

# Res. Asst. PhD HİLAL ŞULE TOSUN

## Personal Information

**Office Phone:** [+90 242 310 6548](tel:+902423106548)

**Email:** [hilaltosun@akdeniz.edu.tr](mailto:hilaltosun@akdeniz.edu.tr)

**Web:** <https://avesis.akdeniz.edu.tr/hilaltosun>

### International Researcher IDs

ORCID: 0000-0001-8360-2610

Yoksis Researcher ID: 14222

## Education Information

2015 - 2021	Doctorate, Akdeniz University, Faculty of Agriculture, Department of Plant Protection, Turkey
2011 - 2014	Postgraduate, Suleyman Demirel University, Ziraat Fakültesi, Bitki Koruma Bölümü, Turkey

## Dissertations

2021	Morphological and molecular identification of Tetranychidae species found in the West Mediterranean Region and determination of genetic differences between the populations of <i>Tetranychus urticae</i> Koch 1836 and endosymbionts, Akdeniz University, Faculty Of Agriculture, Department Of Plant Protection, Doctorate
2014	The effects on life table parameters of the different mating times of <i>Tuta absoluta</i> (Meyrick) (Lepidoptera: Gelechiidae), Suleyman Demirel University, Ziraat Fakültesi, Bitki Koruma Bölümü, Postgraduate

## Research Areas

Agricultural Sciences, Agriculture, Plant Protection, Entomology, Acarology

## Academic Titles / Tasks

2015 - Continues	Research Assistant PhD, Akdeniz University, Faculty of Agriculture, Department of Plant Protection
------------------	--

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

- Field testing of a new-designed light trap for mass-trapping of May–June beetles (Coleoptera: Scarabaeidae) in horticultural areas**  
ERLER F., TOSUN H. Ş.  
Journal of Plant Diseases and Protection, vol.130, no.6, pp.1229-1237, 2023 (SCI-Expanded)
- Mass-trapping the codling moth, *Cydia pomonella* (L.) (Lepidoptera: Tortricidae), using newly designed light trap reduces fruit damage in apple orchards**  
ERLER F., TOSUN H. Ş.  
Journal of Plant Diseases and Protection, vol.130, no.4, pp.795-807, 2023 (SCI-Expanded)
- Mapping QTLs for Super-Earliness and Agro-Morphological Traits in RILs Population Derived from Interspecific Crosses between *Pisum sativum* × *P. fulvum***  
Sari H., Eker T., TOSUN H. Ş., MUTLU N., Celik I., TOKER C.

Current Issues in Molecular Biology, vol.45, no.1, pp.663-676, 2023 (SCI-Expanded)

- IV. **A kabuli chickpea ideotype**  
Eker T., SARI YOL D., SARI H., TOSUN H. Ş., TOKER C.  
SCIENTIFIC REPORTS, vol.12, no.1, 2022 (SCI-Expanded)
- V. **Efficacy of indigenous isolates of *Beauveria bassiana* (Balsamo) Vuillemin (Deuteromycota: Hyphomycetes) against the Colorado potato beetle, *Leptinotarsa decemlineata* (Say) (Coleoptera: Chrysomelidae)**  
Baki D., TOSUN H. Ş., ERLER F.  
EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL, vol.31, no.1, 2021 (SCI-Expanded)
- VI. **ISOLATION AND MORPHO-MOLECULAR IDENTIFICATION OF INDIGENOUS SOIL-BORNE ENTOMOPATHOGENIC FUNGI, AND THEIR PATHOGENICITY TO *GALLERIA MELLONELLA* L. (LEPIDOPTERA: PYRALIDAE) AS A MODEL INSECT**  
Baki D., ERLER F., TOSUN H. Ş., Imrek B.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.30, no.7, pp.8138-8148, 2021 (SCI-Expanded)
- VII. **Indigenous entomopathogenic fungi as potential biological control agents of rose sawfly, *Arge rosae* L. (Hymenoptera: Argidae)**  
Baki D., TOSUN H. Ş., ERLER F.  
TURKISH JOURNAL OF ZOOLOGY, vol.45, no.7, pp.517-525, 2021 (SCI-Expanded)
- VIII. **Genome-wide discovery of indel markers in sesame (*Sesamum indicum* L.) using ddradseq**  
Kizil S., Basak M., GÜDEN B., TOSUN H. Ş., UZUN B., YOL E.  
Plants, vol.9, no.10, pp.1-17, 2020 (SCI-Expanded)
- IX. **Screening of chickpea accessions for resistance against the pulse beetle, *Collosobruchus chinensis* L. (Coleoptera: Bruchidae)**  
EKER T., ERLER F., Adak A., IMREK B., GUVEN H., TOSUN H. Ş., Sari D., SARI H., UPADHYAYA H. D., TOKER C., et al.  
JOURNAL OF STORED PRODUCTS RESEARCH, vol.76, pp.51-57, 2018 (SCI-Expanded)
- X. **Plant oils as oviposition deterrents against winterform females of pear psylla, *Cacopsylla pyri* (L.) (Hemiptera: Psyllidae)**  
ERLER F., TOSUN H. Ş.  
PHYTOPARASITICA, vol.45, no.4, pp.509-515, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Indigenous Turkish entomopathogenic fungi as potential biological control agents of the Rose Aphid, *Macrosiphum rosae* L. (Hemiptera: Aphididae)**  
Baki D., Tosun H. Ş., Erler F.  
Türkiye Biyolojik Mücadele Dergisi, vol.14, no.1, pp.76-83, 2023 (Peer-Reviewed Journal)
- II. **Potential of entomopathogenic fungi as biological control agents of *Yponomeuta malinellus* Zeller, 1838 (Lepidoptera: Yponomeutidae)**  
Tosun H. Ş., Baki D., Erler F.  
Mediterranean Agricultural Sciences, vol.35, no.3, pp.121-128, 2022 (Peer-Reviewed Journal)
- III. **Comparative evaluation of indigenous entomopathogenic fungal isolates and three commercial entomopathogenic fungal products against the rice weevil, *Sitophilus oryzae* L. and the confused flour beetle, *Tribolium confusum* du Val.**  
Baki D., TOSUN H. Ş., ERLER F.  
Harran Üniversitesi Ziraat Fakültesi Dergisi, vol.25, no.1, pp.1-12, 2021 (Peer-Reviewed Journal)
- IV. **Bazı Bitki Uçucu Yağlarının Armut Psillidi [*Cacopsylla pyri* (L.) (Hemiptera: Psyllidae)]'nin Kışlık-Formuna Karşı Yumurta Bırakmayı Engelleyici ve Ovisidal Etkileri**  
İmrek B., Güven H., ERLER F., TOSUN H. Ş.  
HARRAN TARIM VE GIDA BİLİMLERİ DERGİSİ, vol.21, no.3, pp.259-265, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A comparative evaluation of indigenous entomopathogenic fungal isolates against Colorado potato beetle, *Leptinotarsa decemlineata* (Say) (Coleoptera: Chrysomelidae)**  
Tosun H. Ş., Baki D., Erler F.  
ENAG 2022 - International Congress on Engineering and Agriculture, Konya, Turkey, 26 - 30 September 2022, pp.55-60
- II. **Efficacy of indigenous entomopathogenic fungi against the black bean aphid, *Aphis fabae* Scopoli (Hemiptera:Aphididae)**  
Tosun H. Ş., Baki D., Erler F.  
ENAG 2022 - International Congress on Engineering and Agriculture, Konya, Turkey, 26 - 30 September 2022, pp.61-66
- III. **Evaluation of two entomopathogenic fungi and their combination with summer oil for the control of Tomato moth, *Tuta absoluta* (Meyrick)**  
ERLER F., Ateş A. Ö., TOSUN H. Ş., İKTEN C., İmrek B., Topuz E., Kırışık M.  
International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF-2018), İzmir, Turkey, 2 - 05 April 2018, vol.1, no.1, pp.119
- IV. **Efficacy of different coloured sticky traps in capturing Tomato moth, *Tuta absoluta* (Meyrick)**  
ERLER F., Biçen Ş., Önder Z., TOSUN H. Ş., İKTEN C., İmrek B., Topuz E., Kırışık M.  
International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF-2018), İzmir, Turkey, 2 - 05 April 2018, vol.1, no.1, pp.123
- V. **Evaluation of chickpea genotypes for resistance against the pulse beetle, *Callosobruchus chinensis* L. (Coleoptera: Bruchidae).**  
ERLER F., EKER T., İMREK B., GÜVEN H., TOKER C., TOSUN H. Ş., SARI D., SARI H., ADAK A.  
International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 - 24 September 2017, pp.326-327
- VI. **Plant essential oils as oviposition deterrents and ovicides against pear psylla, *Cacopsylla pyri* (L.) (Hemiptera: Psyllidae)**  
ERLER F., TOSUN H. Ş., İmrek B., Güven H.  
International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 - 24 September 2017, vol.1, no.1, pp.324-325
- VII. ***Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae)'nın Farklı Çiftleşme Sayılarının Yaşam Çizelgesi Parametreleri Üzerine Etkileri.**  
TOSUN H. Ş., YAŞAR B.  
Uluslararası Katılımlı Türkiye VI. Bitki Koruma Kongresi, Konya, Turkey, 5 - 08 September 2017, pp.316
- VIII. **FUMIGANT ACTIVITY OF SOME PLANT ESSENTIAL OILS AGAINST THE PULSE BEETLE, *CALLOSOBRUCHUS CHINENSIS* (L.) (COLEOPTERA: BRUCHIDAE)**  
ERLER F., TOSUN H. Ş., GÜVEN H., İMREK B.  
I. International Congress on Medicinal and Aromatic Plants 'Natural and Healthy Life', Konya, Turkey, 10 - 12 May 2017, vol.1, no.1, pp.88

## Supported Projects

2023 - 2024	Elmada Zararlı <i>Tetranychus urticae</i> Koch (Acari: Tetranychidae)'de Pyridaben Direncinin Biyokimyasal Ve Moleküler Mekanizması İle <i>Wolbachia</i> Endosimbiontu Arasındaki İlişki, TUBITAK Project
2023 - 2024	<i>Tetranychus urticae</i> Koch (Acari:Tetranychidae)'nin Tarla Popülasyonlarında Pyridaben Direnci İle <i>Wolbachia</i> , Spiroplasma Ve <i>Cardinium</i> Endosimbiont İlişkileri, TUBITAK Project
2022 - 2024	Isparta Örtü Altı Üretim Alanlarında Thysanoptera Türlerinin Morfolojik ve Moleküler Karakterizasyonu ve Endosimbiont Türlerin Varlığı ve Çeşitliliği, Project Supported by Higher Education Institutions
2016 - 2017	Yayın süreklilik, Project Supported by Higher Education Institutions

## Metrics

Publication: 23

Citation (WoS): 40

Citation (Scopus): 77

H-Index (WoS): 4

H-Index (Scopus): 5