

2023 Yılında Yayımlanan Makaleler

Akdeniz Üniversitesi,
Fen Fakültesi,
Biyoloji Bölümü.



BİYOLOJİ BÖLÜMÜ

Industrial Crops & Products 195 (2023) 116489



ELSEVIER

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Industrial Crops & Products

journal homepage: www.elsevier.com/locate/indcrop

Chemical composition of endemic and endangered *Gypsophila pilulifera* produced by *in vitro* micropropagation method

Hatice Üstüner^a, Ayşe Gül Nasırcılar^b, Hüseyin Servi^{c,*}, Murat Emrah Maviş^d, Neşe Ular Çağatay^d, Ramazan Süleyman Göktürk^a

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WOS
Q1

BİYOLOJİ BÖLÜMÜ

PATHOGENS AND GLOBAL HEALTH
2023, VOL. 117, NO. 4, 342–355
<https://doi.org/10.1080/20477724.2022.2117937>



Bordetella pertussis and outer membrane vesicles

Çiğdem Yılmaz Çolak^a and Burcu Emine Tefon Öztürk^b

^aTUBITAK, Marmara Research Center, Life Sciences; ^bDepartment of Biology, Akdeniz University, Antalya, Turkey

ABSTRACT

Bordetella pertussis is the causative agent of a respiratory infection called pertussis (whooping cough) that can be fatal in newborns and infants. The pathogen produces a variety of antigenic compounds which alone or simultaneously can damage various host cells. Despite the availability of pertussis vaccines and high vaccination coverage around the world, a resurgence of the disease has been observed in many countries. Reasons for the increase in pertussis cases

KEYWORDS

Bordetella pertussis; outer membrane vesicle; acellular pertussis vaccine; whole-cell pertussis vaccine

WOS
Q1

BİYOLOJİ BÖLÜMÜ



Contents lists available at [ScienceDirect](#)

Toxicology

journal homepage: www.elsevier.com/locate/toxicol

Computational assessment of the biological response of curcumin to type 2 diabetes mellitus induced by metal exposure

Ghada Tagorti , Burçin Yalçın , Merve Güneş , Ayşen Yağmur Burgazlı , Bülent Kaya *

Akdeniz University, Faculty of Sciences, Department of Biology, Campus, Antalya 07058, Turkey

WOS
Q1

BİYOLOJİ BÖLÜMÜ



Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Science of the Total Environment

journal homepage: www.elsevier.com/locate/scitotenv

Morphologically different hydroxyapatite nanoparticles exert differential genotoxic effects in *Drosophila*

Merve Güneş^a, Burçin Yalçın^a, Ayşen Yağmur Burgazlı^a, Ghada Tagorti^a, Emre Yavuz^b,
Esin Akarsu^b, Nuray Kaya^a, Ricard Marcos^{c,*}, Bülent Kaya^{a,*}

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WOS
Q1

BİYOLOJİ BÖLÜMÜ

Received: 15 March 2023 | Accepted: 13 October 2023

DOI: 10.1111/syen.12615

ORIGINAL ARTICLE

Systematic
Entomology



Understudied regions and messy taxonomy: Geography, not taxonomy, is the best predictor for genetic divergence of the *Poecilimon bosphoricus* species group

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Abstract

The complex and dynamic history of the Anatolian Peninsula during the Pleistocene set the stage for species diversification. However, the evolutionary history of biodiversity in the region is shrouded by the challenges of studying species divergence in the recent, dynamic past. Here, we study the *Poecilimon bosphoricus* (PB) species group to understand how the bush crickets' diversification and the regions' complex history are coupled. Specifically, using sequences of two mitochondrial and two nuclear gene segments from over 500 individuals for a comprehensive set of taxa with extensive geographic sampling, we

WOS
Q1

BİYOLOJİ BÖLÜMÜ



TÜBİTAK

Turkish Journal of Agriculture and Forestry

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Research Article

Turk J Agric For

(2023) 47: 1130-1141

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doi:10.55730/1300-011X.3152

Determination of genetic diversity among some naturally growing *Arbutus andrachne* L. genotypes in Türkiye using morphological, biochemical, and molecular markers

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⁴Department of Horticulture, Agricultural Faculty, Akdeniz University, Antalya, Türkiye

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WOS
Q1

BİYOLOJİ BÖLÜMÜ



Article

Anatomical Structure and Phytochemical Composition of a Rare Species *Fraxinus sogdiana* Bunge (Oleaceae) Growing in Different Soils in Kazakhstan

Almagul Aldibekova ¹, Meruyert Kurmanbayeva ^{1,*}, Ahmet Aksoy ², Valeria Permitina ³, Liliya Dimeyeva ³ and Nikolai Zverev ³

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WOS
Q2

BİYOLOJİ BÖLÜMÜ

WOS
Q2



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MICROBIOLOGY

**Comparative analysis of phenolic compositions
and biological activities of three endemic
Teucrium L. (Lamiaceae) species from Turkey**

SEVIL ALBAYRAK & AHMET AKSOY

BİYOLOJİ BÖLÜMÜ

Received: 19 July 2023 | Accepted: 3 December 2023

DOI: 10.1111/mve.12704

ORIGINAL ARTICLE

Medical and Veterinary
Entomology



Effects of solid and aqueous dietary diflubenzuron ingestion on some biological parameters in synthetic pyrethroid-resistant German cockroach, *Blattella germanica* L. (Blattodea: Ectobiidae)

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Zeynep Nur Gultekin² | Cansu Caliskan² | Huseyin Cetin²

¹Department of Medical Services and Techniques, Vocational School of Health Services, Antalya Bilim University, Antalya, Türkiye

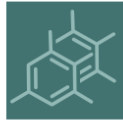
²Department of Biology, Faculty of Science, Akdeniz University, Antalya, Türkiye

Abstract

Cockroaches, widespread pests found in metropolitan areas, are known as vectors of various disease agents, including viruses, fungi and antibiotic-resistant bacteria, as well as causing allergies in humans. Insect growth regulators have been used in pest management for several decades. These insecticides disrupt insect development and repro-

WOS
Q2

BİYOLOJİ BÖLÜMÜ



molecules



Article

Exploring the Larvicidal and Repellent Potential of Taurus Cedar (*Cedrus libani*) Tar against the Brown Dog Tick (*Rhipicephalus sanguineus sensu lato*)

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WOS
Q2

BİYOLOJİ BÖLÜMÜ

PeerJ

Use of micro and macroalgae extracts for the control of vector mosquitoes

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² Department of Biology, Faculty of Science, Akdeniz University, Antalya, Türkiye

ABSTRACT

Mosquitoes are one of the most dangerous vectors of human diseases such as malaria, dengue, chikungunya, and Zika virus. Controlling these vectors is a challenging responsibility for public health authorities worldwide. In recent years, the use of products derived from living organisms has emerged as a promising approach for mosquito control. Among these living organisms, algae are of great interest due to their larvicidal properties. Some algal species provide nutritious food for larvae, while others

WOS
Q2

BİYOLOJİ BÖLÜMÜ

Acar and Kaymak *BMC Zoology* (2023) 8:29
<https://doi.org/10.1186/s40850-023-00191-8>

BMC Zoology

RESEARCH

Open Access



Morphological and functional trait divergence in endemic fish populations along the small-scale karstic stream

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WOS
Q2

BİYOLOJİ BÖLÜMÜ

 **frontiers** | Frontiers in Environmental Science

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Distribution and sources of particulate organic matter from the anthropogenically disturbed Iyidere River to the Black Sea coast

Nehir Kaymak^{1*}, Tanju Mutlu² and Bulent Verep³

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WOS
Q2

BİYOLOJİ BÖLÜMÜ

Organisms Diversity & Evolution

<https://doi.org/10.1007/s13127-023-00602-1>

ORIGINAL ARTICLE

Taxonomy of the rear-edge populations: the case of genus *Anterastes* (Orthoptera, Tettigoniidae)

Onur Uluar¹  · Özgül Yahyaoğlu¹  · Hasan Hüseyin Başbüyük²  · Battal Çıplak¹ 

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WOS
Q2

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2021-2023
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atıf alan yayın

Atıf Sayısı: 28
Tarih: 01.02.2024



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Chemosphere

journal homepage: www.elsevier.com/locate/chemosphere



Genotoxic effect of microplastics and COVID-19: The hidden threat

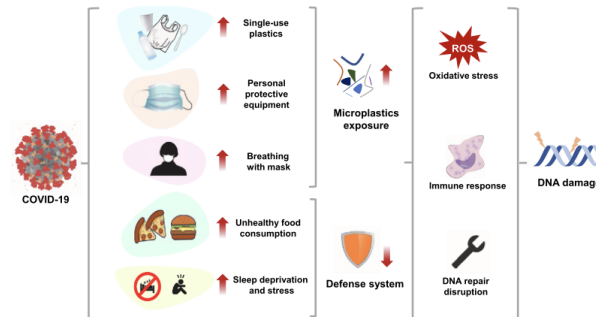
Ghada Tagorti, Bülent Kaya*

Akdeniz University, Faculty of Sciences, Department of Biology, 07058-Campus, Antalya, Turkey

HIGHLIGHTS

- The genotoxic effects of MPs are determined in somatic cells of aquatic organisms and human peripheral lymphocytes.
- The mechanism of MPs-induced genotoxicity is associated with oxidative stress, inflammation, and DNA repair disruption.
- The COVID-19 pandemic contributes to the genotoxic potential of MPs.

GRAPHICAL ABSTRACT

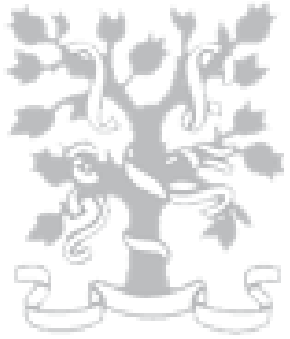


Dış Kaynaklı Projeler

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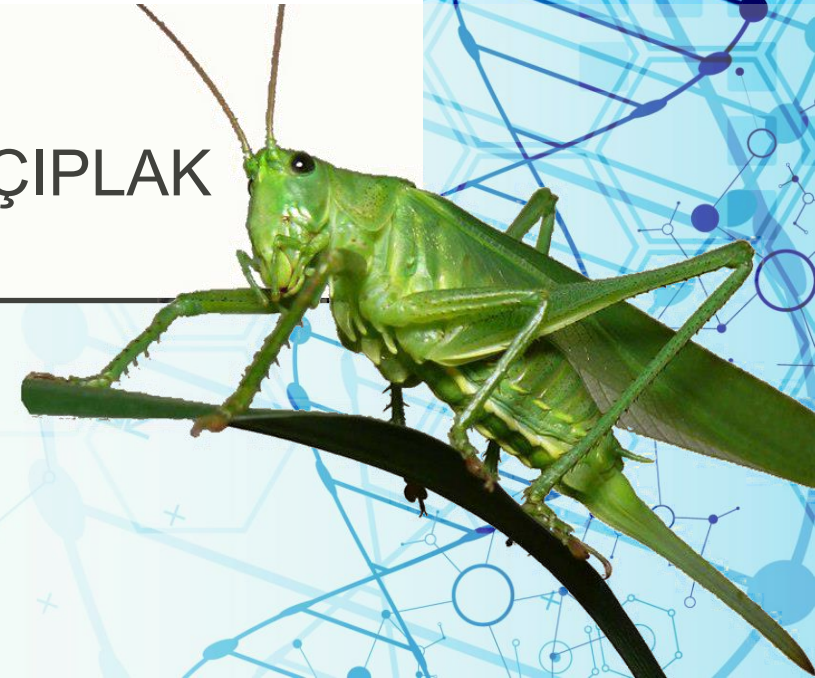


CSIC

Spanish Council of Research

Proje Başlığı: Bridging the gap between demography and diversification: Insights from an evolutionary radiation of grasshoppers

Proje Yürütücüsü: Prof. Dr. Battal ÇIPLAK



BİYOLOJİ BÖLÜMÜ



**Orthopterist'
Society**

Proje Başlığı: Taxonomy and phylogeography of *Poecilimon zonatus* group (Phaneropterinae, Orthoptera): A story linked to the Taurus Way

Proje Yürütücüsü: Arş. Gör. Onur ULUAR



BİYOLOJİ BÖLÜMÜ



Proje Başlığı: Genus Poecilimon (Orthoptera, Tettigoniidae): Determining Intra-Generic Diversity Using Comprehensive Data

Proje Yürütücüsü: Arş. Gör. Onur ULUAR

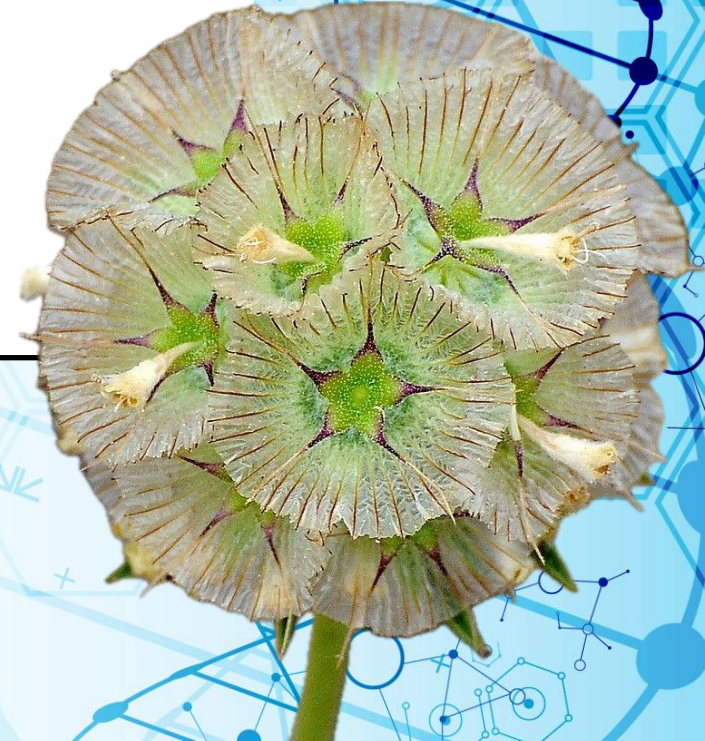


BİYOLOJİ BÖLÜMÜ

Proje Başlığı: Türkiye *Scabiosa* L. (Dipsacaceae)
Cinsinin Revizyonu

Proje No: 117Z826

Proje Yürütücüsü: Prof. Dr. Ahmet AKSOY



BİYOLOJİ BÖLÜMÜ

Proje Başlığı: Endofitik Bakteriler ile Aspir Bitkisinin Nikel Toleransının ve Fitoremediasyon Kapasitesinin Arttırılması

Proje No: 222Z011

Proje Yürütücüsü: Prof. Dr. Ahmet AKSOY



BİYOLOJİ BÖLÜMÜ



Proje Başlığı: *Poecilimon inflatus* + *P. jonicus* tür grupları (Orthoptera, Phaneropteridae): Mitokondriyal genom tanımı, moleküler saat kalibrasyonu ve tür gruplarının filogenisi ve filocoğrafyası

Proje No: 219Z180

Proje Yürütücüsü: Prof. Dr. Battal ÇIPLAK




TÜBİTAK
1001
Projesi

BİYOLOJİ BÖLÜMÜ

Proje Başlığı: Akdeniz Bölgesi'nde (Sarıkaya Yaban Hayatı Gelistirme Sahası, Antalya) Fonksiyonel Bitki Tür Çesitliliğinin Hesaplanması, Modellenmesi ve Haritalanması

Proje No: 120Z584

Proje Yürütücüsü: Doç. Dr. Candan AYKURT


TÜBİTAK
1001
Projesi



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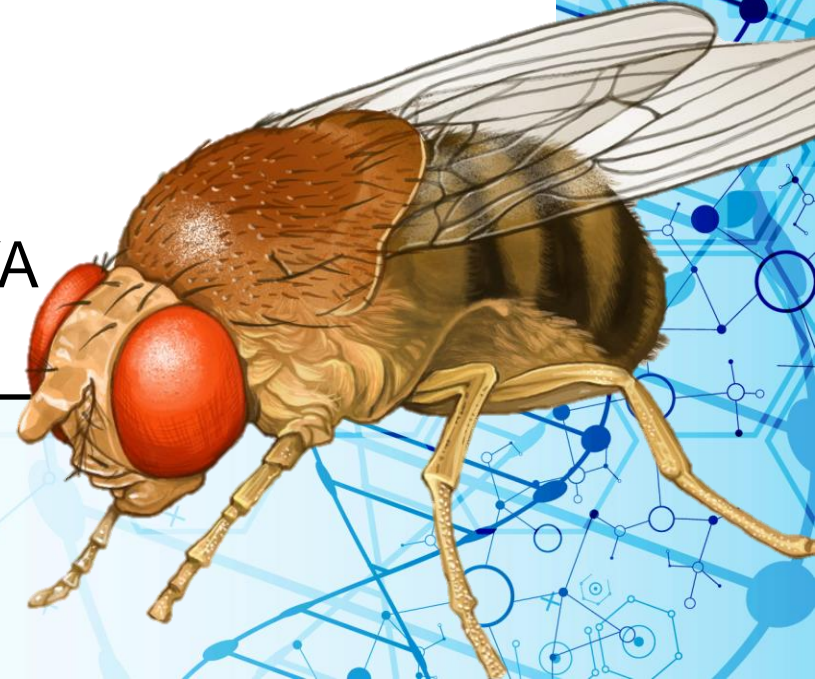


TÜBİTAK
1001
Projesi

Proje Başlığı: Farklı Zincir Uzunluklarına ve Yapılarına Sahip Kuarterner Amonyum Silan Bilesiklerinin Toksik Etkilerinin *Drosophila melanogaster* ve *Allium cepa*'da Değerlendirilmesi

Proje No: 121Z809

Proje Yürütücüsü: Prof. Dr. Bülent KAYA



BİYOLOJİ BÖLÜMÜ

Proje Başlığı: Nikelin Kolza Fizyo-anatomisi Üzerindeki Toksik Etkilerinin PGPE ile Azaltılması

Proje No: 123Z249

Proje Yürütücüsü: Prof. Dr. Ahmet AKSOY

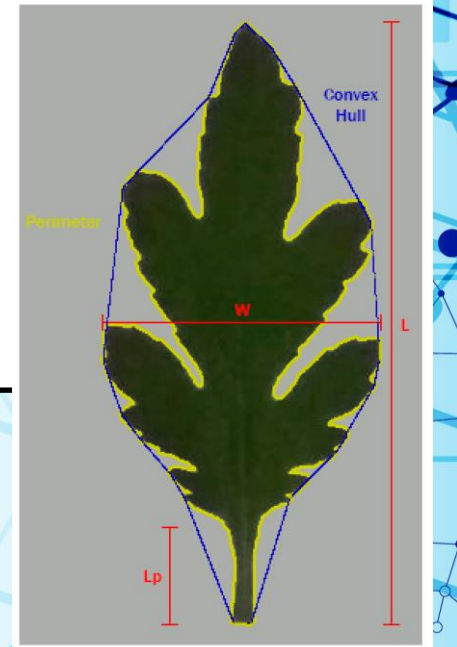


BİYOLOJİ BÖLÜMÜ

Proje Başlığı: Akdeniz Bitkilerinin (Antalya, Türkiye) Komünite Seviyesindeki Spesifik Yaprak Alanı (SLA) ve Spesifik Yaprak Ağırlıklarının (LMA) Çevresel Faktörlerle İlişkileri

Proje No: 222Z169

Proje Yürütücüsü: Doç. Dr. Candan AYKURT




TÜBİTAK
1002
Projesi

BİYOLOJİ BÖLÜMÜ

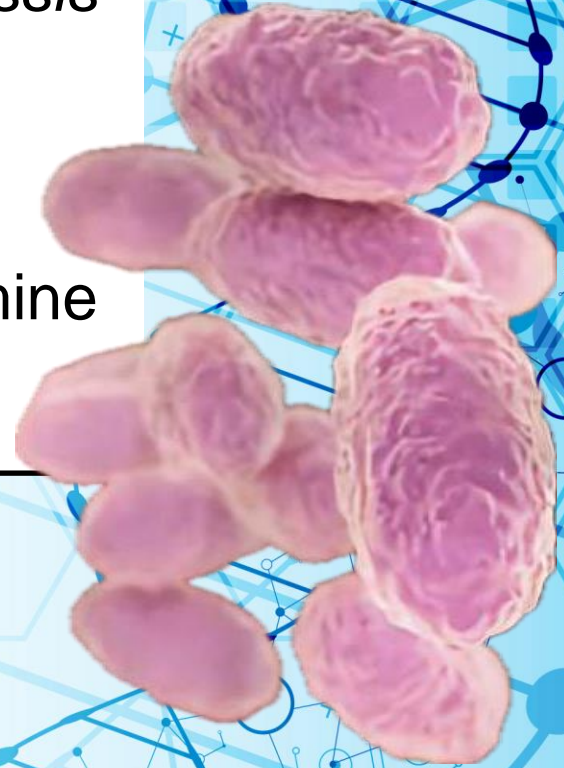
Proje Başlığı: Antibiyotiklerin Sub-Minimum Inhibitor Konsantrasyonunda *Bordetella pertussis* Üzerindeki Etkileri

Proje No: 121Z656

Proje Yürütücüsü: Dr. Öğr. Üyesi Burcu Emine TEFON ÖZTÜRK



TÜBİTAK
1002
Projesi



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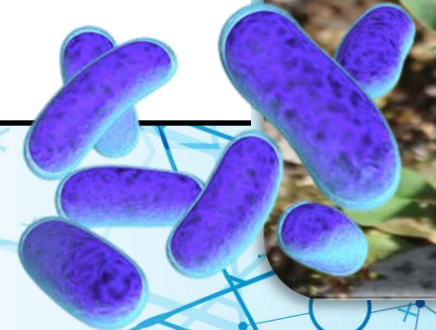


TÜBİTAK
1002
Projesi

Proje Başlığı: Endemik *Noccaea birolmutlui* Özgisi & Özüdođru Bitkisinden İzole Edilen Bakterilerin Bitki Büyümesini Teşvik Etme Özelliklerinin Belirlenmesi ve Tanımlanması

Proje No: 222Z249

Proje Yürütücüsü: Dr. Öğr. Üyesi Burcu Emine TEFON ÖZTÜRK



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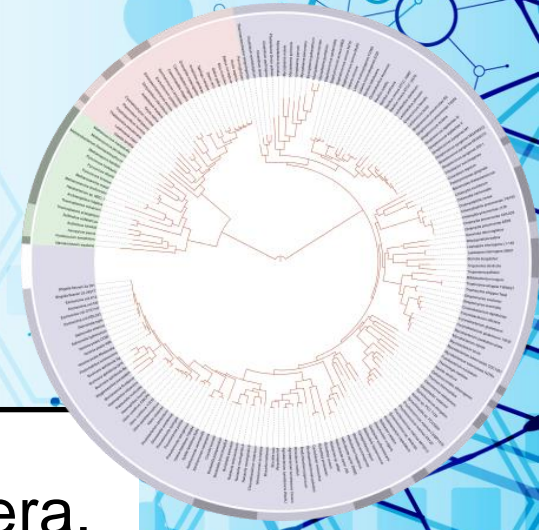


TÜBİTAK
1002
Projesi

Proje Başlığı: Poecilimon Cinsi (Orthoptera, Tettigoniidae) Tür Gruplarının Filogenisi ve Filocografyası

Proje No: 122Z432

Proje Yürütücüsü: Arş. Gör. Onur ULUAR



Kongre & Sempozyum Katılımları

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"Doğal Afetler Sonrası Vektör Mücadelesi: Türkiye 6 Şubat 2023 Depremleri Örneği"

Prof. Dr. Hüseyin ÇETİN

23. Ulusal Parazitoloji Kongresi, Antalya, Türkiye.



Toros Sediri (*Cedrus libanî*) Katranının Kahverengi Köpek Kenesi (*Rhipicephalus sanguineus sensu lato*) Erginleri Üzerindeki Toksik Etkisi

Koç S., Gültekin Z. N., Kahraman Ş., Cengiz A., Polat B., Çalışkan C., Tufan Çetin Ö., Çetin H.

23. Ulusal Parazitoloji Kongresi, Antalya, Türkiye.





"Deprem Sonrası Vektör Mücadelesi"

Prof. Dr. Hüseyin ÇETİN

25. Ulusal Halk Sağlığı Kongresi, Antalya, Türkiye, 14 - 17 Aralık 2023

ICSAS 2023

*The 8th International Conference on Science
and Applied Science*

Surakarta, 21 October 2023

"Balık Komunitesinin Trofik Yapısındaki Mevsimsel Ve Alansal Farklılıkların Kararlı İzotop Analizi İle Ortaya Çıkarılması"

Dr. Öğr. Üyesi Nehir KAYMAK

Ege 8th International Conference On Applied Sciences, İzmir, Türkiye.

Kamu Kurumlarına Verilen Hizmetler

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Fen Fakültesi,
Biyoloji Bölümü.



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