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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Biyomühendislik (Dr), Turkey 2020 - Continues

Postgraduate, Istanbul Kultur University, Lisansüstü Eğitim Enstitüsü, Moleküler Biyoloji Ve Genetik (YI) (Tezli), Turkey 2017 - 2020

Undergraduate, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, Turkey 2011 - 2015

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Plant Biology, Bioinformatics, Molecular Biology and Genetics

Academic Titles / Tasks

Research Assistant, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2019 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- Biochemical and Proteomic Analyses in Drought-Tolerant Wheat Mutants Obtained by Gamma Irradiation**
Sen A., GÜMÜŞ T., Temel A., Ozturk I., Celik O.
PLANTS-BASEL, vol.13, no.19, 2024 (SCI-Expanded)
- 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)

Books

- I. **Stress Memory and Priming Applications in Plants: Potential for Breeders**
Gümüş T., Aydın T., Gündüz B., Meriç S., Ayan A., Atak Ç.
in: Recent Trends in Plant Breeding and Genetic Improvement, Mohamed A. El-Esawi, Editor, IntechOpen, London, pp.71-94, 2023
- II. **Transgenic Plants in Heat Stress Adaptation: Present Achievements and Prospects**
Ayan A., Meriç S., Gümüş T., Atak Ç.
in: Abiotic Stress in Plants - Adaptations to Climate Change, Manuel Oliveira, Anabela A. Fernandes Silva, Editor, IntechOpen, London, pp.123-153, 2023
- III. **Plant Abiotic Stress Factors – Current Challenges of Last Decades and Future Threats**
Gümüş T., Meriç S., Ayan A., Atak Ç.
in: Plant Abiotic Stress Responses and Tolerance Mechanisms, Saddam Hussain, Editor, IntechOpen, London, pp.1-27, 2023
- IV. **Current Strategies and Future of Mutation Breeding in Soybean Improvement**
Ayan A., Meriç S., Gümüş T., Atak Ç.
in: Soybean - Recent Advances in Research and Applications, Takuji Ohshima, Editor, IntechOpen, London, pp.137-158, 2022
- V. **Plant-based Vaccines: The Future of Preventive Healthcare?**
Ayan A., Meriç S., Gümüş T.
in: Botany Recent Advances and Applications, Bimal Kumar Ghimire, Editor, IntechOpen, London, pp.57-91, 2021

Refereed Congress / Symposium Publications in Proceedings

- 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, Turkey, 11 October 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, Turkey, 20 - 22 September 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, Turkey, 14 - 16 December 2022, pp.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, Turkey, 31 August - 02 September 2022, pp.283
- V. **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.
Third International Green Biotechnology Congress, SARAYBOSNA, Bosnia And Herzegovina, 30 September 2022
- VI. **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, Bosnia And Herzegovina, 30 September - 02 October 2021
- VII. **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, Bosnia And Herzegovina, 30 September - 02 October 2021, pp.41

VIII. 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, Turkey, 9 - 11 September 2019

Metrics

Publication: 15