



**TAGEM**  
R&D AND INNOVATION

TRANSITIONAL ZONE AGRICULTURAL  
RESEARCH INSTITUTE/ ESKİSEHİR

## SUAT OZDEMİR, PhD Agricultural Engineer

### EDUCATION

- PhD** 2020 Selcuk University  
Agriculture Faculty
  - MSc** 2011 Eskisehir Osmangazi University  
Agriculture Faculty
  - Bachelor's Degree** 2006 Gaziosmanpasa University  
Agriculture Faculty
- LANGUAGE** English / YDS 70

### CAREER

- 2015 - Assistant of Director, Transitional Zone  
Agricultural Research Institute - ESKİSEHİR
- 2006 - 2015 Agronomist, Transitional Zone Agricultural  
Research Institute - ESKİSEHİR
- 2004 - 2006 Technician, Provincial Directorate of  
Agriculture - ESKİSEHİR
- 1998 - 2004 Technician, District Directorate of Agriculture  
Kozaklı - NEVSEHİR

### ABOUT ME

I worked in "Wheat and Barley Breeding Research" projects., I studied about Improving Drought Tolerance in Wheat at the University of California, Department of Botany and Plant Sciences in 2013. I worked on Drought Physiology, Root System Traits and Nitrogen Fertilizer Recommendation with Optical Sensors in Wheat.

My purpose is to improve drought tolerance in bread wheat, to breed new cultivars that perform well in terms of root systems, and to increase plant nutrient uptake efficiency using optical sensor-based technology in wheat.

I currently working on "Determination of morphological and physiological traits in Transitional Zone Agricultural Research Institute winter bread wheat breeding materials" project.

### CONTACT



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### ▪ **PROJECTS**

#### ▪ **Projects Conducted**

1. Bread Wheat Breeding Studies in Transitional Zone / 2010 - 2012
2. Durum Wheat Breeding Studies in Transitional Zone / 2010 - 2012
3. Barley Breeding in Transitional Region / 2010 - 2012
4. Research of Soil Born Pathogen in Wheat / 2011 - 2015.
5. National Research Project for Diseases of Cereals / 2010 – 2014
6. Monitoring of Wheat Varieties Widespread in Middle Anatolian and in the Intersection Zone of West Region in Turkey / 2010 – 2013
7. Determination of The Optimum Sowing Rates of Wheat Cultivars Sown in Different Locations (Project of Master) / 2010 – 2011
8. Determination of Morphological and Physiological Properties of Winter Bread Wheat Breeding Material of Transitional Zone Agricultural Research Institute / 2014 – 2020
9. Effect on Grain Protein Content of Bread Wheat of Deep Nitrogen Application / 2013 – 2016
10. Calibration of Nitrogen Fertilization on Wheat in Eskisehir Conditions. TAGEM/TBAD/16/A12/P01/004, (2016-2021)
11. Effects on Biodiesel Yield and Quality in Safflower Different Amount of Applied Phosphorus / 2013 2015
12. Introduction of Improved New Wheat Cultivars / 2015 – 2017
13. Determination of Relationships Among Root System Traits with Some Morphological and Physiological Parameters Used to Improve Drought Tolerance in Bread Wheat (Project of Doctorate) / 2016 – 2018
14. HarvestPlus-Zinc Fertilizer Project, (4nd Phase) (2018-2021) Prof.Dr. İsmail Çakmak (Sabancı University)

#### ▪ **Ongoing Projects**

1. Determination of Morphological and Physiological Traits in Transitional Zone Agricultural Research Institute Winter Bread Wheat Breeding Materials. TAGEM/TBAD/15/A12/P01/004.
2. Determination of Advanced Stage Durum Wheat Genotypes Agronomically Biofortified with Nitrogen, Zinc and Selenium, TAGEM (2022-2025).



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### ■ **PUBLICATIONS**

#### ■ **INTERNATIONAL ARTICLES AND PAPERS**

##### ■ **Articles Published in International Journals**

##### ■ **International Papers, Seminars, etc.**

1. **Ozdemir, S.** and Soylu, S., 2018, Research on relationships between root traits with some morphological and physiological parameters in bread wheat. International Agricultural Science Congress, 09-12 May 2018, Van.
2. Savasli, E; Karaduman, Y; Önder, O; Özen, D; Dayiođlu, R; Ateş, Ö; **Ozdemir, S.** 2022. Estimating technological quality parameters of bread wheat using sensor-based Normalized Difference Vegetation Index. Journal of Cereal Science, 107, 103535, 2022.
3. Savasli, E; Önder, O; Karaduman, Y; Özen, D; Dayiođlu, R; **Ozdemir, S;** Akın, A; Ateş, Ö; Ekiz, M; Erşahin, S. 2023. Effect of deep nitrogen fertilizer application on grain protein content and quality of bread wheat. Communication in Soil Science and Plant Analysis, 0010-3624,54, 17, 2412-2424.

#### ■ **NATIONAL ARTICLES AND PAPERS**

##### ■ **Articles Published in National Journals**

1. Savasli, E; Önder, O; Karaduman, Y; Dayiođlu, R; Özen, D; **Ozdemir, S;** Akın, A; Tunca, Z.S; Demir, B; Aydın, N. 2019. The Effect of Soil and Foliar Urea Application at Heading Stage on Grain Yield and Quality Traits of Bread Wheat (*Triticum aestivum* L.), Turkish Journal of Agriculture-Food Science and Technology, 7,11,1928-1936,2019.
2. Savaşlı, E; Önder, O; Dayiođlu, R; Özen, D; **Ozdemir, S;** Karaduman, Y; Ateş, Ö; Özsayın, M. 2020. A Calibration Study for Sensor-Based In-Season Nitrogen Management of Irrigated Winter Wheat. Turkish Journal of Agriculture-Food Science and Technology, 8,9,1882-1891,2020.
3. Savaşlı, E., Önder, O., Dayiođlu, R., Özen, D., Karaduman, Y., **Ozdemir, S.**, Ateş, Ö., Özsayın M., (2021). Nitrogen Fertilizer Recommendation with Optical Sensor for Bread Wheat Varieties. Yüzüncü Yıl Üniversitesi Tarım Bilimleri Dergisi 31(2):453-465. DOI: 10.29133/yyutbd.726039.
4. Kınacı, E., Kınacı, G., Başçiftçi, Z., Kutlu, İ., Ayter, G. and **Ozdemir, S.**, 2011, Comparison of the effects of sprinkler and drip irrigation methods on some agricultural traits in winter wheat. Ticaret Borsası Dergisi, 2: 38–41. ISSN 1309 -5935.2011. Eskisehir.



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### ▪ **OTHER PUBLICATIONS**

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

1. **Ozdemir S.**, Olgun M. 2011. Determination of The Optimum Sowing Rates of Wheat Cultivars Sown in Different Locations (MSc Thesis project).
2. **Ozdemir S.**, Soylu S. 2020. Determination of Relationships among Root System Traits with some Morphological and Physiological Parameters used to Improve Drought Tolerance in Bread Wheat (PhD Thesis project, TAGEM/TBAD/17/A07/P01/005).

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

1. University of California Riverside, Department of Botany and Plant Sciences, Wheat Breeding for Drought Tolerance (Visiting Scholar), 2013, USA
2. University of Colorado, Plant Breeding for Drought Tolerance (Online Course), 2013, USA
3. Turkish-American Association English Language Course (2008) - ANKARA
4. Cereal Breeding Course (2009) – ESKİSEHİR
5. Turkish-British Association English Language Course (2010) – ANKARA
6. BEBKA Project Course (2011) – ESKİSEHİR
7. Statistic Course-1 (2015) – ANKARA
8. Statistic Course-2 (2015) – ANKARA
9. Public Procurement Legislation and Self Development Seminar (2015) – ANTALYA
10. Training Seminar of no: 5018 Public Financial Management Law (2018) – ANTALYA
11. Training Seminar of General Directorate of Staff In-Service (2019) – ANTALYA
12. Training Seminar of Social Security and Labor Law (2022) – ANTALYA

#### **Developed cultivars**

1. REİS (2016) Bread Wheat
2. AKSUNGUR (2020) Bread Wheat
3. LEVENTBEY (2020) Durum Wheat
4. RAMİSBEY (2021) Bread Wheat
5. KARADUMAN (2021) Bread Wheat
6. KANATLI (2022) Bread Wheat
7. SABRİBEY (2019) Two Rows Barley
8. YÜKSEL (2020) Two Rows Barley



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

1. Belen, S., Geçit, HH., Bolat, N., Çakmak, M., Yüksel, S., Karaduman, Y., Şentürk, Ş. and **Ozdemir, S.**, 2011, Effects of Drought on Bread Wheat Grain Yield and Quality at Middle Anatolia and Western Transition Zone. I. National Ali Numan Kırac Congress, 27-30 April 2011, Eskisehir / Turkey (Original:Turkish).
2. Şentürk, Ş., Akgün, İ., Erzurumlu, E., Bolat, N., Yüksel, S., Çakmak, M., Belen, S. and **Ozdemir, S.**, 2011, Pasta Industry Expectations Determination of Breeding Programs. I. National Ali Numan Kırac Congress, 27-30 April 2011, Eskisehir / Turkey (Original:Turkish).
3. Yüksel, S., Bolat, N., Çakmak, M., Belen, S., Şentürk, Ş., Karaduman, Y., **Ozdemir, S.**, Yorgancılar, A. and Kılınc, AT., 2011, The Story of a Barley Cultivar Breeding (Ince-04). Ondokuz Mayıs University Agriculture Department, IV. Seed Congress, 14-17 June 2011, Samsun / Turkey (Original:Turkish).
4. Öğüt, H., Oğuz, H., Şahin, S., Gezgin, S., Aydın, F., Özen, D., **Ozdemir, S.** and Dayıoğlu, R., 2015, Effects of Different Phosphorus Applications for Biodiesel Quality in Energy Purpose Safflower Agriculture. Energy to agriculture and Biofuels 5th National Workshop, 21-22 May 2015, Bursa / Turkey (Original:Turkish).
5. **Ozdemir, S.**, Savaşlı, E., Önder, O. and Soylu, S., 2015, Investigation of Relationships Between Above Ground Biomass and Root Traits in Some Bread Wheat Cultivars. 11. Field Crops Congress, 7-10 September 2015, Canakkale / Turkey (Original:Turkish).
6. **Ozdemir, S.**, Savaşlı, E., Önder, O. and Soylu, S., 2017, Effect of Root Biomass on Nitrogen Uptake in Some Recombinant Inbred Wheat Lines. 12. Field Crops Congress, 11-14 September 2017, Kahramanmaraş / Turkey (Original:Turkish).