

## Res. Asst. ESMA CEYLAN

### Personal Information

**Office Phone:** [+90 462 377 2383](tel:+904623772383)

**Email:** [esmaceylan@ktu.edu.tr](mailto:esmaceylan@ktu.edu.tr)

**Web:** <https://avesis.ktu.edu.tr/esmaceylan>

### International Researcher IDs

ORCID: 0000-0002-5559-8869

Publons / Web Of Science ResearcherID: AAK-1990-2021

ScopusID: 57203840994

Yoksis Researcher ID: 328387

### Education Information

Doctorate, Karadeniz Technical University, Fen Fakültesi, Biyoloji, Turkey 2020 - Continues

Postgraduate, Karadeniz Technical University, Fen Fakültesi, Biyoloji, Turkey 2013 - 2018

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Karadeniz Technical University, Fen Fakültesi, Biyoloji, 2020 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis of hydroxyapatite matrix Ag and CNT particle reinforced hybrid biocomposites with improved mechanical and antibacterial properties**  
ÖZKAYA S., ÇANAKÇI A., KARABACAK A. H., ÇELEBİ M., ÇANAKÇI S., CEYLAN E.  
International Journal of Materials Research, vol.115, no.3, pp.190-201, 2024 (SCI-Expanded)
- II. **Isolation and characterization of detergent-compatible amylase-, protease-, lipase-, and cellulase-producing bacteria**  
Inan Bektaş K., Nalçaoğlu A., Ceylan E., Colak D. N., Caglar P., Agirman S., Sivri N. S., Gunes S., Kaya A., Çanakçı S., et al.  
BRAZILIAN JOURNAL OF MICROBIOLOGY, vol.54, no.2, pp.725-737, 2023 (SCI-Expanded)
- III. **The Purification and Characterization of a Cutinase-like Enzyme with Activity on Polyethylene Terephthalate (PET) from a Newly Isolated Bacterium Stenotrophomonas maltophilia PRS8 at a Mesophilic Temperature**

Din S. U., Kalsoom K., Satti S. M., Uddin S., Mankar S. V., CEYLAN E., Hasan F., Khan S., Badshah M., BELDÜZ A. O., et al.

Applied Sciences (Switzerland), vol.13, no.6, 2023 (SCI-Expanded)

- IV. **Janthinobacterium kumbetense sp. nov., a violacein-producing bacterium isolated from spring water in Turkey, and investigation of antimicrobial activity of violacein**  
İnan Bektaş K., Nalçaoğlu A., Kati H., Ceylan E., Nalçacıoğlu R., Beldüz A. O., Çanakçı S.  
FEMS MICROBIOLOGY LETTERS, vol.370, 2023 (SCI-Expanded)
- V. **Investigation of potential inhibitor properties of violacein against HIV-1 RT and CoV-2 Spike RBD:ACE-2**  
Doganci M. A., Ay Sal F., Guler H. İ., Kati H., Ceylan E., Belduz A. O., Bozdal G., Yaylı N., Canakçı S.  
World Journal of Microbiology and Biotechnology, vol.38, no.9, 2022 (SCI-Expanded)
- VI. **A novel cryptic and theta type plasmid (pHIG22) from Thermus scodotuctus sp K6**  
Güler H. İ., Ceylan E., Çanakçı S., Beldüz A. O.  
GENE, vol.679, pp.282-290, 2018 (SCI-Expanded)

## Papers Published in Refereed Scientific Meetings

- I. **Hydrolysis of starch from corn and sorghum using bacterial enzymes (alpha, beta amylase, and pullulanase) for laboratory-scale glucose syrup production**  
Çanakçı S., Yıldırım F. N., Ceylan E., Beldüz A. O.  
V. International Enzyme and Bioprocess Days EBDays 2024 , İzmir, Turkey, 27 - 29 August 2024, pp.98
- II. **Isolation and determination of a novel protease for detergent industry from Bacillus velezensis C37plca**  
Çanakçı S., Ceylan E., Çolak D. N., Beldüz A. O., Nalçaoğlu Şenocak A., Güler H. İ., İnan Bektaş K.  
V. International Enzyme and Bioprocess Days EBDays 2024 , İzmir, Turkey, 27 - 29 August 2024, pp.97
- III. **Crude Violacein Extracts of Two Janthinobacterium sp. have inhibition effects on HIV-1 RT enzyme and SARS-CoV-2 spike S1: ACE2 interaction both in vitro and in silico**  
Doğancı M. A., Ay Şal F., Güler H. İ., Kati H., Ceylan E., Beldüz A. O., Bozdal G., Yaylı N., Çanakçı S.  
III. International Enzyme and Bioprocess Days / EBDays 2022, Tokat, Turkey, 9 - 11 September 2022, pp.56
- IV. **Isolation and Identification of Polyethylene terephthalate (PET) Degrading Bacteria from Garbage Waste Soil Samples**  
Ceylan E., Nalçaoğlu A., İnan Bektaş K., Çanakçı S., Beldüz A. O.  
the 8th International Congress of the Molecular Biology Association of Turkey (MolBiyKon'22), İstanbul, Turkey, 09 June 2022 - 12 January 2023, pp.179
- V. **Isolation, Characterization and Identification of Lipase and Protease Producing Bacteria Compatible for Detergent Industry.**  
CEYLAN E., NALÇAOĞLU A., İNAN BEKTAŞ K., ağırman s., sivri N. s., Kaya A., ÇANAKÇI S., BELDÜZ A. O.  
3. Eurasia Biochemical Approaches and Technologies Congress-EBAT 2021, Antalya, Turkey, 04 November 2021
- VI. **Isolation and Identification of Amylase and Cellulase Producing Bacteria Compatible for Detergent Industry**  
NALÇAOĞLU A., CEYLAN E., İNAN BEKTAŞ K., Güneş S., çağlar p., ÇANAKÇI S., BELDÜZ A. O.  
3. Eurasia Biochemical Approaches and Technologies Congress-EBAT 2021, Antalya, Turkey, 04 November 2021
- VII. **Synthesis and Investigation of Antibacterial Activity of Hydroxyapatite Matrix Ag and CNT Reinforced Biocomposite**  
Özkaya S., Çanakçı A., Çanakçı S., Ceylan E.  
IES'20 International Engineering Symposium Engineering Applications in Industry, İzmir, Turkey, 10 - 13 December 2020, pp.1-2
- VIII. **Production of Hydroxyapatite Matrix Ag and CNT Reinforced Biocomposites by Powder Metallurgy Method and Investigation of Mechanical Properties**  
Özkaya S., Çanakçı A., Karabacak A. H., Çanakçı S., Ceylan E.

IES'20 International Engineering Symposium Engineering Applications in Industry, İzmir, Turkey, 10 - 13 December 2020, pp.1-2

- IX. **Identification Of Minimal Replicon Of Plasmid pHIG22**  
GÜLER H. İ., Ceylan E., ÇANAKÇI S., BELDÜZ A. O.  
The Second Japan – Turkey International Symposium on Pharmaceutical and Biomedical Sciences, Trabzon, Turkey, 11 - 12 September 2017
- X. **Detection And Characterization Of Transcripts Of Plasmid pHIG22 By Using LACE And RACE Techniques**  
GÜLER H. İ., ÇANAKÇI S., Ceylan E., BELDÜZ A. O.  
International DNA Day and Genome Congress, Kırşehir, Turkey, 24 - 28 April 2017
- XI. **Detection and Characterization of Transcripts of Plasmid pHIG22 By Using LACE and RACE Techniques**  
GÜLER H. İ., ÇANAKÇI S., CEYLAN E., BELDÜZ A. O.  
International DNA day and Genome Congress, Kırşehir, Turkey, 24 - 28 April 2017, pp.160
- XII. **Detection And Characterization Of Transcripts Of Plasmid pHIG22 By Using LACE And RACE Techniques**  
GÜLER H. İ., ÇANAKÇI S., CEYLAN E., BELDÜZ A. O.  
Internatioanl DNA Day and Genome Congress, Kırşehir, Turkey, 24 - 28 April 2017, pp.168
- XIII. **QPCR Tekniği İle pHIG22 Plazmitinin Kopya Sayısının Hesaplanması**  
GÜLER H. İ., CEYLAN E., ÇANAKÇI S., BELDÜZ A. O.  
23. Ulusal Biyoloji Kongresi, Gaziantep, Turkey, 5 - 09 September 2016, pp.371
- XIV. **Determination of replication mode of Phigwith Tem analysis**  
GÜLER H. İ., Ceylan E., ÇANAKÇI S., BELDÜZ A. O.  
5. International Molecular Biology and Biotechnology Congres, 25 - 29 August 2016
- XV. **Determination Of Replication Mode Of pHIG22 With TEM Analysis 5th International Molecular Biology and Biotechnology Congress**  
GÜLER H. İ., CEYLAN E., ÇANAKÇI S., BELDÜZ A. O.  
5th International Molecular Biology and Biotechnology Congres, Skopje, Macedonia, 25 - 29 August 2016, vol.37
- XVI. **Determination Of Replication Mode Of pHIG22 With TEM Analysis**  
GÜLER H. İ., CEYLAN E., ÇANAKÇI S., BELDÜZ A. O.  
5th International Molecular Biology and Biotechnology Congress, Üsküp, Macedonia, 25 - 29 August 2016, vol.1, no.1, pp.41
- XVII. **Prolin-Kuyruğun Anoxybacillus sp. Litik Murein Transglikosilazın Optimum Sıcaklık ve pH'sı Üzerine Etkisi**  
CEYLAN E., EMİNOĞLU A., GÜLER H. İ., KURNAZ Z., BELDÜZ A. O.  
Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Afyon, Turkey, 21 - 24 August 2015, pp.1
- XVIII. **Anoxybacillus gonensis PDF21 Suşundan İzole Edilen Yeni Bir Lizozim Benzeri Enzim Litik Mürein Transglikozilazın Tanımlanması**  
GÜLER H. İ., CEYLAN E., KURNAZ Z., BELDÜZ A. O.  
22. Ulusal Biyoloji Kongresi, Eskişehir, Turkey, 23 - 27 June 2014, pp.1329
- XIX. **Thermus Scotoductus K6'dan İzole Edilen Yeni Bir Plazmitin (pHIG22) Anatomisi**  
GÜLER H. İ., CEYLAN E., ÇANAKÇI S., BELDÜZ A. O.  
22. Ulusal Biyoloji Kongresi, Eskişehir, Turkey, 23 - 27 June 2014, pp.1234
- XX. **Thermus scotoductus K6' dan izole edilen yeni bir plazmitin (pHIG22) anatomisi**  
GÜLER H. İ., CEYLAN E., ÇANAKÇI S., BELDÜZ A. O.  
22. Ulusal Biyoloji Kongresi, Eskişehir, Turkey, 23 - 27 June 2014, pp.1
- XXI. **Characterization of A Novel Lytic Murein Transglycosylase from Anoxybacillus gonensis PDF21**  
GÜLER H. İ., CEYLAN E., ÖZTEKİN Z., BELDÜZ A. O.  
3rd International Molecular Biology and Biotechnology Congress 2014, Sarajevo, Bosnia And Herzegovina, 2 - 06 June 2014, pp.69
- XXII. **Investigation of Replication of A Novel Plasmid (pHIG22) from Thermus scotoductus K6**

GÜLER H. İ., CEYLAN E., ÇANAKÇI S., BELDÜZ A. O.

3rd International Molecular Biology and Biotechnology Congress 2014, Sarajevo, Bosnia And Herzegovina, 2 - 06  
June 2014, pp.1

## Supported Projects

NALÇACIOĞLU R., YEŞİLYURT A., KATI H., GENÇER D., ÇANAKÇI S., CEYLAN E., BİTİK B., Project Supported by Higher Education Institutions, Giresun Mavi Göldeki Prokaryotik Çeşitliliğinin İncelenmesi ve Kültüre Edilebilir İzolatlarda Endüstriyel Öneme Sahip Bazı Enzim Aktivitelerinin Araştırılması, 2023 - Continues

ÇANAKÇI S., ÇOLAK D. N., CEYLAN E., NALÇAOĞLU A., BEKTAŞ S., GÜLER H. İ., Project Supported by Higher Education Institutions, Bacillus velezensis C37 suşunun deterjan uyumlu enzim üretiminin optimizasyonu, 2023 - Continues

BELDÜZ A. O., NALÇAOĞLU A., CEYLAN E., İNAN BEKTAŞ K., GÜLER H. İ., ÇANAKÇI S., Project Supported by Higher Education Institutions, Deterjan Endüstrisinde Kullanım Potansiyeline Sahip Enzim Üreticisi Bakteri İzolatlarının Moleküler Tanımlanması, 2021 - 2024

Beldüz A. O., Çanakçı S., TUBITAK Project, Thermus scotoductus K6'dan İzole Edilen Yeni, Kriptik, Küçük, Çok Kopyalı Bir Plazmitin (pHIG22) Fonksiyonel Analizi, 2012 - 2015

## Metrics

Publication: 28

Citation (WoS): 34

Citation (Scopus): 36

H-Index (WoS): 3

H-Index (Scopus): 3