



TAGEM
R&D AND INNOVATION

PLANT PROTECTION CENTRAL RESEARCH
INSTITUTE/ ANKARA



DURMUŞ ERDURMUŞ, PhD

Agricultural Engineer

EDUCATION

Assoc. prof

PhD Ankara University
2016-2023 Faculty of Agriculture

MSc Ankara University
2003-2006 Faculty of Agriculture

Bachelor's Degree Gaziosmanpasa University
1998-2002 Faculty of Agriculture

LANGUAGE English B2

CAREER

2019- Continuing Head of Department, Plant Protection Central Research Institute, ANKARA

2011-2019 Senior Analyst Expert, Agriculture and Rural Development Support Institute (ARDSI), ANKARA

2009-2011 Unit Supervisor, ARDSI, Provincial Coordination Unit of AFYONKARAHISAR

2002-2007 Agriculture Engineer, Plant Protection Central Research Institute, ANKARA

2000-2002 Agriculture Technician, Food Control Laboratory, ISPARTA

1996-2000 Agriculture Technician, Provincial Directorate of Agriculture, BITLIS

ABOUT ME

He was born in 1977 in Afyonkarahisar. He graduated from Manisa Beydere Agricultural Vocational High School in 1995. He graduated from Tokat Gaziosmanpaşa University Faculty of Agriculture in 2002. He completed his master's degree in Ankara University, Faculty of Agriculture, Department of Plant Protection in 2006 and his PhD in 2023.

He started to work as an agricultural technician in 1996 and worked in various provincial organizations of the Ministry of Agriculture and Forestry between 1996-2009. Between 2009-2019, he worked as a specialist, senior analyst and unit supervisor at the Agriculture and Rural Development Support Institution. He continues his duty as the Head of Biological Control Department at the Central Research Institute of Agricultural Control.

He carries out academic studies on plant diseases and biological control in the field of mycology.

CONTACT

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▪ **PROJECTS**

▪ **Projects Conducted**

1. Investigation of the effectiveness of *Trichoderma harzianum* against important root and root collar disease agents in wheat. (Project Leader)
2. Project for determination of genotypes resistant to root and root collar diseases in wheat, determination of suitable breeding techniques and chemical control. (Assistant researcher)
3. The Effects of Fusarium Species Causing Spike Blight (Scab) on Quality and Quantity of Wheat, Quantitative Determination of Deoxynivalenol (Don) Formed by These in Grains and Investigation of Disease Control Possibilities. (Assistant researcher)
4. Plant Passport Twinning Project (RTA Assistant).

▪ **Ongoing Projects**

1. Molecular Characterization of Important Root Rot Pathogens and *Trichoderma* spp. in Strawberry Production Areas and Investigation of Biological Control Opportunities Against the Disease (Project Leader)
2. Detection of Entomopathogenic Nematode Species in Sakarya and Kocaeli Provinces and Determination of Biological Activities. (Assistant researcher)
3. Biopesticide Formulation Research. (Assistant researcher)
4. Establishment of Phytosanitary Microorganism Culture Collection and Preparation of Catalogue. (Assistant researcher)



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▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in International Journals**

1. Erdoğan, F. D. , **Erdurmuş, D.** , Yağcı, M. and Bayraktar, H. 2021. Effects of some *Metarhizium anisopliae* (Metschn.) Sorokin, 1883 (Hypocreales: Clavicipitaceae) isolates on root-knot nematodes under laboratory conditions . Turkish Journal of Entomology , 45 (2), 193-201
<https://doi.org/10.16970/entoted.878024>
2. Tunalı, B., Nicol, J. M., Hodson, D., Uçkun, Z., Büyük, O., **Erdurmuş, D.**, Hekimhan, H., Aktas, H., Akbudak, M. A., And Bağcı, S. A. 2008. Root and crown rot fungi associated with spring, facultative, and winter wheat in Turkey. Plant Disease 92:1299-1306. <https://doi.org/10.1094/PDIS-92-9-1299>
3. Tunalı B., Özseven I., Büyük O., **Erdurmuş D.** and Demirci A. 2006. Fusarium head blight and Deoxynivalenol accumulation of wheat in Marmara region and reactions of wheat cultivars and lines to *F. graminearum* and *F. culmorum*. Plant Pathology J. 5 (2): 150-156.

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

1. **Erdurmuş, D.**, Palacioğlu, G., Erdurmuş, G. and Bayraktar, H. 2023. First report of *Neopestalotiopsis rosae* causing leaf spot and crown rot of strawberry in Turkey. *J Plant Pathol* **105**, 315 (2023).
<https://doi.org/10.1007/s42161-022-01218-8>
2. Kulen, S. and **Erdurmuş, D.** 2022. An Investigation on the Antifungal Effect of Some Benzimidazole Compounds. 1st International Congress on Biotech Studies (ICBIOS 2022) November 9-11, 2022, Online
3. **Erdurmuş D.** ve Bayraktar H. 2021. The prevalence and pathogenicity of important fungal root rot diseases in strawberry growing areas. 8th Plant Protection Congress with International Participation, August 24-28, 2021| ONLINE.
4. Nicol, J.M., Bolat, N., **Erdurmuş, D.** et al. 2006. Cimmyt and Turkey's international shuttle breeding program to develop wheat lines with fusarium crown rot and other soil borne pathogen resistances. In The Global Fusarium Initiative for Int. Collaboration. 110-116. ed. Ban,T., Lewis,J.M. and Phipps,E.E. A Strategic Planning Workshop held at Cimmyt, El Batan, Mexico, March 14-17th 2006.
5. Tunalı B., **Erdurmuş D.**, Ozseven I, Büyük O, Araz A. 2004. Effects of fungicides applied at anthesis on Fusarium head blight and deoxynivalenol in wheat in Ankara and Sakarya provinces, . 2nd International Symposium on Fusarium Head Blight, Orlando, USA, December 11-15 2004.
6. Tunalı B., Ozseven I, Büyük O, **Erdurmuş D.** 2004 Fusarium head blight reactions and accumulation of Deoxynivalenol(DON) and effect on quality of wheat, wheat 2nd International Symposium on Fusarium Head Blight, Orlando, USA, December 11-15 2004.
7. Nicol, J., Sahin, E., **Erdurmuş, D.**, et al. 2003. Research on root rots and nematodes progress update of Turkey–CIMMYT collaboration from 2003. Annual Wheat Newsletter, 50 : 172-176.



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▪ NATIONAL ARTICLES AND PAPERS

▪ Articles Published in National Journals

1. **Erdurmuş, D.** ve Katırcıoğlu, Y.Z. 2008. Studies on the effect of *Trichoderma harzianum* against important root and crown rot pathogens of wheat. *Plant Protection Bulletin*, 48 (1): 37-48.

▪ National Papers, Seminars, etc.

1. Tunalı B. Lomer C, Kodan M, Büyük O ve **Erdurmuş D.** 2004. Studies on in-vitro effect of *Beauveria bassiana* (Balsamol, Vuillemin) against Sunn pest (*Eurygaster maura* L.). Turkey 1st Plant Protection Congress, Samsun, September 8-10 2004. 31 p.
2. **Erdurmuş D.**, Büyük O., Tunalı B. 2005. The Importance of Fungal Disease in The Certification of Cereal Seeds. Turkey 2nd Seed Congress, Adana, November 9-11 2005. 307 p.
3. Hekimhan, H., Bağcı, A., Nicol, J.M., Arsoy, R.Z., Kaya, Y. ve **Erdurmuş, D.** 2007. The Effect of Seeding Rate on Dryland Root and Foot Rot Disease in Selected Winter Bread Wheat Lines. Turkey 2nd Plant Protection Congress, Isparta, August 27-29 2007, 299 p.
4. Altıparmak, G., Büyük, O., **Erdurmuş, D.** ve Tunalı, B. 2009. Determination of Fungal Flora at Corn Production Areas in Middle and West of Black Sea Regions and Dissection of DON Occurrence by *Fusarium* spp. Turkey 3rd Plant Protection Congress, Van, July 15-18 2009, 136 p.

▪ OTHER PUBLICATIONS

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

1. **Erdurmuş, D.** 2023. Characterization of *Rhizoctonia* spp. In Strawberry Cultivation Areas and Investigation of Biological Control Possibilities With *Trichoderma* spp. Against Black Root Rot Disease. Ankara University, Graduate School of Natural and Applied Sciences, Plant Protection Department. PhD Thesis.
2. **Erdurmuş D.** 2006. Studies on The Effect of *Trichoderma harzianum* Against Important Root Rots Pathogens of Wheat. Ankara University, Graduate School of Natural and Applied Sciences, Plant Protection Department. Master's Thesis.
3. Nicol J.M., Bolat, N., **Erdurmuş, D.** et al. 2005. The international breeding strategy for the incorporation of resistance in bread wheat against the soil borne pathogens (Dryland root rot and cyst and lesion cereal nematodes) using conventional and molecular tools. In *Wheat Production in Stressed Environments*. 125-137. eds. Buck, H.T. et al. Book Chapter.



DURMUŞ ERDURMUŞ, PhD Agricultural Engineer



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

1. Member of the Board of Auditors of the Turkish Agricultural Engineers Association (2008-2010), Agency Representative
2. Turkish Phytopathology Association Membership
3. International Master Class in Soil Borne Pathogens of Cereals. Anadolu Research Institute, 15-27 June 2003, Eskişehir.
4. Turkey 1st Plant Protection Congress, Samsun, September 8-10 2004.
5. Turkey 2nd Seed Congress, Adana, November 9-11 2005
6. Organic Agriculture Education. Alata Horticultural Research Institute, Mersin, September 26-30 2005.
7. English Language Programme, The Turco-British Association, 17 January – 8 May 2006.
8. 3th International Master Class in Soil Borne Pathogens of Wheat, Tunisian Agricultural Research National Institute, 28 April-9 May 2008, Tunisia.
9. Agriculture and Rural Development Support Institution (ARDSI) Financial Statement Analysis Training, Renaissance Institute of Change and Governance Sciences, Ankara, December 13-14 2011.
10. Zafer Development Agency, Project Cycle Management Training, ARDSI Afyonkarahisar Provincial Coordination Unit, 2011.
11. Public Servants Ethical Behavior Principles Seminar, Prime Ministry Public Servants Ethics Committee, Ankara
12. Seed in Soil, Thought Education in Man, Prof.Dr. Ustun DOKMEN, ANKARA
13. Trainer's Training Program, EDUCON Education Consultancy Congress, ANKARA, July 23-24 2015.
14. Workshop on Friendly Microorganisms in Plant Health, Ankara, September 9-10 2020-Online
15. Workshop on the Prevention of Water Pollution from Plant Protection Products, November 25 2020
16. 8th Plant Protection Congress with International Participation, Bolu-TURKEY, August 24-28 2021-Online.
17. Interactive Strawberry E-Workshop, Antalya, November 16-19 2021-Online.
18. New Approaches in the Control of Soil Borne Pathogens Workshop with International Participation, Ankara, December 15 2021-Online