

## Asst. Prof. FATMA NESLİHAN ÖZDEMİR

### Personal Information

Office Phone: [+90 312 202 1362](tel:+903122021362)

Email: [fatmaneslihanozdemir@gazi.edu.tr](mailto:fatmaneslihanozdemir@gazi.edu.tr)

Web: <https://avesis.gazi.edu.tr/fatmaneslihanozdemir>

### International Researcher IDs

ScholarID: 4NRBvGUAAAAJ

ORCID: 0000-0003-4910-5156

Publons / Web Of Science ResearcherID: KDM-6691-2024

Yoksis Researcher ID: 406314

### Education Information

Post Doctorate, Middle East Technical University, Faculty Of Engineering, Department Of Food Engineering, Turkey 2020 - 2021

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Biology, Turkey 2013 - 2017

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Biology, Turkey 2010 - 2012

Postgraduate, Gazi University, Gazi Eğitim Fakültesi, Biology Education, Turkey 2008 - 2009

Undergraduate, Kirikkale University, Faculty of Arts and Sciences, Biology, Turkey 2004 - 2008

### Certificates, Courses and Trainings

Renewable Energy Sources, ISO 14064-1 2018 Kurumsal Karbon Ayak İzi Hesaplama ve Raporlama Eğitimi, Ankara Kalkınma Ajansı, 2022

Other, Türkiye'nin Üst Düzey Biyokütle Uzmanları Teknik Eğitimi, TAGEM (Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü) - OSTİM Renewable Energy and Environmental Technologies Cluster, 2021

Other, Deney Hayvanları Kullanım Sertifikası, Ankara Üniversitesi Veterinerlik Fakültesi, 2013

### Dissertations

Doctorate, Salmonella'da biyofilm oluşumunun engellenmesi ve salmonella biyofilmlerinin eradikasyonunda etkin stratejilerin belirlenmesi, Ankara University, Fen Bilimleri Enstitüsü, 2017

Postgraduate, Gıda kaynaklı Enterococcus faecalis ve Enterococcus faecium suşlarında virülans faktörlerin belirlenmesi, Ankara University, Fen Bilimleri Enstitüsü, 2012

### Research Areas

Biotechnology, Environmental Biology, Microbiology, Molecular Biology and Genetics

### Academic Titles / Tasks

Assistant Professor, Gazi University, Fen Fakültesi, Biyoloji, 2024 - Continues

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

- I. **Climate change and food safety: Temperature impact on the attachment of *Escherichia coli* pathogroups on cress leaf**  
Samut H., Namli S., Ozdemir F. N., ÇÖMLEKÇİOĞLU N., SOYER KÜÇÜKŞENEL Y.  
JOURNAL OF FOOD SAFETY, vol.43, no.5, 2023 (SCI-Expanded)
- II. **Determination of an effective agent combination using nisin against *Salmonella* biofilm**  
Ozdemir F. N., Buzrul S., Ozdemir C., AKÇELİK N., AKÇELİK M.  
ARCHIVES OF MICROBIOLOGY, vol.204, no.3, 2022 (SCI-Expanded)
- III. **The role of *bcsE* gene in the pathogenicity of *Salmonella***  
Ozdemir C., AKÇELİK N., Ozdemir F. N., Evcili I., Kahraman T., Gursel I., AKÇELİK M.  
PATHOGENS AND DISEASE, vol.79, no.6, 2021 (SCI-Expanded)
- IV. **The effect of polyacid on the physical and biological properties of chitosan based layer-by-layer films**  
Saracogullari N., GÜNDOĞDU D., Ozdemir F. N., SOYER KÜÇÜKŞENEL Y., Erel-Goktepe I.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.617, 2021 (SCI-Expanded)
- V. **Inhibition and eradication of *Salmonella* Typhimurium biofilm using P22 bacteriophage, EDTA and nisin**  
Yuksel F. N., Buzrul S., AKÇELİK M., AKÇELİK N.  
BIOFOULING, vol.34, no.9, pp.1046-1054, 2018 (SCI-Expanded)
- VI. **Effects of *dam* and *seqA* genes on biofilm and pellicle formation in *Salmonella***  
Ugur S., AKÇELİK N., Yuksel F. N., Karatug N. T., AKÇELİK M.  
PATHOGENS AND GLOBAL HEALTH, vol.112, no.7, pp.368-377, 2018 (SCI-Expanded)
- VII. **Genetic diversity of food originated *Salmonella* isolates**  
Karatug N. T., Yuksel F. N., AKÇELİK N., AKÇELİK M.  
BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT, vol.32, no.3, pp.638-645, 2018 (SCI-Expanded)
- VIII. **DOES SUBINHIBITORY CONCENTRATIONS OF CLINICALLY IMPORTANT ANTIBIOTIC INDUCE BIOFILM PRODUCTION OF *ENTEROCOCCUS FAECIUM* STRAINS?**  
Yuksel F. N., Karatug N. T., AKÇELİK M.  
ACTA MICROBIOLOGICA ET IMMUNOLOGICA HUNGARICA, vol.65, no.1, pp.27-38, 2018 (SCI-Expanded)
- IX. **Effects of sub-MIC antibiotic concentrations on biofilm production of *Salmonella* Infantis**  
UYMAZ TEZEL B., AKÇELİK N., Yuksel F. N., Karatug N. T., AKÇELİK M.  
BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT, vol.30, no.6, pp.1184-1191, 2016 (SCI-Expanded)
- X. **Incidence of antibiotic resistance and virulence determinants in *Enterococcus faecium* and *Enterococcus faecalis* strains, isolated from traditional cheeses in Turkey**  
YÜKSEL N., AKÇELİK N., AKÇELİK M.  
MOLECULAR GENETICS MICROBIOLOGY AND VIROLOGY, vol.30, no.4, pp.206-215, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Mikrobiyal biyosüpfektanlar: yüzey aktif bileşikler**  
ÖZDEMİR F. N., AKÇELİK M.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.31, no.3, pp.1-9, 2015 (Peer-Reviewed Journal)
- II. **The interactions between *esp*, *fsr*, *gelE* genes and biofilm formation and pfge analysis of clinical *Enterococcus faecium* strains**  
DİANİ M., GÜNAY EŞİYOK Ö., ARIAFAR M. N., ÖZDEMİR F. N., GÜNEŞ ALTUNTAŞ E., AKÇELİK N.  
AFRICAN JOURNAL OF MICROBIOLOGY RESEARCH, vol.8, 2014 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Evaluation of Cellulase Activity of bcsE Mutant Salmonella Strains.**  
ÖZDEMİR C., ÖZDEMİR F. N., AKÇELİK N., AKÇELİK M.  
IV. INTERNATIONAL AGRICULTURAL, BIOLOGICAL & LIFE SCIENCE CONFERENCE AGBIOL 2022, Edirne, Turkey, 29 - 31 August 2022
- II. **Biofilm Reactor Design and Optimization of Biofilm Diagnostic Test Method on Implant Surface.**  
ÖZDEMİR F. N., ÖZDEMİR C., AKÇELİK N., AKÇELİK M.  
III. INTERNATIONAL AGRICULTURAL, BIOLOGICAL & LIFE SCIENCE CONFERENCE AGBIOL 2021, Edirne, Turkey, 1 - 03 September 2021
- III. **INVESTIGATION OF THE EFFECTS OF DAM AND SEQA GENES ON BIOFILM FORMATION IN SALMONELLA WITH PLASMID COMPLEMENTATION TEST**  
ÖZDEMİR C., ÖZDEMİR F. N., HAS E. G., KEÇELİ S., AKÇELİK M., AKÇELİK N.  
II. INTERNATIONAL AGRICULTURAL, BIOLOGICAL & LIFE SCIENCE CONFERENCE, Edirne, Turkey, 1 - 03 September 2020
- IV. **Biofilm producing capacities of Salmonella enterica Serovars and their dam and seqA mutants.**  
UĞUR S., ÖZDEMİR F. N., TAŞKALE KARATUĞ N., AKÇELİK N., AKÇELİK M.  
International Conference on Food Science and Technology, Rome, Italy, 13 - 15 November 2017
- V. **Anti-biofilm potential effect of Lactococcus lactis CNM81 strain isolated from raw milk on Salmonella Typhimurium SL1344 biofilm**  
TAŞKALE KARATUĞ N., ÖZDEMİR F. N., ÖZDEMİR C., GÜRCAN C., UĞUR S., ÇELİK Ç. E., AKÇELİK M.  
ECCMID 27nd European Congress of Clinical Microbiology and Infectious Diseases, Vienna, Austria, 22 - 25 April 2017
- VI. **Does sub-inhibitory concentrations of clinically important antibiotics induce biofilm production of Enterococcus faecium strain?**  
TAŞKALE KARATUĞ N., ÖZDEMİR F. N., ÖZDEMİR C., AKÇELİK N., AKÇELİK M.  
International Conference on Biological Sciences, Konya, Turkey, 21 - 23 October 2016
- VII. **Effects of Sub-Mic Antibiotic Concentrations on Biofilm Production of Food Originated Salmonella Infantis Strains.**  
UYMAZ TEZEL B., AKÇELİK N., ÖZDEMİR F. N., TAŞKALE KARATUĞ N., ŞANLIBABA P., AKÇELİK M.  
25th International ICFMH Conference - FoodMicro 2016, Dublin, Ireland, 19 - 22 July 2016
- VIII. **The Effect of Certain Disinfectants on Biofilm Producer E. faecalis Isolates.**  
ABAY İ., AKÇELİK N., ARIAFAR M. N., ÖZDEMİR F. N.  
25th International ICFMH Conference - FoodMicro 2016, Dublin, Ireland, 19 - 22 July 2016
- IX. **Determination the efficiency of Nisin against Salmonella enterica serovar Typhimurium SL1344**  
ÖZDEMİR F. N., TAŞKALE KARATUĞ N., AKÇELİK N., AKÇELİK M.  
ECCMID 26nd European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands, 9 - 12 April 2016
- X. **More powerful Salmonella biofilms: a new scenario directed by the subinhibitory antibiotic concentrations?**  
KARACA B., ÖZDEMİR C., ÖZDEMİR F. N., AKÇELİK M.  
ECCMID 25nd European Congress of Clinical Microbiology and Infectious Diseases, Copenhagen, Denmark, 25 - 28 April 2015
- XI. **Genetic Nature of Plasmids Derived from Multiple Drug Resistant Salmonella Strains**  
TAŞKALE KARATUĞ N., ÖZDEMİR F. N., BUYER B., AKÇELİK M., AKÇELİK N.  
3rd International Molecular Biology and Biotechnology Congress, Sarajevo, Bosnia And Herzegovina, 2 - 06 June 2014
- XII. **Comparison of PCR-RFLP and PFGE for determining the genetic diversity of Salmonella isolates.**  
ÖZDEMİR F. N., TAŞKALE KARATUĞ N., KARACA B., AKÇELİK N., AKÇELİK M.  
3rd International Molecular Biology and Biotechnology Congress, Sarajevo, Bosnia And Herzegovina, 02 June 2014
- XIII. **Determination of genetic diversity among vancomycin-resistant Enterococcus faecium isolates by**

**pulsed-field gel electrophoresis (PFGE) and identification of virulence genes by polymerase chain reactions (PCR)**

GÜNAY EŞİYOK Ö., ÖZDEMİR F. N., DİANİ M., ARIAFAR M. N., AKÇELİK N.

ECCMID 24nd European Congress of Clinical Microbiology and Infectious Diseases, Barcelona, Spain, 10 - 13 May 2014

**XIV. The efficacy of P22 bacteriophage as a method of Salmonella Typhimurium biofilm eradication.**

KARACA B., AKÇELİK M., TAŞKALE KARATUĞ N., ÖZDEMİR F. N.

ECCMID 23 rd European Congress of Clinical Microbiology and Infectious Diseases, Berlin, Germany, 27 - 30 April 2013

**XV. Difference in biofilm-forming abilities among faecal, urine and blood enterococcal isolates of human origin**

DİANİ M., GÜNAY EŞİYOK Ö., ARIAFAR M. N., ÖZDEMİR F. N., BUYER B., GÜNEŞ ALTUNTAŞ E., AKÇELİK N.

ECCMID 23rd Euroean Congress of Clinical Microbiology and Indectious Diseases, Berlin, Germany, 27 - 30 April 2013

**XVI. Biofilm Producing Ability of Salmonella Typhimurium BK4, isolated from Turkey**

KARACA B., ÖZDEMİR F. N., GÜNAY EŞİYOK Ö., DİANİ M., ARIAFAR M. N., YAVAŞ B., AKÇELİK N., AKÇELİK M.

ECCMID 22nd European Congress of Clinical Microbiology and Infectious Diseases, London, Canada, 31 March - 03 April 2012

## **Metrics**

Publication: 28

Citation (WoS): 83

Citation (Scopus): 87

H-Index (WoS): 6

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