



**TAGEM**  
R&D AND INNOVATION

DIRECTORATE OF PLANT PROTECTION CENTRAL  
RESEARCH INSTITUTE/ANKARA

## SEVGİ COŞKAN, M.Sc. Agricultural Engineer

### EDUCATION

- PhD**  
2023- Ankara University  
Faculty of Agriculture
  - Master of Science**  
2015-2017 University of Florida  
College of Agricultural and Life Sciences
  - Bachelor's Degree**  
2005-2010 Adnan Menderes University  
Faculty of Agriculture
- LANGUAGE** English - YOKDIL 82.5/IELTS 7

### CAREER

- 2017- Researcher  
Directorate of Plant Protection Central Research  
Institute/Ankara

### ABOUT ME


I graduated with a bachelor's of Agricultural engineering-Plant Protection degree from Adnan Menderes University in 2010. In 2012, I participated in the scholarship program of the Ministry of National Education, based on Law No. 1416 on "Students to be Sent to Foreign Countries to train the qualified workforce needed by higher education institutions and other public institutions and organizations".

In 2017, I obtained my master's degree in Virology from the Department of Plant Pathology at the University of Florida.

### CONTACT

Gayret Mahallesi, Fatih Sultan Mehmet  
Bulvarı. No: 66, 06172 Yenimahalle/  
Ankara

 [sevgi.coskan@tarimorman.gov.tr](mailto:sevgi.coskan@tarimorman.gov.tr)

 0 312 344 59 93 -96



# SEVGİ COŞKAN, M.Sc.

## Agricultural Engineer



### ■ **PROJECTS**

#### ■ **On-going Projects**

1. Sharka Disease in Bolu Province Free Area Declaration (Center, Seben, Göynük, Gerede, Mudurnu, Mengen, Yeniçağa, Dörtdivan, and Kırıcık Districts)- **(GKGM, TAGEM, Bolu Provincial Directorate of Agriculture and Forestry, 2020-2024, Researcher)**.
2. Investigation of Tomato brown rugose fruit virus (ToBRFV) on Greenhouse Tomato and Pepper Crops in Central Anatolia and Black Sea Region of Turkey, and Development of Molecular Diagnostic Protocols-(**TAGEM, 2021-2023, Project Leader**).
3. Ağlasun District of Burdur Province (Central Districts and Villages) for Sharka Disease (Plum pox virus-PPV) Free Area Declaration- (**TAGEM, GKGM, Burdur Provincial Directorate of Agriculture and Forestry, 2022, Researcher**).
4. Inventory and validation of quality control procedures for the extraction of nucleic acid used for diagnosis (**ZMMAE, EU- Eupresco, 2021-2023, Researcher**).
5. Afyonkarahisar Province (Center, Sandıklı, Shepherds) Tomato brown rugose fruit virus (ToBRFV) Survey/Free Area Declaration- (**GKGM, TAGEM, Afyonkarahisar Provincial Directorate of Agriculture and Forestry, 2021-2023, Project Leader**).
6. Pepino mosaic virus (PepMV), Tomato brown rugose fruit virus (ToBRFV), Tomato spotted wilt virus (TSWV)- Free Field Project in Zonguldak Province Center, Çaycuma, Gökçebey, Devrek, Alaplı, Ereğli, and Kozlu Districts- (**GKGM, TAGEM, Zonguldak Provincial Directorate of Agriculture and Forestry, 2022-2024, Project Leader**).
7. Establishment of Phytosanitary Microorganism Culture Collection and Preparation of Catalogue part-II- (**TAGEM, 2021-2025, Researcher**)
8. Generation of diagnostic kits of plant viruses and viroids with Real-time LAMP PCR master mix.- (**"TAGEM 2007/1" DOSA Information and Science Technologies, ZMMAE, 2022-2023, Researcher**).

?

#### ■ **Completed Projects**

1. Studies on the Generation of a Virus-Free Polycross Parcel in Alfalfa- (**TAGEM, 2017-2018, Researcher**).
2. Establishment of Phytosanitary Microorganism Culture Collection and Preparation of Catalogue part-II- (**TAGEM, 2017-2018, Researcher**).
3. Detection, Prevalence, Molecular Characterization of Tomato spotted wilt virus (TSWV) in Tomato, Pepper, and Lettuce Cultivating Areas of Central Anatolia Region and Determination of Resistance of Some Tomato Gene Sources to TSWV by Molecular Markers- (**TAGEM, 2017-2018, Researcher**).
4. Investigation of Resistance Sources Against Plum Pox Virus (PPV) Disease in Plum and Apricot Genotypes and Establishment of PPV Isolate Collection- (**TAGEM, 2017-2018, Researcher**).
5. Domestic RNA isolation kit production (**"TAGEM 2007/1" DiSES company-ZMMAE, 2021-2022, Researcher**).



**SEVGİ COŞKAN, M.Sc.**  
Agricultural Engineer



5. Geçit Bölgesi Dry Bean Breeding Studies- (**TAGEM, 2018-2022, Researcher**).
6. Plum pox virus (PPV)-Free Field Project in Zonguldak Province Center, Çaycuma, Gökçebey, Devrek, Alaplı, Ereğli and Kozlu Districts- (**GKGM, TAGEM, Zonguldak Provincial Directorate of Agriculture and Forestry, 2019-2022, Researcher**).
7. Inventory and validation of quality control procedures for the extraction of nucleic acid used for diagnosis (**"TAGEM 2007/1" DİSES company-ZMMAE, 2021-2022, Researcher**).
8. Obtaining Preliminary Production Material from New Hazelnut Varieties by Meristem Culture- (**TAGEM, 2020-2022, Researcher**).

■ **PUBLICATIONS**

■ **INTERNATIONAL ARTICLES AND PAPERS**

■ **Articles Published in International Journals**

1. Morca A.F., Çelik A., **Coskan S.**, Santosa A. I., Akbas B. 2022. Population analysis on tomato spotted wilt virus isolates inducing various symptoms on tomato, pepper, and Chenopodium album in Turkey. *Physiological and Molecular Plant Pathology*, 118 101786. <https://doi.org/10.1016/j.pmpp.2022.101786>
2. **Coşkan S.**, Morca A.F., Akbaş B., Çelik A., Santosa A. I. 2022. Comprehensive surveillance and population study on plum pox virus in Ankara Province of Turkey. *Journal of Plant Diseases and Protection*, 129: 981–991. <https://doi.org/10.1007/s41348-022-00597-5>
3. Morca, A.F., **Coskan, S.**, Akbas, B., Karahan, A. 2022. First report of alfalfa mosaic virus on *Petroselinum crispum* in Turkey. *Journal of Plant Pathology*, 104, (881-882). <https://doi.org/10.1007/s42161-022-01082-6>
4. Çelik, A., **Coşkan, S.**, Morca, A.F., Santosa, A. I., and Koolivand, D. 2022. Insight into Population Structure and Evolutionary Analysis of the Emerging Tomato Brown Rugose Fruit Virus. *Plants*, 11(23), 3279. <https://doi.org/10.3390/plants11233279>
5. Morca A.F., **Coskan S.**, Akbas B. 2021. Phylogenetic diversity of barley- and wheat-specific forms of Wheat dwarf virus in Turkey. *Cereal Research Communications*, 50:1029–1036. <https://doi.org/10.1007/s42976-021-00219-0>
6. Alcalá-Briseño, R. I., **Coşkan, S.**, Londoño, M. A., & Polston, J. E. (2017). Genome sequence of southern tomato virus in asymptomatic tomato 'Sweet Hearts'. *Genome Announcements*, 5(7), e01374-16. <https://doi.org/10.1128/genomeA.01374-16>



# SEVGİ COŞKAN, M.Sc.

## Agricultural Engineer



### ▪ NATIONAL ARTICLES AND PAPERS

#### ▪ Articles Published in National Journals

1. Morca A.F., Coşkan S., Akbaş, B. 2022. Detection, Characterization, and Monitoring of Plum pox virus in Zonguldak Province. KSU J. Agric Nat 25(6), 1369-1377. <https://doi.org/10.18016/ksutarimdog.vi.1015786>
2. Akbas B., **Morca A. F.**, Coskan S. 2022. Impact of Climate Change on Cereal Virus Diseases. Ziraat Mühendisliği, (374), 4-14. <https://doi.org/10.33724/zm.972677>
3. Akbas B., **Morca A. F.**, Coskan S. 2021. Historical Development and Importance of Grapevine Viruses for Turkish Vineyards. Bahçe, 50(2): 155-165.
4. Akbas B., **Morca A. F.**, Coskan S. 2021. Determination of Virus Diseases in Lettuce Production Areas of Ankara, Eskisehir, and Konya Provinces of Turkey. YYU Journal of Agricultural Science 31 (2): 387-395. <https://doi.org/10.29133/yyutbd.818644>
5. **Morca A. F.**, Coskan S., Çelik A. 2021. Determination of Plum pox virus and Molecular Characterization of Partial Coat Protein Gene in Burdur Province. KSU J. Agric Nat 24 (4): 805-814. <https://doi.org/10.18016/ksutarimdog.vi.767409>
6. **Morca A. F.**, Coskan S., Öncü F. 2020. Determination and partial molecular characterization of Plum pox virus in Bolu province. Plant Protection Bulletin, 60.4: 59-68.

### ▪ OTHER PUBLICATIONS

#### ▪ Ph.D. Thesis, Master Thesis, Reports, Books etc.

1. **Coşkan, S** and Morca, A.F. 2022. Maize Viral Diseases (In: Corn; Breeding Techniques and Breeding. Ed: Cengiz, R. 758 s.), 315-336 p. İksad Yayınevi, Ankara, Turkey. ISBN: 978-625-8377-26-2
2. Distribution and vertical transmission of Southern tomato virus in tomato (**Master's thesis, 2017**)

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

1. **Coşkan S.**, Morca A. F., Barış A., Tunç İ. 2019. Characterization of Thrips species as a vector of Tomato spotted wilt tospovirus (TSWV) in host plants in Turkey. 1. International Molecular Plant Protection Congress, 10-13 April ADANA, Program and Abstract Book, 64 p (**Oral presentation**).
2. Morca A. F., **Coskan S.**, Değirmenci K., Sönmez İ., 2019. The Assessment of tomato genetic sources resistance to Tomato spotted wilt tospovirus (TSWV) and its distribution and genetic diversity in Turkey. 1. International Molecular Plant Protection Congress, 10-13 April ADANA, 73 p.
3. American Phytopathological Society Annual Meeting, Tampa, FL. July 30<sup>th</sup> – August 3<sup>rd</sup> 2016, (**Poster presentation**).