



TAGEM
R&D AND INNOVATION

PLANT PROTECTION CENTRAL RESEARCH
INSTITUTE/ ANKARA

Dr. NİLÜFER AKCI
Agricultural Engineer

EDUCATION

- PhD 2018 Ankara University Agricultural Faculty, Plant Protection
- MSc 2005 Ankara University Agricultural Faculty, Plant Protection
- Bachelor's Degree 2002 Ankara University Agricultural Faculty,
Plant Protection
- Foreign Language English YÖKDİL 68,50

CAREER

- 2020-... Plant Protection Central Research Institute, Ankara
- 2012-2020. Department of Resistant to Pest and Disease, Central
Research Institute for Field Crops

ABOUT ME

She was born in 1979 in Ankara. She graduated from Ankara University Faculty of Agriculture in 2002. She worked in the Department of Field Crops Central Research Institute- Disease and Pest Resistance Breeding Unit Between 2012-2020. She has been working in the Directorate of Plant Protection Central Research Institute in the Cereal Diseases Unit in the Department of Plant Diseases since 2020.

CONTACT



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■ PROJECTS

- IWWIP-International Winter Wheat Improvement Program.
- Addressing the challenges of climate change for sustainable food security in Turkey, Iran and Morocco, through the creation and dissemination of an international database to promote the use of wheat genetic resources and increase genetic gains.
- National Coordinator of National Research Project for Diseases of Temperate Cereals in Turkey
- Determination of Races of Wheat Stem Rust (*Puccinia graminis* f. sp. *tritici*) in Kastamonu and Sinop Province and Effects of Berberis species on pathogenic variation of stem rust
- Determination of Reactions of Some Durum Wheat Breeding Research Materials of Central Anatolia Region to Some Fungal Diseases (rusts or other diseases)
- Determination of Reactions of some Bread Wheat Breeding Research Materials of Central Anatolia Region against Some Fungal Diseases (rusts or other diseases)
- Determination of Reactions of Barley Breeding Material to Some Fungal Diseases in Central Anatolia Region
- Determination of Reactions to the Chickpea Anthracnose (*Ascochyta rabiei* (Pass Labr.)) Disease of Central Anatolia Region Chickpea Breeding Research Materials
- Determining the prevalence and agents of cereal bunt disease (*Tilletia* spp.)
- National Winter Wheat Breeding Coordination
- Detection of Rust Diseases (*Puccinia* spp.) in Oat Fields and Determination of Resistance of Some Oat Genotypes to Stem Rust (*Puccinia graminis* f. sp. *avenae*) Races
- Studies on the standard drug trial method as a basis for the investigation and control of the biological effectiveness of Afla Guard (*Aspergillus flavus* NRRL 21882) against *Aspergillus parasiticus* in maize.
- Studies on the standard drug trial method based on the investigation and control of the biological effectiveness of Acibenzolar S-methyl (ASM) against stem and ear rot disease (*Fusarium verticillioides*) in maize.
- Investigation of Biological Efficacy of Miravis Era/Demita Plant Protection Product Against Fusarium Head Blight Disease (*Fusarium graminearum*, *F. culmorum*) in Wheat



▪ **PUBLICATIONS**

▪ **Published in International Journals**

- Bozdemir, Ç., Bahtiyarca Bağdat, R., Subasi, İ., **Akci, N.**, Cinkaya, N. 2022. Determination of Yield and Quality Characteristics of Various Genotypes of Black Cumin (*Nigella sativa* L.) Cultivated Through Without Fertilizers. International Journal of Life Sciences and Biotechnology, 2022. 5(3): p. 386-406. DOI: 10.38001/ijlsb.1111198.
- **Akci N.**, Karakaya, A., 2021. Determination of the Seedling Reactions of Some Turkish Bread and Durum Wheat Cultivars to Stem Rust Races TTTTF, RTTTC and RTTTF. Journal of Agricultural Sciences 2021, 27 (3) : 321 – 326. DOI: 10.15832/ankutbd.689155
- **Akci N.**, Karakaya, A., 2021. *Puccinia graminis* f. sp. *tritici* races identified on wheat and *Berberis* spp. in northern Turkey. Indian Phytopathology <https://doi.org/10.1007/s42360-021-00343-1>
- Hayit T., Erbay H., Varçın F., Hayit F., **Akci N.**, 2021. Determination of the severity level of yellow rust disease in wheat by using convolutional neural networks. Journal of Plant Pathology. <https://doi.org/10.1007/s42161-021-00886-2>.
- Bhatta M., Morgounov A., , Dababat A., **Akci N.**, , , 2019. Genome-Wide Association Study for Multiple Biotic Stress Resistance in Synthetic Hexaploid Wheat. International Journal of Molecular Sciences, 20, 3667.
- **Akci N.**, Karakaya, A., 2019. Distribution of stem rust of wheat in Kastamonu, Turkey. Journal Of Plant Biology Research, Vol. 8, No 1 (2019).

▪ **International Refereed Congress, Symposium Publications in Proceedings**

- **Akci N.**, Karakaya, A., 2022. Presence of *Berberis* species and their aecial infection in Çankırı province of Turkey. BGRI 2022 Virtual Technical Workshop. Poster Session
- **Akci N.**, Akan K., Özdemir B., Yazar S., Salantur A., Kılıç, G., Alyamaç M.E., Dönmez E., Öztürk, İ. 2022. Determination of the reactions of some advanced yield trials-bread wheat genotypes to rust and bunt. IV. International Plant Breeding Congress.21-25 November 2022.Antalya-Türkiye.
- **Akci N.**, Akan K., Özdemir B., Yazar S., Salantur A., Kılıç, G., Alyamaç M.E., Dönmez E. 2022. Determination of the reactions of some advanced yield trials-durum wheat genotypes to rust. IV. International Plant Breeding Congress.21-25 November 2022.Antalya-Türkiye.



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- **Akci N.**, Akan K., Özdemir B., Yazar S., Dönmez E., Salantur A., Alyamaç, M.E., Kılıç, G. 2022. Some Advance Yield Trials – Durum Wheat Reactions To Bunt. TURK-COSE 2022: IV. International Turkic World Congress on Science and Engineering Congress. June, 23-24 Haziran 2022
- **Akci N.**, Seidi Arslan, M., Erdoğan Bağçeci, S., Büyük, O. Kahraman, T. Çeri, S. 2022. Determination of The Reaction of Some Oat Cultivars to *Fusarium equiseti* Causing by Root Rot Disease. 8 th International Cereal Nematodes Symposium, 26-29 September, Bolu, Türkiye. Page.337-341
- Urin, V., **Akci, N.**, Büyük, O., Erdoğan Bağçeci, S., Seidi Arslan, M. Esmeray, M. 2022. Determination of The Reaction of Some Maize Genotypes to Ear Rot Disease Caused by *Fusarium verticilloides* .8 th International Cereal Nematodes Symposium, 26-29 September, Bolu, Türkiye, Page.343-349.
- Seidi Arslan, M., **Akci, N.**, Büyük, O. Erdoğan Bağçeci, S., Çeri, S. Kahraman, T. 2022. Reactions of Root Rot (*Fusarium nygamai* Burgess & Trimboli 1986) Disease in Some Oat Varieties. 8 th International Cereal Nematodes Symposium, 26-29 September, Bolu, Türkiye, Page.329-336.
- Duman, K., Büyük, O., **Akci, N.**, Erdoğan Bağçeci, S., Seidi Arslan, M., Karahan, A. 2022. Preliminary Studies on Biological Control of Wheat Root Rot Diseases. 8th International Cereal Nematodes Symposium, 26-29 September, Bolu, Türkiye. Page.321-328.
- Erdoğan Bağçeci, S., Büyük, O., Seidi Arslan, M., **Akci, N.**, Urin, V. 2022. The Effectiveness of Trichoderma spp. Against The Important Causal Agents of Corn Root Rot Disease in Invitro Conditions. 8 th International Cereal Nematodes Symposium, 26-29 September, Bolu, Türkiye, Page. 121-125.
- **Akci N.**, Karakaya, A., 2021. *Berberis crataegina* is a host for *Puccinia graminis* f. sp. *tritici* in Sinop, Turkey. BGRI 2021 Virtual Technical Workshop. Poster Session.
- **Akci N.**, Akan K., Yazar S., Dönmez E., , , , 2021. Determination of Bunt Reactions of Bread and Durum Wheat to Advance Yield Trial Materials. 8th Plant Protection Congress with International Participation. August 24-28, 2021. Page 288.
- **Akci N.**, Akan K., Şenay A., 2021. Determination of the Reactions of Mutant Bread and Durum Wheat Genotypes to Yellow Rust Disease. 8th Plant Protection Congress with International Participation. August 24-28, 2021. Page 274.
- **Akci N.**, Bahtiyarca Bağdat R., 2021. The Inhibitory Effect of Certain Medicinal and Aromatic Plants (MAPs) on the Development of Barley Net Blotch (*Pyrenophora teres* f. *teres*) in Greenhouse Conditions. 8th Plant Protection Congress with International Participation. August 24-28, 2021. Page 244.



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- Hayit T., Hayit F., **Akci N.**, 2021. Investigation of Image Processing and Data Augmentation Methods for Classification of Infection Types of Yellow Rust Disease in Wheat. 8th Plant Protection Congress with International Participation. August 24-28, 2021. Page 234.
- Akan K., **Akci N.**, Yazar S., Dönmez E., , , 2021. Determination of the Reactions the Bread Wheat Materials to Rust Diseases in Seedling and Adult Plant Stage. 8th Plant Protection Congress with International Participation. August 24-28, 2021. Page 233.
- **Akci N.**, Akan K., Şenay A., 2021. Determination of the Rust Reactions of Mutant Bread and Durum Materials to Seedling and Adult Stage. 8th Plant Protection Congress with International Participation. August 24-28, 2021. Page 226.
- **Akci N.**, Karakaya, A., Kahraman T., 2021. Determination of the Reactions of Some Oat Genotypes to Oat Stem Rust in the Field Under Natural Inoculum Conditions. 8th Plant Protection Congress with International Participation. August 24-28, 2021. Page 217.
- **Akci N.**, Akan K., Yazar S., Salantur A., , , 2021. Reactions Of Some Advance Yield Trials Bread Wheat Genotypes To Rusts And Bunt. III. Balkan Agriculture Congress, Edirne, Turkey, 29 August - 1 September, 2021. page 141.
- Akan K., **Akci N.**, Yazar S., Salantur A., , , 2021. Reactions Of Some Advance Yield Trials Winter Durum Wheat Genotypes To Stem, Leaf And Yellow Rusts. III. Balkan Agriculture Congress, Edirne, Turkey, 29 August - 1 September, 2021. page 142.
- Akan K., **Akci N.**, Özer E., Silva Lopes, M, 2019. The reactions to yellow rust of winter wheat elite genetic materials.. International Wheat Diversity & Human Health Conference, October 22- 24, 2019. Istanbul TURKEY. page 58
- Akan K., **Akci N.**, Özer E., Silva Lopes, M, 2019. Preliminary screening of leaf rust reactions of two winter wheat populations containing landraces and modern varieties from Western-Central Asia.. International Wheat Diversity & Human Health Conference, October 22-24 2019. Istanbul TURKEY page 57.
- Urin V., Helvacıoğlu Ö., **Akci N.**, Ağı Y., Demir L. 2019. Monitoring some resistance genes against leaf rust disease (*Puccinia recondita* f.sp. *tritici*) in natural epidemic conditions in Sakarya province. 1ST International Molecular Plant Protection Congress. April 10-13 2019. Adana- TURKEY.
- **Akci N.**, Karakaya, A., 2019. Detection of wheat stem rust race TTTTF in Turkey. Second International Conference on Advances in Plant Sciences, ICAPS 2019, 25-26 April, 2019, Sarajevo, Bosnia and Herzegovina.
- Akın B, **Akci N.**, Özdemir F, Bhavani S., Morgounov A., Keser M, Wanyera R., 2018. Identification and characterization of winter wheat germplasm resistant to stem rust in Kenya and Turkey. BGRI 2018 Technical Workshop, 14-17 April 2018, Marrakech, Morocco.



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- **Akci N.**, Karakaya, A., 2018. Aecial infection status of Berberis spp. in Kastamonu province of Turkey. BGRI 2018 Technical Workshop, 14-17 April 2018, Marrakech, Morocco
- **Akci N.**, Mert Z., Karagöz E., Keskin N., Gürbüz A. 2016. Determination of the reaction of some kinds of chickpea against the chickpea disease. VI. Plant Protection Congress. 5-8 September 2016 Konya/Turkey. (Poster presentation)

Published in National Journals

- **Other Publications**
- **PhD Thesis , MSc Thesis, Reports, Books etc.**

PhD.

2011-2018

Ankara University Agricultural Faculty, Plant Protection

Thesis name: Determination of Races of Wheat Stem Rust (*Puccinia graminis* f. sp. tritici) in Kastamonu Province and Effects of Berberis Species on Pathogenic Variation of Stem Rust

Advisor: Prof. Dr. Aziz KARAKAYA

- **Book Chapter**
- **International Book Chapter**
Akci N., 2022. Book title 'Wheat' Chapter title 'Wheat Stripe, Leaf and Stem Rust Diseases'. IntechOpen page 77-83. ISBN 978-1-80355-523-2. DOI: <http://dx.doi.org/10.5772/intechopen.107010>.
- **National Book**
- **National Book Chapter**

Akci N., Büyük O., Seidi Arslan M., Erdoğan Bağçeci S., 2022. Corn; Breeding Techniques and Cultivation (Common Diseases in Corn Plant and Management), İKSAD, Ankara, ISBN: 978-625-8377-26-2, 2022.



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Training, Course, Meeting, Workshop, Symposium and Other Activities

- Cereal Rust Surveillance, Race Analysis and Management of Wheat Rust Diseases in Central Asia and Caucasus (FAO – ICARDA-TAGEM. İZMİR, 2022)
- BGRI 2022 Technical Workshop. Online. September 9.2022
- Description, Analysis and Diagnostic Management of *Tilletia indica*. Ankara. 2022
- BGRI 2021 Technical Workshop. Online. October 6-8.2021
- Surveillance, Race Analysis and Management of Wheat Rust Diseases in Central Asia and Near East. İzmir. 17.04.2017
- Standardization of stem rust field notes and germplasm evaluation with discussions on stripe and leaf rust KENYA, Njoro, KALRO 24.09.2017
- BGRI 2018 Technical Workshop (Pathogenomics Workshop).FAS-Marrakech. 14.04.2018