

Res. Asst. PhD CEYDA KULA

Personal Information

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International Researcher IDs

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ORCID: 0000-0001-7240-407X

Publons / Web Of Science ResearcherID: AAE-3702-2019

ScopusID: 57195448226

Yoksis Researcher ID: 35510

Biography

Dr. Ceyda Kula was born in Manisa/Turkey in 1987. After completing her undergraduate studies at the Bioengineering Department of Ege University in 2010, she continued her master studies in the same year in the same department. In 2012, she joined the academic staff of the Bioengineering Department of Marmara University as a Research Assistant. In 2012, she completed her master's thesis on "Microbial biotransformation of cycloartane type saponins named cycloanthogenol and astragenol" and continued her Ph.D. studies at the Bioengineering Department of Marmara University. In the same year, within the framework of 2211 Domestic Doctorate Scholarship Program, TÜBİTAK-BİDEB, Department of Supporting Scientists won a non-refundable scholarship during her doctoral studies. In 2018, she completed her Ph.D. studies entitled "Multi-objective optimization at a crude novel lipase-catalyzed fame production: Kriging as an alternative to RSM". Dr. Kula continues to work as a Research Assistant at the Bioengineering Department of Marmara University since 2012.

Education

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Bioengineering (Eng), Turkey 2012 - 2018

Postgraduate, Ege University, Fen Bilimleri Enstitüsü, Biyomühendislik (YI) (Tezli), Turkey 2010 - 2012

Undergraduate, Ege University, Faculty Of Engineering, Biyomühendislik Bölümü, Turkey 2005 - 2010

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, MULTI-OBJECTIVE OPTIMIZATION AT A CRUDE NOVEL LIPASE CATALYZED FAME PRODUCTION: KRIGING AS AN ALTERNATIVE TO RSM, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Bioengineering (Eng), 2018

Postgraduate, MICROBIAL BIOTRANSFORMATION OF CYCLOARTANE TYPE SAPONINS NAMED CYCLOCANTHOGENOL

Research Areas

Biotechnology, Biochemical Reaction Engineering, Biotechnological Processes and Fermentation Technology, Biochemistry

Academic Positions

Research Assistant, Marmara University, Faculty of Engineering, Bioengineering, 2012 - Continues

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Antivirulence therapy: type IV pilus as a druggable target for bacterial infections**
Basaran E., Avci F. G., Ozcan A., Kula C., Ben Ali Hassine S., Keskin O., Özbek Sarıca P., Sarıyar Akbulut B.
Medicinal Chemistry Research, vol.34, no.2, pp.285-300, 2025 (SCI-Expanded)
- II. **Public health challenges after the February 6 earthquakes: A comprehensive review of immediate and long-term impacts in Türkiye**
Koçer A. T., Akpek A., Vural A., Aslan A., Erkoç A., Özen A. M., Şahin A., Oktay A., Şenol A. A., Batıoğlu-Karaaltın A., et al.
International Journal of Disaster Risk Reduction, vol.114, 2024 (SCI-Expanded)
- III. **Genome-scale metabolic models in translational medicine: the current status and potential of machine learning in improving the effectiveness of the models**
TURANLI B., Gulfidan G., Aydoğan O. O., KULA C., Selvaraj G., ARGA K. Y.
Molecular Omics, vol.20, no.4, pp.234-247, 2024 (SCI-Expanded)
- IV. **Attenuation of Type IV pili activity by natural products**
Yalkut K., Ben Ali Hassine S., Basaran E., KULA C., Ozcan A., Avci F. G., Keskin O., SARIYAR AKBULUT B., ÖZBEK SARICA P.
Journal of Biomolecular Structure and Dynamics, 2024 (SCI-Expanded)
- V. **Systems Biomarkers, Artificial Intelligence, and One Health Vision Can Help Fight Antimicrobial Resistance**
KULA C., ARGA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.27, no.4, pp.191-192, 2023 (SCI-Expanded)
- VI. **Multi-objective optimization of a novel crude lipase-catalyzed fatty acid methyl ester (FAME) production using low-order polynomial and Kriging models**
KULA C., SAYAR N. A.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.16, no.8, pp.657-665, 2019 (SCI-Expanded)
- VII. **Assessment of hazelnut husk as a lignocellulosic feedstock for the production of fermentable sugars and lignocellulolytic enzymes**
PİNAR O., Karaosmanoglu K., SAYAR N. A., KULA C., KAZAN D., SAYAR A. A.
3 BIOTECH, vol.7, 2017 (SCI-Expanded)
- VIII. **Microbial transformation of Astragalus saponin using Cunninghamella blakesleeana NRRL 1369 and Glomerella fusarioides ATCC 9552**
Bedir E., KULA C., Oner O., Altas M., Tag O., ÖNGEN ÖZGEN G.
JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol.115, pp.29-34, 2015 (SCI-Expanded)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Unraveling the Mechanisms of Phage and Antibiotic Resistance in Phage-Treated Isolates: Insights from Omics Approaches**
KULA C., Fothergill J. L., KADIOGLU A.
Early Career Summer Conference 2024, Glasgow, England, 08 July 2024, (Summary Text)
- II. **A drug repurposing study on the inhibition of type IV pili**
Özcan A., Ben Ali Hassine S., KULA C., AVCI F. G., ÖZBEK SARICA P., SARIYAR AKBULUT B.
47th FEBS Congress, Tours, France, 08 July 2023, (Summary Text)
- III. **RNA-based Screening of Antimicrobial Resistance: A Case Study on *Pseudomonas aeruginosa***
Kula C., Erdoğan E. E., Özçelik B., Gülfidan G., Arğa K. Y.
4th Eurasia Biochemical Approaches & Technologies Congress (EBAT), Antalya, Turkey, 3 - 06 November 2022, (Unpublished)
- IV. **Investigation of the Inhibition of *Pseudomonas aeruginosa* Type IV Pili Elongation ATPases to Prevent Biofilm Formation.**
Kula C., Avcı F. G., Keskin Özkaya Z. Ö., Özbek Sarıca P., Sarıyar Akbulut B.
4th Eurasia Biochemical Approaches & Technologies Congress (EBAT), Antalya, Turkey, 3 - 06 November 2022, (Unpublished)
- V. **Screening of FDA-Approved Natural Drugs as Anti-Virulence Agents Against *Pseudomonas aeruginosa* and *Neisseria meningitidis***
Özcan Yöner A., KULA C., AVCI F. G., KESKİN ÖZKAYA Z. Ö., ÖZBEK SARICA P., SARIYAR AKBULUT B.
FEMS Conference on Microbiology, Belgrade, Serbia, 30 June 2022, (Summary Text)
- VI. **Predicting antimicrobial resistance in *Pseudomonas aeruginosa* with transcriptome-based molecular signatures**
Erdoğan E. E., Kula C., Gülfidan G., Arğa K. Y.
15th International Symposium on Health Informatics and Bioinformatics, HIBIT'22, Mersin, Turkey, 20 - 22 October 2022, (Unpublished)
- VII. **Manually modified design of experiments for early biocatalyst evaluation–lipase-catalysed fatty acid methyl ester production**
KULA C., SAYAR N. A.
18th European Congress on Biotechnology, 1 - 04 July 2018, vol.44, pp.120-121, (Summary Text)
- VIII. **Biodiesel production from waste cooking oil via optimised transesterification by a locally sourced lipase**
KULA C., SAYAR N. A.
Challenges in Building a Sustainable Biobased Economy, EcoBio Conference 2016, 6 - 09 March 2016
- IX. ***Cryptococcus diffluens* D44 lipase for biodiesel production from waste cooking oil via optimized transesterification**
KULA C., SAYAR N. A.
BEC 2015 VII. Bioengineering Congress, 19 - 21 November 2015, (Summary Text)
- X. **Lipase Catalyzed Esterification Reactions–A Kinetic Model**
KULA C., SAYAR N. A.
16th EUROPEAN CONGRESS ON BIOTECHNOLOGY, 13 - 16 July 2014, (Summary Text)
- XI. **Characterization of Lipase Enzyme and Catalysed Esterification Reaction as a Model System**
KULA C., Yılmaz D. E., YALÇIN H. T., SAYAR N. A.
Enzymes for Biocatalysis, İstanbul, Turkey, 3 - 05 June 2014, (Summary Text)
- XII. **Biotransformation of Cycloartane-Type Sapogenols by *Cunninghamella blakesleeana* NRRL 1369 and *Glomerella fusarioides* ATCC 9552**
KULA C., KUBAN M., ÖNGEN ÖZGEN G., Khan I. A., BEDİR E.
2012 Phytochemical Society of Europe Congress on Bio-communication, 10 - 12 September 2012
- XIII. **Biotransformation of Cycloartane-Type Sapogenols, Cycloastragenol and Cyclocanthogenol, by *Cunninghamella blakesleeana* NRRL 1369**
KUBAN M., KULA C., ÖNGEN ÖZGEN G., BEDİR E.

Funded Projects

Kula C., Aksu M. B., Arga K. Y., R&D Project of Group B, Discovery of new drug candidates targeting resistant bacteria by transcriptome profiling in antimicrobial resistant clinical isolates of *Pseudomonas aeruginosa* and confirmation of drug efficacy in vitro, 2025 - 2027

Kula C., Sayar N. A., Project Supported by Higher Education Institutions, Lipazla katalizlenen bir esterifikasyon reaksiyonu Kinetik analizi proses tasarımı ve proses metriklerinin değerlendirilmesi, 2015 - 2018

Bedir E., TÜBİTAK - AB COST Project, Sikloartan grubu sapogenollerden hareketle potansiyel sitotoksik etkinliği yüksek moleküllerin hazırlanması, 2010 - 2013

Metrics

Publication: 22

Citation (WoS): 27

Citation (Scopus): 43

H-Index (WoS): 3

H-Index (Scopus): 3