

Asst. Prof. ZÜLFİYE YELİZ AKKAYA ULUM

Personal Information

Office Phone: [+90 312 305 2541](tel:+903123052541)

Email: yelizakkaya@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/yelizakkaya>

Address: Hacettepe Üniversitesi, Tıp Fakültesi, Tibbi Biyoloji Anabilim Dalı, 06100, Sıhhiye, Ankara

International Researcher IDs

ScholarID: 6cL9TgcAAAAJ

ORCID: 0000-0003-1888-2542

Yoksis Researcher ID: 101511

Education Information

Post Doctorate, United States Of America 2019 - 2021

Doctorate, Hacettepe University, Tıp Fakültesi, Tibbi Biyoloji Anabilim Dalı, Turkey 2012 - 2018

Doctorate, Karolinska Institutet (Karolinska Institute), Tıp Bölümü, Dermatoloji Ve Veneroloji Birimi, Sweden 2015 - 2015

Postgraduate, Hacettepe University, Tıp Fakültesi, Tibbi Biyoloji Anabilim Dalı, Turkey 2010 - 2012

Associate Degree, Anadolu University, Sağlık Kurumları İşletmeciliği, Turkey 2009 - 2011

Undergraduate, Hacettepe University, Fen Fakültesi, Turkey 2004 - 2009

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Medicine, Medical Biology, Health Sciences, Fundamental Medical Sciences

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Tıp Fakültesi (Türkçe), Temel Tıp Bilimleri Bölümü, 2022 - Continues

Research Assistant, Hacettepe University, Tıp Fakültesi (İngilizce), Temel Tıp Bilimleri Bölümü, 2012 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluation of Tumorigenic Properties of MDA-MB-231 Cancer Stem Cells Co-cultured with Telocytes and Telocyte-Derived Mitochondria Following miR-146a Inhibition**
Babadağ S., Altundağ Ö., Akkaya Ulum Z. Y., Çelebi Saltık B.
DNA AND CELL BIOLOGY, vol.1, no.5, pp.1-12, 2024 (SCI-Expanded)
- II. **InflammamiRs in focus: Delivery strategies and therapeutic approaches**
AKKAYA ULUM Z. Y., Sen B., AKBABA T. H., Balci-Peynircioğlu B.

FASEB Journal, vol.38, no.5, 2024 (SCI-Expanded)

- III. **Drug metabolism and inflammation related distinct miRNA signature of colchicine resistant familial Mediterranean fever patients**
Tümerdem B. Ş., AKBABA T. H., BATU AKAL E. D., AKKAYA ULUM Z. Y., MUTLU P., ÖZEN S., Balci-Peynircioğlu B. International Immunopharmacology, vol.124, 2023 (SCI-Expanded)
- IV. **Characterization of serum extracellular vesicles and their differential level of miR-197-3p in familial Mediterranean fever patients**
Tavukcuoglu Z., AKKAYA ULUM Z. Y., YERSAL N., Horzum U., AKBABA T. H., KARADAĞ Ö., ESENDAĞLI G., KORKUSUZ P., ÖZEN S., Balci-Peynircioğlu B. Nucleosides, Nucleotides and Nucleic Acids, 2023 (SCI-Expanded)
- V. **The pyrin inflammasome aggravates inflammatory cell migration in patients with familial Mediterranean fever**
Akbaba T. H., Akkaya-Ulum Y. Z., Demir S., Ozen S., Balci-Peynircioğlu B. PEDIATRIC RESEARCH, vol.91, no.6, pp.1399-1404, 2022 (SCI-Expanded)
- VI. **Familial Mediterranean fever-related miR-197-3p targets IL1R1 gene and modulates inflammation in monocytes and synovial fibroblasts**
Akkaya-Ulum Z. Y., Akbaba T. H., Tavukcuoglu Z., Chae J. J., Yilmaz E., Ozen S., Balci-Peynircioğlu B. SCIENTIFIC REPORTS, vol.11, no.1, 2021 (SCI-Expanded)
- VII. **Inflammation-related differentially expressed common miRNAs in systemic autoinflammatory disorders patients can regulate the clinical course**
AKBABA T. H., Akkaya-Ulum Y. Z., Tavukcuoglu Z., BİLGİNER Y., ÖZEN S., Balci-Peynircioğlu B. CLINICAL AND EXPERIMENTAL RHEUMATOLOGY, vol.39, no.5, 2021 (SCI-Expanded)
- VIII. **Autoinflammation in addition to combined immunodeficiency: SLC29A3 gene defect**
Cagdas D. N., Surucu N., TAN Ç., ÖZGÜL R. K., Akkaya-Ulum Y. Z., Aydinoglu A. T., Aytac Ş. S., GÜMRÜK F., Balci-Hayta B., Balci-Peynircioğlu B., et al. MOLECULAR IMMUNOLOGY, vol.121, pp.28-37, 2020 (SCI-Expanded)
- IX. **Genome-Wide Screen for MicroRNAs Reveals a Role for miR-203 in Melanoma Metastasis**
AKKAYA ULUM Z. Y. JOURNAL OF INVESTIGATIVE DERMATOLOGY, vol.138, no.4, pp.882-892, 2018 (SCI-Expanded)
- X. **Alteration of the microRNA expression profile in familial Mediterranean fever patients**
Akkaya-Ulum Y. Z., Balci-Peynircioğlu B., KARADAĞ Ö., Eroglu F. K., KALYONCU U., KİRAZ S., Ertenli A. I., ÖZEN S., YILMAZ E. CLINICAL AND EXPERIMENTAL RHEUMATOLOGY, vol.35, no.6, 2017 (SCI-Expanded)
- XI. **The effect of N-acetylcysteine and calcium hydroxide on TNF-alpha and TGF-beta 1 in lipopolysaccharide-activated macrophages**
Karapinar S. P., ULUM Y. Z. A., ÖZÇELİK B., BUZOGLU H., Ceyhan D., PEYNIRCIÖGLU B., AKSOY Y. ARCHIVES OF ORAL BIOLOGY, vol.68, pp.48-54, 2016 (SCI-Expanded)
- XII. **The effect of colchicine on pyrin and pyrin interacting proteins.**
Taskiran E. Z., Cetinkaya A., Balci-Peynircioğlu B., Akkaya Y. Z., Yilmaz E. Journal of cellular biochemistry, vol.113, no.11, pp.3536-46, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Genetic variations in Familial Mediterranean fever related MIR197 gene in Turkish population Türk popülasyonundaki Ailevi Akdeniz ateşi ilişkili MIR197 genindeki genetik varyasyonlar**
Nalbant E., Şen B., KILIÇ L., AKKAYA ULUM Z. Y. Journal of Turkish Society For Rheumatology, vol.16, no.1, pp.38-43, 2024 (Scopus)
- II. **The new era in therapeutic approaches: Non-coding RNAs and diseases**
AKKAYA ULUM Z. Y., Dincer P. MARMARA MEDICAL JOURNAL, vol.26, no.1, pp.5-10, 2013 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. Possible relationship between mevalonate kinase and cell migration from perspective of mevalonate kinase deficiency
AKBABA T. H., AKKAYA ULUM Z. Y., DEMİR S., ÖZEN S., PEYNİRCİOĞLU B.
7th INTERNATIONAL CONGRESS of THE MOLECULAR BIOLOGY ASSOCIATION of TURKEY, 27 - 29 September 2019,
vol.43
- II. COMORBIDITIES IN FAMILIAL MEDITERRANEAN FEVER
KAYA AKCA Ü., Peynircioglu B. B., ARICI Z. S., Avci E., AKKAYA ULUM Z. Y., YILMAZ E., BİLGİNER Y., ÖZEN S.
Annual European Congress of Rheumatology (EULAR), Madrid, Spain, 12 - 15 June 2019, vol.78, pp.1963
- III. Cell Migration Defect In Hyperimmunoglobulin D Syndrome
AKBABA T. H., DEMİR S., AKKAYA ULUM Z. Y., ÖZEN S., PEYNİRCİOĞLU B.
Autoinflammation 2019, 10.Uluslararası FMF ve SAID Kongresi, Cenova, İtalya, 31 March - 03 April 2019
- IV. miR-197 Regulates Inflammation In Monocytes And Synovial Fibroblasts By Targeting IL1R1
AKKAYA ULUM Z. Y., TAVUKÇUOĞLU Z., AKBABA T. H., YILMAZ E., PEYNİRCİOĞLU B.
Autoinflammation 2019, 10.Uluslararası FMF ve SAID Kongresi, Cenova, İtalya, 31 March - 03 April 2019
- V. Possible Regulatory Effects Of miRNAs In The Pathogenesis Of Systemic Auto Inflammatory Diseases From The Perspective Of Familial Mediterranean Fever
AKKAYA ULUM Z. Y., TAVUKÇUOĞLU Z., BATU E. D., AKBABA T. H., SÖNMEZ H. E., PEYNİRCİOĞLU B., ÖZEN S.
Autoinflammation 2019, 10.Uluslararası FMF ve SAID Kongresi, Cenova, İtalya, 31 March - 03 April 2019
- VI. Investigation of inflammasome components in the process of cell migration in FMF patients
AKBABA T. H., AKKAYA ULUM Z. Y., DEMİR S., TAVUKÇUOĞLU Z., ÖZEN S., PEYNİRCİOĞLU B.
10th International Congress of Familial Mediterranean Fever and Systemic Auto-Inflammatory Diseases, Genoa, Italy, 31 March 2019, pp.20-21
- VII. MiRNAs as Possible Modulators in the Pathogenesis of Systemic Auto Inflammatory Diseases
AKKAYA ULUM Z. Y., AKBABA T. H., TAVUKÇUOĞLU Z., ÖZEN S., PEYNİRCİOĞLU B.
3rd Danube Conference on Epigenetics - FEBS 2018, Budapest, Hungary, 09 October 2018, pp.52
- VIII. The Existence Of Exosomal MiRNAs In The Circulation In Familial Mediterranean Fever (FMF) Patients
tavukcuoglu z., AKKAYA ULUM Z. Y., YERSAL N., AKBABA T. H., yardimci g. k., karadag o., KORKUSUZ P., PEYNİRCİOĞLU B.
EBML Symposia, 3 - 06 October 2018
- IX. Characterization of Circulating Exosomes and Analysis of Exosomal microRNAs
zeynep t., AKKAYA ULUM Z. Y., YERSAL N., AKBABA T. H., Horzum U., ESENDAĞLI G., KORKUSUZ P., peynircioglu b.
6th International Congress of the Molecular Biology of Association of Turkey, 5 - 08 September 2018
- X. Effects of Calcium Hydroxide and N acetyl cystein on Destruction Enzyme Activity in Inflamed Cells
ASLANTAŞ E. E., DOĞAN BUZOĞLU H., CEYHAN D., AKSOY Y., AKKAYA ULUM Z. Y., PEYNİRCİOĞLU B.
European Society of Endodontontology 17. Biennial Congress, barselona, Spain, 16 - 19 September 2015

Supported Projects

Çağdaş Ayvaz D. N., Peynircioglu B., Kelicen Uğur E. P., Akkaya Ulum Z. Y., Esenboğa S., Oskay Halaçlı S., Yaz I., Çiçek B.,
TUBITAK Project, Hiperimmunglobulin E Sendromu Tanılı hastalarda immünenotipik değerlendirmeye ek olarak lenfoid
hücre ve nötrofillerde retinoik asit ve anti-IL23 uyarımı ile ilişkili gen ekspresyon analizi, 2023 - 2025
PEYNİRCİOĞLU B., AKKAYA ULUM Z. Y., Project Supported by Higher Education Institutions, Otoinflamatuvar
Hastalıklarda İnflamazom Bileşenlerinin Hücre Göçü Sürecinde İncelenmesi, 2018 - 2019
PEYNİRCİOĞLU B., KALYONCU U., YERSAL N., AKBABA T. H., ÖZEN S., KORKUSUZ P., AKKAYA ULUM Z. Y., TAVUKÇUOĞLU
Z., Project Supported by Higher Education Institutions, Ailevi Akdeniz Ateşi (AAA) Hastalığında Belirlenen Aday
miRNA'ların Dolaşımındaki Varlığının Eksozomlar Üzerinden Araştırılması, 2017 - 2019
PEYNİRCİOĞLU B., AKKAYA ULUM Z. Y., Project Supported by Higher Education Institutions, Ailevi Akdeniz Ateşi

Hastalığında Görülen İnflamasyon Sürecinde Rol Alan miRNALARIN Tanımlanması, 2017 - 2018
PEYNİRCİOĞLU B., AKKAYA ULUM Z. Y., Project Supported by Higher Education Institutions, Ailevi Akdeniz Ateşi
Patogenezinde mikroRNA20a ve mikroRNA197'nin Olası Rolü, 2017 - 2017
AKKAYA ULUM Z. Y., PEYNİRCİOĞLU B., Project Supported by Higher Education Institutions, Ailevi Akdeniz Ateşi
hastalığında inflamatuvar hücre göçü sürecinin incelenmesi, 2015 - 2015

Metrics

Publication: 25
Citation (WoS): 82
Citation (Scopus): 141
H-Index (WoS): 5
H-Index (Scopus): 6

Invited Talks

MICRORNAS: THEIR ROLE AND THERAPEUTIC EFFECT ON THE INFLAMMATION IN THE FAMILIAL MEDITERRANEAN FEVER DISEASE, Conference, International Molecular Biology and Genetics Symposium For Students/Near East University, Cyprus (Kktc), April 2022
ANTI-INFLAMMATORY ROLE OF MIR-197-3P IN FAMILIAL MEDITERRANEAN FEVER, Conference, 3. Life Science Congress, Turkey, February 2022

Non Academic Experience

National Institutes of Health
Karolinska Enstitüsü, Tıp Bölümü, Solna, Dermatoloji ve Veneroloji Birimi, CMM L8:02
Georg-August Göttingen Üniversitesi, Moleküler Genetik Bölümü, Mikrobiyoloji ve Genetik Enstitüsü
Georg-August Göttingen Üniversitesi
Georg-August Göttingen Üniversitesi