

## Asst. Prof. Fatma Elif ÇEPNİ YÜZBAŞIOĞLU

### Personal Information

**Office Phone:** [+90 212 455 5700](tel:+902124555700) Extension: 20384

**Email:** [ecepnuyzbasioglu@istanbul.edu.tr](mailto:ecepnuyzbasioglu@istanbul.edu.tr)

**Web:** <https://avesis.istanbul.edu.tr/ecepnuyzbasioglu>

### International Researcher IDs

ORCID: 0000-0002-4293-9775

Publons / Web Of Science ResearcherID: A-8976-2018

Yoksis Researcher ID: 214647

### Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Moleküler Biyoloji Ve Genetik, Turkey 2007 - 2014

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Moleküler Biyoloji Ve Genetik, Turkey 2003 - 2007

Undergraduate, Istanbul University, Faculty Of Science, Biyoloji, Turkey 1996 - 2000

### Certificates, Courses and Trainings

Education Management and Planning, HPLC ve HPLC ile Metod Geliştirme Eğitimi, The Swiss Counselling, 2015

Education Management and Planning, Horizon 2020, İ.Ü. Teknoloji Transfer Uygulama ve Araştırma Merkezi, 2013

Education Management and Planning, Quorum sensing in Plant Associated Bacteria" (Theoretical and Practical Course),

International Centre For Genetic Engineering and Biotechnology (ICGEB), 2011

### Dissertations

Doctorate, Bakteriyel Quorum-Sensing İnhibitörlerinin Araştırılması ve Biyokimyasal Olarak Tanımlanması , Istanbul University, Institute of Graduate Studies In Sciences, 2014

Postgraduate, Bitkisel Patojenlerin PCR'a Dayalı Yöntemlerle Genetik Tiplendirmesi, Istanbul University, Institute of Graduate Studies In Sciences, 2007

### Research Areas

Life Sciences, Biotechnology, Plant Biotechnology, Molecular Biology and Genetics, Microbial Genetics, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü, 2019 - Continues

Expert, Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü, 2014 - 2019

## Courses

Mikrobiyota, Undergraduate, 2023 - 2024  
Bitirme Projesi II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Seminer, Undergraduate, 2020 - 2021, 2019 - 2020  
Biyokozmetikler, Undergraduate, 2021 - 2022, 2020 - 2021  
Hücre Biyolojisi I, Undergraduate, 2020 - 2021, 2019 - 2020  
Genetik Kaynaklar ve Koruma, Undergraduate, 2021 - 2022, 2020 - 2021  
Mikrobiyal İletişim Quorum Sensing, Postgraduate, 2021 - 2022, 2020 - 2021  
Bitki Genomunun Organizasyonu, Postgraduate, 2020 - 2021, 2019 - 2020  
Sekonder Metabolitler, Undergraduate, 2020 - 2021, 2019 - 2020  
Bitirme Projesi I, Undergraduate, 2021 - 2022, 2020 - 2021  
Bitkilere Gen Transfer Yöntemleri, Postgraduate, 2021 - 2022, 2020 - 2021  
Bitki Moleküler Biyolojisi, Undergraduate, 2021 - 2022, 2020 - 2021  
Bitki Genetiği, Undergraduate, 2019 - 2020  
Genel Biyoloji, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
Deney Hayvanları, Undergraduate, 2019 - 2020  
Tıbbi Biyoloji ve Genetik, Undergraduate, 2019 - 2020, 2018 - 2019

## Advising Theses

Çepni Yüzbaşıoğlu F. E., Kazdağı Milli Parkı'nda Yetişen Bazı Thymus Türlerinde Endemizm ve Mikrobiyom İlişkisinin Araştırılması, Postgraduate, G.Ercan(Student), 2023

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

- I. **Identification of a 3-(5-methyl-2-thiazolylamino)phthalide as a new minor groove agent**  
Tanrikulu Yılmaz Z., Odabaşoğlu H. Y., Şenel P., Çepni Yüzbaşıoğlu F. E., Erdoğan T., Özdemir A., Gölcü A., Odabaşoğlu M., Büyükgüngör O.  
Journal Of Biomolecular Structure & Dynamics, vol.1, no.1, pp.1-17, 2022 (SCI-Expanded)
- II. **Diosgenin production in Trigonella foenum-graecum (Fenugreek) cell cultures in response to yeast extract elicitation**  
İlgar B. A., ÖZDEN S., ÇEPNİ YÜZBAŞIOĞLU F. E., TURGUT KARA N.  
Plant Cell, Tissue and Organ Culture, vol.146, pp.21-27, 2021 (SCI-Expanded)
- III. **Evaluation of quorum sensing modulation by plant extracts originating from Turkey**  
Yuzbasioglu E. C., Bona M., Serbetci T., Gurel F.  
PLANT BIOSYSTEMS, vol.152, no.3, pp.376-385, 2018 (SCI-Expanded)
- IV. **SYNTHESIS AND CHARACTERIZATION OF COPOLYMERIC AND TERPOLYMERIC HYDROGEL-SILVER NANOCOMPOSITES BASED ON ACRYLIC ACID, ACRYLAMIDE AND ITACONIC ACID: INVESTIGATION OF THEIR ANTIBACTERIAL ACTIVITY AGAINST GRAM-NEGATIVE BACTERIA**  
Bal A., Cepni F. E., Cakir O., Acar I., Guclu G.  
BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING, vol.32, no.2, pp.509-518, 2015 (SCI-Expanded)
- V. **Evaluation of biological activities of Physalis peruviana ethanol extracts and expression of Bcl-2 genes in HeLa cells**  
Cakir O., Pekmez M., Cepni E., Candar B., Fidan K.  
FOOD SCIENCE AND TECHNOLOGY, vol.34, no.2, pp.422-430, 2014 (SCI-Expanded)
- VI. **Genetic diversity and mating types of Fusarium culmorum and Fusarium graminearum originating from different agro-ecological regions in Turkey**  
Cepni E., Tunali B., Gurel F.  
JOURNAL OF BASIC MICROBIOLOGY, vol.53, no.8, pp.686-694, 2013 (SCI-Expanded)
- VII. **Variation in extragenic repetitive DNA sequences in Pseudomonas syringae and potential use of**

### **modified REP primers in the identification of closely related isolates**

Cepni E., Gurel F. E.

GENETICS AND MOLECULAR BIOLOGY, vol.35, no.3, pp.650-656, 2012 (SCI-Expanded)

### **VIII. Use of Rep-PCR for Genetic Diversity Analyses in *Fusarium culmorum***

Gurel F., Albayrak G., Diken O., Cepni E., Tunalı B.

JOURNAL OF PHYTOPATHOLOGY, vol.158, no.5, pp.387-389, 2010 (SCI-Expanded)

## **Articles Published in Other Journals**

### **I. Pharmacological Properties of *Genista sagittalis* L. (Fabaceae) Grown in Turkey**

Şenel P., Sadıkoğulları B. C., Çepni Yüzbaşıoğlu E., Mertoğlu Elmas G., Oral D., Gölcü A., Daut Özdemir A.

INDONESIAN JOURNAL OF CHEMISTRY, vol.23, no.3, pp.681-691, 2023 (ESCI)

### **II. Bitkilerden Elde Edilen Anti-Quorum Sensing Bileşikleri Ve Yeni İlaç Geliştirmedeki Potansiyelleri**

ÇEPNİ E., Gürel F.

TÜRK MİKROBİYOLOJİ CEMİYETİ DERGİSİ, vol.41, no.4, pp.131-138, 2011 (Peer-Reviewed Journal)

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

### **I. Antioxidant Activities of *Bituminaria bituminosa* Callus Cultures Produced under Different Conditions**

Talebzadeh D., Ercan G., Dilemek B., Çepni Yüzbaşıoğlu F. E.

The 10th International Mediterranean Symposium on Medicinal and Aromatic Plants, İstanbul, Turkey, 25 - 27 April 2024, pp.204

### **II. INVESTIGATION OF THE EFFECTS OF SOME ELICITORS ON (–)- A- BISABOLOL PRODUCTION IN *MATRICARIA CHAMOMILLA* L. CALLUS CULTURES**

Dilemek B., Unat Ş., Gerçek Y. C., Çepni Yüzbaşıoğlu F. E.

Agrobiol2023, Edirne, Turkey, 18 October 2023, pp.389

### **III. Rhizosphere microbiome profile of the local endemic and critically endangered *Thymus pulvinatus***

Ercan G., Arıkan M., Yüzbaşıoğlu İ. S., Çepni Yüzbaşıoğlu F. E.

9th Ecology and Evolutionary Biology Symposium, İstanbul, Turkey, 17 - 19 July 2023, pp.60

### **IV. Quality-Control of *Hypericum perforatum* L. Preparations Sold in Herbal Drogstores and Pharmacies of Adana and Investigation of Their Hypericin and Hyperoside Content by HPLC**

Şerbetçi T., Çepni Yüzbaşıoğlu F. E.

13. International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 22 - 25 June 2021, pp.1

### **V. Investigation of Intermolecular Interactions between Functional Monomers and Template Molecules for the Synthesis of Polyamine Imprinted Polymers**

Çakır Hatır P., Çepni Yüzbaşıoğlu F. E., Yücel O., Mustafafoğlu N. M., Türker Ş.

2.Euroasia Biochemical Approaches & Technologies (EBAT), Antalya, Turkey, 26 - 29 October 2019, pp.161

### **VI. Cytotoxicity and Antibacterial Activity of Silk Fibroin Based Wound Dressing Films Incorporated with Ginger Extract**

Özbaş Z., Bal Öztürk A., Püren Akgüner Z., Özgen S., Özkahraman B., ÇEPNİ YÜZBAŞIOĞLU F. E., ÇAKIR Ö.

Brightlands Rolduc Polymer Conference, Kerkrade, Netherlands, 9 - 11 September 2019, pp.1

### **VII. Synthesis and Characterization of Molecularly Imprinted Polymers for Solid Phase Extraction of Quercetin**

Çakır Hatır P., Balta B., Çepni Yüzbaşıoğlu F. E., Günday Türelı N.

4 th International Conference on Bioinspired and Biobased Chemistry & Materials, Nice, France, 14 - 17 October 2018, pp.1

### **VIII. Enzymatic Activity of Endophytic *Fusarium* spp. and Effectiveness on *Fusarium* Crown Rot Disease of Wheat**

Tunalı B., Kansu B., GÜREL A. F., Ölmez F., ÇEPNİ YÜZBAŞIOĞLU F. E.

International Symposium Microbe-Assisted Crop Production-Opportunities, Challenges&Needs, Viyana, Austria, 23 - 25 November 2015, vol.1, no.1, pp.219

**IX. Genotyping and Discrimination of Endophytic and Pathogenic Fungal Isolates by RAPD Markers: A Vase Study for Fusarium spp.Originating from Cereal Field Locations**

ÇEPNİ YÜZBAŞIOĞLU F. E., Karahalil B., Kansu B., Tunalı B., GÜREL A. F.

International Workshop on Green Biotechnology, Kocaeli, Turkey, 21 - 23 September 2015, pp.63

**X. Determination of enzymatic activity of endophytic Fusarium spp. and their interaction with Fusarium crown rot disease**

Tunalı B., Kansu B., GÜREL A. F., Ölmez F., ÇEPNİ YÜZBAŞIOĞLU F. E.

COST Action FA1103: Endophytes in Biotechnology and Agriculture WG1-4 Meeting on "RISK ASSESSMENT OF ENDOPHYTES", İzmir, Turkey, 4 - 07 November 2014, vol.1, no.1, pp.15-16

**XI. The Prolonging Effect of Modified Magnesium Hydro-Silicate on the Stability of Ammonia Test Kits**

Özçelik F., ÇEPNİ F. E., Serdar M. A., Günay M.

22nd International Congress of Clinical Chemistry and Laboratory Medicine (IFCC Worldlab 2014), Topic N: Quality Assesment, İstanbul, Turkey, 22 - 26 June 2014, vol.52, pp.1597

**XII. Antibacterial and antioxidant activities of Physalis peruviana**

Pekmez M., ÇEPNİ F. E., Candar Çakır B., Çakır Ö.

5th Central European Congress of Life Sciences, Krakow, Poland, 8 - 11 October 2013, pp.38

**XIII. Hydrogel-Silver Nanocomposites for Antibacterial Application**

Bal A., ÇEPNİ F. E., Çakır Ö., Acar I., Güçlü G.

8th International Conference on the Enviromental Effects of Nanoparticles and Nanomaterials, Aix-En-Provence, France, 3 - 05 July 2013, pp.1

**XIV. Türkiye’de doğal olarak yetişen bazı Stachys cretica alttürlerinin anti-QS aktiviteleri yönünden araştırılması**

Şerbetçi T., ÇEPNİ E.

20. Bitkisel İlaç Hammadeleri Toplantısı (BİHAT), Antalya, Turkey, 10 October 2012 - 13 October 2013, pp.55

**XV. Anti-Quorum Sensing Etkili Bileşiklerin Moleküler Biyosensörlerle Belirlenmesi**

ÇEPNİ E., Şerbetçi T., Gürel F.

16. Ulusal Biyoteknoloji Kongresi, Antalya, Turkey, 14 - 16 December 2009, pp.29

**XVI. Arpa (Hordeum vulgare L.)’nın Farklı Çeşit Eksplantlarında in vitro rejenerasyon kapasitesi**

Yörük E., ÇEPNİ E., Çakır Ö., Albayrak G., Arı Ş., Gürel F.

16. Ulusal Biyoteknoloji Kongresi, Antalya, Turkey, 14 - 16 December 2009, pp.106-109

**XVII. Bitkisel Patojen Bakterilerin Tiplendirilmesinde REP-PCR’ın Kullanımı**

ÇEPNİ E., Gürel F.

18. Ulusal Biyoloji Kongresi, Aydın, Turkey, 26 - 30 June 2006, pp.220-221

## Supported Projects

ÇEPNİ YÜZBAŞIOĞLU F. E., ERCAN G., Project Supported by Higher Education Institutions, Kazdağı Milli Parkı’nda Yetişen Bazı Thymus Türlerinde Endemizm ve Mikrobiyom İlişkinin Araştırılması, 2022 - 2024

Çepni Yüzbaşıoğlu F. E., TUBITAK Project, Ekonomik Değeri Düşük Pirinç Kepeğinden Katma Değeri Yüksek Poliamin Eldesi, 2017 - 2020

ÇEPNİ YÜZBAŞIOĞLU F. E., TUBITAK Project, Kapari Bitkisinden Moleküler Baskılama Yöntemi ile Yüksek Safılıkta Kuersetin Eldesi, 2016 - 2019

GÜREL A. F., UÇARLI C., KARAHALİL B., ÇEPNİ YÜZBAŞIOĞLU F. E., Project Supported by Higher Education Institutions, Bitkilerde G protein sinyal yolağının tuz stresi ve kök büyümesine etkisinin araştırılması, 2017 - 2018

ACAR I., ÇEPNİ YÜZBAŞIOĞLU F. E., ÇAKIR Ö., BAL ÖZTÜRK A., TAHMAZ M., GÜÇLÜ G., Project Supported by Higher Education Institutions, Atık PET’in farklı glikoller ile depolimerizasyonu ve ürün özelliklerinin incelenmesi, 2016 - 2016  
EU Supported Other Project, Buğday’da (Triticum aestivum L.) kök çürüklük patojeni Fusarium spp.’ye karşı endofitik

Fusarium spp.'nin antimikrobiyal aktivitesi ve bazı patojenik ve endofitik Fusarium spp.'nin moleküler farklılıkları, 2012 - 2015  
ÇEPNİ YÜZBAŞIOĞLU F. E., Project Supported by Other Official Institutions, Yüksek Kalitede Bitki Ekstreleri Üretimi, 2011 - 2012  
GÜREL A. F., TÜBİTAK Project, Biyodizel endüstrisi atıksularının fiziksel, kimyasal ve biyolojik yöntemlerle arıtılabilirliğinin incelenmesi, 2008 - 2011

## Scientific Refereeing

APPLIED AND ENVIRONMENTAL MICROBIOLOGY, Journal Indexed in SCI-E, December 2023  
Emergency R&D Project of Group A, Turkey, December 2023  
Microbiology spectrum, Journal Indexed in SCI-E, August 2023  
TÜBİTAK Project, 2209-B - Sanayiye Yönelik Lisans Araştırma Projeleri Destekleme Programı, İstanbul University, Turkey, August 2023  
TÜBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, İstanbul University, Turkey, August 2023  
Microbiology spectrum, Journal Indexed in SCI-E, July 2023  
TÜBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, İstanbul University, Turkey, March 2023  
Research Project of the Presidency of Turkey Health Institutes (TÜSEB), İstanbul University, Turkey, September 2022  
TÜRK MİKROBİYOLOJİ CEMİYETİ DERGİSİ, National Scientific Refreed Journal, March 2021  
TÜBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, İstanbul University, Turkey, March 2021

## Metrics

Publication: 27  
Citation (WoS): 76  
Citation (Scopus): 96  
H-Index (WoS): 5  
H-Index (Scopus): 5

## Congress and Symposium Activities

The 10th International Mediterranean Symposium on Medicinal and Aromatic Plants,, Attendee, İstanbul, Turkey, 2024  
International Agricultural, Biological&Life Science Conference (Agbiol 2023), Attendee, Edirne, Turkey, 2023  
13. International Symposium on Pharmaceutical Sciences (ISOPS), Attendee, Ankara, Turkey, 2021  
Brightlands Rolduc Polymer Conference, Attendee, Netherlands, 2019  
4 th International Conference on Bioinspired and Biobased Chemistry & Materials, Attendee, Nice, France, 2018  
TÜBİTAK 1000Projeleri AR-GE Strateji Çalıştayı, Attendee, Turkey, 2016  
International Workshop on Green Biotechnology, Attendee, Kocaeli, Turkey, 2015  
POLYCHEM 2015 – International Symposium on Polymers From Renewable Resouces: 40 years in Science, Attendee, İstanbul, Turkey, 2015  
22nd International Congress of Clinical Chemistry and Laboratory Medicine (IFCC Worldlab 2014), Topic N: Quality Assesment, Attendee, İstanbul, Turkey, 2014  
5th Central European Congress of Life Sciences, Attendee, Kraków, Poland, 2013  
20. Bitkisel İlaç Hammadeleri Toplantısı (BİHAT), Attendee, Antalya, Turkey, 2013  
8th International Conference on the Enviromental Effects of Nanoparticles and Nanomaterials, Attendee, Aix-En-

Provence, France, 2013

2013 Annual Meeting of the American Society of Pharmacognosy Natural Products at a Crossroad: Current and Future Directions, Topic N: Natural Products Discovery: Plants, Attendee, Missouri, United States Of America, 2013

I. Gıda Ar-Ge Proje Pazarı, Attendee, İzmir, Turkey, 2012

I. Kimya Ar-Ge Proje Pazarı, Attendee, İstanbul, Turkey, 2011

16. Ulusal Biyoteknoloji Kongresi, Attendee, Antalya, Turkey, 2009

18. Ulusal Biyoloji Kongresi, Attendee, Antalya, Turkey, 2006

## **Scholarships**

Quorum sensing in Plant Associated Bacteria, Other International Organizations, 2011 - 2011

## **Awards**

ÇEPNİ YÜZBAŞIOĞLU F. E., 1. Kimya ARGE Proje Pazarı-Kozmetik, sabun ve temizlik ürünleri kategorisi 3'lük ödülü, İKMİB - İstanbul Kimyevi Maddeler ve Mamülleri İhracatçılar Birliği, Aralık 2011, December 2011