

## Lect. PhD Hande MORGİL GERÇEK

### Personal Information

**Email:** hande.morgil@istanbul.edu.tr

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

**Address:** İstanbul Üniversitesi Fen Fakültesi Biyoloji Bölümü

### Education Information

Doctorate, İstanbul University, Institute Of Graduate Studies In Sciences, Fen Fakültesi Bölümü, Turkey 2014 - 2019

Postgraduate, İstanbul Üniversitesi, Institute of Graduate Studies In Sciences, Biyoloji/ Botanik Anabilim Dalı, Turkey 2010 - 2012

Masters (Non-Thesis), İstanbul Üniversitesi, Institute of Graduate Studies In Sciences, Biyoloji Öğretmenliği, Turkey 2009 - 2010

Undergraduate, İstanbul Üniversitesi, Faculty of Science, Biyoloji, Turkey 2005 - 2009

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, GMO and species testing with real-time PCR, Eurofins GeneScan, 2015

Foreign Language, English, Wall Street Institute, 2012

IT, Microsoft Office Programları, Bilişim Eğitim Merkezi, 2010

### Dissertations

Doctorate, Kuraklık Stresi Uygulanmış Mercimek (*Lens culinaris Medik.*) Bitkisinin RNA Dizileme Yöntemi ile Transkripsiyonel Analizi, İstanbul University, Faculty Of Science, Department Of Biology, 2019

Postgraduate, "Expression Analyses of ADP-Glucose Pyrophosphorylase in *Lens Culinaris Medik.* at the short-time period", İstanbul University, Institute of Graduate Studies In Sciences, Biyoloji/ Botanik Anabilim Dalı, 2012

### Research Areas

Life Sciences, Plant Biology, Plant Breeding and Genetics, Biochemistry, Bioinformatics, Biotechnology, Plant Biotechnology, Molecular Biology and Genetics, Plant Molecular Genetics, Natural Sciences

### Academic Titles / Tasks

Lecturer PhD, İstanbul University, Faculty Of Science, Department Of Biology, 2014 - Continues

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Transcriptome analysis of the circadian clock gene BMAL1 deletion with opposite carcinogenic effects**  
Emisoglu-Kulahli H., Gul Ş., Morgil H., Ozcan O., Aygenli F., Selvi S., Kavakli I. H. , Öztürk N.  
FUNCTIONAL & INTEGRATIVE GENOMICS, vol.21, no.1, pp.1-16, 2021 (Journal Indexed in SCI)
- II. **Comparative RNA-seq analysis of the drought-sensitive lentil (*Lens culinaris*) root and leaf under short- and long-term water deficits**  
Morgil H., Tardu M., Cevahir G., Kavakli I. H.  
FUNCTIONAL & INTEGRATIVE GENOMICS, vol.19, no.5, pp.715-727, 2019 (Journal Indexed in SCI)
- III. **Transcriptional regulation of the ADP-glucose pyrophosphorylase isoforms in the leaf and the stem under long and short photoperiod in lentil**  
Seferoglu A. B. , Baris I., Morgil H., Tulum I., Ozdas S., Cevahir G., Kavakli I. H.  
PLANT SCIENCE, vol.205, pp.29-37, 2013 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **ORGANOSULFUR COMPOUNDS OF ALLIUM TUNCELIANUM (KOLLMANN) OZHATAY, B.MATHEW & ŞIRANECI EXTRACTS BY SPME/GC-MS AND DETERMINING THEIR CYTOTOXIC EFFECT ON HELA CELLS**  
GERÇEK Y. C. , AKMAN G., MORGİL H., ÇALIŞKAN M., ÖZ G.  
International Journal of Advances in Science Engineering and Technology, vol.5, no.2, pp.53-58, 2017 (Refereed Journals of Other Institutions)
- II. **Investigation of the Mechanism of Physiological Tolerance in Lentil (*Lens culinaris* Medik.) Cultivars under Drought Stress Conditions**  
Çalışkan M., Öz G., Morgil Gerçek H., Gerçek Y. C.  
European Journal of Biology, pp.31-35, 2017 (International Refereed University Journal)
- III. **Investigation of Cytotoxic Effects of Some Novel Synthesized Iminothiazolidinone Derivatives on HeLa Cell Line (CCL2)**  
Tuğcu F., TOPÇUL M. R. , ÇETİN İ., ÜNLÜ Y. S. , GERÇEK Y. C. , MORGİL H., ÇALIŞKAN M., ÖZ G.  
IUFS JOURNAL OF BIOLOGY, vol.1, no.75, pp.15-33, 2016 (International Refereed University Journal)

## Books & Book Chapters

- I. **Single Nucleotide Polymorphisms (SNPs) in Plant Genetics and Breeding**  
Morgil H.  
in: The Recent Topics in Genetic Polymorphisms, Prof. Dr. Mahmut Çalışkan, Editor, IntechOpen Limited, London, pp.137-145, 2020

## Refereed Congress / Symposium Publications in Proceedings

- I. **Phytochemical Analysis of Turkish Prunus L., Subgenus Cerasus (Mill.) Focke Taxa**  
Gerçek Y. C. , Özyurt D., Morgil Gerçek H., Çiftçi A., Erol O., Öz G., Öztürk B.  
11th Aegean Analytical Chemistry Days (AACD2018), Hania, Greece, 25 - 29 September 2018, pp.1-2
- II. **The Main Active Ingredients of Propolis**  
Ecem Bayram ., Bayram S., GERÇEK Y. C. , MORGİL H., ÖZ G.  
2nd International Conference on Advanced Engineering Technologies (ICADET), Bayburt, Turkey, 21 - 23 September 2017, pp.1563-1564

- III. **DETERMINATION of ESSENTIAL OIL CONTENT of Thuja orientalis L. MATURE CONES BY GC-MS**  
GERÇEK Y. C. , Tuğcu F. T. , MORGİL H., ÖZ G.  
“29th International Symposium on the Chemistry of Natural Products and the 9th International Conference on Biodiversity” (ISCNP-29 & ICOB-9), İzmir, Turkey, 24 - 27 September 2016, pp.6
- IV. **ANALYSIS of ORGANOSULFUR COMPOUNDS of Allium tuncelianum (KOLLMANN) ÖZHATAY, B.MATHEW & SIRANECİ EXTRACTS with SPME-GC-MS and INVESTIGATION of THEIR CYTOTOXIC EFFECTS ON HELA CELLS**  
GERÇEK Y. C. , MORGİL H., ÖZ G.  
“29th International Symposium on the Chemistry of Natural Products and the 9th International Conference on Biodiversity” (ISCNP-29 & ICOB-9), İzmir, Turkey, 24 - 27 September 2016, pp.6
- V. **Molecular phylogeny of some Euphorbia species (Euphorbiaceae) implied from nrDNA and cpDNA markers from Turkey**  
ÖZ G., KÜÇÜKER O., MORGİL H., PATTERSON A.  
“International Conference Bioengineering and Biotechnology Congress, Barselona, Spain, 15 - 17 July 2015, vol.1, no.1, pp.1
- VI. **Molecular Phylogeny of Some Euphorbia Species (Euphorbiaceae) Implied from nrDNA and cpDNA Markers from Turkey**  
PATTERSON A., MORGİL H., KÜÇÜKER O., ÖZ G.  
The International Conference on Bioengineering and Biotechnology (ICBB), Barcelona, Spain, 13 - 17 July 2015, pp.1

## Supported Projects

- MORGİL GERÇEK H., Project Supported by Higher Education Institutions, Kuraklık stresi uygulanmış *Medicago truncatula* bitkisinde strigolakton hormon sinyalleme sinin transkripsiyonel analizi, 2021 - Continues
- MORGİL GERÇEK H., KAVAKLI İ. H. , Project Supported by Higher Education Institutions, *Cyanidioschyzon merolae* alginde bitki benzeri kriptokrom gen yolaklarının Crispr Cas9 yöntemi ile susturularak global gen ifadelerinin belirlenmesi, 2020 - Continues
- ÇALIŞKAN M., MORGİL H., TOYDEMİR G., ÇAPANOĞLU GÜVEN E., ÖZ G., GERÇEK Y. C. , KARAMAN K., Project Supported by Higher Education Institutions, Giresun ve Çevresinde Yayılış Gösteren Kiraz Gen Kaynaklarının Fitokimyasal Analizleri Antioksidan Aktivitelerinin Tayin Edilmesi ve İn Vitro Biyoyararlılığının İncelenmesi, 2019 - Continues
- EROL O., ELDEM V., ÖZ G., GERÇEK Y. C. , GEMİCİOĞLU A., MORGİL H., Project Supported by Higher Education Institutions, Çalı ve ağaçsı *Cerasus sensu Browicz* taksonlarının RADSeq yöntemiyle genom düzeyinde SNP profiline dayalı olarak genotiplendirilmesi ve filogenetik analizleri, 2018 - Continues
- Morgil Gerçek H., Öz G., Tulum I., TUBITAK Project, Development of Genome-Based Strategies for Detection, Identification and Controlling Plant Pathogenic Phytoplasmas, 2019 - 2022
- ÖZ G., GERÇEK Y. C. , MORGİL H., BAYRAM S., CANLI D., ECEM BAYRAM N., Project Supported by Higher Education Institutions, Türkiyenin farklı bölgelerinde üretilen bazı monofloral balların mineral içerik uçucu bileşen ve antimikrobiyal aktivitelerinin incelenmesi, 2018 - 2020
- ÖZ G., AVŞAR E. N. , MORGİL H., Project Supported by Higher Education Institutions, *Oryza sativa* bitkisinde iki farklı ses türüne karşı serotonin miktarının gen ekspresyonu düzeyinde belirlenmesi, 2018 - 2019
- ÖZ G., HASOĞLU İ., MORGİL H., Project Supported by Higher Education Institutions, Farklı hormon uygulaması ile in vitro yetiştirilmiş *Origanium vulgare* bitkisinden elde edilen kalluslarda eksozom miktarlarının karşılaştırılması, 2018 - 2019
- ÖZ G., ÇALIŞKAN M., MORGİL H., GERÇEK Y. C. , KAVAKLI H., Project Supported by Higher Education Institutions, Kuraklık Stresi Altında Yetiştirilen *Mercimek Lens culinaris* Medik Bitkisinde Transkriptom (RNA-sek) Analizi, 2016 - 2018
- ÖZ G., GERÇEK Y. C. , ÜNLÜ Y. S. , HAKAVLI H., MORGİL H., Project Supported by Higher Education Institutions, Etil Metansulfonat (EMS) Mutantı *Chlorella vulgaris*'in Biyoreaktörde Yetiştirilmesi, Gelişimi ve Yağ Asidi İçeriğinin Araştırılması, 2016 - 2017

## **Edit Congress and Symposium Activities**

International Conference on Bioengineering and Biotechnology (ICBB), Attendee, Barcelona, Spain, 2015

Ulusal Botanik Kongresi, Attendee, Antalya, Turkey, 2014

FEBS EMBO 2014, Attendee, Paris, France, 2014

## **Citations**

Total Citations (WOS):15

h-index (WOS):2