

## Res. Asst. ÖZLEM SEFER

### Personal Information

Office Phone: [+90 444 5 001](tel:+904445001)

Email: [ozlem.sefer@yeni-yuzyil.edu.tr](mailto:ozlem.sefer@yeni-yuzyil.edu.tr)

Other Email: [ozlemsefer@outlook.com](mailto:ozlemsefer@outlook.com)

Web: <https://avesis.yeni-yuzyil.edu.tr/ozlem.sefer>

### International Researcher IDs

ScholarID: y0uUM98AAAAJ

ORCID: 0000-0002-2711-5938

Publons / Web Of Science ResearcherID: LJM-1429-2024

ScopusID: 57204059027

Yoksis Researcher ID: 317274

### Education

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2022 - Continues

Postgraduate, Istanbul University, Institute Of Graduate Studies In Sciences, Turkey 2019 - 2021

Undergraduate, Istanbul Yeni Yuzyil University, Faculty Of Arts And Sciences, Department Of Molecular Biology And Genetics, Turkey 2013 - 2017

### Dissertations

Postgraduate, Tebukonazolün Fusarium referans suşları üzerindeki etkisinin hücresel ve moleküler gösterimi, Istanbul University, Institute Of Graduate Studies In Sciences, 2021

### Research Areas

Molecular Biology and Genetics

### Academic Positions

Research Assistant, Istanbul Yeni Yuzyil University, Faculty Of Arts And Sciences, Department Of Molecular Biology And Genetics, 2020 - Continues

### Journal articles indexed in SCI, SSCI, and AHCI

- I. Determination of resistance levels of *Hordeum vulgare* L. cultivars grown in Türkiye against *Fusarium culmorum***  
YÖRÜK E., Ünal S., Özsoy E., SEFER Ö., Dülger A. F. T., Öztürk Z. N.  
Cereal Research Communications, 2024 (SCI-Expanded)
- II. Investigation of antifungal activities of myrcene on *Fusarium* reference strains**  
ALBAYRAK G., YÖRÜK E., Teker T., Sefer Ö.

Archives of Microbiology, vol.205, no.3, 2023 (SCI-Expanded)

- III. **Abstracts of presentations at the XXVII Congress of the Italian Phytopathological Society (SIPaV)**  
Yörük E., Oufensou S., Sefer Ö., Migheli Q., Balmas V.  
JOURNAL OF PLANT PATHOLOGY, vol.104, no.4, pp.1280, 2022 (SCI-Expanded)
- IV. **Trichoderma atroviride triggers alterations at epigenetics, transcripts, oxidative stress, and apoptosis levels on Fusarium graminearum**  
YÖRÜK E., Özkale E., Sefer Ö., Özsoy E.  
Journal of Plant Pathology, vol.104, no.3, pp.1039-1047, 2022 (SCI-Expanded)
- V.  **$\alpha$ -Thujone exhibits an antifungal activity against F. graminearum by inducing oxidative stress, apoptosis, epigenetics alterations and reduced toxin synthesis**  
Teker T., Sefer Ö., Gazdağlı A., YÖRÜK E., VAROL G. İ., ALBAYRAK G.  
European Journal of Plant Pathology, vol.160, no.3, pp.611-622, 2021 (SCI-Expanded)
- VI. **The roles of hormones in the modulation of growth and virulence genes' expressions in UPEC strains**  
Gümüş D., Kalaycı Yüksek F., Sefer Ö., YÖRÜK E., Uz G., Anğ Küçüker M.  
Microbial Pathogenesis, vol.132, pp.319-324, 2019 (SCI-Expanded)
- VII. **Investigation of camphor effects on fusarium graminearum and F. culmorum at different molecular levels**  
Gazdağlı A., Sefer Ö., YÖRÜK E., VAROL G. İ., Teker T., ALBAYRAK G.  
Pathogens, vol.7, no.4, 2018 (SCI-Expanded)
- VIII. **Salinity and drought stress on barley and wheat cultivars planted in Turkey**  
YÖRÜK E., Keleş E., Sefer Ö., Eraslan M.  
Journal of Environmental Biology, vol.39, no.6, pp.943-950, 2018 (SCI-Expanded)
- IX. **Thiophanate methyl susceptibility and alterations in tri5, Mgv1 and StuA expression among Fusarium graminearum and F. culmorum isolates**  
YÖRÜK E., Sefer Ö., Tunali B., Kansu B., Sharifnabi B., Yli-Mattila T.  
Journal of Plant Pathology, vol.100, no.3, pp.447-455, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Determining the biocontrol capacities of Trichoderma spp. originating from Turkey on Fusarium culmorum by transcriptional and antagonistic analyses**  
Sefer Ö., Özsoy E., YÖRÜK E., Özkale E.  
Frontiers in Fungal Biology, vol.4, 2023 (Scopus)
- II. **Identification of Fusarium graminearum and Fusarium culmorum Isolates via Conventional and Molecular Methods**  
Yuksektepe B., Sefer Ö., VAROL G. İ., Teker T., ARSLAN M., ALPAR B. İ., MERT F., YÖRÜK E., ALBAYRAK G.  
European Journal of Biology, vol.81, no.1, pp.107-116, 2022 (Scopus)
- III. **Urine Influences Growth and Virulence Gene Expressions in Uropathogenic E. coli: A Comparison with Nutrient Limited Medium**  
KALAYCI YÜKSEK F., GÜMÜŞ D., UZ G., SEFER Ö., YÖRÜK E., KÜÇÜKER A. M.  
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.11, no.2, pp.209-214, 2021 (ESCI)
- IV. **Do Norepinephrine and Estradiol Affect the Growth of Escherichia coli and Expressions of Mar Genes?**  
Gümüş D., Yüksek F., Sefer Ö., Yörük E., Uz G., Küçüker M. A.  
EXPERIMED, vol.11, no.3, pp.200-206, 2021 (Scopus)
- V. **Do Norepinephrine and Estradiol Affect the Growth of Escherichia coli and Expressions of Mar Genes? Norepinefrin ve Östradiol Escherichia coli'nin Üremesini ve Mar Genlerinin Ekspresyonunu Etkiler mi?**  
GÜMÜŞ D., KALAYCI YÜKSEK F., Sefer Ö., YÖRÜK E., UZ G., Anğ Küçüker M.

Experimed, vol.11, no.3, pp.200-206, 2021 (Scopus)

- VI. **Determining WRKY transcription factors related to salinity stress response in wheat (*Triticum aestivum* L.) and barley (*Hordeum vulgare* L.)**  
TUFAN DÜLGER A. F., KELEŞ E. N., SEFER Ö., ERASLAN M., SEFALI S., YÖRÜK E.  
Anadolu Tarım Bilimleri Dergisi, vol.35, no.1, pp.1-7, 2020 (Peer-Reviewed Journal)
- VII. **First Report on Identification of *Fusarium graminearum* Species Complex Members from Turkey and Iran**  
TUNALI B., YÖRÜK E., SEFER Ö., KANSU B., SHARIFNABI B.  
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.7, 2019 (Peer-Reviewed Journal)
- VIII. **FcMgv1, FcStuA AND FcVeA BASED GENETIC CHARACTERIZATION IN *Fusarium culmorum* (W.G. Smith)**  
YÖRÜK E., SEFER Ö.  
Trakya University Journal of Natural Sciences, vol.19, no.1, pp.63-69, 2018 (Peer-Reviewed Journal)
- IX. **Eugenol'ün *Fusarium culmorum* Üzerindeki Etkilerinin İncelenmesi**  
Yörük E., Sefer Ö., Sezer A. S., Konukcu Z., Develi E. S.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, no.2, pp.215-221, 2018 (Peer-Reviewed Journal)
- X. **Investigation of the Effects of Eugenol on *Fusarium culmorum***  
YÖRÜK E., SEFER Ö., SEZER A. S., KONUKÇU Z., DEVELİ E. S.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, no.2, pp.215-221, 2018 (Peer-Reviewed Journal)
- XI. **Investigation of the Effects of Eugenol on *Fusarium culmorum***  
YÖRÜK E., SEFER Ö., SEZER A. S., KONUKÇU Z., DEVELİ E. S.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, no.2, pp.215-221, 2018 (Peer-Reviewed Journal)
- XII. **Eugenol'ün *Fusarium culmorum* Üzerindeki Etkilerinin İncelenmesi**  
YÖRÜK E., SEFER Ö., Sezer A. S., Develi E. S., Konukcu Z.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2018 (Peer-Reviewed Journal)
- XIII. ***Fusarium graminearum* Tür Kompleksi Üyelerinin Tanımlanmasında Çoklu Lokus Genotiplendirme Analizleri**  
SEFER Ö., YÖRÜK E.  
ELEKTRONİK MİKROBİYOLOJİ DERGİSİ TR, vol.15, no.2, pp.14-25, 2017 (Peer-Reviewed Journal)
- XIV. **Effects of Kaempferol on Growth and Toxin Production of Head Blight Agent *Fusarium culmorum***  
SEFER Ö., YÖRÜK E., DEVELİ E. S., ZÜMRÜT İ. M., SEZER A. S., KONUKÇU Z.  
Süleyman Demirel Üniversitesi Ziraat fakültesi Dergisi, vol.12, no.1, pp.24-33, 2017 (Peer-Reviewed Journal)
- XV. **2,4-Dimetilpirol'ün Başak Yanıklığı Hastalığı Etmeni *Fusarium culmorum*'un Üzerine Etkilerinin İncelenmesi**  
SEFER Ö., YÖRÜK E., DEVELİ E. S., SEZER A. S., KONUKÇU Z.  
INTERNATIONAL JOURNAL OF SECONDARY METABOLITE, vol.4, no.2, pp.103-113, 2017 (Peer-Reviewed Journal)
- XVI. **Investigation of the Effects of 2,4-Dimethylpyrrole on *Fusarium culmorum* Causal Agent of Head Blight Disease**  
SEFER Ö., YÖRÜK E., DEVELİ E. S., SEZER A. S., KONUKÇU Z.  
International Journal of Secondary Metabolite, vol.4, no.2, pp.103-113, 2017 (Peer-Reviewed Journal)
- XVII. **Tahıl Patojeni *Fusarium culmorum*'da Genetik Tiplendirme Yaklaşımları**  
ZÜMRÜT İ. M., DEVELİ E. S., SEFER Ö., YÖRÜK E.  
ELEKTRONİK MİKROBİYOLOJİ DERGİSİ TR, vol.14, no.2, pp.1-16, 2016 (Peer-Reviewed Journal)

## Books

- I. **INVESTIGATION ON THE TERPINOLENEEFFECTS IN FUSARIUM GRAMINEARUMAND F. CULMORUM (AT DIFFERENTMOLECULAR LEVELS)**  
GAZDAĞLI A., Sefer Ö., YÖRÜK E., Varol G. İ., ALBAYRAK G.  
in: Academic Studies in Sciences and Mathematics, Aina Adeyinka Tem,tope, Demirçalı Aykut, Editor, Gece Kitaplığı,

pp.33-41, 2018

**II. Tetrakonazol'un Fusarium culmorum üzerindeki moleküler seviyedeki etkileri**

SEFER Ö., YÖRÜK E.

in: FEN BİLİMLERİ VE MATEMATİK ALANINDA AKADEMİK ÇALIŞMALAR, Aina Adeyinka Temitope, Demirçalı Aykut, Editor, GECE KİTAPLIĞI, Ankara, pp.39-48, 2018

**III. Polymorphisms in FgMgv1, FgStuA and FgVeA genes associated with growth of Fusarium graminearum**

YÖRÜK E., SEFER Ö.

in: Researches on Science and Art in 21st Century Turkey, Arapgirlioğlu Hasan, Atık Atilla, Elliott, Robert L., Turgeon Edward, Editor, Gece Kitaplığı, Ankara, pp.358-366, 2017

## **Papers Presented at Peer-Reviewed Scientific Conferences**

**I. IN SILICO ANALYSES OF PLANT MIRNAS TARGETING FUSARIUM GRAMINEARUM**

SEFER Ö., MARAKLI S.

XV International Scientific Agriculture Symposium "AGROSYM 2024", 10 - 13 October 2024, (Summary Text)

**II. Optimization of CBDP Marker to Determine Allelic Variation in Rice Cultivars (Oryza Sativa L.)**

İbişoğlu M. S., Sefer Ö., Yörük E., Yılmaz S.

XV. International Scientific Agriculture Symposium AGROSYM 2024, Sarajevo, Bosnia And Herzegovina, 10 - 13 October 2024, pp.1-2, (Summary Text)

**III. Determination of resistance levels of Hordeum vulgare L. lines grown in Türkiye against F. culmorum**

Ünal S., Özsoy E., SEFER Ö., TUFAN DÜLGER A. F., ÖZTÜRK GÖKÇE Z. N., YÖRÜK E.

6th International Anatolian Agriculture, Food, Environment and Biology Congress, Kütahya, Turkey, 09 October 2022, pp.890, (Summary Text)

**IV. Genome wide and gene specific epigenetic analyses in fusarium species**

SEFER Ö., İBİŞOĞLU M. S., YÖRÜK E., YILMAZ S.

IV. International Eurasian Agriculture and Natural Sciences Congress, 30 October 2020, (Full Text)

**V. The Effects of Human Urine on Growth and Gene Expressions in UPEC**

Kalaycı Yüksek F., GÜMÜŞ D., Sefer Ö., YÖRÜK E., UZ G., KÜÇÜKER A. M.

8th Congress of European Microbiologist (FEMS 2019), Glaskov, İSKOÇYA, 7 - 11 July 2019, pp.1019, (Summary Text)

**VI. A study on expression levels of some genes in Mar regulon in the presence of urine**

GÜMÜŞ D., KALAYCI YÜKSEK F., SEFER Ö., YÖRÜK E., KÜÇÜKER A. M.

8th Congress of European Microbiologists (FEMS 2019), Glasgow, England, 7 - 11 July 2019, (Summary Text)

**VII. The effects of human urine on growth and gene expression in UPEC**

KALAYCI YÜKSEK F., GÜMÜŞ D., UZ G., SEFER Ö., YÖRÜK E., KÜÇÜKER A. M.

8th Congress of European Microbiologists (FEMS 2019), Glasgow, England, 7 - 11 July 2019, (Summary Text)

**VIII. THIOPHANATE METHYL SUSCEPTIBILITY AND ALTERATIONS IN GENE EXPRESSION OF FUSARIUM GRAMINEARUM AND F. CULMORUM ISOLATES**

SEFER Ö., YÖRÜK E., TUNALI B., KANSU B., SHARIFNABI B., YLIMATTILA T.

IX International Scientific Agriculture Symposium, SARAYBOSNA, Bosnia And Herzegovina, 4 - 07 October 2018, pp.714, (Summary Text)

**IX. EUGENOL LEAD TO ENZYMATIC, EPIGENETICS, APOPTOTIC AND TRANSCRIPTOMICS ALTERATIONS ON CERCOSPORA BETICOLA**

YÖRÜK E., SEFER Ö., TUNALI B., MEYVA G., DEMİRAY K.

IX International Scientific Agriculture Symposium, SARAYBOSNA, Bosnia And Herzegovina, 4 - 07 October 2018, pp.685, (Summary Text)

**X. Determining WRKY Transcription Factors Related to Salinity Stress Response in Wheat (Triticum aestivum L.)**

SEFER Ö., ERASLAN M., SEFALI S., KELEŞ E. N., GÜNGÖR Ö., TUFAN A. F., YÖRÜK E.

European Conference on Science, Arts and Culture, Antalya, Turkey, 19 - 22 April 2018, pp.277, (Summary Text)

- XI. **Salinity and drought stress investigations on barley (*Hordeum vulgare* L.) and wheat (*Triticum aestivum* L.) cultivars planted in Turkey**

YÖRÜK E., KELEŞ E. N., SEFER Ö., ERASLAN M.

International Natural and Health Science Conference 2017, Antalya, Turkey, 19 - 21 October 2017, pp.218-220, (Summary Text)

- XII. **Polymorphisms in FgMgv1, FgStuA and FgVeA genes associated with growth of *Fusarium graminearum***

SEFER Ö., YÖRÜK E.

International Natural and Health Science Conference 2017, Antalya, Turkey, 19 - 21 October 2017, pp.242-244, (Summary Text)

- XIII. **Investigation of Eugenol Effects at Growth and Transcriptomic Levels in *Fusarium culmorum***

YÖRÜK E., SEFER Ö., SEZER A. S., KONUKÇU Z., DEVELİ E. S.

2nd Balkan Agriculture Congress 2017, Tekirdağ, Turkey, 16 - 18 May 2017, (Summary Text)

- XIV. **Effects of Kaempferol on Growth and Toxin Production in *Fusarium culmorum***

SEFER Ö., YÖRÜK E., DEVELİ E. S., ZÜMRÜT İ. M., SEZER A. S., KONUKÇU Z.

2nd Balkan Agriculture Congress 2017, Tekirdağ, Turkey, 16 - 18 May 2017, pp.51, (Summary Text)

- XV. **Beta-tubulin sequence based genetic diversity in *Fusarium culmorum* isolates from Turkey**

SEFER Ö., YÖRÜK E.

International Symposium on Biodiversity and Edible Wild Species 2017, Antalya, Turkey, 3 - 05 April 2017, pp.176, (Summary Text)

- XVI. **Beta-tubulin sequence based genetic diversity in *Fusarium graminearum* isolates from Turkey**

YÖRÜK E., SEFER Ö.

International Symposium on Biodiversity and Edible Wild Species 2017, Antalya, Turkey, 3 - 05 April 2017, pp.212, (Summary Text)

## Funded Projects

Maraklı S., Yörük E., Sefer Ö., Çintesan Ş., TUBITAK Project, *Triticum Aestivum*-*Fusarium Graminearum* Fitopatolojisinde Nanopartikül Aracılı Foliar Rnai Uygulamalarının Etkilerinin İncelenmesi, 2024 - 2026

Atakan A., Maraklı S., Sefer Ö., TUBITAK Project, Domates Kök Ve Kök Boğazı Çürüklüğü (*Fusarium Oxysporum* F. Sp. *Radicis-Lycopersici* (Jarvis & Shoemaker)) Hastalığına Karşı Bazı Tricoderma Türlerinin Biyokontrol Etkiğinin Araştırılması, 2024 - 2025

Sefer Ö., Yücesan F. B., Deniz E., TUBITAK Project, Amino Asit İlavesinin *Fusarium culmorum* üzerindeki epigenetik etkileri, 2023 - 2024

Yörük E., Sefer Ö., Kaya E., Project Supported by Higher Education Institutions, 8.1.2 Türkiye kökenli *Trichoderma* spp. izolatlarının transkripsiyonel ve antagonistik analizleri ile biyopotansiyellerinin belirlenmesi, 2023 - 2024

Sefer Ö., YÖRÜK E., Project Supported by Other Official Institutions, Türkiye kökenli *Trichoderma* spp. izolatlarının transkripsiyonel ve antagonistik analizleri ile biyopotansiyellerinin belirlenmesi, 2023 - 2024

Yörük E., Perçin Özkorucuklu S., Albayrak G., TUBITAK Project, Zirai İlaçların Aktif Bileşiklerinin *Fusarium* Türlerindeki Antifungal Etkilerinin Hücresel Gösterimi ve Direnç Seviyelerinin Moleküler Mekanizmalarının Araştırılması, 2020 - 2022

## Scientific Research / Working Group Memberships

Cost Action - Ca22158 - Exploiting Plant-Microbiomes Networks And Synthetic Communities To Improve Crops Fitness (Cropbiomes), Belçika, <https://www.cost.eu/actions/CA22158/>, 2024 - Continues

Cost Action - Ca22142 - Beneficial Root-Associated Microorganisms For Sustainable Agriculture (Root-Benefit), Belçika, <https://www.cost.eu/actions/CA22142/#tabs+Name:Description>, 2024 - Continues

## **Metrics**

Publication: 46

Citation (Scopus): 59

H-Index (Scopus): 5

## **Congress and Symposium Activities**

XV. International Scientific Agriculture Symposium AGROSYM 2024, Attendee, Sarajevo, Bosnia And Herzegovina, 2024

## **Scholarships**

2211 A- Yurt İçi Doktora Burs, TUBITAK, 2022 - Continues