



TAGEM
R&D AND INNOVATION

Directorate of Plant Protection Central
Research Institute/ ANKARA

BURCU İNAL, PhD ENTOMOLOGIST

EDUCATION

- PhD** Ankara University
2018 Natural and Applied Sciences Institute,
Plant Protection Department
- MSc** Ondokuzmayıs University
2005 Plant Protection Department
- Bachelor's Degree** Ondokuzmayıs University
2002 Faculty of Agriculture, Plant
Protection Department
- LANGUAGE** English YDS 81/ YÖKDİL 87.5

CAREER

- 2011-** Directorate of Plant Protection Central
Research Institute, ANKARA


ABOUT ME

After graduating from Ondokuzmayıs University, Faculty of Agriculture, Department of Plant Protection in 2002, She completed her master's thesis titled "Faunistic Studies on Mite (Acarina) Species in Various Crop Plants of Bafra and Çarşamba Plains" at the same university. In 2018, she accomplished her doctoral study titled "Determination of Genetic Variation and Endosymbionts in Different Populations of Cherry Black Aphid, *Myzus cerasi* (Fabricus, 1775) (Hemiptera: Aphididae)" at the Natural and Applied Sciences Institute in Ankara University. She started to work as an engineer at the Directorate of Plant Protection Central Research Institute in 2011 and still holds the same position in the fruit-vineyard pests unit.

CONTACT

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▪ **PROJECTS**

▪ **Projects Conducted**

1. Determination of natural enemies together with biological criteria for the control of black cherry aphid, *Myzus cerasi* (Fabricus, 1775) (Hemiptera:Aphididae) and molecular phylogenetic analysis of the variation in its different populations.
2. Determination of leaf mining moths (Lepidoptera: Gracillariidae, Lyonetiidae) and their natural enemies in cherry orchards of Sultandağı Basin, the biology and the biotechnical control of the important pest species.
3. Determination of distribution, biology and natural enemies of apple rust mite, *Aculus schlechtendali* Nalepa, 1892 (Acarina: Eriophyidae) in apple orchards of middle Anatolian region.

▪ **Ongoing Projects**

Determination of the population genetic parameters influencing Mediterranean fruit fly, *Ceratitis capitata* (Wiedemann,1824) (Diptera:Tephritidae) sterile insect technique.



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▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in International Journals**

- 1. İnal B., Özdem A., 2021. *Oarius grisescens* (Coleoptera: Curculionidae, Entiminae), a new pest of *Prunus armeniaca* in Turkey . Journal of Global Innovations in Agricultural Sciences, 9(3):97-100.
- 2. İnal B., Kandemir İ., 2020. DNA Barcoding of Black cherry aphid *Myzus cerasi* (Fabricus, 1775) (Hemiptera: Aphididae) populations collected from *Prunus avium* and *Prunus cerasus*. Turkish Journal of Zoology, 44, 146-155.

▪ **International Papers, Seminars, etc.**

- 1. İnal B., Kandemir İ., Balcı H. M., Karaca İ., Özdem A., 2023. Assessment of Mediterranean fruit fly population genetics for effective sterile insect technique (SIT) application in Türkiye. XII. European Congress of Entomology, 16-20 October 2023, Heraklion, Crete, Greece.
- 2. İnal B., Kandemir İ., Gürkan M. O., 2023. Diversity of predators, parasitoids, hyperparasitoids and endosymbiotic bacteria of the black cherry aphid, *Myzus cerasi* (Fabricus) (Hemiptera: Aphididae) in Türkiye. XII. European Congress of Entomology, 16-20 October 2023, Heraklion, Crete, Greece.
- 3. İnal B., Kandemir İ., Gürkan O., 2019. Does DNA barcoding provide host specificity for Black cherry aphid *Myzus cerasi* (Fabricus, 1775) (Hemiptera: Aphididae) ?. 1st International Molecular Plant Protection Congress Adana TURKEY - April 10-13 2019.
- 4. İnal B., Kandemir İ., Gürkan O., 2018. Haplotype Diversity of the black cherry aphid *Myzus cerasi* (Fabricus, 1775) (Hemiptera:Aphididae) based on the mitochondrial cytochrome oxidase I sequence. XI. European Congress of Entomology, 2-6 July 2018, NAPOLI, ITALY, P. 89.
- 5. İnal B., Diler H., 2018. Tetranychid and phytoseiid mites associated with diverse crops from Samsun, Turkey. 7th Plant Protection Congress with International Participation, 14-17 November 2018, Mugla, Turkey, p. 249.
- 6. Diler H., İnal B., 2017. Predatory mite species in apple orchards infested with apple rust mite. 2nd International Balkan Agriculture Congress, 16-18 May 2017, Tekirdağ/Turkey, p.124.
- 7. İnal B., Diler H., 2017. Eriophyoid mites on different crops in Samsun province. 2nd International Balkan Agriculture Congress, 16-18 May 2017, Tekirdağ/Turkey, p. 123.
- 8. İnal B., Özdem A., 2016. *Omaloquia spireae spireae* (Pallas) (Coleoptera:Scarabaeidae), a New Pest of Grapevine (*Vitis vinifera* L.) in Turkey. 6th Plant Protection Congress with International Participation, September 5-8, 2016, Konya/Turkey.



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- 9. Diler H., İnal B., 2016. Determination of Population Density and Infection Rate of Apple Rust Mite (*Aculus schlechtendali* (Nalepa, 1892) (Acarina: Eriophyidae)) in Apple Orchards.. 6th Plant Protection Congress with International Participation, 5-8 September 2016 Konya, Turkey.
- 10. İnal B., Gürkan O., 2016. Predators and Parasitoids of Black Cherry Aphid, *Myzus cerasi* (Fabricus) (Hemiptera: Aphididae) Collected From Different Parts of Turkey . 6th Plant Protection Congress with International Participation, September 5-8, 2016, Konya/Turkey.
- 11. İnal B., Alkan M., 2015. Facultative endosymbionts: defense against entomopathogens. 5th Entomopathogens and Microbial Control Congress, 09-11 September 2015, Ankara/Turkey.
- 12. İnal B., Alkan M., 2015. Abiotic and biotic factors influencing control potentiality of entomopathogens. 5th Entomopathogens and Microbial Control Congress, 09-11 September 2015, Ankara/Turkey.
- **OTHER PUBLICATIONS**
- **Ph.D. Thesis, Master Thesis, Reports, Books etc.**

Ph.D Thesis: Determination of Genetic Variation and Endosymbionts in Different Populations of Black Cherry Aphid, *Myzus cerasi* (Fabricus) (Hemiptera: Aphididae). Natural and Applied Sciences Institute, Ankara University, 2018.



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▪ Membership, Training, Course, Meeting, Congress, Symposium and Other Activities

- XI. European Congress of Entomology, 2-6 July 2018, NAPOLI, ITALY.
- TAIEX Workshop on Technical and scientific review procedures and files for plant protection products, 27th-30th of September 2021.
- Biological and Biotechnical Control Workshop with International Participation, 16-18 May 2022, Adana, Türkiye.
- XII. European Congress of Entomology, 16-20 October 2023, Heraklion, Crete, Greece.