

CURRICULUM VITAE



*Prof. Dr. Ahu
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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

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

- 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

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

-Obtaining phlogenetic tree which show the proximity degree of 8 Pistacia genus (P. atlantica Desf, P. integorima, P. khinjuk Stocks, P. Chinensis, P. palaestina Boiss, P. terebinthus L.subsp. terebinthus, P. vera L. and P. mutica), they also grow in flora of Turkey, by the single nucleotide polymorphism and present useful data to plant breeders.

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 characterise 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 GEBI, 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

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) 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).

- 2) 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).
- 3) 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).
- 4) 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).
- 5) Ertugrul Filiz, Assaf Distelfeld, Tzion Fahima, Ozge Karakas Metin, Eviatar Nevo, Song Weining, **Ahu Altinkut Uncuoglu.** Barley molybdenum cofactor sulfuryase (MCSU): sequencing, modeling and its comparison to other higher plants. *Turkish Journal of Agriculture and Forestry*, DOI: 10.3906/tar-1411-68, (2015).
- 6) Fatih Mehmet Kılınç, 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).
- 7) 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).
- 8) 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).
- 9) 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).
- 10) 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).
- 11) 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).
- 12) 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).
- 13) 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).

- 14) 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).
- 15) 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).
- 16) 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).
- 17) Yumurtacı A., Aydın, 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).
- 18) Temel, A., Akfirat, F., Ertuğrul, F., Yumurtacı, A., Aydın, Y., Talas-Oğraş, T., Gozukirmizi, N., Bolat, Yorgancilar, O., Belen, S., Yıldırım, M., Çakmak, M., Özdemir, E., Çetin, L., Sipahi, H., Albustan, S., Mert, Z., Akan, K., Düşünceli, F., Altinkut Uncuoglu A. Yr10 gene polymorphism in bread wheat varieties. *African Journal of Biotechnology*, 7(14), 2328-2332, (2008).
- 19) Altinkut A., Kotseruba, V., Kirzhner, V. M., Nevo, E., Raskina, O., Belyayev, A. Ac-like transposons in populations of wild diploid Triticeae species: comparative analysis of chromosomal distribution. *Chromosome Research*, 14, 307-317, (2006).
- 20) Altinkut A., Raskina, O., Nevo, E., Belyayev, A. En/Spm-like transposons in Poaceae species: transposase sequences variability and chromosomal distribution. *Cellular and Molecular Biology Letters*, 11(2), 214-22, (2006).
- 21) Çingilli, H., Altinkut, A., Akçin, A. The use of microsatellite markers in the annual and perennial Cicer species growing in Turkey. *Biologia*, 60(1), 93-98, (2005).
- 22) Altinkut, A., Gözükırmızı N. Search for microsatellite markers associated with water stress tolerance in wheat through Bulk Segregant Analysis. *Molecular Biotechnology*, 23, 97-106, (2003).
- 23) Altinkut, A., Kazan, K., Gözükırmızı, N. AFLP marker linked to water-stress-tolerant bulks in barley (*Hordeum vulgare* L.). *Genetics & Molecular Biology*, 26(1), 77-82, (2003).
- 24) Altinkut, A., Kazan, K., İpekçi, Z., Gözükırmızı, N. Tolerance to paraquat is correlated with the traits associated with water stress tolerance in segregating F₂ population of barley and wheat. *Euphytica*, 121, 81-86, (2001).
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SUPERVISION of UNDERGRADUATE AND GRADUATE STUDENTS, POST-DOCTORAL FELLOWS, VISITING SCIENTISTS

MSc Theses

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- 4) *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.
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- 9) *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.
- 10) *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.
- 11) *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) *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).
- 2) *Kamer Dinç, Cemre Günay, Ezgi Özşarık* (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).
- 3) *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).
- 4) *Büşra İpek tekin, Bülent Mustafa Faytın, Deniz Tonyalı*, (2016). Molecular Characterization of Colchicum Species by Sequence Analysis of nrDNA ITS Regions.
- 5) *Melike Özder, Övgü Sesal*, (2016). Characterisation of Pistacia Genus with Molecular Markers.
- 6) *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 BIDEB 2241 A (2209 B) 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 BIDEB 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, COURSES AND WORKSHOPS

March 26-27 2016: *Keynote Speech:* “Genetic Diversity and Association Mapping in Plants. International Conference on Agriculture”, Ecology and Biological Engineering (AEBE-16), London, United Kingdom.

March 15-16 2016: *Invited Speaker:* “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: *Keynote Speech:* Association Mapping in Plants. International Workshop on “Green Biotechnology”, Bayramoğlu Resort Hotel, Darica, Kocaeli, Turkey.

October 25-28 2014: *Invited Speaker:* “Advance Technologies and Multi-disciplinary Projects in Plant Science”, 1st National Botanic Conference Antalya, Turkey.

February 27-March 5 2010: *Invited as a Role Model:* 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: *Invited Speaker:* "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-Israel 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

Administrative Responsibilities at Marmara University

- Marmara University Innovation and Technology Transfer Office (MITTO) –Coordinator (2016-)
- Marmara University Member of Strategy Commission (2015)
- Marmara University Environmental Issues Research and Implementation Center Board Member (2013 - 2015)
- Marmara University Innovation and Technology Transfer Office (MITTO) – Board Member (2012 - 2016)

Professional Services

- Scientific Committee Member of AgriBalkan 2017, 2nd International Balkan Agriculture Congress (2017)
- Scientific Committee Member of 1st National Botanic Congress (2014)
- Editorial Board Member of “Turkish Journal of Field Crops” (2013-)
- 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.