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Education Information

Postgraduate, Pamukkale University, Institute Of Science, Turkey 2015 - 2016

Undergraduate, Pamukkale University, Faculty Of Arts And Sciences, Department Of Biology, Turkey 2008 - 2013

Research Areas

Biochemistry, Microbiology, Molecular Biology and Genetics

Academic Titles / Tasks

Research Assistant, Kocaeli University, Fen Edebiyat Fakültesi, Biyoloji, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Characterization of the three-phase partitioned laccase from *Trametes versicolor* strain with antiproliferative activity against breast cancer cells**
YÜZÜGÜLLÜ KARAKUŞ Y., Isik S., KALE BAKIR E., Turkmenoglu A., Devenci Ozkan A.
International Journal of Biological Macromolecules, vol.286, 2025 (SCI-Expanded)
- II. **Thermostable alkaline protease from *Scytalidium thermophilum*: production, purification, and biochemical characterization**
Yüzügüllü Karakuş Y., Kale Bakır E., İnci G. S., Mansurov B.
BIOCATALYSIS AND BIOTRANSFORMATION, vol.41, pp.380-394, 2023 (SCI-Expanded)
- III. **Synthesis and initial evaluation of efficacy of olean-12-en-28-ol, 3 beta-pentacosanoate for the symptomatic treatment of multiple sclerosis**
ŞEN A., ŞENOL H., Acar O. O., Kale E., DAĞ A., TOPÇU G.
FEBS OPEN BIO, vol.9, pp.74, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Study on the Lateral Channel of *Scytalidium* Catalase**
Akçay Ç., Kale Bakır E., Yüzügüllü Karakuş Y.

Open Access Journal of Microbiology & Biotechnology, vol.9, no.2, pp.1-6, 2024 (Peer-Reviewed Journal)

- II. Yüzügüllü Karakuş Y., Kale E., Acemi A., Mansurov B.
KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.25, no.1, pp.22-32, 2022 (ESCI)
- III. **Application of Aqueous Two-Phase System to the Purification of Persimmon Polyphenol Oxidase**
KALE E., YÜZÜGÜLLÜ KARAKUŞ Y.
Open Access Journal of Microbiology & Biotechnology, vol.7, 2022 (Peer-Reviewed Journal)

Books & Book Chapters

I. ANTIOXIDANT ENZYMES IN BIOTECHNOLOGY

Yüzügüllü Karakuş Y., Kale Bakır E., Işık S.

in: BIOTECHNOLOGY IN ACTION: UNVEILING NATURE'S POTENTIAL 2, Murat Özdal, Sümeyra Gürkök, Editor, EFE ACADEMY, Erzurum, pp.241-260, 2024

II. ENZYME CARRYING NANOPARTICLES AND BIOMEDICAL APPLICATIONS

Yüzügüllü Karakuş Y., Mert S., Kale Bakır E., Asri H.

in: NANOTECHNOLOGY IN INDUSTRY AND BIOMEDICINE -2, Servet Tural, Yusuf Kenan Haspolat, Bilsen Tural, Editor, Orient Publications, Ankara, pp.144-156, 2024

Refereed Congress / Symposium Publications in Proceedings

I. Thermal characterization of polyphenol oxidase from persimmon

KALE E., TÜRKER KAYA S., YÜZÜGÜLLÜ KARAKUŞ Y.

International Marmara Sciences Congress (Imascon Spring 2022), Kocaeli, Turkey, 13 May 2022, pp.493-498

II. Characterization of Human CYP450 Isozymes Responsible For The In Vitro Oxidative Metabolism of Mesalamine Used For Colitis.

KALE E., ŞEN A.

Innovations in Science and Education, 20 March 2019, vol.7, pp.753-759

III. Anti-inflammatory effects of UA and OPC isolated from Capparis ovata,

KALE E., ÖZGÜN ACAR Ö., alfa h. a., GAZİOĞLU I., TOPÇU G., ŞEN A.

7th International Congress of the Molecular Biology Association of Turkey, 27 - 29 September 2019

IV. Anticarcinogenic effect a novel alkaloid: 1H-indole-2-hydroxy, 3 carboxylic acid

ÖZGÜN ACAR Ö., KALE E., oruç h., GAZİOĞLU I., TOPÇU G., ŞEN A.

7th International Congress of the Molecular Biology Association of Turkey, 27 - 29 September 2019

V. A Toxicogenomic approach for evaluation of the nongenotoxic effects of Caper (Capparis ovata).

KALE E., ÖZGÜN ACAR Ö., ÇELİK TURGUT G., ŞAHİN B., ŞEN A.

6th International Congress of the Molecular Biology Association of Turkey, 5 - 08 September 2018

VI. Initial screening the anti-inflammatory effect of Thymbra capitata (L.) Cav. essential oil in Caco-2 cells

KALE E., SEMİZ A., SEMİZ G., KOCABIYIK K., ŞEN A.

The 4th International Symposium on EuroAsian Biodiversity, 3 - 06 July 2018

VII. Comparative evaluation of the anti-inflammatory effect of 5-Aminosalicylic acid in Caco-2 and HepG2 cell line

KALE E., ÖZGÜN ACAR Ö., sandal f., ŞEN A.

5th International Congress of the Molecular Biology Association of Turkey, 7 - 10 September 2017

VIII. In vitro investigation of the role of Cytochrome P4503A4 in 5-Aminosalicylic acid metabolism

KALE E., ÖZGÜN ACAR Ö., ŞEN A.

5th International Congress of the Molecular Biology Association of Turkey, 7 - 10 September 2017

IX. In vitro investigation of the role of Cytochrome P4503A4 in 5-Aminosalicylic acid metabolism

KALE E., ÖZGÜN ACAR Ö., ŞEN A.

5th International Congress of the Molecular Biology Association of Turkey, 7 - 10 September 2017

X. Identification of the Cytochrome P4502D6 in the Metabolism of 5-Aminosalicylic Acid: in vitro Investigations of Potential Co-Prescription Interactions'

KALE E., ŞEN A.

The 3rd International Symposium on EuroAsian Biodiversity, 5 - 08 July 2017, pp.484

XI. Regulation of the Both Anti-Inflammatory and Inflammatory Cytokines Expression by 5-Aminosalicylic Acid in Caco-2 Cells

KALE E., BOZAĞAÇ N., ŞEN A.

The 3rd International Symposium on EuroAsian Biodiversity, 5 - 08 July 2017

XII. In vitro investigation of anti-cancer effect of Pinus nigra Arnold subsp pallasiana (Lamb.) Holmboe essential oil in neuroblastoma cells (SH-SY5Y)

SEMİZ A., ÇELİK TURGUT G., SEMİZ G., KALE E., ŞEN A.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, 3 - 08 September 2016, vol.283, pp.257

Supported Projects

YÜZÜGÜLLÜ KARAKUŞ Y., KALE BAKIR E., Project Supported by Higher Education Institutions, Trabzon hurmasından Diospyros kaki L saflaştırılan polifenol oksidaz enziminin karakterizasyonu ve kinetik özelliklerinin belirlenmesi, 2024 - Continues

MERT S., YÜZÜGÜLLÜ KARAKUŞ Y., KALE BAKIR E., ASRİ H., DEVECİ ÖZKAN A., Bah M., Project Supported by Higher Education Institutions, Lakkaz yüklü Aljinat Mikrokürelerin Kolorektal Kanser Hücreleri Üzerine olan AntiKanser Aktivitesinin İncelenmesi, 2024 - Continues

YÜZÜGÜLLÜ KARAKUŞ Y., KALE BAKIR E., AKDEMİR KOÇ H., BALCI H., TÜRKİYILMAZ T., AKYOL Z., Project Supported by Higher Education Institutions, Scytalidium thermophilum katalazfenol oksidazının termal kararlılığının artırılması, 2024 - Continues

YÜZÜGÜLLÜ KARAKUŞ Y., Işık S., ERMAN G., DEVECİ ÖZKAN A., KALE BAKIR E., Project Supported by Higher Education Institutions, Trametes versicolor Lakkazının Potansiyel Terapötik Etkisinin Tiroid ve Endometrium Kanser Hücrelerinde Araştırılması, 2024 - Continues

YÜZÜGÜLLÜ KARAKUŞ Y., KALE BAKIR E., Project Supported by Higher Education Institutions, Mycothermus thermophilus KatalazFenol Oksidazının KATFO Çeşitli Kanser Hücre Hatlarındaki Etkinliğinin Araştırılması, 2023 - Continues

Kale Bakır E., Yüzüğüllü Karakuş Y., Deveci A., TUBITAK Project, Mycothermus Thermophilus Katalaz-Fenol Oksidazının Tak1 Sinyal Yoluna Etkisinin Prostat Kanseri Hücrelerinde İncelenmesi, 2024 - 2025

Yüzüğüllü Karakuş Y., Deveci A., Yanar S., Kale Bakır E., Emergency R&D Project of Group A, Yerel Kaynaklı Lakkaz Enziminin Kolorektal Kanser Hücreleri Üzerine olan Anti-Kanser Aktivitesinin Moleküler Düzeyde İncelenmesi", 2024 - 2025

YÜZÜGÜLLÜ KARAKUŞ Y., AKSOY Ö., ACEMİ A., KALE BAKIR E., Project Supported by Higher Education Institutions, Termofilik mantar Scytalidium thermophilusun çift aktiviteli antioksidan rekombinant katalazfenol oksidazının meme kanseri hücre hattında sitotoksik etkisinin belirlenmesi, 2023 - 2024

YÜZÜGÜLLÜ KARAKUŞ Y., ACEMİ A., TÜRKER KAYA S., KALE BAKIR E., Project Supported by Higher Education Institutions, Mycothermus thermophilus katalaz enzim aktivitesinin artırılması, 2023 - 2024

Yüzüğüllü Karakuş Y., Kale Bakır E., Deveci A., Aksoy Ö., Varol N., TUBITAK Project, Meme Kanseri Hücrelerinde Mycothermus thermophilus Kaynaklı Katalaz-Fenol Oksidazın Fenolik Bileşiklerle Potansiyel Kombin Terapötik Etkisinin In vitro İncelenmesi, 2023 - 2024

YÜZÜGÜLLÜ KARAKUŞ Y., Alimudin J., KALE E., Project Supported by Higher Education Institutions, Eisenia foetida sölomik sıvısının meme kanseri hücreleri üzerine koruyucu etkisinin belirlenmesi, 2022 - 2023

YÜZÜGÜLLÜ KARAKUŞ Y., ACEMİ A., KALE E., MANSUROV B., Project Supported by Higher Education Institutions, Gündüz Sefası Ipomoea purpurea Bitkisinden Polifenol Oksidaz Enziminin Saflaştırılması, 2021 - 2022

Kale Bakır E., Şen A., Project Supported by Higher Education Institutions, Olean-12-en-28-ol, 3β Pentakosanoat (OPC) özgün bileşiğinin moleküler hedefinin belirlenmesi ve karakterizasyonu, 2018 - 2022

Metrics

Publication: 20

Citation (WoS): 2

H-Index (WoS): 1