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Education Information

Doctorate, Karadeniz Technical University, Fen Fakültesi, Biyoloji, Turkey 1998 - 2003

Postgraduate, Karadeniz Technical University, Fen Fakültesi, Biyoloji, Turkey 1996 - 1998

Undergraduate, Karadeniz Technical University, Fen Fakültesi, Biyoloji, Turkey 1992 - 1996

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Chilo iridescent virüs'ün Bombyx mori hücre kültüründe replikasyonu ve dnapol ile mcp genlerinin transkripsiyonal analizi, Karadeniz Technical University, Fen Fakültesi, Biyoloji, 2003

Research Areas

Life Sciences, Biotechnology, Microbial Biotechnology, Microbiology, Virology, Molecular Biology and Genetics, Microbial Genetics, Natural Sciences

Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Biyoloji, 2017 - Continues

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)

- II. ***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)
- III. **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)
- IV. **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)
- V. **Genome Sequencing and Organization of Three Geographically Different Isolates of Nucleopolyhedrovirus from the Gypsy Moth Reveal Significant Genomic Differences**
Gencer D., İnan C., Bayramoğlu Z., Nalçacıoğlu R., Yin F., Zhu Z., Wang J., Hu Z., Pavlik L., Arif B., et al.
Current Genomics, vol.24, no.3, pp.146-154, 2023 (SCI-Expanded)
- VI. ***Janthinobacterium kumbetense* sp. nov., a violacein-producing bacterium isolated from spring water in Turkey, and investigation of antimicrobial activity of violacein**
İnan Bektaş K., Nalçacıoğlu A., Kati H., Ceylan E., Nalçacıoğlu R., Beldüz A. O., Çanakçı S.
FEMS MICROBIOLOGY LETTERS, vol.370, 2023 (SCI-Expanded)
- VII. **Comparison of the potential activities of viral and bacterial chitinases**
Abulikemu S., Yesilyurt A., Gencer D., Usta M., NALÇACIOĞLU R.
EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL, vol.31, no.1, 2021 (SCI-Expanded)
- VIII. **Conserved motifs in the invertebrate iridescent virus 6 (IIV6) genome regulate virus transcription.**
Yesilyurt A., Demirbag Z., van O., Nalcacioglu R.
Journal of invertebrate pathology, vol.177, pp.107496, 2020 (SCI-Expanded)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **Insecticidal activities of wild type and recombinant invertebrate iridescent viruses on five common pests**
Gencer D., Yesilyurt A., Gullu M., DEMİR İ., NALÇACIOĞLU R.
TURKIYE ENTOMOLOJİ DERGİSİ-TURKISH JOURNAL OF ENTOMOLOGY, vol.44, no.3, pp.365-373, 2020 (SCI-Expanded)
- XIII. ***Chilo* iridescent virus encodes two functional metalloproteases.**
YESILYURT A., MURATOĞLU H., DEMİRBAĞ Z., Nalcacioglu R.
Archives of virology, vol.164, pp.657-665, 2019 (SCI-Expanded)
- XIV. **Characterization of a novel baculovirus isolate from *Malacosoma neustria* (Linnaeus, 1758) (Lepidoptera: Lasiocampidae) in Samsun and its pathogenicity in different hosts**
Gencer D., YANAR O., Yesilyurt A., NALÇACIOĞLU R., DEMİR İ.
TURKIYE ENTOMOLOJİ DERGİSİ-TURKISH JOURNAL OF ENTOMOLOGY, vol.43, no.4, pp.429-440, 2019 (SCI-

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- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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.
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- XXI. **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)
- XXII. **Bacterial Flora of *Lobesia botrana* ([Denis Schiffermuller]) (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)
- XXIII. **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)
- XXIV. ***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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **Cloning and expression of chitinase A, B and C (*chiA*, *chiB*, *chiC*) genes from *Serratia marcescens***

- originating from *Helicoverpa armigera* and determining their activities**
DANIŞMAZOĞLU M., DEMİR İ., SEZEN K., MURATOĞLU H., NALÇACIOĞLU R.
TURKISH JOURNAL OF BIOLOGY, vol.39, pp.78-87, 2015 (SCI-Expanded)
- XXIX. **Construction and characterization of a recombinant invertebrate iridovirus**
ÖZGEN A., MURATOĞLU H., DEMİRBAĞ Z., VLAK J. M., van Oers M. M., NALÇACIOĞLU R.
VIRUS RESEARCH, vol.189, pp.286-292, 2014 (SCI-Expanded)
- XXX. **The first study on bacterial flora of pest beetles *Sciaphobus squalidus*, *Tatianaerhynchites aequatus* and *Byctiscus betulae* in the Republic of Moldova**
Munteanu N. V., DANIŞMAZOĞLU M., Moldovan A. I., Toderas I. K., NALÇACIOĞLU R., DEMİRBAĞ Z.
BIOLOGIA, vol.69, no.5, pp.681-690, 2014 (SCI-Expanded)
- XXXI. **A highly effective nucleopolyhedrovirus against *Malacosoma* spp. (Lepidoptera: Lasiocampidae) from Turkey: isolation, characterization, phylogeny, and virulence**
DEMİR İ., NALÇACIOĞLU R., Gholizad L. M., DEMİRBAĞ Z.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.38, no.4, pp.462-470, 2014 (SCI-Expanded)
- XXXII. **Molecular Characterization of Chitinase Genes from a Local Isolate of *Serratia marcescens* and Their Contribution to the Insecticidal Activity of *Bacillus thuringiensis* Strains**
Ozgen A., SEZEN K., DEMİR İ., DEMİRBAĞ Z., NALÇACIOĞLU R.
CURRENT MICROBIOLOGY, vol.67, no.4, pp.499-504, 2013 (SCI-Expanded)
- XXXIII. **Induction of apoptosis by the *Amsacta moorei* entomopoxvirus**
Perera S., Krell P., DEMİRBAĞ Z., NALÇACIOĞLU R., Arif B.
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- XXXIV. **Characterization of a new isolate of *Malacosoma neustria* nucleopolyhedrovirus (ManeNPV) from Turkey**
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TURKISH JOURNAL OF BIOLOGY, vol.37, no.4, pp.385-391, 2013 (SCI-Expanded)
- XXXV. **An investigation on the bacterial flora of *Agriotes lineatus* (Coleoptera: Elateridae) and pathogenicity of the flora members**
DANIŞMAZOĞLU M., DEMİR İ., SEVİM A., DEMİRBAĞ Z., NALÇACIOĞLU R.
CROP PROTECTION, vol.40, pp.1-7, 2012 (SCI-Expanded)
- XXXVI. **Transcriptomic analysis of *Chilo* iridescent virus immediate early promoter**
Dizman Y. A., DEMİRBAĞ Z., İNCE I. A., NALÇACIOĞLU R.
VIRUS RESEARCH, vol.167, no.2, pp.353-357, 2012 (SCI-Expanded)
- XXXVII. **The relationship between insecticidal effects and chitinase activities of Coleopteran-originated entomopathogens and their chitinolytic profile**
Bahar A. A., SEZEN K., DEMİRBAĞ Z., NALÇACIOĞLU R.
ANNALS OF MICROBIOLOGY, vol.62, no.2, pp.647-653, 2012 (SCI-Expanded)
- XXXVIII. ***Amsacta moorei* entomopoxvirus encodes a functional DNA photolyase (AMV025)**
Nalcacioglu R., Dizman Y. A., VLAK J. M., DEMİRBAĞ Z., van Oers M. M.
JOURNAL OF INVERTEBRATE PATHOLOGY, vol.105, no.3, pp.363-365, 2010 (SCI-Expanded)
- XXXIX. **Transcriptional and structural analyses of *Amsacta moorei* entomopoxvirus protein kinase gene (AMV197, pk)**
MURATOĞLU H., NALÇACIOĞLU R., DEMİRBAĞ Z.
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- XL. **Comparative susceptibilities of six insect cell lines to infection by *Malacosoma neustria* nucleopolyhedrovirus (ManeNPV)**
DEMİR İ., GÜREL N., NALÇACIOĞLU R., DEMİRBAĞ Z.
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- XLI. **Productive replication of *Malacosoma neustria* nucleopolyhedrovirus (ManeNPV) in Md203 cell line**
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TURKISH JOURNAL OF BIOLOGY, vol.33, no.3, pp.239-248, 2009 (SCI-Expanded)
- XLII. **Open reading frame 193R of *Chilo* iridescent virus encodes a functional inhibitor of apoptosis (IAP)**

- İNCE I. A., Westenberg M., VLAK J. M., DEMİRBAĞ Z., NALÇACIOĞLU R., van Oers M. M.
VIROLOGY, vol.376, no.1, pp.124-131, 2008 (SCI-Expanded)
- XLIII. **Identification and pathogenicity of bacteria from european shot-hole borer, Xyleborus dispar Fabricus (Coleoptera: Scolytidae)**
SEZEN K., KATI H., NALÇACIOĞLU R., MURATOĞLU H., DEMİRBAĞ Z.
ANNALS OF MICROBIOLOGY, vol.58, no.2, pp.173-179, 2008 (SCI-Expanded)
- XLIV. **Highly pathogenic Bacillus thuringiensis subsp. tenebrionis from European shot-hole borer, Xyleborus dispar (Coleoptera : Scolytidae)**
SEZEN K., Muratoglu H., NALÇACIOĞLU R., Mert D., DEMİRBAĞ Z., Kati H.
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- XLV. **The Significance of Insect Viruses in Biotechnology**
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- XLVI. **A highly pathogenic strain of Bacillus thuringiensis serovar kurstaki in lepidopteran pests**
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- XLVII. **The Chilo iridescent virus DNA polymerase promoter contains an essential AAAAT motif**
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- XLVIII. **A cytoplasmic polyhedrosis virus isolated from the pine processionary caterpillar, Thaumetopoea pityocampa**
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- XLIX. **Promoter analysis of the Chilo iridescent virus DNA polymerase and major capsid protein genes**
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- L. **Studies on bacterial flora in the population of the fall webworm, Hyphantria cunea Drury. (Lep., Arctiidae)**
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- LI. **Isolation and characterization of Bacillus thuringiensis isolated from hazelnut fields in Turkey**
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- LII. **Expression of the fusolin gene of Choristoneura fumiferana entomopoxvirus in the baculovirus insect cell system**
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Articles Published in Other Journals

- I. **The Biology of Chilo Iridescent Virus**
NALÇACIOĞLU R., İNCE İ. A., DEMİRBAĞ Z.
VIROLOGICA SINICA, vol.24, no.4, pp.284-294, 2009 (Scopus)
- II. **Böcek Viruslerinin Biyoteknolojik Önemi**
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- III. **Baculovirus'lerin biyolojisi ve replikasyonu**
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- IV. **A nuclear polyhedrosis virus of the Lackey Moth *Malacosoma neustria* Lepidoptera Lasiocampidae in Turkey**
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- V. **Characterization and insecticidal activity of *Bacillus thuringiensis* strains isolated from hazelnut fields in Turkey**
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- VI. **Viral Control of The European Pine Sawfly, *Neodiprion sertifer* (Geoffroy) in Turkey**
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XII.KÜKEM-Biyoteknoloji Kongresi, vol.20, no.1, pp.49-58, 1999 (Peer-Reviewed Journal)
- IX. **Bazı bitki özütlerinin antibakteriyal etkilerinin araştırılması**
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- II. **Poxviruses of Insects (Poxviridae)**
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- III. **Eşeyli Üreme, Mayoz ve Genetik Rekombinasyon**
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in: Hücre Dünyası, Beldüz A.O., Editor, Palme Yayın Dağıtım, Ankara, pp.1-812, 2019
- IV. **Entomopatojenler ve Biyolojik Mücadele**
DEMİRBAĞ Z., NALÇACIOĞLU R., KATI H., DEMİR İ., SEZEN K., ERTURK O.
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Refereed Congress / Symposium Publications in Proceedings

- I. **Genome organization of *Malacosoma neustria* nucleopolyhedrovirus (ManeNPV-T2) and interactions of AC145 proteins with oral infectivity proteins**
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- II. **Türkiye'den izole edilen *Malacosoma neustria* nucleopolyhedrovirus (ManeNPV-T2)'ün komple genom dizi analizi**
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- III. **Characterization of a new isolate of Malacosoma neustria nucleopolyhedrovirus (ManeNPV) from turkey and its virulence on different host**
GENÇER D., YANAR O., YEŞİLYURT A., NALÇACIOĞLU R., DEMİR İ.
International Agricultural, Biological Life Science Conference, 2 - 05 September 2018, pp.556
- IV. **Complete genome sequence analysis of the Hyphantria cunea granulovirus (HycuGV) from Turkey**
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- V. **Whole Genome Sequence and Organization of a Lymantria dispar Nucleopolyhedrovirus (LdMNPV) strain from Turkey**
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- VI. **Characterization of a granulovirus from the fall webworm, Hyphantria cunea (Drury) (Lepidoptera: Arctiidea)**
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