



TAGEM
R&D AND INNOVATION

PLANT PROTECTION CENTRAL RESEARCH
INSTITUTE/ ANKARA



PELİN AKSU, Ph. D.

Food Engineer

EDUCATION

- Ph. D.** Ege University Graduate School of Natural and Applied Science Food Engineering 2007
- M.Sc.** Ege University Graduate School of Natural and Applied Science Food Engineering 1993-1996
- Bachelor's Degree** Ege University Faculty of Engineering Department of Food Engineering 1998

Foreign Language English KPDS 74

CAREER

- 2005-... Head of Residue Unit, Plant Protection Central Research Institute, Ankara
- 2003-2005 Researcher, Directorate of Plant Protection Central Research Institute, Ankara
- 1999-2003 Ege University Faculty of Engineering, Research Assistant

ABOUT ME

She was born in Ankara in 1976, completed her undergraduate education at Ege University, Faculty of Engineering, Department of Food Engineering in 1998. Then started master's degree in 2001 in the Department of Food Engineering, Department of Food Chemistry at the same university in 1999. In the same year, she completed PhD in the same university and in the same discipline, in 2007. She was appointed to Ege University Food Engineering Department Food Chemistry Department in 1999 with the title of Research Assistant. In January 2003, started working at the Ministry of Agriculture and Forestry, General Directorate of Agricultural Research and Policies, Directorate of Agricultural Protection Central Research Institute/ANKARA. She is currently working as a Unit Supervisor in the Pesticide Residue Unit of the Department of Agrochemicals at the Institute. She is fluent in English.

CONTACT



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▪ **PROJECTS**

▪ **Leader in Nationally Supported Projects**

1. Investigation of the Drying Effect Treatment on Pesticide Residues of Cultivated Mushroom [*Agaricus bisporus* (Lange) Singer author] (TAGEM)
2. Investigation of the Drying Effect of Process on Pesticide Residues in Parsley (*Petroselinum crispum* [Mill.]) and Mint [*Mentha piperita* L.] (TAGEM)
3. Monitoring of pesticide residues with multiple residue analysis method on fresh fruits and vegetables (DPT)
4. Development of multiple residue analysis method with Gas Chromatography/Mass Spectrometer (GC/MS) for the determination of pesticide residues on fruits and vegetables (Ph.D.) (DPT)
5. Investigation of antioxidant activity of rosemary extracts obtained by supercritical CO₂ extraction in sunflower oil (M.Sc. Thesis) (BAP)

▪ **Researcher in Nationally Supported Projects**

1. Determination of the Effect of Processing and Storage on Residue Level of Some Pesticides Used on Peach (TAGEM)
2. Morphological and Molecular Characterization of *Alternaria* spp., which Causes Root and Root Rot in Central Anatolian Carrot, Determination of Toxins and Control Opportunities (TAGEM)
3. Development of a predictive warning model for the control of European Sunn pest [*Eurygaster maura* L.] Hemiptera: Scutelleridae] in the Central Anatolian Region (TAGEM)
4. Investigation of the Control and Reuse of Water Returned from Irrigation in the GAP Region (TUBİTAK)
5. The Effect of Vegetative Filter Strip Application on the Transport of Rimsulfuron and Nicosulfuron Used on Corn with Flash Rainfall (TUBİTAK)
6. A Study on Ozone Reduction of Pesticide Residues (TUBİTAK)
7. Residue Studies in Central Anatolia Region to Determine Maximum Residue Limits of Some Active Substances in Fruits and Vegetables (DPT)

▪ **Researcher in Internationally Supported Projects**

1. Determination of Gas Chromatographic (GC) Conditions in Determination Method of Active Substance Amount of Pesticides (IAEA)



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▪ **PUBLICATIONS**

▪ **Published in International/National Journals**

1. P. Erdogan, **Aksu P.**, G.E. Kılınc, M. Kahyaođlu, Babarođlu E N., 2020. Investigation of formulation preparation of some plant extracts and determination of the effectiveness on *Myzus persicae* [(Sulzer, 1776) (Hem.:Aphididae)]. *Journal of Bacteriology & Mycology*, Volume 8 Issue 1.
2. P. Erdogan, G.E. Kılınc, **Aksu P.**, M. Kahyaođlu, Babarođlu E N., 2019. Investigation of formulation preparation of two plant extracts and determination of the effectiveness on *Tetranychus urticae* Koch.(Arachnida: Tetranychidae). *Horticulture International Journal*, 3(3): 160-164.
3. Veliogđlu Y.S., Cönger E., **Aksu P.**, Ergen-Fikirdeřici ř., Yiđit Baltacı H. M., 2016. The effects of washing with ozonated water on pesticide removal, ascorbic acid and color in tomatoes. *Food Journal*, 41 (5), 337-344.
4. Ergen-Fikirdeřici ř., Veliogđlu Y.S., **Aksu P.**, 2015. Study of Imidacloprid Degradation on Field-treated Tomatoes using Ozonation. *Journal of AgriSearch*, 2 (1), 33-39.
5. Conger E., **Aksu P.**, Yigit N., Dokumacı S., Balogđlu Z., Burçak A. A., 2012. Studies on the determination of residual behavior of some pesticides on vegetables. *Plant Protection Bulletin*, 52 (3), 15p.
6. Altundađ S., Karahan A., Aksu P., 2010. Investigation of antibacterial effect of essential oil on some wheat pathogenic bacteria *Satureja cuneifolia* Ten. *Plant Protection Bulletin*, 50(1): 25-33 p.
7. **Aksu P.**, Hiřıl Y., 2005. Antioxidative Effects of Spices. *Academic Food Journal*, 3 (13), 20-25.

▪ **International Refereed Congress, Symposium Publications**

1. Aktuđ Ü., Fırat T A., **Aksu P.** 2018. Insecticidal Effect of Acıbadem Extract on Some Storage Pests. *International Conference on Agriculture, Forest, Food Sciences and Technologies*, 2-5 April 2018, İzmir-Çeřme.
2. **Aksu P.**, Yılmaz A., Aktuđ Ü., 2018. Nanotechnological Applications in Agricultural Production. *International Conference on Agriculture, Forest, Food Sciences and Technologies*, 2-5 April 2018, İzmir-Çeřme .
3. Aktuđ Ü., Fırat T A., **Aksu P.**, Yılmaz A., 2018. The Impact of Fumigants Used on Agricultural Products in Warehouses. *International Conference on Agriculture, Forest, Food Sciences and Technologies* 2-5 April 2018, İzmir-Çeřme.



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4. Firat T A., **Aksu P.**, Aktuğ Ü., 2017. The Effects of Solid Waste Usage on Stored Product Pests. VIII. International Symposium on Ecology and Environmental Problems.
5. **Aksu P.**, Yigit N., Güdücü H E., 2017. Investigation of the Effect of Drying on Pesticide Residues in Parsley (*Petroselinum crispum* [Mill.]). Central Anatolia Region 3rd Agriculture and Food Congress with International Participation.
6. **Aksu P.**, Cönger E., Yigit N., Dokumacı S., Burçak A.A. 2016. Studies on the determination of residual behavior of some pesticides used in Ankara and Kırıkkale vineyard areas. Turkey with International Participation VI. Plant Protection Congress, 5-8 September 2016, Konya, .
7. **Aksu P.**, 2014. Use of Pesticides, Legal Regulations and Residues in Our Country. Persistent Organic Pollutants* (POPs) Awareness Workshop: Workshop on Residues of Pesticides and POPs in Greenhouses and Other Environmental Environments, 10-12 March 2012, Kuşadası/Aydın.
8. Kahyaoğlu M., **Aksu P.**, 2013. Pesticide use in potato seeds, problems, solutions and residues. Potato Harmful Organisms Symposium, 04-07 November 2013, Ankara.
9. Kansu B., Büyük O., **Aksu P.**, 2011. The determination of mycotoxin producing ability of some endophytic and pathogenic fusarium isolates from wheat samples in Turkey . 4th International Congress on Food and 2nd Mediterranean Workshop on Mycotoxins and Toxigenic Fungi (12-14 October 2011, Istanbul-TURKEY.
10. **Aksu P.**, Kahyaoğlu M., Hışıl Y., 2005. Effect of Adjuvant on Pesticide Residue on Tomatoes. 4th MGPR International Symposium of Pesticides in Food and the Environment in Mediterranean Countries and MGPR Annual Meeting, 21-24 September 2005, Kuşadası-Aydın/TÜRKİYE (oral presentation).
11. Burçak A.A., Delen N., **Aksu P.**, 2003. Detection of some pesticide residues in fresh and dried grapes by chromatographic method. IV. National Chromatography Congress Ankara, 17-19 September 2003. Abstract book (oral presentation), 45.
12. **Aksu P.**, Hışıl Y., 2002. Investigation of Antioxidant Activity of Rosemary Extracts Obtained by Supercritical-CO₂ Extraction in Sunflower Oil. Turkey 7th Food Technology Congress Proceedings, 22-24 May 2002, Ankara (oral presentation), 65-72.
13. Hışıl Y., **Aksu P.**, Demirel N.N., 2002. Analysis of Phenolic Compounds of Olive Black Water by HPLC. Proceedings of the 3rd National Chromatography Congress, 19-21 June 2002, Isparta (oral presentation), 96-105.
14. **Aksu P.**, Hışıl Y., İsfendiyaroğlu M., . Analysis of Volatile Components of Çeşme Mastic Gum by Gas Chromatography/Mass Spectrometer. II. Proceedings of the National Chromatography Congress, 6-8 June 2001, Kırıkkale (oral presentation), 23-34.
15. Güdücü N., **Aksu P.**, Güdücü H E., Recai İ., 2018. The Effect of Column Temperature on Multiple Quality Control Analysis of Pesticides. International Conference on Agriculture, Forest, Food Sciences and Technologies 2-5 April 2018, İzmir-Çeşme.



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16. Gdc H E., Dođan F., Gdc N., **Aksu P.**, 2018. Analysis of Some Metal-Containing Pesticides by Atomic Absorption Spectrophotometer (AAS). International Conference on Agriculture, Forest, Food Sciences and Technologies 2-5 April 2018, İzmİr-Çeşme.
17. Serim A. T., Asav ., Yigit N., **Aksu P.**, Trkseven S., 2018. Effectiveness of various vegetative filter strips in preventing nicosulfuron runoff. International 18th European Weed Research Society Symposium, 21-23 June, Slovenia Ljubljana, (poster presentation). International 18th European Weed Research Society Symposium.
18. Demirz D., **Aksu P.**, Aktuđ ., 2017. Investigation of the Effect of Orange Peel Extract on Peach Aphid [Myzus persicae (Sulzer) (Hemiptera: Aphididae)]. Central Anatolia Region 3rd Agriculture and Food Congress with International Participation.
19. Aydar A., Sabahođlu Y., **Aksu P.**, 2017. Residue Status of Drug Applications in Vineyards. Central Anatolia Region 3rd Agriculture and Food Congress with International Participation, 2017, Sivas.
20. **Aksu P.**, Yigit N., Yılmaz A., 2015. Biocidal Products and Residue. Proceedings of the 2nd National Biocidal Congress with International Participation.
21. Ergen-Fikirdeşici Ş., Altındađ A., Veliođlu Y.S., **Aksu P.**, 2014. The effects of ozone treatment on chlorpyrifos degradation and toxicity. International Conference of Young Scientists Advances in Botany and Ecology, 2014.
22. Yigit N., **Aksu P.**, 2016. The Effect of Drying Process on Herbal Products on Pesticide Residues. Turkey with International Participation VI. Plant Protection Congress, 5-8 September 2016, Konya.
23. Esmer .K., **Aksu P.**, 2005. Some properties and use of PLA (polylactate) as a food packaging material. 1st International Food and Nutrition Congress, Food Safety and Quality through the food chain: Farm to fork, Istanbul, 15-18 June, 2005 (poster statement), .
24. Demirz D., **Aksu P.**, Yılmaz A., 2016. Evaluation of the Resistance of Aphid Populations to Insecticide Mixtures in Vegetable Production Areas. Turkey with International Participation VI. Plant Protection Congress, 5-8 September 2016, Konya.
25. **Aksu P.**, Hışıl Y., 2000. Supercritical-CO2 Extraction of Rosemary. Blacksea and Asian Food Technology Symposium- Food 2000, 12-16 October 2000, Ankara (poster statement).
26. **Aksu P.**, Hışıl Y., 2002. Investigation of Antioxidant Activity of Rosemary Extract obtained by Supercritical-CO2 Extraction in Sunflower oil. 8. Meeting on Supercritical Fluids. 14-17 March 2002, France (poster statement).

▪ **National Refereed Congress, Symposium Publications in Proceedings**



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1. Hişil Y., Burçak A.A., **Aksu P.**, 2003. Chromatographic methods used in the detection of pesticide residues in Turkey. IV. National Chromatography Congress Ankara, 17-19 September 2003. Abstract book (poster statement), 66
2. **Aksu P.**, Hişil Y., 2001. Supercritical Fluid Chromatography. II. Proceedings of the National Chromatography Congress, 6-8 June 2001, Kırıkkale (poster presentation).
3. Yigit N., Bayhan Öktem A. , **Aksu P.**, 2008. Use of High Pressure Liquid Chromatography (HPLC) in Pesticide Residue Analysis in Foods, Turkey 10th Food Technology Congress Proceedings, 21-23 May 2008, Erzurum (poster statement).

- **Other Publications**
- **PhD Thesis , MsC Thesis, Reports, Books etc.**

PhD.

2001-2007

Ege University Engineering Faculty, Food Engineering Department

Thesis name: Development of multiple residue analysis method with Gas Chromatography/Mass Spectrometer (GC/MS) for the determination of pesticide residues on fruits and vegetables

Advisor: Prof. Dr. Yaşar HIŞIL

MsC.

1999-2001

Ege University Engineering Faculty, Food Engineering Department

Thesis name: Investigation of antioxidant activity of rosemary extracts obtained by supercritical CO2 extraction in sunflower oil

Advisor: Prof. Dr. Yaşar HIŞIL

- **Reports**
- **Book Chapter**
- **National Book**



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Kaymak S., Özdem A., Karahan A., Özercan B., **Aksu P.**, Aydar A., Kodan M., Yılmaz A., Başaran M.S., Asav Ü., Erdoğan P., Güler Y., 2015. Evaluation of plant protection input in our country. General Directorate of Agricultural Research and Policies, 83p.

▪ **National Book Chapter**

1. **Aksu P.**, Yiğit N., 2018. Birişik N. (Ed.). Chemical Control from Theory to Practice. Chapter Name: Pesticide Residues. Printed by Matsa, Ankara. Ed.: Birişik N., 336 s, ISB978-605-2207-13-0
2. **Aksu P.**, Doğan F., 2018. Birişik N. (Ed.). Chemical Control from Theory to Practice. Chapter Name: Authorization, Manufacturing, Control, Storage, Transportation, Sale and Disposal of Plant Protection Products. Printed by Matsa, Ankara. Ed.: Birişik N., 336 s, ISB978-605-2207-13-0

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

▪ **Memberships**

1. Plant Protection Bulletin (2015-...)
2. Turkish Entomology Society (2020-...)
5. General Directorate of Food and Control, National Authorization of Plant Protection Products Commission (2005-...)
6. General Directorate of Food and Control, National Codex Commission of Pesticide Residues (2005-...)

Training, Course, Meeting, Workshop, Symposium and Other Activities

1. IPM Training Programme on Plant Health, "Pesticide Residues" IARTC-TİKA, 2010 İzmir.
2. Apple, Pear and Quince IPM, Certified Training, (2010-Continue)
3. Potato Harmful Organisms Symposium, 4-7 November 2013, Ankara
4. TAIEX, Expert mission on placing of Plant Protection Products on the market, EU Commission, 2014, Ankara
5. TAIEX, Expert mission on placing of Plant Protection Products on the market, EU Commission, 2004-2006, Ankara/Turkey, Greece
6. Pesticide Steering Committee Meetings, EFSA, Parma/Italy, 2005-2008
7. TAIEX Workshop on Technical and Scientific Review Procedures and Files For Plant Protection Products, 27 - 30 September, 2021, Webconference
8. Occupational Health and Safety Training of Employees. T.R. Ministry of Agriculture and Forestry, Department of Education Extension and Publications, 2020. Ankara.



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Computer skills

1. Windows OS (Good)
2. Windows Office (Good)

Member Scientific and Professional Organizations

1. Chamber of Food Engineers