

CURRICULUM VITAE



*Prof. Dr. Ahu
ALTINKUT UNCUOĞLU*

CURRENT POSITION

Professor, Marmara University, Faculty of Engineering, Department of Bioengineering

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EDUCATION

PhD: TUBITAK Marmara Research Center, Genetic Engineering and Biotechnology Institute and Colorado State University, Department of Soil and Crop Sciences, CO, USA, (2001, Istanbul University, Science Institute, Molecular Biology and Genetics Program).

MSc: Istanbul University, Science Faculty, Department of Molecular Biology and Genetics, (1996, Istanbul University, Science Institute, Molecular Biology and Genetics Program).

BSc: Istanbul University, Science Faculty, Department of Biology, 1994.

EMPLOYMENT

2017- **Vice Dean**, Marmara University Faculty of Engineering.

2017- **Director**, Marmara University Innovation and Technology Transfer Application and

Research Center.

2017- **Board Member**, Marmara University Center for Regional Development (MACRED).

2017- **Senator of Engineering Faculty**

2016- 2017 **Coordinator**, Marmara University Innovation and Technology Transfer Office.

2015 **Member**, Marmara University Member of Strategy Commission.

2014- **Professor**, Marmara University, Faculty of Engineering, Department of Bioengineering.

2013-2015 **Board Member**, Marmara University Environmental Issues Research and Implementation Center.

2012-2016 **Board Member**, Marmara University Innovation and Technology Transfer Office (MITTO).

2011 - 2014 **Associate Professor**, Marmara University, Faculty of Engineering, Department of Bioengineering.

2008 - 2011 **Vice Director**, TUBITAK Marmara Research Center, Genetic Engineering and Biotechnology Institute.

2008 **Associate Professor**, TUBITAK Marmara Research Center, Genetic Engineering and Biotechnology Institute.

2007 - 2008 **Chief Research Scientist**, TUBITAK Marmara Research Center, Genetic Engineering and Biotechnology Institute.

2005 - 2007 **Senior Research Scientist**, TUBITAK Marmara Research Center, Genetic Engineering and Biotechnology Institute.

2005 - 2006 **Part time Faculty Member**, Sabancı University, Faculty of Engineering and Natural Sciences.

2004 - 2005 **Research Associate**, (12 months), Colorado State University, Department of Soil and Crop Sciences, CO, USA.

2003 - 2004 **Post-doctoral Scientist**, (18 months), Haifa University, Institute of Evolution, Israel.

1996 - 2005 **Research Scientist**, TUBITAK Marmara Research Center, Genetic Engineering and Biotechnology Institute.

AWARDS/FELLOWSHIPS/DISTINCTIONS

2010 **Project Award**, Category A, TUBITAK Marmara Research Center, (*For defining DNA markers diagnostic for wheat yellow rust resistant genotypes in the frame of TUBITAK 1007 Project titled "Identification of DNA Markers Genetically Linked with Yellow Rust Resistance in Wheat", 2006-2010*).

2008 **Project Award**, Category B, TUBITAK Marmara Research Center, (*For obtaining differentially expressed transcripts for drought tolerance in Aegilops tauschii in the frame of TUBITAK 1001 Project titled "Physiological and Molecular Analysis of Aegilops tauschii in Response to Salt Tolerance for Identification of New Gene Resources", 2005-2008*).

2004 - 2006 **Senior Researcher**, in the Institute of Evolution, University of Haifa, Israel.

2003 **Post-doctoral Fellowship**, University of Haifa, Research Authority, (*7500 USD for conducting studies on molecular cytogenetic studies for transposable elements in wild species of wheat and barley for 6 months*).

2003 **Vavilov Frankel Fellowship**, International Plant Genetic Research Institute, (*20.000 USD for*

conducting work on structural and functional studies of drought tolerance genes in Triticeae at Haifa University, Institute of Evolution, Haifa, Israel for 6 months. Being as a first Turkish scientist for having this fellowship).

2003 UNESCO-L'oreal Young Women in Science, UNESCO-L'oreal, (20.000 USD for conducting studies on cloning and characterisation of drought tolerance genes in Triticeae at Haifa University, Institute of Evolution, Haifa, Israel for one year. Being as a first Turkish scientist for having this fellowship representative for Europe and North America Region).

1999 World Bank-MRC Fellowship, TUBITAK Marmara Research Center, (25.000 USD for conducting studies on mapping plant genes at Colorado State University, CO, USA for one year).

PATENTS

PCT Application: A Solar Energy System Allowing the Spread of The Unit of Light Beam to A Larger Receiver Surface in The Same Unit Area.

The invention is characterised by a reflecting or bending element that directs the incident light beam by reflecting or bending it toward a surface which is larger than the installation ground area; solar panles are positioned at the point where the reflected or bent incident beam falls).

Application number: PCT/TR2016/050069

RESEARCH INTERESTS and SPECIALISATION

- Biotic (plant diseases) and abiotic (drought and salt stresses) stress tolerance in crops at molecular level.
- Molecular breeding, Marker Assisted Selection (MAS) studies in plant breeding.
- Plant tissue culture and haploid plant production.
- Association mapping and DNA barcoding studies in plants, understanding plant biodiversity at molecular level.
- Techology transfer and university-industry relations in biotechnology area.

FUTURE RESEARCH TARGETS

Performing multi-disciplinary and target oriented research in collaboration with academic and industrial partners in agriculture:

- Use of nanomaterials of used as an antimicrobial agent in environmental fields by plant in vitro culture techniques.
- Nano array based gene technologies for gene expression in plants under stress conditions.
- High throughput DNA sequencing in plants especially economically important and strategic crops, endemic and endangered species and nano-fabricated gel-free systems.

RESEARCH PROJECTS

Projects in the Area of Scientific Expertise

2018-2021 *Partner and Advisor*

Development of High-Medium Oleic Acid and Abiotic and Biotic Stress Resistant Sunflower Lines and Cultivars by Conventional Breeding Strategies and Marker Assisted Selection. **Turkish Ministry of Food, Agriculture and Livestock, General Directorate of Agricultural Research and Policies Funding Program**, 207.420 USD.

-Identification of SNP markers in combination with KASP assay for determination downy mildew resistant and high oleic type of lines and cultivars.

2017 – 2018 *Project leader*

Molecular Phylogeny of Pistacia Genus by Single Nucleotide Polymorphism. **Marmara University Research Foundation**, 4.150 USD.

2017 – 2018 *Project leader*

Flow Cytometric Investigations of Cellular Parameters in Living Systems: Applications in Plants. **Marmara University Research Foundation**, 70.000 USD.

-Determination of the purity of the cellular DNA contents in the sunflower genotypes which are thought to be haploid.

-Identification of species by determining the nuclear DNA content of Colchicum candidate species.

-Providing test analysis/research services on circulating capital and to open for use by university and public/private sector institutions and organizations.

2017 – 2018 *Project leader*

Molecular Phylogeny of Pistacia Genus by Single Nucleotide Polymorphism, **Marmara University Research Foundation**, 5600 USD.

-Determination of eight different Pistacia species (P. atlantica Desf, P. integrima, P. khinjuk Stocks, P. chinensis, P. palaestina Boiss, P. terebinthus L.subsp. terebinthus, P. vera L. and P. mutica) by SNP variations in combination with KASP assay.

2017 – 2018 *Project leader*

Molecular Characterisation of Sunflower Broomrape (*Orobanche cumana* Wallr.) Gene Pool, **Marmara University Research Foundation**, 5600 USD.

-Competitive Allele Specific PCR (KASP) assay optimization of sunflower broomrape germplasm by SNP markers.

2016 - 2019 *Advisor*

Development of Somatic Embryogenesis, Cryopreservation and Synthetic Seed Production Protocols in Some Endemic Colchicum Species. **TUBITAK 1001 Project**, 100.000 USD.

-Establishment of protocols for somatic embryogenesis, cryopreservation and synthetic seed production protocols in endemic Colchicum species collected different regions of Turkey.

2016 - 2017 *Advisor*

Identification of Race Composition of Sunflower Broomrape (*Orobanche cumana* Wallr.) in the Thrace Region of Turkey. **TUBITAK BIDEB 2216 Research Fellowship Program** For International Researchers, 8500 USD.

-Having a post-doc from Tunisia (Dr. Sana Ziadi) for one year to perform studies on evaluation of Orobanche cumana races collected from Thrace region of Turkey at molecular level.

2015 - 2018 Researcher

Development of Double Haploid Sunflower (*Helianthus annuus* L.) Lines for Herbicide Resistance and Their Use in Breeding Programs, **TUBITAK 1001 Project**, 100.000 USD.

- Establishment of anther and microspor cultures for haploid sunflower genotypes resistant to herbicide.
- Optimization of pretreatments for induction of embryogenic callus formation and regeneration.
- Application of radiation (Co) of sunflower polens, emasculation and embryo rescue.

2016 - 2017 Project leader

Biochemical and Molecular Analysis of Response to in vitro Conditions in Sunflower (*Helianthus annuus* L.), **Marmara University Research Foundation**, 4200 USD.

- Searching changes during anther culturing period of sunflower at biochemical (enzymatic analyses) and molecular (COMET analysis).

2016 - 2017 Advisor

Identification of Downy Mildew Resistance in Sunflower (*Helianthus annuus* L.) by DNA Markers and Optimisation of Competitive Allele Specific PCR (KASP). **TUBITAK BIDEB 2241A (2209 B)**, Industry Oriented Undergraduate Thesis Support Program, 990 USD.

- Graduation thesis on evaluation of *Orobanche cumana* races collected from Thrace region of Turkey by single nucleotide polymorphism (SNP) markers and optimisation of Competitive Allele Specific PCR (KASP) assay.

2015 - 2016 Project leader

Generation of Species-specific DNA barcodes in *Colchicum* L. Gen Pool belong to Turkish Flora. **TUBITAK 1002 Project**, 2015-2016, 8400 USD.

- Performing multi-marker DNA barcoding analyses (*rbcL*, *matK* and *trnH-psbA* chloroplast genes were chosen which were suggested by CBOL).
- The Consortium for the Barcode of Life Plant Working Group) on 49 species, including a total of 168 *Colchicum* populations belong to Turkey's flora.

2015 - 2018 Project partner and advisor

Development of Sunflower Hybrid and Parental Half-life Breeding Materials Containing High-Oleic / Medium-Oleic / Linoleic Acid Resistant to Downy Mildew. **TUBITAK TEYDEB 1501 Project**, 225.000 USD.

- Conducting PCR-based molecular marker analyses for downy mildew resistant genes *PI6*, *PI8*, *PI13*, *Plarg* as well as genes for high-oleic content to select suitable sunflower parental genotypes for breeding efforts.

2014 - 2016 Project leader

Investigation of Fungal Resistance in Sunflower (*Helianthus annuus* L.) 's with Biotechnological Methods. **Marmara University Research Foundation**, 14.000 USD.

- Development of molecular strategies to combat with downy mildew disease in sunflower by using diagnostic DNA markers.

2014 - 2015 Advisor

Structural and Functional Analysis of *Moco Sulfurase* Gene Under Various Stress Conditions in Barley Plants. **TUBITAK BIDEB 2209 A University Student Support Program** for Domestic-Overseas Research Projects, 2015, 700 USD.

-Performing DNA sequencing analysis on Moco sulfurase gene which is one of the major gene in the last step of abscisic acid (ABA) pathway in different barley genotypes and also expressional profile of moco sulfurase under shock stress by quantitative real time PCR.

2014 - 2015 Advisor

Structural and Functional Analysis of Yellow Rust Resistance Gene *Yr10* in Wheat Gene Pool. **TUBITAK BIDEB 2209 A University Student Support Program** for Domestic-Overseas Research Projects, 700 USD.

-Conducting DNA sequencing analysis on Yr10 gene in different wheat genotypes and also endogenous expressional profile of moco sulfurase by quantitative real time PCR.

2014 - 2015 Advisor

Determination of Resistance to Sunflower's (*Helianthus annuus*) Mildew Disease by Molecular Markers. **TUBITAK BIDEB 2241B Industry Oriented Undergraduate Thesis Support Program**, 2014, 990 USD.

-Marker assisted selection studies to find out genetically linked molecular markers for Plarg gene for downy mildew resistance in sunflower.

2014 - 2015 Project leader

Identification of Wild Gum Tree (*Pistacia lentiscus* L.) Gene Pool with SSR and ITS Markers. **Marmara University Research Foundation**, 2800 USD.

-Construction of phylogenetic tree of Pistacia lentiscus female and male genotypes based on SSR and ITS markers to understand genetic variability in the species.

2012 - 2015 Project leader

Identification of Core DNA Content, Morphological Parameters and Association Mapping of *Colchicum* L. Species in Turkey Flora. **TUBITAK 1001 Project**, 100.000 USD.

- Analyses on 49 species, and 16 species candidates including a total of 168 Colchicum populations;*
- Assesment of 38 morphological parameters for proper technical characteristics certificate to The International Union for the Protection of New Varieties of Plants (UPOV)*
- Flow cytometric analyses of core DNA content*
- The genome-wide association mapping conducted within by AFLP, RAPD and chloroplast trnL-trnF region genome-specific markers.*

2012 - 2014 Project leader

Association Mapping of Identifying Gene Levels of Descriptive Morphological Features of *Colchicum* L. Species and Calculation of Intracellular LD Dimensions. **Marmara University Research Foundation**, 5600 USD.

-Candidate gene-based approach for association mapping for descriptive morphological features of Colchicum L. species and calculation of intracellular LD dimensions.

2012 - 2014 Project leader

Molecular Characterization of *Colchicum* L. Species in Turkish Flora and Mapping of Association at Morphological Data and Genome Level. **Marmara University Research Foundation**, 5600 USD.

-Phylogenetic relations between 49 Colchicum species including 168 populations from flora of Turkey. Four different neighbor joining cladograms were constituted accordance to the Random Amplified Polymorphic DNA (RAPD), Inter Simple Sequence Repeats (ISSR), Amplified Fragment Length Polymorphism (AFLP) markers.

2012 - 2014 Project leader

Determination of Genetic Diversity in Yellow -Resistant Wheat (*Triticum aestivum* L.) Gene Pool and Gene Expression Analyzes. **Marmara University Research Foundation**, 2800 USD.

-Characterisation of wheat gene pool at structural (by PCR-based markers) and functional (by quantitative gene expression analysis).

2012 - 2013 Project leader

Phylogenetic Analysis of Colchicum L. Species with Markers Specific to Chloroplast Genome, 2012-2013, **Marmara University Research Foundation**, 2800 USD.

-Characterication of non-coding trnT-trnL-trnF regions of chloroplast genome for Colchicum L. genotypes, collected from seven regions of Turkey.

2012-2013 Project leader

Functional Analysis by Q-PCR in Yellow Rust Resistance Geni *Yr10* Wheat (*Triticum aestivum* L.). **Marmara University Research Foundation**, 11.200 USD.

-Working quantitative gene expression profile of Yr10 gene under drought and salt stresses in contrast wheat genotypes regarding to yellow rust resistance.

2012 - 2013 Advisor

Identification of Colchicum L. Species in the Flora of Turkey via Nuclear DNA Content, Morphological Parameters and Association Mapping. **TUBITAK BIDEB 2216 Research Fellowship Program For International Researchers**, 8500 USD.

-Having a post-doc from India (Dr. Sandeep Kumar Verma) for one year to perform genome wide association mapping for morphological traits.

2010 - 2011 Project leader

Cultivation of Turkish Geophytes and Gaining of New Species and Cultivars to the Sector. **TUBITAK 1007 Project**, 190.000 USD.

-Molecular analyses to charcaterise geophyte gene pool collected from Turkey by different type of DNA markers.

2008 - 2009 Researcher

Investigations of DNA Methylation Polymorphism in Yellow Rust Resistant and Susceptible Bread Wheat Genotypes. **Marmara University Research Foundation**, 2000 USD.

-CRED-RA analysis for characterisation in yellow rust resistant and susceptible bread wheat genotypes.

2008 - 2009 Researcher

Comparison of Yellow Rust Resistant and Susceptible Bread Wheat Genotypes by Molecular Markers in Gene-Rich Regions. **Marmara University Research Foundation**, 2100 USD.

-Analysis of gene-rich regions of yellow rust resistant and susceptible bread wheat genotypes by PCR-based markers.

2006 - 2010 Project leader

Development of Molecular Markers Genetically Linked Yellow Rust Resistance in Winter Type Bread Wheat. **TUBITAK 1007 Project**, 280.000 USD.

- Preparation of wheat germplasm for yellow rust resistance.
- Crosses for obtaining mapping population for yellow rust resistance.
- Inoculum preparation and storage of yellow rust fungus (*Puccinia striiformis* ssp).
- Disease screening tests in greenhouse and field.
- Identification of PCR based molecular markers linked with yellow rust resistant genes.

2006 - 2009 Researcher

Strengthening Scientific and Technical Research Capacity of TUBITAK Gene Engineering and Biotechnology Research Institute in Functional Genomic Field. **TUBITAK 1001 Project**, 140.000 USD.

- Gaining infrastructure for functional genomic studies on plant, mammalian, animal and industrial biotechnological studies. Organising training courses for young scientists to increase their experience to use structural and functional genomic tools in different disciplines of biotechnology.

2005 - 2008 Project leader

Characterisation of New Gene Resources for Salt Tolerance in *Aegilops tauschii* at Physiological and Molecular Level. **TUBITAK 1001 Project** (in collaboration with Sabancı University, Prof. Ismail Çakmak), 44.000 USD.

- Physiological screening of *Aegilops tauschii* genotypes by comparing Na, K, Ca intake and Na/K, Na/Ca ratios.
- Identification new transcripts specific for the D genome in response to salt stress by cDNA AFLP.

International and Industrial Projects

2008-2010 EU 7th Framework Project KBBE.2010.1.1-03, Principle Investigator for Turkey.

WWF (Wild Wheat for Worldwide Food): Characterisation of Biodiversity Resources for Wild crop relatives to improve crops by breeding. Principle Investigator for Turkey (representative for TUBITAK MRC GEPI, Turkish Ministry of Food, Agriculture and Livestock, Çukurova University) among 14 partners from EU.

- Score 14.5/15, not supported by EU but it was published in the success story book of TUBITAK.

2003 - 2004 Germany-Israel BARD Funding, Post-doctoral fellow.

Molecular Cloning and Characterization of Drought Resistance Genes in Wild Barley, *Hordeum spontaneum*. Haifa University, Institute of Evolution, Haifa, Israel.

- Cloning and sequencing of ABA biosynthesis genes in mesic and xeric wild barleys.
- Identification of sequence polymorphism among ABA biosynthesis genes between mesic and xeric barley populations.
- Gene expression analysis of ABA biosynthesis genes under a range of stress conditions including water and salt using RT-PCR and Real time PCR instruments.

2003 - 2004 Haifa University, Institute of Evolution Research Foundation, Post-doctoral fellow

Localization of Class II Transposons in Triticeae by Fluorescence In Situ Hybridization. Haifa University, Institute of Evolution, Haifa, Israel.

*-Preparation of cytoplasm free somatic and meiotic chromosomes from Triticeae.
-Cloning, sequencing and FISH analysis of En-Spm transposons in Triticeae.*

2000 - 2001 Colorado State University, Department of Soil and Crop Sciences, NSF Project, Visiting scientist.

Identifying New Genes for Resistance to Russian Wheat Aphid and Incorporating them into Commercially Acceptable Wheat Varieties, USA.

-Testing of microsatellite markers on the populations segregating for Dn2. Identification of microsatellite marker WMS 437 which is linked to Dn2 at a distance of 2.9 cM.

2000 - 2001 Colorado State University Research Foundation, Department of Soil and Crop Sciences, Visiting scientist.

Physical mapping of Russian wheat aphid (RWA) resistance gene *Dn4* in wheat.

-FISH quality metaphase chromosome preparation, identification of positive BAC clones with southern blot analysis and pulse field gel electrophoresis, CotI DNA preparation, probe labeling with nick translation, merging the different fluorescence-labeled pictures using different softwares (Adobe Photoshop, NIH Image, Gene Join Layers, Gene Join Layers).

2000 - 2001 Colorado State University Research Foundation, Department of Soil and Crop Sciences, Visiting scientist.

Integrated QTL Analysis of Heat Tolerance in Wheat. Colorado State University, Department of Soil and Crop Sciences, USA.

-Performing microsatellite analysis on heat tolerant and susceptible wheat parents and their recombinant inbred lines for quantitative trait analyses.

1998 - 1999 TUBITAK Marmara Research Center, Genetic Engineering and Biotechnology Institute, Industrial Project (supported by Teknogen Company), Researcher.

Microclimate of Fast Growing Forest Trees: *Paulownia elongata*-Establishment of Micropropagation Systems for Industrial Purpose, Researcher.

-Optimization of tissue culture systems via direct organogenesis for micropropagation purposes.

1998 - 2001 EUREKA - 1322 Cereal Stresstol Project – Abiotic Stress Tolerance in Wheat and Barley. TUBITAK Marmara Research Center, Genetic Engineering and Biotechnology Institute, Researcher.

-Assessment of true-type F₁ hybrids in different wheat and barley lines using RAPDs.

-Selection of drought tolerant and susceptible wheat and barley F₂ genotypes using morphological and physiological markers.

-Determination of drought related molecular markers (AFLP, RAPD, STS and microsatellite) using bulked segregant analysis.

1995 – 1998 Industrial Project supported by SEKA Paper and Pulp Industry. Researcher.

Investigation of Poplar Clones Improved by Biogenetic Properties of Paper Raw Materials-I. TUBITAK Marmara Research Center, Genetic Engineering

and Biotechnology Institute.

- Establishment of DNA banks and DNA fingerprints of poplar clones for long-term conservation, determination of poplar hybrids with molecular markers.
- Identification of putative transgenic plants by selective culture media, growth and micropropagation of plants, PCR analysis for transformed plants with specific primers, protein gel and enzymatic analysis of putative transgenic plants.
- Genomic DNA isolation from poplar leaf tissues, Random Amplified Polymorphic Analyses (RAPDs).

1999 – 2001 Industrial Project supported by SEKA Paper and Pulp Industry. Researcher.

Investigation of Poplar Clones Improved by Biogenetic Properties of Paper Raw Materials-II. TUBITAK Marmara Research Center, Genetic Engineering and Biotechnology Institute.

- Establishment of DNA banks and DNA fingerprints of poplar clones for long-term conservation, determination of poplar hybrids with molecular markers.
- Identification of putative transgenic plants by selective culture media, growth and micropropagation of plants, PCR analysis for transformed plants with specific primers, protein gel and enzymatic analysis of putative transgenic plants.
- Genomic DNA isolation from poplar leaf tissues, Random Amplified Polymorphic Analyses (RAPDs).

Projects in R&D and Innovation - Activities

2017 – 2019 Project leader

Support Program for Capacity Building in Innovation Entrepreneurship Areas for Marmara University Technology Transfer Office (MITTO), **TUBITAK 1601 Project**, 350.000 USD.

- Project management and development services (university-industry relations).
- Intellectual rights management and licensing services.
- Corporate and entrepreneurship services.

2016 - 2017 TTO coordinator

Support Program for Capacity Building in Innovation Entrepreneurship Areas for Marmara University Technology Transfer Office (MITTO), **TUBITAK 1601 Project**, 280.000 USD.

- Awareness, promotion, information and education services.
- Services for benefiting from Project support programs.
- Project management and development services (university-industry relations).
- Intellectual rights management and licensing services.
- Corporate and entrepreneurship services.

2016 - 2017 Project leader

Marmara University, R&D Strategy Document on Biotechnology, **TUBITAK 1000 Project**, 280 USD.

- Feasibility analysis and future predictions for 5 years based in the potential research & development activities, technical & administrative actions on biotechnology area including industrial biotechnology, agricultural biotechnology, environmental biotechnology, medical biotechnology in Marmara University.

2014 - 2016 Project leader

Increasing the Potential of Marmara University's for TUBITAK ARDEB Project Programs. **TUBITAK 1000 Project**, 51.000 USD.

- Organising project info days, success stories, workshops and applied courses on how to write research proposals for TUBITAK ARDEB Project programs.

February 18 – 20 2017 *Participation of Training Course: Fundamentals of Technology Transfer, ASTP PROTON, Sitges, Barcelona, Spain.*

July 18-23 2016 *Participation of Training Course: Mentoring for Business Development of Start-up Companies with Technology Base by Pera EEMEA, İstanbul, Turkey.*

July 3-7 2006 *Participation of Symposium: Portland International Center for Management of Engineering and Technology (PICMET) Symposium. "Technology Management". TUSSIDE- Gebze, Turkey.*

Undergraduate Courses Given at Engineering Faculty of Marmara University

- Career Development (HR113) (2014 - 2015, 2015 - 2016, 2016 - 2017, fall)
- Planning and Management of Research (BIOE4072) (2016 - 2017, fall and spring)

PUBLICATIONS

Publications in International Journals (SCI)

- 1) Ezgi Çabuk Şahin, Aral Kalenderoğlu, Yıldız Aydın, Göksel Evcı, **Ahu Altinkut Uncuoglu**. SSR markers suitable for marker assisted selection in sunflower for downy mildew resistance. *Open Life Sciences*, (in press) (2018).
- 2) Sana Ziadi, Ezgi Cabuk Sahin, Yildiz Aydin, Goksel Evcı, **Ahu Altinkut Uncuoglu**. (2018). A report on race composition of *Orobanche cumana* causal agent of sunflower broomrape. *Interciencia Journal*, 43(3), (in press) (2018).
- 3) Kevser Kosoglu, Sevcan Yumuk, Yildiz Aydin, Goksel Evcı, **Ahu Altinkut Uncuoglu**. Use of SNP markers by KASP assay for MAS studies in sunflower against *Plasmopara halstedii*. *Turkish Journal of Agriculture and Forestry*, DOI: 10.3906/tar-1707-53, 41:480-489, (2017).
- 4) Tulin Tascioglu, Yildiz Aydin, Kadir Akan, Sandeep Kumar Verma, Ozge Karakas Metin, **Ahu Altinkut Uncuoglu**. Wheat stripe rust disease: quantitative profiling of *Yr10* gene. *Fresenius Environmental Bulletin*, Volume 26, No. 7/2017 pp: 4859-4866. (2017).
- 5) Tulin Tascioglu, O. Karakas Metin, Yildiz Aydin, M. Sakiroglu, K. Akan, **Ahu Altinkut Uncuoglu**. Genetic diversity, population structure, and linkage disequilibrium in bread wheat (*Triticum aestivum* L.). *Biochemical Genetics*, 54:421–437, DOI 10.1007/s10528-016-9729-x, (2016).
- 6) Alimu Abuduli, Yildiz Aydin, Muhammet Sakiroglu, Ahmet Onay, Sezai Ercisli, **Ahu Altinkut Uncuoglu**. Molecular evaluation of genetic diversity in wild-type mastic tree (*Pistacia lentiscus* L.). *Biochemical Genetics*, 54:619–635, DOI 10.1007/s10528-016-9742-0, (2016).
- 7) Ahmet Onay, Engin Tilkat, Veysel Suzerer, Ozge Karakas Metin, Yelda Ozden Ciftci, Fatih Mehmet Kilinc, İbrahim Koc, Muhammet Sakiroglu, Hakan Yildirim, **Ahu Altinkut Uncuoglu**, Nazan Calar, Ömer Faruk Akdemir. Rejuvenation of mature lentisk by micrografting and

evaluation of genetic stability. *Turkish Journal of Biology*, 40:781-796, DOI: 10.3906/biy-1510-25, (2016).

- 8) Ertugrul Filiz, Assaf Distelfeld, Tzion Fahima, Ozge Karakas Metin, Eviatar Nevo, Song Weining, **Ahu Altinkut Uncuoglu**. Barley molybdenum cofactor sulfurase (MCSU): sequencing, modeling and its comparison to other higher plants. *Turkish Journal of Agriculture and Forestry*, DOI: 10.3906/tar-1411-68, (2015).
- 9) Fatih Mehmet Kılınc, Veysel Süzerer, Ahmet Onay, Hakan Yıldırım, Yelda Özden Çiftçi, **Ahu Altinkut Uncuoglu**, İbrahim Koç, Ömer Faruk Akdemir, Özge Karakaş Metin. Clonal micropropagation of *Pistacia lentiscus* L. and assessment of genetic stability using IRAP markers. *Plant Growth Regulation*, DOI 10.1007/s10725-014-9933-9, (2015).
- 10) Handan Balta, Ozge Karakas Metin, Funda Senturk Akfirat, Fahriye Ertugrul, Semra Hasancebi, Yildiz Aydin, Kadir Akan, Zafer Mert, Muge Turet, **Ahu Altinkut Uncuoglu**. Identification of an AFLP marker linked with yellow rust resistance in wheat (*Triticum aestivum* L.). *Turkish Journal of Biology*, 38: 371-379 (2014).
- 11) Semra Hasancebi, Zafer Mert, Fahriye Ertugrul, Kadir Akan, Yildiz Aydin, Funda Senturk Akfirat, **Ahu Altinkut Uncuoglu**. An EST-SSR Marker, *bu099658*, and its potential use in breeding for yellow rust resistance in wheat. *Czech J. Genet. Plant Breeding*, 50, (1), pp: 11-18, (2014).
- 12) Funda Senturk Akfirat, Fahriye Ertugrul, Semra Hasancebi, Yildiz Aydin, Kadir Akan, Zafer Mert, Mehmet Cakir, **Ahu Altinkut Uncuoglu**. Chromosomal location of genomic SSR markers associated with yellow rust resistance in Turkish bread wheat (*Triticum aestivum* L.). *Journal of Genetics* Vol. 92, No. 2, pp: 233-240, (2013).
- 13) Funda Senturk-Akfirat and **Ahu Altinkut Uncuoglu**. Genetic diversity of winter wheat (*Triticum aestivum* L.) revealed by SSR markers. *Biochemical Genetics*, 51(3), 223-229, (2013).
- 14) Dilek Tok, Funda Senturk-Akfirat, Duygu Sevinç, Yıldız Aydın, **Ahu Altinkut Uncuoglu**. Identification of genetic polymorphism and DNA methylation pattern in wheat (*Triticum aestivum* L.). *Turkish Journal of Field Crops*, 16(2):157-165, (2011).
- 15) Ezgi Cabuk, Yildiz Aydin, Ahu Altinkut Uncuoglu. Assessing wheat (*Triticum aestivum* L.) genotypes for “Yr” resistance genes using conserved regions and simple sequence motifs. *Genetics and Molecular Research*, 10 (4): 3463-3471 (2011).
- 16) Ozge Karakas, Filiz Gurel, A. Altinkut Uncuoglu. Assessment of genetic diversity of wheat genotypes by RGA-EST markers. *Genetics and Molecular Research*, 10 (2): 1098-1110, (2011).
- 17) Ozge Karakas, Filiz Gurel, Ahu Altinkut Uncuoglu. Exploiting of A wheat EST database for assessment of genetic diversity. *Genetics and Molecular Biology*, 33, 4, pp.719-730, (2010).
- 18) F. Senturk Akfirat, Y. Aydin, F. Ertugrul, S. Hasancebi, H. Budak, K. Akan, Z. Mert, N. Bolat, A. Altinkut Uncuoglu. A microsatellite marker for yellow rust resistance in wheat. *Cereal Research Communications*, 38(2), pp. 203–210, (2010).
- 19) S. Ercan, F. Ertugrul, Y. Aydin, F. S. Akfirat, S. Hasancebi, K. Akan, Z. Mert, N. Bolat, O. Yorgancilar, A. Altinkut Uncuoglu. An EST-SSR marker linked with yellow rust resistance in wheat (*Triticum aestivum* L.), *Biologia Plantarum*, 54 (4): 691-696, (2010).
- 20) Yumurtacı A., Aydin, Y., Altinkut Uncuoglu A. Cytological changes in Turkish durum and bread wheat genotypes in response to salt stress, *Acta Biologica Hungarica*, 60 (2), pp. 221–232

(2009).

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- 17) Temel, A., Şenturk Akfırat F., Ertuğrul, F., Yumurtacı, A., Aydın, Y., Talas Oğras, T., Gözükırmızı, N., Bolat, N., Yorgancılar, Ö., Belen, Ş., Yıldırım, M., Çakmak, M., Özdemir, E., Çetin, L., Mert, Z., Sipahi, H., Albustan, S., Akan, K., Düşünceli, F., **Altinkut Uncuoğlu, A.** Scanning of Yellow Rust Resistance Gene "Yr10" in Winter Type Bread Wheat (*Triticum aestivum* L.). Turkey VII Congress of Crop Field. Proceeding Book, p: 375-378, June 25-27,

Erzurum, (2007), (*Oral presentation*).

- 18) Alp, U.S., Şenturk-Akfirat F., Ertuğrul, F., Yumurtacı, A., Aydın, Y., Talas-Oğras, T., Gözükırmızı, N., Bolat, N., Yorgancılar, Ö., Belen, Ş., Yıldırım, M., Çakmak, M., Özdemir, E., Çetin, L., Mert, Z., Sipahi, H., Albustan, S., Akan, K., Düşünceli, F., **Altinkut Uncuoğlu, A.** Investigation of "Yr5" Yellow rust (*Puccinia striiformis*) Resistant Genotypes by Molecular Markers in Winter Bread Wheat (*Triticum aestivum* L.) Varieties. Turkey VII Congress of Crop Field, Proceeding Book, p: 412-415, June 25-27, Erzurum, (2007), (*Oral presentation*).
- 19) İpekçi, Z., **A. Altinkut**, T. Oğraş ve N. Gözükırmızı. Methods Used to Identify Genetically Modified Plant and Foods. Workshop on Food Safety and Health Risks. Proceeding Book, p: 21, S. Demirel University., Faculty of Agriculture, Department of Food Engineering, October 20-22, Isparta, (2003), (*Oral presentation*).
- 20) Bajrovic, K., Ipekci Z., Oğras, T., **Altinkut A.**, Ozturk, N., Gozukirmizi, N., Transformation Studies in Hybrid Poplar (*Populus deltoides* x *Populus deltoides*) and Shimmering Poplar (*Populus tremula*) Clones 12. Biotechnology Congress, Ayvalık, Balıkesir, September 17-21, Proceeding Book, p: 82-85, (2001), (*Oral presentation*).
- 21) **Altinkut A.**, Ipekci Z., Turet M., Gozukirmizi N. Selection of Drought Resistant Genotypes in Barley and Wheat by Physiological and Genetic Parameters. Basis of Physiology of Plant Stress at Molecular Level, Ege University, EBILTEM, June 22-26, Bornova/İzmir, Turkey, Proceeding Book, p: 155-168. (1998), (*Oral presentation*).
- 22) **Altinkut A.**, Sahin S., Albayrak G., Gozukirmizi N. Genetic Analysis on the Transgenic Chickpea Plants) XIII. National Biology Congress, September 17-20, Section for Biotechnology, Microbiology, Molecular Biology and Genetics, Proceeding Book, p: 46-55, (1996), (*Oral presentation*).
- 23) Sahin S., **Altinkut A.**, Ş. Arı. Genetic Analyzes of Tobacco (*Nicotiana tabacum* L.) in T-DNA Insertion Mutants XIII. National Biology Congress, September 17-20, Section for Biotechnology, Microbiology, Molecular Biology and Genetics, Proceeding Book, p: 36-45, (1996), (*Oral presentation*).
- 24) **Altinkut A.**, Sahin S., Bajrovic K., Gozukirmizi N. Establishment of Tissue Cultures and Gene Transfer Studies in Chickpea (*Cicer arietinum* L.). Biotechnology and Plant Breeding Workshop, 17-19 April, Gebze/Kocaeli, Turkey, Proceeding Book, p: 195-198, (1995), (*Oral presentation*).

Other Publications

- 1) **Ahu Altinkut Uncuoğlu.** Plant Bioediversity and Plant Gene Resources in Turkey. *Science and Technique Magazine (Bilim ve Teknik Dergisi)*, p: 46-49, November issue, (2010).
- 2) **Ahu Altinkut Uncuoğlu.** Resilience in the Face of Stress. Young Women in Science. In partnership with for Women in Science. Loreal Foundation. *Science AAAS*, p: 34-35, (2009)
- 3) **Ahu Altinkut Uncuoğlu.** Development of Molecular Markers for Resistance to Yellow Rust Disease in Wheat, *Science and Technique Magazine (Bilim ve Teknik Dergisi)*, p: 9-10, January issue, (2008).
- 4) Boydak, M., K Tunçtaner, T. Tank, T. Akalp, Ö. Özden, T. Tulukçu, H. Balkan, H. Tanrıyar, M. Çalikoğlu, K. Bajroviç, T. Oğraş, **A. Altinkut**, Z. İpekçi ve N. Gözükırmızı. Investigation and Investigation of Kavak Clones Improved by Biogenetics of Paper Raw Material Properties.

SUPERVISION of UNDERGRADUATE AND GRADUATE STUDENTS, POST-DOCTORAL FELLOWS, VISITING SCIENTISTS

MSc Theses

- 1) *Zeyneb Nur Şahin*, MSc, (2018). Use of KASP Assay in Sex Determination of Pistacia. Marmara University, Science Institute, Department of Bioengineering.
- 2) *Nilay Yönet*, MSc, (2017). Molecular Characterisation of Sunflower Broomrape (*Orobancha cumana* Wallr.) Germplasm. Marmara University, Science Institute, Department of Bioengineering.
- 3) *Elif (Çakmak) Kılıç*, MSc, (2017). Biochemical and Molecular Analysis of Sunflower (*Helianthus annuus* L.) in Response to in vitro Conditions. Marmara University, Science Institute, Department of Bioengineering.
- 4) *Mehmet Aydemir*, MSc, (2015). Phylogenetic Analysis of *Colchicum* L. Species with Chloroplast Genome Specific Markers. Marmara University, Science Institute, Department of Bioengineering.
- 5) *Seren Mete*, MSc, (2015). Identification of *Colchicum* L. Species of Turkey's Flora by Sequence Analysis of nrDNA ITS Region. Marmara University, Science Institute, Department of Bioengineering.
- 6) *Alimu Abuduli*, MSc, (2015). Evaluation of Wild Type Mastic Tree (*Pistacia lentiscus* L.) Germplasm by Molecular Markers. Marmara University, Science Institute, Department of Bioengineering.
- 7) *Tülin Taşcıoğlu*, MSc, (2014). Assessment of Genetic Diversity in Yellow Rust Disease Resistant Wheat (*Triticum aestivum* L.) Genepool and Gene Expression Analyses. Marmara University, Science Institute, Department of Bioengineering.
- 8) *Handan Balta*, MSc, (2014). Searching for Yellow Rust Resistance in Wheat (*Triticum aestivum* L.) by Amplified Fragment Length Polymorphism. Istanbul University, Science Institute, Department of Biology.
- 9) *Dilek Tok*, MSc, (2010). Investigation of DNA Methylation Polymorphism in Various Types of Yellow Rust Disease Resistant and Sensitive Bread Wheat (*Triticum aestivum* L.). Marmara University, Science Institute, Department of Biology
- 10) *Duygu Sevinç*, MSc, (2010). Investigation of Yellow Rust Disease Resistant and Sensitive Wheat (*Triticum aestivum* L.) Varieties with Molecular Markers. Istanbul University, Science Institute, Department of Biology.
- 11) *Ezgi Çabuk Şahin*, MSc, (2009). Investigation of Resistant and Susceptible Wheat (*Triticum aestivum* L.) Species for Yellow Rust with Molecular Markers in Gene-Rich Areas. Marmara University, Science Institute, Department of Biology.
- 12) *Seval Ercan*, MSc, (2008). Investigation of Resistance against Yellow Rust (*Puccinia striiformis* f. *Tritici*) Disease in Some Winter Bread Wheat (*Triticum aestivum* L.) Varieties by Molecular Markers. Marmara University Science Institute, Department of Biology.

PhD Theses

- 1) *Ezgi Çabuk Şahin*, PhD, (2016). Identification of *Colchicum* Genus Distributed in Turkey by DNA Barcoding System. Marmara University, Science Institute, Biology, Department of Biology.
- 2) *Abdurrahman Umut Tüyel*, PhD, (2015). Molecular Characterisation and Association Mapping with Morphological Data of *Colchicum* L. Species in the Flora of Turkey, Marmara University. Science Institute, Department of Bioengineering.
- 3) *Özge Karakaş*, PhD, (2010). Investigation of Resistance to Yellow Rust Disease in Winter Bread Wheat (*Triticum aestivum* L.) by Biotechnological Methods. Istanbul University, Science Institute, Department of Molecular Biology and Genetics.
- 4) *Ayşen Yumurtacı*, PhD, (2009). Determination of New Genes Providing Salt Stress Resistance in *Aegilops tauschii* by cDNA AFLP Method. Marmara University, Science Institute, Department of Biology.

Graduation Theses

- 1) *Yeşim Akgül, Melis Sercan*, (2018). Induction of Polyploidy in Sunflower (*Helianthus annuus* L.) and Characterisation of Ploidy levels by using Flow Cytometer.
- 2) *Selen Şenal, İpek Canatar*, (2018). Identification of Genomic Variations in Pistacia Genus.
- 3) *Kevser Kösoğlu, Sevcan Yumuk*, (2017). Identification of SNP Markers Related with Downy Mildew Resistance Genes in sunflowers and KASP Assay Optimization, (with the support of **TUBITAK BİDEB 2241 A** (2209 B) Industry Oriented Undergraduate Thesis Support Program).
- 4) *Melike Özder, Övgü Sesal*, (2016). Characterisation of Pistacia Genus with Molecular Markers.
- 5) *Büşra İpek Tekin, Bülent Mustafa Faytın, Deniz Tonyalı*, (2016). Molecular Characterization of *Colchicum* Species by Sequence Analysis of nrDNA ITS Regions.
- 6) *Nilay Yönet, Ceren Pekşen*, (2015). Structural and Functional Analysis of Moco Sulfurase Gene Under Various Stress Conditions in Barley Plants, (with the support of **TUBITAK BİDEB 2209 A** University Student Support Program for Domestic-Overseas Research Projects).
- 7) *Kamer Dinç, Cemre Günay, Ezgi Özşarik* (2015). Structural and Functional Analysis of Yellow Rust Resistance Gene *Yr10* in Wheat Gene Pool, (with the support of **TUBITAK BİDEB 2209 A** University Student Support Program for Domestic-Overseas Research Projects).
- 8) *Aral Kalenderoğlu*, (2014). Determination of Resistance to Downy Mildew in Sunflower (*Helianthus annuus*) L.) by Marker Assisted Selection (with the support of **TUBITAK BİDEB 2241 A** Industry Oriented Undergraduate Thesis Support Program).

Post-Doctoral Researchers and Visiting Scientists

- 1) *Dr. Sana Ziadi*: Identification of Race Composition of Sunflower Broomrape (*Orobanche cumana* Wallr.) in the Thrace Region of Turkey, (with the support of TUBITAK BİDEB 2216 Research Fellowship Program For International Researchers) during **January 04, 2016- January 04, 2017** as a post-doc in Plant Biotechnology Research Group under the supervision of Prof.

Altinkut Uncuoglu.

- 2) *Dr. Ehsan Valiollahi*: Identification of Abiotic-responsive microRNAs in *Solanum lycopersicum* by Stem-loop qPCR, during **October 15, 2014 – January 15, 2015** as a visiting scientist in Plant Biotechnology Research Group under the supervision of Prof. Altinkut Uncuoglu.
- 3) *Dr. Sandeep Kumar Verma*: Identification of Colchicum L. Species in the Flora of Turkey via Nuclear DNA Content, Morphological Parameters and Association Mapping, (with the support of TUBITAK BIDEB 2216 Research Fellowship Program For International Researchers) during **June 12, 2012- June 12, 2013** as a post-doc in Plant Biotechnology Research Group under the supervision of Prof. Altinkut Uncuoglu.

TEACHING RESPONSIBILITIES

Undergraduate Courses:

- General Biology for Engineers (BIOE1011) (2013 - 2014, 2014 - 2015, 2015 -2016, 2016 - 2017, spring)
- Molecular Biology and Genetics for Bieengineers (BIOE2002) (2011-2012 spring, 2012 - 2013, 2013 - 2014, 2014 -2015, 2015 - 2016, 2016 - 2017, spring)
- Recombinant DNA Technology (BIOE4000) (2015 - 2016, 2016 - 2017, fall)
- Career Development (HR113) (2014 - 2015, 2015 - 2016, 2016 - 2017, fall)
- Planning and Management of Research (BIOE4072) (2016 - 2017, fall and spring)
- Special Topics in Bioengineering (BIOE495) (2015 - 2016, 2016 - 2017, fall)
- Microbiology for Engineers (BIOE201) (2011-2012 fall, 2012-2013 fall, 2013-2014 fall)
- Bioengineering Project I (BIOE497.5) (2013-2014, 2014-2015, 2015-2016, 2016-2017 fall)
- Bioengineering Project II (BIOE498.1 2013-2014, 2014-2015, 2015-2016, 2016-2017 spring)
- BIOE495.5 Special Topics in Bioengineering III (2014-2015 fall)

Graduate Courses:

- Agricultural Biotechnology (BIOE8004) (2015-2016 spring, 2016-2017 spring)
- Plant Biodiversity and Genetic Resources (BIOE708) (2012-2013 spring, 2013-2014 fall and spring)
- Structural and Functional Genomics (BIOE891) (2011-2012 fall and spring, 2012-2013 fall, 2015-2016 fall)
- Basic Techniques in Molecular Biology (BIOE7007) (2014-2015 fall, 2015-2016 fall, 2016-2017 fall)
- Recent Advances in Plant Biotechnology (BIOE712) (2011-2012 fall and spring, 2012-2013 fall, 2014-2015 spring)
- Chromosome Biology and Cytogenomics (BIOE7050) (2014-2015 spring, 2015-2016 spring)

INVITED TALKS, MEETINGS, COURSES AND WORKSHOPS

June 03-05, 2018:	<i>Refree:</i> Joint Call for Proposals ERA-NET Cofund on Sustainable Crop Production, SusCrop, Paris-France.
May 23-25, 2018:	<i>Participant:</i> Technology Transfer in a Changing Environment, Annual Conference organised by ASTP-Proton, Liege, Belgium.
May 23, 2018:	<i>Representative of USIMP, Turkey.</i> Biannual Face-To-Face Meeting for technology transfer. National Associations Advisory Committee, Liege, Belgium.
Januray 18-20, 2017:	<i>Participant:</i> Course on “Fundemantals of Technology Transfer” organised by ASTP-Proton, Sitges, Spain.
November 03-05 2017:	<i>Invited Speaker:</i> “Designing of Projects in RD Studies in Health Sciences”. International Meeting on Education and Research in Health Sciences (IMER-HS), Istanbul, Turkey.
March 26-27 2016:	<i>Keynote Speech:</i> “Genetic Diversity and Association Mapping in Plants. International Conference on Agriculture”, Ecology and Biological Engineering (AEBE-16), London, United Kingdom.
March 15-16 2016:	<i>Invited Speaker:</i> “Project-Based Work in Plant Biotechnology: Molecular Breeding and Association Mapping”. IV. Çukurova Biotechnology Days, Adana, Turkey.
October 8-10 2016:	Expo 2016 Antalya organised under the motto of “A Green Life for Future Generations.
September 21-23 2015:	<i>Keynote Speech:</i> Association Mapping in Plants. International Workshop on “Green Biotechnology”, Bayramoğlu Resort Hotel, Darica, Kocaeli, Turkey.
October 25-28 2014:	<i>Invited Speaker:</i> “Advance Technologies and Multi-disciplinary Projects in Plant Science”, 1 st National Botanic Conference Antalya, Turkey.
February 27-March 5 2010:	<i>Invited as a Role Model:</i> For Women in Science Week Events organised by UNESCO and L’oreal Foundation. UNESCO Headquarter, Paris, France.
June 3-7 2006:	Second IAASTD Sub-Global (Central/West Asia and North Africa: (CWANA) Authors’ Meeting organised by ICARDA and World Bank. Amman, Jordan.
January 28 - 29 2006:	<i>Invited Speaker:</i> "Women in Biotechnology Area: An Example for Finding a Place in Turkey". International Women Conference organised by Turkish Republic Prime Ministry Directorate General on The Status and The Problems of Women, Conrad Otel, Istanbul,

	Turkey.
November 29 – December 02 2005:	First CWANA Authors Meeting of the Bureau of the International Assessment of Agricultural Science and Technology for Development (IAASTD) organised by World Bank, ICARDA, Aleppo, Syria.
October 25 - 28 2005:	Plant Biotechnology Meeting organised by International Bureau of the Federal Ministry of Education and Research, German Aerospace Center, Bonn, Germany.
April 25-26 2005:	Meeting on Agricultural Research Areas, TUSSIDE, Gebze, Kocaeli, Turkey.
October 03 - 07 2005:	Workshop on Genomics and Marker Assisted Selection (MAS) in Plant Breeding, Ege University, EBILTEM, Turkey.
January 29 2004:	Introduction to Microarray Analysis: Hands-on session in the Feinberg Computer Room, Weizmann Institute of Science, Rehovot, Israel.
February 27 2003:	The Ceremony for The Annual L'oreal-UNESCO Awards and UNESCO–L'oreal Fellowships For Women in Science, UNESCO Headquarter, Paris, France.
February 19 - 22 2001:	International Seminar on “Genetics and Molecular Biology of Stress Tolerance in Plants” TUBITAK, MRC, Gebze-Kocaeli, Turkey.
January 12 - 13 2001:	National Science Foundation Meeting, Town and Country Hotel San Diego, California-USA.
December 3 - 4 2001:	Second Turkish-Israeli Joint Conference on Plant Genetics and Molecular Biology, (Ahu Altinkut and Nora Lapitan, Physical Mapping of RWA Resistance Genes in Wheat and Barley), TUBITAK- MRC, Turkey.
September 12 - 15 1998:	Drought Resistance in Crop Plants, ICGEB, Workshop, Varna, Bulgaria.
June 22 - 26 1998:	Selection of Drought Resistant Genotypes in Barley and Wheat, EUREKA 1322 Workshop, IHAR, Poland.
October 30 - 01 November 1996:	Practical Course Plant Biotechnology II: Gen Transfer in Plants, TUBITAK, MRC, Gebze-Kocaeli, Turkey.

April 12 - 19 1995:

Workshop Biotechnology and Plant Improvement, Tusside Gebze-Kocaeli, Turkey.

EDITORIAL WORKS, SOCIETIES, RESPONSIBILITIES AND MEMBERS

Professional Services

- Scientific Committee Member of International Agricultural, Biological and Life Science Conference (2018)
- Editorial Board Member of "The International Journal of Innovative Approaches in Agricultural Research (IJIAAR)" (2017-)
- Scientific Committee Member of Agribalkan 2017 Congress (2017)
- Editorial Board Member of "Turkish Journal of Field Crops" (2013-2017)
- Scientific Committee Member of 1st National Botanic Congress (2014)
- Member of "International Plant Proteomic Organisation" (2011-)
- TUBITAK Basic Sciences Research and Support Group, Board Member (2009-2010)
- Turkey Plant Technologies Platform- Board Member (2007-2009)
- Turkish Biochemistry Association (2005-)
- Turkish Biotechnology Association (1998-)

Scientific & Technical Organisations

- *Member of Organising Committee:* International Green Biotechnology Congress, September 11-13, 2017, Dedeman Bostancı Hotel & Convention Center, Istanbul, TURKEY.
- *Member of Organising Committee:* International Workshop on "Green Biotechnology", September 21-23, 2015, Bayramoğlu Resort Hotel, Darıca, Kocaeli, TURKEY.
- *Organiser of an Practical Course:* Fluorescent based New Generation Genetic Analysis: A Course on DNA sequencing, Molecular Marker Technologies and Multiplex Gene Expression Analyses, June 15-19, 2009 and June 22-26 2009, TUBITAK, Marmara Research Center, Genetic Engineering and Biotechnology Institute, Kocaeli, TURKEY.