



TAGEM
R&D AND INNOVATION

WESTERN MEDITERRANEAN AGRICULTURAL
RESEARCH INSTITUTE/ ANTALYA



MUSA KIRIŞIK, PhD Agricultural Engineer

EDUCATION

- **Assoc. prof**
- **PhD** 2017-2021 Akdeniz University
Plant Protection/Entomology
- **MSc** 2014-2017 Akdeniz University
Plant Protection/Entomology
- **Bachelor's Degree** 2008-2013 Akdeniz University
Faculty of Agriculture
- LANGUAGE** English YÖKDİL 75 / YDS 56.50

CAREER

- 2016- Agricultural Engineer, Western Mediterranean
Agricultural Research Institute, ANTALYA
- 2013-2016 Agricultural Engineer, Gelendost District Directorate
of Agriculture and Forestry - ISPARTA

ABOUT ME


I was born in 1990 in Antalya. In 2013, he graduated from Akdeniz University Faculty of Agriculture. He completed his master's degree in the Department of Entomology at the same university in 2017, and completed his doctoral education in the Department of Entomology of the same university in 2021.

I served as both a leader and a researcher in projects on entomopathogenic fungi, insect toxicology, and plant-insect relationship. He specializes in entomology and continues his research on alternative pest control methods.

CONTACT

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■ **PROJECTS**

■ **Projects Conducted**

1. Testing of Anti-Pest Efficacy of Promising Entomopathogenic Fungi Obtained from Western Flower Thrips *Frankliniella occidentalis* (Pergande) (Thysanoptera: Thripidae) in Field Conditions. (15/11/2020-15/11/2021, TUBITAK- Project Leader)
2. Studies on the Identification and Control of Diseases, Pests and Weeds in Edible Leaf Vegetables in the Western Mediterranean Region. (01/01/2017-31/12/2020, TAGEM- Researcher)
3. Investigation of the Presence of *Xylella fastidiosa* and Vector Insect Species in Different Hosts in Antalya Province and Determination of the Measures to be Based on Risk Management. (01/01/2016-31/12/2020, TAGEM- Researcher)
4. Gene Pool Creation and Variety Development by Clone Selection in *Sardinia* (*Pelargonium* sp.) TAGEM project (01/01/2017-31/12/2021, TAGEM- Researcher)
5. Development of Qualified Generators (Halfway Material) for Melon Breeding Programs and Seed Technology Project (TAGEM, 01/01/2014-31/12/2018, Researcher).
6. 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- Project Leader)
7. Citrus and Narda Biological Control Project by Women's Hands (01/01/2018-31/12/2019, EYYDB- Researcher)
8. Development of Qualified Generators (Halfway Material) for Eggplant Breeding Programs and Seed Technology Project (TAGEM, 01/01/2014-31/12/2018, Researcher).
9. Trap Insect Hand in Hand, Spreading to Healthier Generations Project (01/01/2021-31/12/2021, EYYDB- Researcher)
10. Identification of Entomopathogen Fungus Isolation from Western Flower Thrips *Frankliniella occidentalis* Pergande (Thysanoptera: Thripidae) and Testing of its Efficacy against Pest (16/09/2019-16/09/2021, Akdeniz University BAP Project- Doctoral Thesis)

■ **Ongoing 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 (TUBITAK 1001, 2022-2025, Researcher)
2. Pilot Scale Production of Local Entomopathogenic Nematodes (15/05/2022-15/05/2024 TAGEM-21/AR-GE/10, Researcher)
3. 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)
4. Development of Qualified Generators (Halfway Material) and Seed Technology for Melon Breeding Programs (TAGEM, 01/01/2020-31/12/2024 Researcher).
5. Development of Qualified Generators (Halfway Material) and Seed Technology Project for Eggplant Breeding Programs (TAGEM, 01/01/2020-31/12/2024 Researcher).
6. Development of Qualified Lines and Varieties within the Scope of Pepper Breeding Programs-II (Sub-Project: Development of Pepper Lines Resistant to Yellow Tea Tree (*Polyphagotarsonemus latus* Banks)) (01/01/2020-31/12/2022, TAGEM- Researcher)
7. Investigation of the Presence of *Xylella fastidiosa* and Vector Insect Species in Different Hosts in Antalya Province and Determination of the Measures to be Taken as a Basis for Risk Management. (01/01/2021-31/12/2024 TAGEM- Researcher)



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■ **PUBLICATIONS**

■ **INTERNATIONAL ARTICLES AND PAPERS**

■ **Articles Published in International Journals**

1. KIRIŞIK M., Dağlı F., 2021. Resistance to bifentazate and abamectin in *Tetranychus urticae* (Acari:Tetranychidae) greenhouse populations collected from coastal regions of Antalya (Turkey) in 2016. *Fresenius Environmental Bulletin*, 30(6B), 7672 -7679.
2. KIRIŞIK M., Erler F., Boyacı F., Bayram Y., 2020. Evaluation of resistance in 16 eggplant genotypes to the two-spotted spider mite, *Tetranychus urticae* Koch (Acari: Tetranychidae). *Phytoparasitica*, 1-11.
3. KIRIŞIK M., Ünlü M., Erler F., 2020. Evaluation of some melon lines for their resistance against melon aphid, *Aphis gossypii* Glover. *Turkish Journal of Agriculture and Forestry*, 44(3), 322-329.
4. Erler F., KIRIŞIK M., Topuz E., 2020. Comparable study on different colored sticky traps for catching of adult *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae). *Fresenius Environmental Bulletin*, Volume 29-No.09/2020, 7349-7354.
5. Kahraman T., KIRIŞIK M., Kahraman MU., 2020. Determination of Pests and Beneficial Species in Avocado Orchards in Antalya Province. *Horticultural Studies*, 37(2):150-154 DOI: 10.16882/HortiS.833769
6. 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*, 7-7. <https://doi.org/10.16882/derim.2019.444321>.
7. KIRIŞIK M., Topuz E., Çobanoğlu S., 2018. *Tyrophagus neiswanderi* (Acari: Acaridae) as a Pest of Greenhouse Spinach in Antalya, Turkey. *Journal of Agricultural Sciences* 24 (4), 517-522.
8. KIRIŞIK M., Erler F., 2018. The usage possibilities of entomopathogenic fungi in the control of western flower thrips, *Frankliniella occidentalis* (Pergande) (Thysanoptera: Thripidae). *Turkish Bulletin of Entomology*, 7 (4), 293-303.
9. KIRIŞIK M., Erler F., 2017. Biological control agents used commercially in greenhouse vegetable production areas in Antalya province. *Mediterranean Agricultural Sciences*, 30(3), 189-195.

■ **International Papers, Seminars, etc.**

1. KIRIŞIK M., Dağlı F., 2017 Susceptibility to abamectin and bifentazate in 5 *Tetranychus urticae* Koch. (Acari: Tetranychidae) populations from Antalya in 2016. 2nd International Balkan Agriculture Congress, 14-16 May 2017, Tekirdağ/ TURKEY.
2. Topuz E., KIRIŞIK M., Keçeci M., Gümrükçü E., Özdemir I., 2017. Studies on Pests in Some Minor Vegetables Cultivated in Antalya Province. International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF 2017 Cappadocia / Turkey).
3. 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.
4. KIRIŞIK M., 2017. Use of Entomopathogenes in Glasshouse Vegetable Production. 6th Entomopathogens And Microbial Control Congress, 14-16 Sep 2017 Tokat/ TURKEY.
5. Erler F., Ateş A., Tosun H., İkten C., İmrek B., Topuz E., KIRIŞIK M., 2018. 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 Çeşme-İzmir/ Turkey), 2-5 April 2018.



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6. Erler F., Biçen Ş., Önder Z., Tosun H., İkten C., İmrek B., Topuz E., KIRIŞIK M., 2018. Efficacy of Different Coloured Sticky Traps in Capturing Tomato Moth, *Tuta absoluta* (Meyrick). International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF 2018 Çeşme-İzmir/ Turkey), 2-5 April 2018.
7. KIRIŞIK M., Dağlı F., 2018. Efficacy of some acaricides against abamectin-resistant *Tetranychus urticae* population from Antalya, Turkey. International Agricultural Sciences Congress, 09-12 May 2018 Van/Turkey.
8. KIRIŞIK M., Topuz E., Erler F., 2018. Effect mechanism of entomopathogenic fungi and produced some toxins. International Agricultural Sciences Congress, 09-12 May 2018 Van/Turkey.
9. Erler F., KIRIŞIK M., Ünlü M., 2018. Determination of the cotton-melon aphid, *Aphis gossypii* Glover (Hemiptera: Aphididae) resistance in some melon lines by choice-test experiments. 1. International Gap Agriculture & Livestock Congress 25-27 April 2018 – Şanlıurfa/TURKEY.
10. Ünlü M., Kurum R., Sülü S.M., KIRIŞIK M., 2018. Determination of resistance status of melon landraces against *Acidovorax citrulli* and *Aphis gossypii* in Turkey. 30. International Horticultural Congress 12-16 August 2018-İstanbul/TURKEY.
11. KIRIŞIK, M., Sansür, T., 2019. Molecular Identification Approaches for Mealybug Pest Species (Hemiptera: Pseudococcidae). 1. Moleküler Bitki Koruma Kongresi, 10-13 Nisan 2019, Adana, Türkiye
12. Yıldız, K., Sansür, T., KIRIŞIK, M., 2019. Search for presence of *Xylella fastidiosa* and its vectors in olive and citrus orchards in Antalya Province. 1. Moleküler Bitki Koruma Kongresi, 10-13 Nisan 2019, Adana, Türkiye.
13. KIRIŞIK, M., Kahraman, T., Erler F., 2019. *Bacillus thuringiensis* var. *kurstaki* (Btk)'nin *Cryptolaemus montrouzieri* Mulsant (Coleoptera: Coccinellidae)'ye karşı püskürtme ve sub-lethal etkisinin belirlenmesi. 7. Entomopatojenler ve Mikrobiyal Mücadele Kongresi, 11-13 Eylül 2019, Kayseri, Türkiye.
14. Baki, D., KIRIŞIK, M., Erler F., 2019. Antalya İli'nden toplanan toprak örneklerinden *Galleria mellonella* (L.) kullanarak entomopatojen fungus izolasyonu ve Yeşil Şeftali Afidi (*Myzus persicae* Sulzer)'ne karşı etkinliklerinin belirlenmesi. 7. Entomopatojenler ve Mikrobiyal Mücadele Kongresi, 11-13 Eylül 2019, Kayseri, Türkiye.

▪ NATIONAL ARTICLES AND PAPERS

▪ Articles Published in National Journals

1. KIRIŞIK M., Kahraman T., Erler F., 2020. *Bacillus thuringiensis* var. *kurstaki* (Btk) against *Cryptolaemus montrouzieri* Mulsant (Coleoptera: Coccinellidae) with different methods. Turkish Journal of Biological Control, 11(1), 55-63. DOI: 10.31019/tbmd.620020
2. Baki D., KIRIŞIK M., Erler F., 2020. Determination of the effects of potential entomopathogenic fungus isolates isolated from the soil of Antalya Province on *Myzus persicae* using *Galleria mellonella*. Turkish Journal of Biological Control, 11(1),43-54. DOI: 10.31019/tbmd.620116

▪ 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.



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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.

OTHER PUBLICATIONS

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

1. Kırışık M., 2017. Tetranychus urticae Koch, collected from Antalya and its districts. Determination of susceptibility levels of (Acari:Tetranychidae) populations to Abamectin and Bifenazate, **(Master's Thesis)**.
2. Kırışık M., 2017. Biological control of Planococcus citri. Turkish Journal of Agriculture.
3. Kırışık M., 2021. Isolation, identification and testing of entomopathogenic fungi from Western flower thrips Frankliniella occidentalis (Pergande) (Thysanoptera: Thripidae) and testing their effectiveness against pests, **(PhD Thesis)**.

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

1. Insect Life Table, Predation Rate, Computer Simulation, Ankara January 16-20, 2017
2. Plant Nutrition Course, Adana 2016
3. 2nd International Balkan Agriculture Congress, 14-16 May 2017, Tekirdag/ TURKEY.
4. 6th Entomopathogens And Microbial Control Congress, 14-16 September 2017, Tokat/ TURKEY.
- 5th International Agricultural Sciences Congress, 09-12 May 2018, Van/Turkey.
6. Turkey with International Participation VII. Plant Protection Congress 14-17 November 2018, Muğla/Turkey.
- 7.1. Molecular Plant Protection Congress, 10-13 April 2019, Adana, Turkey.
8. Usage of entomopathogenic fungi and endophytic fungi against thrips and its molecular characterization, 01 June-31 August 2019, Nitra, Slovakia.
9. 7. Entomopathogens and Microbial Control Congress, 11-13 September 2019, Kayseri, Turkey.
10. Workshop on Friendly Microorganisms in Plant Health, 09-10 September 2020, Online Workshop.
11. Ricania sp. (False Butterfly) and Yellow Tea Tree Facts and methods of struggle, 12 June 2020, Online Workshop.
12. Banana Workshop, 05-10 April 2021, Online Workshop.
- 13th International Workshop on New Approaches in Combating Soil-Originated Pathogens, 15 December 2021, Online Workshop.
14. Workshop on Current Situation, Struggle and Possible Risks of Important Invasive Insect Species in Our Country, 21 December 2021, Online Workshop.
15. TAIEX Workshop, 27 – 30 September 2021, (on-line)