



**TAGEM**  
R&D AND INNOVATION

WESTERN MEDITERRANEAN AGRICULTURAL  
RESEARCH INSTITUTE/ ANTALYA



## GÜLSÜM UYSAL

### Agricultural Engineer

#### EDUCATION

- Assoc. prof**
- PhD** 2020-Devam Akdeniz University  
Plant Protection
- MSc** 2018-2019 University of Reading (UK)  
2013-2015 Süleyman Demirel University
- Bachelor's Degree** 2009-2013 Süleyman Demirel University  
Faculty of Agriculture
- LANGUAGE** İngilizce YÖKDİL 76 / EILTS 6.0

#### CAREER

- 2020-.. Mühendis, Batı Akdeniz Tarımsal Araştırmalar Enstitüsü  
Müdürlüğü- ANTALYA

#### ABOUT ME


I was born in 1990 in Serik. In 2013, I graduated from Süleyman Demirel University, Faculty of Agriculture. I continued my Master's Degree on Root-Knot Nematodes in 2015 and continued her professional education on biological control of root-knot nematodes at Reading University School of Agriculture and Development Institute in the United Kingdom in 2019.

I continue to work on plant parasitic nematodes, resistance and biotechnical and biological control in the field of Nematology in the Department of Plant Health, where have been working as a researcher since 2020.

#### CONTACT

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### ▪ **PROJECTS**

#### ▪ **Projects Conducted**

1. Identification of Root-Knot Nematode (*Meloidogyne* spp.) Species in Vegetable Growing Areas of Lakes Region and Investigation of Their Virulence Reaction towards Mi Gene in Tomato. (2014-2015, BAP, 4171-YL2-14, Associate Researcher)

#### ▪ **Ongoing Projects**

1. Isolation and Identification of Nematode Trap Fungi from Soils of the Western Mediterranean Region and Their Possibilities to Use as Bionematicides Against Root-Knot Nematode *Meloidogyne incognita* (2022-2024, TÜBİTAK, 221O399, Associate Researcher)
2. Identification of Root-knot Nematodes (*Meloidogyne* spp.) in Eggplant and Pepper Production Areas in Antalya Province and Determination of Resistance of Some Eggplant and Pepper Genotypes (2021-2023, TAGEM, Associate Researcher)

### ▪ **PUBLICATIONS**

#### ▪ **INTERNATIONAL ARTICLES AND PAPERS**

#### ▪ **Articles Published in International Journals**

1. Ataş, H., UYSAL, G., Gözel, Ç., Özalp, T., Gözel, U., Devran, Z. (2021). First report of root-knot nematode, *Meloidogyne incognita* on calendula in Turkey. Journal of Nematology, DOI: 10.21307/jofnem-2021-041.
2. UYSAL, G., Söğüt, M.A., Elekciöglu H. İ. (2017). Identification and distribution of root-knot nematode species (*Meloidogyne* spp.) in vegetable growing areas of Lakes Region in Turkey. Turkish Journal of Entomology, 41(1):105-122.



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### International Papers, Seminars, etc.

1. Aslan A., UYSAL, G. 2021. Population Fluctuation of Second Stage Juvenile of *Meloidogyne incognita* in Greenhouse Conditions of the Western Mediterranean Region. 8th Plant Protection Congress with International Participation, 25-26 August 2021, Bolu, Turkey (Online).
2. UYSAL, G., Pembroke, B., Murdoch, A., 2019. The effect of applications of the biological control organism, *Bacillus firmus* strain I-1582, on Northern root-knot nematode, *Meloidogyne hapla*, on tomato. AAB Advances in Nematology 10 December 2019, Science & Advice for Scottish Agriculture (SASA), Edinburgh, UK.
3. UYSAL, G., Göze Özdemir F.G., 2018. Host reaction of the Northern Root-knot nematode (*Meloidogyne hapla*) on two different tomato cultivars in Turkey. AAB Advances in Nematology 11 December 2018, Linnean Society of London, Piccadilly, UK.
4. UYSAL, G., Söğüt, M.A., 2016. Determination of the Mi-1 virulent populations of *Meloidogyne incognita* and *Meloidogyne javanica* in Lakes region. 6th Plant Protection Congress with International Participation, September 2016, Konya, Turkey.
5. UYSAL, G., Söğüt, M.A., 2016. Distribution and Characterization of Root-knot Nematode Species (*Meloidogyne* spp.) in Vegetable Areas of Lakes Region. 6th Plant Protection Congress with International Participation, September 2016, Konya, Turkey.
6. Göze, F.G. Söğüt, M.A., Kaya, Y., Kılıç, Ş., UYSAL, G., Arıcı, Ş.E., 2015. The effect of *Purpureocillium lilacinum* strain 251 in the different application time to control *Meloidogyne incognita* on tomato. V. Entomopathogens and Microbial Control Congress, 9-11 September 2015, Ankara- Turkey, p: 98.
7. Söğüt, M.A., Göze, F.G., Kaya, Y., Kılıç, Ş., UYSAL, G., Arıcı, Ş.E., 2015. Combinin the different appliation efficacy of *Purpureocillium lilacinum* 251 and Fluopyram to supress *Meloidogyne incognita* under the controlled conditions on tomato. V. Entomopathogens and Microbial Control Congress, 9-11 September 2015, Ankara- Turkey, p: 97.
8. UYSAL. G., Göze, F. G., Söğüt. M. A., 2015. Identification and Incidence of Plant Parasitic Nematodes at Vegetable Production Areas in Lakes Region of Turkey. XVIII. International Plant Protection Congress. 24-27 August 2015 Berlin. Germany. p.248.
9. Söğüt. M. A., Göze, F. G., UYSAL. G., Bozdoğan. V., Aksoy. A. 2015. Efficacy of Velum Prime® SC 400 in cucumber and tomatoes against *Meloidogyne incognita* in Turkey. XVIII. International Plant Protection Congress. 24-27 August 2015 Berlin. Germany. p.465.



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### ▪ **OTHER PUBLICATIONS**

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

1. Biological Control of Northern Root-Knot Nematode *Meloidogyne hapla* by *Bacillus firmus* on Tomato. (Master Thesis, University of Reading, UK).
2. Identification Of Root-Knot Nematode (*Meloidogyne* spp.) Species in Vegetable Growing Areas of Lakes Region and Investigation of Their Virulence Reaction towards Mi Gene in Tomato. (Master Thesis, Süleyman Demirel University).

#### ▪ **NATIONAL ARTICLES AND PAPERS**

##### ▪ **Articles Published in National Journals**

- Mıstanođlu, İ., UYSAL, G. ve Devran, Z. (2021). Mode of Action of Nematicides Used in the Management of Plant Parasitic Nematodes. Bursa Uludag Üniv. Ziraat Fak. Derg., 35(2), 483-498.
- UYSAL, G., Mıstanođlu, İ., Koca, M. ve Devran, Z. (2021). Bionematicides used in the control of plant parasitic nematodes. Turkish Journal of Biological Control, 12(2), 141-156.
- UYSAL G., Göze Özdemir, F. G. (2020). Bacteria in The Management of Plant Parasitic Nematodes. Turkish Journal of Scientific Reviews, 13, 53-72.
- Göze Özdemir, F. G., UYSAL G. (2018). Product Management Strategies of Nematode Resistant Genes Efficiency and Durability. Turkish Journal of Scientific Reviews, 11, 33-40.
- Göze Özdemir F.G., UYSAL, G. (2018). Reaction of different inoculation of *Meloidogyne incognita* race 2 on some resistance pepper lines. Ege Univ. Ziraat Fak. Derg., 55(2):161-170.
- Göze Özdemir F.G., UYSAL, G. (2017). Pathogenicity of *Meloidogyne javanica* race 1 isolates on some Pepper Gene Sources Resistant to Nematodes. Süleyman Demirel University Journal of Natural and Applied Sciences. 22(1):272-282.

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

- F.G., Göze, G., UYSAL, M.A., Söğüt, A., Kara, 2014. Determination of Plant Parasitic Nematodes in Subtropical Orchards in Antalya Serik District. P. 990. 22nd National Biology Congress, 23-27 June 2014, Eskişehir Osmangazi University, Eskişehir, Türkiye, s. 1540.
- F.G., Göze, A., Kara, M.A., Söğüt, G., UYSAL, 2014 Determination of Nematicidal Activities of Some Vegetable Oils Against *Meloidogyne incognita*. P. 505. 22nd National Biology Congress, 23-27 June 2014, Eskişehir Osmangazi University, Eskişehir, Türkiye, s. 1540.



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

1. Primer design for PCR based diagnostic using WEB-Software. Ankara Zirai Mücadele Araştırma Enstitüsü, June, 09-13, 2014. ANKARA – TURKEY.
2. Past, Present and Future of Potato Cyst Nematodes in Potato Growing in Turkey Workshop (Online) 22.03.2022.
3. New Approaches in the Control of Soil-Borne Pathogens Workshop with International Participation (Online) 15.12.2021.
4. Friendly Microorganisms in Plant Health Workshop 9–10 Eylül 2020, Ankara (Online).
5. AAB Advances in Nematology 10 December 2019, Science & Advice for Scottish Agriculture (SASA), Edinburgh, UK.
6. 5th Symposium of Potato Cyst Nematode Management 2019. 10-11 September in Harper Adams University, United Kingdom.
7. AAB Advances in Nematology 11 December 2018, Linnean Society of London, Piccadilly, United Kingdom.
8. 6th Plant Protection Congress with International Participation, 5-8 Eylül 2016, Konya, Türkiye.
9. XVIII. International Plant Protection Congress. 24-27 August 2015 Berlin, Germany.