



**TAGEM**  
R&D AND INNOVATION

WESTERN MEDITERRANEAN AGRICULTURAL  
RESEARCH INSTITUTE / ANTALYA

## GÖRKEM SÜLÜ, MSc Biologist

### EDUCATION

- Assoc. prof**
  - PhD** 2018- Akdeniz University  
Dept. of Horticulture
  - MSc** 2015-2017 Cukurova University  
Dept. of Biotechnology
  - Bachelor's Degree** 2004-2008 Adnan Menderes University  
Faculty of Science and Literature  
Dept. of Biology
- LANGUAGE** English, YÖKDİL: 72,50

### CAREER

- 2011- Biologist (MSc)., Bati Akdeniz Agricultural  
Research Institute ANTALYA


### ABOUT ME

I was born in 1985 in Çanakkale. In 2008, I graduated from Adnan Menderes University, Faculty of Science and Literature, Dept. of Biology.

I have been working on resistance to biotic stress factors, new techniques for determining resistance, molecular plant breeding and molecular methods for identifying plant pathogens since 2011.

I have taken part in studies involving biotechnological and phytopathological issues, including many different projects supported by TUBITAK and European Union (EU).

### CONTACT

 Aksu BATEM Campus, Antalya-Aksu main road, 22 km., Opposite the Expo 2016, Plant Health Department, Aksu/ANTALYA/TURKIYE

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# GÖRKEM SÜLÜ

## Biologist



### ▪ **PROJECTS**

#### ▪ **Projects Conducted**

1. Improvement of Qualified Genitors for Pepper Breeding Programs and Seed Technology Project (2015-2019, TAGEM, Co-Researcher)
2. Determination of Genetic diversity of mutant Yerli Mandarin, Antalya Yerli Yuvarlak Lemon individuals and some lemon and mandarin varieties using SSCP, SSR and ISSR markers (2014-2016, TUBITAK 1002, TOVAG 1140881, Leader)
3. Identification of Grey Mold Disease (*Botrytis cinerea*) Isolates From Greenhouse Peppers to Fungicides Resistance and Genetic Differences by Using Molecular Markers, Determination of Reactions of Some Breeding Materials in BATEM Gene Pool Against Pathogens (2014-2016, TAGEM, Co-Researcher)
4. Detection of Bacterial Pathogens in Pomagranate Orchards in Antalya Province and Determination of Their Control Possibilities (2013-2016, TAGEM, Co-Researcher)

#### ▪ **Ongoing Projects**

1. Smart Agricultural Practices in Optimization Against Climate Change (2022-2024, TÜBİTAK-PRIMA, Co-Researcher)
2. Development of an applicable and transferable a new somatic hybridization protocol by using electrofusion technique to advance eggplant (*Solanum melongena* L.) breeding programs (2021-2023, TÜBİTAK-1001, Co-Researcher)
3. QTL mapping of resistance to *Botrytis cinerea* in the F1 population in grape (2020-2023, TÜBİTAK-COST, Co-Researcher)
4. Genomic selection of genotypes in the eggplant gene pool based on some morphological, biochemical and biotic characters (2020-2023, TAGEM, Leader)
5. Rapid Detection of *Trichoderma aggressivum* f.*europaeum* and *Trichoderma aggressivum* f. *aggressivum* Strains Causing Green Mold Disease in Mushroom Production from Compost and Soil with Multiplex Real-time PCR (2020-2022, TAGEM, Leader)
6. QTL Mapping of Resistance of F1 Carnation Population to *Fusarium oxysporum* f.sp. *dianthi* Race 2 and Development of Local Resistant Varieties (2019-2022, TÜBİTAK 1001, Co-Researcher)
7. Giving Resistance to Kahramankazan Melon Against Fusarium Wilt (2019-2022, TAGEM, Co-Researcher)
8. Linking genetic resources, genomes and phenotypes of Solanaceous crops (2016-2022, Horizon-2020, Co-Researcher)



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## Biologist

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### ▪ **PUBLICATIONS**

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

#### ▪ **Articles Published in International Journals (*Original Articles (SCI)*)**

1. SULU G., Polat I., Boyaci H.F., Yildirim A., Gümrükcü E. (2022). Screening and validation of three molecular markers for disease resistance in eggplant. *Czech J. Genet. Plant Breed.*, 58: 83–92.
2. Aydoğdu, M., Kurbetli, İ., SÜLÜ, G. (2022). Occurrence of Charcoal Rot in Globe Artichoke and Assessment of Inoculation Techniques for Pathogenicity and Management. *Brazilian Archives of Biology and Technology*. 65. <https://doi.org/10.1590/1678-4324-2022210254>
3. Aydoğdu, M., Sülü, S.M., Kurbetli, İ., SÜLÜ, G. (2021). In vitro and in vivo biological control of the green mold using different bacteria in button mushroom cultivation. *Egyptian Journal of Biological Pest Control*. 31:70 <https://doi.org/10.1186/s41938-021-00401-w>.
4. SÜLÜ, G., Kacar, Y., Polat, İ., Kitapçı, A., Turgutoğlu, E. (2020). Identification of genetic diversity among mutant lemon and mandarin varieties using different molecular markers. *Turkish J. of Agric.* 44: 465-478. doi:10.3906/tar-1909-67
5. Kurbetli, İ., Aydoğdu, M., SÜLÜ, G., Woodward, S., Demirci, F. (2020). A potential role for *Botryosphaeria parva* (Anamorph Neofusicoccum parvum) in plane tree (*Platanus orientalis*) decline in İstanbul, Turkey. *Forest Pathology*. 50: (6) 1-8 DOI: 10.1111/efp.12653
6. İ, Kurbetli., G, Karaca., M, Aydoğdu., SÜLÜ, G. (2020). Phytophthora Species Causing Root and Collar Rot of Pomegranate in Turkey. *European Journal of Plant Pathology*. 157, 485-496.
7. Aydoğdu.M., Kurbetli. İ., Kitapçı. A., SÜLÜ, G. (2020). Aggressiveness of green mould on cultivated mushroom (*Agaricus bisporus*) in Turkey. *Journal of Plant Diseases and Protection*. 127 (5), 695-708.
8. Polat, İ., Baysal, Ö., Mercati, F., Gümrükcü, E., SÜLÜ, G., Kitapçı, A., Araniti, F., Carimi, F. (2018). Characterization of *Botrytis cinerea* isolates collected on pepper in Southern Turkey by using molecular markers, fungicide resistance genes and virulence assay. *Infection, genetics and evolution*. 60:151-159. doi: 10.1016/j.meegid.2018.02.019.
9. Polat, I., Baysal, O., Gumrukcu, E., SÜLÜ, G., Kitapci, A., Ozalp, R., Polat, E. (2018). Molecular Diversity and Assessing of Purelines Reactions of Pepper Germplasm against *Botrytis cinerea*. *Plant Protect Science*. Doi:10.17221/44/2017-PPS.
10. Polat, İ., Baysal, Ö., Gümrükcü, E., SÜLÜ, G., Kitapçı, A., ÖZALP, R., Çelik, İ., Devran, Z. and Polat, E. (2018). Molecular Diversity and assessment of reactions of pepper pure line germplasm to *Botrytis cinerea*. *Plant Protect Sci*. Doi:10.17221/44/2017-PPS.
11. Kurbetli, İ., SÜLÜ, G., Aydoğdu, M. (2017). *Phytophthora chlamydospora* and *P. megasperma* associated with root and crown rot of sour cherry in Turkey. *Journal of Plant Diseases and Protection*. 124, 403–406. <https://doi.org/10.1007/s41348-017-0075-y>.



# GÖRKEM SÜLÜ

## Biologist



### ▪ Articles Published in International Journals (*Disease Notes (SCI)*)

1. Kurbetli, İ., SÜLÜ, G., Aydoğdu, Polat, İ. (2016). First Report of Crown and Root Rot of Plum Caused by *Phytophthora megasperma* in Turkey. <https://doi.org/10.1094/PDIS-06-16-0921-PDN>.
2. Kurbetli, İ., SÜLÜ, G., Aydoğdu, M., Özdemir, M., Sülü, S.M. and Polat, İ. (2016). First Report of Kumquat Shoot Blight Caused by *Phytophthora citrophthora* in Turkey. *Plant Disease*, 100(5):1023
3. Icoz, S.M., Polat, I., SÜLÜ, G., Yılmaz, M., Unlu, A., Soylu, S., Bozkurt, A. and Baysal, O. (2014). First Report of Bacterial Blight of Pomegranate Caused by *Xanthomonas axonopodis* pv. *punicae* in Turkey. *Plant Disease*, 98(10):1427

### ▪ International Papers, Seminars, etc.

1. Polat İ., Gümrükcü E., SÜLÜ G., Kitapçı A., Özalp R., Çelik İ., Devran Z., Polat E., Baysal, Ö. 2015. Molecular Characterization of Fungicides Resistance of Botrytis cinerea on Pepper and Host-Resistance of Selected Breeding Materials. COST Action SUSTAIN *Evolutionary Genomics of Plant Pathogens*-Germany
2. Çelik, İ., Özalp, R., Çelik, N., Polat, İ., SÜLÜ, G. 2015. Achieving long type pepper population resistant to Tomato Spotted Wilt Virus (TSWV). *International Plant Breeding Congress, 2-4 November, Antalya, TURKEY*, Abstract, Page: 321

### ▪ NATIONAL ARTICLES AND PAPERS

#### ▪ Articles Published in National Journals

1. Aydoğdu, M., SÜLÜ, G., Kurbetli, İ. (2021). Characterization of powdery mildew (*Leveillula taurica*) in globe artichoke (*Cynara scolymus*). *Mediterranean Agricultural Sciences*, 34(1): 17-24 DOI: 10.29136/mediterranean.770306
2. Polat, İ., G. SÜLÜ, A. Kitapçı, E. Gümrükcü, Ö. Baysal. (2018). Molecular fingerprinting of Botrytis cinerea population structure from different hosts. *Derim*, 35(2):121-134 doi:10.16882/derim.2018.410051
3. Çelik, İ., Özalp, R., Çelik, N., Polat, İ. ve SÜLÜ, G. (2018). Domates Lekeli Solgunluk Virüsü (TSWV)'ne Dayanıklı Sivri Biber Hatlarının Geliştirilmesi. *Derim*, 35(1): 27-36
4. Ünlü, M., Kurum, R., Polat, İ., Ünlü, A., SÜLÜ, G. (2014). Kavun Islah Programında Geliştirilen Aday Hibritlerin *Fusarium oxysporum* f. sp. *melonis*'e Moleküler Olarak Dayanıklılık Durumlarının Tespiti ve Verim Değerlerinin Belirlenmesi. *Derim*, 31(2): 1-10
5. Çelik, İ., Özalp, R., Çelik, N., Polat, İ., SÜLÜ, G., Ünlü, A. (2013). Patates Y Virüsü (Potato Virus Y= PVY)'ne dayanıklı sivri biber hatlarının geliştirilmesi. *Derim*, 30 (2):42-53

### ▪ National Papers, Seminars, etc.



# GÖRKEM SÜLÜ

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### ▪ **OTHER PUBLICATIONS**

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

1. SÜLÜ, G. (2017). Determination of genetic diversity of mutant yerli mandarin, Antalya yerli yuvarlak lemon individual and some lemon and mandarin varieties using SSCP markers  
**(Master Thesis/Supervisor: Prof. Yıldız AKA KAÇAR)**

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