

## Asst. Prof. MUSTAFA AY

### Personal Information

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### Education Information

Doctorate, Çanakkale Onsekiz Mart University, Mekanik Ve Makine Elemanları, Moleküler Biyoloji Ve Genetik Anabilimdalı, Turkey 2001 - 2008

Postgraduate, Çanakkale Onsekiz Mart University, Mekanik Ve Makine Elemanları, Biyoloji Anabilimdalı, Turkey 1998 - 2001

Undergraduate, Çanakkale Onsekiz Mart University, Fen Fakültesi, Biyoloji Bölümü, Turkey 1994 - 1998

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Venöz Tromboli Hastalarında Faktör VIII Gen Bölgesinin Moleküler Analizi , İstanbul University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji Ve Genetik Anabilimdalı, 2008

Postgraduate, Akut Miyokard Enfarktüs Geçiren Kişilerde Apolipoprotein E Polimorfizmi ile Chlamydia pneumoniae Taşıyıcılığı Arasındaki Korelasyonun Belirlenmesi , Çanakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Biyoloji Anabilimdalı, 2001

### Research Areas

Life Sciences, Molecular Biology and Genetics, Genetic Disorders, Genetic Engineering, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Çanakkale Onsekiz Mart University, Çanakkale Uygulamalı Bilimler Yüksekokulu, Gıda Teknolojisi, 2017 - 2018

Research Assistant PhD, Çanakkale Onsekiz Mart University, Mekanik Ve Makine Elemanları, Biyoloji Anabilimdalı, 2013 - 2017

Research Assistant PhD, Çanakkale Onsekiz Mart University, Fen Fakültesi, Biyoloji Bölümü, 2008 - 2013

Research Assistant, İstanbul University, Faculty Of Science, Moleküler Biyoloji Ve Genetik Bölümü, 2001 - 2008

Research Assistant, Çanakkale Onsekiz Mart University, Fen Fakültesi, Biyoloji Bölümü, 1999 - 2001

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

- I. **Antibiotic resistance and virulence genes in Enterococcus species isolated from raw and processed seafood**  
ÇARDAK M., ÖZMEN TOĞAY S., AY M., Karaalioglu O., EROL TINAZTEPE Ö., BAĞCI U.  
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, vol.59, no.7, pp.2884-2893, 2022 (SCI-Expanded)
- II. **Effects of spontaneous fermentation on Karalahna and Cabernet Sauvignon young red wines: volatile compounds, sensory profiles and identification of autochthonous yeasts**  
Çelebi Uzkuç N. M. , Sisli B., Ay M., Özmen Toğay S., Yüceer Y., Bayhan A., Kirca Toklucu A.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.246, no.1, pp.81-92, 2020 (SCI-Expanded)
- III. **Probiotic characteristics of bacteriocin-producing Enterococcus faecium strains isolated from human milk and colostrum**  
BAĞCI U., ÖZMEN TOĞAY S., Temiz A., AY M.  
FOLIA MICROBIOLOGICA, vol.64, no.6, pp.735-750, 2019 (SCI-Expanded)
- IV. **Nuclear and Mitochondrial DNA of Age-Related Cataract Patients Are Susceptible to Oxidative Damage**  
Tinaztepe O. E. , AY M., ESER E.  
CURRENT EYE RESEARCH, vol.42, no.4, pp.583-588, 2017 (SCI-Expanded)
- V. **Investigation of antimicrobial activity and entA and entB genes in Enterococcus faecium and Enterococcus faecalis strains isolated from naturally fermented Turkish white cheeses**  
ÖZMEN TOĞAY S., AY M., GÜNEŞER O., YÜCEER Y.  
FOOD SCIENCE AND BIOTECHNOLOGY, vol.25, no.6, pp.1633-1637, 2016 (SCI-Expanded)
- VI. **Antimicrobial Activity Potential of Enterococcus spp. Isolated from some Traditional Turkish Cheeses**  
ÖZMEN TOĞAY S., AY M., SANDIKÇI ALTUNATMAZ S., Yılmaz Aksu F., EROL TINAZTEPE Ö., Issa G., BÜYÜKÜNAL S. K.  
KAFKAS UNIVERSİTESİ VETERİNER FAKULTESİ DERGİSİ, vol.22, no.5, pp.765-770, 2016 (SCI-Expanded)
- VII. **Distribution of antibiotic resistance and the presence of vancomycin-resistance genes (vanA and vanB) in Enterobacteriaceae isolated from the Sea of Marmara, the Canakkale Strait and the Istanbul Strait, Turkey**  
ÇARDAK M., Altuğ G., AY M., EROL TINAZTEPE Ö.  
OCEANOLOGICAL AND HYDROBIOLOGICAL STUDIES, vol.45, no.2, pp.182-190, 2016 (SCI-Expanded)
- VIII. **Investigation of The Distribution of Antibiotic Resistance And The Presence of Vancomycin-Resistance Genes (vanA and vanB) in Enterobacteriaceae Isolated From The Sea of Marmara, Canakkale Strait And Istanbul Strait, Turkey**  
ÇARDAK M., ALTUĞ G., AY M., EROL Ö.  
OCEANOLOGICAL AND HYDROBIOLOGICAL STUDIES, vol.45, pp.5-10, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Nikelce Zengin Topraklardan (Ezine-Çanakkale) İzole Edilen Bakterilerin Bitki Büyüme Teşvik Edici Potansiyellerinin Belirlenmesi**  
Karakaş İ., Ay M., Öztürk F., Kaya S., Hacıoğlu Doğru N.  
Türk Tarım ve Doğa Bilimleri Dergisi, vol.9, no.2, pp.424-431, 2022 (Peer-Reviewed Journal)
- II. **Jeotermal Akışkanın Hidrokimyasal Karakterizasyonunun Belirlenmesi: Simav (Kütahya) Örneği**  
ÇARDAK M., ŞANLIYÜKSEL YÜCEL D., AY M., SÖKÜT AÇAR T., EROL TINAZTEPE Ö.  
ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.5, no.1, pp.1-15, 2019 (Peer-Reviewed Journal)
- III. **Evaluation of some food safety-related characteristics of Enterococcus faecium and Enterococcus faecalis strains isolated from raw fish samples**  
Karaalioglu O., ÖZMEN TOĞAY S., AY M., soysal g., ÇARDAK M., BAĞCI U., EROL Ö.  
Turkish Bulletin of Hygiene and Experimental Biology, vol.76, no.3, pp.341-352, 2019 (Scopus)

- IV. **Çiğ balık örneklerinden izole edilen Enterococcus faecium ve Enterococcus faecalis suşlarının gıda güvenliği yönünden bazı özelliklerinin değerlendirilmesi.**  
KARAALIOĞLU O., ÖZMEN TOĞAY S., AY M., SOYSAL G., ÇARDAK M., BAĞCI U., EROL Ö.  
Türk Hijyen ve Deneysel Biyoloji Dergisi, vol.76, no.3, pp.341-352, 2019 (Scopus)
- V. **The Effect of Apolipoprotein E Polymorphism on PlasmaLipoprotein-Lipid Levels in Cardiovascular Disease**  
AY M., EROL Ö., ERDEM G.  
Journal of Molecular Biology and Genetics, vol.2, pp.60-64, 2017 (Peer-Reviewed Journal)
- VI. **Chlamydia pneumoniae and acute myocardial infarction.**  
AY M.  
Journal of Turkish Microbiological Society, vol.33, no.2, pp.134-136, 2003 (Peer-Reviewed Journal)
- VII. **Akut miyokard enfarktüs için iki olası risk faktörü: Chlamydia pneumoniae taşıyıcılığı ve apolipoprotein E polimorfizm**  
AY M.  
İNFEKSİYON DERGİSİ, vol.17, no.2, pp.115-0, 2003 (Peer-Reviewed Journal)
- VIII. **Akut miyokard enfarktüs ve Chlamydia pneumoniae.**  
AY M.  
KLİNİK LABORATUVAR ARAŞTIRMA DERG., vol.6, no.1, pp.21-24, 2002 (Peer-Reviewed Journal)

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

- I. **Indigenous Non-Saccharomyces Yeast Diversity During Spontaneous Fermentation of 'Karahna' and 'Cabernet Sauvignon' Grapes"**  
Çelebi Uzkuç N. M. , Özmen Toğay S., Ay M., Bayhan A., Kirca Toklucu A.  
The 35th International Spacialised Symposium on Yeast., Antalya, Turkey, 21 - 25 October 2019, pp.128
- II. **Indigenous Non-Saccharomyces Yeast Diversity During Spontaneous Fermentation of 'Karahna' and 'Cabernet Sauvignon' Grapes**  
ÇELEBİ UZKUÇ N. M. , ÖZMEN TOĞAY S., AY M., Bayhan A., KIRCA TOKLUCU A.  
35th International Specialised Symposium on Yeasts, Antalya, Turkey, 21 - 25 October 2019, pp.129
- III. **Tek sağlık yönüyle enterokoklar: Dost mu? Düşman mı?**  
ÖZMEN TOĞAY S., ÇARDAK M., AY M., BAĞCI U.  
I. Ulusal Tek Sağlık Sempozyumu, Turkey, 21 - 23 November 2018
- IV. **Investigation of Heavy Metal Resistance in Enterococcal Strains from Raw and Processed Seafood**  
ÇARDAK M., AY M., ÖZMEN TOĞAY S.  
5th International Vet-İstanbul Group Congress 8th International Scientific Meeting Days of Veterinary Medicine, 23 - 27 September 2018
- V. **Antibiotic Susceptibility and Some Virulence Genes of Enterococcus faecalis and E. faecium Strains Isolated from Raw Fish Samples.**  
KARAALIOĞLU O., ÖZMEN TOĞAY S., AY M., ÇARDAK M.  
1st International Food and Medicine Congress., 24 - 27 May 2018
- VI. **PREVALENCE AND ANTIBIOTIC RESISTANCE AND VIRULENCE CHARACTERISTICS OF ENTEROCOCCI IN RAW AND PROCESSED SEAFOOD PRODUCTS**  
ÇARDAK M., AY M., ÖZMEN TOĞAY S., Aydın E., EROL Ö., Karaalioğlu O., BAĞCI U., YILDIRIM Z.  
10th Balkan Congress of Microbiology, Sofya, Bulgaria, 16 - 18 November 2017, pp.320
- VII. **Prevalence and Antibiotic Resistance and Virulence Characteristics of Enterococci in Raw and Processed Seafood Products**  
ÇARDAK M., AY M., Özmen Togay S., Aydın E., EROL TINAZTEPE Ö.  
10th Balkan Congress of Microbiology, Sofya, Bulgaria, 16 - 18 November 2017, vol.1, pp.320-302
- VIII. **Antimicrobial Activity Potential of Enterococcus Strains Isolated From Seafood Samples**  
BAĞCI U., ÇARDAK M., ÖZMEN TOĞAY S., Aydın E., KARAALIOĞLU O., AY M., EROL Ö., YILDIRIM Z.

7. Veterinary Food Hygiene Congress, 4 - 08 October 2017

- IX. **Real Time PCR Kit for Detection of Potential Food Allergen and GMO Soy Bean in Foods**  
AY M., ÖZMEN TOĞAY S., EROL Ö., ÇARDAK M.  
5th International Food RD Brokerage Event, 25 May 2017
- X. **Gıdalarda Potansiyel Gıda Alerjeni ve GDO'lu Soyanın Belirlenmesi Amacıyla Real Time PCR Tanı Kiti**  
AY M., Özmen Togay S., EROL TINAZTEPE Ö., ÇARDAK M.  
V. Gıda Ar-Ge Proje Pazarı, İzmir, Turkey, 25 May 2017, pp.12-13
- XI. **DNA BARCODING IN PROCESSED SEAFOOD**  
ÇARDAK M., AY M., ÖZMEN TOĞAY S., EROL Ö., ORMANCI H. B.  
5th International Food RD Brokerage Event, 25 May 2017
- XII. **İşlenmiş Su Ürünlerine DNA Barkod Etiketi**  
ÇARDAK M., AY M., Özmen Togay S., EROL TINAZTEPE Ö., ORMANCI H. B.  
V. Gıda Ar-Ge Proje Pazarı, İzmir, Turkey, 23 - 24 May 2017, pp.10-11
- XIII. **Investigation of Enterocin Encoding enta and entb Genes in Enterococci Strains Isolated from Some Traditional Turkish Cheeses**  
AY M., EROL Ö., ÖZMEN TOĞAY S., AKSU F.  
The 3rd International Symposium on "Traditional Food from Adriatic to Caucasus", Saraybosna, Bosnia And Herzegovina, 01 October 2015 - 04 October 2014
- XIV. **Investigation of Vancomycin Resistance Genes vanA vanB and Antibiotic Resistance of Enterobacteriaceae Strains Isolated from Sea of Marmara Çanakkale Strait and Istanbul Strait**  
ÇARDAK M., AY M., EROL Ö.  
International Symposium on Fisheries and Aquatic Sciences:FABA 2014, 25 - 27 September 2014
- XV. **The Prevalence Of Hypertension And Coronary Heart Disease Among Elderly People With Mediterranean Type Nutritional Habits Int J Health Nutr**  
EROL Ö., HIZ M. M. , AY M.  
The International 2nd Halal and Healthy Food Congress, Turkey, 7 - 10 November 2013, vol.4, pp.61
- XVI. **Evaluating Dietary Pattern in Çanakkale and Investigation The Compliance with Mediterranean Diet.**  
HIZ M. M. , EROL Ö., AY M.  
International 2 Halal and Healty Food Congress, Konya, Turkey, 7 - 10 November 2013
- XVII. **The Prevelance of Hypertension and Coronary Heart Disease Among Elderley People with Mediterranean Type Nutritional Habits.**  
EROL Ö., HIZ M. M. , AY M.  
International 2 Halal and Healty Food Congress, Konya, Turkey, 7 - 10 November 2013
- XVIII. **Evaluating Dietary Pattern In Çanakkale And Investigation The Compliance With Mediterranean Diet PP47 Int J Health Nutr**  
HIZ M. M. , EROL Ö., AY M.  
The International 2nd Halal and Healthy Food Congress, Konya, Turkey, 7 - 10 November 2013, vol.4, pp.61-62
- XIX. **The Prevalence Of Hypertension And Coronary Heart Disease Among Elderly People With Mediterranean Type Nutritional Habits,**  
Erol Ö., HIZ M. M. , Ay M.  
he International 2nd Halal and Healthy Food Congress, Int J Health Nutr , KONYA, TÜRKIYE,, Konya, Turkey, 7 - 10 November 2013, vol.4, no.3, pp.61
- XX. **Effects of Olive Oil Phenolics on H2O2-Induced Mitochondrial and Nuclear DNA Damage in Human Lymphocytes.**  
EROL Ö., AY M., ÖZMEN TOĞAY S.  
The 2nd International Symposium on Traditional Foods from Adriatic to Caucasus, Struga, Macedonia, 24 - 26 October 2013
- XXI. **Investigation of Bacteriocin Encoding Genes in Enterococcus faecium and Enterococcus faecalis Isolated from Traditional Turkish Suasages.**  
ÖZMEN TOĞAY S., AY M., EROL Ö.  
The 2nd International Symposium on Traditional Foods from Adriatic to Caucasus, Struga, Macedonia, 24 - 26

October 2013

**XXII. Species Specific polymerase Chain Reaction (PCR) Kit For identification of Pig Meat.**

ÖZMEN TOĞAY S., AY M., EROL Ö.

II. International Food R&D Brookerage Event, İzmir, Turkey, 3 - 04 June 2013

**XXIII. Kids Also Like This Cheese.**

EROL Ö., ÖZMEN TOĞAY S., AY M.

II. International Food R&D Brookerage Event, İzmir, Turkey, 03 June 2013

## Supported Projects

Özmen Toğay S., Çardak M., Ay M., Erol Tınaztepe Ö., Bağcı U., TUBITAK Project, Çiğ ve İşlenmiş Su Ürünlerinden İzole Edilen Enterokokların Gıda Güvenliği ve Bakteriyosin Üretim Potansiyeli Yönüyle Değerlendirilmesi, 2016 - 2018  
ÇARDAK M., SÖKÜT AÇAR T., ŞANLIYÜKSEL D., KARACA Z., AY M., EROL Ö., Project Supported by Higher Education Institutions, Simav (Kütahya) Bölgesi jeotermal yüzey suyunda ve sedimentte ağır metal düzeyinin belirlenmesi ve izole edilen bakterilerde ağır metal dirençliliğinin araştırılması, 2014 - 2016

EROL TINAZTEPE Ö., AY M., HIZ M. M. , Project Supported by Higher Education Institutions, DNA Hasarı ve DNA Onarımının Yaşa Bağlı Katarakt Gelişimindeki Rolünün Araştırılması, 2011 - 2015

EROL TINAZTEPE Ö., AY M., Project Supported by Higher Education Institutions, Yaşa Bağlı Katarakt ile DNA Onarım Genindeki Tek Nükleotid Polimorfizmleri Arasındaki İlişkinin Araştırılması, 2011 - 2015

YÜCEER Y., AY M., Project Supported by Higher Education Institutions, Gıda Kaynaklı Enterococcus faecium ve Enterococcus faecalis İzolatlarının Patojenite Potansiyellerinin ve Bakteriyosin Oluşturma Özelliklerinin Araştırılması, 2011 - 2014

ERDEM G., AY M., Project Supported by Higher Education Institutions, Venöz Tromboz Hastalarında Faktör VIII Geninin Moleküler Analizi, 2006 - 2009

## Metrics

Publication: 48

Citation (WoS): 31

Citation (Scopus): 32

H-Index (WoS): 3

H-Index (Scopus): 3