

## Lect. PhD ZEYNEP DEMİR ÖKSÜZ

### Personal Information

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### Education Information

Doctorate, Gebze Technical University, Faculty Of Basic Sciences, Department Of Molecular Biology And Genetics, Turkey 2012 - 2019

Postgraduate, Gebze Technical University, Faculty Of Basic Sciences, Department Of Molecular Biology And Genetics, Turkey 2009 - 2012

Undergraduate, Kütahya Dumlupınar University, FEN EDEBİYAT FAKÜLTESİ, BİYOLOJİ, Turkey 2005 - 2009

### Dissertations

Doctorate, Effect of Lon protease on secondary metabolite production in streptomyces coelicolor A3(2), Gebze Technical University, Faculty Of Basic Sciences, Department Of Molecular Biology And Genetics, 2019

Postgraduate, Relation between putative poly- $\beta$ -hydroxybutyrate synthase gene (phaC) and antibiotic biosynthesis in streptomyces coelicolor, Gebze Technical University, Institute Of Science, Molecular Biology and Genetics, 2012

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Lecturer PhD, Karadeniz Technical University, Rektörlük, İLAÇ VE FARMASOTİK TEKNOLOJİ UYGULAMA VE ARAŞTIRMA MERKEZİ, 2021 - Continues

Research Assistant, Gebze Technical University, Faculty Of Basic Sciences, Department Of Molecular Biology And Genetics, 2015 - 2019

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

- I. **Heterologous expression of 8-demethyl-tetracenomycin (8-dmtc) affected Streptomyces coelicolor life cycle**  
Cinar B., Demir Z., Tunca S.  
BRAZILIAN JOURNAL OF MICROBIOLOGY, vol.52, no.3, pp.1107-1118, 2021 (SCI-Expanded)
- II. **Polyhydroxyalkanoate accumulation in Streptomyces coelicolor affected by SCO7613 gene region**  
Demir Oksuz Z., Doruk T., Yağcı N., Tunca Gedik S.  
TURKISH JOURNAL OF BIOLOGY, vol.45, no.3, pp.275-286, 2021 (SCI-Expanded)
- III. **One Extra Copy of lon Gene Causes a Dramatic Increase in Actinorhodin Production by Streptomyces**

### **coelicolor A3(2)**

Demir Z., Bayraktar A., Tunca S.

CURRENT MICROBIOLOGY, vol.76, no.9, pp.1045-1054, 2019 (SCI-Expanded)

#### **IV. Polyphosphate protects bacillus thuringiensis cells against reduced internal pH**

Doruk T., Demir Z., Gedik S. T.

NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)

#### **V. Relation between putative poly-beta-hydroxybutyrate synthase gene (phaC) and antibiotic biosynthesis in streptomyces coelicolor**

Demir Z., Doruk T., Gedik S. T.

NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. Antiproliferative effect of Astragaloside-IV in a cell culture model of psoriasis**  
SEVGİ S., DEMİR ÖKSÜZ Z., GÜN E., BÜYÜKTAŞ A., ÇAKIR ÇOBAN C.  
9th International BAU Drug Design Congress, İstanbul, Turkey, 29 November - 03 December 2023
- II. Repositioning of trimetazidine: Effects in an in vitro model of psoriasis**  
Demirçi B., Gün E., Demir Öksüz Z., Sevgi S., Kaya Yaşar Y., Engin S., Dinçer T.  
9th International BAU Drug Design Congress, İstanbul, Turkey, 29 November - 02 December 2023
- III. An Extensive Study: Creation of A New Inverted Microscope Image Data Set and Improving Auto-Encoder Models for Higher Accuracy Segmentation of HaCaT Cell Culture Line**  
DOĞAN H., DEMİR ÖKSÜZ Z., SEZEN F. S., DOĞAN R. Ö.  
5th International Congress on Human-Computer Interaction, Optimization and Robotic Applications., Turkey, 8 - 10 June 2023, pp.1-6
- IV. Molecular mechanisms affecting secondary metabolite production in Streptomyces coelicolor**  
Bayraktar Kavalcı A., DEMİR ÖKSÜZ Z., YILMAZ H., Demir G., TUNCA GEDİK S.  
Üniversite, Trabzon, Turkey, 19 April 2019
- V. The effect of one extra copy of lon protease gene on Streptomyces coelicolor**  
Bayraktar Kavalcı A., Demir G., DEMİR ÖKSÜZ Z., TUNCA GEDİK S.  
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 April 2018
- VI. Comparison of antibiotic production profile of Streptomyces coelicolor M145 Δppk and Streptomyces coelicolor A3(2) Δppk**  
Demir G., Bayraktar A., Demir Öksüz Z., Doruk T., Tunca Gedik S.  
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018
- VII. Heterologous expression of Streptomyces coelicolor A3(2) "relA" and "lon" genes in different Escherichia coli mutants**  
Yılmaz H., Cesur M., Demir Öksüz Z., Doruk T., Tunca Gedik S.  
XVIII. International Symposium on the Biology of Actinomycetes (ISBA), Jeju-Si, South Korea, 23 - 27 May 2017
- VIII. Relation between Lon protease enzyme and antibiotic production in Streptomyces coelicolor**  
Demir Öksüz Z., Tunca Gedik S.  
3rd International Conference on Engineering and Natural Science (ICENS), Budapest, Hungary, 3 - 07 May 2017

## **Supported Projects**

GEZE SAATÇI Ş., SEVGİ S., ERDEMİR F., SERDAROĞLU V., DEMİR ÖKSÜZ Z., ÖZCAN K., ÇOBAN Ö., Project Supported by Higher Education Institutions, Pediyatrik anestezi premedikasyonunda pediyatrik kullanılmaya uygun midazolam nanopartikül oral film formülasyonların geliştirilmesi ve moleküler toksisitesinin incelenmesi, 2022 - Continues  
DEMİR ÖKSÜZ Z., DİNÇER T., RENDA G., SEVGİ S., GÜN E., UZUN Ü., Project Supported by Higher Education Institutions, Tchihatchewia isatidea ekstralarının in vitro psoriasis modeli olarak HaCaT keratinositleri üzerindeki etkilerinin

incelenmesi, 2022 - Continues

Tunca Gedik S., TUBITAK Project, *Streptomyces coelicolor*'da Yüksek Antibiyotik Üretiminin Lon Proteaz'la İlişkisi, 2019 - 2021

Tunca Gedik S., TUBITAK Project, *Bacillus thuringiensis*'in Biyoinsektisid (Endotoksin) Üretme Kapasitesinin Arttırılması Amacıyla Fosfat Metabolizmasının Deęiştirilmesi, 2008 - 2010

## **Metrics**

Publication: 13

Citation (WoS): 2

Citation (Scopus): 3

H-Index (WoS): 1

H-Index (Scopus): 1