

## Prof. FİLİZ VARDAR

### Personal Information

**Email:** fvardar@marmara.edu.tr

**Other Email:** filiz.vardar@gmail.com

**Web:** <https://avesis.marmara.edu.tr/fvardar>

### International Researcher IDs

ScholarID: xt744GUAAAAJ&hl=tr

ORCID: 0000-0002-1051-5628

Publons / Web Of Science ResearcherID: AAH-2399-2019

ScopusID: 15063669500

Yoksis Researcher ID: 20152

### Education Information

Doctorate, Marmara University, Faculty of Arts and Sciences, Biology, Turkey 2002 - 2008

Postgraduate, Marmara University, Faculty of Arts and Sciences, Biology, Turkey 2000 - 2002

Undergraduate, Marmara University, Faculty of Arts and Sciences, Biology, Turkey 1996 - 2000

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Lathyrus undulatus boiss. anterlerinde gelişim ve programlı hücre ölümü üzerinde çalışmalar, Marmara Üniversitesi, Faculty of Arts and Sciences, Biology, 2008

Postgraduate, Aluminyumun Tütün (Nicotiana tabacum L.)'ün Doku Kültürleri Üzerinde Etkileri, Marmara Üniversitesi, Faculty of Arts and Sciences, Biology, 2002

### Research Areas

Plant Biology

### Academic Titles / Tasks

Professor, Marmara University, Faculty of Arts and Sciences, Biology, 2019 - Continues

Associate Professor, Marmara University, Faculty of Arts and Sciences, Biology, 2013 - 2019

Research Assistant, Marmara University, Faculty of Arts and Sciences, Biology, 2001 - 2013

### Academic and Administrative Experience

Marmara University, Faculty of Arts and Sciences, Biology, 2017 - Continues  
Marmara University, Faculty of Arts and Sciences, Biology, 2014 - Continues

## Courses

Hücre Biyolojisi, Undergraduate, 2019 - 2020  
Bitki Embriyolojisi, Undergraduate, 2019 - 2020  
Kromozom Biyolojisi ve Analizi, Postgraduate, 2019 - 2020  
Bitki Biyolojisinde Özel Konular, Doctorate, 2019 - 2020

## Advising Theses

Vardar F., Farklı Buğday (*Triticum aestivum* L.) Çeşitlerinde Alüminyum Toksisitesinin Karşılaştırılması, Postgraduate, A.Tan(Student), Continues  
Vardar F., Nezahat Gökyiğit Botanik Bahçesi'nin Bazı Kurak-Çorak Alan Bitkileri Üzerinde Palinolojik Araştırmalar, Doctorate, S.Anık(Student), Continues  
Vardar F., *Brassica oleracea* L. (Lahana)'da Anter Gelişimi ve Programlı Hücre Ölümü, Postgraduate, H.Can(Student), 2020  
Vardar F., *Triticum aestivum* L. (buğday)'da gümüş nanopartikülleri ile oluşturulmuş programlı hücre ölümünün belirlenmesi, Doctorate, F.YANIK(Student), 2019  
VARDAR F., Buğday (*triticum aestivum* l.)'da alüminyum toksisitesine karşı kitosan uygulamasının etkileri, Postgraduate, G.Kurtuluş(Student), 2019  
Vardar F., Buğday (*Triticum aestivum* L.)'da alüminyum toksisitesine karşı kitosan uygulamasının etkileri, Postgraduate, G.KURTULUŞ(Student), 2019  
VARDAR F., *Triticum aestivum* L. (buğday)'da gümüş nanopartikülleri ile oluşturulmuş programlı hücre ölümünün belirlenmesi, Doctorate, F.Yanık(Student), 2019  
Vardar F., Buğday (*Triticum aestivum* L.) köklerinde Al toksisitesinin iyileştirilmesine yönelik dışsal putresin uygulamaları, Postgraduate, Ö.AKGÜN(Student), 2019  
Vardar F., Arpa (*Hordeum vulgare* L.) köklerinde alüminyum ile uyarılmış programlı hücre ölümünün immünohistokimyasal analizi, Postgraduate, B.HURİ(Student), 2018  
Vardar F., Arpa (*Hordeum vulgare* L.) köklerinde alüminyum toksisitesine karşı salisilik asit uygulamasının etkileri, Postgraduate, G.YALÇIN(Student), 2016  
Vardar F., Al<sub>2</sub>O<sub>3</sub> (Alüminyum oksit) nanopartiküllerinin *Triticum aestivum* L. (buğday) kökleri üzerinde morfolojik, sitotoksik ve genotoksik etkileri, Postgraduate, F.YANIK(Student), 2014  
VARDAR F., Al<sub>2</sub> O<sub>3</sub> (alumina) nanopartiküllerinin *triticum aestivum* l. (buğday) kökleri üzerinde morfolojik, sitotoksik ve genotoksik etkileri, Postgraduate, F.Yanık(Student), 2014

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

- I. **Impact of silver nanoparticles on secondary metabolite composition and toxicity in anise (*Pimpinella anisum* L.) callus culture**  
Ulusoy E., Bozkurt A., Durmaz S., Servi H., VARDAR F., ERİŞEN S.  
BMC Plant Biology, vol.24, no.1, 2024 (SCI-Expanded)
- II. **Boraginaceae plant fragment as a foreign body in the lacrimal duct: Multidisciplinary diagnosis**  
Kolik A. K., ÇETİNBAS GENC A., VARDAR F., ÖZBİLEN K. T., Boral Ö., Büyükbabani N.  
European Journal of Ophthalmology, 2024 (SCI-Expanded)
- III. **Morphological, biochemical and molecular hallmarks of programmed cell death in stigmatic papillae of *Brassica oleracea* L.**

- ÇETİNBAŞ GENÇ A., Bayam C., VARDAR F.  
CARYOLOGIA, vol.74, no.1, pp.117-126, 2021 (SCI-Expanded)
- IV. **Effect of methyl jasmonate on in-vitro pollen germination and tube elongation of *Pinus nigra***  
ÇETİNBAŞ GENÇ A., VARDAR F.  
PROTOPLASMA, vol.257, no.6, pp.1655-1665, 2020 (SCI-Expanded)
- V. **Temporal Analysis of Al-Induced Programmed Cell Death in Barley (*Hordeum vulgare* L.) Roots**  
Vardar F.  
Caryologia, vol.73, no.1, pp.45-55, 2020 (SCI-Expanded)
- VI. **The effect of putrescine on pollen performance in hazelnut (*Corylus avellana* L.)**  
Çetinbaş-Genç A., Cai G., Duca S. D., VARDAR F., Ünal M.  
Scientia Horticulturae, vol.261, 2020 (SCI-Expanded)
- VII. **Differential effects of low and high temperature stress on pollen germination and tube length of hazelnut (*Corylus avellana* L.) genotypes**  
Cetinbas-Genc A., Cai G., VARDAR F., Unal M.  
SCIENTIA HORTICULTURAE, vol.255, pp.61-69, 2019 (SCI-Expanded)
- VIII. **DNA fingerprinting and assessment of some physiological changes in Al-induced *Bryophyllum daigremontianum* clones**  
ÖZYİĞİT İ. İ., Kaval A., Altundag Cakir E., VARDAR F.  
Molecular Biology Reports, vol.46, no.3, pp.2703-2711, 2019 (SCI-Expanded)
- IX. **Histochemical and Biochemical Alterations in the Stigma of *Hibiscus syriacus* (Malvaceae) During Flower Development**  
Cetinbas-Genc A., Yanik F., VARDAR F.  
CARYOLOGIA, vol.72, no.4, pp.3-13, 2019 (SCI-Expanded)
- X. **Assessment of silver nanoparticle-induced morphological, biochemical and physiological alterations in wheat roots**  
Yanik F., Vardar F.  
Annali di Botanica, vol.9, pp.83-94, 2019 (SCI-Expanded)
- XI. **Salicylic acid induced growth and developmental alterations in rye (*Secale cereale* L.)**  
Yanik F., AYTÜRK Ö., ÇETİNBAŞ GENÇ A., VARDAR F.  
Acta Botanica Croatica, vol.77, pp.45-50, 2018 (SCI-Expanded)
- XII. **Oxidative stress response to aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) nanoparticles in *Triticum aestivum***  
Yanik F., VARDAR F.  
BIOLOGIA, vol.73, no.2, pp.129-135, 2018 (SCI-Expanded)
- XIII. **DETERMINATION OF CYTOTOXIC EFFECTS OF PROCHLORAZ AND TRALKOXYDIM IN BARLEY (*HORDEUM VULGARE* L.) ROOTS**  
Metin-Kir S., VARDAR F., Unal M.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.5, pp.2697-2702, 2018 (SCI-Expanded)
- XIV. **Programmed cell death evidence in wheat (*Triticum aestivum* L.) roots induced by aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) nanoparticles**  
Yanik F., Ayturk O., VARDAR F.  
CARYOLOGIA, vol.70, no.2, pp.112-119, 2017 (SCI-Expanded)
- XV. **THE EFFECTS OF COLCHICINE ON GROWTH AND DEVELOPMENT OF SUNFLOWER (*HELIANTHUS ANNUUS* L.) SEEDLINGS**  
VARDAR F., AYDİN Y., Ayturk O., Unal M.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.6, pp.4113-4118, 2017 (SCI-Expanded)
- XVI. **The alleviating effects of salicylic acid application against aluminium toxicity in barley (*Hordeum vulgare*) roots**  
Yalcin G., VARDAR F.  
BIOLOGIA, vol.71, no.12, pp.1338-1344, 2016 (SCI-Expanded)
- XVII. **Determination of aluminum induced programmed cell death characterized by DNA fragmentation in Gramineae species**

- VARDAR F., Cabuk E., Ayturk O., AYDİN Y.  
CARYOLOGIA, vol.69, no.2, pp.111-115, 2016 (SCI-Expanded)
- XVIII. **Toxic Effects of Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>) Nanoparticles on Root Growth and Development in *Triticum aestivum***  
Yanik F., VARDAR F.  
WATER AIR AND SOIL POLLUTION, vol.226, no.9, 2015 (SCI-Expanded)
- XIX. **ASSESSMENT OF ALUMINUM INDUCED GENOTOXICITY WITH COMET ASSAY IN WHEAT, RYE AND TRITICALE ROOTS**  
VARDAR F., Akgul N., Ayturk O., AYDİN Y.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.24, pp.3352-3358, 2015 (SCI-Expanded)
- XX. **Long-Term Effects of Aluminum and Cadmium on Growth, Leaf Anatomy, and Photosynthetic Pigments of Cotton**  
ÖZYİĞİT İ. İ., VARDAR F., YAŞAR Ü., AKINCI Ş.  
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.44, no.21, pp.3076-3091, 2013 (SCI-Expanded)
- XXI. **Anther development and cytochemistry in *Asphodelus aestivus* (Asphodelaceae)**  
VARDAR F., Ismailoglu I., Unal M.  
TURKISH JOURNAL OF BOTANY, vol.37, no.2, pp.306-315, 2013 (SCI-Expanded)
- XXII. **Developmental and Cytochemical Features of Female Gametophyte in Endemic *Lathyrus undulatus* (Fabaceae)**  
Vardar F.  
INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY, vol.15, no.1, pp.135-139, 2013 (SCI-Expanded)
- XXIII. **ULTRASTRUCTURAL ASPECTS AND PROGRAMMED CELL DEATH IN THE TAPETAL CELLS OF *LATHYRUS UNDULATUS* BOIS**  
VARDAR F., Unal M.  
ACTA BIOLOGICA HUNGARICA, vol.63, no.1, pp.52-66, 2012 (SCI-Expanded)
- XXIV. **Embryological and cytological features of *Gagea bohemica* (Liliaceae)**  
VARDAR F., Ismailoglu I., Unal M.  
TURKISH JOURNAL OF BOTANY, vol.36, no.5, pp.462-472, 2012 (SCI-Expanded)
- XXV. **Immunolocalization of lipoxygenase in the anther wall cells of *Lathyrus undulatus* Boiss. During programmed cell death**  
VARDAR F., Ünal M.  
Notulae Botanicae Horti Agrobotanici Cluj-Napoca, vol.39, no.1, pp.71-78, 2011 (SCI-Expanded)
- XXVI. **DETERMINATION OF STRESS RESPONSES INDUCED BY ALUMINUM IN MAIZE (*ZEA MAYS*)**  
VARDAR F., Ismailoglu I., İNAN D., Unal M.  
ACTA BIOLOGICA HUNGARICA, vol.62, no.2, pp.156-170, 2011 (SCI-Expanded)
- XXVII. **Cytochemical and ultrastructural observations of anthers and pollen grains in *Lathyrus undulatus* Boiss**  
Vardar F., Unal M.  
ACTA BOTANICA CROATICA, vol.70, no.1, pp.53-64, 2011 (SCI-Expanded)
- XXVIII. **Development and Programmed Cell Death in the Filament Cells of *Lathyrus undulatus* Boiss.**  
Vardar F., Ünal M.  
Caryologia, vol.64, no.2, pp.164-172, 2011 (SCI-Expanded)
- XXIX. **CYTOTOXIC EFFECTS OF AN ELECTROMAGNETIC FIELD ON THE MERISTEMATIC ROOT CELLS OF LENTILS (*Lens clunaris* Medik.)**  
Eren P., VARDAR F., BİRBİR Y., İNAN D., Uenal M.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.19, no.3, pp.481-488, 2010 (SCI-Expanded)
- XXX. **Aluminum toxicity and resistance in higher plants**  
VARDAR F., ÜNAL M.  
Advances in Molecular Biology, vol.1, pp.1-12, 2007 (SCI-Expanded)
- XXXI. **Inhibition of barley root growth by Actinomycin D: Effects on mitotic activity, protein content and peroxidase activity**

Yumurtaci A., Vardar F., Uenal M.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.16, no.8, pp.917-921, 2007 (SCI-Expanded)

XXXII. **Embryological analysis of *Consolida regalis* L. (Ranunculaceae)**

Unal M., Vardar F.

ACTA BIOLOGICA CRACOVIENSIA SERIES BOTANICA, vol.48, no.1, pp.27-32, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Treatment with polyamines alleviates the effects of concomitantly applied aluminum in sunflower (*Helianthus annuus* L.) leaves**  
ÇETİNBAŞ GENÇ A., BAYAM C., VARDAR F.  
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.18, pp.341-347, 2022 (Peer-Reviewed Journal)
- II. **Nezahat Gökyiğit Botanik Bahçesi'nin (İstanbul) Bazı Kurak-Çorak Alan Bitkileri Üzerinde Palinolojik Araştırmalar**  
ANIK S., ÇETİNBAŞ GENÇ A., ÇINGAY B., VARDAR F.  
Bağ Bahçe Bilim Dergisi, vol.8, no.1, pp.134-172, 2021 (Peer-Reviewed Journal)
- III. **Kitosanın Özellikleri, Uygulama Alanları, Bitki Sistemlerine Etkileri**  
Kurtuluş G., VARDAR F.  
International Journal of Advances in Engineering and Pure Sciences, vol.32, no.3, pp.258-269, 2020 (Peer-Reviewed Journal)
- IV. **Karrikinolide Promotes Seed Germination but Has no Effect on Leaf Segment Senescence in *Triticum aestivum* L.**  
GÖREN SAĞLAM N., Duygun K., Kaya G., VARDAR F.  
European Journal of Biology, vol.78, no.2, 2019 (Peer-Reviewed Journal)
- V. **Bitkilerde Programlı Hücre Ölümü**  
Yanık F., ÇETİNBAŞ GENÇ A., VARDAR F.  
Marmara Fen Bilimleri Dergisi, vol.30, pp.157-166, 2018 (Peer-Reviewed Journal)
- VI. **Development of Male and Female Gametophyte in *Symphytum orientale* L. (Boraginaceae)**  
VARDAR F., Yavuz E. A.  
Notulae Scientia Biologicae, vol.10, no.1, pp.124-129, 2018 (Peer-Reviewed Journal)
- VII. **Aluminum induced caspase like activities in some Gramineae species**  
Özlem A., VARDAR F.  
Advances in Food Sciences, vol.37, pp.71-75, 2015 (Peer-Reviewed Journal)
- VIII. **Proteolytic enzymes in plant programmed cell death**  
VARDAR F., ÜNAL M.  
Türk Bilimsel Derlemeler Dergisi, 2008 (Peer-Reviewed Journal)
- IX. **Effects of Aluminum on in vitro Root Growth and Seed Germination of Tobacco *Nicotiana tabacum* L**  
VARDAR F., ARICAN E., GÖZÜKIRMIZI N.  
Advances in Food Sciences, vol.28, no.2, pp.85-88, 2006 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **The Role of Salicylic Acid in Plant Reproductive Development**  
ÇETİNBAŞ GENÇ A., VARDAR F.  
in: Salicylic Acid- A Versatile Plant Growth Regulator, Hayat Shamsul, Siddiqui Husna, Damalas Cristos, Editor, Springer, pp.35-46, 2021
- II. **Recent Advances in Plant Science**  
Vardar F. (Editor), Aydın Y. (Editor), Altınkut Uncuoğlu A. (Editor)  
NOVA Science Publishers Inc. , New-York, 2020

- III. **Anther Development and Programmed Cell Death in Brassica Oleracea L. (Cabbage)**  
Küçükali H. C., Çetinbaş Genç A., Vardar F.  
in: Agricultural Research Updates, PRATHAMESH GORAWALA,SRUSHTI MANDHATRI, Editor, NOVA Science Publishers Inc. , New York, pp.167-182, 2020
- IV. **Identification of Plant Programmed Cell Death**  
ÇETİNBAŞ GENÇ A., VARDAR F.  
in: Advances in Environmental Research, Daniels Justin, Editor, Nova Science Publishers, New York, pp.195-219, 2020
- V. **Programmed cell death in plant reproductive development**  
ÇETİNBAŞ GENÇ A., VARDAR F.  
in: Recent Advances in Plant Sciences, Vardar Filiz, Aydın Yıldız, Altınkut Uncuoğlu Ahu, Editor, Nova Science Publishers, pp.341-361, 2020
- VI. **The effects of putrescine application against aluminum toxicity in wheat (Triticum aestivum) roots**  
Akgün Ö., ÇETİNBAŞ GENÇ A., Yanık F., VARDAR F.  
in: Recent Advances in Plant Sciences, Vardar Filiz, Aydın Yıldız, Altınkut Uncuoğlu Ahu, Editor, Nova Science Publishers, pp.379-399, 2020
- VII. **Abiotic stress induced programmed cell death in plants**  
Yanık F., ÇETİNBAŞ GENÇ A., VARDAR F.  
in: Plant Life Under Changing Environment-Responses and Management, Durgesh Kumar Tripathi, Vijay Pratap Singh, Devendra Kumar Chauhan, Shivesh Sharma, Sheo Mohan Prasad, Nawal Kishore Dubey, Naleeni Ramawat, Editor, Elsevier Academic Press, pp.1-45, 2020
- VIII. **Determination of aluminum-induced oxidative and genotoxic effects in sunflower leaves**  
ÇETİNBAŞ GENÇ A., Kılıç Çakmak E., Yanık F., VARDAR F., ALTINKUT UNCUOĞLU A., Aydın Y.  
in: A Closer Look at the Comet Assay, Keith H. Harmon, Editor, Nova Science Publishers, pp.143-170, 2020
- IX. **Figure 2: Determination of Al ion accumulation, and loss of plasma membrane integrity of control and experimental groups in wheat roots after 96 h. a. Al ion accumulation, b. Loss of plasma membrane integrity. Distinct letters point out the statistically significant differences (P 0.05) and error bars indicate the standard deviations.**  
Çetinbaş Genç A., Kılıççakmak E., Yanık F., Vardar F., Aydın Y.  
in: A closer Look at the Comet Assay, Keith H Harmon, Editor, NOVA Science Publishers Inc. , New-York, pp.143-170, 2019
- X. **Aluminum-induced toxicity and programmed cell death in plants**  
VARDAR F., Yanık F., ÇETİNBAŞ GENÇ A., Kurtuluş G.  
in: Advances in Health and Natural Sciences, Yüksel Burcu, Karagül Mustafa Sencer, Editor, Nova Science Publishers, pp.155-181, 2019
- XI. **Single Cell Gel Electrophoresis for Determination of Plant Responses to Genotoxic Stress**  
Aydın Y., Altınkut Uncuoğlu A., Vardar F.  
in: Advances in Health and Natural Sceinces, Dr. Burcu Yüksel,Dr. Mustafa Sencer Karagül, Editor, NOVA Science Publishers Inc. , New-York, pp.203-222, 2018
- XII. **Aluminum-Induced Toxicity and Programmed Cell Death in Plants**  
Vardar F., Yanık F., Çetinbaş Genç A., Kurtuluş G.  
in: Advances in Health and Natural Sciences, Burcu Yüksel, Mustafa Sencer Karagül, Editor, NOVA Science Publishers Inc. , New-York, pp.155-182, 2018
- XIII. **Mechanism and Interaction of Nanoparticle-Induced Programmed Cell Death in Plants**  
Yanık F., Vardar F.  
in: Phytotoxicity of Nanoparticles, Mohammad Faisal, Quaiser Saquib, Abdulrahman A. Alatar, Abdulaziz A. Al-Khedhairi, Editor, Springer, London/Berlin , London, pp.175-196, 2018
- XIV. **Hücre Biyolojisi Laboratuvarı**  
ÜNAL M., VARDAR F., İSMAİLOĞLU I.  
Nobel, 2014
- XV. **Callose in Plant Sexual Reproduction**

Vardar F.

in: Current Progress in Biological Research, Marina Silva-Opps, Editor, IN TECH OPEN SCIENCE, Rijeka, pp.319-343, 2013

## Refereed Congress / Symposium Publications in Proceedings

- I. **Multidisipliner Bir Merak Hikayesi: Lakrimal Kanalda Yabancı Cisim**  
Kolik A. K., Çetinbaş Genç A., Vardar F., Özbilen K. T., Boral Ö., Büyükbabani N.  
32. Ulusal Patoloji Kongresi, Antalya, Turkey, 25 - 29 October 2023, pp.1-3
- II. **Response of in vitro pollen germination and pollen tube growth of kiwifruit to epi-brassinosteroid and methyl jasmonate**  
ÇETİNBAŞ GENÇ A., VARDAR F.  
4th International Eurasian Conference on Biological and Chemical Sciences, Turkey, 24 November 2021
- III. **The Effects of Polyamines on Pollen Germination and Pollen Tube Growth of Kiwifruit**  
ÇETİNBAŞ GENÇ A., VARDAR F.  
8. Ulusal Botanik Kongresi, Turkey, 23 October 2021
- IV. **Nezahat Gökyiğit Botanik Bahçesi'nin Bazı Kurak-Çorak Alan Bitkileri Üzerinde Palinolojik Araştırmalar**  
ANIK S., ÇETİNBAŞ GENÇ A., ÇINGAY B., VARDAR F.  
7. Ulusal Botanik Kongresi, Turkey, 9 - 11 October 2020
- V. **Salisilik Asit Uygulamasının Kivinin Polen Performansına Olan Etkileri**  
ÇETİNBAŞ GENÇ A., AYDIN R., VARDAR F.  
7. Ulusal Botanik Kongresi, Turkey, 9 - 11 October 2020
- VI. **Caspase-1-like activity and expression of TaVPE4 in the course of silver nanoparticles-induced programmed cell death**  
Kurtuluş G., VARDAR F.  
II. International Green Biotechnology Congress, 9 - 11 September 2019
- VII. **Anter development and programmed cell death in Brassica oleraceae L. (cabbage)**  
Kurtuluş G., VARDAR F.  
II. International Green Biotechnology Congress, 9 - 11 September 2019
- VIII. **The alleviation effects of chitosan on aluminum toxicity in triticum aestivum (wheat) roots**  
Kurtuluş G., VARDAR F.  
II. International Green Biotechnology Congress, 9 - 11 September 2019
- IX. **Borik Asitin Vibirnum tinus L. (Caprifoliaceae)'xx nin İn Vitro Polen Tüp Uzaması Üzerine Etkisi**  
Kurtuluş G., ÇETİNBAŞ GENÇ A., Yanık F., VARDAR F.  
International Agriculture, Environment and Health Congress, 26 - 28 October 2018
- X. **Effects of Low and High Temperature Stresses on Pollen Germination and Pollen Tube Growth in Corylus avellana cultivars**  
ÇETİNBAŞ GENÇ A., CAI G., VARDAR F., ÜNAL M.  
7th Balkan Botanical Congress, 10 - 14 September 2018
- XI. **The Mitochondrial Markers of Programmed Cell Death Induced by Silver Nanoparticles on Roots of Triticum aestivum**  
Yanık F., Vardar F.  
4th Plant Protease and PCD Symposium, Ghent, Belgium, 11 - 13 September 2018, pp.41
- XII. **Aluminum Stress Induced Physiological and Genotoxic Alterations in Bryophyllumdaigremontianum Raym.-Hamet H. Perrier**  
ÖZYİĞİT İ. İ., ALTUNDAĞ ÇAKIR E., Kaval A., VARDAR F.  
International Symposium of Ecology, 19 - 23 June 2018
- XIII. **The Effects of Putrescine Application against Aluminum Toxicityin Wheat (Triticum aestivum L.) Roots**

- VARDAR F., Akgün Ö., ÇETİNBAŞ GENÇ A., Yanık F.  
4th International Congress on Applied Biological Sciences, 3 - 05 May 2018
- XIV. **The Effects of Chitosan Application against Aluminum Toxicity in Wheat (*Triticum aestivum* L.)**  
Kurtuluş G., VARDAR F.  
4th International Congress on Applied Biological Sciences, 3 - 05 May 2018
- XV. **Temporal Analysis of Al-Induced Programmed Cell Death in Barley (*Hordeum vulgare* L.) Roots**  
Gölge B. H., VARDAR F.  
4th International Congress on Applied Biological Sciences, 3 - 05 May 2018
- XVI. **Cytochemical identification of programmed cell death in plants**  
VARDAR F.  
International Congress on Microscopy and Spectroscopy (INTERM), 24 - 30 April 2018
- XVII. **Developmental Features of Male and Female Reproductive Organ in *Viburnum tinus* L.**  
ÇETİNBAŞ GENÇ A., VARDAR F.  
International Eurasian Conference on Biological and Chemical Sciences, 26 - 27 April 2018
- XVIII. **Strategies for Haploid Plant Production: Experiences from Sunflower**  
Aydın Y., ALTINKUT UNCUOĞLU A., Aktaş Y. E., VARDAR F., Evcı G.  
11th World Congress on Plant Biotechnology Agriculture, 5 - 07 March 2018
- XIX. **Comparison of Morphological and Biochemical Changes in Stigma Development of *Hibiscus syriacus* L. (Malvaceae)**  
ÇETİNBAŞ GENÇ A., Yanık F., VARDAR F.  
International Congress of Agriculture and Environment, 16 - 18 November 2017
- XX. **Silver Nanoparticles Induced Programmed Cell Death Evidences in Wheat Roots**  
Yanık F., VARDAR F.  
International Green Biotechnology Congress, 11 - 13 September 2017
- XXI. **Sıcaklık stresinin *Viburnum tinus* L. (Caprifoliaceae)'nin polen çimlenmesi ve polen tüp uzaması üzerine etkileri**  
ÇETİNBAŞ GENÇ A., Kurtuluş G., Yanık F., VARDAR F.  
4. Ulusal Botanik Kongresi, Turkey, 6 - 09 July 2017
- XXII. **Alüminyum toksisitesinin ayçiçeği (*Helianthus annuus* L.) üzerindeki etkilerinin biyokimyasal ve genotoksik analizi**  
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- XXVII. **Farklı Konsantrasyonlarda AlCl<sub>3</sub> Uygulanmış Gözyaşı Bitkisi (*Bryophyllum daigremontianum* Raym.-Hamet & H. Perrier) Klonlarında Mineral Beslenme Durumunun Araştırılması**  
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- XXIX. **Bazı Ağır Metallerin Arpa *Hordeum vulgare* L Köklerinin Büyüme Parametreleri Üzerindeki Etkileri**  
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- XXX. **Genotoxic Effects of Aluminum Oxide Nanoparticles in *Triticum aestivum* (wheat) Characterized by ISSR Analysis**  
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