansas Grain Sorghum Commission, Manhattan, Kansas; October 11, 2012) (Invited Presentation)

- (116) **Little*, C.R.** "Integrating biotic and abiotic stress tolerance: an emergent priority for row crops pathology in Kansas." (Department of Plant Pathology, Kansas State University, Manhattan, Kansas; September 20, 2012) (Invited Presentation)
- (115) Bandara*, A., Halderson, M., Noll, L.W., Perumal, R., and **Little, C.R.** "Screening of selected drought-tolerant sorghum B lines against the stalk rot pathogens, *Macrophomina phaseolina* and *Fusarium thapsinum*." (Sorghum Improvement Conference of North America/Great Plains Sorghum Conference, Manhattan, Kansas; August 28-30, 2012) (Contributed Presentation)
- (114) Bushula*, V., and **Little, C.R.** "Genetic diversity and pathogenicity of *Fusarium thapsinum* isolates from sorghum." (Sorghum Improvement Conference of North America/Great Plains Sorghum Conference, Manhattan, Kansas; August 28-30, 2012) (Contributed Presentation)
- (113) Halderson*, M., Perumal, R., Noll, L.W., and **Little, C.R.** "Yield and seed viability after stalk inoculation of 36 sorghum B lines with *Fusarium thapsinum* and *Macrophomina phaseolina* after anthesis." (Sorghum Improvement Conference of North America/Great Plains Sorghum Conference, Manhattan, Kansas; August 28-30, 2012) (Poster)
- (112) **Little*, C.R.**, Errattaimuthu, S.R., Tesso, T., and Perumal, R. "Impact of stalk rot and charcoal rot upon caryopsis formation and viability in sorghum." (Sorghum Improvement Conference of North America/Great Plains Sorghum Conference, Manhattan, Kansas; August 28-30, 2012) (Poster)
- (111) Kapanigowda*, M.H., Perumal, R., Aiken, R., Bean, S.R., and **Little, C.R.** "Evaluation of sorghum [*Sorghum bicolor* (L.) Moench] lines and hybrids for cold tolerance under field and controlled environments." (Sorghum Improvement Conference of North America/Great Plains Sorghum Conference, Manhattan, Kansas; August 28-30, 2012) (Poster)
- (110) Kapanigowda*, M.H., Perumal, R., Aiken, R., Tesfaye, T., and **Little, C.R.** "Studies on sorghum [*Sorghum bicolor* (L.) Moench] minicore germplasm and breeding lines to identify potential sources for abiotic and biotic stressors." (Sorghum Improvement Conference of North America/Great Plains Sorghum Conference, Manhattan, Kansas; August 28-30, 2012) (Poster)
- (109) **Little, C.R.**, Perumal*, R., Noll, L.W., Errattaimuthu, S., and Kapanidowda, M.H. "Impacts of cold temperature stress upon *Pythium* seedling disease in sorghum." (Sorghum Improvement Conference of North America/Great Plains Sorghum Conference, Manhattan, Kansas; August 28-30, 2012) (Poster)
- (108) **Little*, C.R.** "Evaluation of charcoal rot resistance in sorghum." (Sorghum Improvement Conference of North America/Great Plains Sorghum Conference, Manhattan, Kansas; August 28-30, 2012) (Invited Presentation)
- (107) Pedrozo*, R., and **Little, C.R.** "Etiology, mechanisms of infection, and transmissibility of *Fusarium* spp. and *Phomopsis longicolla* in soybean seeds." (129th Convention of the American Seed Trade Association, Washington, D.C.; June 20-23, 2012) (Invited Presentation)
- (106) **Little*, C.R.** "Life in the spermosphere: the microbial dynamics of Kansas soils and seeds." (144th Annual Meeting of the Kansas Academy of Science, Wichita, Kansas; March 29, 2012) (Contributed Presentation)
- (105) **Little*, C.R.** "Charcoal rot cultivar evaluation using adapted and exotic sources of resistance: update to USB of field screening activities." (United Soybean Board, Chesterfield, Missouri; December 2, 2011) (Invited Presentation)
- (104) **Little*, C.R.** "High quality seed as a main feature for managing soybean seedling diseases and root pathogens." (Kansas Soybean Commission, Topeka, Kansas; December 1, 2011) (Invited Presentation)

- (103) **Little***, **C.R.** "Introduction to sorghum: varieties, agronomics, and mycotoxins in the field." (International Grains Program, USGC Israeli Sorghum Usage Workshop, Manhattan, Kansas; November 7, 2011) (Invited Presentation)
- (102) Pedrozo*, R., and **Little, C.R.** "High quality seed as a main feature for agricultural improvement." ("Research and the State" Graduate Student Poster Session, Kansas State University, Manhattan, Kansas; October 31, 2011) (Contributed Presentation)
- (101) Bushula*, V., and **Little, C.R.** "Genetic diversity in *Fusarium thapsinum* isolates from Kansas." ("Research and the State" Graduate Student Poster Session, Kansas State University, Manhattan, Kansas; October 31, 2011) (Contributed Presentation) (**Top 10 winner in local poster competition at KSU)
- (100) **Little***, **C.R.**, Perumal, R., and Tesso, T. "Collaborative stalk rot research efforts at K-State." (Sorghum Improvement Conference of North America, Stillwater, Oklahoma; September 12-14, 2011) (Contributed Presentation)
- (99) **Little***, **C.R.**, Bean, S., Wilson, J., and Tilley, M. "Relating mold and weathering levels to sorghum grain color and quality." (United Sorghum Checkoff Program Sorghum Food Use Meeting, Stillwater, Oklahoma; September 12, 2011) (Invited Presentation)
- (98) Bean, S., **Little***, **C.R.**, Wilson, J., and Tilley, M. "Evaluation of physical and biochemical properties and food quality in white-tan sorghum hybrids." (United Sorghum Checkoff Program Sorghum Food Use Meeting, Stillwater, Oklahoma; September 12, 2011) (Invited Presentation)
- (97) Brady, C.R., Noll, L.W., Saleh, A.A., and **Little***, **C.R.** "Disease severity and microsclerotium properties of the sorghum sooty stripe pathogen, *Ramulispora sorghi*." (Sorghum Improvement Conference of North America, Stillwater, Oklahoma; September 12-14, 2011) (Poster)
- (96) Perumal*, R., Tesso, T., Aiken, R., and **Little, C.R.** "Research priorities and current status of sorghum breeding in Kansas - An overview." (Sorghum Improvement Conference of North America, Stillwater, Oklahoma; September 12-14, 2011) (Poster)
- (95) Perumal, R., **Little***, **C.R.**, Errattaimuthu, S.R., Prom, L.K., and Magill, C.W. "Virulence and molecular genotyping studies of *Sporisorium reilianum* isolates in sorghum." (Sorghum Improvement Conference of North America, Stillwater, Oklahoma; September 12-14, 2011) (Poster)
- (94) Perumal, R., **Little***, **C.R.**, Errattaimuthu, S.R., Prom, L.K., and Magill, C.W. "Genetic diversity and pathotype determination of *Colletotrichum sublineolum* isolates causing anthracnose disease in sorghum." (Sorghum Improvement Conference of North America, Stillwater, Oklahoma; September 12-14, 2011) (Poster)
- (93) Perumal*, R., Tesso, T., Aiken, R., and **Little, C.R.** "Evaluation of advanced breeding lines and new sources for cold tolerance in sorghum." (Sorghum Improvement Conference of North America, Stillwater, Oklahoma; September 12-14, 2011) (Poster)
- (92) Michaud, J.P., Perumal*, R., and **Little, C.R.** "Identifying new sources of resistance to greenbug from exotic sorghum germplasm." (Sorghum Improvement Conference of North America, Stillwater, Oklahoma; September 12-14, 2011) (Poster)
- (91) **Little***, **C.R.**, Perumal, R., and Tesfaye, T. "Screening exotic sorghum germplasm to identify new sources of stalk rot resistance." (Kansas Grain Sorghum Commission, Manhattan, Kansas; August 31, 2011) (Invited Presentation)
- (90) Kapanigowda*, M., Perumal, R. Aiken, R., and **Little, C.R.** "Evaluation of advanced breeding lines and new sources for cold tolerance in sorghum." (Western Agricultural Research Center - Hays Field

Day, Hays, Kansas; August 23, 2011) (Poster)

(89) Perumal*, R., Tesso, T., Aiken, R., and **Little, C.R.** "Cold and drought tolerance in Kansas sorghum breeding." (5th Annual Plant Breeding Coordinating Committee Meeting/1st Annual National Association of Plant Breeding Meeting, College Station, Texas; May 23-25, 2011) (Poster)

(88) **Little*, C.R.** "Evaluation of charcoal rot resistance in soybean and sorghum in drought-prone environments." (North Central Division Meeting, American Phytopathological Society, Omaha, Nebraska; June 16, 2011) (Invited Presentation)

(87) **Little*, C.R.**, Noll, L.W., Todd, T.C., and Pedrozo, R. "Understanding soybean seed, seedling, and root pathogens in Kansas." (Kansas Soybean Expo, Topeka, Kansas; January 12, 2011) (Contributed Presentation)

(86) Brzostowski, L., Schapaugh*, W.T, **Little, C.R.**, and Todd, T.C. "Impact of *Fusarium virguliforme* and *Heterodera glycines* on soybean." (Kansas Soybean Expo, Topeka, Kansas; January 12, 2011) (Contributed Presentation)

(85) **Little*, C.R.** "Developing management options for frogeye leaf spot and charcoal rot in the North Central region." (North Central Soybean Research Program, St. Louis, Missouri; December 7, 2010) (Invited Presentation)

(84) **Little*, C.R.** "Understanding soybean seed, seedling, and root pathogens in Kansas." (Kansas Soybean Commission, Topeka, Kansas; December 3, 2010) (Invited Presentation)

(83) **Little*, C.R.** "SDS Disease update for Kansas." (NCSRP Sudden Death Syndrome Fall Meeting, Fayetteville, Arkansas; November 18, 2010) (Contributed Presentation)

(82) Brzostowski, L., Schapaugh* W.T., **Little, C.R.**, and Todd, T.C. 2010. "Effect of *F. virguliforme* and *H. glycines* on soybean." (Annual Meetings of ASA, CSSA, and SSSA, Long Beach, California; November 1, 2010) (Contributed Presentation)

(81) Rzdokiewicz, P., Todd, T.C., **Little, C.R.**, and Schapaugh*, W.T. 2010. "Characterization of soybean cyst nematode in Kansas. (Annual Meetings of ASA, CSSA and SSSA, Long Beach, California; November 1, 2010) (Contributed Presentation)

(80) **Little*, C.R.** "Determining the role of drought stress, soil physical and biological properties and aggressiveness of *M. phaseolina* isolates on charcoal rot incidence and severity." (NCSRP Frogeye Leaf Spot and Charcoal Rot Research Meeting, Fayetteville, Arkansas; November 18, 2010) (Contributed Presentation)

(79) **Little*, C.R.** "Charcoal rot cultivar evaluation using adapted and exotic sources of resistance." (USB Charcoal Rot Research Meeting, Fayetteville, Arkansas; November 18, 2010) (Contributed Presentation)

(78) **Little*, C.R.** "Assessing the minor programs." (Fall Assessment Showcase, Kansas State University, Manhattan; November 3, 2010) (Contributed Teaching Presentation)

(77) Tilley, M., Prakash, S.R., Noll, L.W., Bean, S.R., and **Little*, C.R.** "Development of a Real-Time PCR assay for *Fusarium thapsinum* in grain sorghum." (Annual Meeting of the American Association of Cereal Chemists, Savannah, Georgia; October 24-27, 2010) (Poster)

(76) **Little*, C.R.** "Sorghum pathology research round-up." (Great Plains Sorghum Conference/SICNA, Mead, Nebraska; August 11, 2010) (Contributed Presentation)

(75) **Little*, C.R.** "Soils, seeds, and stalks: tales of row crops pathology in Kansas." (Iowa State University Plant Pathology Departmental Retreat, Ames, Iowa; June 11, 2010) (Invited Presentation)

- (74) Cruz, D.R.* and **Little, C.R.** "Influence of soils, nutrition, and water relations upon charcoal rot disease processes in Kansas." (Kansas State University Research Forum, Manhattan, Kansas; April 4, 2010) (Poster) (**Honorable Mention in the poster competition.)
- (73) **Little, C.R.*** and Leandro, L.* "Overview of regional soybean sudden death (SDS) projects." (NCERA-212 Soybean Diseases Committee Meeting, St. Louis, Missouri; February 24, 2010) (Invited Presentation)
- (72) **Little, C.R.*** and Jardine, D.J.* "Kansas soybean disease research and extension update." (NCERA-212 Soybean Diseases Committee Meeting, St. Louis, Missouri; February 24, 2010) (Contributed Presentation)
- (71) Cruz, D.R., Noll, L.W., Presley, D., Prasad, P.V.V., Roozeboom, K., and **Little, C.R.*** "Influence of soils, nutrition, and water relations upon charcoal rot disease processes in Kansas." (Kansas Soybean Expo, Topeka, Kansas; January 6, 2010) (Poster)
- (70) **Little, C.R.*** "Understanding seed, seedling, and root pathogens of soybeans in Kansas." (Kansas Soybean Commission, Manhattan, Kansas; December 10, 2009) (Invited Presentation)
- (69) **Little*, C.R.** "Brief status update of soybean sudden death in Kansas, 2009." (NCSRP SDS Meeting, SIUC, Carbondale, Illinois; November 19, 2009.) (Contributed Presentation)
- (68) **Little, C.R.*** "Viability, quality, and protein content associated with sorghum caryopses infected with grain mold fungi." (Sorghum Improvement Conference of North America, Amarillo, Texas; August 10-12, 2009) (Contributed Presentation)
- (67) Noll, L.W., Prakash, S., Tilley, M., Bean, S.R., and **Little C.R.*** "Viability, quality, and protein content associated with sorghum caryopses infected with grain mold fungi." (Annual Meeting of the American Phytopathological Society, Portland, Oregon; August 1-5, 2009) (Poster)
- (66) Cruz, D.R.* , and **Little, C.R.** "Influence of soils, nutrition, and water relations upon charcoal rot disease processes in Kansas." (Annual Meeting of the American Phytopathological Society, Portland, Oregon; August 1-5, 2009) (Poster)
- (65) **Little, C.R.*** "Introduction to sorghum (Sorghum varieties and agronomics; Mycotoxins in the field)." (International Grains Program, USGC Mexican Sorghum Usage Workshop, Manhattan, Kansas; July 27, 2009) (Invited Presentation)
- (64) **Little, C.R.*** "Integrated pest management of sorghum diseases: a focus on grain mold." (Integrated Pest Management Symposium, Portland, Oregon; March 24, 2009) (Invited Presentation)
- (63) **Little, C.R.*** "Soybean diseases and research in Kansas." (Presentation to the Heilongjiang Agricultural Delegation, KSU; February 19, 2009) (Invited Presentation)
- (62) **Little, C.R.*** and Jardine, D.J. "Kansas soybean diseases: research and extension update." (NCERA-137 Soybean Diseases Committee Meeting, Isabela, Puerto Rico; January 26, 2009) (Contributed Presentation)
- (61) Cruz, D., Noll, L.W., Presley, D., Prasad, P.V.V., Roozeboom, K., and **Little, C.R.*** "Influence of soils, nutrition, and water relations upon charcoal rot incidence and severity in Kansas." (Kansas Soybean Expo, Topeka, Kansas; January 7, 2009) (Poster)
- (60) **Little, C.R.*** "Influence of soils, nutrition, and water relations upon charcoal rot incidence and severity in Kansas." (Kansas Soybean Board, KSU, Manhattan, Kansas; December 4, 2008) (Invited Presentation)
- (59) **Little, C.R.*** "Sorghum grain mold research activities at KSU." (Center for Sorghum Improvement, KSU, Manhattan, Kansas; November 3, 2008) (Invited Presentation)

- (58) **Little, C.R.*** "Sorghum grain mold research at KSU." (Great Plains Sorghum Conference, Manhattan, Kansas; September 3, 2008) (Invited Presentation)
- (57) **Little, C.R.*** "Charcoal rot research objectives and update." (North Central Soybean Pathologists Meeting, University of Wisconsin - Kemp Station, Lake Tomahawk, Wisconsin; August 27, 2008) (Invited Presentation)
- (56) **Little, C.R.*** "Interdisciplinary charcoal rot studies at Kansas State University." (Kansas Soybean Commission and North Central Soybean Research Program, Manhattan, Kansas; August 21, 2008) (Invited Presentation)
- (55) Butler, D.N., Noll, L.W., and **Little, C.R.*** "Evaluating tetrazolium staining of sorghum caryopses as a screen for grain mold resistance." (Centennial Meeting of the American Phytopathological Society, Minneapolis, Minnesota; July 25-30, 2008) (Poster)
- (54) Butler, D.N., Noll, L.W., and **Little, C.R.*** 2008. "Tissue-specific colonization of sorghum caryopses by grain mold." (Centennial Meeting of the American Phytopathological Society, Minneapolis, Minnesota; July 25-30, 2008) (Poster)
- (53) Garza, A.A.*, Trevino, R., **Little, C.R.**, and Davelos Baines, A. 2008. "Influence of pH inhibition by streptomycetes." (Centennial Meeting of the American Phytopathological Society, Minneapolis, Minnesota; July 25-30, 2008) (Poster)
- (52) Chaudhary, S.*, Davelos Baines, A., Summy, K., and **Little, C.R.** 2008. "Using remote sensing to evaluate the efficacy of inoculative biocontrol." (Centennial Meeting of the American Phytopathological Society, Minneapolis, Minnesota; July 25-30, 2008) (Contributed Presentation)
- (51) Chaudhary, S.*, Davelos Baines, A., Summy, K.R., and **Little, C.R.** "Applications of remote sensing technology for the evaluation of *Streptomyces* isolates for biocontrol of gummy stem blight of cantaloupes." (62nd Annual Meeting of the Rio Grande Valley Horticultural Society, Weslaco, Texas; January 18, 2008) (Contributed Presentation)
- (50) **Little, C.R.*** "Influence of soils, nutrition, and water relations upon charcoal rot incidence and severity in Kansas." (Kansas Soybean Commission, Manhattan, Kansas; November 29, 2007) (Invited Presentation)
- (49) Garza*, A., **Little, C.R.**, and Davelos Baines, A. "Indigenous *Streptomyces* isolated from soils in the Lower Rio Grande Valley of Texas inhibit fungal pathogen activity." (2007 Joint Meeting of the American Phytopathological Society and Society of Nematology, San Diego, California; August 2007) (Contributed Presentation)
- (48) Salazar, D., **Little, C.R.**, Mazariegos, R.A., Summy, K.R.*, Everitt, J.H., and M.R. Davis. "Development of thematic vegetation maps for agricultural crops in southern Texas and their role in integrated pest management programs." (21st Biennial Workshop on Aerial Photography, Videography, and High Resolution Digital Imagery for Resource Assessment, Terre Haute, Indiana; May 14-16, 2007) (Contributed Presentation)
- (47) Summy, K.R.*, **Little, C.R.**, French, V.J., Setamou, M., Mata, J., and Everitt, J.H. "Spectral changes in citrus associated with damage caused by foliar-feeding arthropods, and their detection using color infrared imagery and selected image enhancement techniques." (21st Biennial Workshop on Aerial Photography, Videography, and High Resolution Digital Imagery for Resource Assessment, Terre Haute, Indiana; May 14-16, 2007) (Seminar)
- (45) Everitt, J.H., Lonard, R.I.*, and **Little, C.R.** "A guide to identification of weeds in south Texas and northern Mexico." (110th Annual Meeting of the Texas Academy of Science, Waco, Texas; March 1-3, 2007) (Poster)

- (44) Saldana, R.*, Garza, A., Davelos Baines, A.L., Miller, M.E., and **Little, C.R.** “Evaluating inoculation techniques for gummy stem blight disease of cantaloupe.” (61st Annual Meeting of the Rio Grande Valley Horticultural Society, UTPA, Edinburg, Texas; January 19, 2007) (Poster)
- (43) **Little, C.R.*** “Facultative pathogenesis of the sorghum caryopsis.” (Department of Plant Pathology, Kansas State University, Manhattan, Kansas; November 20, 2006) (Invited Seminar)
- (42) Saldana, R., Garza, A.*, Davelos Baines, A.L., Miller, M.E., and **Little, C.R.** “Evaluating inoculation techniques for gummy stem blight disease of cantaloupe.” (2006 Joint Annual Meeting of APS/MSA/CSA, Quebec City, Quebec, Canada; July 29-August 2, 2006) (Poster)
- (41) Haslem, P.*, French, J.V., Summy, K.R., and **Little, C.R.** “Use of color infrared technology to detect insect and mite damage in glasshouse crops.” (77th Rocky Mountain Conference of Entomologists, Woodland Park, Colorado; August 1, 2006) (Seminar)
- (40) Guerra, S.*, Gonzalez, M., Garza, R., **Little, C.R.**, and Davelos Baines, A.L. “Competition studies between streptomycetes and the root pathogen *Rhizoctonia solani*.” (Advanced College Experiences in the Biological Sciences (ACEBS) Poster Session, Edinburg, Texas, UTPA; July 10, 2006) (Poster)
- (39) **Little, C.R.*** “PAUH: The University of Texas – Pan American herbarium.” (1st Annual Meeting of the Texas-Oklahoma Regional Consortium of Herbaria, Ft. Worth, Texas; May 6, 2006) (Seminar)
- (38) Garza, A.*, **Little, C.R.**, and Davelos Baines, A. “Pathogen inhibitory activity of indigenous *Streptomyces* from Lower Rio Grande Valley agricultural soils.” (109th Annual Meeting of the Texas Academy of Science, Beaumont, Texas; March 2-5, 2006) (Seminar)
- (37) **Little, C.R.***, and Summy, K.R. “Monitoring abiotic and biotic stressors in glasshouse crops using color infrared imagery.” (83rd Annual Meeting of the Southern Division of American Phytopathological Society (103rd Annual Meeting of the Southern Association of Agricultural Scientists), Orlando, Florida; February 5-7, 2006) (Contributed Presentation)
- (36) **Little, C.R.***, and Summy, K.R. “Detection of stressors in glasshouse crops using color infrared imagery: I. Damage caused by fungal pathogens and sooty mold.” (20th Biennial Workshop on Aerial Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Weslaco, Texas; October 4-6, 2005) (Seminar)
- (35) **Little, C.R.***, Vasquez, A.M., Hannah, M.D., Villanueva, M.A., Yousef, S., and Summy, K.R. “A technique to facilitate accurate spectral reflectance measurements and color infrared imagery of individual leaves.” (20th Biennial Workshop on Aerial Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Weslaco, Texas; October 4-6, 2005) (Poster)
- (34) Salazar, D.*, Bernabe, S., Acevado, I., **Little, C.R.**, Summy, K.R., Mazariegos, R.A., Everitt, J.H., and Davis, M.R. “Spectral properties of common weeds associated with cotton and their detection and mapping using aerial color photography.” (20th Biennial Workshop on Aerial Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Weslaco, Texas; October 4-6, 2005) (Poster)
- (33) Salazar, D.*, Summy, K.R., **Little, C.R.**, Mazariegos, R.A., Everitt, J.H., and Davis, M.R. “Assessment of single date and multispectral classification using color infrared photography for selected row crop identification in south Texas.” (20th Biennial Workshop on Aerial Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Weslaco, Texas; October 4-6, 2005) (Seminar)
- (32) Summy, K.R.*, **Little, C.R.**, Mazariegos, R.A., Salazar, D., Everitt, J.H., Davis, M.R., and Scott, A.W. “Rationale and effectiveness of aerial color infrared photography for detecting fields of fallow-

season cotton in southern Texas.” (20th Biennial Workshop on Aerial Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Weslaco, Texas; October 4-6, 2005) (Poster)

(31) Summy, K.R.*, **Little, C.R.**, Mazariegos, R.A., French, J.V., and Scott, A.W. “Detection of stressors in glasshouse crops using color infrared imagery: II. Damage caused by insect and mite pests.” (20th Biennial Workshop on Aerial Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Weslaco, Texas; October 4-6, 2005) (Poster)

(30) Yousef, S., Summy, K.R., **Little, C.R.***, Kuang, A., DeYoe, H., and Everitt, J.H. “Detection of stressors in glasshouse crops using color infrared imagery: III. Effects of salt toxicity and nutrient deficiencies.” (20th Biennial Workshop on Aerial Photography, Videography, and High-Resolution Digital Imagery for Resource Assessment, Weslaco, Texas; October 4-6, 2005) (Poster)

(179) **Little***, **C.R.** "Management strategies for charcoal rot control." (Soybean Breeders Workshop, virtual meeting; February 15, 2022)

(29) Ruiz, R.*, and **Little, C.R.** “The effect of ferulic acid on development and mycotoxin production of *Aspergillus parasiticus* and *A. flavus*.” (HESTEC Student Science Symposium, UTPA, September 26, 2005) (Poster and Seminar)

(28) Garza, A.*, **Little, C.R.**, and Davelos Baines, A. “Pathogen inhibitory activity of indigenous *Streptomyces* from Lower Rio Grande Valley agricultural soils.” (HESTEC Student Science Symposium, UTPA, September 26, 2005) (Poster)

(27) Salazar, D.*, Mazariegos, R.A., **Little, C.R.**, Everitt, J., and Summy, K.R. "Using multispectral imagery to determine representative spectral values in agricultural research" (HESTEC Student Science Symposium, UTPA, September 26, 2005) (Poster)

(26) Bruce, J.*, Lloren, C., Whelan, T., De Yoe, H., Summy, K.R., Murphy, A., **Little, C.**, and Persans, M.W. “Environmental oxidative stress measured in two populations of the seagrass *Thalassia testudinum* growing in the Lower Laguna Madre, Texas.” (Summer Undergraduate Research Program, University of Texas Medical Branch, Galveston, Texas; August 11, 2005) (Poster)

(25) Ruiz, R.*, and **Little, C.R.** "The effect of ferulic acid on mycotoxin production and sclerotial formation in *Aspergillus flavus*." (2005 Annual Meeting of the Mycological Society of America, Hilo, Hawaii; July 31-August 4, 2005) (Poster)

(24) Garza, A., Gonzales, O., **Little, C.R.***, and Davelos Baines, A. "Bacterial densities and inhibitory activity of indigenous microbial communities in Lower Rio Grande Valley agricultural soils." (2005 Annual Meeting of the American Phytopathological Society, Austin, Texas; July 31-August 3, 2005) (Poster)

(23) Martinez, E., **Little, C.R.***, and Davelos Baines, A. "Variation in antibiotic inhibitory abilities among streptomycetes from Lower Rio Grande Valley agricultural soils." (2005 Annual Meeting of the American Phytopathological Society, Austin, Texas; July 31-August 3, 2005) (Poster)

(22) Holliday, A.*, Ruiz, R., and **Little, C.R.** "Effect of ferulic acid on conidium and sclerotium production by *Aspergillus flavus*." (2005 UTPA Upward Bound Math and Science Research Symposium, July 7-8, 2005) (Poster)

(21) Gonzalez, S.*, Mata, M.*, Hamlet, R., Persans, M.W., and **Little, C.R.** "Mycoflora associated with the metal accumulating plants *Streptanthus polygaloides* and *Thlapsi montanum*." (2005 UTPA Upward Bound Math and Science Research Symposium, July 7-8, 2005) (Poster)

(20) **Little, C.R.***, and Summy, K.R. "Life on the phyllosphere: honeydew secretion, insect parasitism,

and the mycobiota of citrus." (108th Annual Meeting of the Texas Academy of Science, Edinburg, Texas; March 5, 2005) (Seminar)

(19) Vasquez, A.M.*, Hannah, M.D., Villanueva, M.A., Yousef, S., **Little, C.R.**, and Summy, K.R. "A technique to facilitate accurate spectral measurements and color infrared imagery of individual leaves." (108th Annual Meeting of the Texas Academy of Science, March 4-5, 2005) (Poster)

(18) **Little, C.R.***, and Summy, K.R. "The blackfly-sooty mold-fungal pathogen complex of Rio Grande Valley Citrus." (59th Annual Meeting of the Rio Grande Valley Horticultural Society, January 19, 2005) (Contributed Presentation)

(17) **Little, C.R.*** "Evaluation of light transmittance and absorption, photosynthetic efficiency, and chlorophyll content with significant sooty mold infestation of citrus." (Texas Citrus Mutual Board, August 31, 2004) (Seminar)

(16) Ruiz, R., and **Little, C.R.*** "The effect of ferulic acid on growth and development of *Aspergillus niger*, *A. fumigatus*, *A. parasiticus*, and *A. flavus*." (2004 Annual Meeting of the Mycological Society of America, July 17-20, 2004) (Poster)

(15) Summy, K.R., **Little, C.R.***, Mazariegos, R.A., and Everitt, J. "Detecting stress in glasshouse plants using color IR imagery: a potential new application of remote sensing." (58th Annual Meeting of the Rio Grande Valley Horticultural Society, January 20, 2004) (Seminar)

(14) Bruce, J.*, **Little, C.R.**, and Summy, K.R. "Changes in spectral reflectance of cucumber (*Cucumis sativus*) and bean (*Phaseolus vulgaris*) seedlings in response to stress caused by abiotic and biotic factors" (58th Annual Meeting of the Rio Grande Valley Horticultural Society, January 20, 2004) (Poster)

(13) Salazar, D.*, Mazariegos, R.A., **Little, C.R.**, Everitt, J., and Summy, K.R. "Using multispectral imagery to determine representative spectral values in agricultural research" (2004 Texas Academy of Sciences Annual Meeting, March 5-6, 2004) (Seminar)

(12) Buentello, O.*, **Little, C.R.**, and Ibrahim, A. "Microspectroscopic investigation of hypersensitive responses to the bacterial pathogen *Pseudomonas syringae* pv. *phaseolicola* in *Phaseolus vulgaris*." (American Chemical Society, South Texas Section, Second Research Symposium, March 2004). (Poster)

(11) **Little, C.R.***, and Magill, C.W. "Elicitation of defense response genes in *Sorghum bicolor* (L.) Moench in response to infection by *Fusarium thapsinum* and *Curvularia lunata*." (Pan American Plant Disease Conference, April 2003) (Poster)

(10) **Little, C.R.***, Kuang, A., Mazariegos, R.A., and Summy, K.R. "Development of remote sensing techniques for detection of plant stress caused by pathogens and other factors under glasshouse conditions." (Pan American Plant Disease Conference, April 2003) (Poster)

(9) **Little, C.R.***, and Magill, C.W. "Elicitation of defense response genes in *Sorghum bicolor* (L.) Moench in response to infection by *Fusarium thapsinum* and *Curvularia lunata*." (Sorghum Improvement Conference of North America, February 2003) (Poster)

(8) **Little, C.R.*** "Defense responses of *Sorghum bicolor* to *Fusarium thapsinum* and *Curvularia lunata* infection at anthesis." (Department of Biology, UTPA, April 2002) (Invited Seminar)

(7) **Little, C.R.*** "Sorghum grain mold: responses to fungal infection at anthesis." (Department of Plant Pathology and Microbiology, Texas A&M University, October 2001) (Defense Seminar)

(6) Bandyopadhyay, R.*, and **Little, C.R.*** "Grain Mold" (Global 2000: International Sorghum and Millets Diseases III, Guanajuato, Mexico; September 2000) (Invited Seminar)

- (5) **Little, C.R.*** "Plant responses to early infection events during sorghum grain mold interactions." (Consultative Group Meeting on Technical and Institutional Options for Grain Mold Management, International Crops Research Institute for the Semi-Arid Tropics, Hyderabad, India; May 2000) (Invited Seminar Speaker)
- (4) **Little, C.R.***, and Magill, C.W. "Elucidating sorghum defense responses to grain mold fungi in *Sorghum bicolor*." (Plant and Animal Genome VIII, January 2000) (Poster)
- (3) **Little, C.R.*** "Defense response genes and grain mold resistance in *Sorghum bicolor* (L.) Moench." (Grass Genome Meeting, Norman Borlaug Crop Biotechnology Center, Texas A&M University, January 1999) (Seminar)
- (2) **Little, C.R.*** "Grain mold and sorghum defense responses." (Program for the Biology of Filamentous Fungi, Texas A&M University; August 1998) (Seminar)
- (1) **Little, C.R.***, El Haz, N., and Clark, J.D. "Biosystematics and morphological characteristics in the *Didymium squamulosum* complex." (Howard Hughes Undergraduate Initiative Research Fair, University of Kentucky; May 1996) (Poster)

Primary Teaching Activities

Department of Plant Pathology, Kansas State University

PLPTH 845	Plant Pathogenic Fungi (3 cr.)	Even fall semesters (2016 to present)
PLPTH 500	Principles of Plant Pathology (3 cr.)	Spring semesters (2009 to 2017)
PLPTH 870	Graduate Student Seminar (1 cr.)	Fall 2008, Spring 2009

Department of Biology, The University of Texas - Pan American (2002 to 2007)

BIOL 1401/1402	General Biology I & II	BIOL 4408/5408	Plant Pathology
BIOL 3302	Biological Writing	BIOL 6308	Plant-Microbe Interactions
BIOL 4100	Undergrad. Seminar	BIOL 6365	Graduate Research
BIOL 4201/4202	Undergrad. Research	BIOL 7300/7301	Graduate Thesis
BIOL 4406/5406	Mycology		

Other Teaching Activities

Guest Lecturer, Department of Plant Pathology, Kansas State University

- PLPTH 585 Crop Diseases (Fall semesters 2007 to 2015)
- PLPTH 750 Special Topics - Plant Diseases in the Field (Summer 2010)

Guest Lecturer, Department of Biology, The University of Texas - Pan American (UTPA)

- BIOL 3401 General Microbiology
- BIOL 4404/5404 Virology/Advanced Virology
- BIOL 4417/5417 Bacterial Genetics

UTPA Upward Bound Math and Science

- Biology portion of summer program (June 2004 to 2006)

Department of Plant Pathology and Microbiology, Texas A&M University

- PLPA 303 Plant Pathology Laboratory (Fall and Spring 1996 to 1998)
- PLPA 626 Diagnosis of Plant Diseases (Summer 1999)
- PLPA 625 Plant Pathogenic Fungi (Fall 2000)

T.H. Morgan School of Biological Sciences, University of Kentucky

- BIO 573 Mycology (Laboratory)

Teaching Awards

- (1) National Association of Teachers and Colleges of Agriculture, Graduate Student Teaching Award (May 2001)
 - (2) Texas A&M University Association of Former Students, Distinguished Graduate Student Teaching Award (April 1999)
-

Graduate Student Mentoring (from most recent defense date)

- (9) Nathan Smith (M.S.), Kansas State University, 2020 to present; Stalk lodging in sorghum
 - (8) Afsana Noor (Ph.D.), Kansas State University, 2017 to present; *Macrophomina* in soybean and sorghum. (expected graduation date 12/2022)
 - (7) Ananda Bandara (Ph.D.), Kansas State University, 2012 to 2017 (Ph.D. committee chair); Dissertation topic: "Impacts of stalk rots on sorghum yield, physiology, and elucidation of the molecular basis of stalk rot resistance." (*Defense*: 07/2017; *Dissertation*: <https://krex.k-state.edu/dspace/handle/2097/36379>)
 - (6) Rodrigo Pedrozo (Ph.D.), Kansas State University, 2011 to 2017 (Ph.D. committee chair); Dissertation topic: "Characterization of soybean seedborne *Fusarium* spp. in the state of Kansas, U.S.A." (*Defense*: 05/2017; *Dissertation*: <https://krex.k-state.edu/dspace/handle/2097/35737>)
 - (5) Vuyiswa Bushula (Ph.D.), Kansas State University, 2010 to 2016 (Ph.D. committee chair); Dissertation title: "Genetic diversity and pathogenicity of sorghum-associated *Fusarium* species." (*Defense*: 06/2016; *Dissertation*: <http://krex.k-state.edu/dspace/handle/2097/35196>)
 - (4) David R. Cruz Jimenez (M.S.), Kansas State University, 2008 to 2011 (M.S. committee chair); Thesis title: "Influence of soils, nutrition, and water relations upon charcoal rot disease processes in Kansas." (*Defense*: 05/2011; *Thesis*: <http://krex.k-state.edu/dspace/handle/2097/10747>)
 - (3) Shima Chaudhary (M.S.), University of Texas - Pan American, 2006 to 2009 (M.S. committee chair, ex-officio); *Thesis*: "Using remote sensing to evaluate the efficacy of inoculative biocontrol." (*Defense*: 09/2008)
 - (2) Atenea Garza (M.S.), University of Texas - Pan American, 2005 to 2007 (M.S. committee co-chair); *Thesis*: "Pathogen inhibitory activity of indigenous *Streptomyces* from Lower Rio Grande Valley agricultural soils." (*Defense*: 05/2007)
 - (1) Lorena Bush (M.S.), University of Texas - Pan American, 2004 to 2006 (M.S. committee chair) (non-thesis) (*Defense*: 05/2006)
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Visiting Scientists (from most recent)

- (2) Sanjana Reddy (Senior Scientist, Directorate of Sorghum Research, Hyderabad, India) (National Agricultural Innovation Project fellowship, ICAR) (08/2013 to 11/2013)
 - (1) Dennis R. Taylor (Sierra Leone Agricultural Research Institute) (International Atomic Energy Agency fellowship) (08/2009)
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Outside Chairperson for Doctoral Examinations, KSU, Graduate School (from most recent)

- (2) Suhao Han, Division of Biological Sciences, KSU (Fall 2012)
 - (1) Raymond Mutava, Department of Agronomy, KSU (Spring 2012)
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UNDERGRADUATE STUDENT MENTORING

Kansas State University

Eric Acosta (2015)
Chad Brady (2009)
Danielle Butler (2008 to 2009)
Joe Fenoglio (2013 to 2016)
Seth Filbert (2013 to 2015)
Morgan Halderson (2012 to 2014)
Caitlyn Horton (Fall 2014)
Breanna Korus (2015 to 2016)
Jason Leftwich (2018)
Daphne Lofing (2018 to 2019)
Macy Flory (2019 to 2020)

Zachary Louk (2013 to 2014)
Mackenzie Mortimer (2013 to 2014)
Jesse Murray (2016 to 2017)
Cori Ostrander (2017 to 2019)
Stacey Pugh (2010)
Erin Sudlow (2010)
William Thoele (2018 to 2019)
Jenny Whitehair (2013 to 2016)
Huiru Zhou (2014 to 2015)
Kenny Dodson (2019 to 2021)
Casinda Smith (2019 to 2021)

The University of Texas - Pan American

Ismael Rodriquez* (2006 to 2007)
Valeska Hernandez (2006)
Andugula Jayanth (Fall 2005)
Rowena Hamlet (2005-2006)
Jose Medrano (Spring 2004)
Juan Cano (2002 to 2003)
Jessica Garcia (Fall 2002)

Hildi Loria* (2006 to 2007)
Ovidio Hernandez (2006)
Blanca Herrera (Fall 2002)
Jose Perez (2004 to 2005)
Saulina Orizaga (Spring 2004)
Lillian Emerson (Summer II 2003)
Amy Gutierrez (Spring 2003)

*HHMI = HOWARD HUGHES MEDICAL INSTITUTE UNDERGRADUATE RESEARCH INITIATIVE

Texas A&M University

Rebecca Getachew (Fall 2001)
Emerson Cabuto (Summer 2000)

Mona Shokrollahi (Spring 2001)
Desiree Ritenour (Spring 1999)

ACADEMIC ACTIVITIES

Kansas State University (2007 to present) (Committees/Duties)

Department of Plant Pathology

Plant Pathology Instructor Search Committee, member (2017); chair (2020)
Tillman Award Selection Committee, member (2013 to 2017; 2020); chair (2018 to 2019)
Molecular plant-microbe interactions faculty search committee, member (2015 to 2016)
Business Manager Search Committee, member (2014)
Teaching Lab Renovation and Equipment Committee, chair (2012 to 2015)
Undergraduate Assessment Coordinator, chair (2011 to 2017)
Plant Pathology Minor Coordinator (2009 to 2017)
Curriculum Committee, member (2009 to 2016)
Graduate Student Selection Committee, member (2007 to 2019)
Teaching Retreat Committee, member (2007)
Adhoc Faculty Recruitment Strategic Planning Subcommittee, chair (2018 to present)
Adhoc Space Allocation Subcommittee (2018)

College of Agriculture & Interdepartmental

College Assessment Review Committee, member (2011 to present)
Undergraduate Programs Sub-committee for COA-KSRE Strategic Planning (2013)
Sorghum Geneticist Search Committee (Agronomy), member (2012 to 2013)

Sorghum Breeder Search Committee (Agronomy), member (2007 to 2008)

University-wide

Faculty Senate, University Handbook & Policy subcommittee (2022 to present)

Faculty Senate, College of Agriculture Representative (2020 to present)

Faculty Senate, Faculty Affairs subcommittee (2020 to present)

Kirmser Research Award Committee, K-State Libraries (2015 to 2018)

The University of Texas - Pan American (2002 to 2007) (Committees/Duties)

Department of Biology

Strategic Planning and Program Review Committee, chair (2004 to 2007)

Curriculum Committee, member (2002 to 2007)

Graduate Committee, member (2003 to 2007)

Indirect Costs/Incidental Fee Committee, member (2002 to 2007)

Space Committee, member (2002 to 2007)

Publicity Committee, member (2002 to 2007)

Faculty Search Committee, member (2004 to 2007)

Student Learning Outcomes Committee, member (2006 to 2007)

College of Science and Engineering

College Council, member (2005 to 2006), co-chair (2006 to 2007)

Physics/Geology Chairman Search Committee, external member (2006)

COS&E Outstanding Faculty Awards Committee, member (2003)

University-wide

Institutional Biosafety Committee, member (2002 to 2004)

Louis Stokes Alliance for Minority Participation (LSAMP) Scholarship Selection Committee, chair (2003)

Faculty Advisor, UTPA Campus LaFe Intersity Christian Fellowship

Faculty Advisor, UTPA Mac Users Group

Texas A&M University (1996 to 2002) (Committees/Duties)

Department of Plant Pathology and Microbiology

Graduate Programs Committee, member

Undergraduate Programs Committee, member

University-wide

Sterling C. Evans Library, Library Fines Appeals Committee, member

Graduate Student Council, Department of Plant Pathology & Microbiology Representative

USDA-sponsored Crop Research Committees

W-4147 Research Committee ("Managing Plant Microbe Interactions in Soil to Promote Sustainable Agriculture")

Sorghum and Millet Crop Germplasm Committee (GRIN, NPGS; 2015 to present)

NCERA-212 (previously NCERA-137) Soybean Diseases Committee (2008 to present)

Member of Journal Editorial Boards

Special Topics Editor for *Pathogens* (MDPI) (2021 to present)

Editor-in-Chief for *Plant Health Instructor* (American Phytopathological Society) (2018 to 2020)

Senior Editor for *Plant Health Instructor* (American Phytopathological Society) (2014 to 2017)

Member of Organizational Committees for Scientific Meetings (from most recent)

- (8) Sorghum Improvement Conferences of North America: Dallas, Texas (March 29-30, 2022), virtual (March 23-25, 2020), and St. Louis, Missouri (January, 29-31, 2018).
- (7) North Central Division meeting of the American Phytopathological Society (June 12-14, 2013), Kansas State University, Manhattan, Kansas
- (6) Sorghum Improvement Conference of North America (September 12-14, 2011), Oklahoma State University, Stillwater, Oklahoma.
- (5) Sorghum Improvement Conference of North America (August 11-12, 2010), University of Nebraska - Lincoln, Mead, Nebraska.
- (4) Sorghum Improvement Conference of North America Conference (August 10-12, 2009), Texas AgriLife Experiment Station, Amarillo, Texas.
- (3) Rio Grande Valley Horticultural Society, 61st Annual Institute (January 30, 2007), The University of Texas - Pan American, Edinburg, Texas.
- (2) Texas Academy of Science, 108th Annual Meeting (March 3-5, 2005), The University of Texas - Pan American, Edinburg, Texas.
- (1) Sorghum and Millets Diseases III (September 17-22, 2000), Guanajuato, Mexico.

Professional Memberships and Professional Service

American Phytopathological Society - member (2002 to present);

APS Education Center - Editor-in-Chief (2018 to present); Senior Editor (2013 to 2018)

APS Teaching Committee - Immediate Past Chair (2010 to 2011), Chair (2009 to 2010), Vice-Chair (2008 to 2009)

Sorghum Improvement Conference of North America - member (2007 to present)

Section Chair for Plant Pathology (2009 to 2011; 2017 to present)

Kansas Academy of Science (2009 to present)

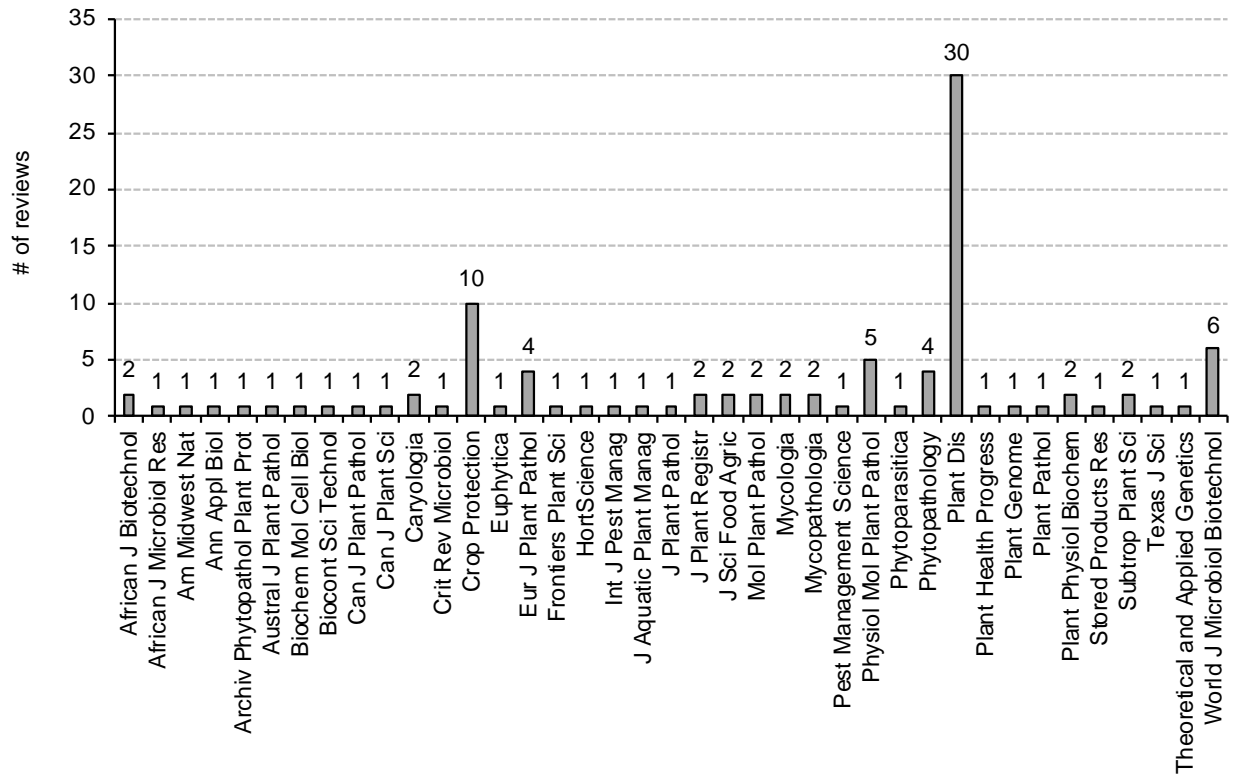
Kansas Native Plant Society (2009 to present)

Texas Academy of Science (2004 to 2007)

Subtropical Plant Science Society/Rio Grande Valley Horticultural Society (2002 to 2009)

Peer Reviews

Journal manuscripts (2005 to 2019):



Textbook reviews:

Hillis et al. *Life: Concepts* (1st Ed.)

Raven *Biology* (8th Ed.)

Freeman *Biological Science* (3rd Ed.)