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International Researcher IDs

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Publons / Web Of Science ResearcherID: Y-8639-2019

ScopusID: 24480241200

Yoksis Researcher ID: 29224

Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Moleküler Biyoloji Ve Genetik, Turkey 2007 - 2011

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Moleküler Biyoloji Ve Genetik, Turkey 2004 - 2006

Undergraduate, Istanbul University, Faculty Of Science, Biyoloji, Turkey 2000 - 2004

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Introduction to RNA-seq and ChIP-seq data analysis, University of Cambridge, Bioinformatics training, 2017

Other, 2. Flow Sitometri ve Tarımsal Araştırmalarda Kullanımı Eğitim Programı, Namık Kemal Üniversitesi, Ziraat Fakültesi, Tarla Bitkileri Bölümü, 2014

Dissertations

Doctorate, Arpa doku kültürlerinde genetik ve epigenetik varyasyonlar, Istanbul University, Institute of Graduate Studies In Sciences, Moleküler Biyoloji Ve Genetik, 2011

Postgraduate, Yr10 buğday (*Triticum aestivum* L.) sarı pas (*Puccinia striiformis*) dayanıklılık geninin ekmeklik buğday çeşitlerinde taranması, Istanbul University, Institute of Graduate Studies In Sciences, Moleküler Biyoloji Ve Genetik, 2006

Research Areas

Life Sciences, Plant Biology, Plant Tissue Culture, Plant Physiology, Molecular Biology and Genetics, Plant Molecular Genetics, Cytogenetic, Natural Sciences

Academic Titles / Tasks

Associate Professor, Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü, 2017 - Continues
Research Assistant, Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü, 2009 - Continues

Courses

Moleküler Biyoloji ve Genetiğin Uygulamaları, Undergraduate, 2017 - 2018
Occupational English, Undergraduate, 2017 - 2018
Seminer, Postgraduate, 2017 - 2018
Hücre Biyolojisine Giriş, Undergraduate, 2017 - 2018
Mesleki İngilizce, Undergraduate, 2017 - 2018
Kromozom Biyolojisi, Undergraduate, 2017 - 2018
Genetik Kaynaklar ve Koruma, Undergraduate, 2017 - 2018

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Koç Üniversitesi, November, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effects of acetic acid treatment on growth and pigment contents in barley**
Temel A., Kösesakal T.
ACTA BOTANICA CROATICA, vol.83, no.2, 2024 (SCI-Expanded)
- II. **Biochemical and Proteomic Analyses in Drought-Tolerant Wheat Mutants Obtained by Gamma Irradiation**
Şen A., Gümüş T., Temel A., Öztürk İ., Çelik Ö.
PLANTS, vol.13, no.19, pp.2702, 2024 (SCI-Expanded)
- III. **Drought Stress-Related Physiological Changes and Histone Modifications in Barley Primary Leaves at HSP17 Gene**
Temel A., Janack B., Humbeck K.
AGRONOMY-BASEL, vol.7, no.2, 2017 (SCI-Expanded)
- IV. **Cytotoxic effects of metaphase-arresting methods in barley**
Temel A., Gozukirmizi N.
CYTOLOGY AND GENETICS, vol.49, no.6, pp.382-387, 2015 (SCI-Expanded)
- V. **Physiological and Molecular Changes in Barley and Wheat Under Salinity**
Temel A., Gozukirmizi N.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.175, no.6, pp.2950-2960, 2015 (SCI-Expanded)
- VI. **Genotoxicity of metaphase-arresting methods in barley**
Temel A., Gozukirmizi N.
TURKISH JOURNAL OF BIOLOGY, vol.39, no.1, pp.139-146, 2015 (SCI-Expanded)
- VII. **Salt Stress and Homobrassinosteroid Interactions during Germination in Barley Roots**
Marakli S., Temel A., Gozukirmizi N.
NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA, vol.42, no.2, pp.446-452, 2014 (SCI-Expanded)

- VIII. **Effects of epirubicin on barley seedlings**
Hamat-Mecbur H., Yilmaz S., Temel A., Sahin K., Gozukirmizi N.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.30, no.1, pp.52-59, 2014 (SCI-Expanded)
- IX. **ANALYSIS OF RETROTRANSPOSITION AND DNA METHYLATION IN BARLEY CALLUS CULTURE**
Temel A., Gozukirmizi N.
ACTA BIOLOGICA HUNGARICA, vol.64, no.1, pp.86-95, 2013 (SCI-Expanded)
- X. **Genetic and epigenetic effects of salinity on in vitro growth of barley**
Demirkiran A., Marakli S., Temel A., Gozukirmizi N.
GENETICS AND MOLECULAR BIOLOGY, vol.36, no.4, pp.566-570, 2013 (SCI-Expanded)
- XI. **Effects of homobrassinolide in barley callus culture**
Temel A., Gozukirmizi N.
PLANT SOIL AND ENVIRONMENT, vol.58, no.10, pp.441-445, 2012 (SCI-Expanded)
- XII. **DNA methylation variations between mono - and dizygotic twins**
Sahin K., Yilmaz S., Temel A., Gozukirmizi N.
ROMANIAN BIOTECHNOLOGICAL LETTERS, vol.16, no.4, pp.6460-6466, 2011 (SCI-Expanded)
- XIII. **Variations in BARE-1 insertion patterns in barley callus cultures**
Evrensel C., Yilmaz Ş., Temel A., Gozukirmizi N.
GENETICS AND MOLECULAR RESEARCH, vol.10, no.2, pp.980-987, 2011 (SCI-Expanded)
- XIV. **Effects of brassinosteroids on barley root growth, antioxidant system and cell division**
Kartal G., Temel A., Arican E., Gozukirmizi N.
PLANT GROWTH REGULATION, vol.58, no.3, pp.261-267, 2009 (SCI-Expanded)
- XV. **GENETIC AND EPIGENETIC VARIATIONS IN BARLEY CALLI CULTURES**
Temel A., Kartal G., Gozukirmizi N.
BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT, vol.22, no.4, pp.911-914, 2008 (SCI-Expanded)
- XVI. **Yr10 gene polymorphism in bread wheat varieties**
Temel A., Sentuerk-Akfiat F., Ertuğrul F., Yumurtacı A., AYDIN Y. A., Talas-Oğraş T., Gozuekirmizi N., Bolat N., Yorgancilar O., Belen S., et al.
AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.7, no.14, pp.2328-2332, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Comparison of Salinity-Induced Changes in Two Cultivars of Barley**
TEMEL A.
IUFS JOURNAL OF BIOLOGY, vol.73, no.2, pp.9-16, 2014 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **HISTONE ACETYLATION AND ITS MODULATION IN CANCER**
Temel A., Kefeli C.
in: Recent Insights into Molecular Biology and Genetics', Sevgi Maraklı, Merve Yilmazer, Editor, Gaziantep Üniversitesi Yayınları, Gaziantep, pp.41-84, 2023
- II. **Transposon activity in plant genomes**
GÖZÜKIRMIZI N., TEMEL A., Maraklı S., yilmaz s.
in: Plant Omics: Trends and Applications, Hakeem, KR, Tombuloglu, H, Tombuloglu, Editor, Springer, London/Berlin , Switzerland, pp.83-108, 2016
- III. **Retrotransposon-based molecular markers; Tools for variation analysis in plants**
GÖZÜKIRMIZI N., yilmaz s., MARAKLI S., TEMEL A.
in: Applications of Molecular Markers in Plant Genome analysis and Breeding, Taski-Ajdukovic K., Editor, Research Signpost, Kerala, pp.19-45, 2015

IV. **Epigenetic Regulation in Plants**

TEMEL A., Janack B., Humbeck K.

in: Encyclopedia of Life Sciences, Hawthorne J., Editor, John Wiley & Sons, West Sussex, UK , Chichester, pp.1-10, 2015

V. **Advances in Barley Biotechnology: Tissue Culture and Molecular Markers**

Temel A., GÖZÜKIRMIZI N.

in: Barley; Production, Cultivation and Uses., Elfson , Editor, Nova Science Publiser Inc., Ottoawa, pp.129-159, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Salinity-induced Physiological and Molecular Changes in Barley and Wheat**
Temel A., Gozukirmizi N.
4th International Conference on Agriculture and Horticulture (AGRI), Amsterdam, Netherlands, 15 - 17 February 2015, vol.29, pp.33
- II. **Effects of homobrassinolide on callus growth in barley**
Temel A., GÖZÜKIRMIZI N.
IVCHB, Belgium, 1 - 04 July 2012, pp.36
- III. **Retrotransposition Events in Barley Callus Cultures**
Temel A., Gozukirmizi N.
7th International Symposium on In Vitro Culture and Horticultural Breeding, Ghent, Belgium, 18 - 22 September 2011, vol.961, pp.175-179
- IV. **Effect of Homobrassinolide on callus growth in barley**
TEMEL A., Gözükırmızı N.
7th International Symposium on In Vitro Culture and Horticultural Breeding, Biotechnological advances in In Vitro Horticultural Breeding, Belgium, 1 - 04 September 2011, pp.12-142
- V. **Effects of epirubicine on barley mature embryo germination and retrotransposons**
Gozukirmizi N., Hamat H., Yilmaz S., Temel A.
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22
- VI. **DNA methylation analyses of monozygotic twins**
Sahin K., Yilmaz S., Temel A., Gozukirmizi N.
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22
- VII. **Detection of transgene integration in barley using FISH**
Temel A., Watanabe K., Schubert I.
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22
- VIII. **DNA methylation variations between mono and dizygotic twins**
Şahin K., Yılmaz S., TEMEL A., Gözükırmızı N.
9th National Medical Genetics Congress, İstanbul, Turkey, 1 - 04 December 2010, pp.46-47
- IX. **Variations in BARE-1 insertion patterns in barley callus cultures**
GÖZÜKIRMIZI N., Evrensel C., Yılmaz S., Temel A.
FESPB, Spain, 1 - 04 October 2010, pp.89
- X. **Genetic and epigenetic variations in barley calli cultures**
GÖZÜKIRMIZI N., Evrensel C., Kartal G., Temel A.
Vth Balkan Botanical Congress,, Serbia And Montenegro, 1 - 04 September 2009, pp.107
- XI. **Effects of Brassinosteroids on barley root growth, antioxidant system and cell division**
Kartal G., TEMEL A., Gözükırmızı N.
XVI. FESPB Congress, Finland, 1 - 04 August 2008, pp.24
- XII. **Brassinosteroidlerin arpa kök büyümesi ve hücre bölünmesi üzerine etkileri**
Kartal G., TEMEL A., Gözükırmızı N.
19. Biyoloji Kongresi,, Trabzon, Turkey, 1 - 04 June 2008, pp.476
- XIII. **Arpa kallus kültürlerinde genetik ve epigenetik varyasyonlar**

TEMEL A., Kartal G., Gözükırmızı N.

19. Biyoloji Kongresi,, Trabzon, Turkey, 1 - 04 June 2008, pp.142

XIV. Kışlık ekmeklik buğday (*Triticum aestivum* L.) çeşitlerinde Yr10 sarı pas dayanıklılık geninin taranması

TEMEL A., Şentürk-Akfırat F., Ertuğrul F., Yumurtacı A., Aydın Y., Talas-Oğraş T., Gözükırmızı N., Bolat N., Yorgancılar Ö., Belen S., et al.

VII. Tarla Bitkileri Kongresi,, Erzurum, Turkey, 1 - 04 June 2008, pp.375-378

XV. Kışlık ekmeklik buğday (*Triticum aestivum* L.) çeşitlerinde Yr10 sarı pas dayanıklılık geninin taranması

TEMEL A.

VII. Tarla Bitkileri Kongresi,, Erzurum, Turkey, 1 - 04 June 2007, pp.375-378

XVI. Screening of Yr10 wheat (*Triticum aestivum*L.) yellow rust (*Puccinia striiformis*) resistance gene in bread wheat cultivars.

GÖZÜKIRMIZI N., Temel A., Şentürk-Akfırat F., Ertuğrul F., Yumurtacı A., Aydın Y., Talas-Oğraş T., Bolat N., Yorgancılar Ö., Belen S., et al.

7 th International Symposium in the Series RECENT ADVANCES IN PLANT BIOTECHNOLOGY, Slovakia, 1 - 04 June 2007, pp.15

Supported Projects

TEMEL A., MARAKLI S., YILMAZ S., Project Supported by Higher Education Institutions, Transposon activity in plant genomes, 2017 - 2017

TEMEL A., HUMBECK K., Project Supported by Higher Education Institutions, Arpa bitkisinde kuraklık etkisiyle oluşan histon modifikasyonlarının incelenmesi, 2015 - 2017

ARDA E. Ş. N., UÇARLI C., ARICAN E., ALBAYRAK G., GÜREL A. F., ARI Ş., ÇAKIR Ö., TEMEL A., PEKMEZ M., TARHAN Ç., et al., Project Supported by Higher Education Institutions, MOLEKÜLER BİYOTEKNOLOJİ LABORATUVARININ KURULMASI, 2013 - 2016

TEMEL A., Project Supported by Higher Education Institutions, Amiprofos methyl'in arpada tuzluluğa etkileri, 2015 - 2015

TEMEL A., Project Supported by Higher Education Institutions, Arpa ve buğdayda tuzluluğun gen anlatımına etkileri, 2015 - 2015

TEMEL A., Project Supported by Higher Education Institutions, Arpa ve Buğday'da tuzluluk etkisiyle meydana gelen fizyolojik ve moleküler değişiklikler, 2014 - 2015

TEMEL A., Project Supported by Higher Education Institutions, Kolşisin ve Amiprofos methyl'in arpa gelişimine etkileri, 2012 - 2015

TEMEL A., Project Supported by Higher Education Institutions, Tuzluluk Stresinin Etkilerinin Tahıl Türlerinde Araştırılması, 2013 - 2014

TEMEL A., Project Supported by Higher Education Institutions, Mitotik ket vurucuların genotoksik etkileri, 2013 - 2014

TEMEL A., Project Supported by Higher Education Institutions, Homobrassinolid'in arpa kallus kültürlerine etkileri, 2012 - 2013

TEMEL A., Project Supported by Higher Education Institutions, EFFECT OF HOMOBRASSINOLIDE ON CALLUS GROWTH IN BARLEY, 2011 - 2011

Activities in Scientific Journals

Turkish Journal of Biology, Editor, 2013 - 2013

Scientific Refereeing

PLANT GROWTH REGULATION, SCI Journal, July 2024
Journal of Trace Elements and Minerals, Other journals, February 2024
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, November 2023
JOURNAL OF RESEARCH IN PHARMACY, Journal Indexed in SCI-E, October 2023
JOURNAL OF APPLIED GENETICS, SCI Journal, October 2023
Project Supported by Higher Education Institutions, BAP Research Project, Istanbul University, Turkey, June 2023
CURRENT ISSUES IN MOLECULAR BIOLOGY, SCI Journal, November 2022
PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS, SCI Journal, September 2022
PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS, SCI Journal, December 2021
GENES, Journal Indexed in SCI-E, December 2021
Horticulturae, Journal Indexed in SCI-E, August 2021
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, National Scientific Refreed Journal, June 2021
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, National Scientific Refreed Journal, April 2021
MOLECULES, National Scientific Refreed Journal, January 2021
GENOMICS, SCI Journal, January 2021
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, National Scientific Refreed Journal, December 2020
ACTA AGRICULTURAE SCANDINAVICA SECTION B-SOIL AND PLANT SCIENCE, Journal Indexed in SCI-E, August 2020
PLANT GROWTH REGULATION, SCI Journal, January 2020
SN Applied Sciences, SNAS-D-19-07528, Other Indexed Journal, December 2019
International Journal of Molecular Sciences, ijms-623756 , SCI Journal, November 2019
Ecotoxicology and Environmental Safety, EES-19-3456, SCI Journal, September 2019
Genes, genes-589935, SCI Journal, September 2019
International Journal of Molecular Sciences, ijms-544688 , SCI Journal, July 2019
Ecotoxicology and Environmental Safety, EES-19-1700, SCI Journal, May 2019
International Journal of Molecular Sciences, ijms-502423, SCI Journal, May 2019
International Journal of Molecular Sciences, ijms-484048, SCI Journal, April 2019
International Journal of Molecular Sciences, ijms-439920, SCI Journal, January 2019
Biochemical Genetics, BIGI-D-18-00295, SCI Journal, November 2018
International Journal of Molecular Sciences, ijms-351983, SCI Journal, August 2018
International Journal of Molecular Sciences, ijms-341577 , SCI Journal, August 2018
International Journal of Molecular Sciences, ijms-338782, SCI Journal, July 2018
International Journal of Molecular Sciences, ijms-320562, SCI Journal, June 2018
International Journal of Molecular Sciences, ijms-300794, SCI Journal, May 2018
Ecotoxicology and Environmental Safety, EES-18-637, SCI Journal, April 2018
Genes, genes-244958, SCI Journal, November 2017
Genes, genes-224782, SCI Journal, September 2017
Genes, genes-210986 , SCI Journal, July 2017
Plant Growth regulation, GROW-D-17-00115, SCI Journal, May 2017
Plant Growth Regulation, GROW-D-16-00647, SCI Journal, April 2017
Archives of Agronomy and Soil Science, GAGS-2016-0835, SCI Journal, October 2016
Caryologia, TCAR-2016-0017, SCI Journal, September 2016
DNA and Cell Biology, DNA-2016-3505, SCI Journal, September 2016
Plant Growth Regulation, GROW-D-16-00099, SCI Journal, March 2016
Plant Growth Regulation, GROW-D-15-00663R1, SCI Journal, February 2016
Turkish Journal of Agriculture and Forestry, TAR-1506-56, SCI Journal, November 2015
Environmental and Experimental Botany, EEB-D-15-00564 , SCI Journal, September 2015
Plant Growth Regulation, GROW-D-15-00283, SCI Journal, August 2015
Plant Growth Regulation, GROW-D-14-00225, SCI Journal, July 2014
Plant Growth Regulation, GROW-D-14-00013, SCI Journal, January 2014
Biochemical Genetics, BIGI-D-13-00030, SCI Journal, May 2013

Turkish Journal of Biology, BIY-1303-20, SCI Journal, April 2013
African Journal of Pharmacy and Pharmacology, AJPP-09-295, SCI Journal, July 2012
African Journal of Pharmacy and Pharmacology, AJPP-12-587, SCI Journal, June 2012
Journal of Ecology and the Natural Environment, JENE-11-138, Other Indexed Journal, January 2012
African Journal of Biotechnology, AJB-11-1019, SCI Journal, June 2011
African Journal of Biotechnology, AJB-11-1218, SCI Journal, June 2011
African Journal of Biotechnology, AJB-11-1112, SCI Journal, June 2011
International Journal of Biodiversity and Conservation, IJBC-11-082, Other Indexed Journal, May 2011
International Research Journal of Agricultural Science, IRJAS-11-055 , Other Indexed Journal, May 2011
African Journal of Biotechnology, AJB-10-2689, SCI Journal, March 2011
Scientific Research and Essays, SRE-10-1121, SCI Journal, February 2011
African Journal of Biotechnology, AJB-10-1908, SCI Journal, November 2010

Metrics

Publication: 38
Citation (WoS): 181
Citation (Scopus): 209
H-Index (WoS): 8
H-Index (Scopus): 9

Congress and Symposium Activities

40th New Phytologist Symposium: Plant epigenetics: from mechanisms to ecological relevance, Attendee, Wien, Austria, 2017
COST WG1/EPPN2020 Workshop: Current and future applications of phenotyping for plant breeding, Attendee, Novi Sad, Serbia And Montenegro, 2017
Agriculture and Climate Change - Adapting Crops to Increased Uncertainty (AGRI 2015), Attendee, Amsterdam, Netherlands, 2015
European Biotechnology Congress 2011, Attendee, İstanbul, Turkey, 2011
7th International Symposium on In Vitro Culture and Horticultural Breeding, Biotechnological advances in In Vitro Horticultural Breeding, Attendee, Ghent, Belgium, 2011
9th National Medical Genetics Congress, Attendee, İstanbul, Turkey, 2010
XVI. FESPB Congress, Attendee, Valencia, Spain, 2010
V. Balkan Botanical Congress, Attendee, Belgrade, Serbia And Montenegro, 2009
XVI. FESPB Congress, Tampere, Finland, Attendee, Tampere, Finland, 2008
19. Biyoloji Kongresi, Attendee, Trabzon, Turkey, 2008
Recent Advances in Plant Biotechnology-Plant Biotechnology: Impact on high quality plant production, Attendee, Stara Lesna, Slovakia, 2007

Scholarships

Doktora Araştırma Bursu, YOK, 2009 - 2010

Awards

UÇARLI C., TEMEL A., 2015 Başarılı Araştırmacı Ödülü, İstanbul Üniversitesi, June 2016
TEMEL A., Uluslararası Bilimsel Yayınları Teşvik Programı (UBYT), TÜBİTAK ULAKBİM, March 2015

TEMEL A., 2013 Başarılı Araştırmacı Ödülü, İSTANBUL ÜNİVERSİTESİ, May 2014

TEMEL A., Uluslararası Bilimsel Yayınları Teşvik Programı (UBYT), TÜBİTAK ULAKBİM, September 2013

TEMEL A., 2012 Başarılı Araştırmacı Ödülü, İSTANBUL ÜNİVERSİTESİ, April 2013

TEMEL A., 2011 Başarılı Araştırmacı Ödülü, İSTANBUL ÜNİVERSİTESİ, May 2012

TEMEL A., 2009 Başarılı Araştırmacı Ödülü, İSTANBUL ÜNİVERSİTESİ, May 2010

TEMEL A., Uluslararası Bilimsel Yayınları Teşvik Programı (UBYT), TÜBİTAK ULAKBİM, June 2009

TEMEL A., 2008 Başarılı Araştırmacı Ödülü, İSTANBUL ÜNİVERSİTESİ, May 2009

Non Academic Experience

University of Connecticut, Molecular and Cell Biology Department

University, MLU Halle-Wittenberg, Naturwissenschaftliche Fakultät I Institut für Biologie

Martin-Luther-University of Halle-Wittenberg

Other, IpK; Leibniz-Institute Of Plant Genetics And Crop Plant Research, Karyotype Evolution

Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)

Other Public Institution, Tübitak, Mam, Gmbe