

Assoc. Prof. MELİKE BAKIR

Personal Information

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Education Information

Doctorate, Ankara Üniversitesi, Biyoteknoloji Enstitüsü, Temel Biyoteknoloji, Turkey 2007 - 2012

Post Graduate, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Biyoteknoloji Abd, Turkey 2005 - 2006

Under Graduate, Ankara Üniversitesi, Fen Fakültesi, Biyoloji Bölümü, Turkey 2000 - 2004

Certificates, Courses and Trainings

Education Management and Planning, GeXP Genetik Analiz Sistemi, Ankara Üniversitesi-Biyoteknoloji Enstitüsü, 2012

Education Management and Planning, Lightcycler 480 - Basic Software, Ankara Üniversitesi-Biyoteknoloji Enstitüsü, 2007

Education Management and Planning, Affymetrix Microarray Hedef RNA Ekspresyon Çalışması Laboratuvar ve Analiz programı, Ankara Üniversitesi-Biyoteknoloji Enstitüsü, 2007

Education Management and Planning, CEQ 8800 Genetik Analiz Sistemi, Ankara Üniversitesi-Biyoteknoloji Enstitüsü, 2006

Dissertations

Doctorate, Asma çeşit ve anaçlarında kuraklık ve tuz stresi toleransına yönelik mikrodizin (mikroarray) analizleri ve stres ile ilgili transkriptomların tespiti, Ankara Üniversitesi, Biyoteknoloji Enstitüsü, Temel Biyoteknoloji , 2012

Post Graduate, Kalsiyum alginatta immobilize edilen termofil Phormidium sp. ile boya giderimi, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Biyoloji Abd, 2006

Research Areas

Life Sciences, Plant Biology, Plant Breeding and Genetics, Biotechnology, Plant Biotechnology, Molecular Biology and Genetics, Plant Molecular Genetics, Natural Sciences

Academic Titles / Tasks

Associate Professor, Erciyes University, Seyrani Ziraat Fakültesi, Tarımsal Biyoteknoloji, 2020 - Continues

Assistant Professor, Erciyes University, Tarımsal Biyoteknoloji, 2018 - 2020

Assistant Professor, Erciyes Üniversitesi, Ziraat Fakültesi, Tarımsal Biyoteknoloji, 2015 - 2018

Expert, Ondokuz Mayıs Üniversitesi, Karadeniz İleri Teknoloji Araştırma Ve Uygulama Merkezi, Biyoteknoloji, 2014 - 2015

Other, Ankara Üniversitesi, Biyoteknoloji Enstitüsü, Bitki Biyoteknolojisi, 2006 - 2012

Courses

Molecular Cell Biology, Under Graduate, 2020 - 2021

Plant Tissue Culture, Under Graduate, 2020 - 2021

Advising Theses

Bakır M., DEVELOPMENT OF NEW SSR (Simple Sequence Repeats) MARKERS FOR LENTILS (*Lens culinaris* Medik.) FROM GENOMIC LIBRARY ENRICHED WITH AG AND AC MICROSATELLITES AND TRANSFERABILITY OF OTHER LEGUME SPECIES ütüphanelerden yeni ssrs (simple sequence repeats) markörlerin geliştirilmesi ve diğer baklagil türlerine transfer edilebilirliğinin test edilmesi, Post Graduate, Ş.DEMİR(Student), 2020

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Inheritance and Expressivity of Neoplasm Trait in Crosses between the Domestic Pea (*Pisum sativum* subsp. *sativum*) and Tall Wild Pea (*Pisum sativum* subsp. *elatius*)**
SARI H., Sari D., Eker T., AYDINOĞLU B., ÇANCI H., İKTEN C., GÖKTÜRK R. S., Zeybek A., BAKIR M., Smykal P., et al.
AGRONOMY-BASEL, vol.10, no.12, 2020 (Journal Indexed in SCI)
- II. **Salt stress induces endoplasmic reticulum stress-responsive genes in a grapevine rootstock**
Çakır A., Yüksel Ö., Kibar U., Mutaf F., Büyük P., Bakır M., Ergül A.
PLOS ONE, vol.15, no.7, 2020 (Journal Indexed in SCI)
- III. **Transferability of newly developed genomic lentil SSR markers to Cicer species**
BAKIR M.
Legume Research, vol.42, no.4, pp.479-484, 2019 (Journal Indexed in SCI)
- IV. **Development of New SSR (Simple Sequence Repeat) Markers for Lentils (*Lens culinaris* Medik.) from Genomic Library Enriched with AG and AC Microsatellites**
BAKIR M., Kahraman A.
BIOCHEMICAL GENETICS, vol.57, no.2, pp.338-353, 2019 (Journal Indexed in SCI)
- V. **Spring late frost resistance of selected wild apricot genotypes (*Prunus armeniaca* L.) from Cappadocia region, Turkey**
Dumanoglu H., Erdogan V., Kesik A., Dost S. E., Delialioglu R. A., Kocabas Z., Ernim C., Macit T., BAKIR M., BAKIR M.
SCIENTIA HORTICULTURAE, vol.246, pp.347-353, 2019 (Journal Indexed in SCI)
- VI. **Characterization of Wild Apricot (*Prunus armeniaca* L.) Genotypes Selected from Cappadocia Region (Nevsehir-Turkey) by SSR Markers**
Baker M., Dumanoglu H., Erdogan V., Ernim C., Macit T.
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BILIMLERI DERGISI, vol.25, no.4, pp.498-507, 2019 (Journal Indexed in SCI)
- VII. **Relationship between transgressive segregations and genetic distances based on SRR markers in *Pisum* species**
TOKER C., BAKIR M., SARI H., SARI D., ADAK A., EKER T., ÇANCI H., MUTLU N., SMYKAL P.
Journal Of Biotechnology, vol.280, pp.28, 2018 (Journal Indexed in SCI Expanded)
- VIII. **Genetic diversity among olive genotypes from Mersin province of Turkey revealed by SSR markers**
Unver H., Sakar E., ULAS M., BAKIR M., Sakar Z. M., ERCİŞLİ S.
Comptes Rendus de L'Academie Bulgare des Sciences, vol.70, no.1, pp.71-80, 2017 (Journal Indexed in SCI)
- IX. **Genetic Relationships Among Olive (*Olea europaea* L.) Cultivars Native to Turkey**
Sakar E., Unver H., BAKIR M., ULAS M., Sakar Z. M.
Biochemical Genetics, vol.54, no.4, pp.348-359, 2016 (Journal Indexed in SCI)
- X. **Genetic analysis of Anatolian apples (*Malus* sp.) by simple sequence repeats**
BURAK M., Ergul A., KAZAN K., AKCAY M. E., Yuksel C., Bakir M., Mutaf F., Akpınar A. E., YASASIN A. S., AYANOGLU H.
JOURNAL OF SYSTEMATICS AND EVOLUTION, vol.52, no.5, pp.580-588, 2014 (Journal Indexed in SCI)

- XI. **Genetic analysis of Anatolian pear germplasm by simple sequence repeats**
AKCAY M. E. , BURAK M., KAZAN K., Yuksel C., Mutaf F., Bakir M., AYANOGLU H., Ergul A.
ANNALS OF APPLIED BIOLOGY, vol.164, no.3, pp.441-452, 2014 (Journal Indexed in SCI)
- XII. **Molecular analysis of East Anatolian traditional plum and cherry accessions using SSR markers**
OZ M. H. , VURGUN H., Bakir M., Buyuk I., Yuksel C., UNLU H. M. , CUKADAR K., KARADOGAN B., Kose O., Ergul A.
GENETICS AND MOLECULAR RESEARCH, vol.12, no.4, pp.5310-5320, 2013 (Journal Indexed in SCI)
- XIII. **Molecular characterization of autochthonous Turkish fig accessions**
Caliskan O., Polat A. A. , Celikkol P., Bakir M.
SPANISH JOURNAL OF AGRICULTURAL RESEARCH, vol.10, no.1, pp.130-140, 2012 (Journal Indexed in SCI)
- XIV. **Genetic characterization of grape (*Vitis vinifera* L.) germplasm from Southeast Anatolia by SSR markers**
BOZ Y., Bakir M., Celikkol B. P. , KAZAN K., Yilmaz F., Cakir B., Aslantas S., Soylemezoglu G., YASASIN A. S. , OZER C., et al.
VITIS, vol.50, no.3, pp.99-106, 2011 (Journal Indexed in SCI)
- XV. **Detection of Pathotypes and Genetic Diversity of *Cercospora beticola***
TURGAY E. B. , Bakir M., Ozeren P., Katircioglu Y. Z. , Maden S.
PLANT PATHOLOGY JOURNAL, vol.26, no.4, pp.306-312, 2010 (Journal Indexed in SCI)
- XVI. **SSR-based molecular analysis of economically important Turkish apricot cultivars**
Akpınar A. E. , KOCAL H., Ergul A., KAZAN K., Selli M. E. , Bakir M., Aslantas S., KAYMAK S., SARIBAS R.
GENETICS AND MOLECULAR RESEARCH, vol.9, no.1, pp.324-332, 2010 (Journal Indexed in SCI)
- XVII. **Genetic characterization of pea (*Pisum sativum*) germplasm from Turkey using morphological and SSR markers**
Sarıkamis G., Yanmaz R., ERMIS S., Bakir M., Yuksel C.
GENETICS AND MOLECULAR RESEARCH, vol.9, no.1, pp.591-600, 2010 (Journal Indexed in SCI)
- XVIII. **Genetic diversity of eggplant (*Solanum melongena*) germplasm from Turkey assessed by SSR and RAPD markers**
Demir K., Bakir M., Sarıkamis G., Acunalp S.
GENETICS AND MOLECULAR RESEARCH, vol.9, no.3, pp.1568-1576, 2010 (Journal Indexed in SCI)
- XIX. **Simple sequence repeat-based assessment of genetic relationships among *Prunus* rootstocks**
Turkoglu Z., Bilgener S., Ercisli S., Bakir M., KOC A., AKBULUT M., Gercekcioglu R., Gunes M., Esitken A.
GENETICS AND MOLECULAR RESEARCH, vol.9, no.4, pp.2156-2165, 2010 (Journal Indexed in SCI)
- XX. **Analysis of clonal variations in cultivated quince (*Cydonia oblonga* 'Kalecik') based on fruit characteristics and SSR markers**
Dumanoglu H., Gunes N. T. , Aygun A., San B., Akpınar A. E. , Bakir M.
NEW ZEALAND JOURNAL OF CROP AND HORTICULTURAL SCIENCE, vol.37, no.2, pp.113-120, 2009 (Journal Indexed in SCI)
- XXI. **Genetic Analysis of Grapevine Cultivars from the Eastern Mediterranean Region of Turkey, Based on SSR Markers**
TANGOLAR S. G. , Soydam S., Bakir M., Karaagac E., TANGOLAR S., Ergul A.
TARIM BILIMLERI DERGISI-JOURNAL OF AGRICULTURAL SCIENCES, vol.15, no.1, pp.1-8, 2009 (Journal Indexed in SCI)
- XXII. **Genetic characterization of green bean (*Phaseolus vulgaris*) genotypes from eastern Turkey**
Sarıkamis G., Yaşar F., Bakir M., KAZAN K., Ergul A.
GENETICS AND MOLECULAR RESEARCH, vol.8, no.3, pp.880-887, 2009 (Journal Indexed in SCI)
- XXIII. **Treatment of dye-rich wastewater by an immobilized thermophilic cyanobacterial strain: *Phormidium* sp.**
Ertugrul S., Bakir M., Donmez G.
ECOLOGICAL ENGINEERING, vol.32, no.3, pp.244-248, 2008 (Journal Indexed in SCI)
- XXIV. **AFLP analysis of genetic diversity in Turkish green plum accessions (*Prunus cerasifera* L.) adapted to the Mediterranean region**
AYANOGLU H., BAYAZIT S., INAN G., Bakir M., AKPINAR A. E. , KAZAN K., ERGUEL A.

SCIENTIA HORTICULTURAE, vol.114, no.4, pp.263-267, 2007 (Journal Indexed in SCI)

XXV. Simple sequence repeat-based assessment of genetic diversity in 'Dimrit' and 'Gemre' grapevine accessions from Turkey

SELLI F., Bakir M., INAN G., AYGUN H. I. , BOZ Y., YASASIN A. S. , OEZER C., AKMAN B., SOEYLEMEZLU G., KAZAN K., et al.

VITIS, vol.46, no.4, pp.182-187, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Characterization of Some Registered Chickpea (*Cicer arietinum* L.) Varieties with Simple Sequence Repetitions (SSRs) Markers**
Turkay Ş. N. , Bakır M.
Journal of the Institute of Science and Technology, vol.11, no.1, pp.732-742, 2021 (National Refreed University Journal)
- II. **Mercimek (*Lens culinaris* M.) DEHYDRATION RESPONSIVE ELEMENTBINDING2A (DREB2A) Geninin Kuraklık Stresi Koşullarındaki İfadesinin Belirlenmesi**
Bakır M.
Ege Üniv. Ziraat Fak., vol.56, no.2, pp.181-185, 2019 (National Refreed University Journal)
- III. **SSR MARKÖRLERİN MERCİMEK GENOM HARİTALAMASINDA KULLANILMASI**
KAHRİMAN A., Akgün Yıldırım Ü., BAKIR M.
Adıyaman Üniversitesi Tarımsal Uygulama ve Arazi Yönetimi Uygulama ve Araştırma Merkezi Dergisi, vol.7, pp.14-22, 2019 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Mercimekte (*Lens culinaris* Medik.) TG/TC Tekrarları ile Yeni SSR Markörlerin Geliştirilmesi**
DEMİR Ş., TURKAY Ş. N. , BAKIR M.
Çukurova I. Uluslararası Multi Disipliner Çalışmalar Kongresi, 1 - 04 November 2018
- II. **Cross-genera/species Transferability of Microsatellite Markers in Plants**
BAKIR M.
International Conference of Genomics and Bioinformatics (ICGB), 1 - 04 November 2018
- III. **Development of Simple Sequence Repeat (SSR) Markers Derived From SSR-Enriched Genomic Library of Lentil (*Lens Culinaris* M.)**
BAKIR M., KAHRİMAN A.
Agrosym2018 (9th International Scientific Agriculture Symposium), 4 - 07 October 2018
- IV. **Genotypes Selected From Cappadocia Region (Nevşehir-Turkey) With SSR Markers**
BAKIR M., DUMANOĞLU H., ERDOĞAN V., ERNİM C., MACİT T.
Agrosym2018 (9th International Scientific Agriculture Symposium), 4 - 07 October 2018
- V. **Salt stress induces Endoplasmic reticulum stress responsive genes in grapevine rootstock,1616C**
ÇAKIR AYDEMİR B., KİBAR U., YÜKSEL C., MUTAF F., ÇELİKKOL P., BAKIR M., ERGÜL A.
30th International Horticultural Congress, 12 - 16 August 2018
- VI. ***Pisum sativum* L. and *P. fulvum* Sibth. et Sm. reciprocal interspecific crosses unearth hidden genes for extreme earliness**
TOKER C., ÇANCI H., BAKIR M., SARI H., SARI D., ADAK A., EKER T., SMYKAL P., MUTLU N., UZUN B.
7. International Food Legume Research Conference (IFLRC VII), May 6-8, 2018, Plais des Congres, Marrakush, Morocco, 6 - 08 May 2018
- VII. **Relationship between transgressive segregations and genetic distance based on SRR markers in interspecific crosses among *Pisum* species**
TOKER C., BAKIR M., SARI H., SARI D., ADAK A., EKER T., ÇANCI H., MUTLU N., SMYKAL P.

European Biotechnology Congress, Athens, Greece, 26 - 28 April 2018

- VIII. **Micropropagation of sugar beet through in vitro culture of axillary buds**
ARSLAN M., BAKIR M., ÖZMEN Ö.
III. INTERNATIONAL PLANT BREEDING CONGRESS, 15 - 19 October 2017
- IX. **Genetic characterization of apple germplasm resources from coastal line of Eastern Black Sea Region in Turkey by SSRs**
DUMANOĞLU H., AYGÜN A., BAKIR M., ERDOĞAN V., SERDAR Ü., KALKIŞIM Ö., BAŞTAŞ K. K.
3rd International Symposium for Agriculture and Food-ISAF 2017, Ohrid, Macedonia, 18 - 20 October 2017, vol.1, pp.242
- X. **Determination of Ascorbate Peroxidase Gene Expression in the Lentil (*Lens Culinaris Medik*) under Drought Stress Conditions**
ÖZDERE M., BAKIR M.
PLANTGEN2017, 29 May - 02 June 2017
- XI. **Nar (*Punica granatum L*) Genomik SSRs (Simple Sequence Repeats) Markörlerinin Geliştirilmesi**
ERGÜL A., BAKIR M.
Ulusal Tarım Kongresi, Turkey, 26 - 29 October 2013
- XII. **Tuz-Kurak Stres Koşullarında Yabani Arpa (*Hordeum spontaneum L.*) Transkriptom Analizleri**
ERGÜL A., BAKIR M., ALTINKUT UNCUOĞLU A., KAZAN K., SCHLAUCH K., CUSHMAN J. C.
Ulusal Tarım Kongresi, Turkey, 26 - 29 October 2013
- XIII. **Morphological and Pomological Characterization and Identification of east Mediterranean and South-Esat Anaotolia Region Olive (*Olea europaea L.*) cultivars with SSR markers**
ÖZKAYA M. T. , ULAŞ M., SAKAR E., ERGÜL A., BAKIR M.
28 th International Horticultural Congress, Lisbon, Portekiz., 22 - 27 August 2010
- XIV. **SSR Based Characterization of Grape (*Vitis vinifera L.*) Germplasm from Southeast Anatolia**
BAKIR M., SÖYLEMEZOĞLU G., ASLANTAŞ Ş., ÇELİKKOL P., YILDIRIM N., YÜKSEL C., YAŞASIN A. S. , BOZ Y., ÖZER C., ÇELİK H., et al.
28 th International Horticultural Congress, 22 - 27 August 2010
- XV. **The Turkish grape (*Vitis vinifera L.*) SSR database**
ERGÜL A., BOZ Y., SÖYLEMEZOĞLU G., KAZAN K., ÇELİK H., BAKIR M., ÇELİKKOL P., YILDIRIM N., YÜKSEL C., YAŞASIN A. S. , et al.
10th International Conference on Grapevine Breeding and Genetics, Geneva, New York, USA, 1 - 05 August 2010

Supported Projects

- Bakır M., Kahrıman A., Sarı Yol D., Project Supported by Higher Education Institutions, Yeni Geliştirilen SSR Markörlerin Mercimek (*Lens culinaris Medik.*) Genomuna Haritalanması ve Yabani Mercimek Türlerine Transfer Edilebilirliğinin Belirlenmesi, 2021 - 2023
- BAKIR M., ÖZAKTAN H., CAN T., KAHRAMAN A., Project Supported by Higher Education Institutions, *Lens culinaris M.*'de microRNA'ların High-Throughput Yöntemlerle Belirlenmesi, 2017 - 2020
- BAKIR M., KAHRAMAN A., Can T., TUBITAK Project, Yabani Nohut Türlerinde de novo Transkriptom Dizileme: Soğuk Toleransında Rolü Olan Gen Adaylarının Belirlenmesi ve Fonksiyonel Markörlerin Geliştirilmesi, 2017 - 2020
- Bakır M., Kahrıman A., TUBITAK Project, Mercimekte (*Lens culinaris Medik.*) Zenginleştirilmiş Genomik Kütüphanelerden Yeni SSRs (Simple Sequence Repeats) Markörlerin Geliştirilmesi ve Diğer Baklagil Türlerine Transfer Edilebilirliğinin Test Edilmesi, 2019 - 2019
- ARSLAN M., Özmen Ö., BAKIR M., BULUT S., TUBITAK Project, Morfolojik ve moleküler yöntemlerle şekerpancarı hatları arasında heterosis oranlarının belirlenmesi, 2015 - 2019
- BAKIR M., KAHRAMAN A., GÜRCAN K., TUBITAK Project, Mercimekte (*Lens culinaris Medik.*) AG ve AC Mikrosatellitlerince Zenginleştirilmiş Genomik Kütüphanelerden Yeni SSRs (Simple Sequence Repeats) Markörlerin Geliştirilmesi, 2015 - 2018
- Dumanoğlu H., Bakır M., TUBITAK Project, Nevşehir Zerdali (*Prunus armeniaca L.*) Gen Kaynaklarının Geç Çiçeklenme,

İlkbahar Ge Donlarına Dayanıklılık, İri Meyvelilik ve Meyvelerin Ge Olgunlařması Karakterine Gre Deęerlendirilmesi,
2014 - 2018

Citations

Total Citations (WOS):277

h-index (WOS):10