



EDUCATION

PhD Ankara University

2019-Present Department of Field Crops

MS University of Florida 2016-2018 Agronomy Department

Bachelor's Degree Çukurova University
2010-2014 Department of Field Crops

LANGUAGE English YDS 96, Yökdil 100

CAREER

2018-Present Researcher (Wheat Breeder) - Field Crops
Central Research Institute, Department of
Plant Breeding and Genetics, Wheat
Breeding - Ankara/Turkey

ABOUT ME

I was born in Erzurum in 1992. In 2014, I graduated from Çukurova University, Faculty of Agriculture. During the 2011-2012 academic year, I studied at the Warsaw University of Life Sciences with the Erasmus student exchange program. I completed my Master's Degree University of Florida Agronomy Department in 2018. I have been working as an Agricultural Engineer at the Field Crops Central Research Institute since October 2018.

I work as a breeder in the continuous projects of "The Central Anatolia Bread Wheat Breeding Researches" and "The Central Anatolia Durum Wheat Breeding Researches" at the Field Crops Central Research Institute.

CONTACT

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- PROJECTS
- Projects Conducted
- Ongoing Projects
- Characterization of Some of Wheat (Triticum spp.) Genotypes in Terms of Drought Tolerance (Project Leader / 2022-2023)
- 2. The Central Anatolia Region Bread Wheat Breeding Research (Researcher / 2018-2022)
- 3. The Central Anatolia Region Durum Wheat Breeding Research (Researcher / 2018-2022)
- 4. Application of Linear Phenotypic Selection Index (LPSI) in Plant Breeding (Researcher / 2022-2024)
- 5. Determination of the Effect of Nitrogen Dose and Environment on Yield and Quality Traits of Some Local and Commercial Wheat Varieties (Researcher / 2021-2023)
- 6. Determination of Allelic Variation in Vernalization and Photoperiod Genes in Bread Wheat Genotypes (Researcher / 2020-2024)
- 7. National Winter Wheat Breeding Research (Researcher / 2018-2022)
- 8. International Winter Wheat Improvement Program (IWWIP) (Researcher / 2018-Present)





PUBLICATIONS

- INTERNATIONAL ARTICLES AND PAPERS
- Articles Published in International Journals
 - Pradhan S, Babar MA, Robbins K, Bai G, Mason RE, Khan J, Shahi D, Avci M, Guo J, Maksud Hossain M, Bhatta M, Mergoum M, Asseng S, Amand PS, Gezan S, Baik B-K, Blount A and Bernardo A (2019) Understanding the Genetic Basis of Spike Fertility to Improve Grain Number, Harvest Index, and Grain Yield in Wheat Under High Temperature Stress Environments. Front. Plant Sci. 10:1481. doi: 10.3389/fpls.2019.01481
 - 2. Pradhan, S., Babar, M. A., Bai, G., Khan, J., Shahi, D., **Avci, M.**, ... Kunwar, S. (2020). Genetic dissection of heat-responsive physiological traits to improve adaptation and increase yield potential in soft winter wheat. BMC Genomics, 21(1). doi: 10.1186/s12864-020-6717-7
 - 3. Guo, J.; Khan, J.; Pradhan, S.; Shahi, D.; Khan, N.; **Avci, M.**; Mcbreen, J.; Harrison, S.; Brown-Guedira, G.; Murphy, J.P.; Johnson, J.; Mergoum, M.; Esten Mason, R.; Ibrahim, A.M.H.; Sutton, R.; Griffey, C.; Babar, M.A. Multi-Trait Genomic Prediction of Yield-Related Traits in US Soft Wheat under Variable Water Regimes. Genes 2020, 11, 1270.

International Papers, Seminars, etc.

- Avci M. I., Khan J., Shrestha S. P., Hossain M. M., Akond M., Babar A. M., Murphy P. Genetic mechanism that controls stay green in AGS2000/NC06-19896 doubled haploid population under high temperature stress conditions. Poster presented at: Improving Efficiency in Breeding Programs; 2016 Annual National Association of Plant Breeders; 2016 Aug 15-18; Raleigh, NC
- 2. Avci M. I., Khan J., Shrestha S. P., Hossain M. M., Shahi D., Rahman A., Babar A. M., Murphy P. Identifying the Genetic Loci Associated with Fruiting Efficiency and Yield Components in AGS2000/NC06-19896 DH Population Under Post Anthesis High Temperature Stress Conditions. Poster presented at: Managing Global Resources for a Secure Future; 2017 ASA, CSSA and SSSA International Annual Meetings; 2017 Oct 22-25; Tampa, FL
- 3. Khan J., Shrestha S. P., Avci M. I., Shahi D., Hossain M. M., Rahman A., Babar A. M. Genetic Variability and Association Analysis in US Soft Wheat Panel for Fruiting Efficiency Under Post Anthesis Drought and Supplemental Irrigated Conditions. Poster presented at: Managing Global Resources for a Secure Future; 2017 ASA, CSSA and SSSA International Annual Meetings; 2017 Oct 22-25; Tampa, FL
- **4.** Shrestha S. P., Khan J., **Avci M. I.**, Shahi D., Guo J., Rahman A., Babar A. M. Identifying Potential Avenues for Increasing Grain Number Under Post Anthesis Heat Stress Condition. Oral presentation at: Managing Global Resources for a Secure Future; 2017 ASA, CSSA and SSSA International Annual Meetings; 2017 Oct 22-25; Tampa, FL





- NATIONAL ARTICLES AND PAPERS
- Articles Published in National Journals
- National Papers, Seminars, etc.

OTHER PUBLICATIONS

- Ph.D. Thesis, Master Thesis, Reports, Books etc.
 - 1. Identifying QTLs Related to Stay-Green, Yield and Yield Components in Wheat under Hot and Humid Environment Master Thesis
 - Dev Paudel, Smit Dhakal, Saroj Parajuli, Laxman Adhikari, Ze Peng, You Qian, Dipendra Shahi, Muhsin Avci, Shiva O. Makaju, Baskaran Kannan, Chapter 38 Use of quantitative trait loci to develop stress tolerance in plants, Plant Life Under Changing Environment, Academic Press, 2020, Pages 917-965, ISBN 9780128182048, https://doi.org/10.1016/B978-0-12-818204-8.00048-5 (http://www.sciencedirect.com/science/article/pii/B9780128182048000485)

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

- 1. CIMMYT Proposal Development Course June 24-26, 2019, Ankara / TURKEY
- 2. CIMMYT Basic Wheat Improvement Course Jan 18 to May 31 2021 El Batán, Texcoco, México
- 3. CIMMYT Advanced Wheat Improvement Course Aug 2- Oct 1, 2021 El Batán, Texcoco, México
- 4. Climate Reality Leadership Corps Training, 24 Oct, 2021, Online Modality

Awards and Scholarships

- 1. Turkish Government Scholarship for Graduate Studies Abroad (2014)
- 2. Paul Harris Travel Award University of Florida (2016)
- 3. CIHEAM Scholarship for Adanved Course Predictive Breeding Tools for Intensive and Sustainable Production Under Climate Change Scenarios

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