Prof. MİNE TÜRKTAŞ

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Education Information

Doctorate, Univeristat Für Bodenkultur Wien, Gıda Kimyası Ve Bioteknoloji, Austria 2004 - 2007
Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyoteknoloji Anabilim Dalı (Disiplinlerarası), Turkey 2001 - 2003
Undergraduate, Ankara University, Fen Fakültesi, Biyoloji Bölümü, Turkey 1995 - 2000

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Molecular mechanisms involved in heavy metal accumulation by Salix caprea, Univeristat Für Bodenkultur Wien, Gıda Kimyası Ve Bioteknoloji, 2007
Postgraduate, Investigations of wheat genes involved in zinc efficiency mechanism using differential display technique, Middle East Technical University, Analiz ve Fonksiyonlar Teorisi, Biyoteknoloji Anabilim Dalı (Disiplinlerarası), 1950

Research Areas

Life Sciences

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Biyoloji, 2022 - Continues
Associate Professor, Gazi University, Fen Fakültesi, Biyoloji, 2020 - Continues
Associate Professor, Cankiri Karatekin University, Faculty Of Scıence, Department Of Bıology, 2015 - 2020
Assistant Professor, Cankiri Karatekin University, Faculty Of Scıence, Department Of Bıology, 2012 - 2014

Academic and Administrative Experience

Academic and Administrative Experience

Cankiri Karatekin University, Fen Fakültesi, Biyoloji Bölümü, 2014 - 2016

Courses

Bioinformatics, Undergraduate, 2022 - 2023
Biotechnological Analysis Programs, Undergraduate, 2022 - 2023
Research Project, Undergraduate, 2021 - 2022
Bacterial Genetics, Undergraduate, 2021 - 2022
Genom Editing in Plant Biotechnology, Postgraduate, 2021 - 2022
Bioinformatics Analyses, Postgraduate, 2021 - 2022
Biotechnological Metabolites, Postgraduate, 2021 - 2022
MicroAlgal Biotechnology, Undergraduate, 2021 - 2022

Advising Theses

TÜRKTAŞ ERKEN M., Epigenetik düzenlemelerin afyon haşhaşı (Papaver somniferum L.) bitkisinde tebain yolağı üzerine etkilerinin belirlenmesi, Postgraduate, Z.AYDINLI(Student), 2020
TÜRKTAŞ ERKEN M., Farklı BIA içeriklerine sahip haşhaş çeşitlerinde üç farklı gen düzenleyici elementin (transkripsiyon faktörü, miRNA, transpozon) ifade analizleri, Postgraduate, R.BAŞ(Student), 2020
TÜRKTAŞ ERKEN M., Epigenetik düzenlemelerin haşhaş (papaver somniferum L.)bitkisinde morfin yolağı üzerine etkilerinin belirlenmesi, Postgraduate, B.BULUT(Student), 2020
TÜRKTAŞ ERKEN M., Yeni nesil dizileme teknolojisi ile zeytinin (Olea Europea L. cv. Ayvalık) pedisel dokusunun transkriptom dizilemesi, Postgraduate, Ü.TANMAN(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Small Warriors of Nature: Novel Red Emissive Chlorophyllin Carbon Dots Harnessing Fenton-Fueled Ferroptosis for In Vitro and In Vivo Cancer Treatment**
Kirbas Cilingir E., Besbinar O., Giro L., Bartoli M., Hueso J. L., Mintz K. J., Aydogan Y., Garber J. M., TÜRKTAŞ M., EKİM O., et al.
Small, 2024 (SCI-Expanded)

II. **2D MXenes with antiviral and immunomodulatory properties: A pilot study against SARS-CoV-2**
Unal M. A., Bayrakdar F., Fusco L., Besbinar O., Shuck C. E., Yalcin S., Erken M., Ozkul A., Gurcan C., Panatli O., et al.
Nano Today, vol.38, 2021 (SCI-Expanded)

III. **Adaptive Roles of Plant Development and Genome Structure Against Soil Composition**
Gürkök T., Dölarslan M., Gül E., Türktaş Erken M.
Fresenius Environmental Bulletin, vol.30, no.4, pp.4031-4042, 2021 (SCI-Expanded)

IV. **In silico prediction of type I PKS gene modules in nine lichenized fungi**
TÜRKTAŞ ERKEN M., CANSARAN DUMAN D., Tanman U.
BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT, vol.35, no.1, pp.376-383, 2021 (SCI-Expanded)

V. **Photocatalytically Active Graphitic Carbon Nitride as an Effective and Safe 2D Material for In Vitro and In Vivo Photodynamic Therapy**
Taheri H., Unal M. A., SEVİM M., Gurcan C., Ekim O., Ceylan A., Syrgiannis Z., Christoforidis K. C., Bosi S., Ozgenc O., et al.
SMALL, vol.16, no.10, 2020 (SCI-Expanded)

VI. **MSAP analysis reveals diverse epigenetic statuses in opium poppy varieties with different benzyisoquinoline alkaloid content**
Bulut B., Aydinli Z., Turktas-Erken M.

TURKISH JOURNAL OF BIOLOGY, vol.44, no.2, pp.103-109, 2020 (SCI-Expanded)

VII. **Genome of wild olive and the evolution of oil biosynthesis**
Unver T., Wu Z., Sterck L., Turktas M., Lohaus R., Li Z., Yang M., He L., Deng T., Javier Escalante F., et al.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.114, no.44, 2017 (SCI-Expanded)

VIII. **A phylogenetic perspective on the influence of ecological attributes on selected species of Astragalus**
Dolarslan M., Gul E., Acar E., Turktas M.
ECOSCIENCE, vol.24, pp.105-113, 2017 (SCI-Expanded)

IX. **TRANSCRIPTIONAL ACTIVITY OF RETROTRANSPOSONS IN OLIVE VARIETIES**
Tanman-Ziplar U., Turktas M.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.11, pp.6882-6890, 2017 (SCI-Expanded)

X. **Functional Characterization of 4 ' OMT and 7OMT Genes in BIA Biosynthesis**
Gurkok T., Ozhuner E., Parmaksiz I., Ozcan S., Turktas M., Ipek A., Demirtas I., OKAY S., Unver T.
FRONTIERS IN PLANT SCIENCE, vol.7, 2016 (SCI-Expanded)

XI. **Transcriptome analysis of wheat inoculated with Fusarium graminearum**
Erayman M., Turktas M., Akdogan G., Gurkok T., Inal B., Ishakoglu E., Ilhan E., Unver T.
FRONTIERS IN PLANT SCIENCE, vol.6, 2015 (SCI-Expanded)

XII. **Hexaploid wheat (Triticum aestivum) root miRNome analysis in response to salt stress**
Eren H., Pekmezci M. Y., OKAY S., Turktas M., Inal B., Ilhan E., Atak M., Erayman M., Unver T.
ANNALS OF APPLIED BIOLOGY, vol.167, no.2, pp.208-216, 2015 (SCI-Expanded)

XIII. **Transcriptome Profiling of Alkaloid Biosynthesis in Elicitor Induced Opium Poppy**
Gurkok T., Turktas M., Parmaksiz I., Unver T.
PLANT MOLECULAR BIOLOGY REPORTER, vol.33, no.3, pp.673-688, 2015 (SCI-Expanded)

XIV. **Regulation of the alkaloid biosynthesis by miRNA in opium poppy**
Boke H., Ozhuner E., Turktas M., Parmaksiz I., Ozcan S., Unver T.
PLANT BIOTECHNOLOGY JOURNAL, vol.13, no.3, pp.409-420, 2015 (SCI-Expanded)

XV. **Sequencing of plant genomes - a review**
Turktas M., Kurtoglu K. Y., Dorado G., Zhang B., Hernandez P., Unver T.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.39, no.3, pp.361-376, 2015 (SCI-Expanded)

XVI. **miR408 overexpression causes increased drought tolerance in chickpea**
Hajyzadeh M., Turktas M., Khawar K. M., Unver T.
GENE, vol.555, no.2, pp.186-193, 2015 (SCI-Expanded)

XVII. **Genome-wide fungal stress responsive miRNA expression in wheat**
Inal B., Turktas M., Eren H., Ilhan E., OKAY S., Atak M., Erayman M., Unver T.
PLANTA, vol.240, no.6, pp.1287-1298, 2014 (SCI-Expanded)

XVIII. **Use of fluorescent-based amplified fragment length polymorphism to resolve phylogenetic relationships of Colchicum species from Turkey**
Metin O. K., Turktas M., Ertugrul F., Kaya E.
GENETICS AND MOLECULAR RESEARCH, vol.13, no.1, pp.1480-1490, 2014 (SCI-Expanded)

XIX. **Proteome changes in wild and modern wheat leaves upon drought stress by two-dimensional electrophoresis and nanoLC-ESI-MS/MS**
Budak H., Akpinar B. A., Unver T., Turktas M.
PLANT MOLECULAR BIOLOGY, vol.83, pp.89-103, 2013 (SCI-Expanded)

XX. **Molecular phylogenetic analysis of Tulipa (Liliaceae) based on noncoding plastid and nuclear DNA sequences with an emphasis on Turkey**
Turktas M., Metin O. K., Bastug B., Ertugrul F., Sarac Y. I., Kaya E.
BOTANICAL JOURNAL OF THE LINNEAN SOCIETY, vol.172, no.3, pp.270-279, 2013 (SCI-Expanded)

XXI. **Expression of zinc and cadmium responsive genes in leaves of willow (Salix caprea L.) genotypes with different accumulation characteristics**
Konlechner C., Turktas M., Langer I., Vaculik M., Wenzel W. W., Puschenreiter M., Hauser M.

ENVIRONMENTAL POLLUTION, vol.178, pp.121-127, 2013 (SCI-Expanded)

XXII. **In Planta Evidence for the Involvement of a Ubiquitin Conjugating Enzyme (UBC E2 clade) in Negative Regulation of Disease Resistance**
Unver T., Turktas M., Budak H.
PLANT MOLECULAR BIOLOGY REPORTER, vol.31, no.2, pp.323-334, 2013 (SCI-Expanded)

XXIII. **Nutrition Metabolism Plays an Important Role in the Alternate Bearing of the Olive Tree (Olea europaea L.)**
Turktas M., Inal B., OKAY S., Erkilic E. G., Dundar E., Hernandez P., Dorado G., Unver T.
PLOS ONE, vol.8, no.3, 2013 (SCI-Expanded)

XXIV. **Evaluation of the genetic relationship between Fritillaria species from Turkey's flora using fluorescent-based AFLP**
Metin O. K., Turktas M., Aslay M., Kaya E.
TURKISH JOURNAL OF BIOLOGY, vol.37, no.3, pp.273-279, 2013 (SCI-Expanded)

XXV. **Genome-wide identification of alternate bearing-associated microRNAs (miRNAs) in olive (Olea europaea L.)**
Yanik H., Turktas M., Dundar E., Hernandez P., Dorado G., Unver T.
BMC PLANT BIOLOGY, vol.13, 2013 (SCI-Expanded)

XXVI. **Taxonomical investigations on two geophytes distributed in Turkey**
Metin O. K., Turktas M., Genisel H., Aslay M., Ertugrul F., Ogras T., Kaya E.
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)

XXVII. **Phylogenetic analysis of Turkish Iris species inferred from non-coding chloroplast region**
Bastug B., Turktas M., Ertugrul F., Metin O. K., ÖZCAN T., Ogras T., Kaya E.
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)

XXVIII. **Molecular characterization of phylogeneticrelationships in Fritillaria species inferred from chloroplast trnL-trnF sequences**
Turktas M., Aslay M., Kaya E., Ertugrul F.
TURKISH JOURNAL OF BIOLOGY, vol.36, no.5, pp.552-560, 2012 (SCI-Expanded)

XXIX. **Differentiation of metallicolous and non-metallicolous Salix caprea populations based on phenotypic characteristics and nuclear microsatellite (SSR) markers**
Puschenreiter M., Tuerktas M., Sommer P., Wieshammer G., Laaha G., Wenzel W. W., Hauser M.
PLANT CELL AND ENVIRONMENT, vol.33, no.10, pp.1641-1655, 2010 (SCI-Expanded)

Articles Published in Other Journals

I. **In silico Analyzes of miRNAs Associated with Root and Tuber in S. commersonii**
Koral A. Ö., Türktaş M.
Gazi University Journal of Science Part A: Engineering and Innovation, vol.9, no.3, pp.251-258, 2022 (Peer-Reviewed Journal)

II. **Identification and in silico Expression Analysis of Three Transcription Factors In The Wild Potato**
TÜRKTAŞ ERKEN M.
Journal of Crop Improvement, vol.34, pp.676-686, 2020 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **Alkaloid Pathway Analysis in Poppy with Proteomics**
Aykanat S., Türktaş M.
5. Ulusal Uygulamalı Biyolojik Bilimler Kongresi (UBBK), Adana, Turkey, 29 - 30 October 2022, pp.1-2

II. **Differentiation of bread wheat transcription factors against major abiotic stresses**
Akdogan G., Turktas M., Tufekci E. D., Unver T.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.75

Activities in Scientific Journals

TARIM BILIMLERI DERGISI, Committee Member, 2022 - Continues

Metrics

Publication: 34
Citation (WoS): 1060
Citation (Scopus): 1209
H-Index (WoS): 16
H-Index (Scopus): 17

Non Academic Experience

TÜBİTAK MAM Genetik Mühendisliği ve Biyoteknoloji Enstitüsü
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