

## Prof. SERTAÇ ÖNDE

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-9165-2020

ScopusID: 16646519500

Yoksis Researcher ID: 109598

### Education Information

Doctorate, University of Leeds, Department Of Genetics, United Kingdom 1988 - 1992

Postgraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 1986 - 1988

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 1982 - 1986

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Functional Analysis of the "Em" Gene Promoter of Triticum aestivum L., University of Leeds, Department Of Genetics, 1992

Postgraduate, Spatial autocorrelation analysis on gene frequencies of blood groups in Turkey., Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1988

### Research Areas

Tissue and Organ Culture, Molecular Biotechnology, Genetic Engineering

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2016 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1994 - 2016

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1994 - 1994

Lecturer PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1993 - 1993

## Academic and Administrative Experience

Deputy Head of Department, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2014 - 2018

Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2006 - 2009

Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2002 - 2003

Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1996 - 1997

## Courses

Bioethics and Research Methods, Postgraduate, 2018 - 2019

## Advising Theses

ÖNDE S., KAYA Z., Characterization of taxonomically related some Turkish oak (*Quercus* L.) species in an isolated stand: A morphometric analysis approach, Postgraduate, C.AKTAŞ(Student), 2010

ÖNDE S., The effect of ploidy level on plant regeneration in sugar beet (*Beta vulgaris* L.), Postgraduate, Y.PARASTOUK(Student), 2006

ÖNDE S., KAYA Z., Induction of embryogenic tissue from immature zygotic embryos in *Pinus nigra* subspecies *pallasiana* LAMB., Postgraduate, Z.ÖZKURT(Student), 2006

ÖNDE S., The effects of thidiazuron on callus development and organogenesis from mature embryos of selected Turkish bread and durum wheat varieties, Postgraduate, N.YAQUBOV(Student), 2004

ÖNDE S., Marker gene transfer to sunflower (*Helianthus annuus* L.) via particle bombardment, Postgraduate, C.DENİZ(Student), 2003

ÖNDE S., Marker gene transfer to durum wheat (*Triticum durum* Desf.) by microprojectile bombardment method, Postgraduate, B.SOĞUTMAZ(Student), 2003

KAYA Z., ÖNDE S., Genetic and physiology of cold and drought resistance in Turkish red pine (*Pinus brutia*, Ten.) populations from southern Turkey, Doctorate, G.Eren(Student), 2002

ÖNDE S., KAYA Z., Genetics a physiology of cold and drought resistance in Turkish red pine populations from Southern Turkey, Doctorate, G.KANDEMİR(Student), 2002

ÖNDE S., KAYA Z., Genetic composition of *Pinus brutia* ten. forests established with seeds from seed stands and orchards determined by using DNA markers, Doctorate, Y.İÇGEN(Student), 2002

KAYA Z., ÖNDE S., The Pattern of genetic variation of *pinus brutia* ten populations from southern Turkey determined by nuclear SSR markers, Postgraduate, E.S.(Student), 2001

KAYA Z., ÖNDE S., The pattern of genetic variation of *pinus brutia* ten populations from Southern Turkey determined by nuclear SSR markers., Postgraduate, E.S.(Student), 2001

KAYA Z., ÖNDE S., The genetic structure of *Cedrus Libani* A. rich populations determined by DNA markers, Postgraduate, G.Ceren(Student), 2000

ÖNDE S., KAYA Z., The Impact of anthropogenic factors on the composition of genetic variation on *pinus brutia* ten. populations determined by DNA markers, Postgraduate, Y.LİSE(Student), 2000

ÖNDE S., KAYA Z., The Genetic structure of *cedrus libani* A. rich populations dekermined by DNA markers, Postgraduate, G.CEREN(Student), 2000

ÖNDE S., Growth and development of sunflower (*Helianthus annuus* l.) in vitro, Postgraduate, Ö.CEM(Student), 1999

ÖNDE S., Marker gene transfer to opium poppy (*Papaver somniferum* L.), Postgraduate, U.UZAY(Student), 1998

KAYA Z., ÖNDE S., Effects of land use practices on steppe plant biodiversity: implications for in situ conservation, Postgraduate, U.Zeydanlı(Student), 1998

KAYA Z., ÖNDE S., The Patterns of genetic variation in *Pinus Brutia* Ten (Turkish Red Pine) seed stands: implications or in situ conservation, Postgraduate, H.Özer(Student), 1997

KAYA Z., ÖNDE S., Interactions between exogenously applied polyamines and salt tolerance of crop and tree species,

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

- I. **Population variation in drought resistance and its relationship with adaptive and physiological seedling traits in Turkish red pine (*Pinus brutia* Ten.)**  
Kandemir G., Onde S., TEMEL F., KAYA Z.  
TURKISH JOURNAL OF BIOLOGY, vol.41, no.2, pp.256-267, 2017 (SCI-Expanded)
- II. **MOLECULAR PHYLOGENY OF TRITICUM AND AEGILOPS GENERA BASED ON ITS AND MATK SEQUENCE DATA**  
Dizkırıcı A., Kansu C., ÖNDE S.  
PAKISTAN JOURNAL OF BOTANY, vol.48, no.1, pp.143-153, 2016 (SCI-Expanded)
- III. **Phylogeny of cultivated and wild wheat species using ATR-FTIR spectroscopy**  
Demir P., ÖNDE S., Severcan F.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.135, pp.757-763, 2015 (SCI-Expanded)
- IV. **Phylogenetic relationships among *Triticum* L. and *Aegilops* L. species as genome progenitors of bread wheat based on sequence diversity in trnT-F region of chloroplast DNA**  
Dizkırıcı A., Kansu C., ÖNDE S., AVCI BİRSİN M., Ozgen M., KAYA Z.  
GENETIC RESOURCES AND CROP EVOLUTION, vol.60, no.8, pp.2227-2240, 2013 (SCI-Expanded)
- V. **Analysis of ancient DNA from in vitro grown tissues of 1600-year-old seeds revealed the species as *Anagyris foetida***  
Ozgen M., Ozdilek A., BİRSİN M. A., ÖNDE S., ŞAHİN D., AÇIKGÖZ E., KAYA Z.  
SEED SCIENCE RESEARCH, vol.22, no.4, pp.279-286, 2012 (SCI-Expanded)
- VI. **Improved in vitro micropropagation method with adventitious corms and roots for endangered saffron**  
Zeybek E., ÖNDE S., KAYA Z.  
CENTRAL EUROPEAN JOURNAL OF BIOLOGY, vol.7, no.1, pp.138-145, 2012 (SCI-Expanded)
- VII. **Indirect organogenesis from bud explants of *Juniperus communis* L.: Effects of genotype, gender, sampling time and growth regulator combinations**  
KOCER Z. A., GÖZEN A. G., ÖNDE S., KAYA Z.  
DENDROBIOLOGY, vol.66, pp.33-40, 2011 (SCI-Expanded)
- VIII. **Genetic Variation in Cold Hardiness and Phenology Between and Within Turkish Red Pine (*Pinus brutia* Ten.) Populations: Implications for Seed Transfer**  
Kandemir G., KAYA Z., TEMEL F., ÖNDE S.  
SILVAE GENETICA, vol.59, pp.49-57, 2010 (SCI-Expanded)
- IX. **Genetic Variation in Cold Hardiness and Phenology Between and Within Turkish Red Pine (*Pinus brutia* Ten.) Populations: Implications for Seed Transfer**  
Kandemir G. E., KAYA Z., Temel F., ÖNDE S.  
SILVAE GENETICA, vol.59, pp.49-57, 2010 (SCI-Expanded)
- X. **The phylogenetic relationship between populations of marginally and sympatrically located *Pinus halepensis* Mill. and *Pinus brutia* Ten. in Turkey, based on the ITS-2 region**  
Tozkar C. O., ÖNDE S., KAYA Z.  
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.33, no.4, pp.363-373, 2009 (SCI-Expanded)
- XI. **Impact of food concentration on diel vertical migration behaviour of *Daphnia pulex* under fish predation risk**  
Beklioğlu M., Gözen A. G., Yildirim F., Zorlu P., Önde S.  
HYDROBIOLOGIA, vol.614, pp.321-327, 2008 (SCI-Expanded)
- XII. **Induction of embryogenic tissue from immature zygotic embryos in *Pinus nigra* J.F. Arnold subsp. *nigra* var. *caramanica* (Loudon) Businsky**

Özkurt Z., Yildirim T., ÖNDE S., KAYA Z.

Turkish Journal of Botany, vol.32, no.3, pp.179-183, 2008 (SCI-Expanded)

**XIII. Microsatellite SSR variation in Barley germplasm and its potential use for marker assisted selection in scald resistance breeding**

DİZKIRICI A., Özcan H. E., ÖNDE S., TEMEL F., AKAR T., BUDAK H., KAYA Z.

Omic-A Journal Of Integrative Biology, vol.4, pp.9-15, 2008 (SCI-Expanded)

**XIV. The impact of over-exploitation on the genetic structure of Turkish red pine (Pinus brutia Ten.) populations determined by RAPD markers**

Lise Y., Kaya Z., Isik F., Sabuncu R., Kandemir I., Onde S.

SILVA FENNICA, vol.41, no.2, pp.211-220, 2007 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

**I. Taxonomic revision of six Astragalus sections that native to Turkey based on non-coding trn regions of cpDNA**

ATEŞ M. A., KARAMAN ERKUL S., ÖNDE S., AYTAÇ Z., KAYA Z.

The 3rd International Symposium on Euroasian Biodiversity, Minsk, Belarus, 05 July 2017 - 08 January 2018

**II. Phylogenetic relationship of six Astragalus sections based on ITS (Internal Transcribed Spacer) regions of genomic DNA**

ATEŞ M. A., KARAMAN ERKUL S., ÖNDE S., AYTAÇ Z., KAYA Z.

. International Symposium on Biodiversity and Edible Wild Species (BEWS2017), Antalya, Turkey, 3 - 05 April 2017

**III. Phylogenetic Relationship Of Scrophularia Species In Turkey Based On Non Coding trn Regions and matK Gene Region Of Chloroplast Genome**

ATEŞ M. A., UZUNHİSARCIKLI M. E., DOĞAN GÜNER E., ÖNDE S., EKİCİ M., KAYA Z.

Plant Biology Europe EPSO/FESPB 2016 Congress, Prag, Czech Republic, 26 - 30 June 2016

**IV. Phylogenetic differentiation of Aegilops and Triticum species by using ATR-FTIR spectroscopy**

Demir P., ÖNDE S., Ozgen M., AVCI BİRSİN M., SEVERCAN F.

Eurobiotech Agriculture Symposium, Kayseri, Turkey, 12 - 14 April 2012, vol.161, pp.32

## Supported Projects

GÖZEN A. G., UYANIK G., UYANIK T., ÖNDE S., Project Supported by Higher Education Institutions, Gümüşe Dirençli Escherichia coli MutantlarındaTransport Protein gen ifadelerinin RT-qPCR ile saptanması, 2018 - 2020

SON Ç. D., ZABCI S., İZGÜ K. F., ATAY Ö., DOĞAN M., YANIK T., KOCABIYIK S., ÖNDE S., Project Supported by Higher Education Institutions, G-alpha (i) proteinlerinin homodimerizasyonunun canlı hücrelerde tespiti, 2018 - 2019

GÖZEN A. G., BEKLİOĞLU M., KEPENEK E. Ş., İZGÜ K. F., GÜNDÜZ U., GÜRSEL M., DOĞAN M., ÖZCENGİZ G., BİLGİN C. C., ÖNDE S., Project Supported by Higher Education Institutions, Kurşun ve Kadmiyum Ağır Metallerinin Yüksek Derişimlerine alıştırılmış Çevresel Bakterilerde Maruziyet Altındaki Fizyolojik Uyumlamanın Moleküler Kökenleri, 2016 - 2016

GÖZEN A. G., BEKLİOĞLU M., İZGÜ K. F., GÜRSEL M., DOĞAN M., ÖZCENGİZ G., BİLGİN C. C., ÖNDE S., Project Supported by Higher Education Institutions, Tatlısu Acinetobacter türlerinin antibiyotik maruziyeti altında sergiledikleri moleküler deęişimlerin belirlenmesi, 2015 - 2015

GÖZEN A. G., ÖKTEM H. A., BUCAK T., COPPENS J. E. P., KALVENAS J. E., İZGÜ K. F., BEKLİOĞLU M., BİRAND ÖZSOY A. C., GÜNDÜZ U., GÜRSEL M., et al., Project Supported by Higher Education Institutions, Sucul biofilm bakterilerinin arsenik, nikel ve kadmiyum dirençlerinin belirlenmesi ve moleküler karakterizasyonu, 2013 - 2014

ÖNDE S., Project Supported by Higher Education Institutions, Triticum Ve Aegilops Türlerinin Filogenetik Yapısının Pcr Ve Ftr Spektroskopisi Yöntemleriyle Belirlenmesi, 2012 - 2012

## **Metrics**

Publication: 18

Citation (WoS): 136

Citation (Scopus): 146

H-Index (WoS): 7

H-Index (Scopus): 8

## **Invited Talks**

Young Biologists public seminar, Conference, Middle East Technical University, Turkey, September 2021