



TAGEM
R&D AND INNOVATION

BLACK SEA AGRICULTURAL RESEARCH
INSTITUTE / SAMSUN

DR. ŞEYMA YİĞİT BAŞ

Agricultural Engineer (PhD)

EDUCATION

- Assoc. prof**
- PhD** 2015-2022 Ondokuz Mayıs University
Institute of Graduate Sciences
- MSc** 2013-2015 Ondokuz Mayıs University
Institute of Science
- Bachelor's Degree** 2008-2012 Ondokuz Mayıs University
Department of Plant Protection
- LANGUAGE** English (Yökdil:68.75)

CAREER

- 2022- - Researcher – Black Sea Agricultural Research
Institute - SAMSUN
- 20012-2022 - Research Assistant - Ondokuz Mayıs University,
Department of Plant Protection - SAMSUN

ABOUT ME

She was born in 1988 in Istanbul. In 2012, she graduated from Suleyman Demirel University, Faculty of Agriculture.

She completed her master's degree in 2015 and her doctorate in 2022 at OMU Institute of Science, Department of Plant Protection.

She continues her studies at the Black Sea Agricultural Research Institute, Department of Plant Protection in Entomology.

CONTACT

Karadeniz Tarımsal Araştırma Enstitüsü
Çiftlik Mah. Atatürk Bulvarı No: 313
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PROJECTS

Projects Conducted

1. Determination of the Efficiency of Different Colors and Types of Traps Against *Palomena prasina* L. (Hemiptera: Pentatomidae) Problems in Hazelnut Production Areas. (TÜBİTAK)
2. Use of *Coleus forskohlii* in Plant Fungal Diseases (TÜBİTAK)
3. Identification of the natural enemies and activities of the hazelnut (*Palomena prasina* Hemiptera: Pentatomidae) (OMÜ-BAP)
4. Research on the possibilities of using *Trichoderma* species in the biological control of root knot nematodes.(OMÜ-BAP)

Ongoing Projects

PUBLICATIONS

INTERNATIONAL ARTICLES AND PAPERS

Articles Published in International Journals

1. Yiğit, Ş. & Saruhan, İ. 2022. Efficacy of Entomopathogenic Fungi, *Beauveria bassiana*, *Isaria fumosorosea* and *Metarhizium anisopliae* Against Green Shield bug, *Palomena prasina* L. (Heteroptera: Pentatomidae) *Kahramanmaraş Sütçü İmam Üniversitesi Tarım ve Doğa Dergisi*, 25 (5), 1051-1060. DOI:10.18016/ksutarimdog.vi.938399
2. Budak, E. , Yiğit, Ş. , Aşkın, A. K. , Akça, İ. & Saruhan, İ. 2022. Determination of Insecticidal Effects of Some Essential Oils on *Macrosiphum rosae* (L.)(Hemiptera: Aphididae) *Tekirdağ Ziraat Fakültesi Dergisi*, 19 (1) , 101-107. DOI: 10.33462/jotaf.893660.
3. Aşkın, A. K. , Yiğit, Ş. , Saruhan, İ. & Akça, İ. 2022. Determination of the Efficacy of Biological Preparations Against *Halyomorpha halys* (Stål, 1885) (Hemiptera: Pentatomidae). *Kahramanmaraş Sütçü İmam Üniversitesi Tarım ve Doğa Dergisi*, 25 (1) , 100-104. DOI: 10.18016/ksutarimdog.vi.891237.
4. Yiğit, Ş. , Aşkın, A. K. , Akça, İ. & Saruhan, İ. 2022. Biocidal Effect of Deltamethrine Against *Tribolium confusum* Duv. (Coleoptera: Tenebrionidae) and *Sitophilus oryzae* L. (Coleoptera: Curculionidae) Adults in Laboratory Conditions. *Black Sea Journal of Agriculture*, 5 (4), 383-386. DOI: 10.47115/bsagriculture.1103364.
5. Yiğit S. and İ. Saruhan, 2018. Efficacy of entomopathogenic nematode isolates from Turkey and Kyrgyzstan against the larvae of the mosquito species *Culex pipiens* L. (Diptera: Culicidae) under laboratory conditions. *Egyptian Journal of Biological Pest Control*. 28:84, 2-5.
6. Yiğit, Ş. , Aşkın, A. K. , Saruhan, İ. , Akça, İ. , Budak, E. , Bayhan, E. , Ölmez Bayhan, S. & Tekin, F. 2021. Investigation of the effects of some thyme oils against *Tribolium confusum* Duv (Coleoptera: Tenebrionidae) *Akademik Ziraat Dergisi*, 10 (2) , 285-290. DOI: 10.29278/azd.910593.
7. Yiğit S. and Saruhan İ. 2021. Evaluation of Biocontrol Agents for *Graphosoma lineatum* (L.) (Hemiptera: Pentatomidae) (Sci- Expanded) *International Journal of Tropical Insect Science*.



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8. Küçüktopçu, Y, Saruhan, İ, Yiğit, Ş. , Akça, İ. 2020. Integrated Control with Cannabis Pests. Journal of the Institute of Science and Technology, 10 (2) , 732-747
9. Yiğit Ş., Akça İ., Saruhan İ., Bayhan S., Bayhan E., Tekin F. 2020. Investigation of toxic effects of some essential oils against pine processionary beetle [Thaumetopoea sp.) (Lepidoptera: Notodontidae)]. Ormançılık Araştırma Dergisi
10. Yiğit, Ş , Aşkın, A , Akça, İ , Saruhan, İ . 2020. Biocidal effect of deltamethrin against Thaumetopoea wilkinsoni Tams, 1924 (Lepidoptera: Notodontidae) in laboratory conditions . Eurasian Journal of Forest Science , 8 (3) , 190-194 .
11. Yiğit S., E. Oksal, İ. Saruhan and İ. Kepenekci, 2018. Pathogenicity Of The Entomopathogenic Fungus, *Purpureocillium lilacinum* Tr1 Against Ambrosia Beetles, *Xylosandrus germanus* (Blandford) and *Xyleborus dispar* (Fabricius) (Coleoptera: Curculionidae: Scolytinae). Mun. Ent. Zool. Vol. 13, No. 2, 471-481
12. Saruhan, İ., Yiğit, Ş., Akça, İ. 2018. The Impact Of Commercial Preparation *Bacillus thuringiensis* var. *kurstaki* on the *Thaumetopoea pityocampa* (Den. & Schiff.) (Lep.: Thaumetopoeidae). Book of Proceedings IX. International Scientific Agriculture Symposium "Agrosym 2018" 1094-1098
13. Yiğit S. and İ. Saruhan, 2018. Efficiency Of Some Bacterial Isolates Against Green Shield Bug (*Palomena prasina* L., Hemiptera: Pentatomidae). Book of Proceedings IX. International Scientific Agriculture Symposium "Agrosym 2018" 1143-1147.
14. Yiğit S., B. Akyuz, I. Saruhan, I. Akca and U. Serdar, 2017. Determination of the damage ratios of Ambrosia beetles (Coleoptera: Curculionidae: Scolytinae) on Hybrid Chestnuts. The Journal of Zoology Studies 2017; 4(5): 19-22
15. Yiğit Ş., İ. Saruhan İ. Akça, 2019. The effect of some commercial plant oils on the pine processionary moth *Thaumetopoea pityocampa* (Lepidoptera: Notodontidae). Journal of Forest Science, 65,(8): 309-312.
16. Yiğit Ş., Oksal E., Akça İ. 2019. Effect of entomopathogenic fungus, *Purpureocillium lilacinum* (syn: *Paecilomyces lilacinus*) on *Blatta orientalis* and *Shelfordella tartara* under laboratory conditions. *Munis entomogy zoology*, 14(1), 259-264.
17. Kepenekci İ., Yiğit Ş., Atay T., Saruhan İ. 2018. Efficacy of entomopathogenic nematode isolates from Turkey and Kyrgyzstan against black timber bark beetle, *Xylosandrus germanus* (Blandford) (Coleoptera: Curculionidae: Scolytinae) adults. *Pakistan Journal of Nematology*, 36(1), 65-70
18. Saruhan İ., Yiğit Ş., Erper İ. 2017. Evaluation of some entomopathogenic fungi against the fall webworm (*Hyphantria cunea* Durr, Lepidoptera: Arctidae). *Selcuk Journal of Agriculture and Food Sciences*, 31(2), 76-81
19. Yiğit Ş., Saruhan İ., Akça İ., 2019. Farklı Bitki Ekstraktlarının *Culex pipiens* Linnaeus, 1758 (Diptera: Culicidae) Larvalarına Karşı Öldürücü Etkilerinin Belirlenmesi. *Turkish Journal of Weed Science* 22(2):2019:169-174
20. Akça İ., Saruhan İ., Yiğit Ş., Demirsoy H., Demirsoy L. 2017. Determination of food preference of *Tetranychus urticae* Koch (Acari: Tetranychidae) in different strawberry varieties.. *International Journal of Agriculture Innovations and Research*, 6(2), 348-350.

▪ **International Papers, Seminars, etc.**



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▪ NATIONAL ARTICLES AND PAPERS

▪ Articles Published in National Journals

1. Yiğit Ş., R. Kushiyevev, A. Baltacı, E. Türk ve İ. Saruhan, 2018. In Organic Tomato Cultivation control Pests Türkiye Tohumcular Birliği Dergisi. Sayı:26, 32-37.
2. Yiğit Ş., Akça İ., Bayhan E., Bayhan S., Tekin F ve Saruhan İ., 2019. Determining the Toxicity of Some Thyme Essential Oils Against the Pine Processionary [Thaumetopoea pityocampa (Lepidoptera: Notodontidae)]. Atatürk Üniv. Ziraat Fak. Derg., 50 (3): 226-230.

▪ National Papers, Seminars, etc.

1. Yiğit, Ş. and Saruhan İ. 2022. "BIOMIMICRY IN INSECT (Inspired from insects)". 2. International Black Sea Modern Scientific Research Congress held on December 21-22, 2022 / Rize, Türkiye. (Full article / Oral presentation).
2. Köse, K., Saruhan İ. and Yiğit, Ş. 2022. "THE FUNCTION OF SCENT GLAND IN INSECTS." 2. International Black Sea Modern Scientific Research Congress held on December 21-22, 2022 / Rize, Türkiye. (Full article/ Oral presentation).
3. Küçüktopçu Yeter, Başı Furkan Harun, Yiğit Şeyma, Saruhan İslam, Akça İzzet 2019. *Beaveria bassiana* izolatinin bazı depo zararlıları üzerine etkinliğinin belirlenmesi. 1. Uluslararası tarım ve çevre bilimleri araştırmaları kongresi, 37-44. (Full article / Oral presentation).
4. Aşkın A.K., Yiğit Ş., Saruhan İ., Akça İ. 2022. "INVESTIGATION OF TOXIC EFFECT OF SOME PESTICIDES AGAINST *Harmonia axyridis* (Pallas, 1773) (COLEOPTERA: COCCINELLIDAE) IN LABORATORY CONDITIONS". 11th International Istanbul Scientific Research Congress. (Full article / Oral presentation)
5. Kader Demirtaş, Asuman Mutlu, Oğuzcan Ocaklı, Yiğit Şeyma, Sevilhan Mennan (2014). Siyah çay *Thea sinensis* yeşil çay *Camelia sinensis* in kök ur nematodu *Meloidogyne arenaria* domates bitkisinin gelişimine olan etkileri. Türkiye V. Bitki Koruma Kongresi (Abstract /Poster)
6. Manzoor Hussain Sahi, Mennan Sevilhan, Yiğit Şeyma (2014). *Meloidogyne incognita* nın farklı başlangıç popülasyonlarının hassas bamyaya çeşitlerindeki üreme oranı ve bitki gelişimine etkileri. V. Bitki Koruma Kongresi (Abstract /Oral Presentation).
7. Asuman Mutlu, Oğuzcan Ocaklı, Yiğit Şeyma, Sevilhan Mennan (2014). Samsun'da yoğun tarımı yapılan farklı domates çeşitlerinin kök ur nematoduna karşı konukçu seviyelerinin belirlenmesi Türkiye V. Bitki Koruma Kongresi (Abstract /Poster)
8. Manzoor Hussain Sahi, Mennan Sevilhan, Yiğit Şeyma (2014). *Lecanicillium muscarium* un *Meloidogyne incognita* nın üremesine ve domatesteki zararı ile bitki gelişimine etkileri. Türkiye V.Bitki Koruma Kongresi (Abstract /Oral Presentation).
9. Aydınli Gökhan, Ocaklı Oğuzcan, Mutlu Asuman, Yiğit Şeyma, Mennan Sevilhan (2016). Tarla şartlarında anaçların kök ur nematodu *M. arenaria* ya dayanıklılığının ve veriminin değerlendirilmesi. Türkiye VI. Bitki Koruma Kongresi (Abstract /Oral Presentation)
10. Gür Bayram Ali, Yiğit Şeyma, Mennan Sevilhan (2016). Kök ur Nematodlarına Karşı Mücadelede *Tagetes* spp türlerinin kullanımı. Türkiye VI. Bitki Koruma Kongresi (Abstract /Oral Presentation).



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11. Cortcu Tansu, Keskin Ceyhan, Mennan Sevilhan, Yiğit Şeyma (2016). Aspirin TM ve Kalsiyum preparatlarının *Meloidogyne arenaria* yumurta açılımına etkileri. Türkiye VI. Bitki Koruma Kongresi
12. Yiğit Şeyma, Mennan Sevilhan (2016). *Meloidogyne ethiopica* nın biyolojik Mücadelesinde *Trichoderma* spp türlerinin kullanımı. Türkiye VI. Bitki Koruma Kongresi (Abstract/ Oral Presentation)
13. Yiğit Şeyma, Mennan Sevilhan, Kaya Altop Emine, Mennan Hüsrev, Aydınli Gökhan (2016). Host suitability of some weeds for *Meloidogyne arenaria* and *Meloidogyne ethiopica*. 32nd symposium ESN Braga, PORTUGAL (Abstract /Poster)
14. Yiğit Şeyma, Mennan Sevilhan, Erper İsmail (2016). Possible use of *Trichoderma* spp for biological control of root knot nematodes. 68. International symposium on Plant Protection. (Abstract/Poster)
15. Akça İzzet, Yiğit Şeyma, Saruhan İslam, Akyüz Burak, Serdar Ümit (2017). Determination on Damage Ratios of Ambrosia Beetles (Coleoptera: Scolytidae) in Hybrid Chestnuts. 6th International Chestnut Symposium (Abstract /Oral presentation)
16. Yiğit Şeyma, Kushiyevev Rahman, Baltacı Abdullah, Türk Ekrem, Saruhan İslam (2017). Pest Management In Organic Tomato Cultivation.. I. Uluslararası Organik Tarım ve Biyoçeşitlilik Sempozyumu (Abstract /Oral presentation)
17. Yiğit Şeyma, Akın Ayşegül, Saruhan İslam, Akça İzzet, Kepenekci İlker (2017). Pre studies Upon The Effect of Native Entomopathogenic Nematodes on Nymphs of Turkestan Cockroach [*Shelfordella tartara* Sauss (Dictyoptera: Blattellidae)]. 6th Entomopathogens and Microbial control Congress, 93 (Abstract/Poster)
18. Yiğit Şeyma, Hisaroğlu Elif, Akça Rifat, Saruhan İslam (2017). Fungi as Biocontrol Agents for *Graphosoma lineatum* (L.) (Hemiptera: Pentatomidae). 6 th Entomopathogens and microbial control congress (Abstract /Oral presentation)
19. Kushiyevev Rahman, Erper İsmail, Saruhan İslam, Özdemir İsmail Oğuz, Yiğit Şeyma, Tunçer Celal (2017). Repellent effects of some entomopathogenic fungi and commercial bioinsecticides against *Xylosandrus germanus* Blandford (Coleoptera: Curculionidae: Scolytinae). 6th Entomopathogens and Microbial Control Congress (Abstract /Oral presentation).
20. Yiğit Şeyma, Oksal Erçin, Atay Turgut, Akça İzzet, Kepenekci İlker (2017). Effect of Entomopathogenic Fungus, *Purpureocillium lilacinum* (syn: *Paecilomyces lilacinus*) on *Blatta orientalis* and *Shelfordella tartara* under Laboratory Conditions. 6th Entomopathogens and microbial control congress, 43 (Abstract /Oral presentation)
21. Yiğit Şeyma, Akın Ayşegül, Saruhan İslam, Akça İzzet, Kepenekci İlker (2017). Pre-studies Upon The Effect of Native Entomopathogenic Nematodes on Nymphs of Turkestan Cockroach [*Shelfordella tartara* Sauss (Dictyoptera: Blattellidae)]. The sixth International Entomopathogens and Microbial Control Congress., 1(1), 93.
22. Yiğit Şeyma, Hisaroğlu Elif, Akça Rifat, Saruhan İslam (2017). Evaluation of Some Commercial Products of Entomopathogenic Fungi as Biocontrol Agents for *Graphosoma lineatum* (L.) (Hemiptera: Pentatomidae). The sixth International Entomopathogens and Microbial Control Congress Abstract/Oral presentation)
23. Saruhan İslam, Erper İsmail, Yiğit Şeyma, Tunçer Celal, Akça İzzet (2017). The effects of some essential oils of plant origin on rice weevil (*Sitophilus oryzae* L. Coleoptera: Curculionidae). 1st International Congress on Medicinal and Aromatic., 838 (Abstract /Poster)
24. Saruhan İslam, Erper İsmail, Yiğit Şeyma, Tunçer Celal, Akça İzzet (2017). The Effects of Some Essential Oils Of Plant Origin Against *Callosobruchus chinensis* L. (Coleoptera: Bruchidae) 1st International Congress on Medicinal and Aromatic, 306 (Abstract /Oral presentation)



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25. Yiğit Şeyma, Saruhan İslam (2018). Effect Of Entomopathogenic Nematode Isolates From Turkey And Kyrgyzstan Against *Culex pipiens* L. (Diptera: Culicidae).. IX International Scientific Agriculture Symposium., 1(1), 409-409. (Abstract /Poster)
26. Saruhan İslam, Yiğit Şeyma, Akça İzzet (2018). The Impact Of Commercial Preparation *Bacillus thuringiensis* var. *kurstaki* on the *Thaumetopoea pityocampa* (Den. Schiff.) (Lep.: Thaumetopoeidae). IX International Scientific Agriculture Symposium, 1(1) (Full Article / Oral presentation).
27. Yiğit Şeyma, Saruhan İslam, Sözeri Özkan, Akça İzzet (2018). The Impact Of Some Natural Soaps *Thaumetopoea pityocampa* (Den. Schiff.) (Lep.:Thaumetopoeidae). IX International Scientific Agriculture Symposium., 1(1), 409-409. (Abstract /Poster presentation)
28. Yiğit Şeyma, Saruhan İslam (2018). Efficiency Of Some Bacterial Isolates Against Green Shield, Bug (*Palomena prasina* L., Hemiptera: Pentatomidae). IX International Scientific Agriculture Symposium,1(1) (Full Article / Oral presentation)
29. Saruhan İslam, Yiğit Şeyma, Demirci Fikret, Tağlı Cansu, Yıldız Ebru, Akça İzzet (2018). Effect of Different Isolates of *Beauveria bassiana* on *Blatta orientalis* L. and *Blatta lateralis* Walker (Blattodea: Blattidae). International Congress on Engineering and Life Sciences, 1(1), 440-440. (Abstract/ Oral presentation)
30. Akça İzzet, Yiğit Şeyma, Cebeci Emine, Bağcı Arif, Saruhan İslam (2018). The Effect of Some Commercial Plant Oils on the Pine Processionary Moth, *Thaumetopoea pityocampa* (Lepidoptera: Thaumetopoeidae). International Congress on Engineering and Life Sciences, 1(1), 441(Abtract/ Oral presentation)



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▪ **OTHER PUBLICATIONS**

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

1. Investigations on the possibilities of using Trichoderma species in the biological control of root knot nematodes. (Master Thesis - Ondokuz Mayıs University, Institute of Science and Technology, Department of Plant Protection - 2015)
2. Determination of the activities of different types of traps and some entomopathogens against Palomena prasina L. (Hemiptera: Pentatomidae) which is harmful in hazelnut. (PhD Thesis - Ondokuz Mayıs University, Institute of Graduate Science, Department of Plant Protection - 2022)

Books

Yigit S., Saruhan I. (2022). "ALTERNATIVE METHODS TO PESTS IN CHEMICALS (PLANT EXTRACTS AND ESSENTIAL OILS)" PLANT PROTECTION WITH MODERN APPROACHES (Book Chapter) İksad Publishing 223-237.

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

1. ROC VAN AMSTERDAM,2007, Erasmus
2. Eckert Schulen,2007, Erasmus
3. Molecular Biology Methods Course, 2018, Hacettepe University, Technopark, Ankara.
4. Occupational Safety and Health Education, 2017; 2021, Ondokuz Mayıs University, Samsun.
5. Training of Trainers, 2022, Ondokuz Mayıs University, Samsun.

Awards

Faculty 3rd Prize, SÜLEYMAN DEMİREL UNIVERSITY, 2012.