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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 (GOSSYPIUM L.) kromozom substitüsüyon hatlarının mikrosatellit markırları kullanılarak belirlenmesi, Postgraduate, A.Aydın(Student), 2013

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

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A DNA Extraction Method for Nondestructive Testing and Evaluation of Cotton Seeds (*Gossypium L.*)**
KARACA M., İNCE A. G.
Biochemical Genetics, vol.62, no.2, pp.1347-1364, 2024 (SCI-Expanded)
- II. **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)
- III. **Grafting-induced seed gossypol levels by demethylation of (+)-delta-cadinene synthase genes in**

- upland cotton**
KARACA M., İNCE A. G.
Plant Breeding, vol.142, no.1, pp.97-108, 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**
KARACA M., İNCE A. G., Reddy U. K.
SCIENTIFIC REPORTS, vol.10, no.1, 2020 (SCI-Expanded)
- VI. **Hybridization studies in Vicia sativa complex**
Kartal G. K., Senbek G., KARACA M., Acikgoz E.
EUPHYTICA, vol.216, no.2, 2020 (SCI-Expanded)
- 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.
TURKISH JOURNAL OF BIOLOGY, vol.39, no.2, pp.290-298, 2015 (SCI-Expanded)
- 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)
- XIX. **Cross-genera transferable e-microsatellite markers for 12 genera of the Lamiaceae family**
KARACA M., İNCE A. G., Aydin 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., INCE A. G., KARACA M.
BULLETIN OF THE VETERINARY INSTITUTE IN PULAWY, vol.57, no.2, pp.173-177, 2013 (SCI-Expanded)
- XXI. **Tumour Markers in Peritoneal Washing Fluid - Contribution to Cytology**
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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., Yıldız 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., INCE 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**
INCE 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.
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- 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., KURKCUOGLU M., INCE 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.
PLANT MOLECULAR BIOLOGY REPORTER, vol.28, no.2, pp.285-291, 2010 (SCI-Expanded)
- XL. A reliable gender diagnostic PCR assay for jojoba (*Simmondsia chinensis* (Link) Schneider)**
İNCE A. G., KARACA M., ONUS A. N.
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- XLI. Screening of nine organelle DNA loci for polymorphism in twenty-two medicinal and aromatic plant species**
İNCE A. G., KARACA M., TURGUT K.
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- XLII. Mono- and di-nucleotide repeat DNA contents differ in dioecious Asparagus (*Asparagus officinalis* L.)**
İNCE A. G., KARACA M., ONUS A. N.
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- 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)
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İNCE A. G., KARACA M., ONUS A. N.
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- 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)
- L.I. 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.
African Journal of Traditional, AFRICAN JOURNAL OF TRADITIONAL COMPLEMENTARY AND ALTERNATIVE MEDICINES, vol.6, pp.340, 2009 (SCI-Expanded)
- L.II. An in silico analysis of ginger expressed sequence tags for microsatellites
İNCE A. G., KARACA M., ONUS A. N.
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- L.III. Effects of spent mushroom compost on quality and productivity of cucumber (*Cucumis sativus L.*) grown in greenhouses
POLAT E., UZUN H. İ., TOPCUOGLU B., OENAL K., ONUS A. N., KARACA M.
AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.8, no.2, pp.176-180, 2009 (SCI-Expanded)
- L.IV. 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)
- L.V. Comparison of STS-PCR, RAPD-PCR, DAMD-PCR for *Pholomis*, *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)
- L.VI. The MAGi RNA extraction method: a highly efficient and simple procedure for fresh and dry plant tissues
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JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.89, no.1, pp.168-176, 2009 (SCI-Expanded)
- L.VII. 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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- L.VIII. Digital differential display tools for mining microsatellite containing organism, organ and tissue
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- L.IX. Ministellites as DNA markers to classify bermudagrasses (*Cynodon spp.*): confirmation of minisatellite in amplified products
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- L.X. Relationship between chlorophyll content and canopy reflectance in Washington navel orange trees (*Citrus sinensis* (L.) Osbeck)
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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
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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.)**
 Karaca M., SAHA S., CALLAHAN F., JENKINS J., READ J., PERCY R.
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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*)**
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 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.)**
 TAN H., CALLAHAN F., ZHANG X., Karaca M., SAHA S., JENKINS J., CREECH R.
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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**
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- 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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- I. **Determination of Cotton (*Gossypium* L.) Chromosome Substitution Lines Using CAPS-SSR Markers**
 aydin a., Karaca M.
 Black Sea Journal of Engineering and Science, vol.7, no.2, pp.307-315, 2024 (Peer-Reviewed Journal)
- II. **Novel methylation specific bisulfite primer pairs for epigenetic studies of Capsicum spp.**
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- III. **Sequence data characterization and development of DNA markers for sesame (*Sesamum indicum* L.)**
 KARACA M., İNCE A. G.
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- IV. **Epigenetic Mechanism and Epigenetic Approaches in Agricultural Production**

- İNCE A. G., KARACA M.
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- V. Cytosine methylation polymorphisms in cotton using TD-MS-RAPD-PCR
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- VI. Yeni Nesil Bitki İslahı Yöntemleri (Moleküler Bitki İslahı) Bazı Avantaj Dezavantajları
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- IX. Development and Utilization of Bisulfite Specific Primer Pairs for Epigenetic Studies in *Solanum lycopersicum L.*
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- X. Descriptive Statistics and PIC Values of Genomic- and Transcriptomic-Microsatellites in Several Plant Species
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- XI. Genetic Relationships Among Continental Cotton Species Based On ITS1 Gene Region Aligned With Different Alignment Tools
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- XVI. EpiOne: A software tool for identification of potential cytosine DNA methylation marks in promoters and gene bodies
KARACA M., INCE A. G.
JOURNAL OF SCIENTIFIC AND ENGINEERING RESEARCH, vol.3, no.3, pp.295-301, 2016 (Peer-Reviewed Journal)
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Scientific Refereeing

INDUSTRIAL CROPS AND PRODUCTS, SCI Journal, April 2016
PLANT BREEDING, SCI Journal, March 2016
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Metrics

Publication: 237
Citation (WoS): 888
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Congress and Symposium Activities

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

Scholarships

Yurdışı 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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