



**TAGEM**  
R&D AND INNOVATION

PLANT PROTECTION CENTRAL RESEARCH  
INSTITUTE / ANKARA

## AYNUR KARAHAN, PhD Agricultural Engineer

### EDUCATION

- PhD** Ankara University  
2000-2006 Graduate School of Natural and Applied Sciences
- MSc** Ankara University  
1987-1992 Graduate School of Natural and Applied Sciences
- Bachelor's Degree** Ankara University  
1983-1987 Faculty of Agriculture
- LANGUAGE** English YDS 78

### ABOUT ME

She graduated from Ankara University, Faculty of Agriculture, Department of Plant Protection in 1987; she completed her master's degree in 1992 and Ph.D.'s in 2006 at the Institute of Science of the same university. She has worked on 21 national/international projects related to bacteria and phytoplasmas that cause disease in plants, and she is currently working as a lead/assistant researcher in 10 projects. She has over 60 publications published/presented in journals, congresses, and workshops.

She is a member of the Phytosanitary Risk Assessment Commission and EPPO Panel on Diagnostics in Bacteriology.

### CAREER

- 2022-continued Plant Protection Central Research Institute-ANKARA, Vice Director
- 2011-2022 Plant Protection Central Research Institute-ANKARA, Head of Plant Pathology Department
- 1996-2011 Plant Protection Central Research Institute-ANKARA, Agriculture Engineer
- 1994-1996 Ministry of Interior ANKARA-Civil Servant
- 1993-1994 Ministry of Interior ISTANBUL-Civil Servant

### CONTACT

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- **PROJECTS**

- **Projects Conducted**

1. Epidemiology and diagnosis of potato phytoplasmas and *Candidatus Liberibacter solanacearum* and their contribution to risk management in potato and other crops, (PHYLIB II) (2017-2021, EUPHRESCO-2015-B-115, Project Partner).
2. Interlaboratory test performance study for molecular confirmation of *Ralstonia solanacearum* virulence, (2018-2020, TAGEMAB08, EUPHRESCO 2016-A-180, Project Partner).
3. Detection of *Xylella fastidiosa* and its vectors on different hosts in the Central Anatolia Region and determination of disease control strategies based on risk management-I, (2016-2020, TAGEM, Researcher).
4. Creation of plant pathogenic bacteria, fungi and virus collections and preparations of their catalogues-I, (2015-2018, TAGEM, Project Leader).
5. Coordinated Integrated Pest Management in Europe (C-IPM), (2014-2016, ERA-NET, Researcher).
6. The determination of natural enemies with the detection of disease, pest and weeds in kiwi fruit orchard in Western Black Sea Region, (2014-2016, TAGEM, Project Leader).
7. Investigation of Flavescence dorée and Bois noir phytoplasmas and potential vector species in vineyard areas of central anatolia region, (2013-2016, TAGEM, Researcher).
8. Determination of the Stolbur disease (*Candidatus Phytoplasma solani*), its prevalence and the ratio of transmission to seed in the potato cultivated areas and identification of the vector insects in Middle Anatolia Region, (2013-2016, TAGEM, Project Leader).
9. Epidemiology and diagnosis of potato phytoplasmas and *Candidatus Liberibacter solanacearum* and their contribution to risk management in potato and other crops, (2013-2015, 06-PHYLIB EUPHRESCO, Project Partner).
10. Elimination of viruses and *Agrobacterium vitis* from some grape cultivars, rootstocks and clones (TÜBİTAK 1007) (2008-2012, TÜBİTAK 107G271, Project Leader).
11. Studies on the determination of bacterial diseases and control possibilities in hazelnut (*Corylus avellana L.*) orchards, (2007-2012, TAGEM, Project Leader).
12. Interlaboratory test on detection of *Clavibacter michiganensis* (Smith) Davis et al. subsp. *sepedonicus* (Spieckermann et Kotthoff) Davis et al. and *Ralstonia solanacearum* Yabuchi et al. in potato tubers, (2009-2011, AB EUPHRESCO, Project Leader).
13. Use of bacterial biological control agents against root rot diseases of wheat caused by some fungal pathogens, (2006-2009, TAGEM, Researcher).
14. Ring test on diagnostic methods for *Pantoea stewartii* subsp. *stewartii* (Smith) Mergaert et al. (*Erwinia stewartii* subsp. *stewartii*), (2009-2010, EUPHRESCO, Project Partner).
15. Improving of national seed potato system (support by Turkish Scientific Technical Research Council), (2005-2009, TÜBİTAK 1007, Researcher).
16. Determination of *Streptomyces* species harmful on potatoes in Central Anatolia Region and reactions of major potato cultivars against common species, (2003-2006, TAGEM, Project Leader).
17. Detection of wheat bacterial diseases in Central Anatolia Region, (2001-2004, Foreign Diseases and Weed Science Research Unit-USA, TAGEM-TR, Researcher).



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### ▪ Projects Conducted (continued)

18. Studies on the control of fire blight (*Erwinia amylovora* (Burr.) Winslow et al.) by using forecasting models, (1998-2001, TAGEM, Project Leader).
19. Use of Bio-PCR for detecting seed borne plant pathogenic bacteria, (1998-2001, Foreign Diseases and Weed Science Research Unit-ABD, TAGEM-TR, Researcher).
20. Study on the determination of prevalence of brown rot disease (*Ralstonia solanacearum* (Smith) Yabuuchii et al.) for quarantine purpose at seed potato growing areas in Central Anatolia Region, (1997-1998, TAGEM, Project Leader).
21. Detection of fungal diseases in lentils grown in Ankara and determination of their distribution rates, (1989-1991, AÜ BAP, Researcher).

### ▪ Ongoing Projects

1. Soil-borne pathogens and their control in potato production areas of Central Anatolia Region, (2022-2025, TAGEM, Researcher).
2. Creation of plant pathogenic bacteria, fungi and virus collections and preparations of their catalogues-II, (2021-2025, TAGEM, Project Leader)
3. Epidemiology and diagnosis of potato phytoplasmas and *Candidatus Liberibacter solanacearum* and their contribution to risk management in potato and other crops-(PHYLIB III), (2021-2023, TAGEMAB09, EUPHRESCO 2019-F-310, Project partner).
4. Biocontrol of bacterial cancer pathogen *Pseudomonas syringae* by bacteriophages, (2022-2024, TAGEM-21/AR-GE/09, Researcher).
5. Detection of *Xylella fastidiosa* and its vectors on different hosts in the Central Anatolia Region and determination of disease control strategies based on risk management-II, (2021-2024, TAGEM, Researcher).
6. Application of local biopesticide containing *Bacillus thuringiensis* in the biology and control of Asian walnut moth, *Erschoviella musculana* Erschoff (Lepidoptera: Nolidae), (2021-2024, TÜBİTAK (1001) 1210485, Researcher).
7. Detection of diseases and pests in walnut production areas of Central Anatolia Region, determination of their prevalence and density and their control, (2022-2025, TAGEM, Researcher).
8. Whole genome sequencing and bioinformatics analysis of bacterial disease agents in hazelnut, (2021-2022, TÜBİTAK (1002) 221Z226, Researcher).
9. Agricultural education and sector implementation opportunities, (2021-2022, BAP-AHİLAB.A4.21.002, Researcher).

10. Obtaining pre-basic production material from some hazelnut cultivars by meristem culture, (2019-2022, TAGEM, Researcher).

### ▪ PUBLICATIONS

#### ▪ INTERNATIONAL ARTICLES AND PAPERS

#### ▪ Articles Published in International Journals

1. Karahan, A., Altundag, S., Saracoglu, M., Duman, K., Ozdemir, I., Ozdem, A., Umar, S., Demir Ozden, E. 2022. First report of *Candidatus Liberibacter solanacearum* on carrot and parsley in Turkey. New Disease Reports. 45:e12095. <https://doi.org/10.1002/ndr2.12095>



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### ▪ Articles Published in International Journals (continued)

2. Morca, A.F., Coskan, S., Akbas, B., **Karahan, A.** 2022. First report of alfalfa mosaic virus on *Petroselinum crispum* in Turkey. Journal of Plant Pathology, 104, (881-882). <https://doi.org/10.1007/s42161-022-01082-6>
3. Çakır, E., **Karahan, A.**, Kurbetli, İ. 2019. Involvement of *Colletotrichum coccodes* causing atypical symptoms of potato tubers in Turkey. Journal of Plant Diseases and Protection, 126, (173–176). <https://doi.org/10.1007/s41348-019-00206-y>
4. Loreti, S., Cunty, A., Pucci, N., Chabirand, A., Stefani, E., Abelleira, A., Balestra, G.M., Cornish, D.A., Gaffuri, F., Giovanardi, D., Gottsberger, R.A., Holeva, M., **Karahan, A.**, Karafla, C.D., Mazzaglia, A., Taylor, R., Cruz, L., Lopez, M.M., Vanneste, J.L., Poliakoff, F. 2018. Performance of diagnostic tests for the detection and identification of *Pseudomonas syringae* pv. *actinidiae* (Psa) from woody samples. European Journal of Plant Pathology, 152 (3), (657-676). <https://doi.org/10.1007/s10658-018-1509-5>
5. Altundağ, Ş., **Karahan, A.**, Kılıç, A.O., Ozakman, M. 2009. First report of *Clavibacter michiganensis* subsp. *sepedonicus* causing bacterial ring rot of potato in Turkey. Plant Pathology, Volume 58, Issue 4, Page 794. <https://doi.org/10.1111/j.1365-3059.2009.02034>
6. Postnikova, E., Agarkova, I., Altundağ, Ş., Eskandari, F., Sechler, A., **Karahan, A.**, Vivader, A.K., Schaad, N.W. 2009. *Rathayibacter iranicus* isolated from symptomless wheat seeds in Turkey. Plant Pathology, 58 (4), 796.
7. Ustun, N., Ozakman, M., **Karahan, A.** 2008. First report of bacterial wilt caused by *Ralstonia solanacearum* biovar 2 on tomato in Turkey. Plant Pathology, 57 (4), 773.
8. Ustun, N., Ozakman, M., **Karahan, A.** 2007. Outbreak of *Ralstonia solanacearum* Biovar 2 causing Brown Rot on potato in the Aegean Region of Turkey. Plant Disease, 92 (6), 973.

### ▪ International Papers, Seminars, etc.

1. Duman, K., Atmaca, E., Canpolat, S., Kılıç, A.T., Topal, M., **Karahan, A.** 2022. Determination of resistance of some bean genotypes to common leaf blight (*Xanthomonas axonopodis* pv. *phaseoli*) and bean halo blight (*Pseudomonas syringae* pv. *phaseolicola*) diseases. IV. International Plant Breeding Congress. Plant Breeding for the Future: From Local to Global. Abstract Book, 71 p., 21-25 November 2022, Porto Bello Hotel, Antalya, Türkiye (oral presentation-61).
2. Duman, K., Yağcı, M., Erdoğuş, D., **Karahan, A.** 2022. Biological control of root-knot nematodes "Meloidoayne incognita" by using entomopathogenic bacteria. 8th International Entomopathogens and Microbial Control Congress, 6-8 October 2022, BATEM Congress Center, Antalya, Türkiye (sözlü bildiri).
3. Duman, K., Buyuk, O., Akci, N., Bagceci Erdogmus, S., Seidi Arslan, M., **Karahan, A.** 2022. Preliminary studies on biological control of wheat root rot diseases. 8th International Cereal Nematodes Symposium (ICNS), 26-29 September 2022, Abant, Bolu, Türkiye. (sözlü bildiri).
4. **Karahan, A.**, Saracoglu, M., Demir Ozden, E., Umar, S., Altundag, S., Duman, K. 2021. Studies on occurrence of Stolbur phytoplasma on potato plants and their potential vectors in Eskişehir province. 8. Plant Protection Congress with International Participation, Congress Proceedings, 24-24 August 2021; 230 p. Bolu, Türkiye (online) (oral presentation).
5. **Karahan, A.**, Erdogan, P., Alkan, M., Demir Ozden, E., Altundağ, Ş. 2019. The study on vectors of Stolbur phytoplasma in potato growing areas of Bolu, Kırşehir, Sivas and Yozgat Provinces (Poster). 1st International Molecular Plant Protection Congress. Program and Abstract Book. 51 p., April 10-13, 2019 Adana, Türkiye (poster presentation).
6. Altundağ, Ş., **Karahan, A.**, Özdemir, I., Duman, K., Demir Özden, E., Özdem, A., Saracoglu, M. 2019. Investigation of Flavescence doree and Bois noir phytoplasmas and potential vector species in vineyard areas of Central Anatolia Region. 1st. International Moleculer Plant Protection Congress. Program and Abstract Book. 51 p., April 10-13 2019 Adana, Türkiye (sözlü bildiri).



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### International Papers, Seminars, etc. (continued)

7. Altundağ, Ş., Saracoglu, M., **Karahan, A.**, Özdemir, I., Umar, S., Demir Özden, E., Özdem, A., Duman, K. 2019. Investigation of *Xylella fastidiosa* and its potential vector species in Central Anatolia Region. 1 st. International Molecular Plant Protection Congress. Program and Abstract Book. 76 p. April 10-13, 2019, Adana, Türkiye (oral presentation).
  8. **Karahan, A.**, Altundağ, Ş., Duman, K., Kılınc, A.O. 2018. Monitoring of *Ralstonia solanacearum* on weed, volunteer potato plants, surface water and liquid and solid waste discharges from industrial processing, VII. Plant Protection Congress with International Participation, Proceedings of Abstract, 101 p., 14-17 November 2018, Muğla, Türkiye (oral presentation).
  9. **Karahan, A.**, Altundağ, Ş., Kılınc, A.O. 2018. Determination of the presence of Stolbur's disease in potatoes in Bolu, Kırşehir, Sivas and Yozgat provinces and transmission rate to tuber by Nested PCR. VII. Plant Protection Congress with International Participation, Proceedings of Abstract, 70 p. 14-17 November 2018, Muğla, Türkiye (oral presentation).
  10. **Karahan, A.**, Altundağ, Ş., Duman, K. 2018. First report of *Pseudomonas cichorii* on lettuce in Ankara province. VII. Plant Protection Congress with International Participation, Proceedings of Abstracts, 209 p., 14-17 November 2018, Muğla, Türkiye (poster presentation).
  11. **Karahan, A.**, Altundağ, Ş., Kılıç, A.O. 2016. Fluorescent pseudomonads isolated from hazelnuts cultivated in Northeast Black Sea Region, Turkey. Proceedings of the II. International Workshop on Stone Fruit and Nuts, 21-24 September 2015, İzmir, Turkey, Acta Horticulturae, 1149, 63-68 pp.
  12. Nisbet, C., **Karahan, A.**, Kolber, M., Le Roux-Nio, A.C., Loiseau, M., Ross, S., Jeffries, C.J., 2016. A proficiency test for potato infecting phytoplasmas. 16th Triennial Meeting of the Virology Section of the European Association of Potato Research and 8th Annual Meeting of PVYWide Organization. Proceedings, May 31st-June 3rd 2016, Ljubljana, Slovenia. p.76.
  13. Değirmenci, K., Akbaş, B., **Karahan, A.**, Altundağ, Ş., Güner, Ü., Kılıç, A.O., Ünal, A. 2016. Improving detection methods of some viruses and *Agrobacterium vitis* in grapevine certification system. VI. Plant Protection Congress with International Participation, Proceedings of Abstracts, 5-8 September 2016 Konya, Türkiye. 565 p (oral presentation).
  14. **Karahan, A.**, Kılıç, A.O., Altundağ, Ş., Özcan, T., Duman, K., 2016. Current status of bacterial diseases in kiwifruit orchard in Western Black Sea Region. VI. Plant Protection Congress with International Participation, Proceedings of Abstracts, 5-8 September 2016 Konya, Türkiye. 677 p. (poster presentation).
  15. Güner, Ü., **Karahan, A.** 2014. Determination of virus diseases in potato (*Solanum tuberosum* L.) production areas in Bolu, Sivas and Yozgat provinces. Balkan Agricultural Congress Proceeding Book of Abstracts, <http://agribalkan.org/>, 8-11 September 2014, Edirne, Turkey. 840 p.
- **NATIONAL ARTICLES AND PAPERS**
- **Articles Published in National Journals**
1. **Karahan, A.**, Katırcıoğlu, Y.Z. 2014. Patateste Patojen *Streptomyces* Türlerinin Tanılama Yöntemleri. Selçuk Tarım Bilimleri Dergisi, 1 (2), 80-90.
  2. **Karahan, A.**, Altundağ, Ş., Duran, H., Kılıç, A.O. 2013. Studies on prevalence of hazelnut bacterial blight [*Xanthomonas arboricola* pv. *corylina* (Miller et al.) Vauterin et al.] disease in Black Sea Region. Bitki Koruma Bülteni, 53 (3), 159-174. <https://dergipark.org.tr/tr/pub/bitkorb/issue/3697/48948>



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3. **Karahan, A.**, Ozakman, M., Altundağ, Ş. 2013. Studies on the use of prediction models for assessing infection risk days of fire blight disease [*Erwinia amylovora* (Burrill) Winslow et al.] in apple and pear orchards in Ankara and Tokat. Bitki Koruma Bülteni, 53 (4), 207-238. <https://dergipark.org.tr/tr/pub/bitkorb/issue/3698/48958>
  4. Altundağ, Ş., **Karahan, A.**, Aksu, P. 2010. . Investigation of antibacterial effect of *Satureja cuneifolia* Ten. essential oil on some wheat pathogenic bacteria under in vitro conditions. Bitki Koruma Bülteni, 50 (1), 25-33. <https://dergipark.org.tr/tr/pub/bitkorb/issue/3683/48827>
  5. **Karahan, A.**, Katırcioğlu, Y.Z. 1993. Occurrence and distribution of fungal diseases on lentil in Ankara province. Journal of Turkish Phytopathology, 22 (1), 27-33.
- **National Papers, Seminars, etc.**
1. **Karahan, A.** 2017. Carrot bacterial diseases (speaker). 1. Carrot Symposium, 8 May 2017, Mustafa Cankara Kültür ve Kongre Merkezi, Beypazarı, Ankara, Türkiye.
  2. **Karahan, A.**, Katırcioğlu, Y.Z. 2014. Comparison of pathogenicity tests methods of *Streptomyces scabiei* corrig. (ex Thaxter 1891) Lambert and Loria strains and determination of Nec 1 virulence gene with PCR. Türkiye V. Bitki Koruma Kongresi Bildirileri, 3-5 Şubat 2014, Antalya, p.188, (FS18).
  3. **Karahan, A.**, Altundağ, Ş., Kılıç, A.O. 2014. Detection of occurrence of *Pseudomonas syringae* pv. *mori* (Boyer and Lambert) Young et al. on mulberry in Giresun province (Poster). Türkiye V. Bitki Koruma Kongresi Bildirileri, 3-5 Şubat 2014, Antalya, p.222, (FP11).
  4. Altundağ, Ş., **Karahan, A.**, Kılıç, A.O. 2014. Detection of *Clavibacter michiganensis* subsp. *sepedonicus* (Spieckermann and Kotthof) Davis et al from potato tuber extract by multiplex PCR. Türkiye V. Bitki Koruma Kongresi bildirileri, 3-5 Şubat 2014 Antalya, p.195, (FS25).
  5. Kaymak, S., Özdem, A., **Karahan, A.**, 2014. Plant health and microbial fertilizers. Proceedings of Microbial Fertilizer Workshop, 23-24 October 2014, İlgaz, Çankırı, Türkiye, 69-73.
  6. **Karahan, A.**, Altundağ, Ş., Kılıç, A.O. 2013. Detection with multiplex-PCR of quarantine pathogen, *Ralstonia solanacearum* (Smith) Yabuchi et al from potato tubers. Proceedings of Potato Harmful Organisms Symposium, 4-7 November 2013, Ankara, Türkiye, 16 p.
  7. Altundağ, Ş., Kılıç, A.O., **Karahan, A.** 2013. Monitoring of brown rot and ring rot diseases in seed potatoes. Proceedings of Potato Harmful Organisms Symposium, 4-7 November 2013, Ankara, Türkiye, p.39.
  8. **Karahan, A.**, Araz, A., Aşkın, A., Altundağ, Ş. 2011. Determination of biocontrol activities of some non pathogen Fluorescent *Pseudomonas* spp. against root and crown rot diseases of wheat caused by *Fusarium culmorum* [(W.G. Smith.) Sacc.] in in vitro and in vivo conditions (poster presentation). Proceedings of Türkiye IV. Plant Protection Congress, 28-30 June 2011, Kahramanmaraş, Türkiye, 475 p.
  9. **Karahan, A.**, Altundağ, Ş., Kılıç, A.O. Duran, H. 2011. Studies on prevalence of hazelnut bacterial blight [*Xanthomonas arboricola* pv. *corylina* (Miller et al.) Dye] disease in west Black Sea region (oral presentation). Proceedings of Türkiye IV. Plant Protection Congress, 28-30 June 2011, Kahramanmaraş, Türkiye, 63 p.
  10. Araz, A., Aşkın, A., **Karahan, A.** 2010. Determination of biocontrol activities of the *Bacillus* spp against root rot diseases of wheat caused by *Fusarium culmorum* (W.G. Smith.) Sacc. in in vitro conditions (poster presentation). Türkiye IV. Organic Agriculture Symposium, 28 June - 1 July 2010, Erzurum, Türkiye, 403-406.
  11. **Karahan, A.**, Altundağ, Ş. 2009. Occurrence of *Ralstonia solanacearum* and *Clavibacter michiganensis* subsp. *sepedonicus* in seed potato growing areas and taken quarantine measures (oral presentation). Proceedings of Türkiye III. Plant Protection Congress, 15-18 June 2009, Van, Türkiye, 158 p.



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### ▪ National Papers, Seminars, etc. (continued)

12. Üstün, N., Özakman, M., **Karahan, A.** 2007. Prevalence of *Ralstonia solanacearum* in potato and tomato growing areas of Aegean Region of Turkey and applied quarantine measures (oral presentation). Proceedings of Türkiye II. Plant Protection Congress, 27-29 August 2007, Isparta, Türkiye, 102 p.
13. **Karahan, A.**, Özakman, M., Altundağ, Ş. 2007. Studies on occurrence of bacterial brown rot and ring rot diseases on seed potatoes. Proceedings of Türkiye II. Plant Protection Congress, 27-29 August 2007, Isparta, Türkiye, p.101.
14. Altundağ, Ş., Ozakman, M., **Karahan, A.** 2007. A new bacteria on wheat growing areas in Central Anatolia Region: *Rathayibacter iranicus* (oral presentation). Proceedings of Türkiye II. Plant Protection Congress, 27-29 August 2007, Isparta, Türkiye, p.107.
15. Özakman, M., **Karahan, A.**, Altundağ, Ş. 2006. A new method for the detection of *Ralstonia solanacearum* from potato tubers: Real-time Bio-PCR. Proceedings of IV. National Potato Congress, 6-8 September 2006, Niğde, Türkiye.
16. **Karahan, A.**, Katırcioğlu, Y.Z. 2006. Using potato mini tubers for pathogenicity of *Streptomyces* species (oral presentation). Proceedings of IV. National Potato Congress, 6-8 September 2006, Niğde, Türkiye.
17. Altundağ, Ş., **Karahan, A.**, Ozakman, M. 2006. Innovations brought by the potato control directives harmonized in the European Union candidacy process. Proceedings of IV. National Potato Congress, 6-8 September 2006, Niğde, Türkiye, p.238.
18. Özakman, M., **Karahan, A.**, 2005. Developments in plant health in the EU candidacy process (oral presentation). Proceedings of Türkiye II. Seed Congress, 9-11 November 2005, Adana, Türkiye, 278-282.
19. **Karahan, A.**, Özakman, M. 2005. Importance of Pest Risk Analysis in Quarantine and studies on this subject (oral presentation). Proceedings of Türkiye II. Seed Congress, 9-11 November 2005, Adana, Türkiye, 283-291.
20. Özakman, M., **Karahan, A.**, Altundağ, Ş. 1998. Studies on the prevalence of Bacterial brown rot (*Ralstonia solanacearum* (Smith) Yabuuchi et al.) on potatoes. Proceedings of Türkiye VIII. Phytopathology Congress, 21-25 September 1998, Ankara, Türkiye, 380-383.

### ▪ OTHER PUBLICATIONS

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

1. **Karahan, A.** 2006. Determination of *Streptomyces* species harmful on potatoes in central anatolia region and reactions of major potato cultivars against common species, **Ph.D. Thesis**, Ankara University, Graduate School of Natural and Applied Sciences, Department of Plant Protection, 100 pp.
2. **Karahan, A.** 1991. Occurrence and distribution of fungal diseases on lentils in Ankara province. **Master Thesis**, Ankara University, Graduate School of Natural and Applied Sciences, 59 pp.
3. **Karahan, A.**, Saracoğlu, M., Duman, K. 2022. Maize Bacterial Diseases (In: Corn; Breeding Techniques. Ed: Cengiz, R. 758 s.), 297-314 s.İksad Yayınevi, Ankara, Türkiye. ISBN: 978-625-8377-26-2
4. **Karahan, A.**, 2019. Bacterial Blight of Hazelnut (*Xanthomonas arboricola* pv. *corylina*), 211-218. (In: Plant Bacterial Diseases, Eds: Saygılı, H., Aysan, Y., Şahin, F., Soylu, S., Mirik, M.). 2nd Edition, Toprak Ofset Mat. Hiz., Süleymanpaşa, Tekirdağ, 382 pp. ISBN 978-6054-2655-4-1
5. **Karahan, A.**, 2019. Common scab (*Streptomyces* spp.), 205-210. (In: Plant Bacterial Diseases, Eds: Saygılı, H., Aysan, Y., Şahin, F., Soylu, S., Mirik, M.). 2nd Edition, Toprak Ofset Mat. Hiz., Süleymanpaşa, Tekirdağ, 382 pp. ISBN 978-6054-2655-4-1



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6. Özdem, A., **Karahan, A.**, 2018. Chemical Control in Türkiye and in World. (In: Chemical Control from Theory to Pratique. Ed: Birişik, N. 336 pp.), 1. Edition, Matsa Basımevi, Yenimahalle, Ankara, 49-69 p. ISBN 978-605-2207-13-0
7. 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 Inputs in Türkiye. Zirai Mücadele Merkez Araştırma Enstitüsü Yayınları, 83 pp. ISBN: 978-605-9175-33-3
8. Erdoğan, P., Erdoğuş, F.D., **Karahan, A.**, Çakır, E., Değirmenci, K., 2015. Controlling potato pests and diseases. Ziraat Odaları, Türk Çiftçisinin Sesi, 76, 14.
9. **Karahan, A.**, Üstün, N., 2014. Fire Blight in Pome Fruit (*Erwinia amylovora*). (Ed. Gökçe, A.Y.), Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü, 176 pp. ISBN: 978-605-4672-84-4
10. **Karahan, A.**, 2008. Hazelnut Bacterial Blight (*Xanthomonas arboricola* pv. *corylina*), 157-159. (In: Plant Bacterial Diseases, Ed: Saygılı, H., Şahin, F., Aysan, Y.). 1st Edition, Meta Basım Mat. Hiz., Bornova, İzmir, 317 pp. ISBN 978-9944-5882-1-8
11. **Karahan A.**, 2008. Common scab disease (*Streptomyces scabies*), 141-143. (In: Plant Bacterial Diseases, Ed: Saygılı, H., Şahin, F., Aysan, Y.). 1st Edition, Meta Basım Mat. Hiz., Bornova, İzmir, 317 pp. ISBN 978-9944-5882-1-8
12. **Karahan A.**, 2005. Plant Quarantine, 286-289. (In: Book of Plant Quarantine, Considerations for Agricultural Control in Seed and Sapling Purchases, Ed: Er, H., Zeki, C.). TKB Teşkilatlanma ve Destekleme Genel Müdürlüğü, Yayımla Dairesi Başkanlığı Yayınları (YAYÇEP), Yayın Seri No: 44, Ankara.

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

▪ **Membership**

1. Plant Protection Bulletin, Editor in Chief (2022-continued)
2. Plant Protection Bulletin, Senior Editor (2011-2022)
3. Türkiye Phytopathology Society, Member (1996-continued)
4. Commission of Risk Evaluation on Plant Health (2021-continued)
5. Commission of Risk Evaluation on Plant Health (2017-2019)
6. EPPO Panel on Diagnostics in Bacteriology (2015-continued).
7. EPPO Panel on Development of Pest Risk Analysis (2006-2011)

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

1. Seed for Future, 2022 TSÜAB International Workshop on Seed, 22-25 December 2022, Antalya, Türkiye
2. BTSF EU Course on “Risk Assessment of Microorganisms used as Pesticides or Biocides”, 30 May-3 June 2022, Better Training for Safer Food, BTSF Academy, Webconference.
3. EFSA Plant Health Panel, 30 31 March 2022, Webconference.
4. EPPO Panel on Diagnostic Bacteriology (24. Meeting), 25-27 January 2022, Webconference.
5. VIII. Plant Protection Congress with International Participation, 24-24 August 2021, Webconference.
6. ‘Threat for Turkey: *Xylella fastidiosa*’ Workshop, 6 October 2021, Webconference.
7. EUPHRESCO, PHYLIB III Project Meeting, 18 October 2021, Webconference.
8. TAIEX Workshop on “Technical and Scientific Review Procedures and Files For Plant Protection Products”, 27 - 30 September, 2021, Webconference.



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**TAGEM**  
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### ■ **Training, Course, Meeting, Congress, Symposium and Other Activities (continued)**

9. EFSA Network on Risk Assessment in Plant Health (16. Meeting), 2-3 December 2020, Webconference.
10. EFSA High Risk Plants-How does the EU carry out risk assessment of plant commodities?, 26 June 2020, Webinar.
11. MACS G20 "International Workshop on Facilitating International Research Collaboration on Transboundary Plant Pests", 27-29 November, 2019, Tsukuba, Japonya.
12. New Approaches on Soil-Borne Pathogens Workshop with International Participation, 15 December 2021, Webconference
13. Workshop on Essential DNA Sequence Alignment with free Web-based software for molecular analysis, diagnostics, and species delimitation, (3 days), ZMMAE, Ankara, Türkiye, 2019
14. First International Molecular Plant Protection Congress, April 10-13, 2019, Adana, Turkey
15. VII. Plant Protection Congress with International Participation, 14-17 November 2018, Muğla, Türkiye
16. Publishing Biology Course, (5 days), ZMMAE, Ankara, Türkiye, 2017
17. EUPRESCO PHYLIB II Project Meeting, 27-28 April 2017, Bologna, Italy.
18. Türkiye VI. Plant Protection Congress with International Participation, 5-8 September 2016 Konya, Türkiye
19. II. International Workshop on Stone Fruit and Nuts, 21-24 September 2015, İzmir, Türkiye
20. Primer design for PCR based detection and diagnostics using Web-software, ZMMAE, Ankara, Türkiye, 2014
21. Eupresco PHYLIB I End of Project Meeting, 1-2 October 2014, SASA, Edinburgh, UK
22. Türkiye V. Plant Protection Congress, 3-5 February 2014, Antalya, Türkiye
23. Training on detection of phytoplasmas and viroids using molecular methods, (Plant Protection Service, The Netherlands), (5 days), Wageningen, The Netherlands, 2013
24. Potato Harmful Organisms Symposium, 4-7 November 2013, Ankara, Türkiye
25. Eupresco PHYLIB I meeting, 20-21 February 2013, Tenerife, Canary Island.
26. Training on The Fundamentals of Risk Analysis for Plant Protection (APHIS, PERAL), (10 days), Raleigh, ABD, 2011
27. IV. Plant Protection Congress, 28-30 June 2011, Kahramanmaraş, Türkiye
28. Türkiye III. Plant Protection Congress, 15-18 July 2009, Van, Türkiye
29. Training on potato seed certification, (5 days), Brest, France, 2008
30. Türkiye II. Plant Protection Congress, 27-29 August 2007, Isparta, Türkiye
31. Workshop on the use of Realtime Bio-PCR for detecting brown rot and ring rot bacteria on potatoes (Cooperation with USDA and ZMMAE, Ankara), (5 days), Ankara, Türkiye, 2006
32. IV. National Potato Congress, 6-8 September 2006, Niğde, Türkiye
33. Türkiye II. Seed Congress, 9-11 November 2005, Adana, Türkiye
34. Training on detection and identification of potato bacterial diseases, (Plant Protection Service, The Netherlands), (10 gün), Wageningen, The Netherlands, 2004
35. Training on Project Cycle Management, (Tarım ve Orman Bakanlığı), (3 days), Ankara, Türkiye, 2003
36. Training on Registration of Producers and Importers (AB, TAIEX), (2 days), Ankara, Türkiye, 2003



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**TAGEM**  
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### ■ **Training, Course, Meeting, Congress, Symposium and Other Activities (continued)**

37. Training on Control of Harmful Organisms (AB, TAIEX), (2 days), Ankara, Türkiye, 2003
38. Training on Biosafety and Biotechnology, TAGEM (10 days), Antalya, Türkiye, 2002
39. Detection of Bacterial and Viral Pathogens from Seed Using Serological (IFAS) and Molecular (PCR) Methods, International Workshop (3 days), Ege University, TOTEM, İzmir, Türkiye, 2002
40. Training on Plant Passports (AB, TAIEX), (2 days), Ankara, Türkiye, 2003
41. Seminar on Standard Sampling and Laboratory Procedures (AB, TAIEX), (2 days), York, UK, 2002
42. Workshop on Pest Risk Analysis (AB, TAIEX) (2 days), York, UK, 2002
43. Training on Integrated Control, (TAGEM), (5 days), Adana, Türkiye, 2001
44. Workshop on Use of BIO-PCR for Detecting Seed-Borne Bacteria (Cooperation with USDA and ZMMAE, Ankara), (8 days), Ankara, Türkiye, 1999
45. VIII. International Workshop on Fire Blight, Kuşadası, Turkey, 1998
46. Türkiye VIII. Phytopathology Congress, 21-25 September 1998, Ankara, Türkiye