



TAGEM
R&D AND INNOVATION

SAIT ERTURK, PhD Agricultural Engineer

EDUCATION

- Assoc. prof** Turkish Interuniversity Board
2021-On going
- PhD** Ankara University
2018-2015
Balıkçılık Teknolojisi Mühendisliği
- MSc** Ankara University, Department of
2002-2005
Plant Protection
- Bachelor's Degree** Ankara University
1997-2002
Agriculture Faculty
- LANGUAGE** English YÖKDİL 70

CAREER


- 2022-On going, Researcher, Plant Protection Central Research Institute-Ankara**
- 2017-2022, Director, Plant Protection Central Research Institute-Ankara**
- 2011-2017, Researcher, Plant Protection Central Research Institute-Ankara**
- 2008-2011, Agriculture Engineer, Kütahya Regional Union of Agricultural Credit Cooperatives-Kütahya**
- 2006-2008, Alayunt Agricultural Credit Cooperative No. 887-Kütahya**
- 2005-2006, Agriculture Engineer, Kütahya Sugar Factory Inc**


ABOUT ME

I was born in Ankara in 1979. I completed my undergraduate education from Ankara University, Faculty of Agriculture, Department of Plant Protection in 2002. I completed my master's degree at the same university in 2005 at the Institute of Natural and Applied Sciences, Department of Plant Protection, Department of Entomology. Again in the same university, I completed my PhD education in 2015, which I started at the Institute of Natural and Applied Sciences, Department of Plant Protection, Department of Entomology.


As an Agricultural Engineer, I worked in various private organizations between 2002-2011. I am still working as a researcher at the Ministry of Agriculture and Forestry, General Directorate of Agricultural Research and Policies, Directorate of Plant Protection Central Research Institute.

CONTACT

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▪ **PROJECTS**

▪ **Projects Conducted**

1. Investigations on the efficacy of different diatomaceous earth formulations against insect pests of stored paddy rice. Funding by Republic of Türkiye Ministry of Agriculture and Forestry, General Directorate of Agricultural Research and Policies (GDARP), 2015
2. Investigations on Detection of Harmful Insect Species in Wheat Warehouses in Ankara Province and Uses of Trans-Anethole+CO₂ for Control of this pest. Funding by Republic of Türkiye Ministry of Agriculture and Forestry, General Directorate of Agricultural Research and Policies (GDARP), 2015
3. Determination of Phosphine Resistance in Some Insect Damages in Stored Grain in Turkey by Toxicological and Molecular Methods. Funding by The Scientific and Technological Research Council of Türkiye (TÜBİTAK) (1001), 2018
4. Synthesis of Mandelic Acid Esters, Determination of Insecticidal and Fungicidal Activities - Funding by Republic of Türkiye Ministry of Agriculture and Forestry, General Directorate of Agricultural Research and Policies (GDARP), 2021
5. Determination of the Efficiency of Ozone Application Against Storage Damage of Mediterranean Fruitfly *Ceratitis capitata* (Wiedemann) (Diptera: Tephritidae), Funding by Republic of Türkiye Ministry of Agriculture and Forestry, General Directorate of Agricultural Research and Policies (GDARP), 2022
6. Determination of Insecticidal and Nematicidal Activities of Some Essential Oils and Its Components, Funding by Republic of Türkiye Ministry of Agriculture and Forestry, General Directorate of Agricultural Research And Policies (GDARP), 2022



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■ PUBLICATIONS

■ INTERNATIONAL ARTICLES AND PAPERS

■ Articles Published in International Journals

1. Tulek A., **Ertürk S.**, Kepenekci I., Atay T., 2015. Efficacy of Native Entomopathogenic Nematodes against the Stored Grain Insect Pest, *Rhyzopertha dominica* (F.) (Coleoptera: Bostrichidae) Adults. Egyptian Journal of Biological Pest Control, 25: (1), 251-254
2. **Ertürk S.**, Ferizli A.G., Emekci M., 2017. Evaluation of diatomaceous earth formulations for the control of rice weevil, *Sitophilus oryzae* L., 1763 (Coleoptera: Curculionidae) in stored rice. Turkish Journal of Entomology, 41 (3): 347-354.
3. **Ertürk S.**, Şen F., Alkan M., Ölçülü M., 2018. Effect of different phosphine gas concentrations against *Frankliniella occidentalis* (Pergande, 1895) (Thysanoptera: Thripidae) on tomato and green pepper fruit, and determination of fruit quality after application under low-temperature storage conditions. Turkish Journal of Entomology, 42: (2), 85-92.
4. Alkan M., **Ertürk S.**, Atay, T., Çağlayan, A., 2019. Insecticidal efficacy of local diatomaceous earths against adult and larvae of *Tenebrio molitor* L., 1758 (Coleoptera: Tenebrionidae). Turkish Journal of Entomology, 43: (3), 347-354.
5. Alkan M., Atay, T., **Ertürk S.**, Kepenekci, İ., 2019. Comparison of Bioactivities of Native Diatomaceous Earth Against Turkestan Cockroach [*Blatta lateralis* Walker (Blattodea: Blattidae)] Nymphs. Applied Ecology and Environmental Research, 17 (3): 5987-5994.
6. Alkan M., **Ertürk S.**, Firat T A., Çiftçi, E., 2019. Study of Insecticidal and Behavioral Effects and Some Characteristic of Native Diatomaceous Earth against the Bean Weevil, *Acanthoscelides obtectus* (Coleoptera: Chrysomelidae). Fresenius Environmental Bulletin, 28: (4), 2916-2922.
7. Alkan M., **Ertürk S.**, 2020. Insecticidal Efficacy and Repellency of Trans-Anethole against Four Stored-Product Insect Pests. Journal of Agricultural Science, 26: (1), 64-70.
8. **Ertürk, S.**, Atay, T., Toprak, U., Alkan, M. 2020. The efficacy of different surface applications of wettable powder formulation of Detech® diatomaceous earth against the rice weevil, *Sitophilus oryzae* (L.) (Coleoptera: Curculionidae). Journal of Stored Products Research, 89, 101725.
9. **Ertürk, S.** 2021. Combined and individual effects of diatomaceous earth and methyl eugenol against stored products insect pests. Turkish Journal of Entomology, 45: (2), 163-174.
10. Alkan, M., Özdem, A., Yılmaz, A., Yücel, C., İnak, E., **Ertürk, S.**, Toprak S.2023. Emulsion oil in water formulation of methyl-eugenol increases its insecticidal activity against the codling moth, *Cydia pomonella* L. (Lepidoptera: Tortricidae). Applied Zoology and Entomology, doi: 10.1007/s13355-023-00815-y.



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13. **Ertürk S.**, Emekci M., 2014. Using possibilities of diatomaceous earth against stored paddy rice pest the red flour beetle *Tribolium castaneum* Herbst. Plant Protection Bulletin, 54: (3), 211-217.
14. **Ertürk S.**, Yılmaz A., Fırat T A., Alkan M., 2017. Fumigant effect of trans-anethole and carbon dioxide mixture against to *Rhyzopertha dominica*, *Tribolium castaneum* and *Sitophilus oryzae*. Plant Protection Bulletin, 57: (3), 391-400.
15. Alkan M., Şimşek Ş., Yılar M., **Ertürk S.**, 2018. Behavioural and insecticidal activity of *Salvia officinalis* L. (Lamiaceae) essential oil against *Tribolium confusum* Jacquelin du Val (Coleoptera: Tenebrionidae) and *Rhyzopertha dominica* Fabricius (Coleoptera: Bostrichidae). Plant Protection Bulletin, 58: (2), 71-78.
16. **Ertürk, S.** & U. Toprak, 2020. The effect of phosphine fumigation on some stored product pests at low-temperature conditions. Harran Journal of Agricultural and Food Science, 24: (2), 204-211.
17. **Ertürk S.**, Alkan M., Atay T., 2020. Effect of Native Diatomaceous Earth against Potato Tuber Moth, [*Phthorimaea operculella* (Zeller) (Lepidoptera: Gelechiidae)], Pupae. KSU J. Agric Nat 24: (1), 165-170.

▪ **OTHER PUBLICATIONS**

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

1. **Ertürk S.**, 2015. Investigations on the efficacy of different diatomaceous earth formulations against insect pests of stored paddy rice. (Ph.D. Thesis, Supervisor Prof. Dr. Mevlut EMEKÇİ)
2. **Ertürk S.**, 2005. Investigations on the distribution of *Heterodera schachtii* Schmidt, 1871 in sugar beet cultivation areas of Konya district. (Master Thesis, Supervisor: Prof. Dr. M. Emel ÖKTEN).
3. **Ertürk S.**, Yılmaz A., 2015. Voles [*Microtus* spp. (Rodentia: Muridae)] and Management Methods. TÜRKTOB, 16, 48-50.
4. Rayees Ahmad, Shafiya Hassan, Showkat Ahmad, Syed Nighat, Yendrambamb K. Devi, Kounser Javeed, Salma Usmani, Mohammad Javed Ansari, **Sait Erturk**, Mustafa Alkan and Barkat Hussain (December 28th 2021). Stored Grain Pests and Current Advances for their Management [Online First], IntechOpen, DOI: 10.5772/intechopen.101503. Available from: <https://www.intechopen.com/online-first/79822>
5. **Ertürk S.**, Alkan M., Çakır E., Elibüyük E. A., Koca E. (2018). Classification of Pesticides according to Mode of Action. Birişik N. (Ed.). Chemical Control from Theory to Practice (s. 99-116). Ankara. Republic of Turkey Ministry of Food Agriculture and Livestock General Directorate of Food And Control, Matsa Printing house. ISB978-605-2207-13-0



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

1. Koçak E., Yılmaz A., Alpkent Y N., **Ertürk S.**, 2017. Phosphine resistance to some coleopteran pests in stored grains across Turkey. Conference of the IOBC-WPRS (OILB-SROP) Working Group on “Integrated Protection of Stored Products” Ljubljana, Slovenia, 3-5 July 2017.
2. **Ertürk S.** and Emekci M., 2014. Evaluation of Diatomaceous Earth Formulations for Control of *Sitophilus oryzae* (L.), in Stored Paddy Rice. Proceedings of the Fifth Plant Protection Congress of Turkey, 21, 3-5 February 2014, Antalya, Türkiye.
3. **Ertürk S.**, Servi H., Karakoç Ö.C., Alkan M., Yücel Y., Polatoğlu K. 2016. Tanacetum parthenium (Asteraceae) Uçucu Yağının İnsektisidal ve AChE Engelleyici Aktiviteleri. Turkey 6th Plant Protection Congress with International Participation, 182, 5-8 September, Konya, Türkiye.
4. Alkan M., Servi H., Karakoç Ö.C., **Ertürk S.**, Yücel Y., Polatoğlu K. 2016. Insecticidal and AChE inhibitory activities of *Matricaria chamomilla* var. *recutita* essential oils from İstanbul and Bursa. Turkey 6th Plant Protection Congress with International Participation, 182, 5-8 September, Konya, Türkiye.
5. **Ertürk S.**, Olçulu M., Alkan M., Goztas R., Taner A. 2016. Eco2Fume® for control of western flower thrips, *Frankliniella occidentalis* (Pergande) on tomatoes and green pepper fruit, at low-temperature storage conditions. XXV International Congress of Entomology, Orlando, Florida, USA, September 25-30, 2016.
6. Atay, T., **Ertürk S.**, Kumlu, B., Alkan M., Duman, A., 2018. Pre-Studies on Insecticidal Effect of Native Diatomaceous Earth against Potato Tuber Moth, [*Phthorimaea operculella* (zeller) (Lepidoptera: Gelechiidae)], Larvae. International Agricultural Science Congress, 09-12 May 2018. Van-Turkey.
7. Toprak U., Bayram Ş., Gözde G., Doğan C., Babaroğlu E N., **Ertürk S.**, Kaydan M. B., Baldwin D., Coutu C., Hegedus D., 2019. Comparative fat body transcriptomics and proteomics from feeding, aestivating and hibernating wheat stink bug, *Aelia rostrata* (Hemiptera: Pentatomidae) adults. 1st International Molecular Plant Protection Congress, 184, 10- 13 April 2019. Adana –Turkey.
8. **Ertürk, S.** 2019. Determination of the Efficacy of Sulfuryl Fluoride against Five Major Storage Pests. II. International Agricultural Congress (UTAK2019), 36, 21-24 November Ankara, Türkiye
9. Koçak E., Schlipalius D., Yılmaz A., Alpkent Y N., **Ertürk S.**, Atış A. E., Coşkun B., 2019. Genetic structure of phosphine resistance and marker development in *Sitophilus* spp. (Coleoptera: Curculionidae) populations in Turkey. 1st International Molecular Plant Protection Congress, April 10-13, Adana, Turkey.



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

11. Toprak U., Bayram Ş., Gözde G., Doğan C., Babaroğlu E N., **Ertürk S.**, Kaydan M. B., Baldwin D., Coutu C., Hegedus D., 2019. Comparative midgut proteomics from feeding and hibernating Sunnpest, *Eurygaster maura* (Hemiptera: Scutelleridae). 1st International Molecular Plant Protection Congress April 10-13, Adana, Turkey.
12. **Ertürk, S.**, Alkan, M. 2020. Efficacy of Sulphuryl Fluoride Against the Almond Moth *Ephesia cautella* (WALKER, 1863) (Lepidoptera: Pyralidae)] in stored dried figs. International Marmara Sciences Congress (Spring), 50, 19-20 June, Körfez, Kocaeli, Türkiye.
13. Akdeniz Fırat T., **Ertürk S.**, Bozkurt B., Ayan E., Kayış E., Ferizli A.G., Emekci E. 2021. Efficacy of Ozone Gas Against Mediterranean Fruit Fly in Cherry Export. 8th Plant Protection Congress with International Participation, August 24-28, Online, 2021
14. Erdoğan P., **Ertürk S.**, 2018. İhraç domateslerde sorun olan Domates güvesi [*Tuta absoluta* Meyrick (Lep.: Gelechiidae)]'ne karşı Fosfin gazının fümigant etkisi. Turkey VII. Plant Protection Congress with International Participation, 186, 14-17 Kasım Muğla, Türkiye
15. Yücel C., Özdemir I., **Ertürk S.**, Coral-Şahin D., 2014. First Record Aphid (Hemiptera: Aphididae) Species in Safflower (*Carthamus tinctorius*). 22. National Biology Congress, 1165, 23-27 June, Eskişehir.
16. Kılıç G E., Özkaya Ö., Alpkent Y N., **Ertürk S.**, Çağırğan, O., 2015. Usage possibilities of *Beauveria bassiana* (Bals.–Criv.) Vuill for control of parasite [*Varroa destructor* Anderson and Trueman (Parasitiformes: Varroidae)] on honeybees. 5th Entomopathogens and Microbial Control Congress 9-11, September, Ankara, Turkey p.83
17. Kepenekci, İ., **Ertürk S.**, Tülek, A., Atay, T., 2015. Efficacy of native entomopathogenic nematodes against flour beetles, *Tribolium castaneum* (Herbst) and *T. confusum* (Jacquelin du Val) (Coleoptera: Tenebrionidae). 5th Entomopathogens and Microbial Control Congress, 9-11 September 2015, Ankara, Turkey, p.109.
18. Atay T., Yanar D., **Ertürk S.**, and Yanar Y. 2017. Efficacy of Entomopathogenic Fungus *Beauveria bassiana* Bals. (Vuill) against Granary Weevil [*Sitophilus granarius* (L.) (Coleoptera: Curculionidae)] under Laboratory Conditions. 6th Entomopathogens and Microbial Control Congress 14-16 September, 2017, Gaziosmanpaşa University, Tokat, Turkey p.72.



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19. Crop Pest Diagnosis (English) v2.0. May 29, 2021. CABI Academy.
20. Insect Life Table, Predation Rate and Computer Simulation. Ömer Halisdemir Üniveristesi, 16-20 January 2017. Ankara, Turkey
21. Training in Publishing Science in English. School of Agriculture Food and Wine, The University of Adelaide. 2-4 April 2017. Ankara, Turkey.
22. Occupational Health and Safety Training of Employees. T.C. Tarım ve Orman Bakanlığı Eğitim Yayım ve Yayınlar Dairesi Başkanlığı 19-20 Mart 2015. Ankara, Türkiye
23. Project Cycle Management and Funding Resources Training, T.C. Gıda Tarım ve Hayvancılık Bakanlığı, 17-28 Aralık 2012. Ankara, Türkiye
24. Membership of Entomological Society of Türkiye
25. Membership of Turkish Chamber of Agricultural Engineering