

# Prof. NESLİHAN SARUHAN GÜLER

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Biyoloji, Turkey 2002 - 2008

Doctorate, Universitaet Hannover, Institute Of Botany, Germany 2004 - 2005

Postgraduate, Karadeniz Technical University, -, Biyoloji, Turkey 1998 - 2002

Undergraduate, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Biyoloji, Turkey 1994 - 1998

## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Education Management and Planning, Doğa ve Mühendislik Bilimlerinde Araştırma Projesi Hazırlama, TÜBİTAK, 2014

## Dissertations

Doctorate, Ctenanthe setosa'da Yaprak Kıvrılması Sırasında Apoplastik ve Simplastik Alanlarda Antioksidan Sistemde Meydana Gelen Değişimler, Karadeniz Technical University, -, Biyoloji, 2008

Postgraduate, Poliaminlerin Yaprak Kıvrılmasına Etkisinin Biyokimyasal Seviyede Araştırılması, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Biyoloji, 2002

## Research Areas

Nutrition and Dietetics, Life Sciences, Plant Biology, Plant Physiology, Biochemistry, Plant Biochemistry, Biotechnology, Plant Biotechnology, Molecular Biology and Genetics, Plant Molecular Genetics, Health Sciences, Natural Sciences

## Academic titles / Tasks

Associate Professor, Karadeniz Technical University, Sağlık Bilimleri Fakültesi, Beslenme ve Diyetetik, 2014 - Continues  
Associate Professor, Recep Tayyip Erdogan University, Fen-Edebiyat Fakültesi, Biyoloji, 2013 - 2014  
Assistant Professor, Recep Tayyip Erdogan University, Fen-Edebiyat Fakültesi, Biyoloji, 2008 - 2013  
Research Assistant, Karadeniz Technical University, Rize Fen-Edebiyat Fakültesi, Biyoloji, 1999 - 2008

## Academic and Administrative Experience

Karadeniz Technical University, Sağlık Bilimleri Fakültesi, Fakülte Kurulu Üyeliği, 2017 - Continues  
Karadeniz Technical University, Sağlık Bilimleri Fakültesi, Fakülte Yönetim Kurulu Üyeliği, 2017 - Continues  
Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Biyoloji , 2011 - 2013  
Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Biyoloji , 2007 - 2010

## Supervised Theses

SARUHAN GÜLER N., Transgenik Domates Bitkisinde (Solanum lycopersicum cv. UC82MA 35S::ATHB7) Kuraklığa Dayanıklılık Sağlayan ATHB7 Geninin Ekspresyon Profilinin Araştırılması, Postgraduate, N.Pehlivan(Student), 2011

## Jury Memberships

Post Graduate, Tez Savunma Jürisi, Recep Tayyip Erdoğan Üniversitesi, July, 2019  
Post Graduate, Tez Savunma Jürisi, Recep Tayyip Erdoğan Üniversitesi, April, 2016  
Post Graduate, Tez Savunma Jürisi, KTÜ Eczacılık Fakültesi, January, 2016  
Post Graduate, Tez Savunma Jürisi (Ülkü Zeynep Üreyen), Recep Tayip Erdoğan Üniversitesi, July, 2015  
Post Graduate, Tez Savunma Jürisi (Pınar Uzuner), Recep Tayip Erdoğan Üniversitesi, July, 2015  
Post Graduate, Tez Savunma Jürisi (Elvan Ofluoğlu), Recep Tayip Erdoğan Üniversitesi, July, 2015  
Appointment to Academic Staff-Assistant Professorship, Akademik Kadro Ataması, Gümüşhane Üniversitesi, April, 2014  
Post Graduate, Tez Savunma Jürisi, Recep Tayyip Erdoğan Üniversitesi, June, 2013  
Post Graduate, Tez Savunma Jürisi, Recep Tayyip Erdoğan Üniversitesi, March, 2012

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

- I. **Alpha Lipoic Acid Application Promotes Water-Deficit Tolerance by Modulating Osmoprotectant Metabolism-Related Genes in Maize**  
SARUHAN GÜLER N., Ozturk K., Sezgin A., Altuntas C., KADIOĞLU A., TERZİ R.  
RUSSIAN JOURNAL OF PLANT PHYSIOLOGY, vol.68, no.6, pp.1152-1160, 2021 (SCI-Expanded)
- II. **Dehydrins: an overview of current approaches and advancement**  
SARUHAN GÜLER N., TERZİ R.  
TURKISH JOURNAL OF BOTANY, vol.44, no.5, pp.481-492, 2020 (SCI-Expanded)
- III. **Salt stress triggered changes in osmoregulation and antioxidants in herbaceous perennial Inula plants**  
Pehlivan Gedik N., SARUHAN GÜLER N.  
JOURNAL OF AGRICULTURAL SCIENCE, vol.x, 2019 (SCI-Expanded)
- IV. **Protective effect of a natural ally on simultaneous mild heat and salt episodes in maize seedlings**  
Pehlivan N., SARUHAN GÜLER N.  
ACTA PHYSIOLOGIAE PLANTARUM, vol.40, no.12, 2018 (SCI-Expanded)
- V. **Protective effect of a natural ally on simultaneous mild heat and salt episodes**  
Pehlivan Gedik N., SARUHAN GÜLER N.  
ACTA PHYSIOLOGIAE PLANTARUM, vol.40, pp.203-0, 2018 (SCI-Expanded)

- VI. **Exogenous hydrogen peroxide alleviates copper toxicity by stimulating antioxidant system and increases photosynthesis efficiency in maize seedlings**  
 TERZİ R., SARUHAN GÜLER N., BIŞKİN N., KADIOĞLU A.  
 FRESenius ENVIRONMENTAL BULLETIN, vol.27, pp.996-1005, 2018 (SCI-Expanded)
- VII. **EXOGENOUS HYDROGEN PEROXIDE ALLEVIATES COPPER TOXICITY BY STIMULATING ANTIOXIDANT SYSTEM AND INCREASES PHOTOSYNTHESIS EFFICIENCY IN MAIZE SEEDLINGS**  
 TERZİ R., SARUHAN-GULER N., BIŞKİN N., KADIOĞLU A.  
 FRESenius ENVIRONMENTAL BULLETIN, vol.27, no.2, pp.996-1005, 2018 (SCI-Expanded)
- VIII. **Exogenous hydrogen peroxide alleviates copper toxicity by stimulating antioxidant system and increases photosynthesis efficiency in maize seedlings**  
 Terzi R., Saruhan Güler N., Bişkin N., Kadioğlu A.  
 Fresenius Environmental Bulletin, vol.27, no.2, pp.996-1005, 2018 (SCI-Expanded)
- IX. **Exogenously Applied Polyamines Ameliorate Osmotic Stress-Induced Damages and Delays Leaf Rolling Through Improving Antioxidant System in Maize Genotypes**  
 Kutlu Çalışkan N., KADIOĞLU A., SARUHAN GÜLER N.  
 TURKISH JOURNAL OF BIOLOGY, vol.41, pp.563-574, 2017 (SCI-Expanded)
- X. **Exogenously applied polyamines ameliorate osmotic stress-induced damages and delay leaf rolling by improving the antioxidant system in maize genotypes**  
 KUTLU CALISKAN N., KADIOĞLU A., SARUHAN GÜLER N.  
 TURKISH JOURNAL OF BIOLOGY, no.4, pp.563-574, 2017 (SCI-Expanded)
- XI. **EXOGENOUS LOW-DOSE HYDROGEN PEROXIDE ENHANCES DROUGHT TOLERANCE OF SOYBEAN (GLYCINE MAX L.) THROUGH INDUCING ANTIOXIDANT SYSTEM**  
 SARUHAN GÜLER N., Pehlivan N.  
 ACTA BIOLOGICA HUNGARICA, vol.67, no.2, pp.169-183, 2016 (SCI-Expanded)
- XII. **Trichoderma atroviride ID20G inoculation ameliorates drought stress-induced damages by improving antioxidant defence in maize seedlings**  
 SARUHAN GÜLER N., Pehlivan N., Karaoglu S. A., Guzel S., Bozdeveci A.  
 ACTA PHYSIOLOGIAE PLANTARUM, vol.38, no.6, 2016 (SCI-Expanded)
- XIII. **Exogenous Low-Dose Hydrogen Peroxide Enhance Drought Tolerance of Soybean (Glycine max L.) Through Inducing Antioxidant System**  
 SARUHAN GÜLER N., Pehlivan N.  
 ACTA BIOLOGICA HUNGARICA, vol.67, pp.169-183, 2016 (SCI-Expanded)
- XIV. **Hydrogen Peroxide Extends Postharvest Life of Ctenanthe setosa Leaf Cuts under Osmotic Stress by Reducing Leaf Rolling**  
 SAĞLAM A., Kalaycıoğlu E., Güven F. G., SARUHAN GÜLER N., KADIOĞLU A., Demiralay M.  
 HORTICULTURE ENVIRONMENT AND BIOTECHNOLOGY, vol.55, no.4, pp.308-314, 2014 (SCI-Expanded)
- XV. **Lignification response for rolled leaves of Ctenanthe setosa under long-term drought stress**  
 TERZİ R., Saruhan Guler N., Kutlu Caliskan N., KADIOĞLU A.  
 TURKISH JOURNAL OF BIOLOGY, vol.37, no.5, pp.614-619, 2013 (SCI-Expanded)
- XVI. **Salicylic acid pretreatment induces drought tolerance and delays leaf rolling by inducing antioxidant systems in maize genotypes**  
 Saruhan N., SAĞLAM A., KADIOĞLU A.  
 ACTA PHYSIOLOGIAE PLANTARUM, vol.34, no.1, pp.97-106, 2012 (SCI-Expanded)
- XVII. **Apoplastic and symplastic solute concentrations contribute to osmotic adjustment in bean genotypes during drought stress**  
 Guler N., SAĞLAM A., Demiralay M., KADIOĞLU A.  
 TURKISH JOURNAL OF BIOLOGY, vol.36, no.2, pp.151-160, 2012 (SCI-Expanded)
- XVIII. **Changes in Anatomical and Physiological Parameters of Soybean under Drought Stress**  
 Makbul S., SARUHAN GÜLER N., Durmuş N., Güven S.  
 TURKISH JOURNAL OF BOTANY, vol.35, pp.369-377, 2011 (SCI-Expanded)
- XIX. **SCAVENGING OF REACTIVE OXYGEN SPECIES IN APOPLASTIC AND SYMPLASTIC AREAS OF ROLLED**

## **LEAVES IN <i>CTENANTHE SETOSA</i> UNDER DROUGHT STRESS**

Saruhan N., TERZİ R., SAĞLAM A., KADIOĞLU A.

ACTA BIOLOGICA HUNGARICA, no.3, pp.282-298, 2010 (SCI-Expanded)

## **XX. INORGANIC AND ORGANIC SOLUTES IN APOPLASTIC AND SYMPLASTIC SPACES CONTRIBUTE TO OSMOTIC ADJUSTMENT DURING LEAF ROLLING IN CTENANTHE SETOSA**

SAĞLAM A., TERZİ R., NAR H., Saruhan N., AYAZ F. A., KADIOĞLU A.

ACTA BIOLOGICA CRACOVENSIA SERIES BOTANICA, vol.52, no.1, pp.37-44, 2010 (SCI-Expanded)

## **XXI. The Relationship between Leaf Rolling and Ascorbate-Glutathione Cycle Enzymes in Apoplastic and Symplastic Areas of Ctenanthe setosa Subjected to Drought Stress**

Saruhan N., TERZİ R., SAĞLAM A., KADIOĞLU A.

BIOLOGICAL RESEARCH, vol.42, no.3, pp.315-326, 2009 (SCI-Expanded)

## **XXII. The Effects of Exogenous Polyamines on Some Biochemical Changes during Drought Stress in Ctenanthe setosa (Rosc.) Eichler**

SARUHAN GÜLER N., TERZİ R., KADIOĞLU A.

ACTA BIOLOGICA HUNGARICA, vol.57, no.2, pp.221-229, 2006 (SCI-Expanded)

## **XXIII. The Effects of Exogenous Polyamines on Some Biochemical Changes during Drought Stress in Ctenanthe seosa (Rosc.) Eichler**

SARUHAN GÜLER N., TERZİ R., KADIOĞLU A.

ACTA BIOLOGICA HUNGARICA, vol.57, pp.221-229, 2006 (SCI-Expanded)

## **XXIV. Alleviation of seed dormancy in Plantago major**

Saruhan N., Kadioglu A., Durmuş N.

ISRAEL JOURNAL OF PLANT SCIENCES, vol.50, no.3, pp.177-179, 2002 (SCI-Expanded)

## **Articles Published in Other Journals**

### **I. Role of H<sub>2</sub>O<sub>2</sub> on photosynthetic characteristics of soybean genotypes under low water input**

SARUHAN GÜLER N., Pehlivan Gedik N.

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.24, 2020 (Peer-Reviewed Journal)

### **II. Salt Stress Triggered Changes in Osmoregulation and Antioxidants in Herbaceous Perennial Inula Plants (Asteraceae)**

Pehlivan N., SARUHAN GÜLER N.

ALINTERI JOURNAL OF AGRICULTURE SCIENCES, vol.34, no.1, pp.39-46, 2019 (ESCI)

### **III. The impact of Trichoderma seed priming on drought resistance in tomato plants (Solanum lycopersicum L.)**

Pehlivan Gedik N., SARUHAN GÜLER N., Alpay Karaoğlu Ş.

HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY, vol.46, no.2, pp.263-272, 2018 (Peer-Reviewed Journal)

## **Papers Published in Refereed Scientific Meetings**

### **I. Role of Dehydrins in Controlling Leaf Rolling As An Indicator of Decreased Water Status**

SARUHAN GÜLER N., KADIOĞLU A., Öztürk K., Demiralay M., TERZİ R.

UBFS-2018. III. Plant Physiology Symposium with International Participation, Çanakkale, Turkey, 26 - 29 September 2018

### **II. Alpha Lipoic Acid Alleviates Osmotic Stress in Maize Plants by Regulating of Gene Expression Profiles Involved in Osmolyte Metabolism**

SARUHAN GÜLER N., Öztürk K., ALTUNTAŞ C., SEZGİN A., KADIOĞLU A., TERZİ R.

1st INTERNATIONAL PLANT BIOLOGY CONGRESS, Konya, Turkey, 10 - 12 May 2018, pp.306

### **III. Kuraklık Koşullarında Putresin Uygulanmış Zea mays Fidelerinde Klorofil Metabolizması ve Fotosenteze Karışan Bazı Genlerin İfadelerindeki Değişimlerin İncelenmesi**

TERZİ R., ALTUNTAŞ C., SARUHAN GÜLER N., KADIOĞLU A.

1st INTERNATIONAL PLANT BIOLOGY CONGRESS, Konya, Turkey, 10 - 12 May 2018, pp.307

- IV. **How Leaf Rolling Is Regulated By Reactive Oxygen Species Under Stressful Environments**  
SAĞLAM A., TERZİ R., SARUHAN GÜLER N., KADIOĞLU A.  
1st International Congress on Plant Biology, Konya, Turkey, 10 - 12 May 2018, pp.86
- V. **How Leaf Rolling Is Regulated By Reactive Oxygen Species Under Stressed Environments**  
Sağlam A., Terzi R., Saruhan Güler N., Kadioğlu A.  
1st INTERNATIONAL PLANT BIOLOGY CONGRESS, Konya, Turkey, 10 - 12 May 2018, pp.86
- VI. **Recent advances in regulation of leaf rolling and the role of H<sub>2</sub>O<sub>2</sub> as a signaling molecule**  
SAĞLAM A., TERZİ R., SARUHAN GÜLER N., KADIOĞLU A.  
International Forestry and Environment Symposium Climate Change and Tree Migration, Trabzon, Turkey, 7 - 10 November 2017
- VII. **Evaluation of Dehydrin Accumulation in Leaf Rolling Response as an Indicator of Drought Stress**  
SARUHAN GÜLER N., TERZİ R., Öztürk K., Demiralay M., SAĞLAM A., KADIOĞLU A.  
International Forestry and Environment Symposium Climate Change and Tree Migration, Trabzon, Turkey, 7 - 10 November 2017
- VIII. **Evaluation of dehydrin accumulation in leaf rolling response as a indicator of drought stress**  
SARUHAN GÜLER N., TERZİ R., Öztürk K., DEMİRALAY M., SAĞLAM A., KADIOĞLU A.  
International Forestry and Environment Symposium, Climate Change and Tree Migration, Trabzon, Turkey, 7 - 10 November 2017, pp.225
- IX. **The effects of hydrogen peroxide pre-treatment on photosynthetic machinery and antioxidant system in maize cultivars exposed to excess copper**  
TERZİ R., SARUHAN GÜLER N., Bişkin N., KADIOĞLU A.  
ISEEPP-2017, VIII. International Symposium on Ecology and Environmental Problems, Çanakkale, Turkey, 4 - 07 October 2017, pp.217
- X. **The Effect of Hydrogen Peroxide Pre-Treatment on Photosynthetic Machinery and Antioxidant System in Maize Cultivars Exposed to Excess Copper**  
TERZİ R., SARUHAN GÜLER N., BIŞKİN N., KADIOĞLU A.  
ISEEP-2017 VIII. INTERNATIONAL SYMPOSIUM ON ECOLOGY AND ENVIRONMENTAL PROBLEMS, Çanakkale, Turkey, 4 - 07 October 2017, pp.217
- XI. **The Effect of Hydrogen Peroxide Pre-Treatment on Photosynthetic Machinery and Antioxidant System in Maize Cultivars Exposed to Excess Copper**  
TERZİ R., SARUHAN GÜLER N., BIŞKİN N., KADIOĞLU A.  
ISEEP-2017 VIII. INTERNATIONAL SYMPOSIUM ON ECOLOGY AND ENVIRONMENTAL PROBLEMS, Çanakkale, Turkey, 4 - 07 October 2017
- XII. **Interaction between Alpha Lipoic Acid and Osmolyte Compounds under Osmotic Stress**  
Saruhan Güler N., Öztürk K., Sezgin A., Altuntaş C., Sağlam A., Kadioğlu A., Terzi R.  
ISEEP-2017 VIII. INTERNATIONAL SYMPOSIUM ON ECOLOGY AND ENVIRONMENTAL PROBLEMS, Çanakkale, Turkey, 4 - 07 October 2017
- XIII. **Interaction between alpha lipoic acid and osmolyte compounds under osmotic stress**  
SARUHAN GÜLER N., Öztürk K., Sezgin A., Altuntaş c., SAĞLAM A., KADIOĞLU A., TERZİ R.  
ISEEPP-2017, VIII. International Symposium on Ecology and Environmental Problems, Çanakkale, Turkey, 4 - 07 October 2017, pp.216
- XIV. **Interaction between Reactive Oxygen Species, Endogenous Salicylic Acid, Abscisic Acid and Dehydrins in Response to Leaf Rolling**  
SARUHAN GÜLER N., KADIOĞLU A., SAĞLAM A., Öztürk K., Demiralay M., TERZİ R.  
13th International Conference on Reactive Oxygen and Nitrogen Species in Plants: Emerging Roles in Plant Form and Function, İzmir, Turkey, 10 - 13 September 2017
- XV. **Interaction between Dehydrins and Antioxidant System during Osmotic Stress in Rolled Leaf 1 (rld1) Mutant of Maize (Zea mays L.)**  
SARUHAN GÜLER N., Öztürk K., Küçük L., Demiralay M., TERZİ R., KADIOĞLU A.

International Conference on Biological Sciences, Konya, Turkey, 21 - 23 October 2016

- XVI. **Yaprak Kıvrılma Cevabında Dehidrinler ve Antioksidan Sistem Arasındaki İlişkinin Belirlenmesinde Bazı Biyoregülatörlerin Rolü**  
SARUHAN GÜLER N., Demiralay M., Küçük L., Öztürk K., TERZİ R., KADIOĞLU A.  
II. Ulusal Bitki Fizyolojisi Sempozyumu, Mersin, Turkey, 31 August - 03 September 2016, pp.11
- XVII. **Application of a Local Fungal Agent on Maize Seedlings to Improve Drought Stress Tolerance**  
Pehlivan Gedik N., SARUHAN GÜLER N., Alpay Karaoğlu Ş., Güzel Ş., Bozdeveci A.  
1st International Black Sea Congress on Environmental Sciences (IBCESS-2016), Giresun, Turkey, 31 August - 03 September 2016
- XVIII. **The Investigation of Relationship between Dehydrins and Antioxidant System in Leaf Rolling Response**  
SARUHAN GÜLER N., Demiralay M., Küçük L., Öztürk K., TERZİ R., KADIOĞLU A.  
Plant Biology Europe EPSO/FESPB 2016 Congress, Prag, Czech Republic, 26 - 30 June 2016
- XIX. **Effects of Hydrogen Peroxide Spraying on Drought Stress in Soybean**  
Pehlivan Gedik N., SARUHAN GÜLER N.  
International Conference on Engineering and Natural Sciences, Sarajevo, Bosnia And Herzegovina, 24 - 28 June 2016
- XX. **The effect of some bioregulators in determining of relationship between leaf rolling response and dehydrins**  
SARUHAN GÜLER N., Demiralay M., Şahin A. E., Küçük L., TERZİ R., KADIOĞLU A.  
EPPN Plant Phenotyping Symposium, Barcelona, Spain, 11 - 12 November 2015, pp.35
- XXI. **Mısır Bitkisinde (Zea mays, Poaceae) Trichoderma harzianum ID20G İnokülasyonunun Kuraklık Toleransı ve Büyüme Üzerine Etkisi**  
SARUHAN GÜLER N., Pehlivan N., Güzel Ş., Bozdeveci A., Alpay Karaoğlu Ş.  
1. Ulusal Bitki Fizyoloji Kongresi, Erzurum, Turkey, 1 - 04 September 2015, pp.53
- XXII. **Trichoderma harzianum ID20G İnokulation Ameliorates Drought Stress Induced Damages by Improving Antioxidant Defence in Maize Seedlings**  
Pehlivan N., Bozdeveci A., Güzel Ş., SARUHAN GÜLER N., Alpay Karaoğlu Ş.  
International Conference on Environmental Science and Technology (ICOEST?), Nevşehir, Turkey, 18 - 21 June 2013, pp.12
- XXIII. **Cloning and Sequencing of a Versative calcium Binding Integral Membrane-Bound Chaperone of ER gene: Calnexin in Ctenanthe setosa**  
Pehlivan N., SARUHAN GÜLER N., KADIOĞLU A., Sandallı C.  
First International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 23 - 24 November 2012, pp.43
- XXIV. **Cloning and Sequencing of a Versatile Calcium Binding Integral Membrane-Bound Chaperone of ER gene : Calnexin in Ctenanthe setosa**  
Pehlivan N., SARUHAN GÜLER N., KADIOĞLU A., Sandallı C.  
First International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 23 - 24 November 2012, pp.21
- XXV. **Ctenanthe setosa'da (Marantaceae) Askorbat Peroksidaz (APX) Geninin Klonlanması ve Dizin Analizi**  
Pehlivan N., SARUHAN GÜLER N., KADIOĞLU A., Sandallı C.  
21. Ulusal Biyoloji Kongresi, İzmir, Turkey, 3 September - 07 July 2012, pp.527
- XXVI. **Kuraklığa Hassas ve Dayanıklı Mısır (Zea mays, Poaceae) Çeşitlerinde Alfa Lipoik Asit Ön Muamelesinin Kuraklık Toleransı Üzerine Etkisi**  
Güven F. G., TERZİ R., SARUHAN GÜLER N., KADIOĞLU A.  
21. Ulusal Biyoloji Kongresi, İzmir, Turkey, 3 - 07 September 2012, pp.505-506
- XXVII. **Düşük Doz Hidrojen Peroksit Ön Muamelesinin Kuraklık Toleransı Üzerine Etkisi**  
SARUHAN GÜLER N., Pehlivan N.  
21. Ulusal Biyoloji Kongresi, İzmir, Turkey, 3 - 07 September 2012, pp.528-529
- XXVIII. **Impact of Drought Stress on Nitrate Reductase, Polyphenol Oxidase and Guaiacol Peroxidase**

**Activities in Ctenanthe setosa**

SARUHAN GÜLER N., TERZİ R., KADIOĞLU A.

International Conference on Plants & Environmental Pollution, Kayseri, Turkey, 6 - 07 July 2011, pp.114

- XXIX. **Impact of Drought Stress on Nitrate Reductase, Polyphenol Oxidase and Guaiacol Peroxidase Activities in Ctenanthe setosa**  
SARUHAN GÜLER N., TERZİ R., KADIOĞLU A.  
International Conference on Plants & Environmental Pollution, Kayseri, Turkey, 6 - 07 July 2011, pp.114
- XXX. **Kuraklığa Hassas ve Dayanıklı Mısır Çeşitlerinde Salisilik Asit Ön Muamelesinin Kuraklık Toleransı Üzerine Etkisi**  
SARUHAN GÜLER N., SAĞLAM A., Acet T., KADIOĞLU A.  
20. Ulusal Biyoloji Kongresi, Denizli, Turkey, 21 - 25 June 2010, pp.340
- XXXI. **Kuraklık Stresi Altındaki Glycine max L. (Fabaceae) Türünün Anatomik Yapısındaki Değişimler**  
SARUHAN GÜLER N., Makbul S., Durmuş N., Güven S., Pehlivan N.  
20. Ulusal Biyoloji Kongresi, Denizli, Turkey, 21 - 25 June 2010, pp.340-341
- XXXII. **Kuraklık Koşullarında Yapraklarda Erken ve Geç Kıvrılma Cevaplarının Kontrolü**  
KADIOĞLU A., TERZİ R., SARUHAN GÜLER N., SAĞLAM A., Kutlu N., Demiralay M.  
20. Ulusal Biyoloji Kongresi, Denizli, Turkey, 21 - 25 June 2010, pp.80
- XXXIII. **Regulation of Early or late Leaf Rolling responses to Drought Stress in Plants**  
KADIOĞLU A., SAĞLAM A., Demiralay M., SARUHAN GÜLER N., TERZİ R.  
Plant Abiotic Stress - from signaling to crop improvement, Valensiya, Spain, 26 - 27 May 2010, pp.39
- XXXIV. **Regulation of Early or Late Leaf Rolling to Drought Stress in Plants**  
KADIOĞLU A., SAĞLAM A., DEMİRALAY M., SARUHAN GÜLER N., TERZİ R.  
COST FA0605, INPAS 3rd meeting (International Network of Plant Abiotic Stress) Universitat Valencia, Valencia, Spain, 26 - 27 May 2010, pp.10
- XXXV. **Impact of Drought Stress on Nitrate Reductase, Polyphenol Oxidase and Guaiacol Peroxidase Activities in Ctenanthe setosa**  
TERZİ R., SARUHAN GÜLER N., KADIOĞLU A.  
International Conference on Plants & Environmental Pollution, Kayseri, Turkey, 6 - 11 July 2009, pp.40
- XXXVI. **Role of Salicylic Acid As A Signal Molecule in Retarding Leaf Rolling in Plants under Drought Stress**  
KADIOĞLU A., Acet T., SAĞLAM A., SARUHAN GÜLER N., TERZİ R.  
Conference Plant Abiotic Stress-from Signaling to Development 2nd Meeting of the INPAS, Tartu, Estonia, 14 - 17 May 2009, pp.72
- XXXVII. **Role of salicylic acid as a signal molecule in retarding leaf rolling in plants under drought stress**  
Acet T., SAĞLAM A., SARUHAN GÜLER N., TERZİ R., KADIOĞLU A.  
Plant Abiotic Stress - from signaling to development, Tartu, Estonia, 14 - 17 May 2009, pp.56
- XXXVIII. **Ctenanthe setosa'da Kuraklık Stresi Sırasında Apoplastik ve Simplastik Alanlardaki Bazı Çözünebilir Organik Madde ve İyon Birikiminin Yaprak Kıvrılmasındaki Rolü**  
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XXII. Ulusal Kimya Kongresi, Magosa, Cyprus (Kkct), 6 - 10 October 2008, pp.35
- XXXIX. **Ctenanthe setosa da kuraklık stresi sırasında apoplastik ve simplastik alanlardaki bazı çözünebilir organik madde ve iyon birikiminin yaprak kıvrılmasındaki rolü**  
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19. Ulusal Biyoloji Kongresi, Trabzon, Turkey, 23 - 27 June 2008, pp.149
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VII. Ulusal Ekoloji ve Çevre Kongresi, Malatya, Turkey, 10 - 13 September 2007, pp.67
- XLVII. **Drought Induced Changes of ROS Scavenging Enzymes in Apoplastic and Symplastic Compartments of Rolling Leaves**  
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- XLVIII. **Trends in Leaf Rolling Research of Plants under Drought Stress**  
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- XLIX. **Kuraklığa Dayanıklı Bir Bitki: Ctenanthe setosa (Rosc.) Eichler**  
KADIOĞLU A., TERZİ R., SARUHAN GÜLER N., SAĞLAM A.  
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- L. **Giberellik Asitin Paraquatın Teşvik Ettiği Oksidatif Stres Üzerine Etkisi**  
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- LI. **Tuz Stresine Maruz Kalan İnula L. Bitkisinde Bazı Antioksidan Enzim Aktivitelerindeki Değişiklikler**  
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19. Ulusal Kimya Kongresi, İzmir, Turkey, 30 September - 04 October 2005, pp.24
- LII. **Tuz Stresine Maruz Kalan İnula Bitkisinde Antioksidan Enzim Aktivitelerindeki Değişiklikler**  
SARUHAN GÜLER N., KADIOĞLU A.  
XIX. Ulusal Kimya Kongresi, Aydın, Turkey, 30 September - 04 October 2005, pp.24
- LIII. **Doğu Karadeniz Bölgesinde Yayılış Gösteren Bazı Onosma (Boraginaceae) Türlerindeki Fenolik Madde ve Şeker İçeriklerinin Araştırılması**  
SARUHAN GÜLER N., KADIOĞLU A., türkmen z., beyazoğlu o.  
XVII. Ulusal Biyoloji Kongresi, Adana, Turkey, 21 - 24 June 2004, pp.70
- LIV. **Ctenanthe setosa Bitkisine Dıştan Uygulanan Poliaminlerin Yaprak Kıvrılmasına Etkisinin Biyokimyasal Seviyede Araştırılması**  
SARUHAN GÜLER N., TERZİ R., KADIOĞLU A.  
XVI. Ulusal Biyoloji Kongresi, Malatya, Turkey, 2 - 07 September 2002, pp.41

### **Supported Projects**

KADIOĞLU A., SAĞLAM A., SARUHAN GÜLER N., TERZİ R., Project Supported by Higher Education Institutions, Farklı

Sıcaklık Toleransına Sahip Heliotropium thermophilum ile Heliotropium hirsutissimum Bitkilerinin Sıcaklık Stresi Koşullarında Bazı Biyokimyasal Özelliklerinin Karşılaştırılması, 2016 - 2017  
SARUHAN GÜLER N., TUBITAK Project, Yaprak Kıvrılma Cevabı ile Dehidrinler Arasındaki İlişkinin Araştırılması, 2014 - 2017

### **Activities in Scientific Journals**

Trends in Horticulture , Committee Member, 2018 - Continues  
Turkish Journal of Botany, Committee Member, 2016 - Continues  
TURKISH JOURNAL OF BIOLOGY, Editor, 2015 - Continues  
TURKISH JOURNAL OF BOTANY, Editor, 2015 - Continues

### **Peer Reviews in Scientific Publications**

3Biotech, SCI Journal, November 2018  
Biologia Plantarum, SCI Journal, April 2018  
3 Biotech, SCI Journal, April 2018  
Turkish Journal of Biology, SCI Journal, November 2017  
Plant Growth Regulation, SCI Journal, May 2017  
Archives of Agronomy and Soil Science, SCI Journal, March 2017  
African Journal of Agricultura Research, Other Indexed Journal, June 2015  
Scientia Horticulturae, SCI Journal, April 2014  
Turkish Journal of Botany, SCI Journal, June 2012  
Turkish Journal of Botany, SCI Journal, December 2011  
Turkish Journal of Botany, SCI Journal, June 2011  
Turkish Journal of Agriculture and Forestry, SCI Journal, May 2011  
Turkish Journal of Botany, SCI Journal, April 2011  
Acta Physiologiae Plantarum, SCI Journal, January 2011  
Turkish Journal of Botany, SCI Journal, September 2010  
Acta Physiologiae Plantarum, SCI Journal, September 2010

### **Scientific Project Refereeing**

TUBITAK Project, September 2019  
TUBITAK Project, December 2017  
TUBITAK Project, November 2017  
TUBITAK Project, March 2017

### **Metrics**

Publication: 83  
Citation (WoS): 348  
Citation (Scopus): 404  
H-Index (WoS): 8  
H-Index (Scopus): 8

## **Congress and Symposium Activities**

- Spor Saęlık ve Beslenme Sempozyumu, Attendee, Trabzon, Turkey, 2018  
Fizyoterapide Güncel Yaklaşımlar Paneli, Attendee, Trabzon, Turkey, 2018  
Genetięi Deęiştirilmiş Bitkilerin Saęlık Üzerindeki Etkileri Eęitimi, Attendee, Turkey, 2016  
Meme Kanseri Farkındalık Günleri, Attendee, Trabzon, Turkey, 2016  
Plant Biology Europe EPSO/FESPB 2016 Congress, Attendee, Praha, Czech Republic, 2016  
EPPN European Plant Phenotyping Symposium, Attendee, Barcelona, Spain, 2015  
I. Ulusal Bitki Fizyolojisi Sempozyumu, Attendee, Erzurum, Turkey, 2015  
1. Ulusal Bitki Fizyolojisi Sempozyumu, Session Moderator, Erzurum, Turkey, 2015  
21. Ulusal Biyoloji Kongresi, Attendee, İzmir, Turkey, 2012  
XXII. Ulusal Kimya Kongresi, Attendee, Lefkoşa, Cyprus (Kktc), 2008  
19. Ulusal Biyoloji Kongresi, Attendee, Trabzon, Turkey, 2008  
18. Ulusal Biyoloji Kongresi, Attendee, Aydın, Turkey, 2006  
17. Ulusal Biyoloji Kongresi, Attendee, Adana, Turkey, 2004  
16. Ulusal Biyoloji Kongresi, Attendee, Malatya, Turkey, 2002

## **Non Academic Experience**

Rize Üniversitesi, Öğretim Üyesi