

## Res. Asst. Gökhan Boyno

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-3195-0749

Yoksis Researcher ID: 264108

### Education Information

Doctorate, Van Yüzüncü Yıl University, Ziraat Fakültesi, Fitopatoloji, Turkey 2019 - Continues

Postgraduate, Van Yüzüncü Yıl University, Ziraat Fakültesi, Fitopatoloji, Turkey 2017 - 2019

Undergraduate, Erciyes University, Seyrani Ziraat Fakültesi, Bitki Koruma , Turkey 2010 - 2014

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, DNA Markırları, Gen İfadesinin Belirlenmesinde Kullanılan Yöntemler ve Dizileme Teknolojileri Eğitimi, Çukurova Üniversitesi Biyoteknoloji Araştırma ve Uygulama Merkezi, 2018  
Quality Management, İyi Tarım Uygulamaları İç Kontrolörlük Sertifikası, TSE, 2016  
Other, Tarım Danışmanlığı Sertifikası, GTHB, 2016

### Dissertations

Postgraduate, VAN'DA DOMATES ALANLARINDAN İZOLE EDİLEN Alternaria solani (Ell. ve G. Martin) Sor.'NİN BİYOLOJİK MÜCADELE OLANAKLARININ BELİRLENMESİ, Van Yüzüncü Yıl University, Ziraat Fakültesi, Bitki Koruma/Fitopatoloji, 2019

### Research Areas

Agricultural Sciences, Agriculture, Plant Protection, Phytopathology

### Academic Titles / Tasks

Research Assistant, Van Yüzüncü Yıl University, Ziraat Fakültesi, Bitki Koruma Bölümü, 2017 - Continues

## **Academic and Administrative Experience**

Editorial Board, NSP journal-Microbiology and Biotechnology, Microbiology and Biotechnology, Microbiology and Biotechnology, 2023 - Continues

Editorial Board, Science Publishing Group/New York, NY 10020 U.S.A., American Journal of Agriculture and Forestry, 2022 - Continues

Copy Editor, Van Yüzüncü Yıl University, Ziraat Fakültesi, Bitki Koruma Bölümü, 2020 - Continues

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

- I. **The Effect of Arbuscular Mycorrhizal Fungi on Carbon Dioxide (CO<sub>2</sub>) Emission from Turfgrass Soil Under Different Irrigation Intervals**  
Boyno G., Yerli C., Çakmakçı T., Şahin Ü., Demir S.  
JOURNAL OF WATER AND CLIMATE CHANGE, vol.43, pp.1-15, 2024 (SCI-Expanded)
- II. **The Complex Interplay between Arbuscular Mycorrhizal Fungi and Strigolactone: Mechanisms, Synergies, Applications and Future Directions**  
Boyno G., Rezaee Danesh Y., Demir S., Teniz N., Mulet J. M., Porcel R.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.23, no.24, pp.1-29, 2023 (SCI-Expanded)
- III. **Biological Control of Three Fungal Diseases in Strawberry (*Fragaria × ananassa*) with Arbuscular Mycorrhizal Fungi**  
Demir S., Demirer Durak E., Güneş H., Boyno G., Mulet J. M., Rezaee Danesh Y., Porcel R.  
AGRONOMY, vol.13, no.9, pp.1-15, 2023 (SCI-Expanded)
- IV. **A New Technique for the Extraction of Arbuscular Mycorrhizae Fungal Spores from Rhizosphere**  
Boyno G., Demir S., Rezaee Danesh Y., Demirer Durak E., Çevik R., Farda B., Djebaili R., Pellegrini M.  
Journal of Fungi, vol.9, no.8, 2023 (SCI-Expanded)
- V. **Effects of Arbuscular Mycorrhizal Fungi on Carbon Dioxide (CO<sub>2</sub>) and Water (H<sub>2</sub>O) Emissions in Turfgrass Soil under Different Salinity Irrigation Levels**  
Boyno G., Yerli C., Çakmakçı T., Şahin Ü., Demir S.  
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.22, no.6, pp.1081-1090, 2023 (SCI-Expanded)
- VI. **EFFECTS OF ARBUSCLAR MYCORRHIZAL FUNGI ON CARBON DIOXIDE (CO<sub>2</sub>) AND WATER (H<sub>2</sub>O) EMISSIONS IN TURFGRASS SOIL UNDER DIFFERENT SALINITY IRRIGATION LEVELS**  
Boyno G., Yerli C., Çakmakçı T., Şahin Ü., Demir S.  
Environmental Engineering and Management Journal, vol.22, no.6, pp.1081-1090, 2023 (SCI-Expanded)
- VII. **Is the Arbuscular Mycorrhizal Fungus *Funneliformis mosseae* a Suitable Agent to Control Criconematid Populations?**  
Manteghi A., Rezaee Danesh Y., Hesar A. M., Demir S., Boyno G., Catani L., Semprucci F.  
Diversity, vol.14, no.11, 2022 (SCI-Expanded)
- VIII. **Genetic Diversity of *Trichoderma harzianum* Isolates in Sunflower Rhizosphere: The Application of the URP Molecular Marker**  
Danesh Y., Pellegrini M., Kariman K., Boyno G., Djebaili R., Farda B., Najafi S.  
SUSTAINABILITY, vol.14, no.22, pp.15111, 2022 (SCI-Expanded)
- IX. **Plant-mycorrhiza communication and mycorrhizae in inter-plant communication**  
Boyno G., Demir S.  
Symbiosis, vol.86, no.2, pp.155-168, 2022 (SCI-Expanded)
- X. **Effects of some biological agents on the growth and biochemical parameters of tomato plants infected with *Alternaria solani* (Ellis & Martin) Sorauer**  
Boyno G., Demir S., Rezaee Danesh Y.  
European Journal of Plant Pathology, vol.162, no.1, pp.19-29, 2022 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Rock Phosphate Solubilizing Potential of Soil Microorganisms: Advances in Sustainable Crop Production**  
Khoshru B., Nosratabad A. F., Mitra D., Chaithra M., Danesh Y., Boyno G., Chattaraj S., Priyadarshini A., Andelković S., Pellegrini M., et al.  
Bacteria, vol.2, no.2, pp.98-115, 2023 (Peer-Reviewed Journal)
- II. **The Effect of Clonostachys rosea (sch.) Schroers and Samuels Against Verticillium wilt (Verticillium dahliae Kleb.) and Early Blight [Alternaria solani (Ell. and G. Martin) Sor.] Diseases in Tomato Plants**  
Çevik R., Demir S., Türkölmez , Boyno G.  
Yüzüncü Yıl Üniversitesi Ziraat Fakültesi Tarım Bilimleri Dergisi, vol.32, no.2, pp.372-382, 2022 (Peer-Reviewed Journal)
- III. **Erciş Üzüm Çeşidine Bağ Küllemesi Hastalığına (Erysiphe necator Schwein) Karşı Mücadele Olanakları**  
Yıldırım E., Demir S., Boyno G.  
Ereğli Tarım Bilimleri Dergisi, vol.1, no.1, pp.20-26, 2021 (Peer-Reviewed Journal)
- IV. **Çeşitli Organik Atıkların Barbunya Fasulyesi (Phaseolus vulgaris L. var. Pinto) Bitkisinin Gelişimine ve Arbusküler Mikorhizal Funguslar (AMF)'a Etkisi**  
Güneş H., Boyno G., Demirer Durak E., Demir S.  
Türkiye Tarımsal Araştırmalar Dergisi, vol.8, no.2, pp.235-247, 2021 (Peer-Reviewed Journal)
- V. **The Effects of Essential Oils and Arbuscular Mycorrhizal Fungi on Decay Disease (Fusarium oxysporum f. sp. radicis lycopersici Jarvis & Shoemaker) of Root and Root Collar of Tomato**  
Bilici S., Demir S., Boyno G.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, no.2, pp.857-868, 2021 (Peer-Reviewed Journal)
- VI. **The Effect of Some Endophytic Bacteria Against Alternaria solani (Ell. & G. Martin) Sor. in Tomato**  
Boyno G., Demir S., Akköprü A.  
Uluslararası Tarım ve Yaban Hayati Bilimleri Dergisi , vol.6, no.3, pp.469-477, 2020 (Peer-Reviewed Journal)
- VII. **Determination of Effects of Worm Manure (Vermicompost) Application to Root Rot Disease Caused by Sclerotinia sclerotiorum (Lib.) de Bary on Tomato (Lycopersicon esculentum)**  
Yaviç Ş., Demir S., Boyno G.  
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.25, no.1, pp.13-20, 2020 (Peer-Reviewed Journal)
- VIII. **Bioremediation and using of fungi in bioremediation Biyoremediasyon ve fungusların biyoremediasyonda kullanılması**  
Vural A., Demir S., Boyno G.  
Yuzuncu Yıl University Journal of Agricultural Sciences, vol.28, no.4, pp.490-501, 2018 (Scopus)

## Books & Book Chapters

- I. **Plant growthpromoting rhizobacteria: their potential as biological control agents in sustainable agriculture**  
Rezaee Danesh Y., Pellegrini M., Akköprü A., Farda B., Boyno G., Djebaili R.  
in: Sustainable Agricultural Practices, Ajay Kumar,James F. White,Joginder Singh, Editor, Elsevier Science, Oxford/Amsterdam , Oxford, pp.145-159, 2024
- II. **Arbuscular mycorrhizal fungi in sustainable agriculture**  
Demir S., Rezaee Danesh Y., Demirer Durak E., Najafi S., Boyno G.  
in: Sustainable Agricultural Practices, Ajay Kumar,James F. White,Joginder Singh, Editor, Elsevier Science, Oxford/Amsterdam , London, pp.71-100, 2024
- III. **Commercialization of Arbuscular Mycorrhizal Technology in Sustainable Agriculture: Current Knowledge and Challenges in Agroforestry**  
Boyno G., Ali Ansari R., Demirer Durak E., Güneş H., Çevik R., Demir S.

in: Mycorrhizal Symbiosis and Agroecosystem Reclamation, Rizwan Ali Ansari,Rose Rizvi,Irshad Mahmood, Editor, Springer, London/Berlin , London, pp.173-195, 2024

**IV. Arbuscular mycorrhizal fungi in biotic and abiotic stress conditions: function and management in horticulture**

Demir S., Danesh Y. R., Boyno G., Najafi S.

in: Sustainable Horticulture: Microbial inoculants and stress interaction, Musa Seymen,Ertan S Kurtar,Ceknas Erdinc,Ajar Kumar, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.157-183, 2022

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Azaltılmış Bakır Oksiklorid Dozları İle Arbüsküller Mikorizal Fungus (Amf)'un Domatese Fusarium oxysporum'a Karşı Etkisinin Simptomolojik Olarak İncelenmesi.**  
BOYNO G., TENİZ N., DEMİR S.  
6. International Cukurova Agriculture And Veterinary Congress, Adana, Turkey, 22 - 24 December 2023
- II. **Domates-Arbüsküller Mikorizal Fungus (Amf)-Fungisit- Alternaria solani Patosisteminde Simptomolojik Değerlendirmeler.**  
BOYNO G., TENİZ N., DEMİR S.  
6. International Cukurova Agriculture And Veterinary Congress, Adana, Turkey, 22 - 24 December 2023
- III. **Interaction of Saccharomyces cerevisiae With Some Arbuscular Mycorrhizal Fungi (AMF) in Strawberry**  
Boyno G., Güneş H., Demirer Durak E., Demir S.  
CUKUROVA 9th INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE, Adana, Turkey, 9 - 11 October 2022, pp.195-201
- IV. **A NEW TECHNIQUE FOR ENUMERATION OF ARBUSCULAR MYCORRHIZAL FUNGUS AMF SPORES FROM SOIL ULTRASONICATION TECHNIQUE.**  
Boyno G., Rezaee Danesh Y., Demirer Durak E., Çevik R., Demir S.  
3rd INTERNATIONAL EURASIAN MYCOLOGY CONGRESS (EMC'22), Van, Turkey, 7 - 09 September 2022, pp.202
- V. **A CLOSE FRIENDSHIP IN SUBSOIL ARBUSCULAR MYCORRHIZA AND CLONOSTACHYS ROSEA**  
Boyno G., Çevik R., Rezaee Danesh Y., Demir S.  
3rd INTERNATIONAL EURASIAN MYCOLOGY CONGRESS (EMC'22), Van, Turkey, 7 - 09 September 2022, pp.230
- VI. **The EFFECT of Clonostachys rosea AGAINST Pythium debaryanum and Sclerotinia sclerotiorum in SOME REDUCED-DOSAGE FUNGICIDE MEDIA**  
Boyno G., Çevik R., Demir S.  
IV-INTERNATIONAL CONFERENCE OF FOOD, AGRICULTURE, AND VETERINARY SCIENCES, Van, Turkey, 27 - 28 May 2022, pp.871-877
- VII. **THE EFFECTS of SOME ORGANIC FERTILIZERS and GROWTH REGULATORS on GERMINATION and Sclerotinia sclerotiorum in TOMATOES In vitro CONDITIONS**  
Tatar N. A., Aydoğan E. H., Calayır O., Boyno G., Demirer Durak E., Demir S.  
IV-INTERNATIONAL CONFERENCE OF FOOD, AGRICULTURE, AND VETERINARY SCIENCES, Van, Turkey, 27 - 28 May 2022, pp.889-894
- VIII. **Determination of Biological Control Possibilities of Alternaria solani (Ell. and G. Martin) Sor. Isolated from Tomato Fields in Van**  
Boyno G., Demir S.  
. 8. Uluslararası Katılımlı Bitki Koruma Kongresi, Bolu, Turkey, 24 - 28 August 2021
- IX. **Biological Control of Some Fungal Diseases in Strawberry with Arbuscular Mycorrhizal Fungi (AMF) and Saccharomyces cerevisiae**  
Demir S., Demirer Durak E., Boyno G., Güneş H.  
8. Uluslararası Katılımlı Bitki Koruma Kongresi, Bolu, Turkey, 24 - 28 August 2021
- X. **Sürdürülebilir tarımda atık yönetimi.**  
Güneş H., BOYNO G., DEMİRER DURAK E., DEMİR S.

- 4th International Congress on Agriculture, Environment and Health, Aydin, Turkey, 20 May 2021, pp.752-762
- XI. Pestisitlerin Arbusküler Mikorizal Funguslar (AMF)'a Etkisi.  
BOYNO G., Güneş H., DEMİRER DURAK E., DEMİR S.  
4th International Congress on Agriculture, Environment and Health, Aydin, Turkey, 20 May 2021, pp.740-750
- XII. INVESTIGATION OF THE EFFECT OF SOME ARBUSCULAR MYCORRHIZAL FUNGI (AMF) SPECIES ON SUGAR BEET VARIETIES  
Boyno G., Güneş H., Demir S.  
INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCE AND RURAL DEVELOPMENT-III, Van, Turkey, 20 - 22 December 2019, pp.748-755
- XIII. DETERMINATION OF SYMBIOTIC EFFECT ON ARBUSCULAR MYCORIZAL FUNGUS (AMF) APPLICATION TO SOME BEAN TYPES  
Vural A., Demir S., Boyno G.  
INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCE AND RURAL DEVELOPMENT-III, Van, Turkey, 20 - 22 December 2019, pp.191-193
- XIV. BIOLOGICAL CONTROL OF POTATO COMMON SCAB (*Streptomyces scabies* (Thaxter) Lambert and Loria) AND Trichoderma ISOLATES ISOLATED FROM POTATOES IN IN-VITRO CONDITIONS  
Boyno G., Ünal D., Oğsar İ. N., Demirer Durak E.  
INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCE AND RURAL DEVELOPMENT-III, Van, Turkey, 20 - 22 December 2019, pp.756-763
- XV. BAZI ARBÜSKÜLER MİKORİZAL FUNGUS (AMF) TÜRLERİNİN ŞEKER PANCARI ÇEŞİTLERİ ÜZERİNDEKİ ETKİSİNİN ARAŞTIRILMASI  
Boyno G., Güneş H., Demir S.  
3. ULUSLARARASI TARIM, HAYVANCILIK ve KIRSAL KALKINMA KONGRESİ, Van, Turkey, 20 - 22 December 2019, pp.748-755
- XVI. Pathogenicity of *Alternaria solani* (Ell. & G. Martin) Sor. Isolates Isolated in Tomato Areas in Van Province and The Effect of Trichoderma spp. Antagonists in Vitro Conditions  
Boyno G., Demirer Durak E., GÜNEŞ H., Demir S.  
International Erciyes Agriculture, Animal & Food Sciences Conference, Kayseri, Turkey, 24 - 27 April 2019, pp.201-205
- XVII. The Effect of Different Doses of Whey on Some Fungi in Vitro Conditions  
BOYNO E., Boyno G., Ocak E., Demir S.  
International Erciyes Agriculture, Animal & Food Sciences Conference, Kayseri, Turkey, 24 - 27 April 2019, pp.169
- XVIII. VAN'DA DOMATES ALANLARINDAN İZOLE EDİLEN *Alternaria solani* (Ell. & G. Martin) SOR. İZOLATLARININ PATOJENİTELERİ VE IN VITRO' DA Trichoderma TÜRLERİNİN ANTAGONİSTİK ETKİSİ  
Boyno G., Demirer Durak E., GÜNEŞ H., Demir S.  
International Erciyes Agriculture, Animal & Food Sciences Conference, Kayseri, Turkey, 24 - 27 April 2019, pp.201-205
- XIX. The Effects Some Bio-agents and Organic Substances to *Verticillium Dahliae*  
Güneş H., Boyno G., Demirer Durak E., Demir S.  
1?? International Congress on Sustainable Agriculture and Technology, Gaziantep, Turkey, 1 - 03 April 2019, pp.518
- XX. Molecular markers used for determination of resistance gene(s) against pathogens in plants  
Boyno G., Demir S.  
Türkiye VII. Bitki Koruma Kongresi (Uluslararası Katılımlı), Muğla, Turkey, 14 - 17 November 2018, pp.147-160
- XXI. Biyoremediasyon ve fungusların biyoremediasyon'da kullanılması  
Vural A., Demir S., Boyno G.  
Türkiye VII. Bitki Koruma Kongresi (Uluslararası Katılımlı), Muğla, Turkey, 14 - 17 November 2018, pp.214
- XXII. Control of Damping-off Disease Caused by *Rhizoctonia solani* kühn on Cucumber Seedlings in Duhok Region of Northern-Iraq  
SITOO N. M., DEMİR S., HALEEM R. A., BOYNO G.  
International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, pp.641

- XXIII. Effect of Different Doses of Vermicompost Application to Some Fungi in Vitro Conditions**  
BOYNO G., DEMİRER DURAK E., DEMİR S.  
International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, pp.548
- XXIV. In Vitro Antagonistic Activities of Trichoderma spp. to Rhizoctonia solani and Fusarium oxysporum at Different Temperatures**  
TENİZ N., BOYNO G., ZRAR RESUL S., DEMİRER DURAK E.  
International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, pp.618

## **Supported Projects**

Demirer Durak E., KAYA ÖZDOĞAN D., SAGUN Ç., Boyno G., Demir S., DANESH Y. R., Project Supported by Higher Education Institutions, Van İlinde Yetişirilen Domates Bitkilerinin Rizosferlerindeki Arbüsüler Mikorhizal Fungus (AMF) Ve Trichoderma spp. Popülasyonlarının Karakterizasyonu, 2022 - Continues

Demir S., Boyno G., Project Supported by Higher Education Institutions, Arbusküller Mikorizal Fungus AMF ve Strigolakton İnteraksiyonunun Farklı Buğday Çeşitlerinde Fusarium culmorum WG Smith Saccardoa Karşı Etkileri, 2023 - 2025

Demir S., Gülser F., Demirer Durak E., Erdinç Ç., TUBITAK Project, Domateste (*Solanum Lycopersicum L.*) Biyotik Ve Abiyotik Stres Faktörlerine Karşı Arbusküller Mikorhizal Fungus (Amf) Ve Biyoçarın Etkisi, 2021 - 2024

Demir S., ÇEVİK R., Boyno G., Project Supported by Higher Education Institutions, Dozları Azaltılmış Fungisitlerin Arbusküller Mikorizal Fungus AMF ile İnteraksiyonunun Domateste *Alternaria solani* Ellis Martin Sorauer ve *Fusarium oxysporum* Schlechta Karşı Etkisi, 2022 - 2023

Demir S., GÜNEŞ H., Demirer Durak E., Boyno G., Project Supported by Higher Education Institutions, Çilekte sorun olan bazı fungal hastalıkların Arbusküller Mikorhizal Fungus AMFlar ve *Saccharomyces cerevisiae* ile biyolojik mücadele, 2019 - 2021

Demir S., Boyno G., Project Supported by Higher Education Institutions, Van'da Domates Alanlarından İzole Edilen *Alternaria solani* (Ell. ve G. Martin) Sor.'nin Biyolojik Mücadele Olanaklarının Belirlenmesi, 2018 - 2019

## **Memberships / Tasks in Scientific Organizations**

TMMOB Ziraat Mühendisleri Odası, Member, 2015 - Continues, Turkey

## **Scientific Refereeing**

JOURNAL OF PLANT INTERACTIONS, SCI Journal, June 2022  
EUROPEAN JOURNAL OF PLANT PATHOLOGY, SCI Journal, January 2022

## **Scientific Research / Working Group Memberships**

Yüzüncü Yıl Üniversitesi Tarım Bilimleri Dergisi, Van Yüzüncü Yıl University, Turkey, <http://dergipark.gov.tr/yyutbd>, 2021 - Continues

## **Metrics**

Publication: 46  
Citation (WoS): 83  
Citation (Scopus): 83  
H-Index (WoS): 5

H-Index (Scopus): 5

## Scholarships

Domateste (*Solanum lycopersicum* L.) Biyotik ve Abiyotik Stres Faktörlerine Karşı Arbusküller Mikorrhizal Fungus (AMF) ve Biyoçarın Etkisi, TUBITAK, 2021 - Continues

## Non Academic Experience

Business Establishment Private, Topuzlar Tarım Zirai İlaç Bayii Ve Danışmanlık Hiz. Ltdi Şti.