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Education Information

Doctorate, Akdeniz University, Institute of Science, Tarla Bitkileri Anabilim Dalı, Turkey 2013 - Continues

Postgraduate, Akdeniz University, Institute of Science, Tarla Bitkileri Anabilim Dalı, Turkey 2010 - 2012

Undergraduate, Akdeniz University, Faculty of Agriculture, Department of Field Crops, Turkey 2004 - 2009

Dissertations

Postgraduate, PAMUK (GOSSYPIMUM L.) KROMOZOM SUBSTİTÜSYON HATLARININ MİKROSATELLİT MARKIRLARI KULLANILARAK BELİRLENMESİ, Akdeniz University, Fen Bilimleri, Tarla Bitkileri Anabilim Dalı, 2013

Research Areas

Agricultural Sciences, Agriculture, Infield Plants, Biotechnology and Genetics, Molecular Biotechnology, Molecular Genetics, Life Sciences, Biotechnology, Plant Biotechnology, Natural Sciences

Academic Titles / Tasks

Research Assistant, Akdeniz University, Faculty of Agriculture, Tarla Bitkileri, 2010 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)

- VI. **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)

Articles Published in Other Journals

- I. **Cytosine methylation polymorphisms in cotton using TD-MS-RAPD-PCR**
KARACA M., Aydin A., İNCE A. G.
MODERN PHYTOMORPHOLOGY, vol.13, pp.13-19, 2019 (ESCI)
- II. **Microsatellite Distribution and Densities in Promoter and Gene Body Entities of Some Plant Genes**
KARACA M., İNCE A. G., UYGUR GÖÇER E., AYDIN A.
Journal of Scientific and Engineering Research, vol.4, no.11, pp.154-163, 2017 (Peer-Reviewed Journal)
- III. **Descriptive Statistics and PIC Values of Genomic- and Transcriptomic-Microsatellites in Several Plant Species**
İNCE A. G., KARACA M., UYGUR GÖÇER E., AYDIN A.
Journal of Scientific and Engineering Research, vol.4, no.11, pp.236-246, 2017 (Peer-Reviewed Journal)
- IV. **Bisulfite primer pairs for analysis of cotton (*Gossypium* spp.) DNA methylation**
KARACA M., İNCE A. G., UYGUR GÖÇER E., AYDIN A.
JOURNAL OF SCIENTIFIC AND ENGINEERING RESEARCH, vol.3, no.3, pp.656-668, 2016 (Peer-Reviewed Journal)
- V. **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.
JOURNAL OF SCIENTIFIC AND ENGINEERING RESEARCH, vol.3, no.4, pp.478-486, 2016 (Peer-Reviewed Journal)
- VI. **Level of DNA methylation in internal transcribed spacers (ITS1, ITS2) and 5.8S rRNA sequences**
AYDIN A., KARACA M., İNCE A. G.
JOURNAL OF ECOSYSTEM & ECOGRAPHY, vol.4, no.3, pp.67, 2015 (Peer-Reviewed Journal)
- VII. **Level of DNA methylation in internal transcribed spacers (ITS1, ITS2) and 5.8S rRNA sequences**
AYDIN A., KARACA M., İNCE A. G.
JOURNAL OF ECOSYSTEM & ECOGRAPHY, vol.4, no.3, pp.67, 2015 (Peer-Reviewed Journal)
- VIII. **Organelle genome diversity in species of *Origanum* and *Thymus* naturally occurring in Turkey**
KARACA M., İNCE A. G., UYGUR GÖÇER E., AYDIN A.
JOURNAL OF ECOSYSTEM & ECOGRAPHY, vol.4, no.3, pp.65, 2015 (Peer-Reviewed Journal)
- IX. **Organelle genome diversity in species of *Origanum* and *Thymus* naturally occurring in Turkey**
KARACA M., İNCE A. G., UYGUR GÖÇER E., AYDIN A.
JOURNAL OF ECOSYSTEM & ECOGRAPHY, vol.4, no.3, pp.65, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Genic Microsatellite Primer Pairs in *Ipomea batatas* (L.) Lam.(Convolvulaceae)**
İNCE A. G., KARACA M., UYGUR GÖÇER E., AYDIN A.
VI. International Molecular Biology and Biotechnology Congress, 22 - 25 December 2017
- II. **Dominant and Codominant Scoring of Microsatellite Markers Affect Spatial Relationships among Cotton Varieties**
AYDIN A., İNCE A. G., UYGUR GÖÇER E., KARACA M.
VI. International Molecular Biology and Biotechnology Congress, 22 - 25 December 2017
- III. **Comparison of Bisulfite Sequencing and Whole Genome Bisulfite Sequencing for Epigenetic Research**

in Plants

KARACA M., İNCE A. G., UYGUR GÖÇER E., AYDIN A.

VI. International Molecular Biology and Biotechnology Congress, 22 - 25 December 2017

- IV. **A set of Multiplex Panel of Microsatellite Markers for Economical and Rapid Molecular Characterization of Maize Varieties**
UYGUR GÖÇER E., İNCE A. G., AYDIN A., KARACA M.
VI. International Molecular Biology and Biotechnology Congress, 22 - 25 December 2017
- V. **Investigating the Role of DNA Methylation for Hybrid Vigor (Heterosis) in Maize**
UYGUR GÖÇER E., İNCE A. G., AYDIN A., KARACA M.
VI. International Molecular Biology and Biotechnology Congress, 22 - 25 December 2017
- VI. **Using the ITS1 gene region and different alignment tools to reveal the genetic relationship between cotton species spreading in different continents**
KARACA M., İNAL B., AYDIN A., İNCE A. G.
VI. International Molecular Biology and Biotechnology Congress, 22 - 25 December 2017
- VII. **Utilization of EST Resources of *Perilla frutescens* L. for SSR Markers Development**
İNCE A. G., KARACA M., AYDIN A.
I. International Congress on Medicinal and Aromatic Plants: "Natural and Healthy Life", Konya, Turkey, 10 - 12 May 2017, pp.1724-1725
- VIII. **Next Generation DNA Markers in *Salvia* L. for Engineering of High-Quality Plants with Enhanced Active Ingredients**
KARACA M., İNCE A. G., AYDIN A.
I. International Congress on Medicinal and Aromatic Plants: "Natural and Healthy Life", Konya, Turkey, 10 - 12 May 2017, pp.1648-1649
- IX. **Resolutions of Minisatellite (DAMD-PCR) and Microsatellite (SSR) Markers in *Salvia* L.**
KARACA M., İNCE A. G., AYDIN A.
I. International Congress on Medicinal and Aromatic Plants: "Natural and Healthy Life", Konya, Turkey, 10 - 12 May 2017, pp.1690-1691
- X. **DNA Metilasyon Yöntemleri**
AYDIN A., UYGUR GÖÇER E.
11. Tarla Bitkileri Kongresi, Çanakkale, Turkey, 7 - 10 September 2015, pp.468
- XI. **Cytosine methylation differences between long and short fiber cells of upland cotton**
KARACA M., İNCE A. G., AYDIN A., UYGUR GÖÇER E.
Global Biotechnology Congress, Boston, United States Of America, 16 - 19 June 2014, pp.1-286
- XII. **Do short fiber cells of upland and pima cotton show different levels of DNA methylation?**
AYDIN A., UYGUR GÖÇER E., İNCE A. G., KARACA M.
Global Biotechnology Congress, Boston, United States Of America, 16 - 19 June 2014, pp.1-284
- XIII. **Cytosine methylation differences between long and short fiber cells of upland cotton**
KARACA M., İNCE A. G., AYDIN A., UYGUR GÖÇER E.
Global Biotechnology Congress, Boston, United States Of America, 16 - 19 June 2014, pp.1-286
- XIV. **Do short fiber cells of upland and pima cotton show different levels of DNA methylation?**
AYDIN A., UYGUR GÖÇER E., İNCE A. G., KARACA M.
Global Biotechnology Congress, Boston, United States Of America, 16 - 19 June 2014, pp.1-284
- XV. **Moleküler markır tekniklerinin gelişimi ve bitki ıslahı ve tohumculukta kullanım alanları**
İNCE A. G., AYDIN A., KARACA M., ONUS A. N.
Türkiye IV Tohumculuk Kongresi, Samsun, Turkey, 14 - 17 June 2011, pp.264-270
- XVI. **Moleküler markır tekniklerinin gelişimi ve bitki ıslahı ve tohumculukta kullanım alanları**
İNCE A. G., AYDIN A., KARACA M., ONUS A. N.
Türkiye IV Tohumculuk Kongresi, Samsun, Turkey, 14 - 17 June 2011, pp.264-270
- XVII. **Moleküler markır tekniklerinin gelişimi ve bitki ıslahı ve tohumculukta kullanım alanları**
İNCE A. G., AYDIN A., KARACA M., ONUS A. N.
Türkiye IV Tohumculuk Kongresi, Samsun, Turkey, 14 - 17 June 2011, pp.264-270

Supported Projects

KARACA M., AYDIN A., Project Supported by Higher Education Institutions, Türkiye'de Tescillenmiş Bazı Ticari Pamuk Çeşitlerinin Moleküler Karakterizasyonu Üzerine Bir Araştırma, 2018 - 2019

Metrics

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