**FULYA BAYSAL-GUREL**

**ASSISTANT PROFESSOR**

Tennessee State University

College of Agriculture

Department of Agriculture and Environmental Science

Otis L. Floyd Nursery Research Center

472 Cadillac Lane, McMinnville, TN 37110

Office: 931-815-5143

Fax: 931-668-3134

[fbaysalg@tnstate.edu](mailto:fbaysalg@tnstate.edu)

**EDUCATION**

**2003 Ph.D.** in Plant Pathology,Cukurova University, Turkey

**1997** **M.S.** in Plant Pathology,Cukurova University, Turkey

**1994 Teaching Certificate** in Pedagogical formation, Cukurova University, Turkey

**1994** **B.S.** in Plant Protection, Cukurova University, Turkey

**PROFESSIONAL RESEARCH POSITIONS**

**June 2015 - present** **Assistant Professor.** Tennessee State University (TSU).Otis L. Floyd Nursery Research Center, McMinnville, TN. (90% Research/10% Service)

**March 2015 – May 2015 Research Scientist.** The Ohio State University (OSU).Department of Plant Pathology, OARDC, Wooster, OH.

**2011 – 2015 Research Associate II.** The Ohio State University.Department of Plant Pathology, OARDC, Wooster, OH.

**2008 – 2011 Postdoctoral Researcher.** The Ohio State University.Department of Plant Pathology, OARDC, Wooster, OH.

**2005 – 2008 Visiting Scientist.** The Ohio State University.Department of Plant Pathology, OARDC, Wooster, OH.

**2003 – 2008 Research Scientist.** Cukurova University.Department of Plant Protection, Adana, Turkey.

**1997 – 2003** **Research Associate.** Cukurova University.Subtropical Fruits Research and Experimental Center, Adana, Turkey.

**1994 – 1997 Cukurova University Presidential Fellow.** Cukurova University. Adana, Turkey.

**HONORS AND AWARDS**

2020 Expanding the Network of STEM Women of Color 2020 Virtual Writing Group Scholarship

2017 TSU/College of Agriculture Outstanding Early Career Award

2014 TheOSU/ The Office of Outreach and Engagement Travel Award

2013 The APS Office of International Programs Global Experience Award

2008 **–** 2014 The OSU/OARDC Professional Growth Scholarship

2004 Sustainable Strategies in Plant Protection Focusing on the Security of Agricultural Products Pre-15th IPPC Workshop Travel Award, Beijing, China

1994-1997 Cukurova University Presidential Fellow

1994 B.S. with Honors in Plant Protection, Cukurova University

# **RESEARCH**

# **Refereed Publications**

**2020**

**Baysal-Gurel, F.,** Bika, R., Jennings, C., Palmer, C., and Simmons, T. 2020. Comparative performance of chemical and biologically-based products in management of algal leaf spot on magnolia. HortTechnology. <https://doi.org/10.21273/HORTTECH04692-20>. (**Baysal-Gurel-corresponding author**).

Bika, R., Palmer, C., Alexander, L., and **Baysal-Gurel, F.** 2020. Comparative performance of reduced-risk fungicides and biorational products in management of post-harvest *Botrytis cinerea* on hydrangea cut flowers.HortTechnology. https://doi.org/10.21273/HORTTECH04656-20. (**Baysal-Gurel-corresponding author**).

Panth, M., **Baysal-Gurel, F.,** Avin, F., and Simmons, T. 2020. Identification, chemical and biological management of *Phytopythium vexans*, the causal agent of Phytopythium root and crown rot of woody ornamentals. Plant Disease. https://doi.org/10.1094/PDIS-05-20-0987-RE. (**Baysal-Gurel-corresponding author**).

Brown, M.S., Addesso, K.M., **Baysal-Gurel, F.**, Youssef, N.N., and Oliver, J.B. 2020. Permethrin residual activity against ambrosia beetle (Coleoptera: Curculionidae: Scolytinae) attacks following field aging and simulated weathering. Journal of Economic Entomology. 1-9. doi: 10.1093/jee/toaa186.

Bika, R., **Baysal-Gurel, F.**, and Jennings, C. 2020. *Botrytis cinerea* management in ornamental production: A continuous battle. Canadian Journal of Plant Pathology. <https://doi.org/10.1080/07060661.2020.1807409> (**Baysal-Gurel-corresponding author**).

**Baysal-Gurel, F.,** Simmons, T., F., Avin, F.A., Bika, R., and Jennings, C. 2020. First report of powdery mildew on Physocarpus opulifolius caused by Podosphaera physocarpi in Tennessee. Plant Disease. https://doi.org/10.1094/PDIS-06-20-1286-PDN (**Baysal-Gurel-corresponding author**).

**Baysal-Gurel, F.,** Liyanapathiranage, P., Panth, M., Avin, F.A., and Simmons, T. 2020. First report of *Phytopythium vexans* causing root and crown rot on flowering cherry in Tennessee. Plant Disease. https://doi.org/10.1094/PDIS-06-20-1166-PDN (**Baysal-Gurel-corresponding author**).

Panth, M., **Baysal-Gurel, F.**, Simmons, T., Addesso, K., and Witcher, A. 2020. Impact of winter cover crop usage in soilborne disease suppressiveness in woody ornamental production system. Agronomy 10(7), 995; https://doi.org/10.3390/agronomy10070995 (**Baysal-Gurel-corresponding author**).

Castroagudín, V. L., Weiland, J. E., **Baysal-Gurel, F.**, Cubeta, M. A., Daughtrey, M., Gauthier, N. W., LaMondia, J., Luster, D. G., Hand, F. P., Shishkoff, N., Williams-Woodward, J., Yang, X., LeBlanc, N., and Crouch, J. A. 2020. One clonal lineage of *Calonectria pseudonaviculata* is primarily responsible for the boxwood blight epidemic in the United States. Phytopathology. https://doi.org/10.1094/PHYTO-04-20-0130-R.

Hudson, O., Walilullah, S. Hand, J. Gazis-Seregina, R., **Baysal-Gurel, F.**, and Ali, E. 2020. Novel method for detection of *Phytophthora capsici* in irrigation water using loop-mediated isothermal amplification. J. Vis. Exp., e61478, doi:10.3791/61478.

**Baysal-Gurel, F.,** Avin, F.A., Oksel, C., and Simmons, T. 2020. First report of stem canker of goldenrain tree caused by *Lasiodiplodia theobromae*in Tennessee. Plant Disease. https://doi.org/10.1094/PDIS-05-20-0963-PDN. (**Baysal-Gurel-corresponding author**).

Oksel, C., Avin, F., Simmons, T. and **Baysal-Gurel, F. 2020.** First report of bacterial leaf spot caused by *Xanthomonas arboricola* infecting saucer magnolia in Tennessee. Plant Disease. https://doi.org/10.1094/PDIS-03-20-0671-PDN. (**Baysal-Gurel-corresponding author**).

Farinas, C., Jourdan, P.S., Paul, P.A., Slot, J.C., Daughtrey, M.L., Devi Ganeshan, V., **Baysal-Gurel, F.,** Peduto Hand, F. 2020. *Phlox* species show quantitative and qualitative resistance to a population of powdery mildew isolates from the eastern United States. Phytopathology. https://doi.org/10.1094/PHYTO-12-19-0473-R

**Baysal-Gurel, F.,** Farinas, C., Peduto Hand, F., Avin, F.A. 2020. First report of powdery mildew of *Phlox* caused by *Golovinomyces magnicellulatus* in Tennessee. Plant Disease. https://doi.org/10.1094/PDIS-11-19-2498-PDN. (**Baysal-Gurel-corresponding author**).

Panth, M., Hassler, S., and **Baysal-Gurel, F.** 2020. Methods for management of soilborne diseases in crop production. Agriculture. Agriculture *10(*1), 16; https://doi.org/10.3390/agriculture10010016. (**Baysal-Gurel corresponding author**).

**2019**

Tekin, N.T., Kaplanoglu, E., Erdemir, E., **Baysal-Gurel, F.,** Uyanik, C., and Hargrove, S. K. 2020. Modeling and testing of magnetic speed controlled submersible robot for hydroponic production. IEEE pp. 1-4. DOI:10.1109/SoutheastCon42311.2019.9020356.

Dawadi, S., **Baysal-Gurel, F.,** Addesso, K.M., Oliver, J.B., and Simmons, T. 2019. Impact of cover crop usage on soilborne diseases in field nursery production. Agronomy Vol:9, 753. DOI:10.3390/agronomy9110753 (**Baysal-Gurel-corresponding author**).

Hassler, S., and **Baysal-Gurel, F.** 2019. Unmanned aircraft system (UAS) technology and applications in agriculture. Agronomy. Agronomy2019, Vol: 9, 618. DOI: 10.3390/agronomy9100618 (**Baysal-Gurel-corresponding author**) (It was selected as cover story and cover picture for this volume).

Witcher, A., **Baysal-Gurel, F.**, Blythe, E. K. and Fare, D. C. 2019. Container size and shade duration affect growth of flowering dogwood. HortTechnology. DOI: 10.21273/HORTTECH04392-19, Page 1-12.

Alexander, L., Witcher, A., and **Baysal-Gurel, F.** 2019. Growth, flowering, and powdery mildew related responses of witchhazels in Tennessee. HortTechnology. DOI:10.21273/HORTTECH04349-19, Vol 29: Issue 4 Page 507-515 **(Baysal-Gurel-corresponding author).**

**Baysal-Gurel, F.** and Kabir, Md N. 2019. Evaluation of fungicides and biocontrol products for the control of Phytophthora root rot of hydrangeas.Archives of Phytopathology and Plant Protection, DOI: 10.1080/03235408.2019.1648023 Page 1-16 **(Baysal-Gurel-corresponding author)**.

Brown, M., **Baysal-Gurel, F.,** Oliver, J., and Addesso, K. 2019. Evaluation of fungicides and biofungicide to control Phytophthora root rot (*Phytophthora cinnamomi* Rands) and ambrosia beetles (Coleoptera: Curculionidae: Scolytinae) on flowering dogwoods exposed to simulated flood events. Crop Protection. Vol: 124 104834, Page 1-8. DOI: 10.1016/j.cropro.2019.05.028 **(Baysal-Gurel-corresponding author)**

**Baysal-Gurel, F.**, Liyanapathiranage, P., Addesso, K. 2019. Effect of *Brassica* crop-based biofumigation on soilborne disease suppression in woody ornamentals. The Canadian Journal of Plant Pathology. DOI: 10.1080/07060661.2019.1625444 **(Baysal-Gurel-corresponding author)**.

**Baysal-Gurel, F.**, Kabir, N., Liyanapathiranage, P. 2019. Effect of organic inputs and solarization for the suppression of *Rhizoctonia solani* in woody ornamental plant production. Plants 2019, 8(5),138; <https://doi.org/10.3390/plants8050138>

**(Baysal-Gurel-corresponding author)**.

**Baysal-Gurel, F.**, Liyanapathiranage, P. 2019. Pathogenicity of *Rhizoctonia solani* and *Phytophthora nicotianae* to Brassicaceae cover crops. Archives of Phytopathology and Plant Protection. Page: 1-15. DOI: 10.1080/03235408.2019.1617499 **(Baysal-Gurel-corresponding author)**.

Brown, M., **Baysal-Gurel, F.,** Oliver, J., and Addesso, K. 2019. Comparative performance of fungicides, biofungicides, and host plant defense inducers in suppression of Phytophthora root rot in flowering dogwood during simulated root flooding events. Plant Disease. 103:1703-1711. <https://doi.org/10.1094/PDIS-09-18-1597-RE> **(Baysal-Gurel-corresponding author)**.

Pandey, M., Addesso, K. M., Archer, R. S., Valles, S. M., **Baysal-Gurel, F.**, Ganter, P. F., Youssef, N. N., and Oliver, J. B. 2019. Worker size, geographical distribution, and introgressive hybridization of the invasive *Solenopsis* *invicta* and *Solenopsis richteri* (Hymenoptera: Formicidae) in Tennessee. Environmental Entomology. Page: 1-6. doi: 10.1093/ee/nvz023.

**2018**

**Baysal-Gurel, F.**, Liyanapathiranage, P., Mullican, J. 2018. Biofumigation: opportunities and challenges for control of soilborne diseases in nursery production. Plant Health Progress. 19:332-337. [https://doi.org/10.1094/PHP-08-18-0049-RV P. 332-337](https://doi.org/10.1094/PHP-08-18-0049-RV%20P.%20332-337) **(Baysal-Gurel-corresponding author)**.

**Baysal-Gurel, F.**, Kabir, N. 2018. Comparative performance of fungicides and biocontrol products in suppression of Rhizoctonia root rot in viburnum. Journal of Plant Pathology and Microbiology Vol:9 Issue:9 DOI: 10.4172/2157-7471.1000451 **(Baysal-Gurel-corresponding author)**.

Addesso, K., **Baysal-Gurel, F.**, Oliver, J., Ranger, C., O’Neal, P. 2018. Interaction of a preventative fungicide treatment and root rot pathogen on ambrosia beetle attacks during a simulated flood event. Insects 2018, 9, 83; doi:10.3390/insects9030083.

Mirik, M., Aysan, Y., and **Baysal-Gurel, F.** 2018. Bacterial spot and blight diseases of ornamental plants caused by different *Xanthomonas* species in Turkey. Plant Protection Science. P. 1-8. https://doi.org/10.17221/10/2017-PPS **(Baysal-Gurel-corresponding author).**

**2016**

**Baysal-Gurel, F.,** Simmons, T., Kabir, N., Liyanapathiranage, P. 2016. First report of bacterial leaf spot caused by *Xanthomonas axonopodis* infecting fragrant sumac in Tennessee. Plant Disease 100(9) DOI:10.1094/PDIS-02-16-0195-PDN **(Baysal-Gurel-corresponding author)**.

**2015**

Yasuhara-Bell, J., **Baysal-Gurel, F.**, Miller, S.A., Alvarez, A., 2015. Utility of a loop-mediated amplification assay for detection of *Clavibacter michiganensis* subsp. *michiganensis* in seeds and plant tissues. Canadian Journal of Plant Pathology. Published online: 04 Jun 2015 DOI:10.1080/07060661.2015.1053988.

**Baysal-Gurel, F.** and Cinar, A. 2015. First report of taro leaf blight caused by *Phytophthora colocasiae* infecting taro in Turkey. Plant Disease. Vol. 99, No. 10, P. 1445. http://dx.doi.org/10.1094/PDIS-12-14-1311-PDN **(Baysal-Gurel-corresponding author)**.

Testen, A.L., **Baysal-Gurel, F.**, Mamiro, D.P., Miller, S.A. 2015. First report of tomato big bud caused by a 16SrII-C phytoplasma in Tanzania. Plant Disease. Vol. 99, No. 12, P. 1854. http://dx.doi.org/10.1094/PDIS-05-15-0510-PDN.

Li, R., **Baysal-Gurel, F.,** Abdo, Z., Miller, S.A., Ling, K., 2015. Evaluation of disinfectants to prevent mechanical transmission of viruses and a viroid in greenhouse tomatoes. *Virology Journal* 2015, 12:5. doi:10.1186/s12985-014-0237-5

Subedi, N., Testen, A.L., **Baysal-Gurel, F.,** Miller, S.A. 2015. First report of black leaf mold of tomato caused by *Pseudocercospora fuligena* in Ohio.Plant Disease. Vol. 99, No. 2, P. 285. http://dx.doi.org/10.1094/PDIS-06-14-0625-PDN

**Baysal-Gurel, F.,** Li, R., Ling, K., Miller, S.A. 2015.First report of Tomato chlorotic spot virus infecting tomatoes in Ohio. Plant Disease. Vol. 99, No. 1, P. 163. http://dx.doi.org/10.1094/PDIS-06-14-0639-PDN

**Baysal-Gurel, F.** and Cinar, A. 2015. First report of Fusarium root rot caused by *Fusarium oxysporum* infecting pigmented grapefruit trees in Turkey. Plant Disease. Vol. 99, No. 4, P. 553. http://dx.doi.org/10.1094/PDIS-07-14-0746-PDN **(Baysal-Gurel-corresponding author)**.

**Baysal-Gurel, F.,** Li, R., Ling, K., Kurowski, C., Miller, S.A. 2015. Developing hygiene protocols against mechanically transmitted pathogens in greenhouse tomato production systems. Acta Hort. (ISHS) No. 1069, P. 275-280. **(Baysal-Gurel-corresponding author)**.

**Baysal-Gurel, F.,** Miller, S.A. 2015. Management of powdery mildew in greenhouse tomato production with biorational products and fungicides. Acta Hort. (ISHS) No. 1069, P. 179-184. **(Baysal-Gurel-corresponding author)**.

Li, R., Ling, K., **Baysal-Gurel, F.,** Miller, S.A., Kurowski, C., 2015. Evaluation of disinfectants to control mechanical transmission of tomato viruses and viroids in greenhouse tomatoes. Acta Hort. (ISHS) No. 1069, P. 221-228.

Miller, S.A., Lewis Ivey, M., **Baysal-Gurel, F.**, Xu, X. 2015. A systems approach to tomato disease management. Acta Hort. (ISHS) No. 1069, P. 167-172.

**2014**

**Baysal-Gurel, F.** and Cinar, A. 2014. First report of Armillaria root rot caused by *Armillaria mellea* infecting *Carrizo citrange* and sour orange rootstocks in Turkey. Plant Disease. Vol. 98, No. 10, P. 1439. http://dx.doi.org/10.1094/PDIS-0?5-14-0463-PDN **(Baysal-Gurel-corresponding author)**.

**Baysal-Gurel, F.,** Subedi, N., Mamiro, D., Miller, S.A. 2014. First report of anthracnose of onion caused by *Colletotrichum coccodes* in Ohio. Plant Disease. 2014; Vol. 98, No. 9, P. 1271. http://dx.doi.org/10.1094/PDIS-01-14-0032-PDN

**Baysal-Gurel, F.,** Bledsoe, M., Miller, S.A. 2014. Post-harvest applications of disinfectants using a fog tunnel system to manage Botrytis gray mold in tomatoes. Acta Hort. (ISHS) No. 1053, P. 237-244. **(Baysal-Gurel-corresponding author)**.

Testen, A., Mamiro, D., Meulia, T., Subedi, N., Islam, M., **Baysal-Gurel, F.,** Miller, S.A. 2014. First report of Leek yellow stripe virus in garlic in Ohio. Plant Disease; Vol. 98, No. 4, P. 574. http://dx.doi.org/10.1094/PDIS-08-13-0851-PDN

**2013**

Xu, X., **Baysal-Gurel, F.,** Miller, S.A. 2013. First report of tomato pith necrosis caused by *Pseudomonas mediterranea* in the US and *P. corrugata* in Ohio. Plant Disease. 2013; Vol. 97, No.7, P. 988. http://dx.doi.org/10.1094/PDIS-12-12-1208-PDN

**2012**

**Baysal-Gurel, F.,** Bozan, O., Onelge, N., Cinar, A.2012.First report of Sclerotinia stem and twig blight caused by *Sclerotinia sclerotiorum* on sour orange rootstock in Turkey. New Disease Reports 26, 24. [http://dx.doi.org/10.5197/j.2044-0588.2012.026.024] **(Baysal-Gurel-corresponding author)**.

**Baysal-Gurel, F.,** Taylor, N.J., Chatfield, J., Miller, S.A. 2012. First report of downy mildew Caused by *Plasmopara obducens* on impatiens in Ohio. Plant Disease. 2012; Vol. 96, No. 11, P.  1,699.3. http://dx.doi.org/10.1094/PDIS-06-12-0545-PDN.

Rong X., **Baysal-Gurel, F.,** Meulia, T., B McSpadden Gardener, B. 2012. Draft genome sequences of the biocontrol bacterium *Mitsuaria* sp. strain H24L5A. J. Bacteriol.2012, 194(3):734. DOI: 10.1128/JB.06537-11.

Rong X., **Baysal-Gurel, F.,** Meulia, T., B McSpadden Gardener, B. 2012. Draft genome sequences of the *Pseudomonas fluorescens* biocontrol strains Wayne1R and Wood1R. J. Bacteriol.2012, 194(3):724. DOI: 10.1128/JB.06338-11.

**2011**

Westphal, A., Williams, M., **Baysal-Gurel, F.,** LeJeune, J., and B. McSpadden Gardener, B. 2011. Detection and identification of bacteria associated with the suppression of *Escherichia coli* O157:H7 in sand-based dairy livestock bedding. Appl. Env. Microbiol. p. 2113-2121, Vol. 77, No. 6.

**2010**

Xu, X., Miller, S. A., **Baysal-Gurel, F.**, Gartemann, K.H., Eichenlaub, R. and Rajashekara, G. 2010. Bioluminescent imaging of Clavibacter michiganensis subsp. michiganensis infection of tomato seeds and plants. Appl. Env. Microbiol.; 76:3978-3988.

**2009**

**Baysal-Gurel, F.,** Welty, C.,Miller, S.A. 2009. Comparison of IPM tactics in home vegetable gardens. Acta Hort. (ISHS) 808:133-136. **(Baysal-Gurel-corresponding author)**.

**Baysal-Gurel, F.,** and Miller, S.A. 2009. Effect of commercial biofumigant cover crops on growth, yield and disease of processing tomatoes. Acta Hort. (ISHS) 808:117-120. **(Baysal-Gurel-corresponding author)**.

**Baysal-Gurel, F.,** McSpadden-Gardener, B., Cardina, J., Kleinhenz, M., Miller, S.A. 2009. Effect of field management practices on disease development, soil chemistry and yield in organic tomatoes. Acta Hort. (ISHS) 808:113-116. **(Baysal-Gurel-corresponding author)**.

**2008**

**Baysal-Gurel, F.,** Ivey, M., Dorrance, A., Luster, D., Frederick, R., Czarnecki, J., Boehm, M., and Miller, S.A. 2008. An immunofluorescence assay to detect urediniospores of *Phakopsora pachyrhizi*. Plant Disease. Volume 92, Number10: 1387-1393.

**Baysal, F**., Benitez, M.S., Kleinhenz, M.D., Miller, S.A., McSpadden Gardener, B. 2008. Field management effects on damping-off and early season vigor of crops in a transitional organic cropping system. Phytopathology 98:562-570.

**2007**

Benítez, M.S., **Baysal, F.,** Rotenberg, D., Kleinhenz, M. D., Cardina, J., Stinner, D., Miller, S.A., and McSpadden Gardener, B. 2007. Linking changes in bacterial populations with disease suppression, as affected by agricultural management strategies. Soil Biology and Biochemistry 39: 2289-2301.

**2004**

**Baysal, F.,** Cinar, A. 2004. Determination of phytopathological and entomological problems and using plant protection methods in organic tomato growing in Turkey. Acta Hort. (ISHS) 729:459-462 **(Baysal-Gurel-corresponding author)**.

**Editor Reviewed Online Publications (last 4 years)**

**2020**

**Baysal-Gurel, F.**, Simmons, T, Jennings, C., Panth, M., and Bika, R. 2020. Evaluation of biorational products for the control of powdery mildew of dogwood, 2019. Plant Disease Management Report No. 14:OT008. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.**, Simmons, T, Jennings, C., Bika, R. and Panth, M. 2020. Evaluation of drench application of fungicides for the control of black spot of rose, 2019. Plant Disease Management Report No. 14:OT007. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.**, Simmons, T, Jennings, C., Panth, M., and Bika, R. 2020. Evaluation of foliar application of fungicides for the control of black spot of rose, 2019. Plant Disease Management Report No. 14:OT004. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.**, Simmons, T, Jennings, C., Bika, R. and Panth, M. 2020. Evaluation of experimental fungicides for the control of powdery mildew of dogwood, 2019. Plant Disease Management Report No. 14:OT003. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.**, Simmons, T, Jennings, C., Panth, M., and Bika, R. 2020. Evaluation of fungicides for the control of Cercospora leaf spot of crapemyrtle, 2019. Plant Disease Management Report No. 14:OT002. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.**, Simmons, T, Jennings, C., Bika, R. and Panth, M. 2020. Evaluation of biofungicides for the control of powdery mildew of dogwood, 2019. Plant Disease Management Report. Online publication No. 14:OT006. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.**, Simmons, T, Jennings, C., Bika, R. and Panth, M. 2020. Evaluation of fungicides for control of Cercospora leaf spot on Hydrangea, 2019. Plant Disease Management Report No. 14:OT001. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.**, Simmons, T, Jennings, C., Panth, M., and Bika, R. 2020. Evaluation of fungicides for the control of powdery mildew and spot anthracnose of dogwood, 2019. Plant Disease Management Report No. 14:OT005. Online publication. The American Phytopathological Society, St. Paul, MN.

**2019**

**Baysal-Gurel, F.,** Panth, M., and Simmons, T. 2019. Evaluation of fungicides alone and in rotation programs for the control of Phytophthora root rot of boxwood, 2018. Plant Disease Management Report No. 13:OT017. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Panth, M., Bika, R., and Simmons, T. 2019. Evaluation of fungicides alone and in rotation programs for the control of Phytophthora root rot of boxwood rooted cuttings, 2019.Plant Disease Management Report No. 13:OT018. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2019. Evaluation of products for the management of fireblight on container-grown flowering crabapples, 2018. Plant Disease Management Report No. 13:OT019. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2019. Evaluation of fungicides for the control of powdery mildew of Hydrangea, 2018. Plant Disease Management Report No. 13:OT004. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2019. Evaluation of fungicides for control of Cercospora leaf spot on Hydrangea, 2018. Plant Disease Management Report No. 13: OT003. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2019. Evaluation of fungicides for the control of black spot of rose, 2018. Plant Disease Management Report No. 13:OT002. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2019. Evaluation of fungicides at different application intervals for the control of powdery mildew of dogwood, 2018.Plant Disease Management Report No. 13:OT007. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2019. Evaluation of fungicides for the control of black spot of rose, 2018. Plant Disease Management Report No. 13:OT006. Online publication. The American Phytopathological Society, St. Paul, MN.

**2018**

**Baysal-Gurel, F.,** Simmons, T., and Kabir, Md N. 2018. Evaluation of biorational products and fungicides for the control of Phytophthora root rot of Hydrangea in field condition, 2017. Plant Disease Management Report No. 12:OT026. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., and Kabir, Md N. 2018. Evaluation of biorational products and fungicides for the control of Phytophthora root rot of hydrangea in greenhouse condition, 2017. Plant Disease Management Report No. 12:OT021. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., and Kabir, Md N. 2018. Evaluation of biorational products and fungicides for the control of Rhizoctonia root rot of viburnum in greenhouse condition, 2017. Plant Disease Management Report No. 12:OT020. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., and Kabir, Md N. 2018. Evaluation of biorational products and fungicides for the control of Rhizoctonia root rot of viburnum in field condition, 2017. Plant Disease Management Report No. 12:OT025. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2018. Evaluation of fungicides for the control of anthracnose of lupine, 2017. Plant Disease Management Report No. 12:OT007. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2018. Evaluation of fungicides for the control of Botrytis blight of annual vinca, 2017. Plant Disease Management Report No. 12:OT008. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Turner, M., and Fancher, A. 2018. Evaluation of fungicides for the control of Cercospora leaf spot of crapemyrtle, 2017. Plant Disease Management Report No. 12:OT002. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Turner, M., and Fancher, A. 2018. Evaluation of fungicides for control of Botrytis blight on detached hydrangea leaves, 2017. Plant Disease Management Report No. 12:OT010. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Fancher, A., and Turner, M. 2018. Evaluation of products for the management of fireblight on container-grown flowering crabapples, 2017. Plant Disease Management Report No. 12:OT001. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2018. Evaluation of experimental fungicides for the control of powdery mildew of dogwood, 2017. Plant Disease Management Report No. OT004. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2018. Evaluation of fungicide rotations at different application intervals for the control of powdery mildew of dogwood, 2017. Plant Disease Management Report No. OT005. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2018. Evaluation of fungicides for control of Cercospora leaf spot on Hydrangea, 2017. Plant Disease Management Report No. 12:OT006. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., and Kabir, Md N. 2018. Fungicidal control of Phytophthora aerial blight on annual vinca, 2017. Plant Disease Management Report No. 12:OT009. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2018. Evaluation of fungicides for the control of Phytophthora root rot of dogwood, 2017. Plant Disease Management Report No. 12:OT011. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** and Simmons, T. 2018. Evaluation of fungicide rotations at different application intervals for the control of powdery mildew of crapemyrtle, 2017. Plant Disease Management Report No. 12:OT003. Online publication. The American Phytopathological Society, St. Paul, MN.

**2017**

**Baysal-Gurel, F.,** Simmons, T. 2017. Evaluation of fungicides for control of Botrytis blight on hydrangea, 2016.Plant Disease Management Report No. 11:OT022. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Kabir, Md.N., Liyanapathiranage, P. 2017. Evaluation of fungicides for the control of powdery mildew of dogwood, 2016. Plant Disease Management Report No. 11:OT007. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Liyanapathiranage, P., Kabir, Md.N. 2017. Evaluation of fungicides for the control of black spot of rose, 2016. Plant Disease Management Report No. 11:OT005. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Kabir, Md.N., Liyanapathiranage, P. 2017. Evaluation of biorational products and fungicides for the control of Phytophthora root rot of Hydrangea, 2016. Plant Disease Management Report No. 11:OT004. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Liyanapathiranage, P., Kabir, Md.N. 2017. Evaluation of biorational products and fungicides for the control of Rhizoctonia root rot of viburnum, 2016. Plant Disease Management Report No. 11:OT003. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Liyanapathiranage, P., Kabir, Md.N. 2017. Evaluation of fungicides for the control of downy mildew of knockout roses, 2016. Plant Disease Management Report No. 11:OT006. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Kabir, Md.N., Liyanapathiranage, P. 2017. Evaluation of fungicides for the control of powdery mildew and spot anthracnose of dogwood, 2016. Plant Disease Management Report No. 11:OT014. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Kabir, Md.N., Liyanapathiranage, P. 2017. Evaluation of fungicides for the control of powdery mildew and spot anthracnose of dogwood, 2016. Plant Disease Management Report No. 11:OT015. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T., Liyanapathiranage, P., Kabir, Md.N. 2017. Evaluation of fungicides for the control of powdery mildew of crapemyrtle, 2016. Plant Disease Management Report No. 11:OT013. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T. 2017. Evaluation of fungicides and biorational products for control of Cercospora leaf spot on Hydrangea, 2016. Plant Disease Management Report No. 11:OT010. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T. 2017. Evaluation of fungicide rotations at different application intervals for the control of downy mildew of knockout roses, 2016. Plant Disease Management Report No. 11:OT012. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.,** Simmons, T. 2017. Evaluation of fungicide drench applications for the control of downy mildew of knockout roses, 2016. Plant Disease Management Report No. 11:OT011. Online publication. The American Phytopathological Society, St. Paul, MN.

**2016**

**Baysal-Gurel, F.** and Fare, D.C. 2016. Response of container-grown flowering dogwood cultivars to powdery mildew under a sun/shade production regime, 2015. Plant Disease Management Report No. 10:OT005. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F**., Liyanapathiranage, P., and Fare, D.C. 2016. Response of crapemyrtle varieties to Cercospora leaf spot, 2015.Plant Disease Management Report No. 10:OT006. Online publication. The American Phytopathological Society, St. Paul, MN.

**Baysal-Gurel, F.** and Fare, D.C. 2016.Response of yellow-flowering magnolia varieties to powdery mildew, 2015. Plant Disease Management Report No. 10:OT007. Online publication. The American Phytopathological Society, St. Paul, MN.

**CONFERENCE PROCEEDINGS (REFEREED) (last 4 years)**

**2020**

**Baysal-Gurel, F.**, Jennings, C., and Simmons, T. 2020. Evaluation of fungicides for the control of rose black spot caused by *Diplocarpon rosae*. SNA Research Conference Vol; 64 2020. Pathology and Nematology Section.

Ojha, V., Oliver, J., Addesso, K., **Baysal-Gurel, F.,** Youssef, N., and Simmons, T. 2020. Optimization of Phytophthora effective systemic fungicides for ambrosia beetle management. SNA Research Conference Vol; 64 2020. Entomology section.

Bika, R., Palmer, C., Simmons, T., and **Baysal-Gurel, F.** 2020. Comparative performance of fungicides and biorational products in managing *Botrytis cinerea* in hydrangea cut flower. SNA Research Conference Vol; 64 2020. Pathology and Nematology Section (2020 Bryson L. James Student Research Competition 1st place and R. Bika received the SNA Student Travel Grant)

Oksel, C., **Baysal-Gurel, F.**, and Mirik, M. 2020. Investigation of copper-resistant in *Pseudomonas syringae* pv. *syringae* strains from cherry. SNA Research Conference Vol; 64 2020. Pathology and Nematology Section (C. Oksel received the SNA Student Travel Grant).

Neupane, S., Simmons, T., and **Baysal-Gurel, F.** 2020. Management of Phytophthora root and crown rot using biofumigation on field grown boxwood.SNA Research Conference Vol; 64 2020. Pathology and Nematology Section (S. Neupane received the SNA Student Travel Grant).

Panth, M. and **Baysal-Gurel, F.** 2020. Impact of cover crop usage on soilborne disease suppressiveness in field nursery production. SNA Research Conference Vol; 64 2020. Pathology and Nematology Section (2020 Bryson L. James Student Research Competition 3rd place and M. Panth received the SNA Student Travel Grant).

**2019**

**Baysal-Gurel, F.** Brown, M.S., Oliver, J., Addesso, K. 2019. Evaluation of fungicides and biofungicide to control Phytophthora root rot and ambrosia beetles on flood-stressed flowering dogwoods. Ambrosia beetle working group meeting proceeding. October 15, 2019. Griffin, GA.

Oliver, J., Addesso, K., **Baysal-Gurel, F.**, Ojha, V., Brown, M., Youssef, N., O’Neal, P., Ranger, C., Reding, M., Bray, A., Schultz, P., Werle, C., Sampson, B., Saroli, J., Mafra-Neto, A. 2019. Ambrosia beetle ecology, pest status and management in tree ornamental systems. Ambrosia beetle working group meeting proceeding. October 15, 2019. Griffin, GA.

Oliver, J., Addesso, K., Fare, D., **Baysal-Gurel, F.**, Witcher, A., Youssef, N., Basham, J., Moore, B., O’Neal, P. 2019. Flatheaded appletree borer ecology and knowledge gaps. Flatheaded borer workshop proceedings. July 1-2, 2019. McMinnville, TN.

**Baysal-Gurel, F.,** and Simmons, T. 2019. Management of Cercospora Leaf Spot of Hydrangea with Fungicides and Biorational Products.SNA Research Conference Vol. 63 2019. Pathology and Nematology Section. Page 118-121.

**Baysal-Gurel, F.,** and Simmons, T. 2019. Evaluation of Fungicide Rotations at Different Application Intervals for the Control of Powdery Mildew of Dogwood. SNA Research Conference Vol. 63 2019. Pathology and Nematology Section. Page 122-124.

**2018**

Kabir, Md N., and **Baysal-Gurel, F.** 2018. Effect of fungicides and biorational products on *Phytophthora* root rot of hydrangea cultivars. SNA Research Conference Vol. 62 2018. Pathology and Nematology Section. Page 68-71. (Oral presentation PhD second place).

**Baysal-Gurel, F**., Alexander, L., Liyanapathiranage, P., and Kabir, Md N. 2018. Response of bigleaf hydrangea cultivars to powdery mildew disease. SNA Research Conference Vol. 62 2018. Pathology and Nematology Section. Page 52-55.

Brown, M., **Baysal-Gurel, F.,** Oliver, J., and Addesso, K. 2018. Evaluation of fungicides and biofungicides for control of *Phytophthora cinnamomi* on flood-stressed flowering dogwoods. SNA Research Conference Vol. 62 2018. Pathology and Nematology Section. Page 45-51. (Oral Presentation MS second place).

Fare, D.C., **Baysal-Gurel, F.,** Addesso, K., and Oliver, J., 2018. The Effects of Tree Shelters on Field Grown Maple Liners.SNA Research Conference Vol. 62 2018. Field Production Section. Page 18-24.

**2016**

**Baysal-Gurel, F**., Kabir, Md N., Liyanapathiranage, P., and Simmons, T. 2016. Evaluation of Fungicides and Biorational Products in Management of Powdery Mildew Disease of Dogwood. SNA Research Conference Vol. 61 2016. Pathology and Nematology Section. Page 131-132.

**Baysal-Gurel, F**., Liyanapathiranage, P., Kabir, Md N., and Simmons, T. 2016. Effect of Fungicides and Biorational Products on Powdery Mildew Disease of Hydrangea. SNA Research Conference Vol. 61 2016. Pathology and Nematology Section. Page 136-138.

**Baysal-Gurel, F**., and Fare, D.C. 2016. Response of Container-grown Flowering Dogwood Cultivars to Powdery Mildew Under Sun/Shade Production and Different Fertilizer Regimes. SNA Research Conference Vol. 61 2016. Pathology and Nematology Section. Page 141-147.

Fare, D.C. and **Baysal-Gurel, F.** 2016. Shade Periodicity Affects Growth of Container Grown Dogwoods. SNA Research Conference Vol. 61 2016. Container Grown Plant Production Section. Page 20-24.

**PUBLISHED ABSTRACTS** **(last 5 years)**

**2020**

Bika, R., **Baysal-Gurel, F.**, Simmons, T., Alexander, L. 2020. Fusarium oxysporumcausing post-harvest meltdown on Zinnia flowers. Plant Health 2020 online. August 10-14, 2020. (Poster presentation)

Castroagudin, V.L., Weiland, J., **Baysal-Gurel, F.**, Cubeta, M., Daughtrey, M., Ward-Gauthier, N., LaMondia, J., Luster, D., Hand, F.P., Shishkoff, N., Williams-Woodward, J., Yang, X., LeBlanc, N., Crouch, J.A. 2020. Genetic structure of contemporary populations of the boxwood blight pathogen in the U.S. Plant Health 2020 online. August 10-14, 2020. (Poster presentation)

Panth, M., Avin, F.A., Simmons, T., **Baysal-Gurel, F.** 2020. Identification and management of Phytopythium vexanson Acer rubrum. Plant Health 2020 online. August 10-14, 2020. (Poster presentation)

Panth, M., Simmons, T., Addesso, K., **Baysal-Gurel, F**. 2020. Impact of cover crop usage on soilborne disease suppressiveness in field nursery production. Plant Health 2020 online. August 10-14, 2020. (Poster presentation)

Bika, R., Copes, W., **Baysal-Gurel, F**. 2020. Sensitivity of *Botrytis cinerea*and *Calonectria pseudonaviculata* to different disinfectants. Plant Health 2020 online. August 10-14, 2020. (Poster presentation)

Klein, J., Wu, T., Delgado, J., Hand, F.P., **Baysal-Gurel, F.**, Hirsch, R., Friesen, T., Donofrio, N. 2020. The current status of plant-related outreach across the United States and what APS is doing to help. Plant Health 2020 online. August 10-14, 2020. (Poster presentation)

Hudson, O., Waliullah, S., Gazis, R., **Baysal-Gurel, F.,** Ali, E. 2020. Water contamination by Phytophthora capsici– advanced onsite diagnosis drives more profitable vegetable production. Plant Health 2020 online. August 10-14, 2020. (Poster presentation)

Bika, R., Alexander, L., Palmer, C., **Baysal-Gurel, F.** 2020. Efficacy of Fungicides and Biorational Product in Management of Botrytis Cinerea on Cut Flowers of Hydrangea Macrophylla. Virtual ASHS 2020. August 10-13, 2020. (Poster presentation)

Alexander, L., and **Baysal-Gurel, F.** 2020. Using AUDPC Scores for Disease Resistance Phenotyping of Hydrangea. Virtual ASHS 2020. August 10-13, 2020. (Oral presentation)

Ojha, V., Oliver, J., Addesso, K., **Baysal-Gurel, F.**, and Youssef, N. 2020. Evaluation of systemic fungicides for control of nursery-attacking ambrosia beetles. Joint Annual meeting of the Southeastern and Eastern Branches of the Entomological Society of America. March 29- April 1, 2020. Atlanta, GA. (Abstract submitted, but meeting postponed due to Covid-19) (Oral presentation)

Ojha, V., Oliver, J., Addesso, K., **Baysal-Gurel, F.,** Youssef, N., and Simmons, T. 2020. Management of Ambrosia Beetles with Systemic Fungicide in Woody Ornamentals. The 42nd Annual University-Wide Research Symposium, 2020. March 23-27, 2020. Nashville, TN. (Abstract submitted, but meeting postponed due to Covid-19) (Poster presentation)

Panth, M., Simmons, T., and **Baysal-Gurel, F.** 2020. Suppression of soilborne plant pathogens with cover crops in nursery production. The 42nd Annual University-Wide Research Symposium, 2020. March 23-27, 2020. Nashville, TN. (Abstract submitted, but meeting postponed due to Covid-19) (Oral presentation)

Neupane, S., Simmons, T., **Baysal-Gurel, F.** 2020. Management of Phytophthora root rot of boxwood using fungicides, biofungicides, fertilizers and host plant defense inducers. The 42nd Annual University-Wide Research Symposium, 2020. March 23-27, 2020. Nashville, TN. (Abstract submitted, but meeting postponed due to Covid-19) (Oral presentation)

**Baysal-Gurel, F.**, Jennings, C., and Simmons, T. 2020. Evaluation of drench application of fungicides for the control of black spot of rose. The 42nd Annual University-Wide Research Symposium, 2020. March 23-27, 2020. Nashville, TN. (Abstract submitted, but meeting postponed due to Covid-19) (Poster presentation)

Bika, R. Simmons, T., and **Baysal-Gurel, F.** 2020. Efficacy of different fungicides and biorational products in managing post-harvest *Botrytis cinerea* infection on hydrangea cut flowers. The 42nd Annual University-Wide Research Symposium, 2020. March 23-27, 2020. Nashville, TN. (Abstract submitted, but meeting postponed due to Covid-19) (Oral presentation)

**Baysal-Gurel, F.,** Simmons, T., Jennings, C., Panth, M., and Bika, R. 2020. Evaluation of biofungicides for the control of powdery mildew of dogwood. The 42nd Annual University-Wide Research Symposium, 2020. March 23-27, 2020. Nashville, TN. (Abstract submitted, but meeting postponed due to Covid-19) (Poster presentation)

Oksel, C., Mirik, M., Aysan, Y., and **Baysal-Gurel, F.** 2020. Antibacterial activity of plant extracts against *Xanthomonas campestris* pv. *campestris*. The 42nd Annual University-Wide Research Symposium, 2020. March 23-27, 2020. Nashville, TN. (Abstract submitted, but meeting postponed due to Covid-19) (Poster presentation)

Alexander, L., and **Baysal-Gurel, F.** 2020. Ploidy level influences powdery mildew disease severity in *Hydrangea macrophylla*. The 42nd Annual University-Wide Research Symposium, 2020. March 23-27, 2020. Nashville, TN. (Abstract submitted, but meeting postponed due to Covid-19) (Poster presentation)

**Baysal-Gurel, F.** and Alexander, L. 2020. Susceptibility of bigleaf hydrangea cultivars to *Erysiphe polygoni*. The 42nd Annual University-Wide Research Symposium, 2020. March 23-27, 2020. Nashville, TN. (Abstract submitted, but meeting postponed due to Covid-19) (Poster presentation)

Panth, M., Simmons, T., Avin, F., and **Baysal-Gurel, F.** 2020. Identification and management of *Phytopythium vexans* on *Ginkgo biloba*.97th Southern division APS meeting. Feb 9-12, 2020. Charleston, SC. (**Southern division APS meeting travel award- Oral presentation**).

Oksel, C., **Baysal-Gurel, F.,** and Mirik, M. 2020. Identification and biocontrol potential of antagonistic bacterial strains against *Pseudomonas syringae* pv. *tomato*. 97th Southern division APS meeting. Feb 9-12, 2020. Charleston, SC. (**Third place- Southern division APS meeting Poster competition**).

Bika, R., Palmer, C., and **Baysal-Gurel, F.** 2020. Comparative performance of fungicides and biorational products in managing post-harvest *Botrytis cinerea* infection on hydrangea cut flowers.97th Southern division APS meeting. Feb 9-12, 2020. Charleston, SC. (**Southern division APS meeting travel award and Honorarium- Oral competition**).

Neupane, S., Simmons, T., and **Baysal-Gurel, F.** 2020. Control of Phytophthora root rot of boxwood with chemical fungicides, biofungicides, fertilizers and host plant defense inducers in field production.97th Southern division APS meeting. Feb 9-12, 2020. Charleston, SC. (**First place- Southern division APS meeting Poster competition**).

**2019**

Bika, R., Simmons, T., **Baysal-Gurel, F.** 2019. Comparative performance of fungicides and biorational products in suppression of Botrytis blight in cut flower of hydrangea. 129th Tennessee Academy of Science meeting at Columbia State Community College, Columbia, TN. November 22, 2019 (**Second Place- Oral presentation**).

**Baysal-Gurel, F.**, Simmons, T., Neupane, S., Panth, M., Bika, R., Hassler, S., and Neupane, K. 2019. Efficacy of biofumigation with solarization for the control of Phytophthora root rot of boxwood. 129th Tennessee Academy of Science meeting at Columbia State Community College, Columbia, TN. November 22, 2019 (**Second Place- Poster presentation**).

Jennings, C., Simmons, T., and **Baysal-Gurel, F.** 2019. Evaluation of fungicides for the control of rose black spot caused by *Diplocarpon rosae*. 129th Tennessee Academy of Science meeting at Columbia State Community College, Columbia, TN. November 22, 2019 (**Third Place- Poster presentation**).

Panth, M., Simmons, T., Avin, F., and **Baysal-Gurel, F.** First report of *Phytopythium vexans* causing root and crown rot of ginkgo. 129th Tennessee Academy of Science meeting at Columbia State Community College, Columbia, TN. November 22, 2019 (**Third Place- Oral presentation**).

Oksel, C., **Baysal-Gurel, F.,** and Mirik, M. 2019. Identification of bacterial canker pathogens on sweet cherry trees in Marmara region of Turkey. 129th Tennessee Academy of Science meeting at Columbia State Community College, Columbia, TN. November 22, 2019 (Poster presentation).

Ojha, V., Oliver, J., Addesso, K., **Baysal-Gurel, F.,** Youssef, N., and Simmons, T. 2019. Evaluation of systemic fungicides for control of nursery-attacking ambrosia beetles. National Entomological Society of America Annual Meeting. St. Louis, MO. 17-20 November, 2019 (Poster presentation).

Deren, V., **Baysal-Gurel, F.**, and Addesso, K. 2019. Application of microbial pesticides change mite behavior. National Entomological Society of America Annual Meeting. St. Louis, MO. 17-20 November, 2019 (Oral presentation).

Oksel, C., **Baysal-Gurel, F.,** and Mirik, M. 2019. Identification and Genetic Characterization of *Pseudomonas syringae* pvs. on cherry trees. 2019 KY-TN ASM Spring branch meeting. Tennessee State University. Nashville, TN. November 8-9, 2019 (Poster presentation).

Neupane, S., Simmons, T., and **Baysal-Gurel, F.** 2019. Evaluation of fungicides, biofungicides, host plant defense inducers and fertilizers for the control of Phytophthora root rot of boxwood. 2019 KY-TN ASM Spring branch meeting. Tennessee State University. Nashville, TN. November 8-9, 2019 (Poster presentation).

Alexander, L. and **Baysal-Gurel, F.** 2019. Ploidy level influences powdery mildew disease severity in *Hydrangea macrophylla*. 2019 KY-TN ASM Spring branch meeting. Tennessee State University. Nashville, TN. November 8-9, 2019 (Poster presentation).

Panth, M., Simmons, T., and **Baysal-Gurel, F.** 2019. Impact of Cover Crop Usage on Soilborne Disease Suppressiveness in Field Nursery Production. 2019 KY-TN ASM Spring branch meeting. Tennessee State University. Nashville, TN. November 8-9, 2019 (Poster presentation).

Bika, R., Simmons, T., and **Baysal-Gurel, F.** 2019. Is *Fusarium oxysporum* causal agent for Zinnia flower meltdown issue? 2019 KY-TN ASM Spring branch meeting. Tennessee State University. Nashville, TN. November 8-9, 2019 (Poster presentation).

**Baysal-Gurel, F.** and Alexander, L. 2019. Susceptibility of bigleaf hydrangea cultivars to *Erysiphe polygoni*. TSU Plant Science Symposium. Tennessee State University. Nashville, TN. November 7, 2019 (Poster presentation).

Ojha, V., Oliver, J., Addesso, K., **Baysal-Gurel, F.,** Youssef, N., and Simmons, T. 2019. Evaluation of systemic fungicides for control of nursery-attacking ambrosia beetles. Tennessee Entomological Society 46th Annual meeting. Nashville, TN, 17-18 October, 2019 (Oral presentation).

Deren, V., **Baysal-Gurel, F.,** and Addesso, K. Application of microbial pesticides changes mite behavior. Tennessee Entomological Society 46th Annual meeting. Nashville, TN, 17-18 October, 2019 (**First place- Graduate student oral presentation**).

Holden, M. A, Simmons, T., Pokharel, B. and **Baysal-Gurel, F.** 2019. Effect of biofumigation with solarization in suppressing Phytophthora root and crown rot on field-grown boxwood. APS Plant Health 2019. August 3-7, 2019. Cleveland, OH (Poster presentation).

Holden, M. A, Simmons, T., Pokharel, B. and **Baysal-Gurel, F.** 2019. Comparative performance of fungicides, biofungicides, host plant defense inducers, and fertilizer in suppression of Phytophthora root rot in boxwood. APS Plant Health 2019. August 3-7, 2019. Cleveland, OH (Poster presentation).

**Baysal-Gurel, F.,** Simmons, T., and Holden, M. A. 2019. Management of black leaf spot of rose with fungicides.APS Plant Health 2019. August 3-7, 2019. Cleveland, OH (Poster presentation).

**Baysal-Gurel, F.** 2019. Track and Trace: Plant Pathogen Detection. 1st International Molecular Plant Protection Congress. April 10-13, 2019. Adana, Turkey **(Key note speaker- Oral presentation).**

**Baysal-Gurel, F.** and Simmons, T. 2019. Management of black leaf spot of rose using fungicides. The 41th Annual University-Wide Research Symposium, 2019. April 1-5, 2019. Nashville, TN (Poster presentation).

**Baysal-Gurel, F.,** Simmons, T., Holden, M. Panth, M. and Bika, R. 2019. Evaluation of fungicides at different application intervals for the control of powdery mildew of dogwood. The 41th Annual University-Wide Research Symposium, 2019. April 1-5, 2019. Nashville, TN (Poster presentation).

Holden, M., Simmons, T., **Baysal-Gurel, F.** 2019. Occurrence of Fusarium Crown Rot on Oakleaf Hydrangea (*Hydrangea quercifolia*). The 41th Annual University-Wide Research Symposium, 2019. April 1-5, 2019. Nashville, TN (Oral presentation).

Panth, M. Simmons, T., **Baysal-Gurel, F.** 2019. Occurrence of Phytopythium disease on woody ornamentals. The 41th Annual University-Wide Research Symposium, 2019. April 1-5, 2019. Nashville, TN (Oral presentation).

**Baysal-Gurel, F.,** Simmons, T., Holden, M. 2019. Efficacy of isofetamid fungicide, a new succinate dehydrogenase inhibitor, to control Botrytis blight on hydrangea.Association of Research Directors, Inc. 19th Biennial Research Symposium. March 30 - April 3, 2019, Jacksonville, FL (Poster presentation).

Holden, M., Simmons, T., **Baysal-Gurel, F.** 2019. First report of Fusarium crown rot of oakleaf hydrangea in Tennessee. Association of Research Directors, Inc. 19th Biennial Research Symposium. March 30 - April 3, 2019, Jacksonville, FL (**Oral presentation second place).**

**Baysal-Gurel, F.,** Brown, M., Oliver, J., Addesso, K. 2019. Control of Phytophthora root rot and ambrosia beetles on flowering dogwood trees during simulated flood events. 96th Southern division APS meeting. Feb 7-9, 2019. Gainesville, FL (Poster presentation).

**2018**

**Baysal-Gurel, F.,** Brown, M., Oliver, J., Addesso, K. 2018. Comparative performance of fungicides, biofungicides, and host plant defense inducers in suppression of Phytophthora root rot in flowering dogwood during simulated flood events. International Soilborne Oomycete Conference. December 4-6, 2018. Islomorada, FL (Invited speaker- Oral presentation).

Brown, M., **Baysal-Gurel, F.,** Oliver, J., Addesso, K. 2018. Managing Phytophthora root rot on flood stressed woody ornamental plants. ICPP meetingJuly 29-August 3, 2018 Boston, MA (Poster presentation).

**Baysal-Gurel, F.,** Erdemir, E., Darrah, T., Kaplanoglu, E., Turner, R., and Hargrove, S.K. 2018. Design of a flagella-propelled bio-inspired submersible robot for hydroponic production and irrigation system inspection. ICPP meetingJuly 29-August 3, 2018 Boston, MA (Poster presentation).

Alexander, L., **Baysal-Gurel, F.** 2018. Ploidy level influences resistance to powdery mildew disease in *Hydrangea macrophylla*. ASHS meeting. July 30-August 3, 2018 Washington DC (Oral presentation).

**Baysal-Gurel, F.** and Simmons, T. 2018. Control of Botrytis blight of hydrangea with isofetamid, a new succinate dehydrogenase inhibitor fungicide. The 40th Annual University-Wide Research Symposium, 2018. April 2-6, 2018. Nashville, TN (Poster presentation).

Kabir, Md. N., and **Baysal-Gurel, F.** 2018. Comparison of concentration methods to facilitate the successful recovery and early detection of *Phytophthora* speciesfrom Tennessee nursery irrigation water.The 40th Annual University-Wide Research Symposium, 2018. April 2-6, 2018. Nashville, TN (Oral presentation).

Kabir, Md. N., Simmons, T. and **Baysal-Gurel, F.** 2018. Development of integrated pest management approach to control Phytophthora root rot in field grown hydrangeas. The 40th Annual University-Wide Research Symposium, 2018. April 2-6, 2018. Nashville, TN (Poster presentation).

Brown, M., **Baysal-Gurel, F.,** Oliver, J., Addesso, K. Control of *Phytophthora cinnamomi* on flood stressed woody ornamental plants using preventive and curative fungicides.The 40th Annual University-Wide Research Symposium, 2018. April 2-6, 2018. Nashville, TN (Poster presentation).

Brown, M., Addesso, K., **Baysal-Gurel, F.,** Dafeng, H., Ejiofor, A. Oliver, J. 2018. Effect of Insecticide Residual Activity on Prevention of Ambrosia Beetle Attacks. The 40th Annual University-Wide Research Symposium, 2018. April 2-6, 2018. Nashville, TN (Oral presentation).

**Baysal-Gurel, F.,** and Liyanapathiranage, P. 2018. Sustainable Management of Soil-borne Diseases in Nursery Production. Our Farms, Our Future Conference. Apr 3-5, 2018. St. Louis, Missouri (**Poster presentation- SSARE travel award**).

Kabir, Md. N., Simmons, T. and **Baysal-Gurel, F.** 2018. Control of *Phytophthora* root rot disease of hydrangea using biorational products and fungicides**.** 9th International IPM Symposium. Mar 19-22, 2018. Baltimore, MD (Poster presentation).

**Baysal-Gurel, F.,** Kabir, Md. N., and Simmons, T. 2018. Management of Cercospora leaf spot of hydrangea using biorational products and fungicides.9th International IPM Symposium. Mar 19-22, 2018. Baltimore, MD (Poster presentation).

**Baysal-Gurel, F**., and Simmons, T. 2018. Control of Botrytis blight of hydrangea with isofetamid, a new succinate dehydrogenase inhibitor fungicide. 95th Southern division APS meeting. Feb 16-18, 2018. Fayetteville, AR (Poster presentation).

**Baysal-Gurel, F.,** and Simmons, T. 2018. Development of fungicide rotation program for the control of powdery mildew of crapemyrtle. 95th Southern division APS meeting. Feb 16-18, 2018. Fayetteville, AR (Poster presentation).

**2017**

Kabir, Md. N., Simmons, T. and **Baysal-Gurel, F.** 2017. Effect of fungicides and biorational products on *Rhizoctonia* root rot of viburnum. The 2017 Tennessee Academy of Sciences meeting at the University of Tennessee at Martin. November 17, 2017 (Oral presentation).

Brown, M., Oliver, J., Addesso, K., **Baysal-Gurel, F.,** and O’Neal, P. 2017. Fungicidal management of ambrosia beetles in ornamental nurseries. The 2017 Tennessee Academy of Sciences meeting at the University of Tennessee at Martin. November 17, 2017 (**Poster presentation-second place**).

Brown, M., Oliver, J., Addesso, K., and **Baysal-Gurel, F**. 2017.Evaluation of stress-mitigating fungicides to prevent ambrosia beetle attacks on flood-stressed nursery trees. Tennessee Entomological Society Annual Meeting. Nashville, TN. 5 Oct. 2017 (Oral presentation).

Liyanapathiranage, P., Kabir, Md N., Simmons, T., **Baysal-Gurel, F.** 2017. Sustainable approaches for soilborne disease management in nursery production. The American Phytopathological Society. August 6-9, 2017. San Antonio, TX. 144-P (Poster presentation).

Dawadi, S., Addesso, K., O'Neal, P., Liyanapathiranage, P., Pandey, M., **Baysal-Gurel, F.** 2017. Impact of cover crop usage on soilborne pathogens in a nursery production system. The American Phytopathological Society. August 6-9, 2017. San Antonio, TX. 149-P (Poster presentation).

Kabir, MD N., Liyanapathiranage, P., Simmons, T., **Baysal-Gurel, F.** 2017. Control of root rot diseases of woody ornamentals using biorational products and fungicides. The American Phytopathological Society. August 6-9, 2017. San Antonio, TX. 301-P (Poster presentation).

Liyanapathiranage, P., Kabir, Md N., Simmons, T., **Baysal-Gurel, F.** 2017. Pathogenicity of Rhizoctonia solani and Phytophthora nicotianae to Brassicaceae Biofumigant Cover Crops. The American Phytopathological Society. August 6-9, 2017. San Antonio, TX. 496-P (Poster presentation).

Kabir, Md N., Liyanapathiranage, P., Simmons, T., **Baysal-Gurel, F.** 2017. Evaluation of Biorational Products and Fungicide in Management of Powdery Mildew and Cercospora Leaf Spot Diseases of Hydrangea. Association of Research Directors, Inc. 18th Biennial Research Symposium. April 1-4, 2017. Atlanta, Georgia (Oral presentation).

Kabir, Md N., Liyanapathiranage, P., Simmons, T., **Baysal-Gurel, F.** 2017. Evaluation of biorational products and fungicides for management of Phytophthora root rot of Hydrangea. TSU 39th Research Symposium. April 17-21, 2017. Nashville, Tennessee (Oral presentation).

Liyanapathiranage, P. and **Baysal-Gurel, F.** 2017. Pathogenicity of *Rhizoctonia solani* and *Phytophthora nicotianae* to biofumigation cover crops (*Brassica* spp.). TSU 39th Research Symposium. April 17-21, 2017. Nashville, Tennessee (Oral presentation).

Liyanapathiranage, P., Kabir, Md N., Simmons, T., **Baysal-Gurel, F.** 2017. Response of Hydrangea cultivars to powdery mildew and effect of biorational products and fungicide on powdery mildew disease of hydrangea. TSU 39th Research Symposium. April 17-21, 2017. Nashville, Tennessee (Poster presentation).

Addesso, K.M., **Baysal-Gurel, F.,** Oliver, J.B., and O'Neal. P.A. 2017. Systemic fungicide treatment suppresses ambrosia beetle attacks and *Phytophthora cinnamomi* root rot infection during a simulated flooding event. Southeastern Branch of the Entomological Society of America, Memphis, TN, March 12-15th, 2017 (Oral presentation).

**2016**

Liyanapathiranage, P., Kabir, Md N., Simmons, T., **Baysal-Gurel, F.** 2016.Evaluation of inoculation methods and inoculum level of *Rhizoctonia solani* to determine disease response. Tennessee Academy of Science- Annual Meeting. November 19, 2016. Austin Peay State University, Clarksville, Tennessee (Poster presentation).

Kabir, Md N., Liyanapathiranage, P., Simmons, T., **Baysal-Gurel, F.** 2016.Controlling powdery mildew on flowering dogwood with different fungicides and biorational products. Tennessee Academy of Science- Annual Meeting. November 19, 2016. Austin Peay State University, Clarksville, Tennessee (Poster presentation).

**Baysal-Gurel, F.** Liyanapathiranage, P., Kabir, Md N., Simmons, T., Alexander, L. 2016. Effect of fungicides and biorational products on powdery mildew disease of hydrangea. Ornamental Workshop on Diseases and Insects. October 24-27 2016. Hendersonville, North Carolina (Poster presentation).

Addesso, K.M., **Baysal-Gurel, F.,** O'Neal, P.A., and Oliver, J.B. 2016. A stress-mitigating product to reduce ambrosia beetle attacks on trees. Tennessee Entomological Society, Knoxville, TN, Oct 6th-7th, 2016 (Oral presentation).

**Baysal-Gurel, F.** 2016. Improved sanitation/hygiene practices in crop production. National 6th Plant Protection Congress. Sep-5-8, 2016. Konya, Turkey (Oral presentation).

Fulcher, A., LeBude, A., White, S., Chappell, M., Marble, C., Chong, J.C., Dunwell, W.C., Frank, S., Hale, F., Neal, J.C., Windham, A., Klingeman, W.E., Knox, G.W., Derr, J.F., Williams-Woodward, J., Adkins, C., Braman, S.K., Dale, A., **Baysal-Gurel, F.,** Del Castillo- Munera, J., Hand, F.P., Ward Gauthier, N., Vafaie, E. 2016. Working group synergy Part I: Developing a successful, sustainable working group. 2016 ASHS Meeting. Atlanta, GA. Aug 9, 2016 (Oral presentation).

Liyanapathiranage, P., Simmons, T., Kabir, MD N., Addesso, K., **Baysal-Gurel, F.** 2016. Efficacy of synthetic and biorational products against powdery mildew of flowering dogwood. The American Phytopathological Society. July 30-August 3rd, 2016. Tampa, FL. 151-P (Poster presentation).

Kabir, MD N., Liyanapathiranage, P., Simmons, T., **Baysal-Gurel, F.** 2016. Effect of biopesticides on Phytophthora Root Rot Disease of Oakleaf Hydrangea. The American Phytopathological Society. July 30-August 3rd, 2016. Tampa, FL. 190-P (Poster presentation).

Liyanapathiranage, P., Dawadi, S., Kabir, MD N., Simmons, T., **Baysal-Gurel, F.** 2016. Assessment of in-vitro efficacy of different disinfectants against common bacterial diseases on woody ornamentals. The American Phytopathological Society. July 30-August 3rd, 2016. Tampa, FL. 306-P (Poster presentation).

Kabir, MD N., Simmons, T., Liyanapathiranage, P., **Baysal-Gurel, F.** 2016. Evaluation of stem inoculation technique for assessing resistance to *Phytophthora nicotianae* in hydrangea cultivars. The American Phytopathological Society. July 30-August 3rd, 2016. Tampa, FL. 381-P (Poster presentation).

Kabir, Md N., Simmons, T., Liyanapathiranage, P., Straton, C., Alexander, L., and **Baysal-Gurel, F.** 2015. Stem inoculation technique to assess resistance in hydrangea cultivars to *Phtophthora nicotianae*. TSU 38th Annual University-Wide Research Symposium, 2016 (Poster presentation).

Liyanapathiranage, P., Simmons, T., Kabir, Md N., Addesso, K., **Baysal-Gurel, F.** 2016. Evaluation of biorational products and fungicides for the control of powdery mildew of dogwood. TSU 38th Annual University-Wide Research Symposium, 2016 (Poster presentation).

**2015**

Kabir, N., Simmons, T., Liyanapathiranage, P., Stratton, C., Alexander, L., **Baysal-Gurel, F.** 2015. Stem inoculation technique to assess resistance in hydrangea cultivars to *Phytophthora nicotianae*. OSU Soil biology symposium, Stillwater, OK. December 5, 2015 (Poster presentation).

**Invited speaker (last 5 years)**

**2020**

**Baysal-Gurel, F.** 2020.Woody Ornamental Diseases and Their Management- Research Updates. Virtual KNLA’s 2020 Summer Outing. August 27, 2020.

**Baysal-Gurel, F.** 2020.Boxwood blight in Tennessee. Boxwood health workshop. George Washington Carver Center, USDA, Beltsville, MD. February 20, 2020.

**Baysal-Gurel, F.** 2020. Sanitation for boxwood blight management. Boxwood health workshop. Aurora, OR. February 4, 2020.

**2019**

**Baysal-Gurel, F.** 2019. Evaluation of fungicides and biofungicide to control Phytophthora root rot and ambrosia beetles on flowering dogwoods exposed to simulated flood events. S1083 Working Group Meeting, December 13, 2019.

**Baysal-Gurel, F.** 2019. Evaluation of fungicides and biofungicide to control Phytophthora root rot and ambrosia beetles on flood-stressed flowering dogwoods. Ambrosia beetle working group meeting. October 15, 2019. Griffin, GA.

**Baysal-Gurel, F.** 2019.Sanitation and disease management research. American Hort Plug and Cutting Conference. Charlotte, NC. September 4-6, 2019.

**Baysal-Gurel, F.** 2019. Track and Trace: Plant Pathogen Detection. 1st International Molecular Plant Protection Congress. April 10-13, 2019. Adana, Turkey (**Key note speaker**)

**Baysal-Gurel, F.** Ornamental Disease Management Research Updates. Advanced Pest &Disease Workshop, WinterGreen Tradeshow & Conference. January 24, 2019. Duluth, GA.

**2018**

**Baysal-Gurel, F.,** Brown, M., Oliver, J., Addesso, K. 2018. Comparative performance of fungicides, biofungicides, and host plant defense inducers in suppression of Phytophthora root rot in flowering dogwood during simulated flood events. International Soilborne Oomycete Conference. December 4-6, 2018. Islomorada, FL.

**Baysal-Gurel, F.** 2018. Biofumigation: opportunities and challenges for control of soilborne diseases in nursery production. University of Georgia, Athens, GA. Aug 27, 2018.

**Baysal-Gurel, F.** 2018. Sanitation and disease management. Webinar. AmericanHort.

**2017**

**Baysal-Gurel, F.** 2017. System approach on disease management. Cukurova University, Adana, Turkey, April 10, 2017.

**2016**

**Baysal-Gurel, F.** 2016. Soilborne diseases of woody ornamentals in nursery production systems. Multistate Project S-1053- Ecological and Genetic Diversity of Soil-borne Pathogens and Indigenous Microflora Annual Meeting, McMinnville, TN October 19, 2016.

**Baysal-Gurel, F.** 2016. Operational Risk Management Assessment. SCRI Downy Mildew Workshop. November 15-16, 2016. Philadelphia, PA.

**Baysal-Gurel, F.** 2016. Grower Survey Results. SCRI Downy Mildew Workshop. November 15-16, 2016. Philadelphia, PA.

**Baysal-Gurel, F.** 2016. Improved Sanitation/hygiene Practices in Crop Production. National 6th Plant Protection Congress. Sep-5-8, 2016. Konya, Turkey.

**Baysal-Gurel, F.** 2016. Nursery diseases in the Warren County area. Tennessee Department of Agriculture Plant Inspectors Meeting. Ellington Agriculture Center, Nashville, TN. January 13, 2016.

**2015**

**Baysal-Gurel, F.** 2015. Diseases of woody ornamentals in nursery production systems. Cukurova University, Adana, Turkey, December 30, 2015.

**Baysal-Gurel, F.** Soil borne diseases of woody ornamentals in nursery production systems. Multistate Project S-1053- Ecological and Genetic Diversity of Soil-borne Pathogens and Indigenous Microflora Annual Meeting, Stillwater, OK, December 4, 2015.

**Baysal-Gurel, F.** 2015. Developing advanced research tools strengthens Plant Disease management. University of Tennessee, Knoxville, TN, September 4, 2015.

**BOOK CHAPTER**

**Baysal-Gurel, F.** 2020. *Pseudocercospora fuligena*. CABI Invasive species compendium datasheet. https://www.cabi.org/isc/datasheet/12222

**Baysal-Gurel, F.** Kaydan, B., Aysan, Y. 2018. Landscape diseases and arthropod pests. Book: Recent researches in science and landscape management. Cambridge Scholars publishing.

**Extension Publications (last 5 years)**

**2020**

**Baysal-Gurel, F.** 2020.Disinfectants for *Botrytis cinerea* and *Calonectria pseudonaviculata.* Chase Digest August 2020 Issue Volume 8(8).

**Baysal-Gurel, F.** 2020. Powdery mildew control on dogwood. Chase Digest June 2020 Issue Volume 8(6).

**Baysal-Gurel, F.** 2020. Rose downy mildew. Nursery Management Magazine April 2020 issue. http://magazine.nurserymag.com/article/april-2020/rose-downy-mildew-disease-control.aspx

**Baysal-Gurel, F**. 2020. Cercospora Leaf Spot Control on Hydrangea. Chase Digest March 2020 Issue Volume 8(3).

**Baysal-Gurel, F**. 2020. Cercospora Leaf Spot Control on Crape Myrtle. Chase Digest March 2020 Issue Volume 8(3).

**Baysal-Gurel, F**. 2020. Phytophthora root and crown rot of boxwood. Tennessee Greentimes. Volume 21/No. 1 Spring 2020.

**2019**

**Baysal-Gurel, F**. 2019. Control of Phytophthora on boxwood. Chase Digest August 2019 Issue Volume 7(8).

**Baysal-Gurel, F.** 2019. Do fungicides help prevent Phytophthora root rot after flooding? Chase Digest June 2019 Issue Volume 7(7).

**Baysal-Gurel, F**., Phillips, C.A. 2019. Black spot of rose. ANR-PATH-14-2019. TSU-19-0167(B)-15i-6105.

**Baysal-Gurel, F.** 2019. Woody Ornamental Disease Management Research Reports. TSU-19-0167(B)-13c-6105.

**Baysal-Gurel, F**. 2019. Black spot on rose update. Chase Digest March 2019 Issue Volume 7(3).

**Baysal-Gurel, F**. 2019. Stargus. Chase Digest March 2019 Issue Volume 7(3).

**2018**

**Baysal-Gurel, F.** 2018.Research Helps Guide Powdery Mildew Management on Woody Ornamentals. Tennessee Greentimes. Volume 19/No.4 Winter 2018.

**Baysal-Gurel, F.,** Holden, M.A. 2018. Abiotic disorders of boxwood.ANR-PATH-13-2018. TSU-19-0046(B)-15i-61065.

**Baysal-Gurel, F**., Phillips, C.A. 2018. Fire blight. ANR-PATH-12-2018. TSU-19-0035(B)-15i-61605.

**Baysal-**Gurel, F., Gunter, J. 2018. Powdery mildew on dogwood. ANR-PATH-11-2018. TSU-19-0017(B)-15i-61015.

**Baysal-Gurel, F.,** Masters, H.D. 2018 Rose downy mildew. ANR-PATH-10-2018. TSU-19-0030(B)-15i-61015.

**Baysal-**Gurel, F. 2018. Rotation, rotation, rotation. Greenhouse management July 5, 2018.

**Baysal-Gurel, F**. 2018. Fungicides for control of Cercospora leaf spot on Hydrangea. Chase Digest November 2018 Issue Volume 6(11).

**Baysal-Gurel, F**. 2018. Controlling Rhizoctonia root rot on viburnum in the greenhouse and in the field. Chase Digest October 2018 Issue Volume 6(10).

**Baysal-Gurel, F**. 2018. Algal leaf spot control on magnolia. Chase Digest July 2018 Issue Volume 6(7).

**Baysal-Gurel, F**. 2018. Phytophthora root rot control on dogwood and vinca. Chase Digest June 2018 Issue Volume 6(6).

**Baysal-Gurel, F**. 2018. Rotations for Control of Crapemyrtle or Dogwood Powdery Mildew. Chase Digest April 2018 Issue.

**Baysal-Gurel, F**. 2018. Fireblight Prevention on Flowering Crabapples. Chase Digest March 2018 Issue.

**Baysal-Gurel, F**. 2018. Cercospora prevention on Crapemyrtles. Chase Digest March 2018 Issue.

**Baysal-Gurel, F.** 2018.Woody Ornamental Disease Management Research Reports 2017. TSU-17-0100 (A)-13c-61065.

**2017**

**Baysal-Gurel, F.** 2017.Research Helps Guide Downy Mildew Management on Roses. Tennessee Greentimes. Volume 18/No. 4 Winter 2017.

**Baysal-Gurel, F.,** Kabir, Md N., and Randaci, A. 2017. Dogwood anthracnose. ANR-PATH-8-2017. TSU-18-0039(B)-15i-61065.

**Baysal-Gurel, F.,** Kabir, Md N., and Randaci, A. 2017. Boxwood- Phytophthora Root and Crown Rot. ANR-PATH-9-2017. TSU-18-0043(B)-15i-61605.

**Baysal-Gurel, F.** 2017. Identification of boxwood diseases and pests. November 2017. TSU-18-0042(B)-4a-61065.

**Baysal-Gurel, F.** 2017. Black spot control on roses. Chase digest July 2017 Issue.

**Baysal-Gurel, F.** and Aysan, Y. 2017. Sus bitkilerinde karsilasilan hastaliklarla mucadelede neler yapilabilir? PLANT. Issue 23. March-May 2017 Page 120-124 (Turkish).

**Baysal-Gurel, F.** 2017. Güllerde Mildiyö Hastalığı ve Mücadelesi. TarlaSera. Agustos 2017. sayfa 84-85 (Turkish).

**Baysal-Gurel, F.** 2017. Greenhouse Managements- July 2017- Strategic solutions. http://www.greenhousemag.com/article/strategic-solutions/

**Baysal-Gurel, F.** 2017. Southern Standard. Lifestyles. 'Shroom with a view. June 21, 2017.

**Baysal-Gurel, F.** and Liyanapathiranage, P. 2017. Boxwood blight. TSU Factsheet. ANR-PATH-7-2017. TSU- 17-0036(A)-15i-61065**.**

**Baysal-Gurel, F**. 2017. Powdery Mildew Control on Crape Myrtle Cultivars. Chase Digest June 2017 Issue.

**Baysal-Gurel, F.** 2017. Foliar Disease Control on Dogwood with Newer Fungicides. Chase Digest. May 2017 Issue.

**Baysal-Gurel, F**. 2017. Rhizoctonia root rot control on Viburnum. Chase Digest. April 2017 Issue.

**Baysal-Gurel, F.** 2017.Woody Ornamental Disease Management Research Reports 2015 and 2016. TSU-17-0100 (A)-13c-61065.

**Baysal-Gurel, F.** 2017.Cercospora leaf spot management onhydrangea. Chase Digest. March 2017 Issue.

**Baysal-Gurel, F.** 2017. Rose Downy Mildew Control. Chase Digest. Feb 2017 Issue.

**2016**

**Baysal-Gurel, F.** and Liyanapathiranage, P., 2016. Boxwood-Volutella blight. ANR-PATH-6-2016. TSU-16-0262 (A)-15i-61065.

**Baysal-Gurel, F**., Kabir, Md N., and Blalock, A., 2016. Foliar diseases of hydrangeas. ANR-PATH-5-2016. TSU-16-0236(A)-15-61065.

**Baysal-Gurel, F.,** Kabir, Md N., and Blalock, A., 2016. Root diseases of hydrangeas. ANR-PATH-4-2016. TSU

**Baysal-Gurel, F.,** 2016. Selection and usage of disinfectants for nursery production. ANR-PATH-3-2016. TSU-16-0235(A)-15-61065.

**2015**

**Baysal-Gurel, F.,** Liyanapathiranage, P., and Blalock, A., 2015. Southern blight management for woody ornamentals. ANR-PATH-02-2015. TSU-16-0191(A)-15-61065.

Blalock, A. and **Baysal-Gurel, F.,** 2015. Juniper tip blight. ANR-PATH-01-2015. TSU-15-0145(A)-15-61055.

**Extension Presentations (last 5 years)**

**2020**

**Baysal-Gurel, F.** 2020. Impact of climate change on Plant Diseases and their management. Climate change workshop. Murfreesboro, TN. March 11, 2020

**Baysal-Gurel, F.** Plant Diseases. 2020 TN Warren County Master Gardener Class. McMinnville, TN. March 3, 2020.

**Baysal-Gurel, F.** 2020. Pepper diseases and their management. 2020 in-service training. Murfreesboro, TN. February 25, 2020.

**Baysal-Gurel, F.** 2020. Sanitation for boxwood blight management. Boxwood health workshop. Aurora, OR. February 4, 2020.

**Baysal-Gurel, F.** 2020. Impact of climate change on Plant Diseases and their management. Climate change workshop. Jackson, TN. January 22, 2020

**2019**

**Baysal-Gurel, F.** 2019. Boxwood diseases and their management. Boxwood Diseases & Pests Workshop. TSU, Clarksville, TN. November 15, 2019.

**Baysal-Gurel, F.** 2019. Boxwood diseases and their management. Boxwood Diseases & Pests Workshop. TSU, Lebanon, TN. November 14, 2019.

**Baysal-Gurel, F.** 2019. Boxwood diseases and their management. Boxwood Diseases & Pests Workshop. TSU, Nashville, TN. November 13, 2019.

**Baysal-Gurel, F.** 2019. Diseases of Trees- Carroll County 4-H forestry teams. SUNRC- McMinnville, TN. October 8, 2019.

Addesso, K. Oliver, J., **Baysal-Gurel, F.** 2019. Managing hard to manage nursery and landscape pests: Ambrosia beetles, Japanese maple scale, and Phytophthora. 19th Annual nursery crop field day, Cladwell County Nurserymen’s Association. Lenoir, NC. September 30, 2019.

**Baysal-Gurel, F.** 2019.Boxwood blight/ Riverbend Nurseries Customer Appreciation Day. August 20, 2019. Franklin, TN.

**Baysal-Gurel, F.** 2019 Phytophthora Disease Management- TSU Nursery Field Day. July 25, 2019. McMinnville, TN.

**Baysal-Gurel, F.** 2019 Junior Master Gardener Daycamp. June 18, 2019. McMinnville, TN.

**Baysal-Gurel, F.** 2019 Agriculture in the Classroom Science Workshop. Management of Fungal Plant Pathogens. June 12, 2019. McMinnville, TN.

**Baysal-Gurel, F.** Ben Lomand Garden club- Plant Diseases common in Tennessee. June 7, 2019. McMinnville, TN.

**Baysal-Gurel, F.** 2019 Madison County Extension agents in service training. May 14, 2019. Jackson, TN.

**Baysal-Gurel, F.** 2019 SOD and Boxwood blight training for TDA plant inspectors. April 4, 2019. Boyd Nursery, McMinnville, TN.

**Baysal-Gurel, F.** Plant Diseases. 2019 TN Warren County Master Gardener Class. March 19, 2019. McMinnville, TN.

**Baysal-Gurel, F.** Ornamental diseases and their management. 2019 PicTN Conference. February 23, 2019. Franklin, TN.

**Baysal-Gurel, F.** Boxwood Diseases and their management. SiteOne University. February 20, 2019. Wilson County Expo Center. Lebanon, TN.

**Baysal-Gurel, F.** Ornamental Disease Management Research Updates. Advanced Pest &Disease Workshop, WinterGreen Tradeshow & Conference. January 24, 2019. Duluth, GA.

**Baysal-Gurel, F.** Best Management Practices for Boxwood Diseases. The 2019 Green Express Horticultural Short Course, January 4, 2019.Chattanooga State College, Chattanooga, TN.

**2018**

**Baysal-Gurel, F.** Boxwood Disease Management Updates. TDA Shipping Meeting.McMinnville, TN. December 13, 2018.

**Baysal-Gurel, F.** TSUNRC Plant Pathology Program updates.IPPS tour. McMinnville, TN. October 21, 2018.

**Baysal-Gurel, F.** Boxwood Diseases and their management.Tennessee Nursery Field day. McMinnville, TN. July 24, 2018.

**Baysal-Gurel, F.** Boxwood Diseases and their management.MTNA Field day.McMinnville, TN. June 14, 2018.

**Baysal-Gurel, F.** Boxwood Disease Landscaper Workshop.Murfreesboro, TN. February 9, 2018.

**2017**

**Baysal-Gurel, F.** Boxwood Disease Training.McMinnville, TN. November 9, 2017.

**Baysal-Gurel, F.** Tennessee Nursery Field Day.McMinnville, TN. June 20, 2017.

**Baysal-Gurel, F.** Tennessee Warren County Master Gardener Class. McMinnville, TN. January 17, 2017.

**Baysal-Gurel, F.** McMinnville Garden Club Meeting. McMinnville, TN. January 10, 2017.

**2016**

**Baysal-Gurel, F.** Diseases of trees. Shelby and Williamson Counties 4-H group visit, McMinnville, TN, May 2, 2016.

**Baysal-Gurel, F.** Common landscape and garden diseases of Tennessee. Third Tuesday Field days and Education workshops. Tennessee State University, Nashville, TN. April 19, 2016.

**Baysal-Gurel, F.** Garden diseases and control. 7th Annual Giles County Lawn Garden and Home Show, Pulaski, TN, February 8, 2016.

**Baysal-Gurel, F.** Plant Diseases. 2016 TN Master gardener classes. TSU NRC, McMinnville, TN, February 2, 2016.

**2015**

Blalock, A. and **Baysal-Gurel, F.** Diseases of trees. Williamson Co. 4-H group visit, McMinnville, TN, August 14, 2015.

**Baysal-Gurel, F**. Woody Ornamental Pathology Program. TDA plant certification section meeting, McMinnville, TN, July 9, 2015.

**GRANTS AND COOPERATIVE AGREEMENTS (last 5 years)**

SSARE-2020 Graduate Student Grant Proposal. **Fulya Baysal-Gurel (PI)** and Krishna Neupane. Sustainable management of *Phytophthora cinnamomi* and ambrosia beetles under stress conditions. 2020-2022. $16,335.

USDA-ARS Floriculture Research Initiative New Non-Assistance Cooperative Agreement No. 58-8020-0-006. **Fulya Baysal-Gurel (PI)** and Lisa Alexander (Co-PI).Functional genomics of powdery mildew resistance in bigleaf hydrangea. 2020-2025. $122,300.

USDA-ARS Floriculture Research Initiative. New Cooperative Agreement No. 58-8020-8-009.  Amendment No. 2. Jason Oliver (PI), Karla Addesso (Co-PI), Anthony Witcher (Co-PI), **Fulya Baysal-Gurel (Co-PI)**, and Lisa Alexander (Co-PI). Methods for quarantine certification and biological control of imported fire ant in nursery production systems. Award Notification 20 May 2020. (Project Period: Sept. 1, 2018 to July 31, 2023).  $40,698.

USDA-NIFA-SCRI. Chuanxue Hong (PD), **Fulya Baysal-Gurel (Co-PD)**, Douglas Luster (Co-PD), Margery Daughtrey (Co-PD), Jerry Weiland (Co-PD), Ping Kong (Co-PD), Charlie Hall (Co-PD), Fred E. Gouker (Co-PD). Improving boxwood blight mitigation through innovation, economic analysis and education. 2020-2024. $ 3,998, 178.

USDA-NIFA-SCRI. Karla Addesso (PD), Jason Oliver (Co-PD), Anthony Le Bude (PI), Kimberly Jensen (PI), William Klingeman (PI), Nik Wiman (PI), **Fulya Baysal-Gurel (Co-PI)**, Anthony Witcher (Co-PI) et al. Flatheaded borer management in specialty crops. 2020-2022- $3,505,761 and 2022-2024- $2,553,194 = Total: $6,058,955.

USDA-NIFA- 1890 Scholarship Program. De’Etra Young (PI), **Fulya Baysal-Gurel (Co-PI)**, Laureen Kennedy (Co-PI). TSU 1890 Scholarship Program: Training and Mentoring the Next Generation of Leaders in Food and Agricultural Sciences. 2020-2024. $2,250,000.

USDA-NIFA-IR-4 prime Award 2020-34383. **Fulya Baysal-Gurel (PI).** New disease products foliar and soil. 2020-2021. $16,500.

TUBITAK- TURKEY 21514107-115.02-E.122448. Cansu Oksel and **Fulya Baysal-Gurel (PI).** The characterization and multilocus sequence analysis (MLSA) of *Pseudomonas syringae* pv. *syringae* and *P. syringae* pv. *morsprunorum*. 2019-2020. $10,800 + Airfare for Cansu Oksel.

USDA-Capacity Building Grant. USDA-NIFA 2019-38821-29062. **Fulya Baysal-Gurel (PI),** Erdem Erdemir (Co-PI), Anthony Witcher (Co-PI), Jason de Koff (Co-PI), Aditya Khanal (Co-PI). Improving production and profitability of nursery production using unmanned aircraft system. 2019-2021. $599,925.

USDA-NIFA-IR-4 prime award 2019-34383-29883. **Fulya Baysal-Gurel (PI).** Botrytis efficacy project. 2019-2021. $12,500.

Tennessee Department of Agriculture Specialty Crop Block Grant. TDA- AM 1901 OOXXXXG006 Edison Supplier ID 64729. **Fulya Baysal-Gurel (PI).** Improving Sustainable Boxwood Disease Management in Tennessee Nursery Production. 2019-2022. $43,964.60.

USDA-NIFA Evans-Allen Program. TENX-1926-CCOCP. **Fulya Baysal-Gurel (PI).** Improving productivity and soil-borne disease control in nursery crop production. 2018-2021. $21,000.

USDA- SCRI Planning Grant Program. USDA-NIFA 2018-51181-28385. Jason Oliver (PI), **Fulya Baysal-Gurel (Co-PI)** et al.Flatheaded Borer (FB) Management in Specialty Tree Crops. 2018-2019. $49,885.62.

USDA-ARS Floriculture Research Initiative New Cooperative Agreement No. 58-8020-8-009. Jason Oliver (PI), Karla Addesso (Co-PI), Anthony Witcher (Co-PI), **Fulya Baysal-Gurel (Co-PI)** and Lisa Alexander (Co-PI).Methods for quarantine certification and biological control of imported fire ant in nursery production systems. 2018-2023. $40,698.

USDA-ARS Floriculture and Nursery Research Initiative Supplement to Cooperative Agreement No. 58-5082-8-016. Jason Oliver (PI), Karla Addesso (Co-PI), **Fulya Baysal-Gurel (Co-PI)** and Chris Ranger (Co-PI).Development of applied strategies to prevent exotic ambrosia beetle damage in ornamental nurseries. 2018-2020. $38,760.

USDA-NIFA-IR4- P005699. **Fulya Baysal-Gurel (PI).** IR-4 New disease products foliar and soil. 2018-2019. $17,500.

USDA-NIFA SSARE Research and Education Grant. Karla M. Addesso (PI), **Fulya Baysal-Gurel (Co-PI)** and Anthony Witcher (Co-PI). Cover crops in woody ornamental production: impact on plant growth, arthropod pests, soil-borne pathogens and weeds. 2018-2021. $284,869.

USDA-NIFA SSARE-2018 On Farm Grant. USDA-NIFA 2017-38640-26914 RD309-144/S001650. **Fulya Baysal-Gurel (PI).** Biofumigants for sustainable soil-borne disease management in nursery production. 2018-2020. $15,000.

Tennessee Department of Agriculture SOD Agreement. TDA- 32505-00718. **Fulya Baysal-Gurel (PI).** 2017-2022. $10,000.

Tennessee Department of Agriculture Specialty Crop Block Grant. USDA-AMS-TM-SCBGP-G-17-003 Edison Supplier ID 2097. **Fulya Baysal-Gurel (PI).** Enhancing the prevention of boxwood diseases in Tennessee nursery production. 2017-2020. $23,861.

USDA-NIFA-IR4. USDA-NIFA- prime award 2015-34383-27029. **Fulya Baysal-Gurel (PI).** IR-4 Ornamental Project-New disease products foliar and soil. 2017-2018. $19,500.

TUBITAK and Cukurova University, TURKEY. **Fulya Baysal-Gurel (PI).** Identification and Management of Diseases and Pests of Ornamental Crops Workshop. 2017. $5,000.

ASCFG Research Foundation. **Fulya Baysal-Gurel (PI).** Post-harvest disease of zinnia: A new threat to cut flower production. 2017-2018. $5,000.

HRI. HRI-22762040. **Fulya Baysal-Gurel (PI).** Improved sanitation/hygiene practices in nursery crop production. 2017-2018. $11,800.

USDA-NIFA- SCRI Planning Grant Program. Cristi Palmer (PI), **Fulya Baysal-Gurel (Co-PI),** et al. Identifying knowledge gaps and novel management strategies for downy mildews impacting environmental horticulture crops. 2016-2017. $50,000.

USDA-NIFA-IR4. USDA-NIFA- prime award 2015-34383-23710. **Fulya Baysal-Gurel (PI).** IR-4 Ornamental Regional Project-Algal leaf spot. 2016-2017. $12,000.

USDA-NIFA-IR4. USDA-NIFA- prime award 2015-34383-23710. **Fulya Baysal-Gurel (PI).** IR-4 Ornamental Project-New disease products foliar and soil pathogens. 2016-2017. $5,000.

USDA-NIFA- SSARE-2016 Graduate Student Grant. **Fulya Baysal-Gurel (PI)** and Prabha Liyanapathiranage.Sustainable management of soil-borne diseases in nursery production. 2016-2018. $11,000.

Tennessee Department of Agriculture Specialty Crop Block Grant. USDA-AMS-TM-SCBGP-G-16-0003 Edison Supplier ID 52191. **Fulya Baysal-Gurel (PI).** Enhancing the prevention and sustainable management of Phytophthora disease in Tennessee nursery production. 2016-2019. $30,307.48.

USDA-NIFA Evans-Allen Program. TENX-1520-CCOCP. **Fulya Baysal-Gurel (PI).** Improving productivity and soil-borne disease control in nursery crop production. 2015-2018. $21,000.

**INDUSTRY GIFTS (last 5 years)**

Researches on woody ornamental diseases supported by industrial partners. **Fulya Baysal-Gurel (PI).** $291,475

# **TEACHING EXPERIENCE AND TRAINING**

**Teaching and Workshops**

**Graduate Courses**

TSU Independent Study of Contemporary Issues AGSC5350: Plant Diseases, Diagnosis and Their Management. Summer 2020- June 4-August 6, 2020 Instructor: Fulya Baysal-Gurel.

**Guest Lecturer**

Landscape Horticulture (AGHT 3400), Dr. Doug Airhardt. Tennessee Tech University Ornamental Disease Management, Mar 18, 2019.

Plant Disease Diagnosis PP5685, Management of vegetable diseases, 12 May 2014 (Guest Lecturer).

Fruit and Vegetable Diseases PP5150, Vegetable diseases, 2012 (Guest Lecturer).

Plant Pathology PP615.01, Management of vegetable diseases in greenhouses and high tunnels, 18 January 2011 (Guest Lecturer).

Plant Pathology PP615.01, Management of Vegetable Diseases in Greenhouses and High Tunnels. 29 January 2009 (Guest lecturer).

**Workshops and Trainings**

Plants get sick, too! 2020 TSU College of Agriculture Virtual Apprenticeship Program. Online- June 17, 2020.

2020 Tennessee Warren County Master Gardener Class. McMinnville, TN. March 3, 2020.

Climate change workshop series. Murfreesboro and Jackson, TN. January and March 2020.

Diseases of Trees- Carroll County 4-H forestry teams. SUNRC- McMinnville, TN. October 8, 2019.

Junior Master Gardener Daycamp. June 18, 2019. McMinnville, TN.

2019 Tennessee Warren County Master Gardener Class. March 19, 2019. McMinnville, TN.

A fungus among us. Junior Master Gardener Camp, McMinnville, TN, June 16, 2017 (instructor).

Identification and management of diseases and pests of ornamental crops workshop. Cukurova University, Adana, Turkey, 11-14 April, 2017 (organizer and instructor).

2017 Tennessee Warren County Master Gardener Class. McMinnville, TN. January 17, 2017.

TSU Diagnostics workshop between August 10-19, 2016 for TSU graduate students, TSU staff, USDA staff and TDA employee (organizer and instructor).

TSU Preparing a Quality Scientific Poster for Professional Meetings & Competitions. July 8th, 2016, noon-1 pm.

Diseases of trees- Shelby and Williamson Counties 4-H group, McMinnville, TN, May 2, 2016.

2016 Tennessee Warren County Master gardener classes. TSUNRC, McMinnville, TN, February 2, 2016.

Diseases of trees- Williamson Co. 4-H group, McMinnville, TN, August 14, 2015.

SARE-sponsored In-Service Education workshop on “*Sustainable Management of Soil-Borne Diseases and Weeds*” June 4-5, 2013, Lincoln University, Jefferson City, Missouri (Instructor).

Plant Disease Diagnostic Workshop in Kyrgyzstan. Bishkek, Kyrgyzstan. May 6-8, 2013. Funded by The APS Office of International Programs Global Experience (Coordinator and Instructor).

IPM CRSP Southeast Asia Regional Program, Plant Disease and diagnostic. 22-23 July 2010, Bogor, West Java, Indonesia (Coordinator and instructor).

Pest and disease diagnostics for international trade and food security an international short course. 2008-2014, Wooster, OH (Instructor).

IPM-CRSP USAID International Plant Diagnostic Network (IPDN) Workshop August 26 - September 8, 2007. Wooster, OH (Instructor).

**Webinar**

Sanitation and disease management. AmericanHort. 2018.

**Seminar**

Sanitation for Plant Disease Management, TSU Departmental Seminar Nashville, TN. October 18, 2018.

Biofumigation: Opportunities and challenges for control of soilborne diseases in nursery production. University of Georgia, Athens, GA. Aug 27, 2018.

Fungicide resistance management. TSU Departmental seminar. Nashville, TN. November 16, 2017.

System approach on disease management. Cukurova University, Adana, Turkey, April 10, 2017.

Diseases of woody ornamentals in nursery production systems. Cukurova University, Adana, Turkey, December 30, 2015.

Developing advanced research tools strengthens plant disease management. University of Tennessee, Knoxville, TN, September 4, 2015.

**GRADUATE/UNDERGRADUATE STUDENT MENTORSHIP**

**Masters Research Mentor**

Krishna Neupane, MS Student (**advisor**), Sustainable management of *Phytophthora cinnamomi* and ambrosia beetles under stress conditions. Tennessee State University. 2019-2021.

Ravi Bika, MS Student (**advisor**), Integration of sanitation practices and fungicide applications for assuring better post-harvest shelf life of cut-flowers and greenery. Tennessee State University. 2018-2020.

Milan Panth, MS Student (**advisor**), Sustainable approaches to the management of soilborne diseases in nursery production. Tennessee State University. 2018-2020.

Samuel Hassler, MS Student (advisor), Improving nursery production using unmanned aircraft system technology. Tennessee State University. 2019-2020.

Mary Holden, MS Student (**advisor**),Improving boxwood disease management in Tennessee nursery production. Tennessee State University. 2018-2019.

Jill Mullican, MS Student (**advisor**),Tennessee State University. January- April 2018.

Prabha Liyanapathiranage, MS Student (**advisor**), Sustainable management of soilborne diseases in nursery production. Tennessee State University. 2015-2017.

Claudia Curry, MS Student (**advisor**),Tennessee State University. August 2015-January 2016.

Isha Poudel, MS Student (**committee member**), Weed control in nursery crop cutting propagation. Tennessee State University. 2019-2021.

Victoria Deren, MS Student (**committee member**), Simultaneously applied microbial pesticides: interactions and their impact on pathogens and arthropod pests. Tennessee State University. 2018-2020.

Vivek Ojha, MS Student (**committee member**),Ambrosia beetle management in nurseries. Tennessee State University. 2018-2020.

Matt Brown, MS Student (**committee member**), Reducing nursery tree attractiveness to ambrosia beetles (Coleoptera: Scolytinae) by using stress-mitigating fungicides to target biotic (Phytophthora root rot disease) and abiotic (flood stress) factors. Tennessee State University. 2016-2018.

Sujan Dawadi, Masters Student (**committee member**), Cover crop usage for pest management in red maple (*Acer rubrum*) tree production systems. Tennessee State University. 2015-2017.

Manoj Pandey, Masters Student (**committee member**), Relationships among red and black imported fire ant and their hybrid with biological control agents, ant size, and geographic location with supplemental studies to manage fire ants and improve collection of biological control agents. Tennessee State University. 2015-2017.

**PhD Research Mentor**

Madhav Parajuli, PhD student (**advisor**), Improving Nursery Production Using Unmanned Aircraft System (UAS) Technology. Tennessee State University. 2020-2023.

Bhawana Ghimire, PhD student (**advisor**), Improving boxwood blight mitigation through innovation, economic analysis and education. Tennessee State University. 2020-2023.

Sandhya Neupane, PhD student (**advisor**),Improving nursery production using sustainable approaches. Tennessee State University. 2019-2022.

Niamul Kabir, PhD Student (**advisor**), Enhancing the detection process, prevention and sustainable management of soilborne diseases in Tennessee nursery production. Tennessee State University. 2015-2018.

Cansu Oksel, PhD Student (**committee member**), The characterization and multilocus analysis of bacterial pathogens from Turkey. Namik Kemal University, Turkey. 2016-2020.

**Undergraduate Research Mentor**

Nealie West, Undergraduate student intern, IR-4 trials. Summer 2019. Motlow Community College.

Abigail Mathis, Undergraduate student intern, IR-4 trials. Summer 2019. University of Tennessee.

Chasity A. Phillips, Undergraduate student intern, Fire blight trials. Summer 2019. Tennessee Tech University.

Samuel Hassler, Undergraduate student intern, UAV usage. Summer 2019. Tennessee Tech University.

Chasity A Phillips, Undergraduate student intern, Fire blight trials. Summer 2018. Tennessee Tech University.

Hana Masters, Undergraduate student intern, Rose downy mildew trials. Summer 2018. Tennessee Tech University.

Jasmine Gunter, Undergraduate student intern, Powdery mildew trials. Summer 2018. Tennessee Tech University.

Mary Holden, Undergraduate student intern, Abiotic disorders of boxwood. Summer 2018. Tennessee Tech University.

Anna L Fancher, Undergraduate student intern, Evaluation of products for the management of fireblight on container-grown flowering crabapples. Summer 2017. Tennessee Tech University.

Mickayla Turner, Undergraduate student intern, Evaluation of fungicides for the control of Cercospora leaf spot of crapemyrtle. Summer 2017. University of Tennessee.

**Thesis**

Panth, M. Sustainable Approaches to the Management of Soilborne Diseases in Nursery Production. MS Thesis. Nashville, TN. 06/24/2020. (Major advisor: Fulya Baysal-Gurel)

Kabir, N. Enhancing the detection process, prevention and sustainable management of soilborne diseases in Tennessee nursery production. PhD Thesis. Nashville, TN. 12/08/2018. (Major advisor: Fulya Baysal-Gurel)

Liyanapathiranage, P. Sustainable management of soilborne diseases in nursery production. MS Thesis. Nashville, TN. 12/09/2017. (Major advisor: Fulya Baysal-Gurel)

Brown, M. Prevention of ambrosia beetles and phytophthora root rot with stress-mitigating fungicides. MS Thesis. Nashville, TN. 12/08/2018. (Co-advisor: Fulya Baysal-Gurel)

Pandey, M. Imported fire ant species and their hybrid in Tennessee: Interrelationships with biological control agents, ant morphology, and geographic locations. MS Thesis. Nashville, TN. 12/09/2017. (Co-advisor: Fulya Baysal-Gurel)

Dawadi, S. Cover crop usage for pest management in red maple (*Acer rubrum*) tree production systems. MS Thesis. Nashville, TN. 12/09/2017. (Co-advisor: Fulya Baysal-Gurel)

**AWARD OR RECOGNITION OF GRADUATE STUDENTS**

Sandhya Neupane. 2020. The **S-APS meeting first place in poster presentation** in Charleston, SC ($100).

Cansu Oksel. 2020. The **S-APS meeting third place in poster presentation** in Charleston, SC ($50) (Co-Advisor).

Ravi Bika. 2020. The **S-APS meeting honorarium in oral competition** in Charleston, SC ($100).

Milan Panth. 2020. The **S-APS meeting travel award** in Charleston, SC ($400).

Ravi Bika. 2020. The **S-APS meeting travel award** in Charleston, SC ($400).

Milan Panth. 2020 Bryson L. James Student Research Competition **3rd place at SNA Research Symposium** in M.S. student category ($200).

Ravi Bika. 2020 Bryson L. James Student Research Competition **1st place at SNA Research Symposium** in M.S. student category ($500).

Vivek Ojha. 2020. **SNA research symposium travel award** in Baltimore, MD ($300) (Co-Advisor).

Cansu Oksel. 2020. **SNA research symposium travel award** in Baltimore, MD ($300) (Co-Advisor).

Sandhya Neupane. 2020. **SNA research symposium travel award** in Baltimore, MD ($300).

Ravi Bika. 2020. **SNA research symposium travel award** in Baltimore, MD ($300).

Milan Panth. 2020. **SNA research symposium travel award** in Baltimore, MD ($300).

Victoria Deren. 2019. The Tennessee Entomological Society’s 2019 Graduate Student Paper Competition. **First Place Oral Presentation**. Nashville, TN ($200) (Co-Advisor).

Christina Jennings. 2019. The Tennessee Academy of Science Annual Meeting in Agriculture- Poster presentation session **Third Place Poster Presentation**. Columbia State University.

Sandhya Neupane. 2019. The Tennessee Academy of Science Annual Meeting in Agriculture- Poster presentation session **Second Place Poster Presentation**. Columbia State University.

Milan Panth. 2019. The Tennessee Academy of Science Annual Meeting in Agriculture- Plants and Pest Management oral presentation session **Second Place Oral Presentation**. Columbia State University.

Ravi Bika. 2019. The Tennessee Academy of Science Annual Meeting in Agriculture- Plants and Pest Management oral presentation session **Third Place Oral Presentation**. Columbia State University.

Mary Holden2019. **Second Place Oral presentation.** Association of Research Directors, Inc. 19th Biennial Research Symposium. Jacksonville, FL.

Milan Panth. 2018. TSU **OIA Book Scholarship Award**. Nashville, TN ($250).

Matthew Brown. 2018. **Second Place Student Research Competition** Southern Nursery Association Bryson L. James Student Research Competition, M.S. category. Baltimore, Maryland ($300) (Co-advisor).

Md Niamul Kabir.2018. **Second Place Student Research Competition** Southern Nursery Association Bryson L. James Student Research Competition, Ph.D. category. Baltimore, Maryland ($300).

Prabha Liyanapathiranage. 2018. **SSARE travel award.** Our Farms, Our Future Conference. Apr 3-5, 2018. St. Louis, Missouri (All travel expenses).

Prabha Liyanapathiranage.2017. **First Place Poster Presentation** Graduate science category at 39th Annual University-Wide Research Symposium. Tennessee State University, Nashville, Tennessee.

Prabha Liyanapathiranage. **2017 APS Janell M. Stevens Johnk Student Travel Award**, San Antonio, TX ($500).

Md Niamul Kabir.2016. **Third Place Oral Presentation** Oral presentation in Agriculture, 126th meeting of the Tennessee Academy of Science. Austin Peay State University, Clarksville, Tennessee.

Md Niamul Kabir. **2016. Outstanding Ph.D. Graduate Student** College of Agriculture, Human and Natural Sciences, Tennessee State University, Nashville, Tennessee.

**Student demonstrated a grantsmanship through a successfully funded proposal**

Krishna Neupane and Fulya Baysal-Gurel. Sustainable management of *Phytophthora cinnamomi* and ambrosia beetles under stress conditions. SSARE-2020 Graduate Student Grant Proposal. $16,335 (Funded).

Cansu Oksel and Fulya Baysal-Gurel. The characterization and multilocus sequence analysis (MLSA) of cherry bacterial pathogens - *Pseudomonas syringae* pv. *syringae* and *P. syringae* pv. *morsprunorum.* TUBITAK-TURKEY. $10,800 + airfare (Funded).

Prabha Liyanathianage and Fulya Baysal-Gurel. Sustainable Management of Soil-borne Diseases in Nursery Production. SSARE-2016 Graduate Student Grant Proposal. $11,000 (Funded).

**POST-DOCTORAL RESEARCHER MENTORSHIP**

Farhat Avin. August 2019-present.

**PROFESSIONAL ACTIVITIES**

**Membership**

American Phytopathological Society

Southern Division of American Phytopathological Society

American Society for Horticultural Science

International Society for Horticultural Science

Turkish Phytopathological Society, Turkey

Turkish Biocontrol committe, Turkey

Middle Tennessee Nursery Association

**Editorial SERVICE**

Plant Disease 2020-present Senior editor

PhytoFrontiers™ Journal 2020-present Editor

Canadian Journal of Plant Pathology 2019-present Associate Editor

Archives of Phytopathology and

Plant Protection 2018-present Editor

Phytopathology 2018-present Associate Editor

SNA Research Conference-

The Pathology and Nematology section 2017-present Section Editor

Plant Disease Management Reports2015-presentSection Editor

Academic Journal Magazine,

University of Ordu,

Faculty of Agriculture, Ordu, TURKEY 2015-present Advisory board

**ACADEMIC AND PROFESSIONAL SERVICE**

2020-present Serving as Senior Editor for Plant Disease Journal.

2020-present Serving as Editor for PhytoFrontiers™ Journal.

2020-present Serving as the Southern Division of the APS President elect.

2019- present Serving as the Southern Division of the APS Vice President.

2019-present Serving as Editor for Canadian Journal of Plant Pathology Journal.

2019-present Serving on the Flatheaded borer working group.

2019-present Serving on the Ambrosia beetle working group.

2018-present Serving as Editor for Archives of Phytopathology and Plant Protection Journal.

2018-present Serving as Associate editor for Phytopathology Journal.

2018-present Serving on the APS- Office of International Programs (OIP) as a member.

2018-present Serving on the Multistate Research project-S1083 as member.

2017-present Serving on the APS Office of Public Relations and Outreach as a member.

2017-present Serving on the APS Career101 Taskforce as a member.

2017-present Serving as TSU/ College of Agriculture Graduate student committee member

2018-present Serving as TSU/College of Agriculture Seminar committee member

2016-2018 Serving as TSU/College of Agriculture Lab safety committee member

2017-2020 Serving as editor of the Pathology and Nematology section for SNA Research Conference.

2015-present Serving on the PDMR Editorial board as section editor and assigning editor for ornamentals and trees.

2016- present Serving on the Southern Nursery Integrated Pest Management (SNIPM) working group.

2018-present Serving on the APS Diseases of Ornamental Plants Committee as a member.

2017-2018 Serving on the APS Diseases of Ornamental Plants Committee as immediate past chair.

2016-2017 Serving on the APS Diseases of Ornamental Plants Committee as chair.

2015-2016 Serving on the APS Diseases of Ornamental Plants Committee as vice chair.

2016-2017 Serving on the Multistate Research project-S1053 as chair.

2015-2016 Serving on the Multistate Research project-S1053 as secretary.

2010-2019 Serving on the APS Diagnostic committee as a member.

2010-2017 Serving on the APS Integrated Plant Disease Management committee as a member.

2010-present Serving on the APS Plant Pathogen and Disease Detection committee as a member.

Reviewer of manuscripts for Plant Disease, Phytopathology, Plant Health Progress, Canadian Journal of Plant Pathology, Crop Protection, HortTech, HortSci, Applied Soil Ecology, Biocatalysis and Agricultural Biotechnology, Forests, Agriculture, Agronomy, Remote Sensing, European Journal of Plant Pathology, Archives of Phytopathology and Plant Protection, eOrganic.

**JURIED NATIONAL AND INTERNATIONAL PERFORMANCES AND EXHIBITIONS**

Organizer for 2020 S-APS Student Competition (Travel award, Oral and Poster competitions), Charleston, SC.

Judge for 2019 S-APS Student Competition, Gainessville, FL

Judge for 2019 College of Agriculture Outstanding Graduate Student Mentor Award

Judge for 2018 S-APS Student Competition, Fayetteville, AR

Judge for 2018 College of Agriculrure Early Career Faculty Award

Judge for 2018 College of Agriculrure Outstanding Faculty Award

Judge for 2018 College of Agriculrure Outstanding Graduate Student Award

Judge for 2017 ARD research Symposium Student Competition, Atlanta, GA

Judge for SNA 2016 Bryson L. James Student Competition (PhD), Athens, GA

Judge for the APS 2016 Travel Grant Award. 03/28/2016

Judge for OSU Soil biology symposium poster competition, Stillwater, OK, 12/05/2015

**GRANT PANEL REVIEWER/PANELIST**

* NIFA-USDA Crop Protection and Pest Management (CPPM), Applied Research and Development Program (ARDP) panel, August 2020
* NIFA-USDA Methyl Bromide Transition (MBT) panel, July 2020
* HRI Competitive Grants in Science Review Panel, July 2020
* S-SARE On-Farm Research Grant panel, January 2020
* S-SARE Research and Extension Grant Full Proposal Review, January 2020
* NIFA-USDA Crop Protection and Pest Management (CPPM), Applied Research and Development Program (ARDP) panel, August 2019
* HRI Competitive Grants in Science Review Panel, August 2019
* S-SARE On-Farm Research Grant panel, January 2019
* S-SARE Research and Extension Grant Full Proposal Review, January 2019
* NIFA-USDA Crop Protection and Pest Management (CPPM), Applied Research and Development Program (ARDP) panel, August 2018
* HRI Competitive Grants in Science Review Panel, July 2018
* S-SARE Graduate student grant panel, June 2018
* NIFA-USDA Small Business Innovation Research Program Plant Production and Protection-Engineering Panel, May 2018
* S-SARE Research and Extension Grant Full Proposal Review, January 2018
* BARD - Binational Agricultural Research and Development Fund US-Israel proposal Review, January 2018
* HRI Competitive Grants in Science Review Panel, July 2017
* NIFA-USDA Crop Protection and Pest Management (CPPM), Applied Research and Development Program (ARDP) and Methyl Bromide Transition (MBT) panels, July 2017
* S-SARE Graduate student grant panel, May 2017
* SSARE On-Farm Research Grant panel, November 2016
* HRI Competitive Grants in Science Review Panel, July 2016
* Southern Regional IPM Grant Review Panel, January 2011