

# Prof. EMİNE SÜMER ARAS

## Personal Information

**Email:** aras@science.ankara.edu.tr

**Web:** <https://avesis.ankara.edu.tr/aras>

## International Researcher IDs

ScholarID: C-w5jTQAAAAJ

ORCID: 0000-0002-6597-1508

Publons / Web Of Science ResearcherID: ABA-1438-2021

ScopusID: 57364879200

Yoksis Researcher ID: 8663

## Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), Turkey 1994 - 1998

Postgraduate, Cleveland State University, Biology- Master Degree, United States Of America 1992 - 1994

Undergraduate, Middle East Technical University, Fen-Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, Turkey 1983 - 1988

## Dissertations

Doctorate, Poli ADP-Ribuz polimeraz psödogeninin Türk toplumunda normal bireylerde ve değişik kanser tiplerinde moleküler analizi, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), 1998

Postgraduate, a, Cleveland State University, Biology- Master Degree, 1994

## Research Areas

Bioinformatics, Biotechnology, Molecular Biology and Genetics

## Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 2011 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 2006 - 2011

## Academic and Administrative Experience

Ankara University, 2021 - Continues

Ankara University, 2017 - Continues

Ankara University, 2017 - 2020

Ankara University, 2010 - 2013

## Courses

Ökaryot Genetiği, Undergraduate, 2023 - 2024, 2022 - 2023  
Kök Hücreleri, Undergraduate, 2023 - 2024, 2022 - 2023  
Moleküler Biyoloji II, Undergraduate, 2023 - 2024, 2021 - 2022  
GENETICS OF EUKARYOTIC, Undergraduate, 2023 - 2024, 2022 - 2023  
MOLEKÜLER BİYOLOJİDE SON GELİŞMELER, Doctorate, 2023 - 2024, 2022 - 2023  
STEM CELLS , Undergraduate, 2022 - 2023, 2021 - 2022  
MOLECULAR BIOLOGY I, Undergraduate, 2023 - 2024, 2022 - 2023  
POLİMERAZ ZİNCİR REAKSİYONU (PCR) VE UYGULAMA ALANLARI, Doctorate, 2023 - 2024, 2022 - 2023  
SPECIAL PROJECT I, Undergraduate, 2023 - 2024  
Arazi Uygulamaları, Undergraduate, 2022 - 2023, 2021 - 2022  
LABORATORY OF GENERAL BIOLOGY I, Undergraduate, 2022 - 2023, 2021 - 2022  
General Biology, Undergraduate, 2022 - 2023, 2021 - 2022  
MOLEKÜLER BİYOLOJİSİ I, Undergraduate, 2022 - 2023, 2021 - 2022

## Advising Theses

ARAS E. S., Investigation of the apoptotic effect of vulpinic acid on the melanoma cancer cell, Postgraduate, S.YANGIN(Student), 2021  
ARAS E. S., Genome-wide identification of drought responsive hsp70 in common bean, Postgraduate, M.TANRISEVEN(Student), 2020  
ARAS E. S., The effect of different heavy metals on the Eisenia andrei (soil worm) on the gene expression level, Postgraduate, A.AŞKIN(Student), 2020  
YILMAZ E., ARAS E. S., The role of glutamine transport and metabolism in the insulin resistance and endoplasmic reticulum stress, Doctorate, G.AYDOĞDU(Student), 2019  
ARAS E. S., Wistar albino tip rat karaciğerinde sisplatin ve camp'nin toksik ve antitoksik etkilerin gen ifadesi düzeyinde karşılaştırılması, Postgraduate, K.DEON(Student), 2019  
ARAS E. S., Genome-wide identification and characterization of whirly and Arr-B genes in common bean (Phaseolus vulgaris L.) and assessment of their possible role in biotic stress response at gene expression level, Doctorate, F.ŞEYMA(Student), 2019  
ARAS E. S., Analysis of mrna expression levels of TCP gene family transcription factors using real-time PCR method in chromium (VI) stressed common bean (Phaseolus vulgaris L.), Postgraduate, S.KESKİN(Student), 2019  
ARAS E. S., Investigation of CAMTA and YABBY genes at gene expression level under heavy metal stress in common bean, Doctorate, E.KÖSEOĞLU(Student), 2019  
ALTINDAĞ A., ARAS E. S., Çeşitli vücut sıvılarına maruz kalmış çim bitkisinde  $\beta$ -actin gen ifadesindeki farklılıkların değerlendirilmesi, Postgraduate, G.ONGUN(Student), 2019  
ARAS E. S., Investigation of the Yabby and Dof transcription factors at gene expression level during drought stress conditions in Phaseolus vulgaris L. and the effect of salicylic acid, Postgraduate, A.GİZEM(Student), 2019  
ARAS E. S., Kana maruz kalmış toprakta 16S rRNA analizlerine göre aktinomiset çeşitliliğinin belirlenmesi, Postgraduate, H.FARAH(Student), 2019  
ARAS E. S., Biosynthesis of silver nanoparticles from Phaseolus vulgaris L. and investigation of their antifungal activities, Postgraduate, E.EDİZ(Student), 2018  
ARAS E. S., Soğuk stresi altında geliştirilmiş ayçiçeği (Helianthus annuus L.) bitkisinde bbZIP, MYB, NAC, NF-YB ve WRKY tipi transkripsiyon faktör genlerinin mRNA ifade seviyelerinin belirlenmesi, Doctorate, Ç.DÖNMEZ(Student), 2018  
ARAS E. S., Svaziland Sidvokodvo'da domuz (Sus scrofa) leşlerinde dekompozisyon süreci ve nekrofaj böceklerinin (Diptera ve Coleoptera) incelenmesi, Postgraduate, A.TEMAKHOLO(Student), 2018  
ARAS E. S., Determination of fad2 gene mRNA expression levels in safflower (carthamus tinctorius l.) variants exposed to copper (cu+ ), lead (pb+2) and cadmium (cd+2) heavy metal stress, Doctorate, E.BÖLÜKBAŞI(Student), 2018  
ARAS E. S., Quantification of denitrifier population size in soil, bacteria community structures and comparison of nosz and 16s rRNA genes from culturable denitrifying, Doctorate, C.AVŞAR(Student), 2018  
ARAS E. S., Ayçiçeği (Helianthus annuus L.) bitkisinde büyüme düzenleyici faktör (GRF) transkripsiyon faktörü gen

ailesinin genom boyutunda in silico tanımlanması ve karakterizasyonu, Postgraduate, T.BENGÜ(Student), 2018

ARAS E. S., Apoptosis marker'ı olan annexinA5'e karşı poliklonal antikor gelişimi, Postgraduate, A.ALPEREN(Student), 2017

ARAS E. S., Genome-wide in silico identification and characterization of the small heat shock protein (sHSP) family in common bean (*Phaseolus vulgaris* L.), Postgraduate, B.PERVİN(Student), 2017

ARAS E. S., Determination of mRNA expression levels of cell cycle genes retinoblastoma (Rb), Myelocytomatosis (Myc) and E2F in sunflower (*Helianthus annuus* L.) Plant grown under Cr, salinity and drought stresses, Doctorate, E.BAŞARAN(Student), 2016

ARAS E. S., Obezite ve insülin direncinde, insülin sinyal yolağında fosforilasyon/o-GlcNAc modifikasyonlarına endoplazmik retikulum stresi etkisinin incelenmesi, Postgraduate, B.PELİN(Student), 2016

CANSARAN DUMAN D., ARAS E. S., Determination of cytotoxic effect of vulpinic acid in breast cancer cell lines and mRNA expression levels of apoptotic related genes, Postgraduate, N.KILIÇ(Student), 2016

ARAS E. S., Domates bitkisinde tuz stresine karşı karotenoid kodlayan PSY-fiton sentaz (PSY-Phytoene Synthase) ve PDS-fiton desaturaz (PDS-Phytoene desaturase) genlerinin ifadesi düzeylerinin belirlenmesi, Postgraduate, A.DUALE(Student), 2015

ARAS E. S., Tuz ve kuraklık stresi altında geliştirilmiş farklı aspir (*Carthamus tinctorious*) FAD2 geni mRNA ifade seviyelerinin qRT-PCR yöntemiyle belirlenmesi, Postgraduate, M.HASANBAGLOU(Student), 2015

ARAS E. S., Tuz ve kuraklık stresi altında geliştirilmiş domates (*Solanum lycopersicum* L.) bitkisinde katalaz geni mRNA ifade seviyesinin real time PCR ile belirlenmesi, Doctorate, E.GÜNDÜZER(Student), 2015

ARAS E. S., Pb+2 ağır metal stresi altındaki *Pseudevernia furfuracea* liken türünde lakkaz enzimini kodlayan genin anlatım seviyelerinin belirlenmesi, Postgraduate, B.DEMİRALP(Student), 2015

ARAS E. S., Patlıcan (*Solanum melongena* L.) bitkisi tohumlarının çimlenmesinde çinko (Zn) stresi ile meydana gelen DNA değişikliklerinin belirlenmesi, Postgraduate, S.GHABELNEZAM(Student), 2015

ARAS E. S., Tuz ve kuraklık stresi altında geliştirilmiş farklı fasulye (*Phaseolus vulgaris* L.) çeşitlerinde lea-3 geni mRNA ifade seviyelerinin kantitatif real-time pcr yöntemiyle incelenmesi, Doctorate, İ.BÜYÜK(Student), 2014

YILMAZ E., ARAS E. S., Hiperhomosisteineminin, endotelial protein C reseptörü (EPCR) üzerine etkisi, Postgraduate, G.AYDOĞDU(Student), 2013

ARAS E. S., Ayçiçeği (*Helianthus annuus* L.) bitkisi tohumlarının çimlenmesinde çinko (Zn+2) stresi ile protein içeriği, dna ve dna metilasyon modelindeki meydana gelen olası değişimlerin moleküler markörler ile değerlendirilmesi, Postgraduate, E.BÖLÜKBAŞI(Student), 2013

CANSARAN DUMAN D., ARAS E. S., Hypogymnia physodes liken türünde UV radyasyonları ve Pb+2, Cr+6 katyonlarının uygulanması sonucunda DNA ve DNA metilasyon modelindeki olası değişimlerin moleküler markörler ile değerlendirilmesi, Postgraduate, R.HAMUTOĞLU(Student), 2013

ARAS E. S., Bazı erik ve kiraz genotiplerinin SSRs (Simple Sequence Repeats)'a dayalı genetik karakterizasyonu, Postgraduate, Ö.KÖSE(Student), 2013

ARAS E. S., Soğuk, kuraklık ve tuz gibi abiyotik stres koşulları altındaki domates bitkisinde (*Lycopersicon esculentum* L.) süperoksid dismutaz (SOD) gen ekspresyon profilinin real time PCR aracılığı ile araştırılması, Doctorate, S.SOYDAM(Student), 2011

ARAS E. S., Türkiye'de bulunan Hypogymnia (nvl.) nvl. türlerinde rDNA ITS bölgesi dizi analizi ile çeşitliliğin tanımlanması, Postgraduate, A.KABAOĞLU(Student), 2007

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Omics approaches to understand the <i>MADS-box</i> gene family in common bean (<i>Phaseolus vulgaris</i> L.) against drought stress**  
Okay A., Kirlioglu T., Durdu Y. S., Akdeniz S., BÜYÜK İ., ARAS E. S.  
PROTOPLASMA, vol.261, no.4, pp.709-724, 2024 (SCI-Expanded)
- II. **Study on Cloning and Expression of TNF- $\alpha$  Variants in <i>E. coli</i>: Production, Purification, and Interaction with Anti-TNF- $\alpha$  Inhibitors**  
Akcağad G., CANSARAN DUMAN D., ARAS E. S., Ataoglu H.

PROTEIN AND PEPTIDE LETTERS, no.5, pp.395-408, 2024 (SCI-Expanded)

- III. **Omics data-based identification of HSP70 gene family in *C. sativa* under drought stress**  
BÜYÜK İ., Okay A., İlhan E., Aytaç S., Şafak S., ARAS E. S.  
South African Journal of Botany, vol.167, pp.94-107, 2024 (SCI-Expanded)
- IV. **Overcoming obstacles: Analysis of blood and semen stains washed with different chemicals with ATR-FTIR**  
YILDIRIM M. Ş., AKÇAN R., ARAS S., TAMER U., EVRAN E., TAŞTEKİN B., AYDOĞAN C., BOYACI İ. H.  
Forensic Science International, vol.344, 2023 (SCI-Expanded)
- V. **The molecular mechanisms of vulpinic acid induced programmed cell death in melanoma**  
Yangin S., Cansaran-Duman D., Eskiler G. G., Aras S.  
MOLECULAR BIOLOGY REPORTS, vol.49, no.9, pp.8273-8280, 2022 (SCI-Expanded)
- VI. **The genome-wide characterization of WOX gene family in *Phaseolus vulgaris* L. during salt stress**  
Akbulut S. E., Okay A., Aksoy T., ARAS E. S., BÜYÜK İ.  
PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS, vol.28, no.6, pp.1297-1309, 2022 (SCI-Expanded)
- VII. **Identification and Characterization of SRS Genes in *Phaseolus vulgaris* Genome and Their Responses Under Salt Stress**  
BÜYÜK İ., Okay A., Aras S.  
BIOCHEMICAL GENETICS, vol.60, no.2, pp.482-503, 2022 (SCI-Expanded)
- VIII. **Detection of multidrug-resistant *Pseudomonas* isolates and distribution of denitrifying functional genes**  
Onal N., AVŞAR C., Aras E. S.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL HEALTH RESEARCH, vol.31, no.8, pp.1015-1031, 2021 (SCI-Expanded)
- IX. **Identification and characterization of the Pvul-GASA gene family in the *Phaseolus vulgaris* and expression patterns under salt stress**  
BÜYÜK İ., Okay A., Gorska M., İlhan E., ARAS E. S.  
TURKISH JOURNAL OF BOTANY, vol.45, no.1, pp.655-690, 2021 (SCI-Expanded)
- X. **Quantification of denitrifier genes population size and its relationship with environmental factors**  
AVŞAR C., ARAS E. S.  
ARCHIVES OF MICROBIOLOGY, vol.202, no.5, pp.1181-1192, 2020 (SCI-Expanded)
- XI. **Community structures and comparison of nosZ and 16S rRNA genes from culturable denitrifying bacteria**  
AVŞAR C., ARAS E. S.  
FOLIA MICROBIOLOGICA, vol.65, no.3, pp.497-510, 2020 (SCI-Expanded)
- XII. **THE PHYSIOLOGICAL AND DNA DAMAGE RESPONSE OF IN THE LICHEN HYPOGYMNA PHYSODES TO UV AND HEAVY METAL STRESS**  
Hamutoolu R., Derici M. K., Aras E. S., Aslan A., CANSARAN DUMAN D.  
APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH, vol.18, no.2, pp.2315-2338, 2020 (SCI-Expanded)
- XIII. **Genome-wide identification of CAMTA gene family members in *Phaseolus vulgaris* L. and their expression profiling during salt stress**  
BÜYÜK İ., İLHAN E., Sener D., Ozsoy A. U., Aras S.  
MOLECULAR BIOLOGY REPORTS, vol.46, no.3, pp.2721-2732, 2019 (SCI-Expanded)
- XIV. **Evaluation of in vitro Anticancer Activity of Vulpinic Acid and its Apoptotic Potential Using Gene Expression and Protein Analysis**  
Kilic N., DERİCİ M. K., BÜYÜK İ., Aydin S. S., Aras S., CANSARAN DUMAN D.  
INDIAN JOURNAL OF PHARMACEUTICAL EDUCATION AND RESEARCH, vol.52, no.4, pp.626-634, 2018 (SCI-Expanded)
- XV. **Determination of Vulpinic Acid Effect on Apoptosis and mRNA Expression Levels in Breast Cancer Cell Lines**  
Kilic N., Aras S., CANSARAN DUMAN D.  
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.18, no.14, pp.2032-2041, 2018 (SCI-Expanded)

- XVI. **Genome-wide analysis of Phaseolus vulgaris C2C2-YABBY transcription factors under salt stress conditions**  
İNAL B., BÜYÜK İ., İLHAN E., Aras S.  
3 BIOTECH, vol.7, 2017 (SCI-Expanded)
- XVII. **Genome-wide in silico identification, characterization and transcriptional analysis of the family of growth-regulating factors in common bean (Phaseolus vulgaris L.) subjected to polyethylene glycol-induced drought stress**  
Bueyuek İ., Aras S.  
ARCHIVES OF BIOLOGICAL SCIENCES, vol.69, no.1, pp.5-14, 2017 (SCI-Expanded)
- XVIII. **Phenotypic and genotypic characterization of foodborne bacteria isolated from Sinop Province, Turkey**  
AVŞAR C., Civek S., ARAS E. S.  
FOOD BIOTECHNOLOGY, vol.31, no.3, pp.141-161, 2017 (SCI-Expanded)
- XIX. **Genome-wide identification of salinity responsive HSP70s in common bean**  
BÜYÜK İ., İNAL B., İLHAN E., Tanriseven M., Aras S., ERAYMAN M.  
MOLECULAR BIOLOGY REPORTS, vol.43, no.11, pp.1251-1266, 2016 (SCI-Expanded)
- XX. **EXPRESSION OF CTFAD2 GENE FOR EARLY SELECTION IN SAFFLOWER OLEIC/LINOLEIC OIL CONTENT**  
BÜYÜK İ., Bolukbasi E., Aras S.  
JOURNAL OF ANIMAL AND PLANT SCIENCES, vol.26, no.5, pp.1383-1388, 2016 (SCI-Expanded)
- XXI. **Effects of Lead (Pb) and Cadmium (Cd) Elements on Lipid Peroxidation, Catalase Enzyme Activity and Catalase Gene Expression Profile in Tomato Plants**  
Soydam Aydin S., BÜYÜK İ., Gokce Gunduzer E., Buyuk B. P., KANDEMİR İ., CANSARAN DUMAN D., Aras S.  
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BİLİMLERİ DERGİSİ, vol.22, no.4, pp.539-547, 2016 (SCI-Expanded)
- XXII. **Varied Expression Pattern of the Small Heat Shock Protein Gene Encoding HSP17.7 against UVA, UVB, Cu<sup>2+</sup> and Zn<sup>2+</sup> Stresses in Sunflower**  
BÜYÜK İ., Aras S., Cansaran-Dlیمان D.  
PLANT PROTECTION SCIENCE, vol.52, no.2, pp.99-106, 2016 (SCI-Expanded)
- XXIII. ***In vitro* enzyme inhibitory effects of Rubus sanctus Schreber and its active metabolite as a function of wound healing activity**  
AKKOL E., SÜNTAR İ., İlhan M., Aras E. S.  
JOURNAL OF HERBAL MEDICINE, no.4, pp.207-210, 2015 (SCI-Expanded)
- XXIV. **Roles of catalase (CAT) and ascorbate peroxidase (APX) genes in stress response of eggplant (Solanum melongena L.) against Cu<sup>2+</sup> and Zn<sup>2+</sup> heavy metal stresses**  
Soydam-Aydin S., Büyük İ., Cansaran Duman D., Aras S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.187, no.12, 2015 (SCI-Expanded)
- XXV. **The determination of physiological and DNA changes in seedlings of maize (Zea mays L.) seeds exposed to the waters of the Gediz River and copper heavy metal stress**  
BATIR M. B., CANDAN F., BÜYÜK İ., Aras S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.187, no.4, 2015 (SCI-Expanded)
- XXVI. **Screening of PvLEA3 gene mRNA expression levels with qRT-PCR in different bean varieties (Phaseolus vulgaris L.) subjected to salt and drought stress**  
BÜYÜK İ., Aras S.  
TURKISH JOURNAL OF BOTANY, vol.39, no.6, pp.1014-1020, 2015 (SCI-Expanded)
- XXVII. **Application of molecular markers to detect DNA damage caused by environmental pollutants in lichen species**  
CANSARAN DUMAN D., Altunkaynak E., Aslan A., BÜYÜK İ., Aras S.  
GENETICS AND MOLECULAR RESEARCH, vol.14, no.2, pp.4637-4650, 2015 (SCI-Expanded)
- XXVIII. **Expression analysis of APX and CAT genes in eggplants subjected to Cu<sup>2+</sup> and Zn<sup>2+</sup> heavy metals**  
BÜYÜK İ., Aydin S. S., Duman D. C., Aras S.

- NEW BIOTECHNOLOGY, 2014 (SCI-Expanded)
- XXIX. **The Effect of Oral Administration of *Pediococcus pentosaceus* OZF**  
Onlu H., Sakyp Z., KIRAN F., Onlu H., BÜYÜK İ., Aras S., OSMANAĞAOĞLU Ö.  
NEW BIOTECHNOLOGY, 2014 (SCI-Expanded)
- XXX. **Biosorption properties of zinc(II) from aqueous solutions by *Pseudevernia furfuracea* (L.) zopf**  
Kilic Z., Atako O., Aras S., CANSARAN DUMAN D., EMREGÜL E.  
Journal of the Air and Waste Management Association, vol.64, no.10, pp.1112-1121, 2014 (SCI-Expanded)
- XXXI. **Heavy metal accumulation and genotoxicity indicator capacity of the lichen species *Ramalina pollinaria* collected from around an iron steel factory in Karabuk, Turkey**  
CANSARAN DUMAN D., Altunkaynak E., ARAS E. S.  
TURKISH JOURNAL OF BOTANY, vol.38, no.3, pp.477-490, 2014 (SCI-Expanded)
- XXXII. **Evaluation of different isotherm models, kinetic, thermodynamic, and copper biosorption efficiency of *Lobaria pulmonaria* (L.) Hoffm.**  
Kilic Z., ATAKOL O., Aras S., CANSARAN DUMAN D., Celikkol P., EMREGÜL E.  
JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION, vol.64, no.1, pp.115-123, 2014 (SCI-Expanded)
- XXXIII. **Air-quality biomonitoring: Assessment of genotoxicity of air pollution in the Province of Kayseri (Central Anatolia) by use of the lichen *Pseudevernia furfuracea* (L.) Zopf and amplified fragment-length polymorphism markers**  
Vardar C., Basaran E., CANSARAN DUMAN D., Aras S.  
MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, vol.759, pp.43-50, 2014 (SCI-Expanded)
- XXXIV. **Expression of SOD gene and evaluating its role in stress tolerance in NaCl and PEG stressed *Lycopersicum esculentum***  
Aydin S., BÜYÜK İ., ARAS E. S.  
TURKISH JOURNAL OF BOTANY, vol.38, no.1, pp.89-98, 2014 (SCI-Expanded)
- XXXV. **Genotoxic effect of cadmium in okra seedlings: Comparative investigation with population parameters and molecular markers**  
Aydin S. S., Basaran E., CANSARAN DUMAN D., Aras S.  
JOURNAL OF ENVIRONMENTAL BIOLOGY, vol.34, no.6, pp.985-990, 2013 (SCI-Expanded)
- XXXVI. **Detection of superoxide radicals in tomato plants exposed to salinity, drought, cold and heavy metal stress using CMC-G-SOD biosensor**  
Kocabay O., EMREGÜL E., Aydin S. S., Aras S.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.41, no.5, pp.352-358, 2013 (SCI-Expanded)
- XXXVII. **Relationships among lipid peroxidation, SOD enzyme activity, and SOD gene expression profile in *Lycopersicum esculentum* L. exposed to cold stress**  
Aydin S. S., BÜYÜK İ., Aras S.  
GENETICS AND MOLECULAR RESEARCH, vol.12, no.3, pp.3220-3229, 2013 (SCI-Expanded)
- XXXVIII. **Identification of DNA changes, in tomato (*Solanum lycopersicum* L.) seedlings, induced by copper (Cu<sup>2+</sup>) stress**  
Aktokat N., Altunkaynak E., ARAS E. S.  
NEW BIOTECHNOLOGY, 2012 (SCI-Expanded)
- XXXIX. **Carboxymethylcellulose-gelatin-superoxidase dismutase electrode for amperometric superoxide radical sensing**  
Kocabay O., EMREGÜL E., Aras S., EMREGÜL K. C.  
BIOPROCESS AND BIOSYSTEMS ENGINEERING, vol.35, no.6, pp.923-930, 2012 (SCI-Expanded)
- XL. **Characterization of stress induced by copper and zinc on cucumber (*Cucumis sativus* L.) seedlings by means of molecular and population parameters**  
Aydin S. S., Gokce E., BÜYÜK İ., Aras S.  
MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, vol.746, no.1, pp.49-55, 2012 (SCI-Expanded)
- XLI. **Accumulation of Trace Elements and the Assessment of the Genotoxicity in the Lichen *Pseudevernia***

**furfuracea Transplanted to a Polluted Site in Ankara**

CANSARAN DUMAN D., Aras S., ATAKOL O., Atasoy I.

EKOLOJİ, vol.21, no.85, pp.1-14, 2012 (SCI-Expanded)

- XLII. **Evaluation of genotoxicity of *Pseudevernia furfuracea* (L.) Zopf by RAPD analysis**  
Cansaran Duman D., Aras E. S., Beyaztaş T., Gökçe Gündüzer E.  
Genetics And Molecular Research, vol.10, pp.3760-3770, 2011 (SCI-Expanded)
- XLIII. **Evaluation of copper-induced stress on eggplant (*Solanum melongena* L.) seedlings at the molecular and population levels by use of various biomarkers**  
Körpe D. A., Aras S.  
Mutation Research - Genetic Toxicology and Environmental Mutagenesis, vol.719, no.1-2, pp.29-34, 2011 (SCI-Expanded)
- XLIV. **Evaluation of copper-induced stress on eggplant (*Solanum melongena* L.) seedlings at the molecular and population levels by use of various biomarkers**  
Aksoy Körpe D., Aras E. S.  
MUTATION RESEARCH - GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, vol.719, no.1-2, pp.29-34, 2011 (SCI-Expanded)
- XLV. **Evaluation of genotoxicity of *Pseudevernia furfuracea* (L.) Zopf by RAPD analysis**  
Aras S., Beyaztaş T., Cansaran-Duman D., Gokce-Gunduzer E.  
GENETICS AND MOLECULAR RESEARCH, vol.10, no.4, pp.3760-3770, 2011 (SCI-Expanded)
- XLVI. **Assessment of air pollution genotoxicity by RAPD in *Evernia prunastri* L. Ach. from around iron-steel factory in Karabuk, Turkey**  
Cansaran-Duman D., ATAKOL O., Aras S.  
JOURNAL OF ENVIRONMENTAL SCIENCES, vol.23, no.7, pp.1171-1178, 2011 (SCI-Expanded)
- XLVII. **Effect of Mobile Seed Components on Dosimetry of Theragenic Model 200 Pd-103 Seed Source**  
Yegin G., Duman S., Aydogdu G., Camgoz B., Aras S., Kumru M.  
MEDICAL PHYSICS, no.6, pp.3201-3202, 2010 (SCI-Expanded)
- XLVIII. **Amplified fragment length polymorphism analysis of grapevine rootstock genotypes in Turkey**  
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