

## Assoc. Prof. Aslıhan TEMEL

### Personal Information

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**Address:** İstanbul Üniversitesi Fen Fakültesi Moleküler Biyoloji ve Genetik Bölümü, 34134, Vezneciler/İstanbul

### International Researcher IDs

ScholarID: FTxH\_10AAAAJ

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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

GÖZÜKIRMIZI N., 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