



**TAGEM**  
R&D AND INNOVATION

WESTERN MEDITERRANEAN AGRICULTURAL  
RESEARCH INSTITUTE/ ANTALYA

## EMİNE TOPUZ, PhD

### Agricultural Engineer

#### EDUCATION

- **Assoc. prof**
- **PhD** 2000-2009 Ege University Faculty of Agriculture
- **MSc** 1996-1999 Akdeniz University Faculty of Agriculture
- **Bachelor's Degree** 1990-1994 Akdeniz University Faculty of Agriculture
- LANGUAGE** English 73,75 / ÜDS: 57

#### CAREER

- 2000- Agricultural Engineer, Batı Akdeniz Agricultural Research Institute- ANTALYA
- 1996-2000 Research assistant, Akdeniz University, ANTALYA

#### ABOUT ME

I was born in 1972 in Elmalı, Antalya. I graduated from Akdeniz University, Faculty of Agriculture in 1994. I worked as a research assistant at Akdeniz University in between 1996-2000. I received my master's degree from Plant Protection Department at Akdeniz University with the thesis titled as "Detection of pests and their natural enemies in vegetable greenhouses in Antalya and its surroundings" in 1999. I started to work as an Agricultural Engineer at Antalya West Mediterranean Agricultural Research Institute in 2000. I got my Ph.D from Plant Protection Department at Ege University in 2009 with my doctoral thesis titled as "Effects of some plant essential oils against Tetranychus cinnabarinus (Boisduval) (Acarina: Tetranychidae) and application possibilities of promising ones in greenhouse vegetable growing". I'm still working as a researcher at the Western Mediterranean Agricultural Research Institute (BATEM).

#### CONTACT

Demircikara Mahallesi Paşa Kavakları  
Cad. No:11 PK:35 Muratpaşa / Antalya  
07100 TÜRKİYE

 [emine.topuz@tarimorman.gov.tr](mailto:emine.topuz@tarimorman.gov.tr)

 0242 325 53 25/350



# EMİNE TOPUZ, PhD

## Agricultural Engineer



### PROJECTS

1. Investigation of the Effectiveness of Citrus Peel Extract and Oils against Western Flower Thrips (*Frankliniella occidentalis*) and Cotton Mealybug (*Phenacoccus solenopsis*) and Development of Plant Protection Products from Those Found Effective(2022-, TÜBİTAK-1001 (122O032)- **Project Leader**)
2. Cultivation of *Azadirachta indica* in Turkey, Production of Neem Oil and Neem Powder from Seeds of This Species and Determination of Biological Efficacy of Azadirachtin A Isomer Based Pesticide to be Produced (01/01/2022-01/05/2024 TAGEM-21/AR-GE /11, **Researcher**)
3. Adaptation of *Stevia* (*Stevia rebaudiana* Bertoni) to Different Regions of Our Country and Development of Synthetic Variety (2016-2020, TAGEM/TBAD/16/A04/P06/000 17- **Researcher**)
4. Determination of Resistance to Some Insecticides of Western Flower Thrips [*Frankliniella occidentalis* (Pergande) (Thysanoptera: Thripidae)], Which Is a Problem in Carnation Cultivation (01/01/2018-31/12/2020, TAGEM- **Researcher**).
5. Investigation of Diseases and Pests Causing Trouble in Globe Artichoke Cultivation in Antalya Province and Management Practices, (2016-2018, TAGEM, **Researcher**)
6. Testing Resistance to Tomato Yellow Leaf Curl Virus (TYLCV) with Real Time PCR, (2015-2017, Akdeniz Univ. Res. Fund (BAP), **Researcher**)
7. Investigations on Determination and Management of Diseases, Pests and Weeds of Leafy Vegetables in Western Mediterranean Region, (2016-2018, TAGEM, **Researcher**)
8. Developing a Pool of Novel and Eco-Efficient Application of Zeolite for Agriculture Sector, (April 2012-November 2012, (ECO-ZEO FP7-ENV-2011/ activity ENV.2011.3.1.9-1/Topic 1, **Researcher**)
9. Determination of Entomopathogen Fungi, which could be used against *Tetranychus cinnabarinus* Boisd. (Acarina: tetranychidae) and *Bemisia tabaci* Genn. (Hom. Aleyrodidae) in Greenhouse Vegetable Cultivations in Antalya, and Investigating pathogenicities of them (2011-2014, TAGEM, **Project Leader**)
10. Survey and Populations Monitoring of *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae) and its Natural Enemies, (2010-2013, TAGEM, **Researcher**)
11. Determination of Biological Criteria based on Control of *Tuta absoluta* and Biotechnological Control Possibilities (2011-2014, TAGEM, **Project Leader**)
12. Acquisition of Some Natural Plants in Antalya to Outdoor Ornamental Sector, (2005-2009,106G020 Nolu 1007-TÜBİTAK, **Researcher**)



**EMİNE TOPUZ, PhD**  
**Agricultural Engineer**



**PROJECTS**

13. DPT Project of Public Private Sector Partnership for F1 Hybrid Seed Production, Researcher (2004-2008, DPT-2004K 120170, **Researcher**)
14. DPT Project of Determination of Adult Parasitoid (Dip.: Tachinidae) and Parasitism Rate of *Eurygaster integriceps* Put. (Het.:Scutelleridae) in Winter Quarters and Cereal Areas, (2004-2006, DPT-TAGEM BS-04/01-05-166 (3), **Researcher**)
15. DPT Project of Studies on Production and Release of Egg Parasitoid *Trissolchus semistriatus* (Hym.:Scelionidae), (2004-2008, DPT-BS-04/01-05-166 (2), **Researcher**)
16. DPT Project of Improving Artificial Diets for Mass production of *Dolycoris Baccarum* L. (Het.: Pentatomidae ) under Laboratory conditions, (2004-2008, DPT- BS-04/01-05-166(9), **Project Leader**)
17. Effects of Some Plant Essential oils on *Tetranychus cinnabarinus* (Boisd.) (Acarina: Tetranychidae) and Application Possibilities of the Most Effective one in Greenhouse Farming, (2004-2009, TAGEM-Ege University, **Project Leader**)
18. Pests and Their Natural Enemies on Greenhouse Vegetables in Antalya, (1994-1998, Akdeniz Unv. BAP, **Researcher** (MSc).



# EMİNE TOPUZ, PhD

## Agricultural Engineer



### PUBLICATIONS

#### INTERNATIONAL ARTICLES AND PAPERS

1. Erler, F. Kırışık, M., and **Topuz, E.**, 2020. Comparable study on different colored sticky traps for catching of adult *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae) Fresenius Environmental Bulletin, 29(9): 7349-7354.
2. **Topuz, E.**, Madanlar, N., and Erler, F., 2018. Chemical composition, toxic and development- and reproduction-inhibiting effects of some essential oils against *Tetranychus urticae* Koch (Acarina: Tetranychidae) as fumigants, Journal of Plant Diseases and Protection, 125 (4): 377–387.
3. **Topuz, E.**, Erler, F., and Gümrükcü, E., 2016. Survey of indigenous entomopathogenic fungi and evaluation of their pathogenicity against the carmine spider mite, *Tetranychus cinnabarinus* (Boisd.), and the whitefly, *Bemisia tabaci* (Genn.) biotype B. Pest Management Science, 72(12): 2273-2279.
4. **Topuz, E.**, Madanlar, N., and Erler, F., 2012. Evaluation of fumigant toxicity of *Mentha pulegium* essential oil against *Tetranychus cinnabarinus* under greenhouse conditions. Fresenius Environmental Bulletin, 21(9a): 2739-2745.
5. **Topuz, E.**, and Erler, F., 2007. Bioefficacy of some essential oils against the carmine spider mite, *Tetranychus cinnabarinus*. Fresenius Environmental Bulletin, 16(11b):1498-502.
6. Kırışık, M., **Topuz, E.**, Çobanoğlu, S., 2018. *Tyrophagus neiswanderi* (Acari: Acaridae) as a Pest of Greenhouse Spinach in Antalya, Turkey. Journal of Agricultural Sciences **24** (2018) 517-522.
7. **Bulut, E.**, and Göçmen, H., 2000. Pests and their natural enemies on greenhouse vegetables in Antalya, Bulletin OILB Srop, 23(1): 33-37.



## PUBLICATIONS

### NATIONAL ARTICLES AND PAPERS

1. KIRIŞIK M., Topuz E., 2019. Determination of the effectiveness of *Isaria fumosorosea* at different doses against the spinach pest *Tyrophagus neiswanderi* (Acari: Acaridae). Horticultural Studies, 2019/36(1):41-45 (<https://doi.org/10.16882/derim.2019.444321>).
2. Topuz, E., Tekşam, İ., Karataş, A., 2016. Topuz, E., Tekşam, İ., Karataş, A., 2016. Determination of biotechnical control possibilities of *Tuta absoluta* (Meyrick) (Lepidoptera:Gelechiidae) in West Mediterranean Region. Plant Protection Bulletin, 56(3): 239 – 258. (DOI 10.16955/bkb.35749).
3. Tekşam, İ., Keçeci, M., Topuz, E., Karataş, A., Öztop, A., 2013. Tekşam, İ., Keçeci, M., Topuz, E., Karataş, A., & Öztop, A. 2013. Performance of *Trissolcus semistriatus* (Hymenoptera: Scelionidae) on Eggs of *Dolycoris baccarum* (Heteroptera: Pentatomidae), Stored at -20°C. Journal of Derim, 30(1), 24-35.
4. Topuz, E., and Madanlar, E., 2011. Contact and repellency effects of some plant essential oils against *Tetranychus cinnabarinus* (Boisduval, 1867) (Acari: Tetranychidae) Türk. Entomol. Bült., 1 (2):99-107.
5. **Topuz, E.**, Tekşam, İ., Keçeci, M., Karataş, A. and Öztop, A., 2011. Determination of effects of different food groups on some biological parameters of *Dolycoris baccarum* L.(Het.: Pentatomidae) and on some parameters of parasitize of parasitoid *Trissolcus Semistriatus* (Hym:Scelionidae). Plant Protection Bulletin, 51(2):147-157.
6. **Topuz, E.** and Madanlar, N., 2006. Herbal Etheric Oils and Their Usage Possibilities Against Pests, Journal of Derim, 23(2): 54-56.
7. Topuz E., 2005. Herbal Etheric Oils and Their Usage Possibilities Against Pests, Journal of Derim, 23(2): 54-56
8. Keçeci, M., Topuz, E., Tekşam, İ., Karataş, A., 2008. Red Palm Weevil *Rhyncophorus ferrugineus* (Olivier). Tarımın Sesi Dergisi, Sayı:18, s.19-22.
9. Topuz, E., 2007. Applications of Biological Control Against Pest in Greenhouse Vegetable Growing. Tarımın Sesi Dergisi, 13: 18-21.



# EMİNE TOPUZ, PhD

## Agricultural Engineer



### PUBLICATIONS

#### **INTERNATIONAL PAPERS, SEMINARS, ETC.**

1. ERLER F., ATEŞ A.Ö., TOSUN H.Ş., İKTEN C., İMREK B., **TOPUZ E.**, et al., "Evaluation of two entomopathogenic fungi and their combination with summer oil for the control of Tomato moth, *Tuta absoluta* (Meyrick)", International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF-2018), İZMİR, TÜRKİYE, 2-5 Nisan 2018, vol.1, no.1, pp.119-119.
2. ERLER F., BİÇEN Ş., ÖNDER Z., İKTEN C., İMREK B., **TOPUZ E.**, et al., "Efficacy of different coloured sticky traps in capturing Tomato moth, *Tuta absoluta* (Meyrick)", International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF-2018), İZMİR, TÜRKİYE, 2-5 Nisan 2018, vol.1, no.1, pp.123-123.
3. KIRIŞIK, M., **TOPUZ, E.**, ERLER F., Effect mechanism of entomopathogenic fungi and produced some toxins, International Agricultural Science Congress, 09-12 May 2018, Yuzuncu Yil University, Van, Turkey.
4. **TOPUZ E.**, KIRIŞIK M., KEÇECİ M., GÜMRÜKCÜ E., ÖZDEMİR I., Studies on pests in some minor vegetables cultivated in Antalya province . International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF 2017 Cappadocia / Turkey). May 15 - 17, 2017, 1179. Sayfa
5. **TOPUZ E.**, AYDOĞDU M., ÖZDEMİR M., Batı Akdeniz Bölgesi Enginar üretim alanlarında yeni bir zararlı: *Vanessa cardui* (Linnaeus, 1758) (Lepidoptera: Nymphalidae). International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF 2017 Cappadocia / Turkey). May 15 - 17, 2017 (Poster). 1180. Sayfa
6. KIRIŞIK M., **TOPUZ E.**, 2017. Determination of the Effect Entomopathogen Fungus *Paecilomyces fumosoroseus* against a Spinach Pest *Tyrophagus neiswanderi* (Acari: Acaridae). 6th Entomopathogens And Microbial Control Congress, 14-16 Sep 2017 Tokat/ TURKEY.
7. **TOPUZ E.**, Fumigant Toxicity of *Mentha pulegium* L. Essential Oil Against Adults of *Thrips tabaci* Lindeman (Thysanoptera: Thripidae), *Bemisia tabaci* (Gennadius) (Hemiptera: Aleyrodidae) and *Tuta absoluta* (Meyrick, 1917) (Lepidoptera: Gelechiidae). 27th International Scientific-Expert Congress of Agriculture and Food Industry, 26-28 September 2016, Bursa, Turkey. 273 s.
8. **TOPUZ, E.**, MADANLAR, N., ŞAHİN, H., 2010. Essential oil compositions of some mediterranean medicinal and aromatic plants. 6th Conference on Aromatic and Medicinal Plants of Southeast European Countries (6th CMAPSEEC) April 18-22, Antalya-Turkey

#### **NATIONAL PAPERS, SEMINARS, ETC.**



# EMİNE TOPUZ, PhD

## Agricultural Engineer



### ▪ PUBLICATIONS

#### NATIONAL PAPERS, SEMINARS, ETC.

1. KIRIŞIK M., SANSÜR T., **TOPUZ E.**, 2018. Determination of resistance to some insecticides of Western flower thrips [*Frankliniella occidentalis* (Pergande) (Thysanoptera: Thripidae)], which is a problem in carnation cultivation. Turkey with International Participation VII. Plant Protection Congress 14-17 November 2018-Muğla/Turkey
2. KIRIŞIK M., **TOPUZ E.**, ÇOBANOĞLU S., 2018. Greenhouse spinach pest in Turkey (Antalya): *Tyrophagus neiswanderi* (Acari: Acaridae). Turkey with International Participation VII. Plant Protection Congress 14-17 November 2018-Muğla/Turkey
3. **TOPUZ E.**, ERLER F., GÜMRÜKÇÜ E., Survey of indigenous entomopathogenic fungi and evaluation of their pathogenicity against the carmine spider mite, *Tetranychus cinnabarinus* (Boisd.), and the whitefly, *Bemisia tabaci* (Genn.). VI. Plant Protection Kongres, 5-8 Eylül 2016, Konya, Turkey (oral), ss.69-69.
4. **TOPUZ, E.**, TEKŞAM, İ. AND KARATAŞ A., 2015. Investigation of Biotechnological Control Possibilities of *Tuta absoluta*, Constituting a basis for control of the pest, in the Western Mediterranean Region of Turkey. Central Anatolia Region, 2nd Agriculture and Food Congress, 28 - 30 April, Nevşehir.
5. **TOPUZ, E.**, AND MADANLAR N., 2015. Fumigant Effects of Some Herbal Essential oils on *Tetranychus cinnabarinus* (Boisduval) (Acarina: Tetranychidae). Central Anatolia Region, 2nd Agriculture and Food Congress, 28 - 30 April, Nevşehir.
6. TEKŞAM, İ., KEÇECİ, M., **TOPUZ, E.**, KARATAŞ, A., ÖZTOP A., 2011. Performance of *Trissolcus semistriatus* (Hymenoptera: Scelionidae) on Eggs of *Dolycoris baccarum* (Heteroptera: Pentatomidae), Stored at -20°C. IVth Plant Protection Congress of Turkey, 29-30 June 2011,p: 185, Kahramanmaraş.
7. TEKŞAM, İ., KEÇECİ, M., **TOPUZ, E.**, KARATAŞ, A., ÖZTOP A., 2011 Biological Parameters of *Trissolcus semistriatus* (Hymenoptera: Scelionidae) on Eggs of *Dolycoris baccarum* (Heteroptera: Pentatomidae), Stored at -80°C. IVth Plant Protection Congress of Turkey,29-30 June 2011, p: 185, Kahramanmaraş.
8. **TOPUZ, E.** AND MADANLAR, N., 2010. Investigating Contact and Repellent Effects of Some Herbal Essential Oils on *Tetranychus cinnabarinus* (Boisduval) (Acarina: Tetranychidae). XXth National Biology Congress, 21-25 June, Denizli.
9. **TOPUZ, E.**, TEKŞAM, İ., KEÇECİ, M., KARATAŞ, A. AND ÖZTOP, A., 2010. Improving Artificial Diets for Mass Production of *Dolycoris baccarum* L. (Het.: Pentatomidae) in Laboratory Conditions. XXth National Biology Congress, 21-25 June, Denizli.
10. ARİ E., **TOPUZ E.**, Pests and Control Methods Encountered in Some Natural Plants Cultured from antalya Flora., IV. National Ornamental Plants Congress Mersin, Türkiye, 20- 22 October, 2010, ss.48-48.



# EMİNE TOPUZ, PhD

## Agricultural Engineer



### PUBLICATIONS

#### **NATIONAL PAPERS, SEMINARS, ETC.**

11. ÜNLÜ, A., GÜNEŞ, S., ÇELİK, N., BAYSAL, Ö., GÜMRÜKCÜ, E., **TOPUZ, E.**, TEKŞAM, İ. AND KARATEKİN, N., 2008. Diseases Tests conducted in BATEM within the Scope of the Project that in the Name of Developing F1 Hybrid Vegetable Varieties and Public-Private Cooperation in Seed Production". Ankara Univ. Agr. Fac., IIIrd Seed Congress of Turkey, 25-28 June, Kapadokya. (Poster, p.180).
12. KABAŞ, A., OĞUZ, A., ZENGİN, S., GÜNEŞ, S., ÇELİK, N., **TOPUZ E.**, TEKŞAM, İ., 2007 Improving Lines, which are resistant to Tomato yellow leaf curl virus (TYLCV) and suitable for Greenhouse tomato cultivation. Vth National Horticulture Congress, 4-7 September, Erzurum.
13. KEÇECİ, M., TEKŞAM, İ., **TOPUZ, E.**, ÖZTOP, A., 2007. Determination of Adult Parasitoid (Dip.: Tachinidae) and Parasitism Rate of Eurygaster integriceps Put. (Het.:Scutelleridae) in Antalya and Burdur Provinces. IIInd Plant Protection Congress of Turkey, 27-29 August, Isparta. (Poster, p.174).

### OTHER PUBLICATIONS

#### **Ph.D. Thesis, Master Thesis, Reports, Books etc.**

Pests and Their Natural Enemies on Greenhouse Vegetables in Antalya, (1994-1998, Akdeniz University, (Master's Thesis).

Effects of Some Plant Essential oils on Tetranychus cinnabarinus (Boisd.) (Acarina: Tetranychidae) and Application Possibilities of the Most Effective one in Greenhouse Farming, (2004-2009, Ege University, PhD Thesis)

Leafy Vegetables Technical Instruction General Directorate of Agricultural Research and Policies and General Directorate of Food and Control, Ankara -2021, 91 s.

Greenhouse Integrated Management Technical Instruction General Directorate of Agricultural Research and Policies and General Directorate of Food and Control, Ankara-2017, 138 p.





**EMİNE TOPUZ, PhD**  
Agricultural Engineer

**TAGEM**  
R&D AND INNOVATION

### **Membership, Training, Course, Meeting, Congress, Symposium and Other Activities**

Workshop on Current Situation, Struggle and Possible Risks of Important Invasive Insect Species in Our Country, 21 December 2021, Online Workshop.

International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF) 15 - 17 Mayıs, 2017, Kapatokya, Turkey.

VI. Plant Protection Congress, 5-8 Eylül 2016, Konya, Turkey.

Central Anatolia Region, 2nd Agriculture and Food Congress, 28 - 30 April, Nevşehir

XXth National Biology Congress, 21-25 June, 2010, Denizli, Turkey.

IOBC/WPRS Working Group of Integrated Pest Control in Protected Crops in the Mediterranean Climate Meeting, 24-28 Nisan 2000, Antalya.