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Education Information

Doctorate, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Tarımsal Biyoteknoloji Anabilim Dalı, Turkey 2020 - 2024

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Tarımsal Biyoteknoloji (YI) (Tezli), Turkey 2014 - 2017

Undergraduate, Ondokuz Mayıs University, Ziraat Fakültesi, Tarımsal Biyoteknoloji Bölümü, Turkey 2010 - 2014

Dissertations

Doctorate, DETERMINATION OF THE EFFECT OF ADPA PLEIOTROPIC REGULATOR ON ANTIBIOTIC BIOSYNTHESIS IN STREPTOMYCES CLAVULIGERUS, Ondokuz Mayıs University, Ziraat Fakültesi, Tarımsal Biyoteknoloji Bölümü, 2024

Postgraduate, STREPTOMYCES CLAVULIGERUS'TA LYSA GENİNİN ÇOKLU İFADESİ VE SEFAMİSİN C BİYOSENTEZİ ÜZERİNE ETKİSİ, Ondokuz Mayıs University, Tarımsal Biyoteknoloji (YI) (Tezli), 2017

Research Areas

Biotechnology, Microbiology, Molecular Biology and Genetics

Academic Titles / Tasks

Research Assistant, Ondokuz Mayıs University, Ziraat Fakültesi, Tarımsal Biyoteknoloji Bölümü, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Comprehensive characterization and resistome analysis of Antarctic Pseudomonas migulae strain CAS19**
Otur Ç., Okay S., Konuksever Ö., Duyar O., Kaya Y., Kurt Kızıldoğan A.
WORLD JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY, vol.40, no.347, pp.1-15, 2024 (SCI-Expanded)
- II. In-depth comparative transcriptome analysis of Purpureocillium sp. CB1 under cadmium stress**
Kurt-Kızıldoğan A., Otur Ç., Yıldırım K., Kavas M., Abanoz-Seçgin B.
Applied Microbiology and Biotechnology, vol.107, no.17, pp.5453-5467, 2023 (SCI-Expanded)

- III. **The regulatory role of Fur-encoding SCLAV_3199 in iron homeostasis in *Streptomyces clavuligerus***
Abanoz-Seçgin B., Otur Ç., Okay S., Kurt Kızıdoğan A.
Gene, vol.878, 2023 (SCI-Expanded)
- IV. **Improved production of poly(3-hydroxybutyrate) by extremely halophilic archaeon *Haloarcula* sp. TG1 by utilization of rCKT3eng-treated sugar beet pulp**
Kurt Kızıdoğan A., Ture E., Okay S., Otur Ç.
BIOMASS CONVERSION AND BIOREFINERY, vol.13, no.12, pp.10911-10921, 2023 (SCI-Expanded)
- V. **Whole genome analysis of *Flavobacterium aziz-sancarii* sp. nov., isolated from Ardley Island (Antarctica), revealed a rich resistome and bioremediation potential**
Otur Ç., Okay S., Kurt Kızıdoğan A.
CHEMOSPHERE, vol.313, 2023 (SCI-Expanded)
- VI. **Cu(I)-*N*-heterocyclic carbene complexes bearing a naphthyl substituent: synthesis, characterization, and antimicrobial activities**
Tokatli A., Demir B., Kiliç N., Kurt Kızıdoğan A., Otur Ç., Kiliçarslan R., Karakaş H., Özdemir N., Bülbül H.
JOURNAL OF COORDINATION CHEMISTRY, vol.76, no.13-15, pp.1745-1762, 2023 (SCI-Expanded)
- VII. **Investigation and Expression Analysis of R2R3-MYBs and Anthocyanin Biosynthesis-Related Genes during Seed Color Development of Common Bean (*Phaseolus vulgaris*)**
Kavas M., Abdulla M. F., Mostafa K., Secgin Z., Yerlikaya B. A., Otur Ç., Gokdemir G., Kurt Kızıdoğan A., Al-Khayri J. M., Jain S. M.
PLANTS-BASEL, vol.11, no.23, 2022 (SCI-Expanded)
- VIII. **Synthesis and biological activity of new indole based derivatives as potent anticancer, antioxidant and antimicrobial agents**
Konus M., Çetin D., Kızıllan N. D., Yılmaz C., Fidan C., Algo M., Kavak E., KIVRAK A., Kurt Kızıdoğan A., Otur Ç., et al.
Journal of Molecular Structure, vol.1263, 2022 (SCI-Expanded)
- IX. **A Thiophene Derivative, 2-Bromo-5-(2-(methylthio)phenyl)thiophene, Has Effective Anticancer Potential with Other Biological Properties**
Yılmaz C., Othman Pirdawid A., Fidan Babat C., Konuş M., Çetin D., KIVRAK A., Algo M. A. S., Arslan Ş., Mutlu D., Otur Ç., et al.
ChemistrySelect, vol.7, no.15, 2022 (SCI-Expanded)
- X. **A Novel 4H-Chromen-4-One Derivative from Marine *Streptomyces ovatisporus* S4702T as Potential Antibacterial and Anti-Cancer Agent**
Kurt Kızıdoğan A., Akarsu N., Otur Ç., Kivrak A., Aslan-Ertas N., Arslan Ş., Mutlu D., Konuş M., Yılmaz C., Cetin D., et al.
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.22, no.3, pp.362-370, 2022 (SCI-Expanded)
- XI. **EVALUATION OF ANTIMICROBIAL ACTIVITY IN EXTRACTS OF DIFFERENT PARTS OF THREE TAGETES SPECIES**
Latifian E., Otur Ç., Abanoz-Seçgin B., Arslanoğlu Ş. F., Kurt Kızıdoğan A.
TURKISH JOURNAL OF FIELD CROPS, vol.26, no.1, pp.116-121, 2021 (SCI-Expanded)
- XII. **Identification of 3-Bromo-1-Ethyl-1H-Indole as a Potent Anticancer Agent with Promising Inhibitory Effects on GST Isozymes**
Yılmaz C., ARSLAN Ş., Mutlu D., Konuş M., Kayhan A., Kurt Kızıdoğan A., Otur Ç., Ozok O., Kivrak A.
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.21, no.6, pp.1292-1300, 2021 (SCI-Expanded)
- XIII. **Synthesis, Cytotoxicity, Antioxidant and Antimicrobial Activity of Indole Based Novel Small Molecules**
Kurt Kızıdoğan A., Otur Ç., Yılmaz C., ARSLAN Ş., Mutlu D., KIVRAK A., Algo M., Kayhan A., cetin D., Konuş M.
LETTERS IN DRUG DESIGN & DISCOVERY, vol.18, no.5, pp.461-470, 2021 (SCI-Expanded)
- XIV. **Enhanced Tunicamycin Biosynthesis in BldG Overexpressed *Streptomyces clavuligerus***
Bas L., Otur Ç., Kurt Kızıdoğan A.
APPLIED BIOCHEMISTRY AND MICROBIOLOGY, vol.56, no.4, pp.412-419, 2020 (SCI-Expanded)
- XV. **Homologous expression of *lysA* encoding diaminopimelic acid (DAP) decarboxylase reveals increased antibiotic production in *Streptomyces clavuligerus***
Otur Ç., Kurt Kızıdoğan A.

BRAZILIAN JOURNAL OF MICROBIOLOGY, vol.51, no.2, pp.547-556, 2020 (SCI-Expanded)

XVI. Synthesis, Biological Evaluation and Molecular Docking of Novel Thiophene-Based Indole Derivatives as Potential Antibacterial, GST Inhibitor and Apoptotic Anticancer Agents

Konuş M., Cetin D., Yılmaz C., ARSLAN Ş., Mutlu D., Kurt Kızıldoğan A., Otur Ç., Ozok O., Algo M. A. S., Kivrak A. CHEMISTRYSELECT, vol.5, no.19, pp.5809-5814, 2020 (SCI-Expanded)

XVII. Molecular and biochemical characterization of a recombinant endoglucanase rCKT3eng, from an extreme halophilic Haloarcula sp. strain CKT3

Safak H., Otur Ç., Kurt Kızıldoğan A.

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.151, pp.1173-1180, 2020 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **DETERMINATION OF METAL AND HEAVY METAL RESISTANCE IN MICROORGANISMS ISOLATED FROM ASBESTOS-CONTAMINATED SOIL**
YAVUZ Ö., OTUR Ç., YILDIRIM K., KURT KIZILDOĞAN A.
6. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, 10 August 2024
- II. **RNA-Seq Analysis of Streptomyces clavuligerus Lacking TunRS Two-Component System**
KURT KIZILDOĞAN A., OTUR Ç., OKAY S., TUNCA GEDİK S.
11th INTERNATIONAL MAY 19 INNOVATIVE SCIENTIFIC APPROACHES CONGRESS, 19 - 20 May 2024
- III. **Tunrs İki Bileşenli Sistemin Streptomyces clavuligerus'ta Sefamisinc ve Klavulanik Asit Üretimi Üzerindeki Düzenleyici Etkisi**
OTUR Ç., KONUKSEVER Ö., ÖZAYDIN F., OKAY S., TUNCA GEDİK S., KURT KIZILDOĞAN A.
22. ULUSLARARASI KATILIMLI BİYOTEKNOLOJİ KONGRESİ, Ankara, Turkey, 20 October 2023, pp.23
- IV. **Streptomyces clavuligerus'ta Lysa ve Ccar Genlerinin Sefamisin C Biyosentezi Üzerindeki Etkileri**
OTUR Ç., KURT KIZILDOĞAN A., ÖZCENGİZ G.
19. uluslararası katılımlı ulusal biyoteknoloji kongresi, 01 December 2017
- V. **RNA-SEQ ANALYSIS OF FUR-LIKE SCLAV_01120 MUTANT OF STREPTOMYCES CLAVULIGERUS**
KURT KIZILDOĞAN A., ABANOZ SEÇGİN B., OTUR Ç., OKAY S., TÜRE E., ŞAFAK H.
10th Balkan Congress of Microbiology, 16 November 2017
- VI. **THE POSSIBLE EFFECTS OF CCAR AND BLDG REGULATORY GENES IN THE EXPRESSION OF TUNICAMYCIN GENE CLUSTER IN STREPTOMYCES CLAVULIGERUS**
KURT KIZILDOĞAN A., OTUR Ç., BAŞ L.
IDDGC17 INTERNATIONAL DNA DAY AND GENOME CONGRESS-Uluslararası DNA günü ve genom kongresi, 24 April 2017
- VII. **Streptomyces clavuligerus'ta Farklı Besiyeri Tiplerinin Antibiyotik Üretimi Üzerine Olan Etkileri**
OTUR Ç., S. Esmâ K., KURT KIZILDOĞAN A.
1. ULUSAL TARIMSAL BİYOTEKNOLOJİ KONGRESİ, 01 June 2016
- VIII. **Üç Farklı Bacillus thuringiensis Alttürünün Kitinaz Üretimlerinin Karşılaştırılması**
ABANOZ SEÇGİN B., BAŞ L., OTUR Ç., BİBER M., KURT KIZILDOĞAN A.
1. ULUSAL TARIMSAL BİYOTEKNOLOJİ KONGRESİ, 01 June 2016
- IX. **Streptomyces clavuligerus'a Ait BldG Proteininin Escherichia coli BL21(DE3) Hücrelerinde İfadesi**
OTUR Ç., BAŞ L., KURT KIZILDOĞAN A.
18. ULUSAL BİYOTEKNOLOJİ KONGRESİ, 18 December 2015
- X. **Streptomyces clavuligerus'a demir regülasyonunda rol alması muhtemel üç regülatör genin antibiyotik direnç genleriyle tahrip edilmesi**
ABANOZ SEÇGİN B., BAŞ L., OTUR Ç., OKAY S., KURT KIZILDOĞAN A.
18. ULUSAL BİYOTEKNOLOJİ KONGRESİ, 18 December 2015

Supported Projects

Kurt Kızıdođan A., KONUŞ M., YILMAZ C., Otur Ç., ÖZTÜRK M., ARSLAN Ş., Project Supported by Higher Education Institutions, Biyoaktivite rehberliğinde Streptomyces sp GA3ten ilaç aday molekülü taranması ve karakterizasyonu, 2024 - Continues

Kurt Kızıdođan A., Otur Ç., Okay S., Project Supported by Higher Education Institutions, Determination of activity and stability of a recombinant extremozyme at free and immobilized state, 2022 - 2024

Kurt Kızıdođan A., Okay S., Tunca Gedik S., TUBITAK Project, Investigation of the Regulatory Effect of TunRS Two Component System on Tunicamycin Biosynthesis in Streptomyces clavuligerus, 2021 - 2024

Kurt Kızıdođan A., Okay S., Otur Ç., Project Supported by Higher Education Institutions, Molecular characterization and determination of biotechnological potentials of three bacteria isolated from Lake Ardley Island , 2022 - 2023

Kurt Kızıdođan A., Otur Ç., Project Supported by Higher Education Institutions, Determination of the effect of AdpA pleiotropic regulator in antibiotic production in Streptomyces clavuligerus, 2021 - 2023

Kurt Kızıdođan A., TUBITAK Project, Determination of the Effect of AdpA Pleiotropic Regulator on Tunicamycin Biosynthesis in Streptomyces clavuligerus, 2018 - 2020

Kurt Kızıdođan A., Okay S., TUBITAK Project, Determination of the Relationship Between Iron Regulation and Antibiotic Biosynthesis in Streptomyces Clavuligerus, 2015 - 2018