

## Res. Asst. Semra TAŞDURMAZLI

### Personal Information

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### International Researcher IDs

ScholarID: qd3cywwAAAAJ

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### Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Molecular Biology And Genetics, Turkey  
2022 - Continues

Undergraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Molecular Biology And Genetics,  
Turkey 2017 - 2021

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Health&Medicine, Deneysel Arařtırmalarda Hayvan Kullanım Sertifikası-Kategori A , Acıbadem Mehmet Ali Aydınlar  
Üniversitesi Hayvan Deneyleri Yerel Etik Kurulu, 2023

### Research Areas

Microbial Biotechnology, Virology, Microbial Genetics

### Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Molecular Biology And Genetics,  
2024 - Continues

Researcher, Universidade de Minho, Center of Biological Engineering , Bacteriophage Biotechnology Group, 2023 - 2023

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

- Exploring in vitro efficacy of rCHAPk with antibiotic combinations, and promising findings of its therapeutic potential for clinical-originated MRSA wound infection**  
TAŞDURMAZLI S., Cinar I., Karamese M., Aksak Karamese S., ÇADIRCI E., Melo L. D., ÖZBEK T.

International Journal of Biological Macromolecules, vol.296, 2025 (SCI-Expanded)

**II. Polycationic nanoparticle-integrated inherently antibacterial cryogels**

Daaboul M., Akgul B., Taşdurmazlı S., Abamor E. S., Ozbek T., Ozmen M. M., Topuzogullari M.  
Materials Letters, vol.368, 2024 (SCI-Expanded)

**III. Evaluation of Bacteriophage  $\phi$ 11 host recognition protein and its host-binding peptides for diagnosing/targeting of Staphylococcus aureus infections**

Dokuz S., Taşdurmazlı S., Acar T., Duran G. N., Özdemir Ç., Özbey U., Özbil M., Karadayı Ş., Bayrak Ö. F., Acar S., et al.  
INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS, vol.64, no.2, 2024 (SCI-Expanded)

**IV. Tannic Acid Incorporated Antibacterial Polyethylene Glycol-Based Hydrogel Sponges for Management of Wound Infections**

Akin B., Akgul B., Tasdurmazli S., Abamor E. S., Ozbek T., Ozcelik B., Su E., Ozmen M. M.  
MACROMOLECULAR BIOSCIENCE, vol.0, no.ni, 2024 (SCI-Expanded)

**V. Host-Guest Interactions of Caffeic Acid Phenethyl Ester with  $\beta$ -Cyclodextrins: Preparation, Characterization, and In Vitro Antioxidant and Antibacterial Activity**

Acar T., PELİT ARAYICI P., Ucar B., Coksu I., TAŞDURMAZLI S., ÖZBEK T., DERMAN S.  
ACS Omega, vol.9, no.3, pp.3625-3634, 2024 (SCI-Expanded)

**VI. The Evaluation of Biotechnological Potential of Gp144, the Key Molecule of Natural Predator Bacteriophage K in Staphylococcus aureus Hunting Mechanism.**

Tasdurmazli S., Dokuz S., Erdogdu B., Var I., Chen J. Y., Ozbek T.  
Biotechnology journal, vol.18, 2023 (SCI-Expanded)

## Supported Projects

Özbek T., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), İşaretili rekombinant faj reseptör bağlanma proteini ile MRSA kaynaklı miyozit enfeksiyonunun in vivo tespiti ve fagoterapik yaklaşım ile tedavisi , 2023 - 2025

Özbek T., TUBITAK Project, Litik Bakteriyofaj K'nın, S. aureus Lizis Mekanizmasındaki Kilit Molekülü Holin Proteininin Biyoteknolojik Araç Olarak Kullanımının Değerlendirilmesi, 2022 - 2025

Taşdurmazlı S., Özbek T., Project Supported by Higher Education Institutions, E. coli enfeksiyonlarına karşı fagoterapi veya biyokontrol için faj preparatının geliştirilmesi, 2022 - 2024

Özbek T., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), COVID-19 Aşısında Kullanılmak Üzere Türkiye'nin Antijenik Peptid/Protein Kütüphanelerinin Oluşturulması, Spesifik Antijenik Peptid/Proteinlerin Üretimi ve Aşı Formülasyonları Olarak İmmun Yanıt Sonuçlarının Eldesi, 2020 - 2021

Taşdurmazlı S., Özbek T., TUBITAK Project, Bakteriyofaj K Reseptör Bağlayıcı Protein Gp144 Geninin Klonlanması , 2019 - 2020

## Mobility Activity

Research Scholarship Program, Scientific Research, Universidade de Minho, Portugal, 2023 - 2023

## Metrics

Publication: 6

Citation (Scopus): 7

H-Index (Scopus): 2

## Scholarships

TÜBİTAK 2211-A Genel Yurt İçi Doktora Burs Programı, TÜBİTAK, 2022 - Continues

CA21145 EURESTOP – STSMs call in Grant Period 1 (GP1), Other International Organizations, 2023 - 2023