

Dr. Öğr. Üyesi SİNAN MERİÇ

Kişisel Bilgiler

E-posta: s.meric@iku.edu.tr

Web: <https://avesis.iku.edu.tr/s.meric>

Uluslararası Araştırmacı ID'leri

ScholarID: RFpOpY8AAAAJ

ORCID: 0000-0003-0336-0004

Publons / Web Of Science ResearcherID: AAC-6512-2020

ScopusID: 56566361900

Yoksis Araştırmacı ID: 219257

Eğitim Bilgileri

Doktora, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Moleküler Biyoloji Ve Genetik (Dr), Türkiye 2013 - 2022

Lisans, Anadolu Üniversitesi, İşletme Fakültesi, İşletme Bölümü, Türkiye 2010 - 2017

Yüksek Lisans, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Moleküler Biyoloji Ve Genetik (YI) (Tezli), Türkiye 2010 - 2012

Lisans, Zonguldak Bülent Ecevit Üniversitesi, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Türkiye 2005 - 2010

Yaptığı Tezler

Yüksek Lisans, Mısır içeren gıda ve yem çeşitlerinde genetiği değiştirilmiş organizmalarla ilgili genetik analizler, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Moleküler Biyoloji Ve Genetik (YI) (Tezli), 2012

Akademik Unvanlar / Görevler

Araştırma Görevlisi, İstanbul Kültür Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2014 - Devam Ediyor

Verdiği Dersler

BİTKİ BİYOTEKNOLOJİSİNE GİRİŞ, Lisans, 2022 - 2023, 2021 - 2022, 2020 - 2021

GENEL BİYOLOJİ II LABORATUVARI, Lisans, 2022 - 2023

BİTİRME PROJESİ II, Lisans, 2022 - 2023

REKOMBİNANT DNA TEKNOLOJİSİ UYGULAMALARI, Lisans, 2022 - 2023, 2020 - 2021

GENETİK LABORATUVARI, Lisans, 2022 - 2023, 2021 - 2022, 2020 - 2021

GENEL BİYOLOJİ I LABORATUVARI, Lisans, 2022 - 2023, 2021 - 2022, 2020 - 2021

MOLEKÜLER MİKROBİYOLOJİ, Lisans, 2022 - 2023, 2021 - 2022

BİTİRME PROJESİ I, Lisans, 2022 - 2023

GENETİK, Lisans, 2022 - 2023

BİTKİ DOKU KÜLTÜRÜ, Lisans, 2021 - 2022

MOLEKÜLER MİKROBİYOLOJİ LABORATUVARI, Lisans, 2021 - 2022, 2020 - 2021

ORGANİK KİMYA LABORATUVARI, Lisans, 2020 - 2021

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Investigation of Tos17 LTR retrotransposon movements in rice (*Oryza sativa* L.) under nickel and boron stress**
MERİÇ S., AYAN A., Gunduz B., Ozpirincci C., Celik O., ATAK Ç.
CEREAL RESEARCH COMMUNICATIONS, 2024 (SCI-Expanded)
- II. **Physiological characterization and assessment of genetic variability, yield, and quality properties of gamma-ray-induced salinity tolerant soybean (*Glycine max* (L.) Merrill) mutants**
Atak C., Celik O., Gumus T., Meric S., Ayan A., Erdogmus M.
JOURNAL OF APPLIED BOTANY AND FOOD QUALITY, 2024 (SCI-Expanded)
- III. **Profile-based proteomic investigation of unintended effects on transgenic and gamma radiation induced mutant soybean plants**
MERİÇ S., AYAN A., ATAK Ç., ARI Ş.
GENETIC RESOURCES AND CROP EVOLUTION, cilt.70, sa.7, ss.2077-2095, 2023 (SCI-Expanded)
- IV. **BABA pre-treatment before drought stress revealed tolerance related proteomic alterations in rice**
Yalcin H. M., Maytalman S., Ihvan Y. F., Gumus T., MERİÇ S., AYAN A., Atak C.
FEBS OPEN BIO, ss.323, 2022 (SCI-Expanded)
- V. **Comparison of tolerance related proteomic profiles of two drought tolerant tomato mutants improved by gamma radiation**
Celik O., AYAN A., MERİÇ S., Atak C.
JOURNAL OF BIOTECHNOLOGY, cilt.330, ss.35-44, 2021 (SCI-Expanded)
- VI. **Genome organization changes in GM and non-GM soybean [*Glycine max* (L.) Merr.] under salinity stress by retro-transposition events**
Sahin O., Karlik E., MERİÇ S., ARI Ş., Gozukirmizi N.
GENETIC RESOURCES AND CROP EVOLUTION, cilt.67, sa.6, ss.1551-1566, 2020 (SCI-Expanded)
- VII. **Raman Spectroscopic and Chemometric Investigation of Lipid-Protein Ratio Contents of Soybean Mutants**
ÖĞRÜÇ İLDİZ G., ÇELİK Ö., ATAK Ç., YILMAZ A., Kabuk H. N., Kaygisiz E., AYAN A., MERİÇ S., Fausto R.
APPLIED SPECTROSCOPY, cilt.74, sa.1, ss.34-41, 2020 (SCI-Expanded)
- VIII. **Epigenetic analysis of *WRKY* transcription factor genes in salt stressed rice (*Oryza sativa* L.) plants**
ÇELİK Ö., MERİÇ S., AYAN A., ATAK Ç.
ENVIRONMENTAL AND EXPERIMENTAL BOTANY, cilt.159, ss.121-131, 2019 (SCI-Expanded)
- IX. **GMO Analysis Methods for Food: From Today to Tomorrow**
Cakir O., MERİÇ S., ARI Ş.
FOOD SAFETY: INNOVATIVE ANALYTICAL TOOLS FOR SAFETY ASSESSMENT, ss.123-178, 2017 (SCI-Expanded)
- X. **Detection of genetically modified organisms in soy products sold in Turkish market**
Mandaci M., ÇAKIR Ö., TURGUT KARA N., Meric S., ARI Ş.
FOOD SCIENCE AND TECHNOLOGY, sa.4, ss.717-722, 2014 (SCI-Expanded)
- XI. **Detection of genetically modified maize and soybean in feed samples**
Meric S., ÇAKIR O., TURGUT KARA N., ARI Ş.
GENETICS AND MOLECULAR RESEARCH, sa.1, ss.1160-1168, 2014 (SCI-Expanded)

Kitap & Kitap Bölümleri

- I. **Stress Memory and Priming Applications in Plants: Potential for Breeders**
Gümüş T., Aydın T., Gündüz B., Meriç S., Ayan A., Atak Ç.
Recent Trends in Plant Breeding and Genetic Improvement, Mohamed A. El-Esawi, Editör, IntechOpen, London, ss.71-94, 2023
- II. **Transgenic Plants in Heat Stress Adaptation: Present Achievements and Prospects**

Ayan A., Meriç S., Gümüş T., Atak Ç.

Abiotic Stress in Plants - Adaptations to Climate Change, Manuel Oliveira, Anabela A. Fernandes Silva, Editör, IntechOpen, London, ss.123-153, 2023

- III. **Plant Abiotic Stress Factors – Current Challenges of Last Decades and Future Threats**
Gümüş T., Meriç S., Ayan A., Atak Ç.
Plant Abiotic Stress Responses and Tolerance Mechanisms, Saddam Hussain, Editör, IntechOpen, London, ss.1-27, 2023
- IV. **Current Strategies and Future of Mutation Breeding in Soybean Improvement**
Ayan A., Meriç S., Gümüş T., Atak Ç.
Soybean - Recent Advances in Research and Applications, Takuji Ohshima, Editör, IntechOpen, London, ss.137-158, 2022
- V. **Next Generation of Transgenic Plants: From Farming to Pharming**
Atak Ç., Ayan A., Meriç S., Gümüş T.
Genetically Modified Plants and Beyond, Idah Sithole Niang, Editör, IntechOpen, London, ss.49-81, 2022
- VI. **Heavy Metal Stress-Responsive Phyto-miRNAs**
Çelik Ö., Ayan A., Meriç S., Atak Ç.
Cellular and Molecular Phytotoxicity of Heavy Metals, Mohammad Faisal, Quaiser Saquib, Abdulrahman A. Alatar, Abdulaziz A. Al-Khedhairy, Editör, Springer Nature, Berlin, ss.137-155, 2021
- VII. **Plant-based Vaccines: The Future of Preventive Healthcare?**
Ayan A., Meriç S., Gümüş T.
Botany Recent Advances and Applications, Bimal Kumar Ghimire, Editör, IntechOpen, London, ss.57-91, 2021
- VIII. **Molecular Abiotic Stress Tolerant Strategies: From Genetic Engineering to Genome Editing Era**
Ayan A., Meriç S., Atak Ç.
Abiotic Stress in Plants, Shah Fahad, Editör, IntechOpen, London, ss.91-126, 2020
- IX. **Biotic stress-tolerant plants through small RNA technology**
Çelik Ö., Meriç S., Ayan A., Atak Ç.
Plant Small RNA: Biogenesis, Regulation and Application, Praveen Guleria, Vineet Kumar, Editör, Academic Press, Massachusetts, ss.435-468, 2020
- X. **GMO analysis methods in Food: From Today To Tomorrow**
ÇAKIR Ö., MERİÇ S., ARI Ş.
Food Safety: Innovative Analytical Tools for Safety Assessment, Umile Gianfranco Spizzirri, Giuseppe Cirillo, Editör, Scrivener Publishing LLC, ss.123-163, 2017
- XI. **Detection of Genetically Modified Organisms in Feeds**
ÇAKIR Ö., MERİÇ S., ARI Ş.
Genetically Modified Organisms in Food: Production, Safety and Public Health, Ronald R Watson, Victor R. Preedy, Editör, Academic Press Elsevier Science, ss.207-222, 2015

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Expression Analysis of Salinity-associated miRNAs in Gamma-induced Salinity Tolerant Rice (*Oryza sativa*) Mutants**
İMECE B., GÜMÜŞ T., MERİÇ S., AYAN A., ATAK Ç.
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023) October 11-13, 2023. www.EurasianBioChem.org, Türkiye, 11 Ekim 2023
- II. **Proteomic Evaluation of Multiple Abiotic Stress Tolerant Soybean Mutants**
AYAN A., MERİÇ S., GÜMÜŞ T., ÇELİK Ö., ATAK Ç.
V. BALKAN AGRICULTURAL CONGRESS, Edirne, Türkiye, 20 - 22 Eylül 2023
- III. **Retrotransposon-based genotyping on local rice (*Oryza sativa*) varieties through IRAP**
Koyak M., GÜMÜŞ T., MERİÇ S., AYAN A.
4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022),

Ankara, Türkiye, 14 - 16 Aralık 2022, ss.220

- IV. **RNA Sequencing Analysis of Salt and Drought Tolerance in Gamma-induced Soybean (*Glycine max* L. Merr.) Mutants**
AYAN A., MERİÇ S., GÜMÜŞ T., ÇELİK Ö., ATAK Ç.
IV. Balkan Agricultural Congress, Edirne, Türkiye, 31 Ağustos - 02 Eylül 2022, ss.283
- V. **Induction of Hairy Root Cultures of *Calendula Officinalis* L. by *Agrobacterium rhizogenes* Mediated Genetic Transformation and Production of Secondary Metabolites**
MERİÇ S., GÜMÜŞ T., AYAN A., ATAK Ç.
Third International Green Biotechnology Congress 2021, Sarajevo, Bosna-Hersek, 30 Eylül - 02 Ekim 2021
- VI. **Induction of Hairy Root Cultures of *Calendula Officinalis* L. by *Agrobacterium rhizogenes* Mediated Genetic Transformation and Production of Secondary Metabolites**
AYDIN T., MERİÇ S., GÜMÜŞ T., AYAN A., ATAK Ç.
III. International Green Biotechnology Congress-, Sarajevo, Bosna-Hersek, 30 Eylül - 02 Ekim 2021, ss.41
- VII. **Optimization of Tissue Culture Media Inducing Essential Oil Production of *Levander (Lavandula angustifolia)***
MERİÇ S., AYAN A., ATAK Ç.
II. International Green Biotechnology Congress, 9 - 11 Eylül 2019
- VIII. **ROS Scavenging Differences of Tomato Cultivars Under Salt Stress,**
GÜMÜŞ T., ÇELİK Ö., AYAN A., MERİÇ S., ATAK Ç., GÜMÜŞ T.
II. International Green Biotechnology Congress, 9 - 11 Eylül 2019
- IX. **ROS Scavenging Differences of Tomato Cultivars Under Salt Stress**
GÜMÜŞ T., ÇELİK Ö., AYAN A., MERİÇ S., ATAK Ç.
II. International Green Biotechnology Congress-, İstanbul, Türkiye, 9 - 11 Eylül 2019
- X. **Composition Analysis of Soybean Salt-Resistant Mutants by Raman Spectroscopy and Chemometrics**
ÖĞRÜÇ İLDİZ G., ÇELİK Ö., ATAK Ç., YILMAZ A., KABUK H. N., KAYGISIZ E., AYAN A., MERİÇ S., FAUSTO R.
Analytical and Bionalytical Methods Conference, San-Francisco, Kostarika, 29 Nisan - 01 Mayıs 2019
- XI. **Lipid/Protein Ratio Contents of Soybean Mutants: A Raman Spectroscopic and Chemometrics Investigation**
ÖĞRÜÇ İLDİZ G., ÇELİK Ö., ATAK Ç., YILMAZ A., KABUK H., KAYGISIZ E., AYAN A., MERİÇ S., RUI F.
XXXIV EUROPEAN CONGRESS ON MOLECULAR SPECTROSCOPY, Coimbra, Portekiz, 19 - 24 Ağustos 2018
- XII. **Genomic Analysis of Feeder Soybean Seeds Under Salinity Stress**
ŞAHİN O., MERİÇ S., GÜRLE D., ARI Ş.
International Green Biotechnology Congress, 11 - 13 Eylül 2017, ss.93
- XIII. **Two-dimensional protein profiles of drought tolerant tomato (*Solanum lycopersicum*) mutants improved by gamma radiation**
AYAN A., ÇELİK Ö., MERİÇ S., TOPCUOĞLU B., ATAK Ç.
European Biotechnology Congress, Dubrovnik, Hırvatistan, 25 - 27 Mayıs 2017
- XIV. **Investigation of Tos-17 transposon mobility in salt stressed rice (*Oryza sativa* L.) plants by IRAP method**
MERİÇ S., ÇELİK Ö., AYAN A., GUNDUZ B., ATAK Ç.
European Biotechnology Congress, Dubrovnik, Hırvatistan, 25 - 27 Mayıs 2017
- XV. **Magnetic field induced production of anti-cancer agent vincristine from Madagascar Periwinkle (*Catharanthus roseus*) plant**
ÇELİK Ö., MERİÇ S., AYAN A., TAS M., AVCILAR C., ATAK Ç.
European Biotechnology Congress, Dubrovnik, Hırvatistan, 25 - 27 Mayıs 2017
- XVI. **Inducing salt tolerance in rice (*Oryza sativa* L.) varieties by gamma radiation**
AYAN A., ÇELİK Ö., MERİÇ S., ATAK Ç.
European Biotechnology Congress, Dubrovnik, Hırvatistan, 25 - 27 Mayıs 2017
- XVII. **Investigation of horizontal gene transfer (HGT) from genetically modified plants to bacteria**
OZBİLGİC R., MERİÇ S., ŞAHİN O., TOMBUL N., ARI Ş.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Türkiye, 3 - 08 Eylül 2016,

Metrikler

Yayın: 39

Atıf (WoS): 26

Atıf (Scopus): 28

H-İndeks (WoS): 3

H-İndeks (Scopus): 4