

Res. Asst. MERVE AKKULAK

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International Researcher IDs

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Publons / Web Of Science ResearcherID: [AAZ-7025-2020](#)

ScopusID: [57264405800](#)

Yoksis Researcher ID: [264147](#)

Education Information

Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 2016 - Continues

Postgraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 2014 - 2016

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 2009 - 2014

Foreign Languages

English, C2 Mastery

Dissertations

Postgraduate, Effects of resveratrol and quercetin on vitamin d metabolizing cytochrome p450 enzymes , Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2016

Research Areas

Life Sciences

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

1. Modulation of Caco-2 Colon Cancer Cell Viability and CYP2W1 Gene Expression by Hesperidin-

treated Lacticaseibacillus rhamnosus GG (LGG) Cell-free Supernatants.

Akkulak M., Evin E., Durukan O., Celebioglu H. U., Adali O.

Anti-cancer agents in medicinal chemistry, vol.24, pp.372-378, 2024 (SCI-Expanded)

- II. **Xenogenic Neural Stem Cell-Derived Extracellular Nanovesicles Modulate Human Mesenchymal Stem Cell Fate and Reconstruct Metabolomic Structure**
DERKUŞ B., Isik M., Eylem C. C., ERGİN İ., Camci C. B., Bilgin S., ELBÜKEN Ç., ARSLAN Y. E., AKKULAK M., ADALI O., et al.
ADVANCED BIOLOGY, vol.6, no.6, 2022 (SCI-Expanded)
- III. **Association of cholesterol 7 α -hydroxylase (CYP7A1) promoter polymorphism (rs3808607) and cholesterol 24S-hydroxylase (CYP46A1) intron 2 polymorphism (rs754203) with serum lipids, vitamin D levels, and multiple sclerosis risk in the Turkish population**
SEZER E., CAN DEMİRDÖĞEN B., Demirkaya S., Bulut G., AKKULAK M., EVİN E., ADALI O.
Neurological Sciences, vol.43, no.4, pp.2611-2620, 2022 (SCI-Expanded)
- IV. **Effect of cisplatin treatment on protein expression of vitamin D metabolizing CYP24A1 in PC3 cell line**
EVİN E., Durukan O., AKKULAK M., ADALI O.
FEBS OPEN BIO, vol.8, pp.326, 2018 (SCI-Expanded)
- V. **Effect of quercetin on mRNA and protein expressions of vitamin D metabolizing CYP27B1 and CYP24A1 in human embryonic kidney cell line (HEK-293)**
Akkulak M., Evin E., Durukan Ö., Özhan G., Adali O.
FEBS OPEN BIO, vol.8, pp.352, 2018 (SCI-Expanded)
- VI. **Alteration of protein and gene expressions of Hexokinase II in PC3 cell lines by cisplatinmetformin combination treatment**
Durukan Ö., Akkulak M., Evin E., Arslan Ş., Adali O.
FEBS OPEN BIO, vol.8, pp.352, 2018 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **EFFECT OF ONCOFETAL CYP2W1 GENE ON EPITHELIAL-MESENCHYMAL TRANSITION MARKERS**
Akkulak M., Durukan Ö., Evin E., Adali O.
International Biochemistry Congress 2022, İzmir, Turkey, 26 - 30 October 2022, vol.50, no.49, pp.136-137
- II. **Analysis of Protein and mRNA Expressions of CYP1A1 and CYP2E1 Enzymes In Liver, Colon And Prostate Cancer Cell Lines to Study Drug and Carcinogen Metabolism**
Evin E., Karakurt S., Akkulak M., Adali O.
International Congress on Advances in BioScience and Biotechnology, Sarajevo, Bosnia And Herzegovina, 25 - 29 October 2017, pp.59
- III. **Metformin-Cisplatin combination treatment alters gene and protein expressions of CYP17A1 in LNCaP cell line**
DURUKAN Ö., AKKULAK M., SENA GJOTA E., ARSLAN Ş., ADALI O.
10th International Symposium on Health Informatics and Bioinformatics (HIBIT 2017), 28 - 30 June 2017
- IV. **Effect of resveratrol on mRNA and protein expressions of Vitamin D metabolizing CYP24A1 in human embryonic kidney cell line (HEK-293)**
AKKULAK M., EVİN E., DURUKAN Ö., ÖZHAN H. G., ADALI O.
10th International Symposium on Health Informatics and Bioinformatics (HIBIT 2017), 28 - 30 June 2017
- V. **Cytotoxic and antioxidant activities of three Tanacetum L Taxa from Turkey**
ARITULUK Z. C., AKKULAK M., KARAKURT S., ADALI O., GENÇLER ÖZKAN A. M.
5th International Molecular Biology and Biotechnology Congress, ÜSKÜP, Macedonia, 25 - 29 August 2016
- VI. **Effects of plant phenolic compounds tannic acid and resveratrol on prostate cancer metastasis**
KARAKURT S., AKKULAK M., EVİN E., ADALI O.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.460

Supported Projects

ADALI O., AKKULAK M., POLAT J. M., TÜRKÖZ O., Project Supported by Higher Education Institutions, Antipsikotik ilaç klorpromazinin potansiyel antikanser etki mekanizmasının insan glioblastom hücre hattında nitrik oksit sentaz enzimleri ve nitrik oksit seviyesine bakılarak araştırılması, 2023 - Continues

Adalı O., Akkulak M., TÜBİTAK Project, Cyp2w1 Geninin Metastaz Sürecindeki Rolünün RNA İnterferans (RNAi) Yöntemi İle Susturularak İncelenmesi, 2021 - 2022

ADALI O., DURUKAN Ö., AKKULAK M., EVİN E., Project Supported by Higher Education Institutions, CYP4X1 geninin beyin tümörü anjiyogenezindeki rolünün RNA interferans (RNAi) yöntemi ile susturularak incelenmesi, 2021 - 2022

ADALI O., AKKULAK M., EVİN E., DURUKAN Ö., Project Supported by Higher Education Institutions, CYP2W1 geninin RNA interferans (RNAi) yöntemi ile susturularak epitelyal mezenkimal geçişteki rolünün kolon kanser hücre hattında incelenmesi, 2020 - 2021

ADALI O., AKKULAK M., Project Supported by Higher Education Institutions, Benzimidazol ve Benzotiyazol Türevlerinin Antikanser Etkilerinin İnsan Adenokarsinom Hücrelerinde Araştırılması, 2020 - 2021

ADALI O., AKKULAK M., DURUKAN Ö., EVİN E., GÜRAY N. T., Project Supported by Higher Education Institutions, Hekzokinaz II proteininin prostat kanseri hücre hatlarındaki ekspresyonunun antidiyabet ve antikanser ilaç kombinasyonlarına bağlı değişimi, 2018 - 2019

Metrics

Publication: 13

Citation (WoS): 6

Citation (Scopus): 6

H-Index (WoS): 2

H-Index (Scopus): 2

Congress and Symposium Activities

2nd International Turkish World Congress of Multiple Sclerosis , Audience, Antalya, Turkey, 2020

Invited Talks

Conference, 3rd International Turkish World Congress of Multiple Sclerosis, Turkey, April 2021