Res. Asst. PhD MAHMUT METE KARACA

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Education Information

Doctorate, Cukurova University, Ziraat Fakültesi, Bitki Koruma, Turkey 2017 - 2023
Postgraduate, Cukurova University, Ziraat Fakültesi/ Fen Bilimleri Enstitüsü, Bitki Koruma / Entomoloji, Turkey 2014 - 2017
Undergraduate, Cukurova University, Ziraat Fakültesi, Bitki Koruma, Turkey 2008 - 2013

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, The Effects of Antibiotic Treatments on the Endosymbionts and Fitness of Bemisia tabaci (Gennadius) (Hemiptera: Aleyrodidae) and Encarsia lutea (Masi) (Hymenoptera: Aphelinidae), Cukurova University, Ziraat Fakültesi, Bitki Koruma, 2023
Postgraduate, Seasonal Dynamics of Bemisia tabaci (Genn.) (Hemiptera: Aleyrodidae) Species Complex in Cotton Growıng Areas of Adana, Turkey, Cukurova University, Ziraat Fakültesi, Bitki Koruma, 2017

Research Areas

Agricultural Sciences, Agriculture, Plant Protection, Entomology, Insect Systematics, Insect Control, Acarology

Academic Titles / Tasks

Research Assistant, Cukurova University, Ziraat Fakültesi, Bitki Koruma, 2015 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Insect oviposition in herbaceous plants attracts egg parasitoids despite fungal phytopathogen infection**
Karaca M. M., Alınç T., Cusumano A., Mirabile G., Torta L., Guarino S., Peri E., Colazza S.

BIOLOGICAL CONTROL, vol.188, pp.105-384, 2024 (SCI-Expanded)

II. **Effect of constant and fluctuating low temperature on the survival of Tuta absoluta pupae**
Joseph Z. A., Karaca M. M., Karut K.
BULLETIN OF ENTOMOLOGICAL RESEARCH CONTAINING ORIGINAL AND REVIEW ARTICLES ON ECONOMIC ENTOMOLOGY, vol.1, pp.1-7, 2023 (SCI-Expanded)

III. **Two promising larval parasitoids, Bracon (Habrobracon) didemie and Dolichogenidea appellator (Hymenoptera: Braconidae) for biological control of Tuta absoluta (Meyrick) (Lepidoptera: Gelechiidae)**
Karut K., Karaca M. M., Döker İ., Kazak C.
EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL, vol.33, pp.1-7, 2023 (SCI-Expanded)

IV. **Reproductive performance and functional response of Eretmocerus mundus Mercet (Hymenoptera: Aphelinidae) obtained from cold-stored red-eyed pupae**
Keser B., KARACA M. M., KARUT K.
EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL, vol.32, no.1, 2022 (SCI-Expanded)

V. **Population variation of Bemisia tabaci MED and MEAM1 species in an agricultural landscape: the case of Cukurova plain**
Karaca M. M., Karut K.
ARTHROPOD-PLANT INTERACTIONS, vol.16, no.1, pp.53-62, 2022 (SCI-Expanded)

VI. **Effect of cold storage on performance of Eretmocerus mundus, larval parasitoid of Bemisia tabaci in a conventional tomato growing greenhouse**
KAZAK C., DÖKER İ., KARACA M. M., KARUT K.
CROP PROTECTION, vol.137, 2020 (SCI-Expanded)

VII. **Monitoring insecticide resistance and endosymbiont composition in greenhouse populations of Bemisia tabaci (Gennadius) (Hemiptera: Aleyrodidae) from Mersin, Turkey**
Mohammed M. A., KARACA M. M., DÖKER İ., KARUT K.
PHYTOPARASITICA, vol.48, no.4, pp.659-672, 2020 (SCI-Expanded)

VIII. **Dominance of Bemisia tabaci MEAM1 species over MED (Hemiptera: Aleyrodidae) in greenhouse vegetables in Mersin, Turkey**
Topcu I., Karaca M. M., Karut K.
PHYTOPARASITICA, vol.48, no.2, pp.159-166, 2020 (SCI-Expanded)

IX. **Secondary endosymbiont diversity of Bemisia tabaci and its parasitoids**
KARUT K., CASTLE S. J., KARUT S. T., KARACA M. M.
INFECTION GENETICS AND EVOLUTION, vol.78, 2020 (SCI-Expanded)

X. **Internal Transcribed Spacer (ITS) sequences of some Kampimodromus (Acari: Phytoseiidae) species: Is Kampimodromus ragusai a valid species or a synonym of Kampimodromus aberrans?**
DÖKER İ., KARUT K., KARACA M. M., Cargnus E., KAZAK C.
SYSTEMATIC AND APPLIED ACAROLOGY, vol.23, no.11, pp.2237-2243, 2018 (SCI-Expanded)

XI. **Analysis of Species, Subgroups, and Endosymbionts of Bemisia tabaci (Hemiptera: Aleyrodidae) From Southwestern Cotton Fields in Turkey**
KARUT K., KARACA M. M., DÖKER İ., KAZAK C.
ENVIRONMENTAL ENTOMOLOGY, vol.46, no.4, pp.1035-1040, 2017 (SCI-Expanded)

XII. **Two new records of the genus Kampimodromus Nesbitt (Acari: Phytoseiidae) for Turkey with a revised key to the World species**
DÖKER İ., KAZAK C., KARACA M. M., KARUT K.
ACAROLOGIA, vol.57, no.2, pp.355-363, 2017 (SCI-Expanded)

Articles Published in Other Journals

I. **Re-discovery and identification of Iphiseius degenerans (Acari: Phytoseiidae) in Turkey, based on morphological and molecular data**

DÖKER İ., KAZAK C., KARACA M. M., KARUT K.
Turkish Journal of Biological Control, vol.9, no.2, pp.110-123, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Comparative biological features of the predatory mite Amblyseius swirskii on Bemisia tabaci MED (Q2), MEAM1 and Typha latifolia pollen**
Karaca M. M., Kazak C., Karut K., Döker İ.
Working Group "Integrated Control of Plant-Feeding Mites", Belgrade, Serbia, 4 - 07 September 2023, pp.66-68

II. **Effects of tetracycline treatments on biological parameters and endosymbionts of Bemisia tabaci MEAM1**
Karaca M. M., Karut K.
2nd International Molecular Plant Protection Congress, Bursa, Turkey, 15 - 18 May 2023, pp.163

III. **Effects of Wolbachia infection status on parasitism performance of Encarsia lutea on the silverleaf whitefly Bemisia tabaci MEAM1**
Karaca M. M., Karut K.
2nd International Molecular Plant Protection Congress , Bursa, Turkey, 15 - 18 May 2023, pp.29

IV. **Çukurova Bölgesi'nden toplanan Bemisia tabaci ve parazitoidlerinin sekonder endosimbiyontları**
TİRENG KARUT Ş., KARACA M. M., KARUT K.
Uluslararası Katılımlı Türkiye VII. Bitki Koruma Kongresi, Muğla, Turkey, 14 - 17 November 2018, pp.26

V. **Efficacy of stored Macrolophus melanotoma on biological control of Bemisia tabaci in greenhouse condition**
KARUT K., KAZAK C., DÖKER İ., KARACA M. M.
14th meeting of the IOBC-WPRS Working Group "Integrated Control in Protected Crops, Mediterranean Climate", Lisbon, Portugal, 4 - 07 September 2018, pp.1

VI. **Efficacy of stored Macrolophus melanotoma on biological control of Bemisia tabaci in greenhouse conditions**
KARUT K., KAZAK C., DÖKER İ., KARACA M. M.
Integrated Control in Protected Crops, Mediterranean Climate, Lizbon, Portugal, 4 - 07 September 2018, pp.36

VII. **Insecticide effect of olivemill wastewater against two greenhouse pests: Bemisia tabaci and Aphis gossypii under controlled conditions**
KAZAK C., KARUT K., DÖKER İ., KARACA M. M.
14th meeting of the IOBC-WPRS Working Group "Integrated Control in Protected Crops, Mediterranean Climate", Lisbon, Portugal, 4 - 07 September 2018, pp.1

VIII. **Internal transcribed spacer (ITS) sequences of some Kampimodromus (Acari: Phytoseiidae) populations: species status validation of Kampimodromus ragusai**
DÖKER İ., KARUT K., KARACA M. M., Cargnus E., KAZAK C.
XVth International Congress of Acarology, Antalya, Turkey, 2 - 08 September 2018, pp.254

IX. **SEASONAL DYNAMICS OF BEMISIA TABACI (GENN.) (HEMIPTERA: ALEYRODIDAE) SPECIES COMPLEX IN COTTON GROWING AREAS OF ADANA, TURKEY**
KARACA M. M., KARUT K.
VIII International Agriculture Symposium "AGROSYM 2017", Jahorine, Bosnia And Herzegovina, 5 - 08 October 2017, pp.588

X. **COLD-STORAGE POSSIBILITIES OF WHITEFLY PARASITOID ERETMOCERUS MUNDUS (HYMENOPTERA: APHELINIDAE) PUPAE**
KARUT K., KAZAK C., KARACA M. M., DÖKER İ.
VIII International Scientific Agriculture Symposium ?AGROSYM 2017?, Jahorina, Bosnia And Herzegovina, 4 - 08 October 2017, pp.586

XI. **ITS sequences of the predatory mites; Iphiseius degenerans (Berlese) and Phytoseius ibrahimi Döker & Kazak (Acari: Phytoseiidae).**

DÖKER İ., KAZAK C., KARACA M. M., KARUT K.
6th Meeting of the IOBC Working Group Integrated Control of Plant Feeding Mites, Chania, Greece, 4 - 07 September 2017, pp.18

XII. **Farklı Pamuk Alanlarından Toplanan Bemisia tabaci (Gennadius) (Hemiptera:Aleyrodidae) Populasyonlarının Biyotip Yapısı ve İkincil Endosimbiyontlarının Belirlenmesi**
KARUT K., DÖKER İ., Karaca M., KAZAK C.
Uluslararası Katılımlı Türkiye VI. Bitki Koruma Kongresi, Konya, Turkey, 5 - 08 September 2016, pp.208

XIII. **Rifampicin Uygulamalarının Bemisia tabaci (Gennadius) (Hemiptera: Aleyrodidae) (B biyotip) Populasyonuna Etkilerinin Belirlenmesi**
Tireng Karut Ş., Topçu İ., Karaca M. M., KARUT K.
Türkiye VI. Bitki Koruma Kongresi, Konya, Turkey, 5 - 08 September 2016, pp.192

XIV. **Avcı Akar Amblyseius swirskii?nin İkincil Endosimbiyontlar ile Bulaşık Bemisia tabaci (B Biyotip) ve Typha latifolia Poleni Üzerinde Bazı Biyolojik Özellikleri**
KARACA M. M., DÖKER İ., KARUT K., KAZAK C.
Uluslararası Katılımlı Türkiye VI. Bitki Koruma Kongresi, Konya, Turkey, 5 - 08 September 2016, pp.266

XV. **Determination of Biotype Status and Secondary Endosymbionts of Bemisia tabaci Gennadius Hemiptera Aleyrodidae Samples Collected from Different Cotton Growing Locations**
KARUT K., DÖKER İ., KARACA M. M., KAZAK C.
Uluslararası Katılımlı Türkiye VI. Bitki Koruma Kongresi , Konya, Turkey, 5 - 08 September 2016

XVI. **Determination Effect of Rifampicin Treatment to Bemisia tabaci Gennadius Hemiptera Aleyrodidae B biotype Population**
Tireng Karut Ş., Topçu İ., KARACA M. M., KARUT K.
Uluslararası katılımlı Türkiye VI. Bitki Koruma Kongresi, 5 - 08 September 2016

XVII. **Some biological characteristics of the predatory mite Amblyseius swirskii on Bemisia tabaci B Biotype infected with secondary endosymbionts and Typha latifolia pollen**
KARACA M. M., DÖKER İ., KARUT K., KAZAK C.
Uluslararası Katılımlı Türkiye VI. Bitki Koruma Kongresi, Konya, Turkey, 5 - 08 September 2016

Supported Projects

KARUT K., TİRENG KARUT Ş., KARACA M. M., KAZAK C., DÖKER İ., Project Supported by Higher Education Institutions, Yerel bir Bacillus thuringiensis izolatının karakterizasyonu ve Tuta absolutaya karşı entomopatojen olarak etkin kullanım olanakları, 2023 - Continues

KARUT K., DÖKER İ., KARACA M. M., KAZAK C., Project Supported by Higher Education Institutions, Sera beyazsineği Trialeurodes vaporariorum Westwood Hem Aleyrodidae popülasyonlarının genetik yapısı ve endosimbiyontlarının belirlenmesi, 2021 - 2024

KARUT K., KARACA M. M., Project Supported by Higher Education Institutions, Antibiyotik Uygulamalarının Bemisia tabaci Hem Aleyrodidae ve Encarsia lutea Hym Aphelinidae Popülasyonlarına Etkilerinin Laboratuvar Koşullarında Belirlenmesi, 2019 - 2024

DÖKER İ., KAZAK C., KARUT K., KARACA M. M., Project Supported by Higher Education Institutions, Bazı fungusit ve insektisitlerin avcı akar Amblyseius swirskii (Acari: Phytoseiidae)'nin farklı biyolojik dönemlerine etkilerinin belirlenmesi, 2022 - 2023

KAZAK C., DÖKER İ., KARACA M. M., KARUT K., Project Supported by Higher Education Institutions, Avcı Akar Phytoseiulus persimilis Athias-Henriot'in Farklı Yaşlardaki Dişilerinin Değişik Sıcaklıklarda İşlevsel ve Sayısal Tepkileri, 2021 - 2023

KAZAK C., KARACA M. M., KARUT K., DÖKER İ., Project Supported by Higher Education Institutions, Avcı Akar Amblyseius swirskii Athias-Henriot (Acari: Phytoseiidae)'nin İki Farklı Popülasyonunun Bemisia tabaci (Genn.) (Hemiptera: Aleyrodidae) B ve Q Biyotipleri Üzerinde Biyolojik Özellikleri, 2017 - 2020

KARUT K., KARACA M. M., DÖKER İ., Topçu İ., Project Supported by Higher Education Institutions, Antibiyotik(Rifampicin)uygulamalarının Bemisia tabaci Q2 populasyonunun endosimbiyontları ile bazı biyolojik

özelliklerine etkilerinin belirlenmesi, 2017 - 2018
KARUT K., KAZAK C., DÖKER İ., KARACA M. M., Project Supported by Higher Education Institutions, COLDSTORAGE POSSIBILITIES OF WHITEFLY PARASITOID ERETMOCERUS MUNDUS HYMENOPTERA APHELINIDAE PUPAE, 2017 - 2017

Metrics

Publication: 30
Citation (WoS): 22
Citation (Scopus): 37
H-Index (WoS): 3
H-Index (Scopus): 4

Congress and Symposium Activities

Working Group “Integrated Control of Plant-Feeding Mites", Attendee, Belgrade, Serbia, 2023
2nd International Molecular Plant Protection Congress, Attendee, Bursa, Turkey, 2023
ULUSLARARASI KATILIMLI TÜRKİYE VII. BİTKİ KORUMA KONGRESİ, Attendee, Muğla, Turkey, 2018
14th meeting of the IOBC/WPRS Working Group "Integrated control in protected crops, Mediterranean climate", Attendee, Lisbon, Portugal, 2018
VIII International Agriculture Symposium "AGROSYM 2017", Attendee, --Seçiniz--, Bosnia And Herzegovina, 2017
Uluslararası Katılımlı Türkiye VI. Bitki Koruma Kongresi, Attendee, Konya, Turkey, 2016

Awards

Karaca M. M., Student Poster Presentation Second Rank, 2Nd International Molecular Plant Protection Congress, May 2023
Karaca M. M., Student Oral Presentation Second Rank, 2Nd International Molecular Plant Protection Congress, May 2023
KARACA M. M., Best Oral Presentation Award, VIII International Agriculture Symposium 'AGROSYM 2017'., October 2017