

## **Res. Asst. PhD MİRAY ETYEMEZ**

### **Personal Information**

**Office Phone:** [+90 322 338 6074](tel:+903223386074)

**Email:** metyemez@cu.edu.tr

**Web:** <https://avesis.cu.edu.tr//metyemez>

**Address:** Çukurova Üniversitesi, Su Ürünleri Fakültesi, Yetiştiricilik Bölümü, Hastalıklar ABD 01250, Balcalı-Sarıçam/ADANA

### **Education**

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Turkey 2013 - 2019

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Turkey 2009 - 2011

Undergraduate Minor, Cukurova University, Fen Edebiyat Fakültesi, Biyoloji, Turkey 2008 - 2010

Undergraduate, Cukurova University, Su Ürünleri Fakültesi, Turkey 2005 - 2009

### **Foreign Languages**

English, B2 Upper Intermediate

### **Certificates, Courses and Trainings**

Other, DNA Barkodlama ve Temel Filogenetik Analiz, Akdeniz Su Ürünleri Araştırma Üretme ve Eğitim Enstitüsü Müdürlüğü, 2015

Education Management and Planning, Uygulamalı Temel Mikrobiyoloji Eğitim Kursu, Çukurova Üniversitesi Biyoteknoloji Araştırma ve Uygulama Merkezi, 2014

Education Management and Planning, Uygulamalı Real Time PCR Eğitimi, Biyoakademi, 2014

Health&Medicine, Deney Hayvanları Kullanım Sertifikası, Çukurova Üniversitesi, 2013

### **Dissertations**

Doctorate, Tilapia (Oreochromis niloticus, Linnaeus 1758) için Koruyucu Probiyotiklerin Eldesi: Büyüme Performansı ve Streptococcus iniae'ye Karşı Etkisinin Araştırılması, Cukurova University, Su Ürünleri Fakültesi, Su Ürünleri Yetiştiricilik A.B.D., 2019

Postgraduate, Farklı Dozlarda Gama İşnlamanın Soğukta Depolanan(2C)Kurbaga bacaklarının (Rana esculenta)Duyusal,Kimyasal ve Mikrobiyolojik Kalitesi Üzerine Etkileri , Cukurova University, Fen Bilimleri Enstitüsü, Avlama Ve İşleme Ana Bilim Dalı, 2011

### **Research Areas**

Agricultural Sciences, Seafood, Aquaculture, Aquatic Diseases

### **Academic Positions**

## Journal articles indexed in SCI, SSCI, and AHCI

- I. Effects of two host-associated probiotics *Bacillus mojavensis* B191 and *Bacillus subtilis* MRS11 on growth performance, intestinal morphology, expression of immune-related genes and disease resistance of Nile tilapia (*Oreochromis niloticus*) against *Streptococcus iniae*  
Etyemez M., Cengizler İ., Demirkale İ.  
DEVELOPMENTAL & COMPARATIVE IMMUNOLOGY, vol.138, pp.1-11, 2022 (SCI-Expanded)
- II. Gamma-irradiation induced effects on biogenic amine formation and quality of frog legs (*Rana esculenta*) during storage  
Buyukdeveci M., Boga E., ÖZYURT G.  
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.99, pp.379-386, 2019 (SCI-Expanded)
- III. Effects of garlic-supplemented diet on growth performance and intestinal microbiota of rainbow trout (*Oncorhynchus mykiss*)  
Buyukdeveci M., Balcazar J. L., DEMİRKALE İ., DİKEL S.  
AQUACULTURE, vol.486, pp.170-174, 2018 (SCI-Expanded)
- IV. Isolation and characterization of bacteria with antibacterial properties from Nile tilapia (*Oreochromis niloticus*)  
ETYEMEZ M., BALCAZAR J. L.  
RESEARCH IN VETERINARY SCIENCE, vol.105, pp.62-64, 2016 (SCI-Expanded)
- V. Changes of Fatty Acid Composition in Frog Legs (*Rana esculenta*) During Cold Storage Period:  
Irradiation Effect  
ÖZYURT G., ETYEMEZ M.  
JOURNAL OF AQUATIC FOOD PRODUCT TECHNOLOGY, vol.24, no.5, pp.481-489, 2015 (SCI-Expanded)
- VI. Bacterial community structure in the intestinal ecosystem of rainbow trout (*Oncorhynchus mykiss*) as revealed by pyrosequencing-based analysis of 16S rRNA genes  
Etyemez M., Luis Balcazar J.  
RESEARCH IN VETERINARY SCIENCE, vol.100, pp.8-11, 2015 (SCI-Expanded)
- VII. Parasitic copepods of the common sole, *Solea solea* (L.), from the Eastern Mediterranean coast of Turkey  
ÖZAK A. A., DEMİRKALE İ., BOXSHALL G. A., ETYEMEZ M.  
SYSTEMATIC PARASITOLOGY, vol.86, no.2, pp.173-185, 2013 (SCI-Expanded)
- VIII. Comparative seasonal sterol profiles in edible parts of Mediterranean fish and shellfish species  
ÖZYURT G., Kuley E., ETYEMEZ M., ÖZOĞUL F.  
INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION, vol.64, no.4, pp.476-483, 2013 (SCI-Expanded)
- IX. Fatty Acid Composition and Oxidative Stability of Fish Oil Products in Turkish Retail Market  
Ozyurt G., ŞİMŞEK A., ETYEMEZ M., Polat A.  
JOURNAL OF AQUATIC FOOD PRODUCT TECHNOLOGY, vol.22, no.3, pp.322-329, 2013 (SCI-Expanded)
- X. Effect of the Icing with Rosemary Extract on the Oxidative Stability and Biogenic Amine Formation in Sardine (*Sardinella aurita*) During Chilled Storage  
ÖZYURT G., Kuley E., BALIKÇI E., KAÇAR C., GÖKDÖĞAN S., ETYEMEZ M., ÖZOĞUL F.  
FOOD AND BIOPROCESS TECHNOLOGY, vol.5, no.7, pp.2777-2786, 2012 (SCI-Expanded)
- XI. Effect of the type of frying oil on volatile compounds of goatfish (*Upeneus pori*) during cold storage  
ÖZYURT G., Kafkas E., ETYEMEZ M.  
INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, vol.46, no.12, pp.2598-2602, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Kültür Gökkuşağı Alabalıklarında (*Oncorhynchus mykiss*) Tanımlanan Patojen Bakterilerin Antibiyotik Dirençliliğinin Belirlenmesi**  
ETYEMEZ BÜYÜKDEVECİ M., DEMİRKALE İ., KİLERCİOĞLU S.  
TURKISH JOURNAL OF MARITIME AND MARINE SCIENCES, 2024 (Peer-Reviewed Journal)
- II. **Comparison of the Aflatoxin levels in Fish Feeds from Rainbow Trout Farms Localized at Different Regions (Adana-Ağrı, TURKEY)**  
CENGİZLER İ., YAKAN S., DUMAN S., ETYEMEZ BÜYÜKDEVECİ M., ALDIK R.  
International Journal of Pure and Applied Sciences, vol.5, no.2, pp.78-84, 2019 (Peer-Reviewed Journal)
- III. **DETERMINATION OF PARASITIC TRANSMISSIONS BETWEEN JAPANESE FISH (*Carassius auratus*, GOLDFISH) AND FROGS (*Rana ridibunda*, *Rana viridis*)**  
CENGİZLER İ., yakan s., DUMAN S., Aldik R., ETYEMEZ M.  
Aquatic Research, vol.1, no.4, pp.140-147, 2018 (Peer-Reviewed Journal)
- IV. **Sectoral Approaches In Tourism and Aquaculture In Turkey**  
CENGİZLER İ., Aldik R., DUMAN S., ETYEMEZ M.  
Int'l Journal of Advances in Agricultural & Environmental Engg. (IJAAEE), vol.4, no.1, pp.78-79, 2017 (Peer-Reviewed Journal)
- V. **Nutritional and Physicochemical Characteristics of Bread Enriched with Microalgae Spirulina platensis**  
AK B., avşaroğlu e., IŞIK O., ÖZYURT G., YAŞA KAFKAS N. E., ETYEMEZ M., USLU L.  
International Journal of Engineering Research and Application, vol.6, no.12, pp.30-38, 2016 (Peer-Reviewed Journal)
- VI. **Oxidative stability and fatty acid profiles of fried goatfish during cold storage**  
ÖZYURT G., ŞİMŞEK A., ETYEMEZ M., ÖZOĞUL Y.  
Fleischwirtschaft International, vol.27, pp.58-62, 2012 (Peer-Reviewed Journal)

## Books

- I. **Yetiştiricilikte Probiyotik ve Prebiyotik Kullanımı**  
Etyemez M.  
in: sorular ile su ürünleri yetiştirciliği, Suat Dikel, İbrahim Demirkale, Editor, İksad Yayınevi, Ankara, pp.335-355, 2022

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. **SU ÜRÜNLERİ ALANINDA ORGANİK ASİTLERİN BALIK HASTALIKLARINA KARŞI ALTERNATİF KATKI MADDESİ OLARAK KULLANIMI**  
FAHİM A. W., DEMİRKALE İ., ETYEMEZ BÜYÜKDEVECİ M.  
4. INTERNATIONAL GÖBEKLİTEPE SCIENTIFIC RESEARCH CONGRESS, Şanlıurfa, Turkey, 7 - 08 October 2022, vol.1, pp.823-831, (Full Text)
- II. **The Importance of Probiotic Use of against to Fish Diseases(Balık Hastalıklarına Karşı Probiyotik Kullanımının Önemi)**  
DEMİRKALE İ., ETYEMEZ BÜYÜKDEVECİ M.  
International Science and Research Congress, ALTALYA, Turkey, 8 - 10 February 2019, pp.69-78, (Full Text)
- III. **Phenotypic Characteristics and Antibacterial Susceptibility Of *Micrococcus* sp. Strains in Some Rainbow Trout (*Oncorhynchus Mykiss*, Walbaum 1792) Facilitiesin Şanlıurfa(Şanlıurfa'da Bulunan Bazı Gökkuşağı Alabalığı (*Oncorhynchus Mykiss*, Walbaum 1792) İşletmelerinden İzole Edilen İki Farklı *Micrococcus* sp. Suşlarının Fenotipik Özellikleri ve Antibiyotik Duyarlılıklar)**

- DEMİRKALE İ., ETYEMEZ BÜYÜKDEVECİ M.  
International Science and Research Congress, Antalya, Turkey, 8 - 10 February 2019, pp.31-36, (Full Text)
- IV. BALIKLarda Sırkadıyen RİTİM VE PİNEAL ORGAN  
CENGİZLER İ., ETYEMEZ BÜYÜKDEVECİ M.  
INTERNATIONAL CONFERENCE OF STRATEGIC RESEARCH ONSCIENTIFIC STUDIES AND EDUCATION, Roma, Italy, 17 - 18 June 2019, pp.240-247, (Full Text)
- V. Bacillus subtilis ve Bacillus mojavensis Probiyotik Takviyesi İle Beslemenin Tilapia (*Oreochromis niloticus*, Linnaeus, 1758)'larda Büyüme Performansı Üzerine Etkisi  
CENGİZLER İ., ETYEMEZ BÜYÜKDEVECİ M.  
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018) October 24-26, 2018, Adana/Turkey, 24 - 26 October 2018, (Full Text)
- VI. INVESTIGATION OF AFLATOXIN IN FEEDS USED IN TWO RAINBOW TROUT OPERATIONS IN ADANA AND AGRI PROVINCES IN DIFFERENT CLIMATIC CONDITIONS  
CENGİZLER İ., DUMAN S., ŞAHAN A., ALDİK R., ETYEMEZ M.  
4th International Conference on Engineering and Natural Sciences (ICENS 2018), Kiev, Ukraine, 2 - 06 May 2018, pp.109, (Summary Text)
- VII. DETERMINATION OF PARASITIC TRANSMISSIONS BETWEEN JAPANESE FISH (CARASSIUS AURATUS, GOLDFISH) AND TOADS (RANA RIDIBUNDA, RANA VIRIDIS)  
CENGİZLER İ., DUMAN S., ETYEMEZ M., ALDİK R.  
4th International Conference on Engineering and Natural Sciences (ICENS 2018), Kiev, Ukraine, 2 - 06 May 2018, pp.110, (Summary Text)
- VIII. Molecular Methods for Rapid Diagnosis of Fish Diseases  
ETYEMEZ BÜYÜKDEVECİ M., DEMİRKALE İ., KIZILDIRIM S., CENGİZLER İ.  
6th International MOLECULAR BIOLOGYand BIOTECHNOLOGY CONGRESS(MOLBIOTECH), AFYON, Turkey, 22 - 25 December 2017, pp.85, (Summary Text)
- IX. Molecular Methods for Rapid Diagnosis of Fish Diseases  
ETYEMEZ BÜYÜKDEVECİ M., DEMİRKALE İ., KIZILYILDIRIM S., CENGİZLER İ.  
6th INTERNATIONAL MOLECULAR BIOLOGY and BIOTECHNOLOGY CONGRESS (MOLBIOTECH), Afyon, Turkey, 22 - 25 December 2017, (Summary Text)
- X. IMPACT OF LOW-DOSE GAMMA IRRADIATION THE MICROBIAL QUALITY OF FROG LEG (RANA ESCULENTA) DURING COLD STORAGE  
ETYEMEZ BÜYÜKDEVECİ M., ÖZYURT G., KULEY BOĞA E.  
6TH INTERNATIONAL MOLECULAR BIOLOGY AND BIOTECHNOLOGY CONGRESS, AFYON, Turkey, 22 - 25 December 2017, (Summary Text)
- XI. Occurrence of Antibiotic Resistance Genes in Candidate Probiotics Isolated from Intestine of Nile tilapia, *Oreochromis niloticus* L.  
ETYEMEZ BÜYÜKDEVECİ M., KIZILYILDIRIM S., CENGİZLER İ., KÖKSAL F.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, (Summary Text)
- XII. Occurrence of Antibiotic Resistance Genes in Candidate Probiotics Isolated from Intestine of Nile Tilapia *Oreochromis niloticus* L.  
ETYEMEZ BÜYÜKDEVECİ M., Kızılıyıldırım S., CENGİZLER İ., KÖKSAL F.  
2 nd International Mediterranean Science and Engineering Congress, Turkey, 25 - 27 October 2017, (Summary Text)
- XIII. CHANGES IN BACTERIAL COMMUNITY STRUCTURE IN THE INTESTINAL MICROBIOTA OF RAINBOW TROUT (*ONCORHYNCHUS MYKISS*), FED WITH GARLIC SUPPLEMENTED DIET BY NEXT-GENERATION SEQUENCING  
ETYEMEZ BÜYÜKDEVECİ M., DEMİRKALE İ., DİKEL S.  
ULUSLARARASI TİBBİ VE AROMATİK BİTKİLER KONGRESİ TABİİ VE SAĞLIKLI HAYAT, Konya, Turkey, 10 - 12 May 2017, (Summary Text)
- XIV. Sectoral Approaches to Tourism and Aquaculture in Turkey

- CENGİZLER İ., Aldık R., DUMAN S., ETYEMEZ M.  
7th International Conference on Chemical, Biological, and Environmental Sciences (ICCBES'17), Pattaya, Thailand, 8 - 09 February 2017, pp.216, (Full Text)
- XV. **Prevalence and Diversity of Antimicrobial Resistance Genes in Nile Tilapia (*Oreochromis niloticus*)**  
ETYEMEZ BÜYÜKDEVƏCİ M., CENGİZLER İ., KIZILYILDİRİM S., KÖKSAL F.  
6 th International Conference of Aquaculture Indonesia, Indonesia, 27 - 29 October 2016, (Summary Text)
- XVI. **Prevalence And Diversity Of Antimicrobial Resistance Genes İn Nile Tilapia (*Oreochromis niloticus*)**  
ETYEMEZ BÜYÜKDEVƏCİ M., CENGİZLER İ., KIZILYILDİRİM S., KÖKSAL F.  
ICAII 2016, Balvi, Latvia, 27 - 29 October 2016, (Summary Text)
- XVII. **Isolation of Lactic acid bacteria from the Intestine of nile Tilapia (*Oreochromis niloticus*) captured from farms and their local aquatic Environment**  
CENGİZLER İ., ETYEMEZ M., KÖKSAL F.  
5th International Conference on Agriculture, Environment and Biological Sciences (ICAEB-16), Pattaya, Thailand, 28 - 29 April 2016, pp.97, (Full Text)
- XVIII. **SCREENING OF PROBIOTIC BACTERIA FOR THE CONTROL OF *Streptococcus iniae* AND *Edwardsiella piscicida* IN TILAPIA *Oreochromis niloticus* Linneus 1758**  
ETYEMEZ M., CENGİZLER İ., TABAKOĞLU Ş.  
17th International Conference on Diseases of Fish and Shellfish, Las Palmas, Spain, 7 - 11 September 2015, pp.257
- XIX. **Investigation of parasites in some fish cultured in VI Regional Directorate of State Hydraulic Works Fisheries Head Engineering**  
TABAKOĞLU Ş., CENGİZLER İ., ETYEMEZ M.  
17th International Conference on Diseases of Fish and Shellfish, Las Palmas, Spain, 7 - 11 September 2015, pp.277
- XX. **Tilapia (*O.niloticus*)larda *Edwardsiella tarda* Türünün Türkiye'den İlk Bildirimi**  
ETYEMEZ BÜYÜKDEVƏCİ M., KIZILYILDİRİM S., DEMİRKALE İ., ALDIK R., CENGİZLER İ.  
İç Anadolu Bölgesi 2. Tarım ve Gıda Kongresi, Nevşehir, Turkey, 28 - 30 April 2015, (Full Text)
- XXI. **Tilapialarda *Edwardsiella tarda* türünün Türkiyeden ilk bildirimi**  
ETYEMEZ M., DEMİRKALE İ., CENGİZLER İ.  
2. İç Anadolu Bölgesi Tarım ve Gıda Kongresi, Nevşehir, Turkey, 28 - 30 April 2015, vol.1, no.1, pp.468, (Full Text)
- XXII. **Effects of Gamma Irradiation on the Biogenic Amines Formation in Frog (*Rana esculenta*) Legs during Cold Storage (+2°C).**  
ÖZYURT G., Ergüven M., ÖZKÜTÜK A. S., ETYEMEZ M.  
1 st International Symposium on Aquatic Sciences and Technology, Girne, Cyprus (Kktc), 15 - 17 May 2014, pp.74, (Full Text)
- XXIII. **Parasitic copepods of the commen sole(*solea solea*)from eastern mediterranean coast of turkey**  
ÖZAK A. A., DEMİRKALE İ., ETYEMEZ M.  
2. International Workshop on Symbiotic Copepoda, Cape Town, South Africa, 30 June - 05 July 2013, vol.1, no.1, pp.23, (Summary Text)
- XXIV. **Farklı dozlarda işinlanan tütsülenmiş vakum paketli gökkuşağı alabalığının (*Oncorhynchus mykiss*) soğuk depolanması (+2°C) süresince kimyasal, duyusal ve mikrobiyolojik kalite parametrelerinin değişimi.**  
ÖZKÜTÜK A. S., ETYEMEZ M., KÜLEY BOĞA E., ÖZYURT G.  
XVI. Ulusal Su Ürünleri Sempozyumu, Antalya, Turkey, 23 - 27 October 2011, pp.331, (Summary Text)
- XXV. **Effects of rosemary (*Rosmarinus officinalis*) extract addition on oxidative stability of fried sea bream (*Sparus aurata*) durig chill storage (4C)**  
ÖZYURT G., KARAKAYA B., ETYEMEZ M., AKSUN E. T.  
1st International Congress of Food Technology, Antalya, Turkey, 3 - 06 November 2010, pp.292, (Full Text)

## Other Publications

- I. **Effects of frying oil type on oxidative stability and fatty acid profiles of goatfish during cold storage**

## Funded Projects

DEMİRKALE İ., EVLİYAOĞLU E., DİKEL S., CENGİZLER İ., GÜLNAZ O., ETYEMEZ M., KÜÇÜKGÜLMEZ YANDIM A., KIZILYILDIRIM S., Project Supported by Higher Education Institutions, Farklı Bakteriyel Balık Patojenlerine Karşı Lignin'in Etkinliğinin Araştırılması, 2018 - Continues

ETYEMEZ M., CENGİZLER İ., BÜYÜKDEVECİ F., KIZILYILDIRIM S., DEMİRKALE İ., KİLERCİOĞLU S., Project Supported by Higher Education Institutions, Yetiştiriciliği Yapılan Gökkuşağı Alabalık (*Oncorhynchus mykiss*)'lardan İzole Edilen Patojen Bakterilerin Antibiyotik Direnç Profillerinin Belirlenmesi, 2019 - 2024

KİLERCİOĞLU S., SANGÜN L., DİKEL S., ATLI G., CENGİZLER İ., AYDIN F., ETYEMEZ M., Project Supported by Higher Education Institutions, Bor nanoparçacıklarının Nil Tilapyası (*Oreochromis niloticus*)'nın antioksidan enzim aktivitesi, gen ekspresyonu ve bağırsak mikrobiyotası üzerine etkilerinin belirlenmesi, 2019 - 2023

DİKEL S., ÖZŞAHİNOĞLU I., ÖZ M., DEMİRKALE İ., ETYEMEZ M., Project Supported by Higher Education Institutions, Farklı sazan türlerinin kafes ve tank koşullarında polikültür amaçlı yetiştirme olanaklarının incelenmesi, 2018 - 2019

CENGİZLER İ., DUMAN S., ETYEMEZ M., ALDIK R., Project Supported by Higher Education Institutions, Sectoral Approaches to Tourism and Aquaculture in Turkey, 2017 - 2017

DİKEL S., ÖZ M., DEMİRKALE İ., Yabacı F. S., ETYEMEZ M., Project Supported by Higher Education Institutions, Sarımsak (*Allium sativum*) Tozu Katkısı ile Beslenmiş Gökkuşağı Alabalıklarında Yeni Nesil DNA Dizileme Yöntemi Kullanılarak Barsak Florasındaki Değişimlerin Belirlenmesi, 2016 - 2017

CENGİZLER İ., ETYEMEZ M., KÖKSAL F., Kızılıyıldırım S., Project Supported by Higher Education Institutions, Isolation of Lactic Acid Bacteria from the Intestine of Nile Tilapia (*Oreochromis Niloticus*) Captured From Farms and Their Local Aquatic Environment, 2016 - 2016

CENGİZLER İ., YANEN R., DEMİRKALE İ., ETYEMEZ M., KIZILYILDIRM S., ALDIK R., SARI H., Project Supported by Higher Education Institutions, Yetiştiriciliği Yapılan ve Doğadan Avlanan Nil Tilapia (*Oreochromis niloticus*)'larında Karşılaştırmalı Probiyotik Araştırmaları, 2014 - 2016

CENGİZLER İ., TABAKOĞLU Ş., ETYEMEZ M., Project Supported by Higher Education Institutions, SCREENING OF PROBIOTIC BACTERIA FOR THE CONTROL OF *Streptococcus iniae* AND *Edwardsiella piscicida* IN TILAPIA *Oreochromis niloticus* Linneus 1758, 2015 - 2015

## Metrics

Publication: 45

Citation (WoS): 219

Citation (Scopus): 253

H-Index (WoS): 7

H-Index (Scopus): 7

## Congress and Symposium Activities

17th International Conference On Diseases of Fish and Shellfish, Attendee, Spain, 2015

2nd IWOSC, Attendee, South Africa, 2013