



TAGEM
R&D AND INNOVATION

BLACK SEA AGRICULTURAL RESEARCH
INSTITUTE / SAMSUN

DR. DEMET ÇELİK ERTEKİN

Agricultural Engineer (MSc)

EDUCATION

- **Assoc. prof**
 - **PhD** 2011-2016 Gaziosmanpasa University
Institute of Science, Plant Protection
 - **MSc** 2008-2011 Gaziosmanpasa University
Institute of Science, Plant Protection
 - **Bachelor's Degree** 2004-2008 Gaziosmanpasa University
Faculty of Agriculture, Department of
Plant Protection
- LANGUAGE** English UDS 60

CAREER

- 2011- - Researcher – Black Sea Agricultural Research
Institute - SAMSUN
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ABOUT ME

She was born in 1988 in Turhal. In 2008, she graduated from Gaziosmanpasa University, Faculty of Agriculture, Department of Plant Protection. She completed masters education in 2011 and her doctorate in 2016 at Gaziosmanpasa University, Institute of Science, Department of Plant Protection.

She continues her studies on Plant Bacterial Diseases in the field of Phytopathology at the Black Sea Agricultural Research Institute.

CONTACT

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▪ **PROJECTS**

▪ **Projects Conducted**

1. Investigation of resistance situations in hybrid bean lines and determination bacterial Halo Blight (*Pseudomonas syringae* pv. *phaseolicola*) and Common Bacterial Blight (*Xanthomonas axonopodis* pv. *phaseoli*) of beans in important bean growing areas at Black Sea Region (Project Leader TAGEM 2012-2015).
2. Detection of phytoplasma diseases and possible vector species in vineyard areas of Black Sea Region with determination of measures to be taken (Project Leader TAGEM 2012-2016)
3. Detection of *Xylella fastidiosa* and its vectors on different hosts in the Black Sea Region and determination of disease control strategies based on risk management (Project Leader, TAGEM 2016-20209
4. The determination of natural enemies with the detection of disease, pest and weeds in Kiwi fruit orchard in Middle Black Sea Region (Responsible person, TAGEM 2014-2016).
5. The studies on the detection and control of diseases, pests, weeds of leafy vegetables in Middle Black Sea region (Responsible person TAGEM 2016-2018).
6. Molecular characterization of isolates *Candidatus* Phytoplasma mali and *Ca. P. pyri* that found in some areas where carried out intensive cultivation of apple pear in our country (Responsible person TAGEM 2014-2016)
7. Molecular characterization of isolates *Candidatus* Phytoplasma Prunorum and determination of virulence levels of *Ca. P. Mali*, *Ca. P. Piyri* ve *Ca. P. Prunorum* isolates in 16SrX group (Responsible person TAGEM 2014-2018) .
8. Investigation of activity of molecular markers to the bean bacterial diseases (Halo Blight and Common Bacterial Blight) (Responsible person TUBİTAK 1003, 2014-2016).
9. Generation Z are meeting with agriculture (Responsible person TUBİTAK 4004, 2015).
10. Generation Z are meeting with agriculture 2 (Responsible person TUBİTAK 4004, 2016).
11. Generation Z are meeting with agriculture 3 (Responsible person TUBİTAK 4004, 2017).
12. First Step to Soil-Samsun Governorship ARGE-Member of the Executive Board (2015-2016)

▪ **Ongoing Projects**

1. Detection of *Xylella fastidiosa* and its vectors on different hosts in the Black Sea Region and determination of Disease Control Strategies (2. Part)-TAGEM-Leader
2. Detection, Prevalence and Intensity of Diseases in Walnut Protection Areas of the Black Sea Region and Their Control-TAGEM-Responsible person
3. Determination of suitable carrier materials for some phosphorus soluble bacteria applied together with rock phosphate and effect of bread corn on yield in the field condition-TAGEM-Responsible person



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▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in International Journals**

1. Calis, O., Saygi, S., Celik, D. (2012). Molecular identification of bacterial canker and bacterial wilt diseases in tomatoes. *Bulgarian Journal of Agricultural Science* 18:682-688.
2. Calis, O., Bayan, Y., Celik, D. (2012). Characterization of resistant tomato mutants to bacterial canker disease. *African Journal of Biotechnology* 11:8070-8075.
3. Calis, O., Cekic, C., Kara S., Celik Ertekin, D., 2017. "Blackberry and raspberry are alternative resistance sources to fire blight", *Phytoprotection*, vol.97, no.1, pp.12-16.
4. Küçük, Ç., Cevheri, C., Özçelik, H., Ertekin, D., 2017. Determination of resistance of bean genotypes/lines to halo blight disease. *Jokull Journal*, ISSN: 0449-0576, Vol:66, No:6, Jun.

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

1. Kucuk C., Cevheri C., Ozcelik H. and Celik Ertekin D., (2015). Evaluation resistance of *X. phaseoli* and *P. phaseolicola* In *P. vulgaris* lines. 26th International Scientific-Expert Conference of Agriculture and Food Industry Congress. 27th-30th September p136, Bosnia and Hercegovina.

▪ **NATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in National Journals**

1. Calis, O. and Celik, D. (2011). Identification of Resistance and Sensitive Tomato Line to the Bacterial Spot Disease Factor (*Pseudomonas syringae* pv. tomato DC3000) in Culture Tomatoes. *Journal of Biology Science Research* 4:7-11.
2. Calis, O., Saygi, S., Celik, D., Bayan, Y. (2013). Tomato bacterial canker and wilt diseases and reverse genetics. *University of Mediterreanean, Journal of Faculty of Agriculture*. 26:5-10.
3. Çelik Ertekin, D., Çalış, Ö., Yanar, Y., 2021. Isolation and identification of *Pseudomonas savastanoi* pv. *phaseolicola* and *Xanthomonas axonopodis* pv. *phaseoli*'nin in Middle Black Sea Region of Turkey. *Mediterranean Agricultural Science* (2021) 34(1):25-32.

▪ **National Papers, Seminars, etc.**

1. Atagün, G., Kobal Bekar, N., Karayel, R., Çelik Ertekin D., Murat Dogru, Ş., Artık, C., 2016. Generation Z meets agriculture. *Journal of Research in Education and Teaching*, 5(2): 19-25.
2. Atagün, G., Bekar, N., Karayel, R., Ertekin, D., Dogru, S., Artık, C., 2015. Generation Z meets agriculture. 4th World Conference on Educational and Instructional Studies, November 05-07, 2015, Antalya, S: 55.
3. Demir, N., Atagün, G., Bekar, N., Ertekin, D., Dogru, S., Güner, P., 2017. Generation Z meets agriculture 2: Today's and future's agriculture through children's eye. IV th International Eurasian Educational Research Congress, 11-14 June, Denizli, s. 906-907.
4. Calis, O. , Ozdemir, F., Karakas, H., Karabulut, D., Celik Ertekin, D., Saygi, S., 2014. Use of tomato genetic resources center seeds in molecular resillience and biotechnology studies. 5. Seed Congress with International Participation, Diyarbakir, Turkey, 20 - 23 October 2014, cilt.1, sa.1, ss.300-304.



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▪ **OTHER PUBLICATIONS**

▪ **Bachelor Thesis**

Determination of Sensitive and Resistant Line in Culture Tomatoes Against Bacterial Spot Disease Agent (*Pseudomonas syringae* pv. *tomato* DC3000) (Gaziosmanpaşa University, Department of Plant Protection - 2008)

▪ **Master Thesis**

Identification of Genetic Inheritance of Resistant Tomatoes Against Bacterial Canker (*Clavibacter michiganensis* subsp. *michiganensis*) Disease (Gaziosmanpaşa University, Institute of Science, Department of Plant Protection - 2011)

▪ **Ph.D. Thesis**

Identification of Bean Halo Blight (*Pseudomonas savastanoi* pv. *phaseolicola*) with Bean Common Bacterial Blight (*Xanthomonas axonopodis* pv. *phaseoli*) Diseases and Determination of Their Reactions on Bean Lines at Middle Black Sea Region (Gaziosmanpaşa University, Institute of Science, Department of Plant Protection - 2016)

▪ **Seminars**

Molecular Mechanisms Providing Resistance Against Bacteria in Plants (Master Seminar, Gaziosmanpaşa University, Institute of Science, Department of Plant Protection - 2011)

Genetic Resistance to Plant Diseases and Marker Assisted Selection (Ph.D. Seminar, Gaziosmanpaşa University, Institute of Science, Department of Plant Protection – 2014)

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

1. Turkey III. Plant Protection Congress, 15-18 July 2009, Van
2. Turkey IV. Plant Protection Congress, 28-30 June 2011, Kahramanmaraş
3. Statistics and Trial Techniques, 06-10 February 2012, Samsun
4. Training on Recognition and Control Methods of Important of Plant Fungal, Bacterial and Viral Diseases of Our Region, 17-18 May, Samsun.
5. Determination of Phytoplasma Infections that are Problems in Crop Production (Applied Workshop), 01-04 April 2013, Ankara
6. TUBITAK 2237 Research Project Preparation Training in Agricultural Science, 28-30 May, 2014, Kayseri
7. 4th World Conference on Educational and Instructional Studies, 05-07 November 2015, Antalya
8. TUBITAK 4007 Samsun Science Festival, 01-02 June 2016, Samsun