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Biography

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Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, NCBI Discovery Workshops, National Center for Biotechnology Information, U.S. National Library of Medicine, Rockville Pike, Bethesda MD, USA, 2013
Occupational Health and Safety, İş Güvenliği Sertifikası, Orta Doğu Teknik Üniversitesi Biyolojik Bilimler Bölümü, 2011
Other, Bal Arısı Islahı ve Yapay Tohumlama Kursu, Orta Doğu Teknik Üniversitesi, 2010
Education Management and Planning, Tübitak Kaçkar Dağları-Hatila Vadisi Milli Parklarında Doğa Eğitimi, Tübitak, 2008

Dissertations

Doctorate, Türkiye'deki arı ırklarında patojen ve ilgili mikroorganizmaların yaygınlığı ve Nosema ceranae enfeksiyonuna karşı gösterdikleri farklı tepkiler., Middle East Technical University, Fen Bilimleri Ensitütüsü, Biyoloji, 2015
Postgraduate, Türkiye kızılçam (Pinus brutia TEN.) ve halep çamı (Pinus halepensis MILL.) türlerinde ITS-2 bölgesinin karşılaştırmalı dizi analizi, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyoloji, 2007

Research Areas

Agricultural Sciences, Agriculture, Life Sciences, Biotechnology, Molecular Biology and Genetics, Animal Molecular Genetics, Population Biology, Population Genetics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yil University, Ziraat Fakültesi, Tarımsal Biyoteknoloji Bölümü, 2017 - Continues
Research Assistant PhD, Van Yüzüncü Yil University, Fen Fakültesi, Biyoloji, 2016 - Continues
Research Assistant PhD, Middle East Technical University, Fen Bilimleri Ensitüsü, Biyoloji, 2015 - Continues
Research Assistant, Middle East Technical University, Fen Bilimleri Ensitüsü, Biyoloji, 2004 - Continues
Researcher, U.S. Department of Agriculture- Agricultural Research Service-Bee Research Laboratory, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Colony-Level Effects of Amygdalin on Honeybees and Their Microbes**
Tauber J. P., Tozkar C. Ö., Schwarz R. S., Lopez D., Irwin R. E., Adler L. S., Evans J. D.
INSECTS, vol.11, no.11, 2020 (SCI-Expanded)

II. **GENETIC STRUCTURE OF HONEY BEE (APIS MELLIFERA LINNAEUS, 1758) SUBSPECIES BASED ON tRNA(leu)-COX2 AND ND5 REGIONS OF mtDNA**
Tozkar C. Ö.
APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH, vol.18, no.2, pp.2269-2284, 2020 (SCI-Expanded)

III. **Nectar and Pollen Phytochemicals Stimulate Honey Bee (Hymenoptera: Apidae) Immunity to Viral Infection**
PALMER-YOUNG E. C., Tozkar C. Ö., SCHWARZ R. S., CHEN Y., IRWIN R. E., ADLER L. S., EVANS J. D.
Journal of Economic Entomology, vol.110, no.5, pp.1959-1972, 2017 (SCI-Expanded)

IV. **Differential diagnosis of the honey bee trypanosomatids Crithidia mellificae and Lotmaria passim**
RAVOET J., SCHWARZ R. S., DESCAMPS T., YAÑEZ O., Tozkar C. Ö., MARTIN-HERNANDEZ R., BARTOLOMÉ C., DE SMET L., HIGES M., WENSELEERS T., et al.
Journal of Invertebrate Pathology, vol.130, pp.21-27, 2015 (SCI-Expanded)

V. **Metatranscriptomic analyses of honey bee colonies**
Tozkar C. Ö., Kence M., Kence A., HUANG Q., EVANS J. D.
FRONTIERS IN GENETICS, vol.6, 2015 (SCI-Expanded)

VI. **Evaluation of cage designs and feeding regimes for honey bee (Hymenoptera: Apidae) laboratory experiments**
HUANG S. K., CSAKI T., DOUBLET V., DUSSAUBAT C., EVANS J. D., GAJDA A. M., GREGORC A., HAMILTON M. C., KAMLER M., LECOCQ A., et al.
Journal of Economic Entomology, vol.107, no.1, pp.54-62, 2014 (SCI-Expanded)

VII. **The phylogenetic relationship between populations of marginally and sympatrically located Pinus halepensis Mill. and Pinus brutia Ten. in Turkey, based on the ITS-2 region Türkiye'de marjinal ve örtüşük olarak yayılış gösteren doğal Pinus halepensis Mill ve Pinus brutia Ten. popülasyonlarının ITS-2 bölgesine göre filogenetik ilişkileri**
Tozkar C. Ö., ÖNDE S., KAYA Z.
Turkish Journal of Agriculture and Forestry, vol.33, no.4, pp.363-373, 2009 (SCI-Expanded)

Articles Published in Other Journals

I. **Vairimorpha (Nosema) Parazitinin Antimikrobiyal Peptidler Aracılığıyla Bal Arılarının Hümoral Bağışıklığına Etkileri**
Tozkar C. Ö.
Hayvan Bilimi ve Ürünleri Dergisi, vol.6, no.1, pp.72-88, 2023 (Peer-Reviewed Journal)

II. **A Current Perspective on Silkworm Breeding: The Case of Diyarbakır Silvan**
Tozkar C. Ö., Tayuzak A., Erkan C.
TURKISH JOURNAL OF AGRICULTURAL AND NATURAL SCIENCE, vol.10, no.2, pp.355-363, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Sensitivity and survival of honey bees: From the perspective of exposure to pesticides**
Tozkar C. Ö., Çavuş E. D.
7th International Aegean Conferences on Natural and Medical Sciences, İzmir, Turkey, 26 - 27 April 2023, pp.47-52

II. **Bal arılarının yaşamlarını etkileyen biyotik ve abiyotik stresler**
Tozkar C. Ö., Akçakaya S.
CUKUROVA 10th INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE , Adana, Turkey, 2 - 04 April 2023, pp.1193-1202

III. **Expression Analysis of Eater and Vitellogenin genes against Nosema ceranae infection across honey bee races**
Tozkar C. Ö.
Ecological Immunity Workshop 2022-Resistance, tolerance & symbionts, Berlin, Germany, 7 - 11 September 2022, pp.35

IV. **Bee Bread as an Alternative Health-Oriented Product**
Tozkar C. Ö.
5th International Conference on Engineering & Natural Sciences, Van, Turkey, 20 - 22 December 2019, pp.238-239

V. **Chemical Composition and Therapeutic Properties of Bee Propolis**
Tozkar C. Ö.
5th International Conference on Engineering & Natural Sciences, Van, Turkey, 20 - 22 December 2019, pp.240-241

VI. **The role of antimicrobial peptides in honey bee immune defense mechanism.**
Tozkar C. Ö.
6th International Mugla Beekeeping and Pine Honey Congress, Muğla, Turkey, 15 - 18 October 2018, pp.511-512

VII. **Metatranscriptomic analyses of honey bee colonies.**
Tozkar C. Ö., Kence M., Huang Q., Evans J. D.
4th Ecology and Evolutionary Biology Symposium, İstanbul, Turkey, 11 - 13 July 2017, pp.27-28

VIII. **Identification of Some Viruses and Nosema spp. Among Honey Bee Samples from Different Regions of Turkey**
Tozkar C. Ö., Kence A., Kence M., Evans J. D.
XXXXIII. International Apicultural Congress, Kyyiv, Ukraine, 29 September - 04 October 2013, pp.351

IX. **Identification of some viruses and pathogens among Apis mellifera honey bee samples from different regions of Turkey**
Tozkar C. Ö., Kence A., Kence M.
2nd International Conference on Pollinator Biology, Health and Policy , Pennsylvania, United States Of America, 14 - 17 August 2013, pp.158-159

X. **Imidacloprid ve Nosema apis' in farklı ırklara ait bal arılarının lokomotor aktiviteleri üzerine etkisi**
Tozkar C. Ö., Kayim M., Arslan O. C., Kence A., Kence M.
3.Muğla Arıcılık ve Çam Balı Kongresi, Muğla, Turkey, 1 - 04 November 2012, pp.253

XI. **Effect of Imidacloprid on the Locomotor Activity of Honeybees**
Kayim M., Tozkar C. Ö., Arslan O. C., Kence M., Kence A.
5th European Conference of Apidology, Halle, Germany, 3 - 07 September 2012, pp.210

XII. **Monitoring the longevity and activity levels of four Apis mellifera subspecies infected with Nosema apis**
Tozkar C. Ö., Kence A., Kence M.
5th European Conference of Apidology, Halle, Germany, 3 - 07 September 2012, pp.215-216

XIII. **Effect of Imidacloprid and Nosema ceranae on the locomotor activity of honey bees**
Arslan O. C., Kayim M., Tozkar C. Ö., Kence M., Kence A.
8th COLOSS Conference, Halle, Germany, 1 - 03 September 2012, pp.16

XIV. **Identification of Nosema spp among honey bees from Different Regions of Turkey.**
Tozkar C. Ö., Kence M., Evans J. D., Kence A.
WG2 Workshop: Nosema, from knowledge to experimental set up, İstanbul, Turkey, 3 - 04 March 2012, pp.25

XV. **Distributions of Nosema ceranea and other pathogens in honey bees of Turkey.**
Tozkar C. Ö., Kence M., Evans J. D., Kence A.
WG2 Workshop: Nosema, from knowledge to experimental set up, İstanbul, Turkey, 3 - 04 March 2012, pp.24

XVI. **Health of honey bees in Turkey: 2009-2010 COLOSS Survey**
Kence M., Arslan O. C., Kayim M., Doke M. A., Tozkar C. Ö., Kence A.
Workshop: Coloss questionnaire, from question formulation to data analysis. , Avignon, France, 21 - 22 February 2011, pp.8

XVII. **Humoral Immunity Responses of Honey Bee Subspecies to Nosema ceranae Infection**
Tozkar C. Ö., Evans J. D.
29th Scientific - Expert Conference of Agriculture and Food Industry, İzmir, Turkey, 26 - 28 September 2018, pp.62-67

XVIII. **The phylogenetic relationship between Pinus halepensis Mill. and Pinus brutia Ten. Populations in Turkey, based on the ITS-2 region.**
Tozkar C. Ö., Önde S., Kaya Z.
Uluslararası Katılımlı 20. Ulusal Biyoloji Kongresi, Denizli, Turkey, 21 - 25 June 2010, pp.366

XIX. **The survey combining the COLOSS questionnaire and the questionnaire prepared for colony losses in Turkey**
Kence A., Arslan O. C., Kayim M., Tozkar C. Ö.
COLOSS Work Shop WG1, Standarts on monitoring & positive feed-back loops between scientists and beekeepers , Soro, Denmark, 16 - 18 June 2010, pp.7

XX. **Comparative sequence analysis of the internal transcribed spacer-2 of Pinus brutia and Pinus halepensis populations from Turkey**
Tozkar C. Ö., Kaya Z., Kandemir G.
IUFRO Division-2 Joint Conference: Low Input Breeding and Conservation of Forest Genetic Resources, Antalya, Turkey, 9 - 13 October 2006, pp.216

Supported Projects

Tozkar C. Ö., Erkan C., Project Supported by Higher Education Institutions, Gevaş bölgesinde gezici ve sabit bal arısı kolonilerinden toplanan propolisin kimyasal kompozisyonunun belirlenmesi ve arı ırklarının geometrik morfometrik analizi, 2022 - 2024
Adler L., Irwin R., Evans J. D., Tozkar C. Ö., Project Supported by Public Organizations in Other Countries, The role of floral secondary compounds in bee performance and disease transmission in a natural ecosystem, 2013 - 2015
Tozkar C. Ö., Kence A., Project Supported by Higher Education Institutions, Nosema ceranae ve Nosema apis in moleküler teşhisi ve Türkiye'de farklı çoğrafi bölgelere ait arı ırklarında deneysel enfeksiyonu. , 2011 - 2015
Moran N., Evans J. D., Tozkar C. Ö., Schwartz R., Project Supported by Public Organizations in Other Countries, Genomics, functional roles, and diversity of the symbiotic gut microbiota of honey bees and bumble bees, 2011 - 2015
Kence A., Kence M., Yücel B., Doğaroğlu M., Tozkar C. Ö., TÜBİTAK - AB COST Project, Effects of Turkish honey bee genetic diversity on colony vitality. , 2009 - 2014
Tozkar C. Ö., Kence A., Project Supported by Higher Education Institutions, Bal arılarının virüs ve patojenlerinin belirlenmesi ve bal arılarının bunlardan bir kısmına tepkilerinin ölçülmesi., 2012 - 2013
Kaya Z., Tozkar C. Ö., Project Supported by Higher Education Institutions, Ribosomal DNA ITS bölge sekans karşılaştırılması yapılarak kızılçam ve halep çamı türlerinin filogenetik analizi. , 2006 - 2008

Scientific Refereeing

TURKISH JOURNAL OF ZOOLOGY, SCI Journal, July 2023
npj biodiversity, Other Indexed Journal, June 2023
Turkish Journal of Entomology, SCI Journal, April 2023

Turkish Journal of Entomology, SCI Journal, February 2023
Turkish Journal of Entomology, SCI Journal, February 2023
advances in biosicience and bioengineering , Other Indexed Journal, September 2019

Tasks In Event Organizations

Kence M., Tozkar C. Ö., Yücel B., Tunca R. İ., 4th European Conference of Apidology (EURBEE), Scientific Congress, Ankara, Turkey, Eylül 2010

Metrics

Publication: 29
Citation (WoS): 61
Citation (Scopus): 68
H-Index (WoS): 4
H-Index (Scopus): 4