

## Asst. Prof. EMRE AKSOY

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABB-6969-2020

ScopusID: 55542809600

Yoksis Researcher ID: 227023

### Education Information

Doctorate, Texas A&M University, Molecular and Environmental Plant Sciences, United States Of America 2009 - 2014

Postgraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 2006 - 2008

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 2001 - 2006

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, ARABIDOPSIS THALIANA CARBOXYL-TERMINAL DOMAIN PHOSPHATASELIKE1 (CPL1) MEDIATES RESPONSES TO IRON DEFICIENCY AND CADMIUM TOXICITY, Texas A&M University, Molecular and Environmental Plant Sciences, 2014

Postgraduate, Effect of drought and salt stresses on the gene expression levels of antioxidant enzymes in lentil (*Lens culinaris* M.) seedlings, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2008

### Research Areas

Tissue and Organ Culture, Molecular Biotechnology, Molecular Genetics, Genetic Engineering, Plant Tissue Culture, Plant Physiology, Plant Breeding and Genetics, Plant Growth and Development, Plant Biochemistry, Plant Biotechnology, Plant Molecular Genetics

### Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2021 - Continues

Assistant Professor, Nigde Omer Halisdemir University, Faculty Of Agronomics And Agricultural Technologies,

Department Of Agricultural Genetic Engineering, 2015 - 2021

Research Assistant, Texas A&M University, Horticultural Sciences, 2009 - 2014

## Academic and Administrative Experience

Deputy Head of Department, Nigde Omer Halisdemir University, Faculty Of Agronomics And Agricultural Technologies, Department Of Agricultural Genetic Engineering, 2019 - 2021

Vice Dean, Nigde Omer Halisdemir University, Faculty Of Agronomics And Agricultural Technologies, 2016 - 2017

## Courses

Biology of Crop Species, Undergraduate, 2020 - 2021

Biochemistry, Undergraduate, 2020 - 2021

Botany, Undergraduate, 2020 - 2021

## Advising Theses

Aksoy E., KALMODULİN BAĞLAMA TRANSKRİPSİYON FAKTÖRÜ3 (CAMTA3)'ün Kuraklık Altındaki Rolünün Arabidopsis thaliana'da İncelenmesi, Postgraduate, D.ATEŞ(Student), 2021

Aksoy E., RNA metabolizma regülatörü CPL1'in tuz stres toleransındaki rolünün arabidopsis thaliana'da incelenmesi, Postgraduate, B.ABUDUREYIMU(Student), 2019

Aksoy E., Investigation of physiological, biochemical and molecular responses of soybean cultivars under iron deficiency, Postgraduate, A.MAQBOOL(Student), 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Engineering of insecticidal hybrid gene into potato chloroplast genome exhibits promising control of Colorado potato beetle, *Leptinotarsa decemlineata* (Coleoptera: Chrysomelidae)**  
Hossain M. J., Bakhsh A., Joyia F. A., AKSOY E., Gökçe N. Z. Ö., Khan M. S.  
Transgenic Research, vol.32, no.6, pp.497-512, 2023 (SCI-Expanded)
- II. **Identification and characterization of RNA polymerase II (RNAP) C-Terminal domain phosphatase-like 3 (SICPL3) in tomato under biotic stress**  
Saeed F., Hashmi M. H., AKSOY E., Demirel U., Bakhsh A.  
Molecular Biology Reports, vol.50, no.8, pp.6783-6793, 2023 (SCI-Expanded)
- III. **Exploring the efficacy of RNAi-mediated gene knock-down via oral delivery of dsRNA in the Colorado potato beetle (*Leptinotarsa decemlineata* Say)**  
Tariq H., Gökçe A., AKSOY E., Elçi E., Bakhsh A.  
Turkish Journal of Zoology, vol.47, no.6, pp.492-504, 2023 (SCI-Expanded)
- IV. **Boron toxicity induces sulfate transporters at transcriptional level in *Arabidopsis thaliana***  
Kayihan C., AKSOY E., Mutlu S. N.  
Turkish Journal of Botany, vol.47, no.1, 2023 (SCI-Expanded)
- V. **Genome-wide identification of QTLs associated with iron deficiency tolerance in soybean reveals GATA12 as the integrator of iron signaling in roots**  
Maqbool A., Şahin A., Bakhsh A., Aksoy E.  
Turkish Journal of Botany, vol.47, no.6, pp.511-528, 2023 (SCI-Expanded)
- VI. **General guidelines for CRISPR/Cas-based genome editing in plants**  
AKSOY E., YILDIRIM K., KAVAS M., Kayihan C., Yerlikaya B. A., Calik I., Sevgen I., Demirel U.  
MOLECULAR BIOLOGY REPORTS, vol.49, no.12, pp.12151-12164, 2022 (SCI-Expanded)

- VII. **Genes involved in mRNA surveillance are induced in *Brachypodium distachyon* under cadmium toxicity**  
AKSOY E., UNCU A. T., FİLİZ E., ORMAN Ş., ÇETİN D., AKBUDAK M. A.  
MOLECULAR BIOLOGY REPORTS, vol.49, no.6, pp.5303-5313, 2022 (SCI-Expanded)
- VIII. **Combined drought and heat stresses trigger different sets of miRNAs in contrasting potato cultivars**  
Gokce Z. N. O., Aksoy E., Bakhsh A., Demirel U., Caliskan S., Caliskan M. E.  
FUNCTIONAL & INTEGRATIVE GENOMICS, vol.21, no.3-4, pp.489-502, 2021 (SCI-Expanded)
- IX. **Individual and combined effect of drought and heat stresses in contrasting potato cultivars overexpressing miR172b-3p**  
Asim A., Gokce Z. N. O., Bakhsh A., Cayli I. T., Aksoy E., Caliskan S., Caliskan M. E., Demirel U.  
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.45, no.5, pp.651-669, 2021 (SCI-Expanded)
- X. **Identification and expression profiling of toxic boron-responsive microRNAs and their targets in sensitive and tolerant wheat cultivars**  
Kayihan D. S., Aksoy E., Kayihan C.  
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.45, no.4, pp.411-433, 2021 (SCI-Expanded)
- XI. **Rapid and efficient in vitro regeneration of transplastomic potato (*Solanum tuberosum* L.) plants after particle bombardment**  
Hossain M. J., Aksoy E., Gokce N. Z. O., Joyia F. A., Khan M. S., Bakhsh A.  
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.45, no.3, pp.313-323, 2021 (SCI-Expanded)
- XII. **Downregulation of imidacloprid resistant genes alters the biological parameters in Colorado potato beetle, *Leptinotarsa decemlineata* Say (chrysomelidae: Coleoptera)**  
Naqqash M. N., Gokce A., Aksoy E., Bakhsh A.  
CHEMOSPHERE, vol.240, 2020 (SCI-Expanded)
- XIII. **Physiological, Biochemical, and Transcriptional Responses to Single and Combined Abiotic Stress in Stress-Tolerant and Stress-Sensitive Potato Genotypes**  
Demirel U., Morris W. L., Ducreux L. J. M., Yavuz C., Asim A., Tindas I., Campbell R., Morris J. A., Verrall S. R., Hedley P. E., et al.  
FRONTIERS IN PLANT SCIENCE, vol.11, 2020 (SCI-Expanded)
- XIV. **Transgenic potato lines expressing hairpin RNAi construct of molting-associated EcR gene exhibit enhanced resistance against Colorado potato beetle (*Leptinotarsa decemlineata*, Say)**  
Hussain T., AKSOY E., Çalışkan M. E., Bakhsh A.  
Transgenic Research, vol.28, no.1, pp.151-164, 2019 (SCI-Expanded)
- XV. **Arbuscular mycorrhizal fungi improve the growth and phosphorus uptake of mung bean plants fertilized with composted rock phosphate fed dung in alkaline soil environment**  
Wahid F., Sharif M., Fahad S., Adnan M., Khan I. A., AKSOY E., Ali A., Sultan T., Alam M., Saeed M., et al.  
Journal of Plant Nutrition, vol.42, no.15, pp.1760-1769, 2019 (SCI-Expanded)
- XVI. **Genome-wide analysis of gene expression profiling revealed that COP9 signalosome is essential for correct expression of Fe homeostasis genes in *Arabidopsis***  
Eroglu S., Aksoy E.  
BioMetals, vol.30, no.5, pp.685-698, 2017 (SCI-Expanded)
- XVII. **Soybean: A new frontier in understanding the iron deficiency tolerance mechanisms in plants**  
AKSOY E., Maqbool A., Tindas İ., Caliskan S.  
Plant and Soil, vol.418, no.1-2, pp.37-44, 2017 (SCI-Expanded)
- XVIII. **Recent advances in potato genomics, transcriptomics, and transgenics under drought and heat stresses: A review**  
AKSOY E., Demirel U., Öztürk Z. N., Çalışkan S., Çalışkan M. E.  
Turkish Journal of Botany, vol.39, no.6, pp.920-940, 2015 (SCI-Expanded)
- XIX. ***Arabidopsis* CPL4 is an essential C-terminal domain phosphatase that suppresses xenobiotic stress responses**  
Fukudome A., AKSOY E., Wu X., Kumar K., Jeong I. S., May K., Russell W. K., Koiwa H.  
Plant Journal, vol.80, no.1, pp.27-39, 2014 (SCI-Expanded)

- XX. **Regulation of Abiotic Stress Signalling by Arabidopsis C-Terminal Domain Phosphatase-Like 1 Requires Interaction with a K-Homology Domain-Containing Protein**  
Jeong I. S., Fukudome A., Aksoy E., Bang W. Y., Kim S., Guan Q., Bahk J. D., May K. A., Russell W. K., Zhu J., et al.  
PLOS ONE, vol.8, no.11, 2013 (SCI-Expanded)
- XXI. **Arabidopsis C-Terminal Domain Phosphatase-Like 1 Functions in miRNA Accumulation and DNA Methylation**  
Jeong I. S., Aksoy E., Fukudome A., Akhter S., Hiraguri A., Fukuhara T., Bahk J. D., Koiwa H.  
PLOS ONE, vol.8, no.9, 2013 (SCI-Expanded)
- XXII. **Loss of function of Arabidopsis C-terminal domain phosphatase-like1 activates iron deficiency responses at the transcriptional level**  
AKSOY E., Jeong I. S., Koiwa H.  
Plant Physiology, vol.161, no.1, pp.330-345, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Bitki Peptit ve Amino Asit Taşıyıcılarının Demir Taşınmasındaki Görevleri**  
AKSOY E., MAQBOOL A., YERLİKAYA B. A., WAHID F.  
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.10, pp.2646-2655, 2022 (Peer-Reviewed Journal)
- II. **Arabidopsis thaliana plants overexpressing the barley NICOTINAMINE SYNTHASE1 (HvNAS1) gene show tolerance to iron deficiency**  
AKSOY E., MAQBOOL A., ABUDUREYİMU B.  
Turkish Journal of Agriculture-Food Science and Technology, vol.8, no.sp1, pp.70-79, 2020 (Peer-Reviewed Journal)
- III. **Comparison of the Sensitivity of Arabidopsis SOS Pathway Mutants under Salt Stress**  
ABUDUREYİMU B., AKSOY E.  
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.7, no.11, pp.1982-1989, 2019 (Peer-Reviewed Journal)
- IV. **Iron Uptake Mechanisms from the Rhizosphere in Plants**  
AKSOY E., YERLİKAYA B. A., AYTEN S., ABUDUREYİMU B.  
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.6, no.12, pp.1673-1683, 2018 (Peer-Reviewed Journal)
- V. **Bitkilerde Hücre İçi Demir Dağıtım Mekanizmaları**  
AKSOY E., AYTEN S., YERLİKAYA B. A., ABUDUREYİMU B.  
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.5, no.12, pp.1558-1565, 2017 (Peer-Reviewed Journal)
- VI. **Function of Arabidopsis CPL1 in cadmium responses**  
AKSOY E., KOIWA H.  
Plant Signaling & Behavior, vol.8, no.5, pp.24120, 2014 (Scopus)
- VII. **Determination of Ferric Chelate Reductase Activity in the Arabidopsis thaliana Root**  
AKSOY E., KOIWA H.  
BIO-PROTOCOL, vol.3, no.15, 2013 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Maize biofortification in the 21st century**  
ASLAM M., Ahmad R. M., KHAN H. Z., Aslam A., AKSOY E.  
in: BIOFORTIFICATION OF GRAIN AND VEGETABLE CROPS Molecular and Breeding Approaches, Azhar Muhammad Tehseen, Ahmad Muhammad Qadir, Rana Iqrar Ahmad, Atif Rana Muhammad, Editor, Elsevier, San

Diego, pp.39-51, 2023

- II. **Potato taxonomy and wild relatives**  
Naeem M., MAQBOOL A., AKSOY E.  
in: Potato Production Worldwide, Çalışkan, Mehmet Emin; Bakhsh, Allah; Jabran, Khawar, Editor, Elsevier, pp.19-55, 2023
- III. **Transcription factors and target genes involved in plant responses to high boron adaptation**  
AKSOY E., KAYIHAN C.  
in: Boron in Plants and Agriculture, Aftab, T., Landi, M., Papadakis, IE., Araniti, F., Brown, PH., Editor, Academic Press, pp.207-231, 2022
- IV. **Genome Editing for Nutrient Use Efficiency in Crops**  
YAGIZ A. K., YAVUZ C., Naeem M., DAS DANGOL S., AKSOY E.  
in: Principles and Practices of OMICS and Genome Editing for Crop Improvement, Prakash, CS., Fiaz, S., Fahad, S., Editor, Springer, Cham, pp.347-383, 2022
- V. **Effect of Climate Change on Abiotic Stress Response Gene Networks in Arabidopsis thaliana**  
YERLİKAYA B. A., ATEŞ D., ABUDUREYİMÜ B., AKSOY E.  
in: Principles and Practices of OMICS and Genome Editing for Crop Improvement, Prakash, CS., Fiaz, S., Fahad, S., Editor, Springer Cham, pp.149-172, 2022
- VI. **The Revolution of Omics Technology in Plant Science**  
AKSOY E., YILMAZ H., KAYIHAN C.  
in: Principles and Practices of OMICS and Genome Editing for Crop Improvement, Prakash, C.S., Fiaz, S., Fahad, S., Editor, Springer Cham, pp.23-56, 2022
- VII. **Effects of Natural Variations on Biofortification**  
MAQBOOL A., BAKHSH A., AKSOY E.  
in: Wild Germplasm for Genetic Improvement in Crop Plants, Azhar Muhammad Tehseen, Wani Shabir Hussain, Editor, Elsevier, pp.115-138, 2021
- VIII. **Recent Advances in Potato (Solanum tuberosum L.) Breeding**  
AKSOY E., DEMİREL U., BAKHSH A., Zia M. A. B., Naeem M., Saeed F., ÇALIŞKAN S., ÇALIŞKAN M. E.  
in: Advances in Plant Breeding Strategies: Vegetable Crops, Al-Khayri Jameel M., Jain S. Mohan, Johnson Dennis V., Editor, Springer, pp.409-487, 2021
- IX. **Biofortification Under Climate Change: The Fight Between Quality and Quantity**  
MAQBOOL A., ABRAR M., BAKHSH A., ÇALIŞKAN S., KHAN H. Z., ASLAM M., AKSOY E.  
in: Environment, Climate, Plant and Vegetation Growth, Shah Fahad, Mirza Hasanuzzaman, Mukhtar Alam, Hidayat Ullah, Muhammad Saeed, Imtiaz Ali Khan, Muhammad Adnan, Editor, Springer, pp.173-227, 2020
- X. **Biyolojik Ağlar**  
YAGIZ A. K., YAVUZ C., AKSOY E.  
in: Biyoinformatik Temelleri ve Uygulamaları, Mehmet Cengiz Baloğlu, Editor, PEGEM, pp.172-211, 2020
- XI. **Biyolojik Veri Tabanları**  
YAGIZ A. K., YAVUZ C., AKSOY E.  
in: Biyoinformatik Temelleri ve Uygulamaları, Mehmet Cengiz Baloğlu, Editor, Kastamonu Üniversitesi, Kastamonu, pp.159-193, 2018
- XII. **Biyolojik Ağlar**  
YAGIZ A. K., YAVUZ C., AKSOY E.  
in: Biyoinformatik Temelleri ve Uygulamaları, Mehmet Cengiz Baloğlu, Editor, Kastamonu Üniversitesi, Kastamonu, pp.159-193, 2018
- XIII. **DNA: Yaşam Molekülü**  
YILMAZ R., AKSOY E.  
in: Biyoloji Öz, Füsün EYİDOĞAN, Editor, NOBEL, pp.116-153, 2015

- I. **Determining The Role of Calmodulin Binding Transcription Factor (CAMTA) Family for Drought Tolerance in Arabidopsis thaliana**  
ATEŞ D., AKSOY E.  
III. International Turkic World Congress on Science and Engineering, Niğde, Turkey, 14 June 2021, pp.68-38
- II. **Investigation of the Effect of Chitosan on Iron Deficiency in Two Sensitive and Resistant Soybean Varieties**  
AKSOY E.  
5th International Anatolian Agriculture, Food, Environment and Biology Congress, Tokat, Turkey, 1 - 04 October 2020
- III. **Farklı Bitki Türlerinde Kalmodülün Bağlayıcı Transkripsiyon Faktörü (CAMTA) Ailesinin Genom Çapında Analizi**  
ATEŞ D., AKSOY E.  
5th International Anatolian Agriculture, Food, Environment and Biology Congress, 1 - 04 October 2020
- IV. **Arabidopsis thaliana plants overexpressing the barley NICOTINAMINE SYNTHASE1 (HvNAS1) gene show tolerance to iron deficiency**  
AKSOY E., MAQBOOL A., ABUDUREYİMU B.  
5th International Anatolian Agriculture, Food, Environment and Biology Congress, Tokat, Turkey, 1 - 04 October 2020
- V. **Effects of natural variations on biofortification**  
MAQBOOL A., BAKHSH A., AKSOY E.  
5th International Anatolian Agriculture, Food, Environment and Biology Congress, Tokat, Turkey, 1 - 04 October 2020
- VI. **Comparison of the Sensitivity of Arabidopsis Mutants Responsible for the SOS Pathway Under Salt Stress**  
ABUDUREYİMU B., AKSOY E.  
5th International Anatolian Agriculture, Food, Environment and Biology Congress, Tokat, Turkey, 1 - 04 October 2020
- VII. **Efficient In planta and Sprayable Delivery of dsRNAs against Colorado potato beetle, Leptinotarsa decemlineata Say (Chrysomelidae: Coleoptera).**  
BAKHSH A., AKSOY E.  
Contribution of RNAi to sustainable agriculture, food safety and security, Atina, Greece, 26 - 28 February 2020
- VIII. **Cloroplastic Transformation of Potato Cultivars to Encode Resistance Against Colorado Potato Beetle and Potato Tuber Moth**  
BAKHSH A., Hossain M. J., Ahmad F., AKSOY E., ÖZTÜRK GÖKÇE Z. N., Mustafa G., Khan M. S.  
Plant Animal Genome XXVIII, San Diego, United States Of America, 11 - 15 January 2020
- IX. **Nışasta ve Şeker Bitkileri Üretiminde Mevcut Durum ve Gelecek**  
ÇALIŞKAN M. E., ÇALIŞKAN S., DEMİREL U., AKSOY E., ARIOĞLU H. H.  
Türkiye Ziraat Mühendisliği IX. Teknik Kongresi, Ankara, Turkey, 13 - 17 January 2020, vol.1, pp.439-462
- X. **Role of calmodulin binding transcription factors (CAMTAs) in plant stress tolerance**  
AKSOY E.  
1th International Congress of the Turkish Journal of Agriculture - Food Science and Technology, Antalya, Turkey, 8 - 10 November 2019
- XI. **Modern day techniques for efficient insect pest management in crop plants**  
BAKHSH A., AKSOY E., ÖZTÜRK GÖKÇE Z. N.  
Eurasian Congress on Molecular Biotechnology (ECOMB), Trabzon, Turkey, 19 - 21 September 2019
- XII. **Transition from Basic to Applied Science in Understanding of Biofortification and Phytoremediation in Plants**  
AKSOY E.  
Eurasian Congress of Molecular Biotechnology, 19 - 21 September 2019
- XIII. **Turkey as a Role Model in Biotechnological Advancement in Pakistan: Virus-free Potato Seed Production**

AKSOY E., DEMİREL U., BAKHSH A., SAEED N. A., MANSOOR S., ÇALIŞKAN S., ÇALIŞKAN M. E.

Eurasian Congress of Molecular Biotechnology, 19 - 21 September 2019

- XIV. **The Role of RNA Metabolism Regulator CPL1 in Salt Stress in Arabidopsis thaliana**  
ABUDUREYİMU B., AKSOY E.  
2nd International Green Biotechnology Congress, İstanbul, Turkey, 9 - 11 September 2019
- XV. **Activity of stress inducible rd29A promoter in transgenic potato under abiotic stress**  
Rahamkulov I., AKSOY E., BAKHSH A.  
II International Green Biotechnology Congress, İstanbul, Turkey, 9 - 11 September 2019
- XVI. **Investigation of Function of Novel 105 miRNA in Potato Using Transgenic Approach**  
YALÇIN M., ARSLAN A., TINDAŞ ÇAYLI İ., AKSOY E., DEMİREL U., BAKHSH A., ÖZTÜRK GÖKÇE Z. N.  
Green Biotechnology Congress, 9 - 11 September 2019
- XVII. **Genome-wide Identification and Expression of CALCIUM/CALMODULIN-BINDING TRANSCRIPTIONAL ACTIVATOR (CAMTA) Gene Family in Arabidopsis thaliana under Abiotic Stresses**  
ATEŞ D., YERLİKAYA B. A., AKSOY E.  
2nd International Green Biotechnology Congress, İstanbul, Turkey, 9 - 11 September 2019
- XVIII. **Challenges and Opportunities of Crop Biofortification**  
AKSOY E.  
II. International Green Biotechnology Congress, 9 - 11 September 2019
- XIX. **CRISPR/Cas9: Developments and Applications for Genome Editing in Plants**  
YERLİKAYA B. A., AKSOY E.  
International Turkic World Congress on Science and Engineering, Niğde, Turkey, 17 - 18 June 2019
- XX. **Quality or Quantity: Crop Battle in Changing Climate**  
AKSOY E.  
4th International Anatolian Agriculture, Food, Environment and Biology Congress, Afyonkarahisar, Turkey, 20 - 22 April 2019
- XXI. **Is Arabidopsis GATA12 Transcription Factor the Missing Key Player in Crosstalk between Gibberellic Acid Signalling and Iron Deficiency Responses?**  
YERLİKAYA B. A., AKSOY E.  
4th International Anatolian Agriculture, Food, Environment and Biology Congress, Afyonkarahisar, Turkey, 20 - 22 April 2019
- XXII. **Silencing insect molting-associated EcR gene leads to enhanced resistance against Colorado potato beetle (Leptinotarsa decemlineata, Say) and Potato tuber moth (Phthorimaea operculella, Zeller)**  
BAKHSH A., HUSSAIN T., ASIM M., PIRLAK U., AKSOY E., ÇALIŞKAN M. E.  
4th International Anatolian Agriculture, Food, Environment and Biology Congress, Afyonkarahisar, Turkey, 20 - 22 April 2019
- XXIII. **New Breeding Technologies for Crop Improvement in Turkey with Special Reference to Potato, Soybean and Quinoa**  
AKSOY E.  
Use of Genome Editing and Other New Breeding Technologies for Global Food Security, 8 - 10 April 2019
- XXIV. **Genetic manipulations in soybean against biotic stresses**  
BAKHSH A., AKSOY E., ÇALIŞKAN S.  
Biofortification of Staple Food Crops, Peshawar, Pakistan, 24 - 28 September 2018
- XXV. **Production of Transplastomic Insect Resistant Plants A way towards Better Integrated Pest Management**  
Hossain J. M., AKSOY E., ÖZTÜRK GÖKÇE Z. N., BAKHSH A.  
International Agricultural Science Congress, Van, Turkey, 9 May - 12 September 2018
- XXVI. **Plant Mediated RNAi Strategy to Induce Insect Resistance in Transgenic Potato Lines**  
BAKHSH A., Hussain T., Aasim M., Pirlak U., AKSOY E., ÇALIŞKAN M. E.  
International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018
- XXVII. **In silico Identification and Characterization of Potential Molecular Markers Related with Iron Deficiency Tolerance in Soybean**

- AKSOY E., ŞAHİN A., MAQBOOL A., ÇALIŞKAN S.  
International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018
- XXVIII. **Soybean Breeding Program Concentrating on Seed Iron Content**  
AKSOY E., MAQBOOL A., ÇALIŞKAN S.  
International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018
- XXIX. **Analyses of Some Molecular Responses of Some Local Soybean Varieties under Iron Deficiency**  
Maqbool A., AKSOY E., ÇALIŞKAN S.  
8. Uluslararası Katılımlı Tarım Öğrenci Kongresi, 27 - 29 April 2018
- XXX. **Farklı Patates Genotiplerinin Demir Eksikliğine Vermiş Oldukları Fizyolojik Tepkilerin Arazide Belirlenmesi**  
Tereci Ş., AKSOY E., ÇALIŞKAN S., BAKHSH A., DEMİREL U., ÇALIŞKAN M. E.  
8. Uluslararası Katılımlı Tarım Öğrenci Kongresi, 27 - 29 April 2018
- XXXI. **Demir İçeriği Artırılmış Patates Islah Hatlarının Seleksiyonu İçin Hızlı ve Güvenilir Biyoteknolojik Bir Tarama Yönteminin Geliştirilmesi**  
Tereci Ş., Ağrı H., AKSOY E., ÇALIŞKAN S., BAKHSH A., DEMİREL U., ÇALIŞKAN M. E.  
8. Uluslararası Katılımlı Tarım Öğrenci Kongresi, 27 - 29 April 2018
- XXXII. **Determination of Physiological and Biochemical Changes in Soybean Varieties Exposed to Short-term Iron Deficiency**  
Akbaş S., AKSOY E., ÇALIŞKAN S.  
8. Uluslararası Katılımlı Tarım Öğrenci Kongresi, 27 - 29 April 2018
- XXXIII. **Development of Transgenic Potato Lines Expressing Ecdysone Receptor Gene of Colorado Potato Beetle**  
BAKHSH A., Hussain T., Aasim M., Pirlak U., AKSOY E., ÇALIŞKAN M. E.  
2018 In Vitro Biology Meeting, 2 - 06 June 2018, vol.54, pp.41
- XXXIV. **Patateste Çoklu Abiyotik Strese Toleranstan Sorumlu Fizyolojik Karakterlerin Araştırılması**  
DEMİREL U., TINDAŞ ÇAYLI İ., Taalaybek Kızı B., Arslan A., Kaplan E., Azimi M. H., Jamel S., YAVUZ C., ÇALIŞKAN S., ÖZTÜRK GÖKÇE Z. N., et al.  
12.Tarla Bitkileri Kongresi, Turkey, 12 - 15 September 2017
- XXXV. **Correlation Analysis of Some Responses of Soybean Cultivars Under Iron Deficiency**  
ÇALIŞKAN S., AKSOY E., Maqbool A., ÇALIŞKAN M. E.  
III. International Plant Breeding Congress, 15 - 19 October 2017
- XXXVI. **Kuraklık Stresi Altında Kinoa Bitkisinin Fizyolojik, Biyokimyasal ve Moleküler Tepkileri**  
YERLİKAYA B. A., AKSOY E.  
6. ULUSALMOLEKÜLER BIYOLOJİ VE BIYOTEKNOLOJİKONGRESİ, Turkey, 5 - 07 October 2017
- XXXVII. **Analyses of Some Physiological Responses of Soybean Cultivars under Iron Deficiency**  
AKSOY E., Maqbool A., ÇALIŞKAN S.  
International Green Biotechnology Congress, 11 - 13 September 2017
- XXXVIII. **Ferric-chelate Reductase: Could it be Used as an Alternative Method to Understand Iron Sensitivity in Soybean?**  
AKSOY E., Maqboll A., ÇALIŞKAN S.  
International Green Biotechnology Congress, 11 - 13 September 2017
- XXXIX. **Natural Variation of Salt Tolerance in Quinoa**  
AYTEN S., AKSOY E.  
International Green Biotechnology Congress, 11 - 13 September 2017
- XL. **Sulfur Metabolites can be Used as Iron Fertilizers to Restore Iron Deficiency Symptoms in Plants**  
AKSOY E.  
International Green Biotechnology Congress, 11 - 13 September 2017
- XLI. **Physiological, Biochemical and Molecular Responses of Quinoa Plant Under Drought Stress**  
YERLİKAYA B. A., AKSOY E.  
International Green Biotechnology Congress, 11 - 13 September 2017
- XLII. **Interplay Between Iron and Sulfur Metabolism is Regulated by a CTD Phosphatase in Plants**



- AKSOY E.  
International Green Biotechnology Congress, 11 - 13 September 2017
- XLIII. **Soybean A New Plant Model in Studying Iron Deficiency Responses in Plants**  
AKSOY E.  
International Conference on Biological Sciences, 21 - 23 October 2016
- XLIV. **Knockdown of Arabidopsis pol II CTD Phosphatase Promotes snRNA 3 extension and Accumulation of Chimeric snRNA mRNA Transcripts**  
Fukudome A., AKSOY E., In Sil J., Hisashi K.  
Plant Biology 2016, 9 - 13 July 2016
- XLV. **Molecular Studies of Resistance Mechanisms in Sunflower against Orobanche cumana Wallr**  
ÇALIŞKAN S., AKSOY E., TINDAŞ İ.  
19th International Sunflower Conference, 29 May - 03 June 2016
- XLVI. **Molecular studies involved in sunflower responses in drought stress**  
TINDAŞ İ., AKSOY E., ÇALIŞKAN S.  
19th International Sunflower Conference, 29 May - 03 June 2016
- XLVII. **Application of Sulfur and Sulfur Metabolites Enhance Iron Deficiency Tolerance in Arabidopsis**  
AKSOY E.  
18th International Symposium on Iron Nutrition and Interaction in Plants, 30 May - 03 June 2016
- XLVIII. **Soybean A New Frontier in Understanding the Iron Deficiency Tolerance Mechanisms in Plants**  
AKSOY E., TINDAŞ İ., ÇALIŞKAN S.  
18th International Symposium on Iron Nutrition and Interaction in Plants, 30 May - 03 June 2016
- XLIX. **Iron Deficiency Responses of Plants are Regulated by Enhanced Sulfur Metabolism via an RNA Metabolism Regulator CPL1**  
AKSOY E.  
18. ULUSAL BİYOTEKNOLOJİ KONGRESİ, Konya, Turkey, 18 - 19 December 2015
- L. **RNA Metabolism of Plant Responses Against Cadmium Toxicity**  
AKSOY E.  
18. ULUSAL BİYOTEKNOLOJİ KONGRESİ, Konya, Turkey, 18 - 19 December 2015
- LI. **An RNA Metabolism Regulator CPL1 Regulates Plant Responses to Cadmium Toxicity by Enhancing the Sulfur Metabolism**  
AKSOY E.  
Green Biotechnology Workshop, GEBZE, Turkey, 21 - 23 September 2015
- LII. **The Interaction between Iron and Sulfur Metabolisms is Controlled by an RNA Metabolism Regulator CPL1**  
AKSOY E.  
Green Biotechnology Workshop, GEBZE, Turkey, 21 - 23 September 2015
- LIII. **Improvement of Potato Varieties with Higher Iron Content and Yield by Molecular Breeding**  
AHMET Ş., ÇALIŞKAN M. E., AKSOY E.  
13. ULUSAL MOLEKÜLER BİYOLOJİ VE BİYOTEKNOLOJİ KONGRESİ, AFYON, Turkey, 21 - 24 August 2015
- LIV. **An RNA Metabolism Regulator CPL1 Regulates Plant Responses to Cadmium Toxicity by Affecting Sulfur Metabolism**  
AKSOY E.  
13. ULUSAL MOLEKÜLER BİYOLOJİ VE BİYOTEKNOLOJİ KONGRESİ, AFYON, Turkey, 21 - 24 August 2015
- LV. **First step of Functional Foods Biofortification of Arabidopsis seeds**  
AKSOY E., KOIWA H.  
Turkey Natural Nutrition and Lifelong Health Summit 2015, SAPANCA, Turkey, 20 - 23 May 2015
- LVI. **CADMIUM DETERMINANT1 CDM1 is a putative heavy metal transporter in Arabidopsis thaliana**  
AKSOY E., SALAZAR J., KOIWA H.  
Annual meeting of American Society of Biochemistry and Molecular Biology, 26 - 30 April 2014, vol.28, pp.617

## **Scientific Refereeing**

Frontiers in Plant Science, SCI Journal, September 2021

TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, SCI Journal, April 2021

BMC GENOMIC DATA, SCI Journal, April 2021

Turkish Journal Of Agriculture And Forestry, SCI Journal, February 2021

PLANT DIRECT, SCI Journal, February 2021

PLANT AND SOIL, SCI Journal, February 2021

Plos One, SCI Journal, February 2021

3 BIOTECH, SCI Journal, February 2021

TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, SCI Journal, January 2021

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