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International Researcher IDs

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Education Information

Doctorate, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Tarımsal Biyoteknoloji (Dr), Turkey 2020 - Continues
Postgraduate, Gebze Technical University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji Ve Genetik (YI) (Tezli), Turkey
2017 - 2020

Undergraduate, Gebze Technical University, Temel Bilimler Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, Turkey
2012 - 2017

Dissertations

Postgraduate, Coiled-coil domain containing 124 (Cc124) proteininin mikroRNAlar tarafından regülasyonunun
incelenmesi, Gebze Technical University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji Ve Genetik (YI) (Tezli), 2020

Academic Titles / Tasks

Research Assistant, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2019 -
Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of Highly Efficient Resistance to Beet Curly Top Iran Virus (Becurtovirus) in Sugar Beet (*B. vulgaris*) via CRISPR/Cas9 System**
YILDIRIM K., Kavas M., Sevgen Küçük İ., Secgin Z., SARAÇ Ç.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.24, no.7, 2023 (SCI-Expanded)
- II. **General guidelines for CRISPR/Cas-based genome editing in plants**
AKSOY E., YILDIRIM K., Kavas M., Kayihan C., YERLİKAYA B. A., Calik I., Sevgen Küçük İ., DEMİREL U.
MOLECULAR BIOLOGY REPORTS, vol.49, no.12, pp.12151-12164, 2022 (SCI-Expanded)
- III. **Genome-based identification of beet curly top Iran virus infecting sugar beet in Turkey and investigation of its pathogenicity by agroinfection**
YILDIRIM K., Kavas M., Kaya R., Secgin Z., Can C., Sevgen Küçük İ., Gokcek Sarac C., Tahan V.
JOURNAL OF VIROLOGICAL METHODS, vol.300, 2022 (SCI-Expanded)

Books & Book Chapters

- I. **Genome Editing-Based Strategies Used to Enhance Crop Resistance to Parasitic Weeds**
Yıldırım K., Kavas M., Akın M., Sevgen Küçük İ.
in: A Roadmap for Plant Genome Editing, Agnès Ricroch, Dennis Eriksson, Dragana Miladinović, Jeremy Sweet, Katrijn Van Laere, Ewa Woźniak-Gientka, Editor, Springer, London/Berlin, Cham, pp.411-422, 2024
- II. **Genome Editing-Based Strategies Used to Enhance Crop Resistance to Parasitic Weeds**
YILDIRIM K., KAVAS M., AKIN M., SEVGEN KÜÇÜK İ.
in: A Roadmap for Plant Genome Editing, Agnès Ricroch, Dennis Eriksson, Dragana Miladinović, Jeremy Sweet, Katrijn Van Laere, Ewa Woźniak-Gientka, Editor, Springer, Cham, pp.411-413, 2024

Refereed Congress / Symposium Publications in Proceedings

- I. **Development CRISPR / CAS9 - Mediated Resistance in Sunflower against *O. cumana***
YILDIRIM K., SEVGEN KÜÇÜK İ., Miladinovic D., SARAÇ Ç.
5th International Symposium on Broomrape in Sunflower, Antalya, Turkey, 16 October 2023
- II. **CRISPR/Cas9 mediated resistance to Becurtovirus in sugar beet**
YILDIRIM K., KAVAS M., SEVGEN KÜÇÜK İ., seçgin z., SARAÇ Ç.
4th PlantEd Congress: Genome editing in plants, Porto, Portugal, 18 September 2023
- III. **Development of resistant sunflower lines to broomrape using crispr-cas9**
YILDIRIM K., SEVGEN KÜÇÜK İ., KAVAS M., Miladinovic D.
4th PlantEd Congress: Genome editing in plants, Porto, Portugal, 18 - 21 September 2023
- IV. **The first report on efficient CRISPR-based protocol for sunflower**
YILDIRIM K., SEVGEN KÜÇÜK İ., Kondic-Spika A., Cvejic S., Jocić S., Miladinovic D.
Proceedings, 20th International Sunflower Conference, 20 June 2022, pp.186
- V. **CRISPR-mediated multiple editing of Becurtovirus genome enabled curly top disease resistance in sugar beet and inhibited viral mutant escape and formation**
YILDIRIM K., KAVAS M., SEVGEN İ., SEÇGİN Z.
2nd PlantEd Congress, Lecce, Italy, 20 - 23 September 2021
- VI. **Investigation of Regulation by MicroRNAs of Coiled Coil Domain Containing Protein 124**
SEVGEN İ., TUZLAKOĞLU ÖZTÜRK M.
Lisansüstü Araştırmalar Sempozyumu ve Tanıtım Günleri, Kocaeli, Turkey, 17 - 18 June 2019, pp.142

Supported Projects

Sevgen Küçük İ., Yıldırım K., TÜBİTAK Project, AGARTR; yerli agar ve agar temelli ürünlerin geliştirilmesi, 2023 - 2024