

## Asst. Prof. Yunus Emre Arvas

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABE-0298-2022

ScopusID: 57193950328

Yoksis Researcher ID: 390883

### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2018 - 2022

Postgraduate, Ondokuz Mayıs University, Institute Of Science, Turkey 2016 - 2017

Postgraduate, Ondokuz Mayıs University, Institute Of Science, Turkey 2015 - 2016

Undergraduate, Ondokuz Mayıs University, Faculty Of Education, Department Of Mathematics And Science Teaching, Turkey 2009 - 2013

### Dissertations

Doctorate, Mutant ve mutant olmayan çeltik bitkilerinde tuz stresinin morfolojik, fizyolojik, biyokimyasal ve moleküler etkileri, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2022

Postgraduate, Türkiye'deki yabancı çeltik ve işlenmiş çeltik ürünlerinde genetiği değiştirilmiş organizmalarla ilgili genetik analizler, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, 2017

### Research Areas

Molecular Biochemistry, Plant Biotechnology, Molecular Biology and Genetics, Plant Molecular Genetics, Microbial Genetics

### Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Moleküler Biyoloji ve Genetik Bölümü, 2023 - Continues

### Courses

Genetics, Associate Degree, 2023 - 2024

Special Topics in Molecular Biology, Undergraduate, 2023 - 2024  
Genetic Engineering, Undergraduate, 2023 - 2024  
Biotechnology, Undergraduate, 2023 - 2024  
Molecular Mechanisms of Epigenetics, Undergraduate, 2023 - 2024  
Epigenetics, Doctorate, 2023 - 2024  
Öğretmenlik Uygulaması, Undergraduate, 2023 - 2024  
Practical Errors in Molecular Technics, Doctorate, 2023 - 2024  
Undergraduate Thesis II, Undergraduate, 2023 - 2024  
Genetic Diversity and Genome Engineering, Doctorate, 2023 - 2024  
Undergraduate Thesis I, Undergraduate, 2023 - 2024  
Genetic Structure and Functions, Doctorate, 2023 - 2024

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

- I. **A 2,2-dichloropropionic acid-degrading novel Pseudomonas fluorescence strain fatsa001: isolation, identification, and characterization**  
Binboga Meral U, Edbeib M. F., Faruk Kirkinci S., Aksoy H. M., Akman A., Abdul Wahab R., Huyop F., Kurmanbekova G., Arvas Y. E., Kaya Y.  
Bioremediation Journal, 2024 (SCI-Expanded)
- II. **ANALYSES of P-Tst-1, P-Tst-3 and P-Tst-6 RETROTRANSPOSONS IN CONVENTIONALLY AND ORGANICALLY PRODUCED TOMATOES**  
Haji E., Abed M., Arvas Y. E., MARAKLI S., Kaya Y.  
Journal of Animal and Plant Sciences, vol.33, no.5, pp.1043-1050, 2023 (SCI-Expanded)
- III. **The power of retrotransposons in high-throughput genotyping and sequencing.**  
Arvas Y. E., Marakli S., Kaya Y., Kalendar R.  
Frontiers in plant science, vol.14, pp.1174339, 2023 (SCI-Expanded)
- IV. **Antioxidant and molecular response of mutant and native rice (Oryza sativa L.) varieties grown under salt stress**  
Arvas Y. E., KOCAÇALIŞKAN İ., ERİŞEN S., ORDU E.  
Biologia, vol.78, no.4, pp.1199-1210, 2023 (SCI-Expanded)
- V. **Investigation the effect of drought stress on tolerant and resistant rice (Oryza sativa L.) varieties in terms of morphologic and genetic characters**  
Arvas Y. E., Yolci M. S., MARAKLI S.  
GENETIC RESOURCES AND CROP EVOLUTION, vol.70, no.2, pp.427-436, 2023 (SCI-Expanded)
- VI. **Effect of Rhizobacteria and Microalgae Treatments on Some Physiological and Biochemical Parameters of Fenugreek (Trigonella foenum-graecum L.) Grown under Drought Stress.**  
Yolci M. S., Tunçtürk R., Tunçtürk M., Ceylan Ş., Arvas Y. E.  
LEGUME RESEARCH, vol.1, no.675, pp.1-7, 2022 (SCI-Expanded)
- VII. **Comparative retrotransposon analysis of mutant and non-mutant rice varieties grown at different salt concentrations**  
Arvas Y. E., KOCAÇALIŞKAN İ., ORDU E., ERİŞEN S.  
Biotechnology and Biotechnological Equipment, vol.36, no.1, pp.25-33, 2022 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Biotechnological Studies in Potato Plants**  
Arvas Y. E., Aksoy H. M., Kaya Y.  
International Journal of Life Sciences and Biotechnology, vol.1, no.1, pp.37-47, 2023 (Peer-Reviewed Journal)
- II. **Biosafety Risks of Genetically Modified Plants**

Arvas Y. E., Kocaçalışkan İ.

Türk Doęa ve Fen Dergisi, vol.9, no.2, pp.201-210, 2020 (Peer-Reviewed Journal)

III. **Potential Impact of Genetically Modified Plants on Biodiversity**

Arvas Y. E., Kaya Y.

Yüzüncü Yıl Üniversitesi Ziraat Fakültesi Tarım Bilimleri Dergisi, vol.29, no.1, pp.168-177, 2019 (Peer-Reviewed Journal)

IV. **Effects of Different BAP and IAA Concentrations on Micropropagation of Tagetes minuta Plant**

Kaya Y., Arvas Y. E., Latifian E.

International Society of Academicians, vol.1, no.2, pp.96-104, 2018 (Peer-Reviewed Journal)

V. **Tomato Plant and Its in vitro Micropropagation)**

Kaya Y., Remi F. A., Arvas Y. E., Durmuş M.

Journal of Engineering Technology and Applied Sciences, vol.3, no.1, pp.57-73, 2018 (Peer-Reviewed Journal)

VI. **Upland Rice**

Kaya Y., Kuyumcu G., Karakütük S., Arvas Y. E.

Yüzüncü Yıl Üniversitesi Ziraat Fakültesi Tarım Bilimleri Dergisi, vol.27, no.1, pp.151-156, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Recent Advances in Molecular Biology and Biochemistry**

Arvas Y. E. (Editor)

Biyomit Publisher, İstanbul, 2023

II. **Assesing the Impact of Silver Nanoparticles on Mobile Genetic Elements in Rice (Oryza sativa L.)**

Özpirinçci C., Arvas Y. E., Maraklı S., Erişen S.

in: Recent Insight into Molecular Biology, Genetics and Biotechnology, Dr. Merve YILMAZER ve Dr. Sevgi Maraklı, Editor, Gaziantep Üniversitesi Yayınları, Gaziantep, pp.134-157, 2023

III. **Biofertilizers in Agricultural Production**

Arvas Y. E., Durak M. Z.

in: Tarımda Son Trendleri Tasarlama, Tahir Polat, Mustafa Okant, Editor, İksad Yayınevi, Ankara, pp.123-140, 2022

IV. **Genetically Modified Crops and Diagnosis**

Arvas Y. E.

LAP Lambert Academic Publishing, Beau Bassin-Rose Hill, 2017

## Refereed Congress / Symposium Publications in Proceedings

I. **Role of biotechnology in a sustainable environment**

KAYA Y., ARVAS Y. E.

ISOGOC IV: International Seminar on Government and Civilization IV, İstanbul, Turkey, 21 - 22 October 2023, pp.1

II. **Bioethical arguments relevant to the use of genetically modified organisms**

ARVAS Y. E., KAYA Y.

5. Uluslararası Türk Dünyası Fen Bilimleri ve Mühendislik Kongresi, Bishkek, Kyrgyzstan, 15 - 17 September 2023, pp.114

III. **Degradation of Dalapon herbicide by Rahnella aquatilis omu001 isolated from Root Nodules of Faba Bean (Vicia faba L.).**

Remi F. A., ARVAS Y. E., AKSOY H. M., KAYA Y.

4th International conference on biosciences & Medical engineering (ICBME 2022), Malaysia, 21 June 2022

IV. **A review of the Role of biofertilizers in Sustainable Agriculture.**

ARVAS Y. E., DURAK M. Z.

II International Biological Congress., 18 May 2022

- V. **The use of Fenugreek (*Trigonella foenum-graecum* L.) from past to present and its Therapeutic Effects**  
KAYA Y., ARVAS Y. E., YOLCU M. S.  
I International Biological Congress., 18 May 2022
- VI. **Effects of plant growth regulators on dietary fiber content.**  
ARVAS Y. E., TÖRNÜK F., DURAK M. Z.  
II International Biological Congress., 18 May 2022
- VII. **Evaluation of the effects of silver nanoparticles on retrotransposon movements in rice (*Oryza sativa* L.). II International Biological Congress.**  
Özpirinçci C., ARVAS Y. E., MARAKLI S., ERİŞEN S.  
II International Biological Congress., Kyrgyzstan, 18 May 2022
- VIII. **Production and Sustainability of Medicinal and Aromatic Plants**  
Yolcu M. S., Arvas Y. E.  
2. Uluslararası Siirt Bilimsel Araştırmalar Kongresi, Siirt, Turkey, 21 March 2022
- IX. **Phototherapy and Some Plants Used in Phototherapy**  
Yolcu M. S., Arvas Y. E.  
2. Uluslararası Siirt Bilimsel Araştırmalar Kongresi, Siirt, Turkey, 21 March 2022
- X. **The Potential Role of Transposable Elements as Molecular Markers**  
Arvas Y. E., Abed M., Zaki Q., KOCAÇALIŞKAN İ., Haji E.  
International Collaborative Conference of Modern Agricultural Technologies 2020, ICCMAT 2021, Erbil, Kurdistan, Iraq, 24 - 25 March 2021, vol.761
- XI. **Sambucus ebulus L.: Past, present and future**  
Kaya Y., Haji E. K., Arvas Y. E., Aksoy H. M.  
2nd International Conference on Biosciences and Medical Engineering 2019: Towards Innovative Research and Cross-Disciplinary Collaborations, ICBME 2019, Bali, Indonesia, 11 - 12 April 2019, vol.2155
- XII. **Detection of Genetically Modified Organisms in Rice Products By DNA-Based Techniques in Turkish Market.**  
ARVAS Y. E., KAYA Y.  
Uluslararası Tarım Bilimleri Kongresi, Turkey, 09 May 2018
- XIII. **Concept of Genetically Modified Products and Halal Perspective**  
Kaya Y., Yüksek A., Arvas Y. E.  
Uluslararası 4. Helal ve Sağlıklı Gıda Kongresi (IHHFC 2017), Ankara, Turkey, 03 November 2017
- XIV. **Impact of Genetically Modified Plants on Biodiversity**  
Arvas Y. E., Durmuş M., Kaya Y.  
I. Uluslararası Organik Tarım ve Biyoçeşitlilik Sempozyumu., Bayburt, Turkey, 27 September 2017
- XV. **Genetically Modified Plants and Global Warming in Agricultural Production**  
Kaya Y., Seçgin Z., Arvas Y. E.  
Bursa Tarım Kongresi, Bursa, Turkey, 13 - 15 October 2016, pp.212-217

## Supported Projects

Arvas Y. E., BELDÜZ A. O., Project Supported by Higher Education Institutions, Melatonin Uygulamasının Çeltik (*Oryza sativa* L.) Fide Köklerinde Gümüş Nanopartikül Maruziyetine Karşı Etkilerinin Genetik Düzeyde İncelenmesi, 2024 - Continues

Arvas Y. E., BELDÜZ A. O., GÜLER H. İ., KAYA Y., Project Supported by Higher Education Institutions, Çeltik (*Oryza sativa* L.) Fide Köklerinde Gümüş Nanopartikül Maruziyetinin Retrotranspozon Hareketi ve Kökle İlişkili Genlerin İfadesine Etkisinin Araştırılması, 2023 - Continues

Arvas Y. E., TUBITAK Project, Rekombinant YxaL ile HrpN(Ea)I Proteininin Altındane Ekmeklik Buğdayının Büyümesi Üzerine Etkilerinin Araştırılması, 2023 - 2025

Arvas Y. E., Project Supported by Higher Education Institutions, Farklı bitki büyüme hormonu uygulamaları ile üretilen

yüksek verimde diyet lifi içeren çeltik ve çemen filizlerinin probiyotik meyve bazlı içeceklerin üretiminde prebiyotik kaynağı olarak kullanımı, 2022 - 2024

Arvas Y. E., Project Supported by Higher Education Institutions, Nocardia ignorata GTS18'in DyP Yüklü Enkapsülin Sisteminin Karakterizasyonu, 2022 - 2023

Arvas Y. E., Eyiç A., Çelikoğlu U., Aksoy H. M., Demir E., Maraklı S., Kaya Y., Maraklı S., Project Supported by Other Official Institutions, Herbisitlere karşı mikrobiyal kökenli biyolojik gübre üretimi, 2021 - 2022

Arvas Y. E., Project Supported by Higher Education Institutions, Mutant ve Mutant Olmayan Çeltik (Oryza sativa L) Bitkilerinin Tuz Stresindeki Tolerans Durumlarının Tespiti, 2020 - 2022

## Activities in Scientific Journals

Frontiers in Life Sciences and Related Technologies (Online), Publication Committee Member, 2022 - Continues  
International Journal of Life Sciences and Biotechnology, Committee Member, 2018 - Continues

## Scientific Refereeing

Kahramanmaraş Sütçü İmam Üniversitesi Tarım ve Doğa Dergisi, Journal Indexed in ESCI, April 2024

Tropical Life Sciences Research, Journal Indexed in ESCI, April 2024

Manas Journal of Agriculture Veterinary and Life Sciences, Other Indexed Journal, May 2023

TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, Journal Indexed in SCI-E, May 2023

Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), Other Indexed Journal, October 2022

Frontiers in Life Sciences and Related Technologies (Online), Other Indexed Journal, June 2022

Manas Journal of Agriculture Veterinary and Life Sciences, Other Indexed Journal, April 2022

GENETIC RESOURCES AND CROP EVOLUTION AN INTERNATIONAL JOURNAL, SCI Journal, April 2022

Sigma Journal Of Engineering And Natural Sciences, Journal Indexed in ESCI, November 2021

Sigma Journal Of Engineering And Natural Sciences, Journal Indexed in ESCI, October 2021

Sigma Journal Of Engineering And Natural Sciences, Journal Indexed in ESCI, August 2021

Frontiers in Life Sciences and Related Technologies (Online), Other Indexed Journal, January 2021

## Tasks In Event Organizations

Arvas Y. E., II. Uluslararası Biyoloji Kongresi, Scientific Congress, Bishkek, Kyrgyzstan, Mayıs 2022

## Scientific Research / Working Group Memberships

Cost Action Ca22142, Beneficial Root-Associated Microorganisms For Sustainable Agriculture (Root-Benefit), French National Institute for Agriculture, Food, and Environment , France, <https://www.root-benefit.eu/>, 2024 - Continues

Cost Action Ca19125, Epigenetic Mechanisms Of Crop Adaptation To Climate Change (Epi-Catch), Università Degli Studi di Firenze, Italy, <https://www.epicatch.eu/>, 2024 - Continues

## Metrics

Publication: 32

Citation (Scopus): 10

H-Index (Scopus): 2

## Scholarships

Arařtırma Burs ve Destekleri M¼d¼rl¼ę¼, 2218-Yurt İçi Doktora Sonrası Arařtırma Burs Programı, TUBITAK, 2023 - Continues

Yurt İçi Doktora Sonrası Arařtırma Burs Programı, University, 2022 - Continues

Etkinlik Destekleri ve Eęitim Bursları M¼d¼rl¼ę¼, 2211-A Genel Yurt İçi Doktora Burs Programı, TUBITAK, 2020 - 2022  
1005 - Yeni Fikirler ve Ürünler, BİDEB Burslusu, TUBITAK, 2020 - 2021