

Assoc. Prof. FİGEN ERSOY

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Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyoteknoloji Anabilim Dalı (Disiplinlerarası), Turkey 2001 - 2005

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyoteknoloji Anabilim Dalı (Disiplinlerarası), Turkey 1999 - 2001

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, Turkey 1995 - 1999

Foreign Languages

English, C1 Advanced

Research Areas

Plant Molecular Genetics, Genetic Engineering

Academic Titles / Tasks

Lecturer, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, BİYOLOJİ, 2008 - 2009

Research Assistant, Middle East Technical University, Graduate School Of Natural And Applied Sciences, 1999 - 2006

Courses

Moleküler Hücre Biyolojisi, Undergraduate, 2017 - 2018

Proteomik, Postgraduate, 2017 - 2018

BİTKİ MOLEKÜLER BİYOLOJİSİ, Postgraduate, 2017 - 2018, 2016 - 2017

MOLEKÜLER BİYOLOJİ UYGULAMALARI, Undergraduate, 2017 - 2018, 2016 - 2017

GEN TRANSFER METODLARI ve VEKTÖRLER, Postgraduate, 2017 - 2018, 2016 - 2017

moleküler hücre biyolojisi lab b, Undergraduate, 2017 - 2018

Moleküler Hücre Biyolojisi Lab, Undergraduate, 2017 - 2018

FE Bitirme Projesi, Undergraduate, 2017 - 2018

molecular biology, Undergraduate, 2017 - 2018

Proteomics, Postgraduate, 2017 - 2018

Genetik Mühendislik, Undergraduate, 2017 - 2018
Moleküler Biyoteknoloji, Undergraduate, 2017 - 2018
Moleküler hücre biyolojisi lab a, Undergraduate, 2017 - 2018
GENETİĞİ DEĞİŞTİRİLMİŞ ORGANİZMALAR, Undergraduate, 2017 - 2018, 2016 - 2017
İŞLEVSEL GENOMİK, Postgraduate, 2017 - 2018, 2016 - 2017
transgenik bitki teknolojisi, Undergraduate, 2017 - 2018
Hücre Biyolojisi, Undergraduate, 2016 - 2017
GENETİK, Undergraduate, 2016 - 2017
HÜCRE BİYOLOJİSİ LABORATUVARI, Undergraduate, 2016 - 2017
MOLEKÜLER BİYOLOJİ TEKNİKLERİ, Undergraduate, 2016 - 2017
GENETİK LABORATUVARI, Undergraduate, 2016 - 2017
BİYOİNFORMATİK, Undergraduate, 2016 - 2017

Advising Theses

ORAL H. B., ERSOY F., Cloning and expression of human indolamine -2,3-dioxygenase gene under the control of the ELAM-1 promotor, Postgraduate, M.KARAÇAY(Student), 2017
ERSOY F., Cloning of cas barley homolog and investigation of its expression during powdery mildew disease resistance, Postgraduate, C.SEVİNÇ(Student), 2014
ERSOY F., Identification of soil borne pathogens in wheat using molecular techniques, Postgraduate, K.ESRA(Student), 2014
ERSOY F., Elucidation of the role of GCN2 gene in response to powdery mildew infection, Postgraduate, İ.KUTAY(Student), 2012
ERSOY F., Bio-functional analysis of RAD23 gene using virus induced gene silencing method in response to powdery mildew attack in barley, Postgraduate, Y.AKSOY(Student), 2012
ERSOY F., Determination of the function of SRP72 barley homolog against powdery mildew disease resistance in barley, Postgraduate, S.BERTA(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **DETERMINATION OF DIFFERENTIALLY EXPRESSED LATE RESPONSIVE GENES UPON TREATMENTS OF BTH, BABA AND TRICHODERMA HARZIANUM IN WHEAT**
ERSOY F., Al-Asbahi A. A. S., Akkaya M. S.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.30, pp.7891-7897, 2021 (SCI-Expanded)
- II. **Genotype-Dependent Gene Expression in Strawberry (Fragaria x ananassa) Plants Under High Temperature Stress**
Kesici M., İPEK A., ERSOY F., ERGİN S., GÜLEN H.
BIOCHEMICAL GENETICS, vol.58, no.6, pp.848-866, 2020 (SCI-Expanded)
- III. **Intracerebroventricularly injected nesfatin-1 activates central cyclooxygenase and lipoxygenase pathways**
Guvenc-Bayram G., Altinbas B., Iqbal A., Cerci E., Udum D., Yilmaz M. S., Erdost H., Yalcin-Ulger E., İlhan T., Ersoy F., et al.
AUTONOMIC NEUROSCIENCE-BASIC & CLINICAL, vol.226, 2020 (SCI-Expanded)
- IV. **HvSRP72 silencing enhanced Blumeria graminis f. sp. hordei growth in compatible interaction with barley**
Bedassa S. B., Akkaya M. S., ERSOY F.
JOURNAL OF PLANT PATHOLOGY, vol.101, no.1, pp.91-96, 2019 (SCI-Expanded)
- V. **HvGCN2 silencing in barley displays enhanced Blumeria graminis f. sp hordei susceptibility**
Ozturk I. K., ERSOY F., Akkaya M. S.

- ARCHIVES OF BIOLOGICAL SCIENCES, vol.70, no.3, pp.513-520, 2018 (SCI-Expanded)
- VI. **RAD23 AS A NEGATIVE REGULATOR OF BARLEY POWDERY MILDEW DISEASE RESISTANCE**
Bulduklu Y., ERSOY F., Akkaya M.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.9, pp.6239-6244, 2018 (SCI-Expanded)
- VII. **Partial purification, characterization and wheat bran degradation studies of a new phytase from the Bacillus megaterium EBD 9-1 strain**
DEMİRKAN E., SEVGİ T., Akcakoca D., ERSOY F.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.42, no.3, pp.329-337, 2017 (SCI-Expanded)
- VIII. **High level fluoroquinolone resistance in Escherichia coli isolated from animals in Turkey is due to multiple mechanisms**
Sahinturk P., Arslan E., BÜYÜKCANGAZ E., SONAL S., ŞEN A., ERSOY F., Webber M. A., Piddock L. J. V., CENGİZ M.
TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, vol.40, no.2, pp.214-218, 2016 (SCI-Expanded)
- IX. **Genetic diversity and relationship analysis among accessions of Aegilops ssp in Turkey using amplified fragment length polymorphism (AFLP) markers**
Kaya İ., Kirisozu A. C., Ersoy F., Dere S., Akkaya M. S.
AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.10, no.72, pp.16167-16174, 2011 (SCI-Expanded)
- X. **Detection of physically interacting proteins with the CC and NB-ARC domains of a putative yellow rust resistance protein, Yr10, in wheat**
Yildirim-Ersoy F., Ridout C. J., Akkaya M. S.
JOURNAL OF PLANT DISEASES AND PROTECTION, vol.118, no.3-4, pp.119-126, 2011 (SCI-Expanded)
- XI. **DNA fingerprinting and genetic characterization of Anatolian Triticum spp. using AFLP markers**
Yildirim F., Akkaya M. S.
GENETIC RESOURCES AND CROP EVOLUTION, vol.53, no.5, pp.1033-1042, 2006 (SCI-Expanded)
- XII. **Genetic Marker Mediated Transfer of an Alien Gene, iPM21/i , into Wheat Conferring Resistance to Powdery Mildew/title**
YILDIRIM A., SAKİN M. A., KARADAĞ Y., GÖKMEN S., KANDEMİR N., AKKAYA M., ERSOY F.
Biotechnology & Biotechnological Equipment, vol.18, no.2, pp.15-19, 2004 (SCI-Expanded)
- XIII. **Transfer of stripe rust resistance gene Yr26 to Turkish wheats using microsatellite markers**
Yildirim A., Karadağ Y., Sakin M., Gokmen S., Kandemir N., Akkaya M., Yildirim F.
CEREAL RESEARCH COMMUNICATIONS, vol.32, no.1, pp.25-30, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Gene Cloning Studies of A Novel Phytase From Bacillus megaterium EBD 9-1 Strain**
Zeren B., ERSOY F., DEMİRKAN E.
Journal of Applied Biological Sciences, vol.13, no.1, pp.6-10, 2019 (Peer-Reviewed Journal)
- II. **Effect of Long-Term Centrally Injected Histamine and Its Receptors Antagonist on The Hypothalamic Cyclooxygenase and Lipoxygenase Enzymes in Rats**
YALÇIN M., Baş A., güvenç g., ALTINBAŞ B., Özyurt E., Yalçın Ülger E., ERBAYKENT TEPEDELEN B., ERSOY F.
Journal Of Research In Veterinary Medicine, vol.38, no.2, pp.39-58, 2019 (Peer-Reviewed Journal)
- III. **Arpada Hücresel Apoptoz Hassasiyet (CAS) geninin susturularak külleme hastalığına karşı dirençte etkisinin belirlenmesi**
ERSOY F.
Süleyman Demirel Üniversitesi Ziraat Fakültesi Dergisi, vol.13, no.1, pp.40-51, 2018 (Peer-Reviewed Journal)
- IV. **Fare deneysel artirit modelinde genetik olarak modifiye toleran dentritik hücre tedavisinin bazı kan parametreleri üzerine etkisi**
güvenç g., yılmaz i., Çiftçi K., Baş A., Kaşıkçı E., ERSOY F., ORAL H. B., YALÇIN M.
Uludağ Üniversitesi Veteriner Fakültesi Dergisi, vol.37, no.2, pp.7-11, 2018 (Peer-Reviewed Journal)
- V. **Effect of genetically modified gene tolerant dendritic cell therapy on some blood parameters in experimental mouse arthritis model**

güvenç g., Yılmaz İ., Çiftçi K., Baş A., Kaşıkçı E., ERSOY F., ORAL H. B., YALÇIN M.

Uludağ University Journal of the Faculty of Veterinary Medicine, vol.37, pp.101-107, 2018 (Peer-Reviewed Journal)

VI. **Bursa ilinde şarka hastalığının (Plum pox virus) yaygınlığının belirlenmesi**

SAYDAM C., ARSLAN Ü., ERSOY F., ELİBÜYÜK İ. Ö.

BİTKİ KORUMA BÜLTENİ, vol.58, no.1, pp.1-7, 2018 (Peer-Reviewed Journal)

VII. **Genetic Relationship of Wild Einkorn Based on Geographical Distribution in Anatolia and Thrace using AFLP Markers**

UZ E., ERSOY F., HAKKI E. E., AKKAYA M.

Journal of Applied Biological Sciences, vol.3, no.2, pp.21-26, 2009 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **FİTOHORMON ABSİSİK ASİDİN AKCİĞER KANSERİ HÜCRELERİNDE MOLEKÜLER ETKİLERİ**
KAÇKA D., ERBAYKENT B., ERSOY F.
17th INTERNATIONAL SCIENTIFIC RESEARCH CONGRESS, SCINCE AND ENGINEERING, Ankara, Turkey, 19 - 20 August 2023
- II. **BSMV-IGS as a tool for studying powdery mildew resistance in barley**
ERSOY F.
II. International Agricultural Biological Life Science Conference, Edirne, Turkey, 1 - 03 September 2020, pp.339
- III. **Treatment of collagen-induced arthritis (CIA) in mice model with disease-inducible indoleamine-2,3-dioxygenase (IDO) gene**
yılmaz i., güvenç g., karaçay m., barazi a. ö., ERSOY F., ÖZGÜDEN AKKOÇ C. G., AKKOÇ A., YILMAZTEPE ORAL A., YALÇIN M., ORAL H. B.
5th european congress of immunology, Amsterdam, Netherlands, 2 - 05 September 2018
- IV. **Treatment of collagen-induced arthritis mice model with genetically modified tolerogenic dendritic cells**
yılmaz i., karaçay m., güvenç g., UZ YILDIRIM E., budak f., ERSOY F., YALÇIN M., ORAL H. B.
5th European Congress of Immunology, 2 - 05 September 2018
- V. **Downregulation of CD80/86 expression on the surface of Mouse bone marrow derived dendritic cells via CTLA4 expression in endoplasmic reticulum.**
karaçay m., yılmaz i., güvenç g., UZ E., budak f., ERSOY F., YALÇIN M., ORAL H. B.
World Immune regulation meeting XII, 14 - 17 March 2018
- VI. **Silencing of CD80and CD86 expression on the surface of RAW 264.7 cells via CRISPR/Cas9.**
ardahanlı e., aras m., özkazanç d., UZ E., budak f., ERSOY F., SÜTLÜ T., ORAL H. B.
World Immune regulation meeting XII, 14 - 17 March 2018
- VII. **Endemik Verbascum Bombyciferum Boiss. Türünün Genetik Çeşitliliğinin Issr Yöntemi İle Belirlenmesi**
Güven M., Ersoy F., Yılmaz Ö.
XIII. Uluslararası Katılımlı Ekoloji ve Çevre Kongresi, Edirne, Turkey, 12 - 15 September 2017
- VIII. **Intraarticular delivery of Disease-inducible indole- amine-2,3-dioxygenase gene ameliorates collagen-induced ar- thritis in mice**
karaçay m., güvenç g., yılmaz i., barazi a., ERSOY F., ÖZGÜDEN AKKOÇ C. G., AKKOÇ A., YILMAZTEPE ORAL A., YALÇIN M., ORAL H. B.
World ImmuneRegulation Meeting XI, 15 - 18 March 2017
- IX. **Downregulation of CD80/86 expression on the surface of RAW 264.7 cells via intracellular CTLA4.**
Karaçay M., Yılmaz İ., UZ E., BUDAK F., ERSOY F., ORAL H. B.
11th World Immune Regulation Meeting (WIRM 2017), 15 - 18 March 2017
- X. **Distribution of Sharka Disease Plum pox virus in Bursa Northwestern Turkey**
SAYDAM C., ARSLAN Ü., ERSOY F., ELİBÜYÜK İ. Ö.
3 rd International Symposium on Plum pox virus, Antalya, Turkey, 9 - 13 May 2016

- XI. **Distribution of sharka disease (Plum Pox) in Bursa, Northwestern Turkey**
SAYDAM C., ARSLAN Ü., ERSOY F., ELİBÜYÜK İ. Ö.
3rd International symposium on plum pox virus, Ankara, Turkey, 9 - 13 May 2016
- XII. **Distribution of Sharka Disease (Plum pox virus) in Bursa, Northwest Turkey**
SAYDAM C., ARSLAN Ü., ERSOY F., ELİBÜYÜK İ. Ö.
3rd International Symposium on Plum pox Virus, Antalya, Turkey, 9 - 13 May 2016, pp.40
- XIII. **Expression of indoleamine 2 3 dioxygenase only during inflammation state Initial study to develop novel strategy for the treatment of rheumatoid arthritis**
KARAÇAY M., BARAZI A. Ö., PASHAZADEH M., GÜVENÇ F., ERSOY F., ORAL H. B.
4th European Congress of Immunology, Viyana, Austria, 6 - 09 September 2015
- XIV. **Functional analysis of barley HvSRP72 and HvGCN2 responding to powdery mildew infection**
ozturk k, ERSOY F., berta bedassa s., AKKAYA M.
13th International Cereal Rusts Powdery Mildew Conference, pekin, China, 28 August - 01 September 2012
- XV. **HvRad23 is a negative regulator of powdery mildew disease resistance in barley**
aksoy y., GÜNEL A., ERSOY F., ozturk k., AKKAYA M.
13th International Cereal Rusts Powdery Mildew Conference, Pekin, China, 28 August - 01 September 2012
- XVI. **Differential expression of genes possibly involved in incompatible interaction between barley and powdery mildew**
ERSOY F., Ridout C. J., Akkaya M. S.
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22
- XVII. **Two Hybrid based analysis of protein protein interactions of the wheat RAD6 protein**
ERSOY F., AKKAYA M.
12. International Cereal Rusts Powdery Mildew Conference, Antalya, Turkey, 13 - 16 October 2009
- XVIII. **Maya ikili hibrid analizi kullanılarak buğdayda R geni ile yönetilen sarı pas hastalığına karşı dirençlilik mekanizmasının aydınlatılması**
ERSOY F., AKKAYA M.
Ulusal Maya Moleküler Biyolojisi ve Biyoteknolojisi Sempozyumu, Bursa, Turkey, 30 - 31 May 2008
- XIX. **Yeast two hybrid analysis of wheat Rad6 gene and Yr10 gene domains**
ERSOY F., gürsoy ö., bozkurt o., AKKAYA M.
4. Plant Genomics European Meetings, Amsterdam, Netherlands, 20 - 23 September 2005
- XX. **Buğdayda Sarıpas Hastalığına Karşı Dirençlilik Mekanizmalarında Rol Alan Genlerin ve Gen Ürünlerinin işlevsel Genomik Yaklaşımlarla Saptanması**
bozkurt o., ÜNVER T., ERSOY F., AKKAYA M.
14. Biyoteknoloji Kongresi, Eskişehir, Turkey, 31 August - 02 September 2005
- XXI. **Bitkilerde biyotik ve abiyotik Faktorler sonucu uyarılan genlerin saptanması**
AKKAYA M., bozkurt o., ÜNVER T., ERSOY F., VURAL KORKUT Ş., avcıoğlu b., al asbahi a.
14. Biyoteknoloji Kongresi, Çanakkale, Turkey, 31 August - 31 May 2005
- XXII. **Determination of differentially expressed wheat genes upon infection with avirulent races of Puccinia striiformis**
AKKAYA M., bozkurt o., ÜNVER T., ERSOY F.
3. Plant Genomics European Meetings, Lyon, France, 22 - 25 September 2004
- XXIII. **Isolation of RGAs and disease related gene fragments from wheat stripe rust resistant differential lines**
AKKAYA M., xiamming c., bozkurt o., ERSOY F., ÜNVER T., SOMEL M.
11. International Cereal Rusts and Powdery Mildews Conference, Norwich, United Kingdom, 22 - 27 August 2004
- XXIV. **Bitkilerde hastalık Dirençlilik ve çinko alımı mekanizmalarında rol alan genlerin bulunmasına yönelik stratejiler**
AKKAYA M., ERSOY F., bozkurt o., aktaş y., SOMEL M., ÜNVER T., al asbahi a.
13. Biyoteknoloji Kongresi, Çanakkale, Turkey, 25 - 28 August 2003
- XXV. **Çoğaltılmış fragman uzunluk polimorfizmi ÇFUP moleküler markörleri kullanılarak Türkiye yabancı buğdaylarında genetik ilişki saptanması**

ERSOY F., AKKAYA M.

12. Biyoteknoloji Kongresi, Balıkesir, Turkey, 17 - 21 September 2001

XXVI. **Moleküler markörlerin Türkiye buğdaylarında genetik ilişki çalışmalarında kullanılması Mikrosatelit Markörü Geliştirilmesinin yeni bir yöntemi ve hastalığa dayanıklılık genlerinin araştırılması**

AKKAYA M., HAKKI E. E., bilgiç h., BÜYÜKÜNAL E. B., ERSOY F., UZ E., bozkurt o., barbaros y.

12. Biyoteknoloji Kongresi, Balıkesir, Turkey, 17 - 21 September 2001

XXVII. **A novel isolation method OF SSRs NO CLONING NO SCREENING**

AKKAYA M., HAKKI E. E., ERSOY F., UZ E.

International Plant Animal Genome IX Conference, San Diego, United States Of America, 13 - 17 January 2001

Metrics

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