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Education Information

Post Doctorate, Mississippi State University, Plant And Soil Sciences, Plant Sciences, United States Of America 2001 - 2001
Doctorate, Mississippi State University, Life Sciences, Plant Sciences, Molecular Biology, United States Of America 1996 - 2001

Research Areas

Agricultural Sciences, Agriculture, Infield Plants, Biotechnology and Genetics, Molecular Genetics

Academic Titles / Tasks

Associate Professor, Akdeniz University, Faculty of Agriculture, Tarla Bitkileri, 2001 - Continues

Advising Theses

KARACA M., Pamuk (GOSSYPIMUM L.) kromozom substitüsyon hatlarının mikrosatellit markırları kullanılarak belirlenmesi, Postgraduate, A.Aydın(Student), 2013

KARACA M., Pamuk Kromozom ikame hatlarının mikrosatellit karakterizasyonu, Postgraduate, A.Aydın(Student), 2013

KARACA M., Bazı pamuk (Gossypium SPP.) çeşitlerinin mikrosatellit DNA parmak izlerinin belirlenmesi, Postgraduate, A.Erkılınc(Student), 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Grafting and Rootstock Effects on Seed Oil Contents in Tetraploid Cotton Species (Gossypium L.)**
KARACA M., İNCE A. G.
Gesunde Pflanzen, vol.75, no.4, pp.1401-1410, 2023 (SCI-Expanded)
- II. **Grafting-induced seed gossypol levels by demethylation of (+)-delta-cadinene synthase genes in upland cotton**
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Plant Breeding, vol.142, no.1, pp.97-108, 2023 (SCI-Expanded)

- III. **A DNA Extraction Method for Nondestructive Testing and Evaluation of Cotton Seeds (*Gossypium* L.)**
KARACA M., İNCE A. G.
Biochemical Genetics, 2023 (SCI-Expanded)
- IV. **Tissue and/or developmental stage specific methylation of nrDNA in *Capsicum annuum***
İNCE A. G., KARACA M.
JOURNAL OF PLANT RESEARCH, vol.134, no.4, pp.841-855, 2021 (SCI-Expanded)
- V. **Interspecific grafting between *Gossypium hirsutum*, *G. barbadense* and *G. herbaceum* lines**
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- VI. **Hybridization studies in *Vicia sativa* complex**
Kartal G. K., Senbek G., KARACA M., Acikgoz E.
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- VII. **Conservation of Biodiversity and Genetic Resources for Sustainable Agriculture**
KARACA M., İNCE A. G.
INNOVATIONS IN SUSTAINABLE AGRICULTURE, pp.363-410, 2019 (SCI-Expanded)
- VIII. **SINGLE COTTON SEED DNA EXTRACTION WITHOUT THE USE OF ENZYMES AND LIQUID NITROGEN**
Aydin A., İNCE A. G., Gocer E. U., KARACA M.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.10, pp.6722-6726, 2018 (SCI-Expanded)
- IX. **An alternative way to assign the chromosome location of genes/markers in cotton**
AYDIN A., KARACA M.
FEBS JOURNAL, vol.283, pp.335, 2016 (SCI-Expanded)
- X. **Cleaved minisatellite locus (CML) markers for fingerprinting of cotton cultivars grown in Turkey**
UYGUR GÖÇER E., KARACA M.
FEBS JOURNAL, vol.283, pp.334, 2016 (SCI-Expanded)
- XI. **Association between cytosine methylation and tissue specific expression of microsatellites**
İNCE A. G., KARACA M.
FEBS JOURNAL, vol.283, pp.334-335, 2016 (SCI-Expanded)
- XII. **Preliminary studies on differential methylation in A and D sub-genomes of Upland cotton (*Gossypium hirsutum* L.)**
KARACA M., İNCE A. G.
FEBS JOURNAL, vol.283, pp.334, 2016 (SCI-Expanded)
- XIII. **Microsatellites for genetic and taxonomic research on thyme (*Thymus* L.)**
KARACA M., İNCE A. G., Aydin A., ELMASULU S., TURGUT K.
TURKISH JOURNAL OF BIOLOGY, vol.39, no.1, pp.147-159, 2015 (SCI-Expanded)
- XIV. **E-microsatellite markers for some naturally occurring *Salvia* species in the Mediterranean region**
İnce A. G., KARACA M.
TURKISH JOURNAL OF BIOLOGY, vol.39, no.1, pp.69-77, 2015 (SCI-Expanded)
- XV. **Ultrasonography for the prediction of extension of trophoblastic infiltration into the tubal wall in ampullary pregnancy**
Erol O., Suren D., Karaca M., Sezer C.
GINEKOLOGIA POLSKA, vol.86, no.1, pp.16-20, 2015 (SCI-Expanded)
- XVI. **Td-DAMD-PCR assays for fingerprinting of commercial carnations**
İnce A. G., KARACA M.
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- XVII. **New microsatellite and CAPS-microsatellite markers for clarifying taxonomic and phylogenetic relationships within *Origanum* L.**
İnce A. G., KARACA M., ELMASULU S.
MOLECULAR BREEDING, vol.34, no.2, pp.643-654, 2014 (SCI-Expanded)
- XVIII. **Roles for Paraoxonase but not Ceruloplasmin in Peritoneal Washing Fluid in Differential Diagnosis of Gynecologic Pathologies**
Yildirim M., Demirpence O., KAYA V., Suren D., Karaca M., Evliyaoglu O., Yilmaz N., Gunduz S.

- ASIAN PACIFIC JOURNAL OF CANCER PREVENTION, vol.15, no.15, pp.6233-6237, 2014 (SCI-Expanded)
- XXIX. **Cross-genera transferable e-microsatellite markers for 12 genera of the Lamiaceae family**
KARACA M., İNCE A. G., Aydın A., Ay S. T.
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.93, no.8, pp.1869-1879, 2013 (SCI-Expanded)
- XX. **ANTIBIOTIC RESISTANCE AND PLASMID PROFILE OF VIBRIO ALGINOLYTICUS STRAINS ISOLATED FROM CULTURED EUROPEAN SEA BASS (DICENTRARCHUS LABRAX, L.)**
KORUN J., İNCE A. G., KARACA M.
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- XXI. **Tumour Markers in Peritoneal Washing Fluid - Contribution to Cytology**
Yildirim M., Suren D., Yildiz M., Alikanoglu A. S., KAYA V., Doluoglu S. G., AYDIN Ö., Yilmaz N., Sezer C., Karaca M.
ASIAN PACIFIC JOURNAL OF CANCER PREVENTION, vol.14, no.2, pp.1027-1030, 2013 (SCI-Expanded)
- XXII. **The MAGi DNA extraction method for fresh tissues and dry seeds**
İnce A. G., Yildiz F., KARACA M.
JOURNAL OF MEDICINAL PLANTS RESEARCH, vol.5, no.22, pp.5458-5464, 2011 (SCI-Expanded)
- XXIII. **Genetic variation in common bean landraces efficiently revealed by Td-DAMD-PCR markers**
İnce A. G., KARACA M.
PLANT OMICS, vol.4, no.4, pp.220-227, 2011 (SCI-Expanded)
- XXIV. **Another CAPS DNA marker for sex identification in jojoba seedlings**
KARACA M., İNCE A. G.
PLANTA MEDICA, vol.77, no.12, pp.1280, 2011 (SCI-Expanded)
- XXV. **Comparison of multiple DNA alignment algorithms for Labiatae molecular phylogeny inferences**
İNCE A. G., KARACA M., AYDIN A.
PLANTA MEDICA, vol.77, no.12, pp.1280, 2011 (SCI-Expanded)
- XXVI. **Transferability of EST-microsatellite markers to some Labiatae genera**
İNCE A. G., KARACA M., AY S. S.
PLANTA MEDICA, vol.77, no.12, pp.1360, 2011 (SCI-Expanded)
- XXVII. **Comparison of multiple DNA alignment algorithms for Labiatae molecular phylogeny inferences**
İNCE A. G., KARACA M., AYDIN A.
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- XXVIII. **Development of new genomic and genic SSR primer pairs for carrot**
İNCE A. G., KARACA M.
PLANTA MEDICA, vol.77, no.12, pp.1359, 2011 (SCI-Expanded)
- XXIX. **Early determination of sex in jojoba plant by CAPS assay**
İNCE A. G., KARACA M.
JOURNAL OF AGRICULTURAL SCIENCE, vol.149, pp.327-336, 2011 (SCI-Expanded)
- XXX. **Classification of 63 Origanum taxa based on microsatellite markers and essential oil composition**
ELMASULU S., KURKCUOĞLU M., İNCE A. G., KARACA M., ÇINAR A., BASER K., ONUS A. N., TURGUT K.
PLANTA MEDICA, vol.77, no.12, pp.1296, 2011 (SCI-Expanded)
- XXXI. **Major volatile compounds of 50 Thymus taxa naturally grown in Antalya region of Turkey**
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- XXXII. **NEW NON-REDUNDANT MICROSATELLITE AND CAPS-MICROSATELLITE MARKERS FOR COTTON (GOSSYPIUM L.)**
KARACA M., İnce A. G.
TURKISH JOURNAL OF FIELD CROPS, vol.16, no.2, pp.172-178, 2011 (SCI-Expanded)
- XXXIII. **Exact Microsatellite Density Differences among Capsicum Tissues and Development Stages**
İNCE A. G., KARACA M., ONUS A. N.
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BİLİMLERİ DERGİSİ, vol.17, no.4, pp.291-299, 2011 (SCI-Expanded)
- XXXIV. **CAPS-microsatellites are suitable for ginger (Zingiber officinale Roscoe) genetic studies**
İNCE A. G., KARACA M., ONUS A. N.

- PLANTA MEDICA, vol.76, no.12, pp.1203, 2010 (SCI-Expanded)
- XXXV. **Mining and utilization of mushroom ESTs for microsatellites**
POLAT E., İNCE A. G., KARACA M., ONUS A. N.
CONSERVATION GENETICS, vol.11, no.3, pp.1123-1126, 2010 (SCI-Expanded)
- XXXVI. **The first report of microsatellite primer pairs for genetic studies in jojoba [*Simmondsia chinensis* (Link) Schneider]**
İNCE A. G., KARACA M., ONUS A. N.
PLANTA MEDICA, vol.76, no.12, pp.1201, 2010 (SCI-Expanded)
- XXXVII. **Development of new set of EST-SSR primer pairs for celery (*Apium graveolens* L.)**
KARACA M., İNCE A. G., TURGUT K.
PLANTA MEDICA, vol.76, no.12, pp.1202, 2010 (SCI-Expanded)
- XXXVIII. **CAPS and DAMD-PCR Assays for Species Identification of *Convolvulus* L. (Convolvulaceae)**
İNCE A. G., AYKURT C., KARACA M., SÜMBÜL H., TURGUT K.
PLANTA MEDICA, vol.76, no.12, pp.1203, 2010 (SCI-Expanded)
- XXXIX. **Polymorphic Microsatellite Markers Transferable Across Capsicum Species**
İNCE A. G., KARACA M., ONUS A. N.
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- XL. **A reliable gender diagnostic PCR assay for jojoba (*Simmondsia chinensis* (Link) Schneider)**
İNCE A. G., KARACA M., ONUS A. N.
GENETIC RESOURCES AND CROP EVOLUTION, vol.57, no.5, pp.773-779, 2010 (SCI-Expanded)
- XLI. **Screening of nine organelle DNA loci for polymorphism in twenty-two medicinal and aromatic plant species**
İNCE A. G., KARACA M., TURGUT K.
PLANTA MEDICA, vol.76, no.12, pp.1202, 2010 (SCI-Expanded)
- XLII. **Mono- and di-nucleotide repeat DNA contents differ in dioecious *Asparagus* (*Asparagus officinalis* L.)**
İNCE A. G., KARACA M., ONUS A. N.
PLANTA MEDICA, vol.76, no.12, pp.1203-1204, 2010 (SCI-Expanded)
- XLIII. **Differential expression patterns of genes containing microsatellites in *Capsicum annuum* L.**
İNCE A. G., KARACA M., ONUS A. N.
MOLECULAR BREEDING, vol.25, no.4, pp.645-658, 2010 (SCI-Expanded)
- XLIV. **CAPS-microsatellites: use of CAPS method to convert non-polymorphic microsatellites into useful markers**
İNCE A. G., KARACA M., ONUS A. N.
MOLECULAR BREEDING, vol.25, no.3, pp.491-499, 2010 (SCI-Expanded)
- XLV. **Genetic Relationships Within and Between Capsicum Species**
İNCE A. G., KARACA M., ONUS A. N.
BIOCHEMICAL GENETICS, vol.48, no.1-2, pp.83-95, 2010 (SCI-Expanded)
- XLVI. **PCR based minisatellites are useful in *Origanum*, *Thymus*, *Sideritis* and *Salvia* genetic studies**
İNCE A. G., KARACA M., TURGUT K.
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- XLVII. **Development of microsatellite primer pairs for *Cynara cardunculus* var. *scolymus* (L.) Fiori**
İNCE A. G., KARACA M., ONUS A. N.
PLANTA MEDICA, vol.75, no.9, pp.930, 2009 (SCI-Expanded)
- XLVIII. **Differential expression of microsatellites in leaves and rhizomes of Turmeric (*Curcuma longa* Linn.)**
İNCE A. G., KARACA M., ONUS A. N.
PLANTA MEDICA, vol.75, no.9, pp.929, 2009 (SCI-Expanded)
- XLIX. **Identification of genotypes with high essential oil contents in *Origanum*, *Thymus* and *Sideritis***
ELMASULU S., ÇINAR A., İNCE A. G., KARACA M., ONUS A. N., TURGUT K.
PLANTA MEDICA, vol.75, no.9, pp.932, 2009 (SCI-Expanded)
- L. **Development and utilization of diagnostic DAMD-PCR markers for Capsicum accessions**

İNCE A. G., KARACA M., ONUS A. N.

GENETIC RESOURCES AND CROP EVOLUTION, vol.56, no.2, pp.211-221, 2009 (SCI-Expanded)

- LI. Segregation patterns of cDNA-Based microsatellite and RAPD-PCR markers in F2 individuals of *Capsicum annuum* L**
İNCE A. G., KARACA M., ONUS A. N.
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- LII. An in silico analysis of ginger expressed sequence tags for microsatellites**
İNCE A. G., KARACA M., ONUS A. N.
African Journal of Traditional,AFRICAN JOURNAL OF TRADITIONAL COMPLEMENTARY AND ALTERNATIVE MEDICINES, vol.6, pp.340-341, 2009 (SCI-Expanded)
- LIIL. Effects of spent mushroom compost on quality and productivity of cucumber (*Cucumis sativus* L.) grown in greenhouses**
POLAT E., UZUN H. İ., TOPCUOĞLU B., OENAL K., ONUS A. N., KARACA M.
AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.8, no.2, pp.176-180, 2009 (SCI-Expanded)
- LIV. DAMD-PCR: A minisatellite directed polymerase chain reaction for *Sideritis* genotyping studies**
İNCE A. G., KARACA M., TURGUT K., ONUS A. N.
African Journal of Traditional,AFRICAN JOURNAL OF TRADITIONAL COMPLEMENTARY AND ALTERNATIVE MEDICINES, vol.6, pp.341, 2009 (SCI-Expanded)
- LV. Comparison of STS-PCR, RAPD-PCR, DAMD-PCR for *Phlomis*, *Melissa*, *Origanum*, *Rosmarinus* and *Sideritis* species**
İNCE A. G., KARACA M., ONUS A. N., BAKTIR I.
African Journal of Traditional,AFRICAN JOURNAL OF TRADITIONAL COMPLEMENTARY AND ALTERNATIVE MEDICINES, vol.6, pp.341-342, 2009 (SCI-Expanded)
- LVI. The MAGi RNA extraction method: a highly efficient and simple procedure for fresh and dry plant tissues**
Ince A. G., KARACA M.
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- LVII. PCR-RFLP and DAMD-PCR genotyping for *Salvia* species**
KARACA M., İNCE A. G., AY S. T., Turgut K., Onus A. N.
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- LVIII. Digital differential display tools for mining microsatellite containing organism, organ and tissue**
İNCE A. G., KARACA M., BİLGİN M., ONUS A. N.
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- LIX. Minisatellites as DNA markers to classify bermudagrasses (*Cynodon* spp.): confirmation of minisatellite in amplified products**
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- LX. Relationship between chlorophyll content and canopy reflectance in Washington navel orange trees (*Citrus sinensis* (L.) Osbeck)**
Sari M., Sonmez N. K., Karaca M.
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- LXI. Heritability of yield components in common vetch (*Vicia sativa* L.)**
Cakmakci S., Aydinoglu B., Karaca M., Bilgen M.
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- LXII. Coisolation of genomic and organelle DNAs from 15 genera and 31 species of plants**
Karaca M., Ince A. G., Elmasulu S., Onus A. N., Turgut K.
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- LXIII. A software program combining sequence motif searches with keywords for finding repeats containing DNA sequences**

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- LXIV. **Molecular and cytological characterization of a cytoplasmic-specific mutant in pima cotton (*Gossypium barbadense* L.)**
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- LXV. **Relationships between seed yield and some morphological and agronomical characters in common vetch (*Vicia sativa* L.) genotypes**
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- LXVI. **Determining relationships among yield and yield components using correlation and path coefficient analyses in summer sown common vetch (*Vicia sativa* L.) genotypes**
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PAKISTAN JOURNAL OF BOTANY, vol.35, no.3, pp.387-400, 2003 (SCI-Expanded)
- LXVII. **Strains for macro-productivity in common vetch (*Vicia sativa*)**
Cakmakci S., Aydinoglu B., Karaca M.
INDIAN JOURNAL OF AGRICULTURAL SCIENCES, vol.73, no.5, pp.296-297, 2003 (SCI-Expanded)
- LXVIII. **Identification of resistance gene analogs in cotton (*Gossypium hirsutum* L.)**
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- LXIX. **Simple sequence repeats as useful resources to study transcribed genes of cotton**
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- LXX. **Genetic diversity among forage bermudagrass (*Cynodon* spp.): Evidence from chloroplast and nuclear DNA fingerprinting**
Karaca M., SAHA S., ZIPF A., JENKINS J., LANG D.
CROP SCIENCE, vol.42, no.6, pp.2118-2127, 2002 (SCI-Expanded)
- LXXI. **A novel root-specific gene, MIC-3, with increased expression in nematode-resistant cotton (*Gossypium hirsutum* L.) after root-knot nematode infection**
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- LXXII. **Simple sequence repeat (SSR) markers linked to the Ligon lintless (Li-1) mutant in cotton**
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JOURNAL OF HEREDITY, vol.93, no.3, pp.221-224, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **Novel methylation specific bisulfite primer pairs for epigenetic studies of *Capsicum* spp.**
İNCE A. G., KARACA M.
International Journal of Agriculture, Environment and Food Sciences, vol.7, no.4, pp.918-925, 2023 (Peer-Reviewed Journal)
- II. **Sequence data characterization and development of DNA markers for sesame (*Sesamum indicum* L.)**
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- III. **Epigenetic Mechanism and Epigenetic Approaches in Agricultural Production**
İNCE A. G., KARACA M.
Türk Bilimsel Derlemeler Dergisi, vol.12, no.2, pp.51-58, 2019 (Peer-Reviewed Journal)
- IV. **Cytosine methylation polymorphisms in cotton using TD-MS-RAPD-PCR**

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- V. **Yeni Nesil Bitki Islahı Yöntemleri (Moleküler Bitki Islahı) Bazı Avantaj Dezavantajları**
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- VI. **Primer Pairs for Rice (*Oryza sativa* L.) Bisulfite Sequencing Studies**
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- VII. **Development and Utilization of Bisulfite Specific Primer Pairs for Epigenetic Studies in *Solanum lycopersicum* L.**
İNCE A. G., KARACA M.
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- VIII. **Microsatellite Distribution and Densities in Promoter and Gene Body Entities of Some Plant Genes**
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- IX. **Descriptive Statistics and PIC Values of Genomic- and Transcriptomic-Microsatellites in Several Plant Species**
İNCE A. G., KARACA M., UYGUR GÖÇER E., AYDIN A.
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- X. **Genetic Relationships Among Continental Cotton Species Based On ITS1 Gene Region Aligned With Different Alignment Tools**
İNAL B., AYDIN A., İNCE A. G., KARACA M.
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- XI. **Analysis of housekeeping and tissue specific ESTs for inexact microsatellites in *Capsicum* L.**
İNCE A. G., KARACA M.
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- XII. **Bisulfite primer pairs for analysis of cotton (*Gossypium* spp.) DNA methylation**
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- XIII. **Exonic and intronic DNA methylation differences in a fiber specific gene of Pima cotton (*Gossypium barbadense* L.)**
KARACA M., İNCE A. G., UYGUR GÖÇER E., AYDIN A.
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- XV. **EpiOne: A software tool for identification of potential cytosine DNA methylation marks in promoters and gene bodies**
KARACA M., İNCE A. G.
JOURNAL OF SCIENTIFIC AND ENGINEERING RESEARCH, vol.3, no.3, pp.295-301, 2016 (Peer-Reviewed Journal)
- XVI. **Genetic characterization of some commercial cotton varieties using Td-DAMD-PCR markers**
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Karaca M., İnce A. G., TUBITAK Project, Mısır Bitkisinde (*Zea mays L.*) DNA Metilasyon Kalıtım Modlarının Belirlenmesi ve Heterosis ile İlişkileri Üzerine Bir Araştırma, 2018 - 2020

BİLGİN M., KARACA M., EU Supported Other Project, Pamuk Lif ve Ovul Gelişiminde DNA Sitozin Metilasyonunun Epigenetik Regülasyonu Üzerine Bir Araştırma, 2012 - 2014

Scientific Refereeing

INDUSTRIAL CROPS AND PRODUCTS, SCI Journal, April 2016

PLANT BREEDING, SCI Journal, March 2016

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BIOCHEMICAL SYSTEMATICS AND ECOLOGY, SCI Journal, February 2016

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Metrics

Publication: 236

Citation (WoS): 888

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Congress and Symposium Activities

Plant Biology, Attendee, Texas, United States Of America, 2016

Global Biotechnology Congress, Attendee, Massachusetts, United States Of America, 2014

Scholarships

Yurtdışı Yüksek Öğretim Eğitim Bursu, Ministry of Education, 1993 - Continues

Awards

KARACA M., Bilim Ödülü, Ziraat Mühendisleri Odası, January 2012

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Artistic Activity

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