

## **Prof. Dr. MEHMET KARACA**

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### **Eğitim Bilgileri**

Post Doktora, Mississippi State University, Plant And Soil Sciences, Plant Sciences, Amerika Birleşik Devletleri 2001 - 2001

Doktora, Mississippi State University, Life Sciences, Plant Sciences, Molecular Biology, Amerika Birleşik Devletleri 1996 - 2001

### **Araştırma Alanları**

Tarımsal Bilimler, Ziraat, Tarla Bitkileri, Biyoteknoloji ve Genetik, Moleküler Genetik

### **Akademik Unvanlar / Görevler**

Doç. Dr., Akdeniz Üniversitesi, Ziraat Fakültesi, Tarla Bitkileri, 2001 - Devam Ediyor

### **Yönetilen Tezler**

KARACA M., Pamuk (GOSSYPIUM L.) kromozom substitüsyon hatlarının mikrosatellit markırları kullanılarak belirlenmesi, Yüksek Lisans, A.Aydın(Öğrenci), 2013

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### **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **A DNA Extraction Method for Nondestructive Testing and Evaluation of Cotton Seeds (Gossypium L.)**  
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- II. **Grafting and Rootstock Effects on Seed Oil Contents in Tetraploid Cotton Species (Gossypium L.)**  
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- IV. **Tissue and/or developmental stage specific methylation of nrDNA in Capsicum annuum**  
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- VI. **Hybridization studies in Vicia sativa complex**  
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- VII. **Conservation of Biodiversity and Genetic Resources for Sustainable Agriculture**  
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- VIII. **SINGLE COTTON SEED DNA EXTRACTION WITHOUT THE USE OF ENZYMES AND LIQUID NITROGEN**  
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- IX. **An alternative way to assign the chromosome location of genes/markers in cotton**  
AYDIN A., KARACA M.  
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- X. **Cleaved minisatellite locus (CML) markers for fingerprinting of cotton cultivars grown in Turkey**  
UYGUR GÖÇER E., KARACA M.  
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- XI. **Association between cytosine methylation and tissue specific expression of microsatellites**  
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- XII. **Preliminary studies on differential methylation in A and D sub-genomes of Upland cotton (Gossypium hirsutum L.)**  
KARACA M., İNCE A. G.  
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- XIII. **Microsatellites for genetic and taxonomic research on thyme (Thymus L.)**  
KARACA M., İNCE A. G., Aydin A., ELMASULU S., TURGUT K.  
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- XIV. **E-microsatellite markers for some naturally occurring Salvia species in the Mediterranean region**  
İnce A. G., KARACA M.  
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- 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.  
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- XVI. **Td-DAMD-PCR assays for fingerprinting of commercial carnations**  
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- XVII. **New microsatellite and CAPS-microsatellite markers for clarifying taxonomic and phylogenetic relationships within Origanum L.**  
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- XVIII. **Roles for Paraoxonase but not Ceruloplasmin in Peritoneal Washing Fluid in Differential Diagnosis of Gynecologic Pathologies**

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- 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.  
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- XXII. **The MAGi DNA extraction method for fresh tissues and dry seeds**  
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- XXIII. **Genetic variation in common bean landraces efficiently revealed by Td-DAMD-PCR markers**  
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- XXIV. **Another CAPS DNA marker for sex identification in jojoba seedlings**  
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- XXV. **Comparison of multiple DNA alignment algorithms for Labiatae molecular phylogeny inferences**  
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- XXVI. **Transferability of EST-microsatellite markers to some Labiatae genera**  
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- XXX. **Classification of 63 Origanum taxa based on microsatellite markers and essential oil composition**  
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- 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.)**  
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- XXXIII. **Exact Microsatellite Density Differences among Capsicum Tissues and Development Stages**  
İNCE A. G., KARACA M., ONUS A. N.  
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- XXXIV. **CAPS-microsatellites are suitable for ginger (*Zingiber officinale Roscoe*) genetic studies**  
İNCE A. G., KARACA M., ONUS A. N.

- PLANTA MEDICA, cilt.76, sa.12, ss.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, cilt.11, sa.3, ss.1123-1126, 2010 (SCI-Expanded)
- XXXVI. **The first report of microsatellite primer pairs for genetic studies in jojoba [Simmondsia chinensis (Link) Schneider]**  
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- XXXVIII. **CAPS and DAMD-PCR Assays for Species Identification of *Convolvulus* L. (Convolvulaceae)**  
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- XL. **A reliable gender diagnostic PCR assay for jojoba (*Simmondsia chinensis* (Link) Schneider)**  
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- XLI. **Screening of nine organelle DNA loci for polymorphism in twenty-two medicinal and aromatic plant species**  
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- XLII. **Mono- and di-nucleotide repeat DNA contents differ in dioecious Asparagus (*Asparagus officinalis* L.)**  
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- XLIV. **CAPS-microsatellites: use of CAPS method to convert non-polymorphic microsatellites into useful markers**  
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- XLV. **Genetic Relationships Within and Between Capsicum Species**  
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- XLVI. **PCR based minisatellites are useful in *Origanum*, *Thymus*, *Sideritis* and *Salvia* genetic studies**  
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- XLVII. **Development of microsatellite primer pairs for *Cynara cardunculus* var. *scolymus* (L.) Fiori**  
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- XLVIII. **Differential expression of microsatellites in leaves and rhizomes of Turmeric (*Curcuma longa* Linn.)**  
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***  
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- L. **Development and utilization of diagnostic DAMD-PCR markers for Capsicum accessions**

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İNCE A. G., KARACA M., ONUS A. N.  
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- 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, cilt.8, sa.2, ss.176-180, 2009 (SCI-Expanded)
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- L.V. Comparison of STS-PCR, RAPD-PCR, DAMD-PCR for *Pholomis*, *Melissa*, *Origanum*, *Rosmarinus* and *Sideritis* species  
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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.*)  
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- LXII. Coisolation of genomic and organelle DNAs from 15 genera and 31 species of plants  
Karaca M., İnce 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.)**  
 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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- LXVII. **Strains for macro-productivity in common vetch (*Vicia sativa*)**  
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- 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**  
 Karaca M., SAHA S., ZIPF A., JENKINS J., LANG D.  
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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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- LXXII. **Simple sequence repeat (SSR) markers linked to the Ligon lintless (Li-1) mutant in cotton**  
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## Diğer Dergilerde Yayınlanan Makaleler

- I. **CAPS-SSR Markırları Kullanılarak Pamuk Kromozom Subsitüsyon Hatlarının Belirlenmesi**  
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- II. **Novel methylation specific bisulfite primer pairs for epigenetic studies of Capsicum spp.**  
 İNCE A. G., KARACA M.  
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- III. **Sequence data characterization and development of DNA markers for sesame (*Sesamum indicum* L.)**  
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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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- VII. **Primer Pairs for Rice (*Oryza sativa L.*) Bisulfite Sequencing Studies**  
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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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İNAL B., AYDIN A., İNCE A. G., KARACA M.  
Journal of Molecular Biology and Biotechnology, cilt.2, sa.1, ss.1-6, 2017 (Hakemli Dergi)
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