



TRAKYA UNIVERSITY



JOURNAL OF NATURAL SCIENCES

23 Volume

1 Number

April

2022

TRAKYA
UNIVERSITY
JOURNAL OF
NATURAL
SCIENCES



Trakya Univ J Nat Sci

ISSN 2528-9691

Trakya University Journal of Natural Sciences

Volume: 23

Number: 1

October 2022

Trakya Univ J Nat Sci

<http://dergipark.org.tr/trkjnat>

e-mail: tujns@trakya.edu.tr

ISSN 2528-9691

Owner

On behalf of Trakya University Rectorship, Graduate
 School of Natural and Applied Sciences
 Prof. Dr. Hüseyin Rıza Ferhat KARABULUT

Editor-in-Chief

Prof. Dr. Kadri KIRAN

Editorial Board

Abdel Hameed A. AWAD	Egypt	Kürşad TÜRKŞEN	Canada
Albena LAPEVA-GJONOVA	Bulgaria	Mehmet Bora KAYDAN	Turkey
Ayşegül ÇERKEZKAYABEKİR	Turkey (Copyeditor)	Melike SAPMAZ	Turkey
Bálint MARKÓ	Romania	Mustafa YAMAÇ	Turkey
Beata ZIMOWSKA	Poland	Mykyta PEREGRYM	Hungary
Belgin SÜSLEYİCİ	Turkey	Naime ARSLAN	Turkey
Burak ÖTERLER	Turkey (Design Editor)	Neveen S.İ. GEWEELY	Egypt
Bülent YORULMAZ	Turkey	Özgür EMIROĞLU	Turkey
Celal KARAMAN	Turkey (Copyeditor)	Özkan DANİŞ	Turkey
Cem VURAL	Turkey	Panagiotis MADESIS	Greece
Coşkun TEZ	Turkey	Regina KAROUSOU	Greece
Dimitrios MOSSIALOS	Greece	Reşat ÜNAL	Turkey
Enes TAYLAN	United States	Saliha ÇORUH	Turkey
Errol HASSAN	Australia	Selçuk KORKMAZ	Turkey (Biostatistics Editor)
Gamze ALTINTAŞ KAZAR	Turkey (Design Editor)	Tuğba ONGUN SEVİNDİK	Turkey
Graham SAUNDERS	England	Vedat BEŞKARDEŞ	Turkey
Güray DOĞAN	Turkey	Volkan AKSOY	Turkey (Eng Language Editor)
Hatice KORKMAZ GÜVENMEZ	Turkey	Yerlan TURUSPEKOV	Kazakhstan
Herdem ASLAN	Turkey	Yeşim SAĞ	Turkey
Ionnias BAZOS	Greece	Yıldız AYDIN	Turkey
İskender KARALTI	Turkey	Zeynep KATNAŞ	Turkey
İpek SÜNTAR	Turkey		

Correspondence Address

Trakya Üniversitesi Fen Bilimleri Enstitüsü Binası, Balkan Yerleşkesi – 22030 Edirne / TÜRKİYE

e-mail: tujns@trakya.edu.tr

Tel: +90 284 2358230

Fax: +90 284 2358237

This Journal is a peer reviewed journal and is indexed by CAB Abstract, CiteFactor, DOAJ (Directory of Open Access Journal), DRJI (Directory of Research Journal Indexing), ESCI (Emerging Sources Citation Index), ResearchBib, Science Library Index, SIS (Scientific Indexing Services), TUBITAK-ULAKBİM Life Sciences Database (Turkish Journal Index) and Zoological Record.

Publisher

Trakya Üniversitesi Matbaa Tesisleri / Trakya University Publishing Centre

TRAKYA UNIVERSITY JOURNAL OF NATURAL SCIENCE

Volume 23

Number 1

April

2022

REVIEWER LIST

- Alper GÜVEN (Tunceli, TURKEY)
- Bakytzhan BEKMANOV (Almaty, KAZAKHSTAN)
- Bernd MÜLLER (Berlin, GERMANY)
- Davut Soner AKGÜL (Adana, TURKEY)
- Diana ZLATANOVA (Sofia, BULGARIA)
- Emel YILMAZ (Edirne, TURKEY)
- Emre SEVİNDİK (Aydın, TURKEY)
- Esra ÇETİN (Illinois, USA)
- Feza CAN CENGİZ (Hatay, TURKEY)
- Kadir ÇINAR (Edirne, TURKEY)
- Kambiz MINAEI (Shiraz, IRAN)
- Koula DOUKANI (Tiaret, ALGERIA)
- Mara ULIN (Illinois, USA)
- Memet İNAN (Adıyaman, TURKEY)
- Mert SUDAĞIDAN (Konya, TURKEY)
- Mine GÜL ŞEKER (Kocaeli, TURKEY)
- Nurhan SÜMER (Bursa, TURKEY)
- Samaneh SOLHJOUY-FARD (Tehran, IRAN)
- Saule ABUGALIEVA (Almaty, KAZAKHSTAN)
- Serpil TANGOLAR (Adana, TURKEY)
- SİNEM KARAKUŞ (Hakkari, TURKEY)
- Tarkan YORULMAZ (Çankırı, TURKEY)

CONTENTS

Research Article

- | | |
|--|--------------|
| 1. <i>İpek EKİCI, Cengiz DARICI, Zahraddeen Kabir SANI, Sadık DINÇER</i> | 1-13 |
| Comparison of C and N mineralization and metagenome analysis of rhizosphere soils belonging to different <i>Colchicum</i> L. species | |
| 2. <i>Nuriye MERAKLI, İbrahim BULDUK, Abdülrezzak MEMON</i> | 15-27 |
| Identification of genes regulated in response to Cu exposure in <i>Bassica nigra</i> L. | |
| 3. <i>Hüseyin ABDİK, Arya Lal ERKILINÇOĞLU, Fikrettin ŞAHİN</i> | 29-36 |
| Differentiated pre-adipocytes act as a driving force for prostate cancer proliferation, migration and epithelial-mesenchymal transition | |
| 4. <i>Emine Pınar PAKSUZ</i> | 37-42 |
| Hematology and plasma biochemistry of greater mouse-eared bat <i>Myotis myotis</i> (Borkhausen) (Chiroptera: Vespertilionidae) in Turkey | |
| 5. <i>Nazım SEKEROGLU, Gulfer CİMEN, Muhittin KULAK, Sevgi GEZİCİ</i> | 43-52 |
| Plastic mulching or conventional cultivation of lavender flower: What influence on the yield, essential oil and their neuroprotective effects? | |
| 6. <i>Neslihan TEKİN KARACAER</i> | 53-63 |
| <i>In vitro</i> and <i>in silico</i> evaluation of thymoquinone as potential anticancer agent in human acute myeloid leukemia HL-60 cells | |
| 7. <i>AsİYE UZUN YİĞİT, Ozan DEMİRÖZER</i> | 65-69 |
| Population fluctuations of <i>Haplothrips tritici</i> (Kurdjumov, 1912) (Thysanoptera: Phlaeothripidae) in wheat and barley fields in Isparta, Turkey | |
| 8. <i>Zeynep DANISMAN, Sule INAN, Esma OZSOY, Emre YÖRÜK, Tapanı YLI-MATTILA</i> | 71-79 |
| Terpinolene is an effective essential oil compound to protect <i>Hordeum vulgare</i> L. from <i>Fusarium avenaceum</i> (Fr.) Sacc. | |

9. *Abdulaziz AYKAL, Erdem SEVEN* **81-94**
The geometrid moths (Lepidoptera) of the ancient city Hasankeyf (Batman)
and a new species for the Turkish fauna
10. *Murat YILDIZ, Necip TOSUN* **95-111**
Molecular characterization of black foot disease pathogens in grapevine nurseries
and evaluation of some fungicides for control of the most virulent isolates