



TAGEM
R&D AND INNOVATION

DIRECTORATE OF PLANT PROTECTION CENTRAL
RESEARCH INSTITUTE/ ANKARA

Duygu DEMİRÖZ, MSc Agricultural Engineer

EDUCATION

- PhD**
2014- Bursa Uludağ University Institute of Science Plant Protection Department
 - MSc**
2004-2008 Ankara University Institute of Science Plant Protection Department
 - Bachelor's Degree**
2000-2004 Ankara University Faculty of Agriculture
- LANGUAGE** English YDS 57.8

CAREER

- 2011-Present Engineer, Directorate of Plant Protection Central Research Institute-ANKARA

ABOUT ME

She was born in Ankara. She graduated from Ankara University, Faculty of Agriculture, Department of Plant Protection in 2004. In 2008, she completed her master's degree in Ankara University, Institute of Science and Technology, Department of Plant Protection. In 2014, she started her PhD in Bursa Uludağ University Institute of Natural and Applied Sciences, Department of Plant Protection.

She has been working on toxicology, ecotoxicology and insecticide resistance in pests in the Department of Physiology and Toxicology since 2011.

CONTACT

Plant Protection Central Research Institute Directorate Gayret District. Fatih Sultan Mehmet Boulevard. No: 66, 06172 Yenimahalle / ANKARA TÜRKİYE

duygu.demiroz@tarimorman.gov.tr

0312 344 59 93 / 1407



Duygu DEMİRÖZ, MSc Agricultural Engineer



▪ **PROJECTS**

▪ **Projects Conducted**

1. Investigation of Resistance Status and Mechanisms of *Myzus persicae* [(Sulzer) (Hemiptera: Aphididae)] Populations Damaged in Greenhouse Vegetable Production Areas in Antalya Province against Insecticide Mixtures of Neonicotinoid and Synthetic Pyrethroid. (Project leader)
2. Determination Of The Sensitivity Of Early Leaf Blight (*Alternaria* spp.) In Tomato To Some Fungicides. (Researcher)
3. Determination of Fungicide Resistance in Gray Mold (*Botrytis cinerea* Pers.) which Causes Disease in Tomatoes Greenhouses of Antalya by Using Microtiter test and Molecular Methods. (Researcher)
4. Characterization Of Insecticide Resistance In Tomato Leafminer, *Tuta absoluta* (Lepidoptera: Gelechiidae), Identification Candidate Genes Involved in Metabolic Resistance and Investigation of Insecticide Mixtures in Resistance Management. (Researcher)
5. Determination of Resistance Level and Mechanisms of Twospotted spider mite, *Tetranychus urticae* Koch) (Acarina : Tetranychidae) Populations Damaged in Greenhouse Vegetable Production Areas in Antalya Province. (Researcher)
6. Investigation of the Feasibility of Toxicological Tests of Pesticides under Glp Conditions (Researcher)

▪ **Ongoing Projects**

1. Research of Resistance of Western Flower Thrips, *Frankliniella occidentalis* (Pergande) (Thysanoptera: Thripidae) Populations to Different Insecticide Groups (Project leader)
2. Mass Production of *Bacillus thuringiensis* var. *kurstaki* HD73 Strain Used in Biological Control of the Tomato Leafminer (*Tuta absoluta*) (Meyrick) (Lepidoptera: Gelechiidae) through Optimization of Production Conditions and Preparation of Commercial Formulation. (Researcher)
3. Biopesticide Formulation Development (Researcher)



Duygu DEMİRÖZ, MSc Agricultural Engineer



■ PUBLICATIONS

■ INTERNATIONAL ARTICLES PAPERS

■ Articles Published in International Journals

■ International Papers, Seminars, etc.

1. Demiröz D., Aksu P., Yılmaz A., 2016. Evaluation of the Resistance of Aphid Populations to Insecticide Mixtures in Vegetable Production Areas. Turkey with International Participation VI. Plant Protection Congress, 5-8 September 2016, Konya, .

2. Demiröz D., Yılmaz A., Erdurmuş G., 2017 Bioassay Studies on Neonicotinoid and Synthetic Pyrethroid Insecticides of *Myzus persicae* [(Sulzer) (Hemiptera:Aphididae)] Populations Damaged in Antalya Province Greenhouse Vegetable Production Areas, Sivas 26-28 October 2017, Turkey.

3. Determination of Resistance to Azoxystrobin and Mancozebe in Tomato Early Blight Factor (*Alternaria alternata*). Central Anatolia Region 3rd Agriculture and Food Congress, 26-28 October 2017, Sivas Turkey

4. Erdurmuş G., Yılmaz A., Demiröz D., 2017. Determination of Resistance to Azoxystrobin and Mancozebe in Tomato Early Blight Factor (*Alternaria alternata*). Central Anatolia Region 3rd Agriculture and Food Congress, 26-28 October 2017, Sivas Turkey

5. Demiröz D., Yılmaz A., Erdurmuş G., 2018. Biochemical Studies, International Agriculture, Forestry and Food Science and Technologies Congress, 2-5 April 2018, Çeşme/İzmir Turkey

6. Erdurmuş G., Yılmaz A., Demiröz D., 2018. Mechanism of Infection of Gray Mold Disease Agent (*Botrytis cinerea* Pers.). International Agriculture, Forestry and Food Science and Technologies Congress, 2-5 April 2018, Çeşme/İzmir Turkey

7. Atış AE., Demiröz D., Yılmaz A., 2019. Diamide insecticide resistance in tomato leafminer, *Tuta absoluta* (Lepidoptera: Gelechiidae) from Antalya, Turkey (Poster-Abstract). 1st International Molecular Plant Protection Congress, April 10-13 2019, Adana Turkey.

8. Atış AE., Demiröz D., Yılmaz A., Özel E., Coşkun B., Ergül A., 2021. Changed Expression in Spinoso-Exposed Tomato Leaf Moth [*Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae)] Transcriptome Based Detection of Genes (Oral-Abstract). 8th Plant Protection Congress with International Participation, 24-28 August 2021, Bolu, Turkey.

9. Demiroz D., Kumral NA., IV. Balkan Agricultural Congress Research Of Resistance Of Western Flower Thrips, *Frankliniella occidentalis* (Pergande) (Thysanoptera: Thripidae) Populations to Different Insecticide Groups / 31 August – 02 September 2022, Edirne, Turkey



Duygu DEMİRÖZ, MSc Agricultural Engineer



▪ **OTHER PUBLICATIONS**

PhD. Thesis, Master Thesis, Reports, Books etc.

1. Black Rust Disease in Wheat (Master's End of Term Project).

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

1. Primary design for PCR based detection and diagnostics using Web-software, Agricultural Protection Central Research Institute, 15.6.2014
2. Real Time PCR and Application Techniques, Agricultural Protection Central Research Institute, 5.11.2019.
3. Expert Mission on Risk Assessment of Pesticide Residues, Ministry of Agriculture and Forestry (Turkey), TAIEX, Twining, 20.11.2019.
4. TAIEX Workshop on Technical and Scientific Review Procedures and Files for Plant Protection Products Online 27-30.9. 2021.
5. 4th Meeting of the 5th Annual Forum on Endocrine Disruptors 21-22 September 2022 (Online)