

## Assoc. Prof. Bilgin Taşkın

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-9772-7438

Publons / Web Of Science ResearcherID: ADJ-1496-2022

ScopusID: 55410377200

Yoksis Researcher ID: 46278

### Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyoteknoloji , Turkey  
2005 - 2011

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyoteknoloji , Turkey  
2002 - 2005

Undergraduate, Middle East Technical University, Fen Edebiyat Fakültesi, Biyoloji , Turkey 1998 - 2002

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Selective quantification of viable Escherichia coli cells in biosolids upon propidium monoazide treatment by quantitative PCR, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyoteknoloji , 2011

Postgraduate, Effect of homologous multiple copies of aspartokinase gene on cephamycin C biosynthesis in Streptomyces clavuligerus, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyoteknoloji , 2005

### Research Areas

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

### Academic Titles / Tasks

Associate Professor, Van Yüzüncü Yil University, Ziraat Fakültesi, Tarımsal Biyoteknoloji Bölümü, 2024 - Continues

Assistant Professor, Van Yüzüncü Yil University, Ziraat Fakültesi, Tarımsal Biyoteknoloji Bölümü, 2018 - 2024

Assistant Professor, Van Yüzüncü Yil University, Ziraat Fakültesi, Tarımsal Biyoteknoloji Bölümü, 2016 - 2018

Research Assistant PhD, Ondokuz Mayıs University, Fen Edebiyat Fakültesi, Biyoloji , 2011 - 2016

Research Assistant, Middle East Technical University, Fen Edebiyat Fakültesi, Biyoloji , 2002 - 2011

## Academic and Administrative Experience

Coordinator of The Rectorate, Van Yüzüncü Yil University, Ziraat Fakültesi, Tarımsal Biyoteknoloji Bölümü, 2021 - 2021

## Courses

Moleküler Biyoloji, Undergraduate, 2022 - 2023  
Genetik Mühendisliği, Postgraduate, 2022 - 2023  
Mikrobiyal Genetik ve Gen Regülasyonu, Undergraduate, 2018 - 2019  
Mikrobiyal Biyoteknoloji, Postgraduate, 2018 - 2019, 2016 - 2017  
Moleküler Genetik-II, Undergraduate, 2016 - 2017  
Proteomik, Undergraduate, 2016 - 2017  
Genetik Mühendisliği ve Uygulamaları, Postgraduate, 2016 - 2017  
Genetiği Değiştirilmiş Organizmalar, Undergraduate, 2016 - 2017  
Rekombinant DNA Teknolojisi, Undergraduate, 2016 - 2017  
Sekonder Metabolitler, Undergraduate, 2016 - 2017

## Advising Theses

Taşkın B., INVESTIGATION OF THE RESISTANCE OF BACTERIAL ISOLATES HARBOURING PLANT GROWTH-PROMOTING MARKERS TO SOME ABIOTIC STRESS CONDITIONS UNDER IN VITRO CONDITIONS, Postgraduate, Ş.DEMİR(Student), 2024  
Taşkın B., ELUCIDATION OF BIOACTIVE METABOLITE PRODUCTION POTENTIAL OF ENDOPHYTE BACTERIAL ISOLATES BY WHOLE GENOME SEQUENCING AND POLYPHASIC CHARACTERISATION, Postgraduate, T.ORUÇ(Student), 2024  
Taşkın B., WHOLE GENOME ANALYSIS, BIOCHEMICAL CHARACTERIZATION AND INVESTIGATION OF RESISTANCE TO SOME METALS OF G15S1 ENDOPHYTE BACTERIAL ISOLATE, Postgraduate, R.GÖK(Student), 2023  
Taşkın B., Çeşitli tek yıllık bitkilerden izole edilmiş olan endofit bakterilerde siderofor üretim potansiyelleri, Postgraduate, Ş.ATBAŞ(Student), 2022  
Taşkın B., TAHIL BİTKİLERİNDEN İZOLE EDİLMİŞ OLAN ENDOFİT BAKTERİLERDE BİYOTEKNOLOJİK ÖNEME SAHİP BAZI ENZİMLERİN BELİRLENMESİ, Postgraduate, G.DOĞAN(Student), 2020

## Jury Memberships

Doctorate, Doctorate, Koç Üniversitesi, March, 2024  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, November, 2022  
Post Graduate, Post Graduate, Ondokuz Mayıs Üniversitesi, September, 2022  
Post Graduate, Post Graduate, Ondokuz Mayıs Üniversitesi, August, 2022  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2021  
Post Graduate, Post Graduate, Van Yüzüncü Yil Üniversitesi, June, 2021  
Doctoral Examination, Doktora Yeterlilik Sınav Jürisi, Van Yüzüncü Yil Üniversitesi, December, 2019  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, August, 2019  
Post Graduate, Tez Savunma Jürisi, Van Yüzüncü Yil Üniversitesi, May, 2019  
Post Graduate, Tez Savunma Jürisi, Van Yüzüncü Yil Üniversitesi, May, 2019  
Post Graduate, Post Graduate, Dicle Üniversitesi, January, 2019  
Doctorate, Doctorate, Dicle Üniversitesi, January, 2019

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

- I. **Application of iPBS-retrotransposons markers for the assessment of genetic diversity and population structure among sugar beet (*Beta vulgaris*) germplasm from different regions of the world**  
Sadık G., Yıldız M., Taşkın B., Koçak M., Cavagnaro P. F., Baloch F. S.  
GENETIC RESOURCES AND CROP EVOLUTION AN INTERNATIONAL JOURNAL, vol.1, no.1, pp.1-11, 2024 (SCI-Expanded)
- II. **Start-up strategies of electromethanogenic reactors for methane production from cattle manure**  
Ghaderikia A., Taşkın B., YILMAZEL TOKEL Y. D.  
Waste Management, vol.159, pp.27-38, 2023 (SCI-Expanded)
- III. **Hydrolytic Enzymes Producing Bacterial Endophytes of Some Poaceae Plants**  
Doğan G., Taşkın B.  
Polish Journal Of Microbiology, vol.70, no.3, pp.297-304, 2021 (SCI-Expanded)
- IV. **Antibacterial activity of different kefir types against various plant pathogenic bacteria**  
Taşkın B., Akköprü A.  
Tarım Bilimleri Dergisi, vol.26, no.3, pp.316-323, 2020 (SCI-Expanded)
- V. **Exploring the genetic variations and population structure of Turkish pepper (*Capsicum annuum* L.) genotypes based on peroxidase gene markers**  
Akyavuz R., Taşkın B., Koçak M., Yıldız M.  
3 BIOTECH, vol.8, no.8, 2018 (SCI-Expanded)
- VI. **The effect of managing nutrients in the performance of anaerobic digesters of municipal wastewater treatment plants**  
Demirer S. U., Taskin B., Demirer G. N., Duran M.  
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.97, no.17, pp.7899-7907, 2013 (SCI-Expanded)
- VII. **High level multiple antibiotic resistance among fish surface associated bacterial populations in non-aquaculture freshwater environment**  
Ozaktas T., Taskin B., GÖZEN A. G.  
WATER RESEARCH, vol.46, no.19, pp.6382-6390, 2012 (SCI-Expanded)
- VIII. **Selective Quantification of Viable Escherichia coli Bacteria in Biosolids by Quantitative PCR with Propidium Monoazide Modification**  
Taskin B., GÖZEN A. G., Duran M.  
APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.77, no.13, pp.4329-4335, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Effect of Different Metals on Synthesis of Siderophores by Endophyte Bacteria Isolated from Various Annual Plants**  
Atbaş Ş., Taşkın B.  
Yüzüncü Yıl Üniversitesi Ziraat Fakültesi Tarım Bilimleri Dergisi, vol.34, no.3, pp.409-419, 2024 (Peer-Reviewed Journal)
- II. **Gökkuşığı Alabalıklarından (*Oncorhynchus mykiss*) İzole Edilen Patojen Bakteri İzolatlarının Hidrolitik Enzim Aktiviteleri ve Siderofor Üretim Yetenekleri**  
Taşkın B., Önalın Ş.  
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.27, no.3, pp.512-520, 2022 (Peer-Reviewed Journal)
- III. **Identification and Antimicrobial Activity of Actinobacteria Isolated from Rhizosphere of the Local Endemic Plants**  
Özakın S., Taşkın B., Bostancı E. İ.  
Yüzüncü Yıl Üniversitesi Ziraat Fakültesi Tarım Bilimleri Dergisi, vol.31, no.4, pp.876-885, 2021 (Peer-Reviewed Journal)
- IV. **Kefiran Ekstraktının Bazı Bitki Patojeni Bakterilerine Karşı Antimikrobiyal Etkisinin Değerlendirilmesi**

Taşkın B.

TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.8, no.4, pp.889-894, 2020 (Peer-Reviewed Journal)

V. **Novel Approaches for Monitoring Viable Pathogenic Microorganisms in Environmental Samples**

Taşkın B.

Yüzüncü Yıl Üniversitesi Ziraat Fakültesi Tarım Bilimleri Dergisi, vol.27, no.2, pp.285-291, 2017 (Peer-Reviewed Journal)

VI. **Homologous expression of aspartokinase (ask) gene in Streptomyces clavuligerus and its hom-deleted mutant: Effects on cephamycin C production**

Özcengiz G., Okay S., Ünsaldı E., Taşkın B., Lıras P., Pıret J.

Bioengineered Bugs, vol.1, no.3, pp.191-197, 2010 (Scopus)

## Books & Book Chapters

I. **Dizi Karşılaştırmaları ve Dizi-Temelli Veri Tabanı Aramaları**

Son Y. A., Taşkın B.

in: Uygulamalı Biyoinformatik, Tunçer M., Ay H., Editor, Palme Yayınevi, Ankara, pp.35-49, 2019

## Refereed Congress / Symposium Publications in Proceedings

I. **EFFECT OF PEG-INDUCED DROUGHT STRESS ON SOME ENDOPHYTE BACTERIAL ISOLATES**

Taşkın B.

12th INTERNATIONAL İSTANBUL SCIENTIFIC RESEARCH CONGRESS ON LIFE, ENGINEERING, AND APPLIED SCIENCES, İstanbul, Turkey, 21 - 23 January 2023, pp.70

II. **Siderophore Production and Heavy Metal Relationship in Endophyte Bacteria Isolated from Various Cereal Crops**

Atbaş Ş., Taşkın B.

7th International Congress on Applied Biological Science (ICABS), Adana, Turkey, 1 - 02 November 2022, pp.22

III. **In vitro Antibacterial Activity of Various Types of Extracts of Streptomyces Isolated from Rhizosphere of the Local Endemic Plants Against Several Plant Pathogenic Bacteria**

Taşkın B., Kum E., Akköprü A., İnce E.

5 th International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 23 November - 25 December 2022, pp.156

IV. **In Vitro Antibacterial Effect Of Several Endophytic Bacteria Isolated from Various Cereal Plants against Erwinia amylovora (Ea) and Clavibacter michiganensis Subsp. michiganensis (Cmm) Plant Pathogens**

Özcan Yardım D., Taşkın B.

IV International Conference of Food, Agriculture, and Veterinary Sciences, Van, Turkey, 27 - 28 May 2022, pp.342-343

V. **Screening of copA Gene, The Marker Of the copABCDRS Operon, In Some Endophytic Bacteria Isolates**

Taşkın B.

EUROASIA SUMMIT 5th INTERNATIONAL APPLIED SCIENCES CONGRESS, Varna, Bulgaria, 15 - 16 January 2022, pp.85

VI. **Determination of ACC Deaminase Enzyme Production and Nitrogen Fixation Characteristics of Endophytic Bacteria**

Özcan Yardım D., Uçar C. P., Taşkın B., Atbaş Ş., Akköprü A.

2nd International Congress of the Turkish Journal of Agriculture - Food Science and Technology, Niğde, Turkey, 25 - 29 October 2021, pp.64

- VII. **Comparison of Two Differential Media in Screening of Entophytic Bacteria for Siderophore Production**  
Atbaş Ş., Taşkın B., Uçar C. P., Özcan Yardım D., Akköprü A.  
3RD INTERNATIONAL CONFERENCE ON FOOD, AGRICULTURE AND ANIMAL SCIENCES 13-17 OCTOBER 2021  
Erzurum, TURKEY, Erzurum, Turkey, 13 - 17 October 2021, pp.51
- VIII. **Potential of Endophytic Bacteria Isolated from Various Cereal Plants to Produce Some Extracellular Enzymes of Biotechnological Importance**  
Doğan G., Taşkın B.  
10th International Molecular Biology and Biotechnology Congress, Adana, Turkey, 4 - 08 October 2021, pp.59
- IX. **Van G lü Havzasındaki Yabani ve Kültüre Alınan Buğdaygil Türlerinden Endofit Bakteri İzolasyonu ve Karakterizasyonu**  
Pınar Uçar C., Akköprü A., Taşkın B., Özcan Yardım D., Arpalı D.  
8. Uluslararası Katılımlı Bitki Koruma Kongresi, Bolu, Turkey, 24 August 2021 - 28 January 2022, pp.255
- X. **Endophytes: New Opportunities for Biotechnological Applications**  
Taşkın B., Solmaz F. G.  
2nd International Symposium on Innovative Approaches in Scientific Studies, Samsun, Turkey, 30 November - 02 December 2018, pp.23
- XI. **Alternative and Innovative Approaches for Controlling Crop Bacterial Diseases**  
Taşkın B., Solmaz F. G.  
2nd International Symposium on Innovative Approaches in Scientific Studies, Samsun, Turkey, 30 November - 02 December 2018, pp.24
- XII. **In vitro Evaluation of Antimicrobial Activity of Kefir Products from Different Origins Against Various Plant Pathogens**  
Taşkın B., Akköprü A.  
International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, pp.24
- XIII. **Metabolic engineering of aspartate pathway for increased production of cephamycin C in Streptomyces clavuligerus**  
Okay S., Ünsaldı E., Taşkın B., Kurt A., Piret J., Liras P., Özcengiz G.  
BIOTECH METU 2009, International Symposium on Biotechnology: Developments and Trends, Ankara, Turkey, 27 - 30 October 2009, pp.99
- XIV. **Isolation and identification of multiple antibiotic resistance bacteria from surface mucus of freshwater fish**  
Özaktaş T., Taşkın B., Gözen A. G.  
3rd FEMS Congress of European Microbiologists, Gothenburg, Sweden, 28 June - 02 July 2009, pp.82
- XV. **16s rRNA gene sequence analysis and partial biochemical characterization of the fish associated bacteria isolated from lake Mogan in Turkey**  
Taşkın B., Solmaz G., Gözen A. G.  
XII. International Congress of Bacteriology and Applied Microbiology, IUMS, İstanbul, Turkey, 5 August - 09 May 2008, pp.148
- XVI. **Streptomyces clavuligerus'un parental suşunda ve homoserin dehidrogenaz bloke mutantında aspartokinaz geninin homolog çoklu kopyalarının sefamisin C üretimine etkisinin karşılaştırılması**  
Taşkın B., Çaydaşı A. K., Özcengiz G.  
XV. Ulusal Biyoteknoloji Kongresi, Antalya, Turkey, 01 October 2007, pp.299
- XVII. **Aspartate pathway engineering for improving cephamycin C yields in S. clavuligerus**  
Taşkın B., Çaydaşı A. K., Yılmaz E. İ., Özcengiz G.  
2nd FEMS Congress of European Microbiologists, Madrid, Spain, 4 - 06 July 2006, pp.128
- XVIII. **Effect of homologous copies of ask gene on cephamycin C biosynthesis in Streptomyces clavuligerus**  
Taşkın B., Tunca S., Özcengiz G.  
31st FEBS Congress: Molecules in Health and Disease, İstanbul, Turkey, 24 - 29 June 2006, pp.325
- XIX. **Streptomyces clavuligerus aspartokinaz (ask) geninin çoklu kopyalarının sefamisin C üretici organizmada oluşturulması için yaklaşımlar**

Taşkın B., Tunca S., Özcengiz G.

XIV. Ulusal Biyoteknoloji Kongresi, Erzurum, Turkey, 01 August 2005, pp.606

## Supported Projects

- Akköprü A., PELLEGRİNİ M., DJEBAILI R., FARDA B., Taşkın B., Rezaee Danesh Y., SABBI E., UÇAR C. P., Project Supported by Higher Education Institutions, Ceviz Yetiştiriciliği için Sürdürülebilir Mikrobiyal Stratejiler: Rizosfer Mikrobiyomu ve Aktinomisetlerin Rolü, 2024 - Continues
- Taşkın B., Uçar C. P., TUBITAK Project, Rhizosphere Microbiome Engineering: Effects of Endophyte Bacteria and Fertilizer Applications on Rhizospheric Soil Microbiome Composition and Growth Parameters of Pepper (*Capsicum annuum*) Plant, 2024 - 2026
- Taşkın B., ORUÇ T., Project Supported by Higher Education Institutions, Endofit Bakteri İzolatlarının Tüm Genom Dizilemesi ve Polifazik Karakterizasyonu ile Biyoaktif Metabolit Üretme Potansiyellerinin Açığa Çıkarılması, 2023 - 2024
- Taşkın B., GÖK R., Project Supported by Higher Education Institutions, Endofit Bakteri G15S1 İzolatının Tüm Genom Dizilemesi Biyokimyasal Karakterizasyonu ve Bazı Ağır Metaller Karşı Duyarlılığının İncelenmesi, 2022 - 2023
- Akköprü A., Taşkın B., Arpalı D., Özcan Yardım D., UÇAR C. P., Project Supported by Higher Education Institutions, Van Gölü havzasındaki kültür ve yabani buğdaygil türlerinden Endofit Bakteri izolasyonu karakterizasyonu ve bu bakterilerin kuraklık stresi ve bitki gelişimine olan etkinliklerinin belirlenmesi, 2020 - 2023
- Taşkın B., ATBAŞ Ş., Project Supported by Higher Education Institutions, Çeşitli tek yıllık bitkilerden izole edilmiş olan endofit bakterilerde siderofor üretim potansiyelleri, 2019 - 2022
- Taşkın B., DOĞAN G., Project Supported by Higher Education Institutions, Tahl Bitkilerinden İzole Edilmiş Olan Endofit Bakterilerde Biyoteknolojik Öneme Sahip Bazı Enzimlerin Belirlenmesi, 2018 - 2020
- Taşkın B., DEMİREL A., Project Supported by Higher Education Institutions, Kefiran Ekstraktının Bitki Patojeni Bakteriler Üzerindeki Antibakteriyel Etkisinin İn Vitro Koşullarda İncelenmesi, 2017 - 2019
- Demir S., Rişvanlı M. R., ÖZDEMİR B., Arvas Ö., Kaya İ., Zorer Çelebi Ş., Ekin Z., Akköprü A., Taşkın B., Erdinç Ç., et al., Project Supported by Higher Education Institutions, International Agricultural Science Congress, 2017 - 2018
- Taşkın B., TUBITAK Project, Sefamisin C üreticisi *Streptomyces clavuligerus*'un homoserin dehidrogenaz geninin klonlanması, enzimin karakterizasyonu ve gen blokasyonunun antibiyotik üretimine etkisinin incelenmesi, 2004 - 2006

## Scientific Refereeing

- Project Supported by Higher Education Institutions, BAP Research Project, Ondokuz Mayıs University, Turkey, June 2022
- Project Supported by Higher Education Institutions, BAP Research Project, Yıldız Technical University, Turkey, May 2022
- Project Supported by Higher Education Institutions, BAP MSc, Akdeniz University, Turkey, May 2020
- Yüzüncü Yıl Üniversitesi Tarım Bilimleri Dergisi, National Scientific Refreed Journal, February 2020
- Project Supported by Higher Education Institutions, February 2020
- International Journal of Life Sciences and Biotechnology, National Scientific Refreed Journal, January 2020
- Project Supported by Higher Education Institutions, November 2019
- Yüzüncü Yıl Üniversitesi Tarım Bilimleri Dergisi, National Scientific Refreed Journal, June 2019
- International Journal of Life Sciences and Biotechnology, National Scientific Refreed Journal, March 2019

## Tasks In Event Organizations

- Taşkın B., Önalın Ş., Uygulamalı Moleküler Teknikler Çalıştayı, Workshop Organization, Van, Turkey, Ağustos 2022
- Önalın Ş., Görgişen G., Taşkın B., Yavuz H. İ., Sancak T., Rişvanlı M. R., Çakmakçı Ö., Bakterilerde biyoinformatik, Workshop Organization, Van, Turkey, Eylül 2020

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

EMBO (European Molecular Biology Organization) alıřma Gurubu, TUBİTAK, Turkey, 2019 - Continues

## **Metrics**

Publication: 34

Citation (WoS): 123

Citation (Scopus): 163

H-Index (WoS): 4

H-Index (Scopus): 5

## **Scholarships**

2211-TÜBİTAK Yurt İi Doktora Bursu, TUBİTAK, 2006 - 2010

ODTÜ Mezunlar Derneęi Lisans Bursu, University, 1999 - 2002

## **Non Academic Experience**

Villanova University/Faculty of Engineering/Environmental Biotechnology