

ZİHNİ DEMİRBAĞ

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International Researcher IDs

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Publons / Web Of Science ResearcherID: E-3860-2015

Yoksis Researcher ID: 3627



Biography

He was born in a village at Eastern Anatolia region of Turkey, Elazig, in 1959. After growing up in that village, he had completed his elementary school in the same place. Then, he moved to Elazig for rest of his education. He started his higher education (biology) at Fırat University in his hometown, Elazig in 1981. In 1981-1986 he had been trained as a biologist, then, he moved to Northern region of Turkey, Trabzon where he is still living now to work as Research Assistant at Karadeniz Technical University (KTU). Unfortunately Turkey did not have significant resources for good training in research science at that time. Therefore, he went to the United States, Texas Tech University for his post graduate studies in 1988. He worked very hard during his PhD studies between 1988 and 1993. Molecular virology was always a fascinating field for him to understand virus-host interaction at molecular level. He spent most of his carrier to study the pathogen (viruses, bacteria, and fungi) and host (various pest insects) interactions which is important to develop environmentally friendly bio pesticide and gene expression and gene therapy vectors. After he returned from USA to Turkey in 1993, he had been struggling to establish an advance laboratory to continue his research and to train young scientists. He went abroad to update his scientific skills and to keep scientific contacts several times. Currently, he has a very good laboratory with modern equipment and more than 10 graduate students working on insect pathogens. In addition several official duties at KTU (The Chairman of Molecular Biotechnology division, The Member of Quality Control Committee, ECTS/DS Chancellor, Coordinator of International Relations, Advisor to the Rector), he has become the leader of several scientific activities in Turkey, including 43rd Annual Meeting of Society for Invertebrate Pathology (2010, Chair), 1st EurAsian Congress on Molecular Biotechnology (2001, Chair), 1st Entomopathogens and Microbial Control (2007, Chair), 1st Molecular Biotechnology Spring School (2006, Chair), establishment Molecular Biotechnology graduate program. He married with Birsal Canan, and they have three children (Belemir, Taha and Atahan).

Learning Knowledge

Doctorate
1988 - 1993

Texas Tech University, The Graduate School, Biology/Microbiology, United States Of America

Undergraduate
1981 - 1986

Fırat University, Faculty Of Arts And Sciences, Biyoloji, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Comparative replication of Autographa californica nuclear polyhedrosis virus in abortive and productive infection of insect cell lines, Texas Tech University, Life Science, Biology, 1993

Academic Titles / Tasks

Professor 2002 - Continues	Karadeniz Technical University, Fen Edebiyat Fakültesi, Biyoloji
Professor 2004 - 2005	University of Florida, College Of Medicine, Department Of Molecular Genetics And Microbiology
Associate Professor 1997 - 2002	Karadeniz Technical University, Fen Edebiyat Fakültesi, Biyoloji
Associate Professor 1999 - 1999	Texas Tech University, College Of Arts & Sciences, Biological Sciences
Assistant Professor 1993 - 1997	Karadeniz Technical University, Fen Edebiyat Fakültesi, Biyoloji
Other 1995 - 1995	Wageningen Agricultural University, Experimental Plant Sciences, Virology
Research Assistant PhD 1993 - 1993	Karadeniz Technical University, Fen Edebiyat Fakültesi, Biyoloji
Research Assistant 1988 - 1993	Texas Tech University, The Graduate School, Biology
Research Assistant 1986 - 1988	Karadeniz Technical University, Fen Edebiyat Fakültesi, Biyoloji

Supported Projects

1. Muratoğlu H., Demirbağ Z., TÜBİTAK Project, Amsacta moorei entomopoxvirus (AMEV) Protein Kinazı (AMV197)'nin Fosforillediği Konak Hücre Proteinlerinin Belirlenmesi, 2020 - 2023
2. KALAY E., KILIÇ A. O., YENİLMEZ E., ALİYAZICIOĞLU Y., SERDAR B., DEMİRBAĞ Z., KADIOĞLU A., DEĞİRMENCİOĞLU İ., DEMİR İ., KUTRUP B., et al., Project Supported by Higher Education Institutions, Karadeniz Teknik Üniversitesi Lazer Taramalı Konfokal Mikroskop Ünitesinin Kurulması, 2018 - 2019
3. Demirbağ Z., Muratoğlu H., TÜBİTAK Project, Amsacta Moorei Entomopoksvirüs'ün Konağa Tutunma Mekanizmasının Aydınlatılması, 2013 - 2016
4. DEMİRBAĞ Z., TÜBİTAK Project, Chlio Iridescent Virüse Ait Yapısal Proteinler Arasındaki Etkileşimlerin Belirlenmesi, 2013 - 2014

5. DEMİRBAĞ Z., TUBITAK Project, Türkiye Orijinli Pestivirus İzolatlarından İmmunodominant E Gen Bölgesinin Karakterizasyonu ve Baculovirus Ekspresyon Sistemi Kullanılarak E Gen Bölgesine Ait Rekombinant Protein Üretimi, 2012 - 2013
6. Demirbağ Z., Nalçacıoğlu R., Muratoğlu H., Arif B., TUBITAK Project, Amsacta Moorei Entomopoksvirüs Serin/Treonin Protein Kinaz Geninin İşlevsel Ve Regülasyon Analizi, 2011 - 2013
7. SEZEN K., DEMİRBAĞ Z., TUBITAK Project, Amv133 Açık Okuma Zincirinin Moleküler Karakterizasyonu ve Amsacta Moori Entomopoksvirüs (Amepv) Replikasyonuna Etkisi, 2010 - 2012
8. Demirbağ Z., Nalçacıoğlu R., Muratoğlu H., TUBITAK Project, Amsacta moorei Entomopoksvirus Protein Kinaz Geninin Karakterizasyonu ve Fonksiyonel Analizi, 2006 - 2009
9. DEMİRBAĞ Z., TUBITAK Project, Chilo İridescent Virüs (CIV)'ün Bombyx mori Böcek Hücre Kültüründe Replikasyonu, DNA Polimeraz Geninin Promotor Bölgesinin Detaylı İncelenmesi ve Transaktivatör Proteinlerinin Tespiti, 2005 - 2008
10. DEMİR İ., DEMİRBAĞ Z., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Doğu Karadeniz Bölgesinde Yaygın Olan Önemli Orman Zararlılarının Mikrobiyal Floraları ve Biyolojik Kontrolleri, 2004 - 2007
11. DEMİRBAĞ Z., TUBITAK Project, Genetik Manipulasyonlarla Bacillus thuringiensis Alttür tenebrionis'in Larvisidal Aktivitesinin ve Spektrumunun Arttırılması, 2004 - 2006
12. EROĞLU M., DEMİRBAĞ Z., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Fındık zararlılarına karşı biyolojik mücadele ajanlarının geliştirilmesi, 2001 - 2003
13. DEMİRBAĞ Z., TUBITAK Project, Bacillus thuringiensis cryIVA ve cryIVD Genlerinin Birlikte Baculovirus Ekspresyon Vektör Sisteminde İfadesi, 1998 - 1999
14. DEMİRBAĞ Z., TUBITAK Project, Autographa californica nuclear polyhedrosis virus (AcMNPV) gen ekspresyonunun Bombyx mori böcek hücre kültüründe araştırılması, 1994 - 1997

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Characterization of an envelope protein 118L in invertebrate iridescent virus 6 (IIV6)**
ALTUN B., Zengin K., Dabag S. Y., Yesilyurt A., NALÇACIOĞLU R., DEMİRBAĞ Z.
VIRUS GENES, 2024 (SCI-Expanded)
2. **Amsacta moorei entomopoxvirus encodes a protein kinase with dual activity and a broad substrate spectrum including two putative cellular substrates**
MURATOĞLU H., NALÇACIOĞLU R., Arif B. M., DEMİRBAĞ Z.
VIRUS GENES, vol.60, no.3, pp.287-294, 2024 (SCI-Expanded)
3. **Entomopathogenic fungi with biological control potential against poultry red mite (Dermanyssus gallinae, Arachnida: Dermanyssidae)**
Bayramoğlu M., BAYRAMOĞLU Z., AYDIN L., Zengin S. A., ÇIRAK V. Y., DEMİRBAĞ Z., DEMİR İ.
Veterinary Parasitology, vol.328, 2024 (SCI-Expanded)
4. **Isolation and identification of bacteria from the invasive pest Tuta absoluta (Meyrick) (Lepidoptera: Gelechiidae) and evaluation of their biocontrol potential**
ESKİ A., Erdoğan P., DEMİRBAĞ Z., DEMİR İ.
International Microbiology, vol.27, no.2, pp.631-643, 2024 (SCI-Expanded)
5. **Prospecting the biofuel potential of new microalgae isolates**
Balouch H., Zayadan B. K., Sadvakasova A. K., Kossalbayev B. D., Bolatkhon K., Gencer D., Civelek D., DEMİRBAĞ Z., Alharby H. F., Allahverdiev S. I.
International Journal of Hydrogen Energy, vol.48, no.50, pp.19060-19073, 2023 (SCI-Expanded)
6. **Transcriptional Analysis of the Gene Encoding the Putative Myristoylated Membrane Protein (ORF458R) of Invertebrate Iridescent Virus 6 (IIV6)**
Kuz C., Ozsahin E., NALÇACIOĞLU R., DEMİRBAĞ Z.
Molecular Biology, vol.57, no.3, pp.440-446, 2023 (SCI-Expanded)
7. **Identification of the potential matrix protein of invertebrate iridescent virus 6 (IIV6).**
Gencer D., Yesilyurt A., Ozsahin E., MURATOĞLU H., Acar Yazici Z., DEMİRBAĞ Z., NALÇACIOĞLU R.

Journal of invertebrate pathology, vol.197, pp.107885, 2023 (SCI-Expanded)

8. **Enzymatic and insecticidal activities of the *Amsacta moorei* entomopoxvirus glycosyltransferase, AMV248**
Gencer D., İNAN C., DEMİRBAĞ Z., MURATOĞLU H.
ANNALS OF APPLIED BIOLOGY, vol.182, no.2, pp.238-244, 2023 (SCI-Expanded)
9. **Stability of *Metarhizium anisopliae* (Hypocreales: Clavicipitaceae) isolates during repeated in vitro subculture and evaluation of an oil-in-water mycoinsecticide**
Sonmez E., Uzunoglu H., Eski A., DEMİRBAĞ Z., DEMİR İ.
CANADIAN ENTOMOLOGIST, vol.154, no.1, 2022 (SCI-Expanded)
10. **An environmentally safe and tolerant microbial insecticide utilizing *Helicoverpa armigera* single nucleopolyhedrovirus (HearNPV-TR)**
Eroglu G. B., DEMİRBAĞ Z.
EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL, vol.32, no.1, 2022 (SCI-Expanded)
11. **Development of *Beauveria bassiana* (Ascomycota: Hypocreales) as a mycoinsecticide to control green peach aphid, *Myzus persicae* (Homoptera: Aphididae) and investigation of its biocontrol potential**
Biryol S., DEMİRBAĞ Z., Erdogan P., DEMİR İ.
JOURNAL OF ASIA-PACIFIC ENTOMOLOGY, vol.25, no.1, 2022 (SCI-Expanded)
12. **Development of mycoinsecticide formulations with *Beauveria bassiana* and *Metarhizium brunneum* for the control of *Orosanga japonica* (Hemiptera: Ricaniidae)**
Biryol S., Güney E., Eski A., Bayramoğlu Z., Sezen K., Demirbağ Z., Demir İ.
ANNALS OF APPLIED BIOLOGY, vol.179, no.3, pp.319-330, 2021 (SCI-Expanded)
13. **Genome sequence analysis of a *Helicoverpa armigera* single nucleopolyhedrovirus (HearNPV-TR) isolated from *Heliothis peltigera* in Turkey**
Eroglu G. B., İNAN C., NALÇACIOĞLU R., DEMİRBAĞ Z.
PLOS ONE, vol.15, no.6, 2020 (SCI-Expanded)
14. **Genome sequence analysis and organization of the *Hyphantria cunea* granulovirus (HycuGV-Hc1) from Turkey**
Gencer D., Bayramoglu Z., NALÇACIOĞLU R., DEMİRBAĞ Z., DEMİR İ.
GENOMICS, vol.112, no.1, pp.459-466, 2020 (SCI-Expanded)
15. **A new single nucleopolyhedrovirus isolate from Cabbage looper, *Trichoplusia ni* (Hubner) (Lepidoptera: Noctuidae): Detection, characterization and virulence**
Eroglu G. B., NALÇACIOĞLU R., Nakai M., DEMİRBAĞ Z.
ACTA VIROLOGICA, vol.64, no.3, pp.344-351, 2020 (SCI-Expanded)
16. **Fungal pathogens of *Amphimallon solstitiale* Linnaeus, 1758 (Coleoptera: Scarabaeidae)**
Biryol S., Efe D., Eski A., DEMİRBAĞ Z., DEMİR İ.
TURKIYE ENTOMOLOJİ DERGİSİ-TURKISH JOURNAL OF ENTOMOLOGY, vol.44, no.3, pp.375-384, 2020 (SCI-Expanded)
17. ***Bacillus thuringiensis* kurstaki strains produce vegetative insecticidal proteins (Vip 3) with high potential**
GÜNEY E., Adiguzel A., DEMİRBAĞ Z., SEZEN K.
EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL, vol.29, no.1, 2019 (SCI-Expanded)
18. ***Chilo iridescent* virus encodes two functional metalloproteases.**
YESİLYURT A., MURATOĞLU H., DEMİRBAĞ Z., Nalcacioglu R.
Archives of virology, vol.164, pp.657-665, 2019 (SCI-Expanded)
19. **Microencapsulation of an indigenous isolate of *Bacillus thuringiensis* by spray drying**
Eski A., DEMİRBAĞ Z., DEMİR İ.
JOURNAL OF MICROENCAPSULATION, vol.36, no.1, pp.1-9, 2019 (SCI-Expanded)
20. **A new *Helicoverpa armigera* Nucleopolyhedrovirus isolate from *Heliothis peltigera* (Denis & Schiffermuller) (Lepidoptera: Noctuidae) in Turkey**
Eroglu G. B., NALÇACIOĞLU R., DEMİRBAĞ Z.

TURKISH JOURNAL OF BIOLOGY, vol.43, no.5, pp.340-348, 2019 (SCI-Expanded)

21. **Improvement of delta-endotoxin production from local *Bacillus thuringiensis* Se13 using Taguchi's orthogonal array methodology**
ESKİ A., DEMİRBAĞ Z., DEMİR İ.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.43, no.6, pp.662-670, 2018 (SCI-Expanded)
22. **Chilo iridescent virus encodes two functional metalloproteases**
YEŞİLYURT A., MURATOĞLU H., DEMİRBAĞ Z., NALÇACIOĞLU R.
ARCHIVES OF VIROLOGY, vol.705, pp.1-9, 2018 (SCI-Expanded)
23. **Complete genome sequence analysis of the Malacosoma neustria nucleopolyhedrovirus from Turkey**
Gencer D., NALÇACIOĞLU R., DEMİRBAĞ Z., DEMİR İ.
VIRUS GENES, vol.54, no.5, pp.706-718, 2018 (SCI-Expanded)
24. **Biodiversity and pathogenicity of bacteria associated with the gut microbiota of beet armyworm, *Spodoptera exigua* Hubner (Lepidoptera: Noctuidae)**
ESKİ A., DEMİR İ., GULLU M., DEMİRBAĞ Z.
MICROBIAL PATHOGENESIS, vol.121, pp.350-358, 2018 (SCI-Expanded)
25. **Protein-protein interactions among the structural proteins of Chilo iridescent virus**
ÖZŞAHİN E., van Oers M. M., NALÇACIOĞLU R., DEMİRBAĞ Z.
JOURNAL OF GENERAL VIROLOGY, vol.99, no.6, pp.851-859, 2018 (SCI-Expanded)
26. **Amsacta moorei entomopoxvirus encodes a functional heparin-binding glycosyltransferase (AMV248)**
İNAN C., MURATOĞLU H., Arif B. M., DEMİRBAĞ Z.
VIRUS GENES, vol.54, no.3, pp.438-445, 2018 (SCI-Expanded)
27. **A novel alphabaculovirus isolated from the cotton bollworm, *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae): characterization and pathogenicity**
EROĞLU G. B., DEMİR İ., DEMİRBAĞ Z.
BIOLOGIA, vol.73, no.5, pp.545-551, 2018 (SCI-Expanded)
28. **Determination of fungal pathogens of *Hypera postica* (Gyllenhal) (Coleoptera: Curculionidae): isolation, characterization, and susceptibility**
YÜCEL B., Gozuacik C., Gencer D., DEMİR İ., DEMİRBAĞ Z.
EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL, vol.28, 2018 (SCI-Expanded)
29. **The protein-protein interactions between *Amsacta moorei* entomopoxvirus (AMEV) protein kinases (PKs) and all viral proteins**
DANIŞMAZOĞLU M., NALÇACIOĞLU R., Muratoglu H., DEMİRBAĞ Z.
VIRUS RESEARCH, vol.248, pp.31-38, 2018 (SCI-Expanded)
30. **Efficacy of native entomopathogenic nematodes from Turkey against the alder leaf beetle, *Agelastica alni* L. (Coleoptera: Chrysomelidae), under laboratory conditions**
BAYRAMOĞLU Z., DEMİR İ., İNAN C., DEMİRBAĞ Z.
EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL, vol.28, 2018 (SCI-Expanded)
31. **Transcriptional analysis of the putative glycosyltransferase gene (amv248) of the *Amsacta moorei* entomopoxvirus**
İNAN C., MURATOĞLU H., ARIF B. M., DEMİRBAĞ Z.
VIRUS RESEARCH, vol.243, pp.25-30, 2018 (SCI-Expanded)
32. **Characterization of a Betabaculovirus from the fall webworm, *Hyphantria cunea* Drury. (Lepidoptera: Erebidae), in Turkey**
BAYRAMOĞLU Z., NALÇACIOĞLU R., DEMİRBAĞ Z., DEMİR İ.
BIOCONTROL SCIENCE AND TECHNOLOGY, vol.28, no.12, pp.1178-1190, 2018 (SCI-Expanded)
33. **Characterisation of three Alphabaculovirus isolates from the gypsy moth, *Lymantria dispar dispar* (Lepidoptera: Erebidae), in Turkey**
Gencer D., BAYRAMOĞLU Z., NALÇACIOĞLU R., Kleespies R. G., DEMİRBAĞ Z., DEMİR İ.
BIOCONTROL SCIENCE AND TECHNOLOGY, vol.28, no.2, pp.107-121, 2018 (SCI-Expanded)
34. **Characterization of a nucleopolyhedrovirus variant of the gypsy moth, *Lymantria dispar***

(Lepidoptera: Lymantriidae) in Turkey

BAYRAMOĞLU Z., Gencer D., MURATOĞLU H., Efe D., NALÇACIOĞLU R., DEMİRBAĞ Z., DEMİR İ.
INTERNATIONAL JOURNAL OF PEST MANAGEMENT, vol.64, no.2, pp.119-127, 2018 (SCI-Expanded)

35. **Bacterial Flora of Lobesia botrana ([Denis & Schiffermüller]) (Lepidoptera: Tortricidae) as a Possible Microbial Control Agent**
Gholizad L. M., Inane C., NALÇACIOĞLU R., HAMZEZADEH A., DEMİRBAĞ Z.
ACTA ZOOLOGICA BULGARICA, vol.69, no.4, pp.583-591, 2017 (SCI-Expanded)
36. **Efficacy of Entomopathogenic Fungi against the Alder Leaf Beetle Agelastica alni (L.) (Coleoptera: Chrysomelidae)**
SONMEZ E., Kocaçevik S., Sevim A., DEMİRBAĞ Z., DEMİR İ.
ACTA ZOOLOGICA BULGARICA, vol.69, no.4, pp.575-581, 2017 (SCI-Expanded)
37. **Bacterial Flora of Lobesia botrana ([Denis Schiffermüller]) (Lepidoptera: Tortricidae) as a Possible Microbial Control Agent**
Gholizad L. M., İNAN C., NALÇACIOĞLU R., Hamzezadeh A., DEMİRBAĞ Z.
ACTA ZOOLOGICA BULGARICA, vol.69, no.4, pp.583-591, 2017 (SCI-Expanded)
38. **Microbial control of some entomopathogenic agents against the European grapevine moth, Lobesia botrana Schiff. (Lepidoptera: Tortricidae)**
MOHAMMAD GHOLIZAD L., DEMİR İ., NALÇACIOĞLU R., DEMİRBAĞ Z.
EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL, vol.27, no.1, pp.35-39, 2017 (SCI-Expanded)
39. **A new biopesticide from a local Bacillus thuringiensis var. tenebrionis (Xd3) against alder leaf beetle (Coleoptera: Chrysomelidae)**
Eski A., DEMİR İ., SEZEN K., DEMİRBAĞ Z.
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.33, no.5, 2017 (SCI-Expanded)
40. **A new biopesticide from a local Bacillus thuringiensis var. tenebrionis (Xd3) against alder leaf beetle (Coleoptera: Chrysomelidae)**
Eski A., SEZEN K., DEMİRBAĞ Z., DEMİR İ.
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.33, no.95, pp.1-9, 2017 (SCI-Expanded)
41. **The effect of plant quality on survival of Lymantria dispar L. (Lepidoptera: Lymantriidae) larvae infected by nucleopolyhedrovirus**
YANAR O., GÖMEÇ S., TOPKARA E. F., DEMİR İ., DEMİRBAĞ Z.
JOURNAL OF THE ENTOMOLOGICAL RESEARCH SOCIETY, vol.19, pp.37-48, 2017 (SCI-Expanded)
42. **The Effect of Plant Quality on Survival of Lymantria dispar L. (Lepidoptera: Lymantriidae) Larvae Infected by Nucleopolyhedrovirus**
Yanar O., Gomec S., Topkara E. F., DEMİR İ., DEMİRBAĞ Z.
JOURNAL OF THE ENTOMOLOGICAL RESEARCH SOCIETY, vol.19, pp.39-50, 2017 (SCI-Expanded)
43. **Pine processionary moth (Thaumetopoea pityocampa, Lepidoptera: Thaumetopoeidae) larvae are highly susceptible to the entomopathogenic fungi Metarhizium brunneum and Beauveria bassiana**
SONMEZ E., DEMİR İ., Bull J. C., Butt T. M., DEMİRBAĞ Z.
BIOCONTROL SCIENCE AND TECHNOLOGY, vol.27, no.10, pp.1168-1179, 2017 (SCI-Expanded)
44. **Expression and production of recombinant proteins from immunodominant E gene regions of bovine viral diarrhoea virus 1 (BVDV-1) Turkish field strains for prophylactic purpose**
Oguzoglu T. C., Muz D., TİMURKAN M. Ö., Koc B. T., OZSAHİN E., Burgu I., Akca Y., DEMİRBAĞ Z.
REVUE DE MEDECINE VETERINAIRE, vol.168, pp.183-191, 2017 (SCI-Expanded)
45. **Microbial Control Potential of some Entomopathogenic Agents against the European Grapevine Moth, Lobesia botrana Schiff. (Lepidoptera: Tortricidae)**
Gholizad L. M., DEMİR İ., NALÇACIOĞLU R., DEMİRBAĞ Z.
EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL, vol.27, no.1, pp.35-39, 2017 (SCI-Expanded)
46. **Chilo iridescent virus (CIV) ORF 012L encodes a protein with both exonuclease and endonuclease functions**
DIZMAN Y. A., MURATOĞLU H., Sandalli C., NALÇACIOĞLU R., DEMİRBAĞ Z.
ARCHIVES OF VIROLOGY, vol.161, no.11, pp.3029-3037, 2016 (SCI-Expanded)

47. **Enhanced insecticidal activity of Chilo iridescent virus expressing an insect specific neurotoxin**
NALÇACIOĞLU R., MURATOĞLU H., YEŞİLYURT A., van Oers M. M., VLAK J. M., DEMİRBAĞ Z.
JOURNAL OF INVERTEBRATE PATHOLOGY, vol.138, pp.104-111, 2016 (SCI-Expanded)
48. **Isolation, characterization and virulence of entomopathogenic fungi from Gryllotalpa gryllotalpa (Orthoptera: Gryllotalpidae)**
SONMEZ E., Sevim A., DEMİRBAĞ Z., DEMİR İ.
APPLIED ENTOMOLOGY AND ZOOLOGY, vol.51, no.2, pp.213-223, 2016 (SCI-Expanded)
49. **Genome-wide analysis of differential mRNA expression of Amsacta moorei entomopoxvirus, mediated by the gene encoding a viral protein kinase (AMV197)**
MURATOĞLU H., NALÇACIOĞLU R., ARIF B. M., DEMİRBAĞ Z.
VIRUS RESEARCH, vol.215, pp.25-36, 2016 (SCI-Expanded)
50. **Virulence and horizontal transmission of Beauveria pseudobassiana SA Rehner & Humber in Ips sexdentatus and Ips typographus (Coleoptera: Curculionidae)**
Kocaçevik S., Sevim A., EROĞLU M., DEMİRBAĞ Z., DEMİR İ.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.40, no.2, pp.241-248, 2016 (SCI-Expanded)
51. **Pathogenicity of selected entomopathogenic fungal isolates against the oak lace bug, Corythucha arcuata Say. (Hemiptera: Tingidae), under controlled conditions**
SONMEZ E., DEMİRBAĞ Z., DEMİR İ.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.40, no.5, pp.715-722, 2016 (SCI-Expanded)
52. **In Search of Pathogens: Transcriptome-Based Identification of Viral Sequences from the Pine Processionary Moth (Thaumetopoea pityocampa)**
Jakubowska A. K., NALÇACIOĞLU R., Millán-Leiva A., Sanz-Carbonell A., MURATOĞLU H., Herrero S., DEMİRBAĞ Z.
VIRUSES-BASEL, vol.7, no.2, pp.456-479, 2015 (SCI-Expanded)
53. **Amsacta moorei Entomopoxvirus Encodes a Functional Esterase (amv133) with Protease Activity**
Özşahin E., SEZEN K., DEMİRBAĞ Z.
INTERVIROLOGY, vol.58, no.1, pp.41-48, 2015 (SCI-Expanded)
54. **Highly effective bacterial agents against Cimex quadrimaculatus (Hymenoptera: Cimbicidae): isolation of bacteria and their insecticidal activities**
CAKICI F. O., Ozgen I., Bolu H., ERBAŞ Z., DEMİRBAĞ Z., DEMİR İ.
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Elsevier, pp.858-866, 2021

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2002 - 2004	Rector's Advisor	Karadeniz Technical University
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Courses

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Mikrobiyal Mücadele, Postgraduate, 2009 - 2010

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DEMİRBAĞ Z., Doğal Ortamlardan İzole Edilen Bacillus thuringiensis'lerin Karakterizasyonu ve İnsektisidal Özelliklerinin Belirlenmesi, Doctorate, H.Katı(Student), 2003
DEMİRBAĞ Z., Malacosoma neustria (Lepidoptera; Lasiocampidae)'dan Virüs İzolasyonu, Karakterizasyonu ve Mikrobiyal Mücadelede Kullanılma Potansiyeli, Doctorate, M.Yaman(Student), 2003
DEMİRBAĞ Z., Elma Zararlıları Cydia pomonella ve Yponomeuta mallinellus'un Patoloji ve Mikrobiyal Kontrolleri, Doctorate, Ö.Ertürk(Student), 2002
DEMİRBAĞ Z., Çeşitli Toprak Örneklerinden Bacillus thuringiensis'lerin İzolasyonu, Karakterizasyonu ve İnsektisidal Etkilerinin Belirlenmesi, Postgraduate, Ö.Bülbüloğlu(Student), 2000
DEMİRBAĞ Z., Bacillus thuringiensis cryIVA ve cryIVD Genlerine Ait Proteinlerin Bakülovirüs Ekspresyon Vektör Sisteminde Üretilmeleri, Postgraduate, R.Nalçacıoğlu(Student), 1998
DEMİRBAĞ Z., Primula longipes (Primilaceae) Bitkisinden Elde Edilen Özütlere Baculovirüsün Replikasyonuna Etkilerinin Araştırılması, Postgraduate, H.Katı(Student), 1998
DEMİRBAĞ Z., Fındık Kurdu (Balaninus nucum)'nın Biyolojisi, Bakteriyal Florası ve Biyolojik Mücadele Ajanlarının Araştırılması, Postgraduate, K.Sezen(Student), 1998
DEMİRBAĞ Z., Fuel Oil ile Kirlenmiş Topraklardan Bazı Pseudomonas Türlerinin İzolasyonu ve Karakterizasyonu, Postgraduate, İ.Demir(Student), 1998
DEMİRBAĞ Z., Euproctis chrysorrhoea (L.)'nin Bakteriyal Florasının ve Biyolojik Mücadele Ajanlarının Araştırılması, Postgraduate, M.Yaman(Student), 1998
DEMİRBAĞ Z., Bazı Bitkilerden Elde Edilen Özütlere Baculovirüs'e Etkilerinin Araştırılması, Postgraduate, Ö.Ertürk(Student), 1995

Activities in Scientific Journals

Turkish Journal of Biology, Editor, 2010 - 2015
Karadeniz Teknik Üniversitesi Tıp Dergisi, Editor, 1995 - 1996

Memberships / Tasks in Scientific Organizations

Türkiye Biyolojik Mücadele Derneği, Member, 2007 - Continues
Society for Invertebrate Pathology (SIP), Member, 1995 - Continues
Türkiye Biyoteknoloji Derneği, Member, 1995 - 2000
American Society for Microbiology (ASM), Member, 1990 - 1995
American Society for Virology (ASV), Member, 1993 - 1993
American Association for the Advancement of Science (AAAS), Member, 1991 - 1992

Scientific Refereeing

Virology, SCI Journal, October 2017

Biocontrol Science & Technology , SCI Journal, September 2015

Scientific Consultations

Karadeniz Teknik Üniversitesi, Project Consultancy, Karadeniz Technical University, Fen Edebiyat Fakültesi, Biyoloji, Turkey, 2014 - 2017

Metrics

Publication: 598

Citation (WoS): 1420

Citation (Scopus): 1447

H-Index (WoS): 21

H-Index (Scopus): 21

Congress and Symposium Activities

4. BİGEN Kongresi, Invited Speaker, İstanbul, Turkey, 2022

Invited Speaker, Ankara, Turkey, 2022

Gebze Bilim Sanat Merkezi, Invited Speaker, Kocaeli, Turkey, 2022

Karadeniz Teknik Üniversitesi, Invited Speaker, Trabzon, Turkey, 2022

İnönü Üniversitesi, Invited Speaker, Malatya, Turkey, 2022

Kazakistan, Al-Farabi National Days, Invited Speaker, Almati, Kazakhstan, 2019

Orman Zararlılarıyla Mücadele Teknikleri, Reçete Yazılması ve Yetkilendirme Eğitim Programı, Invited Speaker, Antalya, Turkey, 2017

6. Entomopathogens and Microbial Control Congress, Invited Speaker, Kayseri, Turkey, 2017

3rd International Conference on 'Agriculture, Food Security and Biotechnology, Invited Speaker, Islamabad, Pakistan, 2017

KTÜ, Sosyal Bilimler Enstitüsü, Invited Speaker, Trabzon, Turkey, 2016

Tokyo Tarım Üniversitesi, Insect Viruses, Invited Speaker, Tokyo, Japan, 2015

5. Entomopathogens and Microbial Control Congress, Invited Speaker, Ankara, Turkey, 2015

Erzurum Teknik Üniversitesi (DOKAP Bilim Şenliği), Invited Speaker, Erzurum, Turkey, 2015

Tarım Bakanlığı Bitki Sağlığı Araştırmaları Programı Grup Değerlendirme Toplantısı, Invited Speaker, Antalya, Turkey, 2015

G Kore National Academy of Agricultural Science (NAAS) of Rural Development Administration, Invited Speaker, Weonju, South Korea, 2014

22. Ulusal Biyoloji Kongresi, Invited Speaker, Eskişehir, Turkey, 2014

22. Ulusal Biyoteknoloji Kongresi, Invited Speaker, Eskişehir, Turkey, 2014

Amasya Üniversitesi, Konferans, Invited Speaker, Amasya, Turkey, 2014

9. Biyoteknoloji Bahar Okulu, Invited Speaker, Trabzon, Turkey, 2014

Yeditepe Üniv, 2. Genetik ve Biyomühendislik Günleri, Invited Speaker, İstanbul, Turkey, 2014

7. Biyoteknoloji Bahar Okulu, Invited Speaker, Trabzon, Turkey, 2014

4. Entomopathogens and Microbial Control Congress, Invited Speaker, Artvin, Turkey, 2013

8. Biyoteknoloji Bahar Okulu, Invited Speaker, Trabzon, Turkey, 2013

9. Ankara Bioteknoloji Günleri, Invited Speaker, Ankara, Turkey, 2011

3. Entomopathogens and Microbial Control, Invited Speaker, İstanbul, Turkey, 2011
6. Biyoteknoloji Bahar Okulu, Invited Speaker, Trabzon, Turkey, 2011
20. ULUSAL BIYOLOJİ KONGRESİ'ne (Uluslararası Katılımlı), Invited Speaker, Denizli, Turkey, 2010
5. Biyoteknoloji Bahar Okulu, Invited Speaker, Trabzon, Turkey, 2010
2. Entomopathogens and Microbial Control, Invited Speaker, Muğla, Turkey, 2009
4. Biyoteknoloji Bahar Okulu, Invited Speaker, Trabzon, Turkey, 2009
6. Ankara Biyoteknoloji Günleri, Invited Speaker, Ankara, Turkey, 2008
- İstanbul Üniversitesi, Biyoloji Kış Okulu, Invited Speaker, İstanbul, Turkey, 2007
- Okoyama Üniversitesi, Gene Expression Control and Genome Evolution, Invited Speaker, Okayama, Japan, 2007
3. Biyoteknoloji Bahar Okulu, Invited Speaker, Trabzon, Turkey, 2007
1. Entomopathogens and Microbial Control, Invited Speaker, Trabzon, Turkey, 2007
- KTÜ Sağlık Yüksek Okulu, Biyoterörizm, Invited Speaker, Trabzon, Turkey, 2007
1. Biyoteknoloji Bahar Okulu, Invited Speaker, Trabzon, Turkey, 2006

Research Areas

Life Sciences, Biotechnology, Microbial Biotechnology, Microbiology, Bacteriology, Virology, Molecular Biology and Genetics, Genetic Engineering, Genomics, Microbial Genetics, Natural Sciences

Non Academic Experience

Karadeniz Teknik Üniversitesi
University of Florida-MGM
Avrupa Birliği
Texas Tech University
Wageningen University