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Education Information

Doctorate, Van Yüzüncü Yil University, Ziraat Fakültesi, Bitki Koruma Bölümü, Turkey 2017 - 2022

Postgraduate, Iğdir University, Ziraat Fakültesi, Bahçe Bitkileri , Turkey 2014 - 2018

Undergraduate, Erciyes University, Fen Fakültesi, Biyoloji , Turkey 2007 - 2011

Research Areas

Life Sciences, Molecular Biology and Genetics, Plant Molecular Genetics, Natural Sciences

Academic Titles / Tasks

Research Assistant, Van Yüzüncü Yil University, Fen Fakültesi, Moleküler Biyoloji ve Genetik Bölümü, 2016 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluation of genetic diversity and population structure of peach (*Prunus persica* L.) genotypes using inter-simple sequence repeat (ISSR) markers**
Demirel S., Pehlivan M., ASLANTAŞ R.
Genetic Resources and Crop Evolution, vol.71, no.3, pp.1301-1312, 2024 (SCI-Expanded)
- II. **Revealing Genetic Diversity and Population Structure in Türkiye's Wheat Germplasm Using iPBS-Retrotransposon Markers**
Demirel F., Yıldırım B., Eren B., Demirel S., Türkoğlu A., HALİLOĞLU K., Nowosad K., Bujak H., Bocianowski J.
Agronomy, vol.14, no.2, 2024 (SCI-Expanded)
- III. **Molecular identification and population structure of emmer and einkorn wheat lines with different ploidy levels using SSR markers**
Demirel S., Demirel F.
Genetic Resources and Crop Evolution, vol.71, no.1, pp.363-372, 2024 (SCI-Expanded)
- IV. **Coat protein of alfalfa mosaic alfamovirus (AMV) from Türkiye: genetic inference and in silico docking analysis for potential antiphytoviral purposes**
Demirel S., Güller A., Usta M., Kurt Z., Korkmaz G.
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- V. **Machine Learning Analysis of the Impact of Silver Nitrate and Silver Nanoparticles on Wheat**

(Triticum aestivum L.): Callus Induction, Plant Regeneration, and DNA Methylation

Türkoğlu A., HALILOĞLU K., Demirel F., AYDIN M., ÇİÇEK S., YİĞİDER E., Demirel S., Piekutowska M., Szulc P., Niedbała G.

Plants, vol.12, no.24, 2023 (SCI-Expanded)

- VI. **Usage of Machine Learning Algorithms for Establishing an Effective Protocol for the In Vitro Micropropagation Ability of Black Chokeberry (Aronia melanocarpa (Michx.) Elliott)**
Demirel F., Uğur R., Popescu G. C., Demirel S., Popescu M.
Horticulturae, vol.9, no.10, 2023 (SCI-Expanded)
- VII. **Genetic relationships of salep orchid species and gene flow among Serapias vomeracea x Anacamptis morio hybrids**
Palaz E. B., DEMİREL F., Adali S., Demirel S., YILMAZ A.
PLANT BIOTECHNOLOGY REPORTS, vol.17, no.2, pp.315-327, 2023 (SCI-Expanded)
- VIII. **Assessment of genetic diversity and population structure in local alfalfa genotypes using iPBS molecular markers**
EREN B., KESKİN B., DEMİREL F., Demirel S., Turkoglu A., YILMAZ A., HALILOĞLU K.
GENETIC RESOURCES AND CROP EVOLUTION, vol.70, no.2, pp.617-628, 2023 (SCI-Expanded)
- IX. **New insights into tomato spotted wilt orthotospovirus (TSWV) infections in Türkiye: Molecular detection, phylogenetic analysis, and in silico docking study**
Usta M., Guller A., Demirel S., Korkmaz G., Kurt Z.
Notulae Botanicae Horti Agrobotanici Cluj-Napoca, vol.51, no.3, 2023 (SCI-Expanded)
- X. **Molecular and agro-morphological characterization of ancient wheat landraces of turkey**
GÜRCAN K., DEMİREL F., TEKİN M., Demirel S., AKAR T.
BMC PLANT BIOLOGY, vol.17, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **First Report of Natural Infection of Watermelon Mosaic Virus (WMV) Infecting Bottle Gourd and Snake Melon Su Kabağı ve Acur'da Doğal Enfeksiyona Neden Olan Karpuz Mozaik Virüsü (WMV)'nün İlk Raporu**
Güller A., Usta M., Korkmaz G., Demirel S.
Journal of Tekirdag Agricultural Faculty, vol.21, no.1, pp.206-218, 2024 (ESCI)
- II. **Genetic Diversity of Cucumber mosaic virus in Cucumber Plants Grown in Diyarbakır**
GÜLLER A., DEMİREL S., USTA M., KORKMAZ G.
Türk Doğa ve Fen Dergisi, vol.13, no.1, pp.1-6, 2024 (Peer-Reviewed Journal)
- III. **İğdir İli Kabakgil Bitkilerinde Bazı Mozaik Hastalıklarının In Siliko ve Moleküler Analizi**
GÜLLER A., USTA M., Gülistan K., DEMİREL S.
TURKISH JOURNAL OF AGRICULTURAL AND NATURAL SCIENCE, vol.11, no.1, pp.90-103, 2024 (Peer-Reviewed Journal)
- IV. **Presence of 'Candidatus phytoplasma trifolii' in pepper plants showing yellowing and bushy appearance from Iğdır province of Turkey**
GÜLLER A., USTA M., KORKMAZ G., DEMİREL S., KURT Z.
Ege Üniversitesi Ziraat Fakültesi Dergisi, vol.59, no.3, pp.429-437, 2022 (Scopus)
- V. **Potato virus S (PVS)-Bitlis izolatının Kılıf Proteininin in silico Karakterizasyonu ve Konak Proteini ile Docking Analizi**
Korkmaz G., USTA M., DEMİREL S.
Journal of Agriculture, vol.5, 2022 (Peer-Reviewed Journal)
- VI. **Biotechnological Advancements in Coriander (Coriandrum sativum L.)**
YILMAZ A., YILMAZ H., TURAN SİRKE S., ÇELİK A., NADEEM M. A., DEMİREL F., DEMİREL S., EREN B., EMİRALİOĞLU O., ARSLAN M.
Avrupa Bilim ve Teknoloji Dergisi, 2022 (Peer-Reviewed Journal)

- VII. **In silico Analysis of Ribosome-Inactivating Protein (Tritin) from Common Wheat Plants (*Triticum aestivum* L.**
Demirel S., Usta M., Güller A.
European Journal of Science and Technology, no.33, pp.79-87, 2022 (Peer-Reviewed Journal)
- VIII. **Bazı Soya (*Glycine max* L.) Çeşitlerinin IPBS Markörleriyle Moleküler Karakterizasyonu**
KUMLAY A. M., DEMİREL S., DEMİREL F., YILDIRIM B.
Yuzuncu Yil University Journal of Agricultural Sciences, vol.31, no.1, pp.11-18, 2021 (Scopus)
- IX. **Molecular identification of 'Candidatus *Phytoplasma solani*' using SecY and Vmp1 Genes in Tomato Plants from Van province Van'dan Domates Bitkilerinde SecY ve Vmp1 Genlerini Kullanarak 'Candidatus *Phytoplasma solani*'nin Moleküler Tanımlanması**
Usta M., Güller A., Demirel S.
Yuzuncu Yil University Journal of Agricultural Sciences, vol.31, no.4, pp.951-960, 2021 (Peer-Reviewed Journal)
- X. **MIRACLE PLANT: BLACK CHOKEBERRY (*Aronia melanocarpa*)**
YILMAZ A., GÜLER E., SOYDEMİR H. E., DEMİREL S., MOLLAHALİLOĞLU S., KARADENİZ T., ÇİFTÇİ V.
MAS Journal of Applied Sciences, vol.6, 2021 (Peer-Reviewed Journal)
- XI. **Bazı Pamuk Çeşitlerinde iPBS Analiziyle Genetik Varyasyonun Ortaya Çıkarılması**
KUMLAY A. M., EREN B., DEMİREL S., DEMİREL F., YILDIRIM B.
Avrupa Bilim ve Teknoloji Dergisi, vol.0, no.21, pp.67-73, 2021 (Peer-Reviewed Journal)
- XII. **CRISPR/Cas Technology in Resistance to Phytopathogens**
Demirel S., Usta M., Demirel F.
European Journal of Science and Technology, no.20, pp.693-702, 2020 (Peer-Reviewed Journal)
- XIII. **Fitopatojenlere Karşı Dayanıklılıkta CRISPR/Cas Teknolojisi**
DEMİREL S., USTA M., DEMİREL F.
Avrupa Bilim ve Teknoloji Dergisi, vol.0, no.20, pp.693-702, 2020 (Peer-Reviewed Journal)
- XIV. **Flow cytometry and plant breeding**
DEMİREL F., EREN B., DEMİREL S., EROL A.
Bursa Uludağ Üniversitesi Ziraat Fakültesi Dergisi (Online), vol.34, no.1, pp.213-223, 2020 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Novel Approach: Targeted Genom Editing Through CRISPR/Cas Model in Crop Plants**
Demirel F., Demirel S., Eren B., Say A., Kumlay A. M.
I. International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, pp.14
- II. **Use of Ribosome-Inactivating Proteins (RİPs) in Agriculture**
Demirel S., Turan Sirke S., Yılmaz H.
International Conference on Global Practice of Multidisciplinary Scientific Studies-VI, Lisbon, Portugal, 9 - 16 April 2024
- III. **Use of Chloroplast Genomes in Plant Breeding**
Turan Sirke S., Yılmaz H., Demirel S.
International Conference on Global Practice of Multidisciplinary Scientific Studies-VI, Lisbon, Portugal, 9 - 16 April 2024
- IV. **The Role of WRKY Transcription Factors in Drought Stress Tolerance of Plants**
Yılmaz H., Demirel S., Turan Sirke S.
International Conference on Global Practice of Multidisciplinary Scientific Studies-VI, Lisbon, Portugal, 9 - 16 April 2024
- V. **Molecular Phylogeny of Watermelon mosaic virus (WMV) in Squash Plant Grown in Diyarbakir Province**
Korkmaz G., Demirel S., Usta M., Güller A.
ISPEC 6th INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCE and RURAL DEVELOPMENT, Siirt, Turkey, 16 - 18 May 2021, pp.98-99

- VI. **Molecular Phylogeny of Alfalfa Mosaic Virus (AMV) in Naturally Infected Alfalfa Plants in Iğdır Province**
Demirel S., Korkmaz G., Usta M., Güller A.
IGDIR INTERNATIONAL APPLIED SCIENCES CONGRESS, Iğdır, Turkey, 14 April 2021, pp.153
- VII. **Retrotransposon-Based Molecular Markers for Genetic Diversity**
Demirel S., Demirel F., Eren B.
1. INTERNATIONAL GAP AGRICULTURE LIVESTOCK CONGRESS, Şanlıurfa, Turkey, 25 - 27 April 2018, pp.602
- VIII. **Bioinformatics-Based Evaluation of Phenylalanine Ammonia-lyase (PAL) of Bread Wheat**
Demirel S., Demirel F., Say A., Eren B.
I. International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, pp.16
- IX. **Plum Pox Virus and Molecular Resistance**
Demirel S., Say A., Demirel F.
I. International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, pp.27
- X. **Analysis as Bioinformatic of ERD4 (Early Responsive to Dehydration) Protein in Some Plants**
Demirel F., Demirel S., Eren B., Say A., Yıldırım B.
I. International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, pp.15
- XI. **In-silico Analysis in Chickpea for Proteins of Heat Shock Transcription Factors**
Demirel F., Demirel S., Eren B.
1. INTERNATIONAL GAP AGRICULTURE LIVESTOCK CONGRESS, Şanlıurfa, Turkey, 25 - 27 April 2018, pp.613
- XII. **Analysis of GST Protein with Bioinformatic Tools in Barley**
Demirel S., Demirel F., Eren B., Kumlay A. M.
1. INTERNATIONAL GAP AGRICULTURE LIVESTOCK CONGRESS, Şanlıurfa, Turkey, 25 - 27 April 2018, pp.610
- XIII. **Comparative Bioinformatic Analysis of Dehydrin Proteins in Alfalfa**
Demirel S., Demirel F., Eren B.
1. INTERNATIONAL GAP AGRICULTURE LIVESTOCK CONGRESS, Şanlıurfa, Turkey, 25 - 27 April 2018, pp.607
- XIV. **Medicago truncatula as Model Plant of Legu**
Eren B., Demirel F., Demirel S.
1. INTERNATIONAL GAP AGRICULTURE LIVESTOCK CONGRESS, Şanlıurfa, Turkey, 25 - 27 April 2018, pp.607
- XV. **Bioinformatic Evaluation of Chitinase Proteins in Bread Whe**
Demirel F., Demirel S., Eren B.
I. International Agricultural Science Congress, Şanlıurfa, Turkey, 25 - 27 April 2018, pp.608
- XVI. **Assesment of Mitogen Activated Protein Kinases in Oryza sativa**
Demirel F., Demirel S., Eren B.
1. INTERNATIONAL GAP AGRICULTURE LIVESTOCK CONGRESS , Şanlıurfa, Turkey, 25 - 27 April 2018, pp.609
- XVII. **Effects on Biodiversity of Organic and Intensive Agriculture**
Demirel S., Demirel F., Eren B.
II. International Iğdır Symposium, Iğdır, Turkey, 9 - 11 October 2017, pp.392
- XVIII. **Organic Agriculture and Climate Change**
Demirel F., Demirel S., Eren B.
II. International Iğdır Symposium, Iğdır, Turkey, 9 - 11 October 2017, pp.390
- XIX. **Organic Production Situation in Iğdır Province**
Demirel F., Demirel S., Eren B.
II. International Iğdır Symposium, Iğdır, Turkey, 9 - 11 October 2017, pp.391
- XX. **Bioinformatic Analysis of LEA Proteins Associated with Salt Stress in Poacea**
DEMİREL F., DEMİREL S.
27th International Scientific- Expert Congress of Agriculture and Food Industry, Bursa, Turkey, 26 - 28 September 2016, pp.118
- XXI. **Potantial of DNA Barcoding of Turkey's Endemic Plant Species and Conservation of Endemic Plants**
Demirel S., DEMİREL F.
27th International Scientific- Expert Congress of Agriculture and Food Industry, Bursa, Turkey, 26 - 28 September 2016, pp.122

- XXII. **Plum pox virüs'ünün Bulaşıcı (Enfektif) Komplementer DNA (cDNA) Vektörünün Geliştirilmesi**
Demirel S., Akbulut M., Ulubaş Serçe Ç., Akbaş B., Kaymak S., Değirmenci K., Gürcan K.
Uluslararası Katılımlı Türkiye VI. Bitki Koruma Kongresi, Konya, Turkey, 5 - 08 September 2016, pp.572
- XXIII. **Buğday Tanesinde Gerçekleştirilen Proteomiks Çalışmalarının Önemi**
Demirel F., Demirel S., Metin Kumlay A., Yıldırım B.
I. Ulusal Tarımsal Biyoteknoloji Kongresi, Samsun, Turkey, 1 - 03 June 2016, pp.29
- XXIV. **Iğdır İlinde Ekonomik Açıdan Önemli Bazı Meyve Türleri ve Genetik Kaynaklarının In Vitro Muhafaza Olanakları**
Demirel S., Demirel F., Pehlivan M., Metin Kumlay A.
I. Ulusal Tarımsal Biyoteknoloji Kongresi, Samsun, Turkey, 1 - 03 June 2016, pp.30
- XXV. **Sustainable Agriculture and The Role of Biotechnology In The Future**
Demirel F., Demirel S.
2nd International Conference on Sustainable Agriculture and Environment, Konya, Turkey, 30 September - 03 October 2015, pp.257
- XXVI. **Gelecekte Buğday Üretiminde Klasik Bitki Islahı ve Biyoteknolojinin Rolü**
Demirel F., Demirel S., Yıldırım B., Metin Kumlay A.
Ulusal Bitki Biyolojisi Kongresi, Bolu, Turkey, 2 - 04 September 2015, pp.166
- XXVII. **Türkiye'den toplanan süs kabaklarının ISSR markırları kullanılarak genetik çeşitliliğin belirlenmesi**
Yetişir H., Comart S., Gürcan K.
10. Sebze Tarımı Sempozyumu, Tekirdağ, Turkey, 2 - 04 September 2014, vol.1, no.1, pp.553
- XXVIII. **Detection and Discrimination of Plum Pox Virus D, M and T strains with High resolution melting analysis**
Comart S., Gürcan K., Say A., Akbulut M., Ulubaş Serçe Ç., Kaymak S.
2nd International Symposium on Plum Pox Virus, Olomouc, Czech Republic, 3 - 06 September 2013, pp.20
- XXIX. **Plum Pox Virus D in Turkey**
Gürcan K., Ceylan A., Akbulut M., Comart S., Akbaş B., Ghaderi M.
2nd International Symposium on Plum Pox Virus, Olomouc, Czech Republic, 3 - 06 September 2013, pp.22

Supported Projects

Eroğlu A., Demirel S., DEMİREL F., EREN B., Project Supported by Higher Education Institutions, Kuraklık Stresine Maruz Kalan Siyez buğdayında (*Triticum monococcum*) Genetik ve Epigenetik Değişiklikler Üzerine Putresinin Etkisinin Belirlenmesi, 2019 - 2022

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