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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ataturk University, Turkey 2015 - 2019

Postgraduate, Ataturk University, Turkey 2013 - 2015

Undergraduate, Ataturk University, Turkey 2008 - 2012

Research Areas

Medical Genetics, Biotechnology, Molecular Biology and Genetics

Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yildirim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2019 - Continues

Assistant Professor, Hacettepe University, Tıp Fakültesi (Türkçe), Dahili Tıp Bilimleri Bölümü, 2022 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Phytochemical analysis and biological evaluation of essential oils and extracts from *Heracleum pastinacifolium* subsp. *incanum* (Boiss. & A.Huet) P.H.Davis, an endemic plant from Turkey**
YUCA H., Sefalı A., AYDIN B., KARADAYI M., Gülşahin Y., Yazıcı A., KARAKAYA S., DEMİRCİ B., ÇOBAN F., Özdemir E., et al.
Natural Product Research, 2024 (SCI-Expanded)
- II. **In vitro genotoxicity assessment of biosynthesized zinc oxide nanoparticles**
DEMİR A. Y., KARADAYI M., Isaoglu M., KARADAYI G., GÜLLÜCE M.
Toxicology and Industrial Health, vol.39, no.7, pp.345-355, 2023 (SCI-Expanded)
- III. **Genotoxic Potentials of Biosynthesized Zinc Oxide Nanoparticles**
GÜLLÜCE M., KARADAYI M., Demir A. Y., Isik C., Alaylar B., Ispirli N. H.
POLISH JOURNAL OF ENVIRONMENTAL STUDIES, vol.29, no.1, pp.111-119, 2020 (SCI-Expanded)
- IV. **Culturable bacteriorhodopsin-producing haloarchaea of Tuz Lake (Turkey)**
Ispirli N. H., GÜLLÜCE M., KARADAYI M., Demir A. Y.
GEOMICROBIOLOGY JOURNAL, vol.36, no.9, pp.831-836, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Detection of Right Ventricular Dysfunction Using LogNet Neural Network Model Based on Pulmonary Embolism Data Set**
HUYUT M. T., Velichko A., Belyaev M., Karaođlanođlu Ő., Sertogullarından B., DEMİR A. Y.
Eastern Journal of Medicine, vol.29, no.1, pp.118-128, 2024 (Scopus)
- II. **Sivas'taki Ailesel Akdeniz AteŐi Hastalarının MEFV Gen Mutasyonları Bakımından Deđerlendirilmesi**
DEMİR A. Y., YAKAR Ö.
Kırıkkale Üniversitesi Tıp Fakóltesi Dergisi, vol.25, no.2, pp.231-236, 2023 (Peer-Reviewed Journal)
- III. **The in-vitro Wound Healing Potential of Essential Oil Extracted from Mentha longifolia L.**
Sezen S., ERTUĐRUL M. S., BAYRAM C., Ökaraca M., Koç T. Y., DEMİR A. Y., GÜLLÜCE M., HACİMÜFTÜOĐLU A.
Journal of Research in Pharmacy, vol.27, no.3, pp.1220-1233, 2023 (Scopus)
- IV. **Extracellular biosynthesis and characterization of titanium dioxide nanoparticles (TiO₂) by using Aspergillus sp. TK4**
ŐAHİN M., DEMİR A. Y., KOÇ T. Y., GÜLLÜCE M.
Anatolian Journal of Biology, vol.1, no.1, pp.8-11, 2020 (Peer-Reviewed Journal)
- V. **Isolation and Molecular Characterization of Bacteria that can be Used in the Green Synthesis of ZnO Nanoparticles**
KARADAYI M., GÜLLÜCE M., DEMİR A. Y.
Journal of Molecular Biology and Biotechnology, vol.1, no.1, pp.16-20, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Mide Kanseriinde Onkogenler ve Tömör Süpresör Genler**
DEMİR A. Y.
in: Mide Kanseri Multidisipliner BakıŐ, Ataseven Hilmi, Özden Hüseyin, Gömeç Muhammed, Editor, Sivas Cumhuriyet Üniversitesi, Sivas, pp.165-170, 2022
- II. **Prenatal Tanıya Genetik YaklaŐımlar**
DEMİR A. Y.
in: Dahili Tıp Bilimlerinde Tıbbi Tanı ve Tedavi Yöntemleri-II, Karyađar SavaŐ, Editor, Livre de Lyon, Lyon, pp.1-12, 2021
- III. **The Journey of Nucleotides: DNA Sequencing**
DEMİR A. Y.
in: Medical and Health Research Theory, Method and Practice, Duran Nizami, Editor, Livre de Lyon, Lyon, pp.165-177, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **Likely Pathogenic PSMC3IP Variant Associated with Ovarian Dysgenesis 3**
DEMİR A. Y., YAKAR Ö.
Van Yüzüncü Yıl University 2nd International Health Sciences Congress, Turkey, 18 - 19 December 2023
- II. **Likely Pathogenic KDM6A Variant Associated with Kabuki 2 Syndrome**
DEMİR A. Y., YAKAR Ö.
2nd International Eurasian Health Sciences Congress, Trabzon, Turkey, 15 - 16 June 2023
- III. **Likely Pathogenic ROBO3 Variant: Case Report**
DEMİR A. Y., YAKAR Ö.
11th International Medicine and Health Sciences Researches Congress, Ankara, Turkey, 24 - 25 December 2022
- IV. **A Rare Case of NKX2-1- Related Chorea with Hypothyroidism**
YAKAR Ö., DEMİR A. Y.
15. Ulusal Tıbbi Genetik Kongresi, Muđla, Turkey, 9 - 13 November 2022
- V. **The Moving Genes: Transposons**

DEMİR A. Y.

2nd International Congress of Health Research, Turkey, 12 - 15 October 2022

VI. **About the Rare Genetic Diseases**

DEMİR A. Y., HİDİROĞLU N., KARADAYI M., GÜLLÜCE M.

6th International Conference on Advances in Natural and Applied Sciences, Turkey, 11 - 13 October 2022

VII. **Gene Therapy Approaches**

DEMİR A. Y.

2nd International Dr. Safiye Ali Congress on Multidisciplinary Studies in Health Sciences, Turkey, 30 September - 02 October 2022

VIII. **Investigation of Wound Healing and Antimicrobial Effects of ZnO Nanoparticles Synthesized Using Mentha longifolia L. Essential Oil**

SEZEN S., NALCI K. A., DEMİR A. Y., BAYRAM C., ÇİÇEK B., OKKAY U., GÜLLÜCE M., HACİMÜFTÜOĞLU A.

Uluslararası Biyoteknoloji Kongresi, 5 - 07 March 2020

IX. **Identification and Characterization of Potential PGPR Strains from Agricultural Areas in Erzurum-Turkey**

ALAYLAR B., GÜLLÜCE M., KARADAYI M., KOÇ T. Y., DEMİR A. Y.

4th International Conference on Advances in Natural and Applied Sciences, Ağrı, Turkey, 19 - 22 June 2019

X. **Green Synthesis of ZnO Nanoparticles Using Biological Extract of Elaeagnus Angustifolia**

HİDİROĞLU N., GÜLLÜCE M., KARADAYI G., DEMİR A. Y., KARADAYI M.

14th Nanoscience and Nanotechnology Conference, İzmir, Turkey, 22 - 25 September 2018

XI. **Pyracantha sp. Aqueous Extract Mediated Biosynthesis of ZincOxide (ZnO) Nanoparticles from Zinc Nitrate Precursor**

HİDİROĞLU N., DEMİR A. Y., KARADAYI G., KARADAYI M., GÜLLÜCE M.

International Symposium of Ecology 2018, 19 - 23 June 2018

XII. **Phosphate Solubilizing Bacteria of Magnesite Mining Fields in Kütahya**

GÜLLÜCE M., KARADAYI M., DEMİR A. Y.

I. International Agricultural Science Congress, 09 May 2018

XIII. **Biosynthesis of ZnO Nanoparticles using Aqueous Extract of Potato Peel**

HİDİROĞLU N., KARADAYI G., KARADAYI M., GÜLLÜCE M., DEMİR A. Y.

International Symposium of Ecology 2018, 26 - 27 April 2018

XIV. **Biosynthesis of ZnO nanoparticles by using aqueous extract of Robinia pseudoacacia L. seeds and their characterization**

GÜLLÜCE M., HİDİROĞLU N., KARADAYI M., KARADAYI G., DEMİR A. Y.

7th International Molecular Biology and Biotechnology Congress, 25 April 2018

XV. **Isolation of bacteriorhodopsin-producing archaea from lake tuz-Turkey and their molecular identification**

HİDİROĞLU N., KARADAYI M., GÜLLÜCE M., DEMİR A. Y., ALAYLAR B.

7th International Molecular Biology and Biotechnology Congress, 25 April 2018

XVI. **Symphoricarpos albus Aqueous Extract Mediated Biosynthesis of Zinc Oxide Nanoparticles using Zinc Acetate and Zinc Nitrate as Precursors**

GÜLLÜCE M., KARADAYI M., HİDİROĞLU N., KARADAYI G., DEMİR A. Y.

International Eurasian Conference on Biological and Chemical Sciences, 26 April 2018

XVII. **Molecular Characterization Of Two PGPR Strains From Erzurum**

ALAYLAR B., KARADAYI M., DEMİR A. Y., GÜLLÜCE M.

6th International Molecular Biology and Biotechnology Congress, 22 December 2017

XVIII. **Çinko Nitrat Öncüsünden ZnO Nanopartiküllerinin Yeşil Sentezinde Kullanılabilecek Bakterilerin İzolasyonu ve Moleküler Tanısı**

KARADAYI M., GÜLLÜCE M., DEMİR A. Y.

6. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Adana, Turkey, 5 - 07 October 2017

XIX. **Çinko Oksit Nanopartiküllerinin Ekstraselüler Biosentezinde Kullanılabilecek Bakterilerin İzolasyonu ve Moleküler Karakterizasyonu**

- KARADAYI M., GÜLLÜCE M., DEMİR A. Y.
XIII. Uluslararası Katılımlı Ekoloji ve Çevre Kongresi, Edirne, Turkey, 12 - 15 September 2017
- XX. **Çinko Klorür Öncüsünden Biyosentezlenen ZnO Nanopartiküllerinin T. aestivum Fidelerinde Büyüme İnhibisyonu**
GÜLLÜCE M., KARADAYI M., KARADAYI G., HİDİROĞLU N., DEMİR A. Y., ÖZKAN H.
2. Ulusal Uygulamalı Biyolojik Bilimler Kongresi, Edirne, Turkey, 9 - 12 July 2017
- XXI. **Çinko Nitrattan Biyosentezlenen ZnO Nanopartiküllerinin Genotoksitesisi**
KARADAYI M., GÜLLÜCE M., DEMİR A. Y., KARADAYI G.
2. Ulusal Uygulamalı Biyolojik Bilimler Kongresi, Edirne, Turkey, 9 - 12 July 2017
- XXII. **Nanotoxicologic Potential of Bio-synthesized ZnO Nanoparticles from Zinc Acetate**
GÜLLÜCE M., KARADAYI M., DEMİR A. Y.
5th International Molecular Biology and Biotechnology Congress, 25 August 2016
- XXIII. **Extracellular Biosynthesis and Characterization of ZnO Nanoparticles From Zinc Chloride By Rhodococcus erythropolis K85 Strain**
DEMİR A. Y., KARADAYI M., GÜLLÜCE M., HİDİROĞLU N.
5th International Molecular Biology and Biotechnology Congress, 25 August 2016
- XXIV. **Bacterial biosynthesis of ZnO nanoparticles from zinc acetate by Rhodococcus erythropolis K85**
Demir A. Y., KARADAYI M., HİDİROĞLU N., DOĞAN S., BOZOĞLU C., GÜLLÜCE M.
European Biotechnology Conference, Latvia, 5 - 07 May 2016, vol.231
- XXV. **Extracellular biosynthesis of ZnO nanoparticles from Zn(NO₃)₂ and their characterization**
DEMİR A. Y., KARADAYI M., GÜLLÜCE M., BARIŞ Ö., ÖĞÜTCÜ H., ALAYLAR B., AĞAR G.
7th Black Sea Basin Conference on Analytical Chemistry, 10 September 2015
- XXVI. **Extracellular Biosynthesis And Characterization Of Zno Nanoparticles Using Rhodococcus K85 Strain**
DEMİR A. Y., GÜLLÜCE M., BARIŞ Ö., ÖZNLÜER T., KARADAYI M.
1st International Conference on Engineering and Natural Sciences, Macedonia, 15 - 19 May 2015
- XXVII. **Extracellular Biosynthesis Of Biocompatible Titanium Dioxide Nanoparticles By Using Fungus Aspergillus sp.**
DEMİR A. Y., GÜLLÜCE M., BARIŞ Ö., DEMİR Ü., KARADAYI M.
1st International Conference on Engineering and Natural Sciences, Macedonia, 15 - 19 May 2015
- XXVIII. **Biosynthesis of Calciumnanoparticles by bacteria**
BARIŞ Ö., GÜLLÜCE M., DEMİR A. Y.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014

Supported Projects

DEMİR A. Y., TURGUT Z., PELİT E., TURHAN K., KARADAYI M., KOÇ T. Y., GÜLLÜCE M., Project Supported by Higher Education Institutions, Yeni Sentezlenen Kinolin Türevlerinin Genotoksik ve Antigenotoksik Etkinliklerinin Araştırılması, 2021 - 2023

Güllüce M., Karadayı M., Hıdıroğlu İspirli N., Demir A. Y., Project Supported by Higher Education Institutions, Erzurum Çevresindeki Çeşitli Toprak Ekosistemlerinden ZnO Nanopartikülü Biyosentezinde Kullanılabilecek Bakterilerin İzolasyonu ve Moleküler Karakterizasyonu, 2016 - 2016

Güllüce M., Hıdıroğlu İspirli N., Şahin M., Demir A. Y., Akmayan İ., Project Supported by Higher Education Institutions, Endüstriyel Öneme Sahip Bakteriyorodopsinojenik Ekstremofillerin İzolasyonu ve Moleküler Karakterizasyonu, 2015 - 2016

Güllüce M., Karadayı M., Bozoğlu C., Sezen S., Alaylar B., Koç T. Y., Demir A. Y., Project Supported by Higher Education Institutions, Ökaryotik Bir Model Organizma Olan Saccharomyces cerevisiae'da Sukroz Metabolizmasının Düzenlenmesinden Sorumlu Bazı Genlerin Epigenetiksel Olarak İncelenmesi, 2015 - 2015

Bariş Ö., Alou R. M., Karadayı M., Akmayan İ., Demir A. Y., Project Supported by Higher Education Institutions, Kitosan Üretiminde Kullanılabilecek Yüksek Biyokütle Verimli Mantarların İzolasyonu ve Moleküler Tanılarının Yapılması, 2015 - 2015

Metrics

Publication: 40

Citation (WoS): 4

Citation (Scopus): 13

H-Index (WoS): 1

H-Index (Scopus): 2

Non Academic Experience

University, Atatürk Üniversitesi Tıp Fakültesi Genetik Hastalıklar Tanı Merkezi, Genetik Hastalıklar Tanı Merkezi

Private Hospital, İntergen Genetik Hastalıklar Değerlendirme Merkezi, Genetik Hastalıklar Tanı Merkezi