

## Personal Information

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## Education Information

Doctorate, Atatürk Üniversitesi, Fen Fakültesi, Biyoloji/Moleküler Biyoloji, Turkey 2012 - 2018

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Kuraklık Stresi ve Humik Asitin Ekmeklik Buğdayda (*Triticum aestivum* L.) Bazı Genlerin mRNA İfade Seviyeleri ve DNA Konformasyon Değişimlerine Etkisi, Atatürk Üniversitesi, Fen Fakültesi, Biyoloji, 2018

Post Graduate, KURAKLIK STRESİNE MARUZ KALAN BUĞDAYDA (*Triticum aestivum*) GENETİK VE EPİGENETİK DEĞİŞİKLİKLER ÜZERİNE PUTRESİNİN ETKİSİNİN MOLEKÜLER YÖNTEMLER İLE BELİRLENMESİ, Atatürk Üniversitesi, Fen Fakültesi, Biyoloji/Moleküler Biyoloji, 2012

## Research Areas

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

## Academic Titles / Tasks

Research Assistant PhD, Atatürk Üniversitesi, Fen Fakültesi, Biyoloji, 2011 - Continues

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

- **Aluminum-Induced Changes on DNA Damage, DNA Methylation and LTR Retrotransposon Polymorphism in Maize**  
TAŞPINAR M. S. , AYDIN M., SIGMAZ B., YAGCI S., ARSLAN E., AĞAR G.  
Arabian Journal for Science and Engineering, vol.43, pp.123-131, 2018 (Journal Indexed in SCI Expanded)
- **5-Aminolevulinic acid improves DNA damage and DNA Methylation changes in deltamethrin-exposed Phaseolus vulgaris seedlings**  
TAŞPINAR M. S. , AYDIN M., ARSLAN E., YAPRAK M., AĞAR G.  
Plant Physiology and Biochemistry, vol.118, pp.267-273, 2017 (Journal Indexed in SCI Expanded)
- **Analyses of somaclonal variation in endosperm-supported mature embryo culture of rye (*Secale cereale* L.)**  
AYDIN M., ARSLAN E., TAŞPINAR M. S. , KARADAYI G., AĞAR G.  
Biotechnology and Biotechnological Equipment, vol.30, pp.1082-1089, 2016 (Journal Indexed in SCI Expanded)
- **Effects of As<sub>2</sub>O<sub>3</sub> on DNA methylation, genomic instability, and LTR retrotransposon polymorphism in Zea mays**  
ERTURK F. A. , AYDIN M., SIGMAZ B., TAŞPINAR M. S. , ARSLAN E., AĞAR G., YAGCI S.

- Environmental Science and Pollution Research, vol.22, pp.18601-18606, 2015 (Journal Indexed in SCI Expanded)
- **Cytogenetic and epigenetic alterations by cobalt and nickel on Zea mays L**  
ERTURK F. A. , AĞAR G., Nardemir G., ARSLAN E.  
Toxicological and Environmental Chemistry, vol.97, pp.1350-1362, 2015 (Journal Indexed in SCI Expanded)
  - **The role of putrescine against the long terminal repeat (LTR) retrotransposon polymorphisms induced by salinity stress in Triticum aestivum**  
SIGMAZ B., AĞAR G., ARSLAN E., AYDIN M., TAŞPINAR M. S.  
Acta Physiologiae Plantarum, vol.37, 2015 (Journal Indexed in SCI Expanded)
  - **Analysis of genetic and epigenetic effects of maize seeds in response to heavy metal (Zn) stress**  
Erturk F. A. , AĞAR G., ARSLAN E., Nardemir G.  
Environmental Science and Pollution Research, vol.22, pp.10291-10297, 2015 (Journal Indexed in SCI Expanded)
  - **Determination of genetic and epigenetic effects of glyphosate on Triticum aestivum with RAPD and CRED-RA techniques**  
Nardemir G., AĞAR G., ARSLAN E., ERTURK F. A.  
Theoretical and Experimental Plant Physiology, vol.27, pp.131-139, 2015 (Journal Indexed in SCI Expanded)
  - **Determination of genotoxic effects of boron and zinc on Zea mays using protein and random amplification of polymorphic DNA analyses**  
ERTURK F. A. , NARDEMİR G., Hilal A. Y. , ARSLAN E., AĞAR G.  
Toxicology and Industrial Health, vol.31, pp.1015-1023, 2015 (Journal Indexed in SCI Expanded)
  - **Auxin effects on somaclonal variation and plant regeneration from mature embryo of barley (Hordeum vulgare L.)**  
AYDIN M., TAŞPINAR M. S. , ARSLAN E., SIGMAZ B., AĞAR G.  
Pakistan Journal of Botany, vol.47, pp.1749-1757, 2015 (Journal Indexed in SCI Expanded)
  - **Determination of genomic instability and DNA methylation effects of Cr on maize (Zea mays L.) using RAPD and CRED-RA analysis**  
Erturk F. A. , AĞAR G., ARSLAN E., Nardemir G., SAHİN Z.  
Acta Physiologiae Plantarum, vol.36, pp.1529-1537, 2014 (Journal Indexed in SCI Expanded)
  - **Protective role of humic acids against dicamba-induced genotoxicity and DNA methylation in Phaseolus vulgaris L.**  
Yıldırım N., AĞAR G., TAŞPINAR M. S. , Turan M., AYDIN M., ARSLAN E.  
Acta Agriculturae Scandinavica Section B: Soil and Plant Science, vol.64, pp.141-148, 2014 (Journal Indexed in SCI Expanded)
  - **Effects of lead sulfate on genetic and epigenetic changes, and endogenous hormone levels in corn (Zea mays L.)**  
Erturk F. A. , AĞAR G., ARSLAN E., Nardemir G., AYDIN M., TAŞPINAR M. S.  
Polish Journal of Environmental Studies, vol.23, pp.1925-1932, 2014 (Journal Indexed in SCI Expanded)

## Articles Published in Other Journals

- **PUTRESCINE AS A PROTECTIVE MOLECULE ON DNADAMAGE AND DNA METHYLATION CHANGES IN WHEAT UNDER DROUGHT**  
ARSLAN E., AĞAR G., AYDIN M.  
Communications Faculty of Sciences University of Ankara Series C Biology, vol.29, pp.170-197, 2019 (Refereed Journals of Other Institutions)
- **Alleviative role of B-estradiol against 2,4-dichlorophenoxyacetic acid genotoxicity on common bean genome Fasulye genomunda 2,4-diklorofenoksisetik asit genotoksisitesine karşı B-östradiolün hafifletici rolü**  
TAŞPINAR M. S. , SIGMAZ B., AYDIN M., ARSLAN E., AĞAR G.  
Yuzuncu Yil University Journal of Agricultural Sciences, vol.28, pp.1-9, 2018 (Refereed Journals of Other Institutions)
- **Protective Role of Putrescine against Picloram Induced Genomic Instability and DNA Methylation in Phaseolus vulgaris**  
TAŞPINAR M. S. , ARSLAN E., AYDIN M., SIGMAZ B., AĞAR G.  
Journal of the Institute of Science and Technology, vol.7, pp.271-279, 2017 (Refereed Journals of Other Institutions)

- **Determination of iron toxicity on DNA methylation in Zea mays**  
TAŞPINAR M. S. , SIGMAZ B., AYDIN M., ARSLAN E., AĞAR G.  
International Journal of Advances in Science Engineering and Technology, vol.3, pp.59-61, 2016 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- **Role of Putrescine on Genomic Instability Caused by Salinity Stress in Triticum Aestivum L.**  
ARSLAN E., AĞAR G., AYDIN M., TAŞPINAR M. S.  
4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCE BIOLO, Ağrı, Turkey, 19 - 22 June 2019, vol.1, pp.341-348
- **B-estrodol as a Protective Hormone in DNA Methylation Changes of Dicamba-Treated Phaseolus Vulgaris**  
ARSLAN E., AĞAR G., AYDIN M., TAŞPINAR M. S.  
4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCE BIOLOG, Ağrı, Turkey, 19 - 22 June 2019, vol.1, pp.349-354
- **Salinity and putrescine effects on DNA methylation changes in Triticum aestivum**  
TAŞPINAR M. S. , AYDIN M., ARSLAN E., SIGMAZ B., AĞAR G.  
European Biotechnology Congress, Dubrovnik, Croatia, 25 - 27 May 2017, vol.256
- **Aluminum Induced DNA Methylation Changes in Zea mays.**  
AYDIN M., TAŞPINAR M. S. , ARSLAN E., YAGCI S., AĞAR G.  
II. International Conference on Advances in Natural and Applied Sciences (ICANAS 2017), 18 - 21 April 2017
- **Dicamba Causes Genomic Instability in Phaseolus vulgaris Seedlings**  
AYDIN M., TAŞPINAR M. S. , ARSLAN E., YAGCI S., AĞAR G.  
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- **Study of Iron Genotoxicity Using RAPD in Phaseolus vulgaris**  
AYDIN M., TAŞPINAR M. S. , ARSLAN E., AĞAR G.  
International Agriculture Congress, Belgrade, Serbia And Montenegro, 14 - 18 November 2016
- **Role of Putrescine against Picloram Induced DNA Methylation in Phaseolus vulgaris**  
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- **Determination of Aluminum Genotoxicity in Zea mays**  
AYDIN M., TAŞPINAR M. S. , ARSLAN E., AĞAR G.  
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- **Phaseolus vulgaris te Paraquatın Sebep Olduğu DNA Metilasyonuna Karşı östrodiolün Koruyucu Rolü**  
ARSLAN E., YAĞCI S., SIGMAZ B., AĞAR G., AYDIN M., KARADAYI G.  
23. Ulusal Biyoloji Kongresi, Gaziantep, Turkey, 5 - 09 September 2016
- **Mısırdada Zea mays L Trifluralinin Sebep Olduğu DNA Hasarı ve Genomik Kararsızlığa Karşı Putresinin Koruyucu Rolü**  
ARSLAN E., YAĞCI S., SIGMAZ B., AĞAR G., TAŞPINAR M. S.  
23.Ulusal Biyoloji Kongresi, Gaziantep, Turkey, 5 - 09 September 2016
- **Determination of Iron Toxicity on DNA Methylation in Zea Mays**  
TAŞPINAR M. S. , SIGMAZ B., AYDIN M., ARSLAN E., AĞAR G.  
Proceedings of ISER 19th International Conference, LİZBON, Portugal, 31 January 2016, pp.55-57
- **Protective Role of Putrescine on Genomic Instability Caused by Salinity Stress in Triticum aestivum**  
AĞAR G., TAŞPINAR M. S. , AYDIN M., ARSLAN E., SIGMAZ B.  
8th International Conference on Chemical, Ecology and Environmental Sciences (ICCEES'2016), Dubai, United Arab Emirates, 12 - 13 January 2016, pp.39-42
- **Vicia faba da Fipronilin Neden Olduğu Genomik Kararsızlık Üzerine Humik Asitin Etkisinin RAPD PCR ile Belirlenmesi**  
ARSLAN E., TURAN M., TAŞPINAR M. S. , AĞAR G., DİZMAN M., GÜNEŞ A., GÜLLÜCE M., ŞAHİN F.,

KARAMAN M.

Türkiye Doğal Beslenme ve Yaşam Boyu Sağlık Zirvesi, Turkey, 20 - 23 May 2015

- **Determination of effect of manganese toxicity on LTR RTS polymorphism in Zea mays**  
TAŞPINAR M. S. , YIGIDER E., ARSLAN E., AĞAR G., AYDIN M.  
1st International Conference on Engineering and Natural Sciences, ÜSKÜP, Macedonia, 15 - 19 May 2015
- **Effect of picloram on DNA methylation in common bean Phaseolus vulgaris L**  
ARSLAN E., AYDIN M., TAŞPINAR M. S. , SIGMAZ B., YAGCI S., AĞAR G.  
1st International Conference on Engineering and Natural Sciences, ÜSKÜP, Macedonia, 15 - 19 May 2015
- **Determination of effect of manganese toxicity on LTR RTS polymorphism in zea mays**  
TAŞPINAR M. S. , YIGIDER E., ARSLAN E., AĞAR G., AYDIN M.  
1st International Conference on Engineering and Natural Sciences, 15 - 19 May 2015
- **Analyses of somaclonal variation in endosperm supported mature embryo culture of rye Secale cereale L**  
AYDIN M., ARSLAN E., TAŞPINAR M. S. , AĞAR G., NARDEMİR G.  
1st International Conference on Engineering and Natural Sciences, ÜSKÜP, Macedonia, 15 - 19 May 2015
- **Protective Role Of Humic Acids On Genomic Instability Caused Paraquat In Phaseolus Vulgaris L. Seedlings By Using Rapsds Analysis**  
GÜLLÜCE M., ARSLAN E., AĞAR G., ÖĞÜTÇÜ H., ŞAHİN F.  
International Global Issues In Multidisciplinary Academic Research Dubai- Uae, Dubai, United Arab Emirates, 5 - 06 January 2015, pp.1
- **Role of Humic Acids on DNA Hypomethylation Caused Fipronil Stress in Vicia faba Seedlings**  
TURAN M., ARSLAN E., AĞAR G., TAŞPINAR M. S. , GÜLLÜCE M., ÖĞÜTÇÜ H., ŞAHİN F.  
the 17th meeting of IHSS 2014, Atina, Greece, 1 - 05 September 2014, pp.1
- **Effects of Chromium Nitrate on Phytohormone Content and Mitotic Activity in Maize (Zea mays L.) Seedlings**  
ERTÜRK F. A. , AĞAR G., ARSLAN E., GÜLLÜCE M., TURAN M., ŞAHİN F.  
20th World Congress of Soil Science (WCSS), Seul, South Korea, 8 - 13 June 2014, pp.163
- **Protective Role of Humic Acids on DNA Methylation Caused Cadmium Stress in Vicia faba Seedlings**  
AĞAR G., ARSLAN E., GÜLLÜCE M., TURAN M., ŞAHİN F.  
20th World Congress of Soil Science (WCSS), Seul, South Korea, 8 - 13 June 2014, pp.220
- **Protective Role of Humic Acids on DNA Methylation Caused Cadmium Stress in Vicia faba Seedlings**  
AĞAR G., ARSLAN E., GÜLLÜCE M., TURAN M., ŞAHİN F.  
20th World Congress of Soil Science (WCSS), Seul, South Korea, 8 - 13 June 2014, pp.220
- **Effect of 2,4-D on DNA methylation in common bean (Phaseolus vulgaris L.).**  
AYDIN M., ARSLAN E., TAŞPINAR M. S. , SIGMAZ B., AĞAR G.  
2nd International Conference on Environmental Science and Technology, Antalya, Turkey, 14 - 17 May 2014
- **Zea mays L. Tohumlarında Trifluralinin Neden Olduğu DNA Mutasyonundaki Değişikliğin CRED-RA İle Belirlenmesi**  
AĞAR G., ARSLAN E., GÜLLÜCE M., TURAN M., ŞAHİN F.  
EKOLOJİ 2014, Gazimagusa, Cyprus (Kktc), 1 - 04 May 2014, pp.1
- **Phaseolus vulgaris L.' de Paraquatın Neden DNA Metilasyonundaki Değişikliğin CRED-RA İle Belirlenmesi**  
GÜLLÜCE M., ARSLAN E., AĞAR G., TURAN M., ŞAHİN F.  
EKOLOJİ 2014, Gazimagusa, Cyprus (Gkry), 01 May 2014 - 04 May 2007, pp.1
- **Humik Asitin Trifluralinin Neden Olduğu DNA Mutasyonlarına Karşı Koruyucu Rolünün RAPD-PCR Yöntemi İle Belirlenmesi**  
TURAN M., ARSLAN E., AĞAR G., GÜLLÜCE M., ŞAHİN F.  
EKOLOJİ 2014, Gazimagusa, Cyprus (Gkry), 1 - 04 May 2014, pp.1
- **Determination of Epigenetic Effects of Fipronil on Vicia faba by using CRED-RA analysis**  
GÜLLÜCE M., ERCİŞLİ S., AĞAR G., ARSLAN E., TURAN M., ŞAHİN F.  
International Conference on Agricultural, Ecological and Medical Sciences (AEMS-2014), Bali, Indonesia, 6 - 07 February 2014, pp.1
- **Protective role of Zinc on DNA methylation caused cadmium stress in Vicia faba seedlings**  
AĞAR G., ERCİŞLİ S., GÜLLÜCE M., ARSLAN E., TURAN M., ŞAHİN F.

International Conference on Agricultural, Ecological and Medical Sciences (AEMS-2014), Bali, Indonesia, 6 - 07 February 2014, pp.1

- **Molecular determination of genotoxic effects of manganese (Mn) on maize (Zea mays L.) by RAPD**  
ERTURK F. A. , Agar G., Arslan E., NARDEMİR G., Bozari S.  
Eurobiotech Agriculture Symposium, Kayseri, Turkey, 12 - 14 April 2012, vol.161, pp.31
- **Genotoxic effects of copper (Cu) pollution on Zea mays (L.) seedlings**  
ERTURK F. A. , Agar G., NARDEMİR G., Bozari S., Aksakal O., Arslan E.  
Eurobiotech Agriculture Symposium, Kayseri, Turkey, 12 - 14 April 2012, vol.161, pp.30
- **Genotoxic potential of catmint essential oil**  
Bozari S., Agar G., Aksakal O., AYGUN F., Arslan E., NARDEMİR G.  
Eurobiotech Agriculture Symposium, Kayseri, Turkey, 12 - 14 April 2012, vol.161, pp.41
- **Epigenetic effects of malathion on seeds of Triticumaestivum**  
NARDEMİR G., AĞAR G., YANMIS D., ERTURK F. A. , ARSLAN E., Bozari S.  
Eurobiotech Agriculture Symposium, Kayseri, Turkey, 12 - 14 April 2012, vol.161, pp.31

## Supported Projects

AYDIN M., AĞAR G., TAŞPINAR M. S. , ARSLAN E., Project Supported by Higher Education Institutions, Fasulyede (Phaseolus vulgaris) Deltamethrin ve 5-Aminolevulinik asit (ALA) Uygulamasının Bazı Antioksidan Genlerin Ekspresyonuna ve Retrotranspozon Polimorfizmine Etkisi, 2018 - 2019

## Citations

Total Citations (WOS):75

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