

## Assoc. Prof. Ufuk OKKAY

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABC-2672-2021

Yoksis Researcher ID: 123516

### Education Information

Doctorate, Ataturk University, Sağlık Bilimleri Enstitüsü, Turkey 2013 - 2017

Undergraduate, Ataturk University, Tıp Fakültesi, Turkey 2005 - 2011

### Foreign Languages

English, C2 Mastery

### Research Areas

Medicine, Health Sciences, Internal Medicine Sciences, Pharmacology and Clinical Pharmacology

### Academic Titles / Tasks

Associate Professor, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2022 - Continues

### Academic and Administrative Experience

Assistant Manager of Research and Application Center, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2021 - Continues

Yıl Koordinatörü, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2021 - Continues

Akreditasyon, Sürekli Gelişim ve Yenilenme Kurulu Üyesi, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2021 - Continues

Ölçme Değerlendirme Kurulu Üyesi, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2020 - Continues

Eğitim ve Müfredat Kurulu üyesi, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2020 - Continues

Erasmus Program Department Coordinator, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2020 - 2022

Mevlana Exchange Program Department Coordinator, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2020 - 2022

Farabi Program Department Coordinator, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2020 - 2022

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

- I. **In Vivo Evidence for the Preventive Role of Vaccinium macrocarpon Aiton in Indomethacin-Induced Gastric Ulcer: Focusing on Antioxidant, Anti-Inflammatory and Anti-Apoptotic Mechanisms**  
AYDIN İ. Ç., FERAH OKKAY I., OKKAY U., ÖZKARACA M., Yesilyurt F., Yilmaz A., ÇİÇEK B., KARATAŞ Ö., Kalkandelen H. K., AYDIN B., et al.  
Veterinary Medicine and Science, vol.11, no.1, 2025 (SCI-Expanded)
- II. **Acyclovir provides protection against 6-OHDA-induced neurotoxicity in SH-SY5Y cells through the kynurenine pathway**  
Sezen S., KARADAYI M., Yesilyurt F., Burul F., Gulsahin Y., ÖZKARACA M., OKKAY U., GÜLLÜCE M.  
NeuroToxicology, vol.106, pp.1-9, 2025 (SCI-Expanded)
- III. **Protective effects of arbutin against doxorubicin-induced cardiac damage**  
BİRDAL O., FERAH OKKAY I., OKKAY U., BAYRAM C., Mokthare B., Ertuğrul M. S., HACİMÜFTÜOĞLU A., Aksakal E., KOZA Y., Saygi M., et al.  
MOLECULAR BIOLOGY REPORTS, vol.51, no.1, 2024 (SCI-Expanded)
- IV. **Syringic acid guards against indomethacin-induced gastric ulcer by alleviating inflammation, oxidative stress and apoptosis**  
FERAH OKKAY I., OKKAY U., ÇİÇEK B., KARATAŞ Ö., Yilmaz A., Yesilyurt F., HACİMÜFTÜOĞLU A.  
BIOTECHNIC & HISTOCHEMISTRY, vol.99, no.3, pp.147-156, 2024 (SCI-Expanded)
- V. **Use of bee venom in preventive medicine: An experimental hepatic encephalopathy study in rats**  
Bayraktar M., Hacimüftüoğlu A., Okkay U., Koçak M. N., Köseadağ M., Tekin E., Çelik M., Okkay I., Bayram C., Ertuğrul M., et al.  
VETERINARY MEDICINE AND SCIENCE, vol.10, no.1, 2024 (SCI-Expanded)
- VI. **Bromelain protects against cisplatin-induced ocular toxicity through mitigating oxidative stress and inflammation**  
Ferah Okkay I., Okkay U., Bayram C., Cicek B., Sezen S., Aydin I. C., Mendil A. S., Hacimuftuoglu A.  
DRUG AND CHEMICAL TOXICOLOGY, vol.46, no.1, pp.69-76, 2023 (SCI-Expanded)
- VII. **Assessment of the neuroprotective potential of d-cycloserine and l-serine in aluminum chloride-induced experimental models of Alzheimer's disease: In vivo and in vitro studies**  
Tozlu O. O., TÜRKEZ H., OKKAY U., CEYLAN O., Bayram C., HACİMÜFTÜOĞLU A., Mardinoglu A.  
FRONTIERS IN NUTRITION, vol.9, 2022 (SCI-Expanded)
- VIII. **Hepatoprotective and neuroprotective effect of taxifolin on hepatic encephalopathy in rats**  
Okkay U., Okkay I., Çiçek B., Aydın İ. Ç., Özkaraca M.  
METABOLIC BRAIN DISEASE, vol.37, no.5, pp.1541-1556, 2022 (SCI-Expanded)
- IX. **Centella asiatica extract protects against cisplatin-induced hepatotoxicity via targeting oxidative stress, inflammation, and apoptosis**  
Ferah Okkay I., Okkay U., Aydin I. C., Bayram C., Ertugrul M. S., Mendil A. S., Hacimuftuoglu A.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.22, pp.33774-33784, 2022 (SCI-Expanded)
- X. **A Selective Histamine H4 Receptor Antagonist, JNJ777120, Role on Glutamate Transporter Activity in Chronic Depression**  
YENİ Y., ÇAKIR Z., HACİMÜFTÜOĞLU A., TAGHIZADEHGHALEHJOUGHİ A., OKKAY U., Genc S., YILDIRIM S., SAĞLAM Y. S., Calina D., Tsatsakis A., et al.  
Journal of Personalized Medicine, vol.12, no.2, 2022 (SCI-Expanded)
- XI. **Syringic acid protects against thioacetamide-induced hepatic encephalopathy: Behavioral, biochemical, and molecular evidence**  
Ferah Okkay I., Okkay U., Lutfi Gundogdu O., Bayram C., Sefa Mendil A., Sait Ertugrul M., Hacimuftuoglu A.  
NEUROSCIENCE LETTERS, vol.769, 2022 (SCI-Expanded)
- XII. **Neuroprotective effect of bromelain in 6-hydroxydopamine induced in vitro model of Parkinson's disease**  
Ferah Okkay I., Okkay U., Cicek B., Yilmaz A., Yesilyurt F., Mendil A. S., Hacimuftuoglu A.  
MOLECULAR BIOLOGY REPORTS, vol.48, no.12, pp.7711-7717, 2021 (SCI-Expanded)
- XIII. **Differential effects of inhibitors of PTZ-induced kindling on glutamate transporters and enzyme**

## **expression**

Taspınar N., Hacimuftuoglu A., Butuner S., Togar B., Arslan G., Taghizadehghalehjoughi A., Okkay U., Agar E., Stephens R., Turkez H., et al.

CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, vol.48, no.12, pp.1662-1673, 2021 (SCI-Expanded)

- XIV. **Effects of Achillea millefolium on cisplatin induced ocular toxicity: an experimental study**  
Okkay U., Ferah Okkay I., Aydin I. C., Bayram C., Ertugrul M. S., Gezer A., Hacimuftuoglu A.  
CUTANEOUS AND OCULAR TOXICOLOGY, vol.40, no.3, pp.214-220, 2021 (SCI-Expanded)
- XV. **Achillea millefolium alleviates testicular damage in paclitaxel-intoxicated rats via attenuation of testicular oxido-inflammatory stress and apoptotic responses**  
Okkay U., Ferah Okkay I., Çiçek B., Aydın İ. Ç., Ertugrul M. S., Bayram C., Senyayla S., Sezen S., Mendil A. S., Güven L., et al.  
ANDROLOGIA, vol.53, no.5, 2021 (SCI-Expanded)
- XVI. **Investigation of the Effects of Pregnenolone on Behavioral Tests Against Cisplatin-Induced Toxicity in Rats**  
Okkay U., Bayram C., Hacimüftüoğlu A.  
NEUROENDOCRINOLOGY, vol.111, pp.27, 2021 (SCI-Expanded)
- XVII. **Effect of taxifolin on cisplatin-associated oxidative optic nerve damage in rats**  
Ahiskali I., FERAH OKKAY I., MAMMADOV R., OKKAY U., KESKİN ÇİMEN F., KURT N., SÜLEYMAN H.  
CUTANEOUS AND OCULAR TOXICOLOGY, vol.40, no.1, pp.1-6, 2021 (SCI-Expanded)
- XVIII. **The analgesic effect of metformin on paclitaxel-induced neuropathic pain model in rats: By considering pathological results**  
Hacimüftüoğlu A., Mohammadzadeh M., Taghizadehghalehjoughi A., Taşpınar N., Toğar B., Nalcı K. A., Okkay U., Gündoğdu B.  
JOURNAL OF CANCER RESEARCH AND THERAPEUTICS, vol.16, no.1, pp.34-39, 2020 (SCI-Expanded)
- XIX. **Effect of metformin/irinotecan-loaded poly-lactic-co-glycolic acid nanoparticles on glioblastoma: in vitro and in vivo studies**  
TAGHIZADEHGHALEHJOUGHİ A., HACİMÜFTÜOĞLU A., ÇETİN M., UĞUR A. B., GALATEANU B., MEZHUEV Y., OKKAY U., Taspınar N., Taspınar M., UYANIK A., et al.  
NANOMEDICINE, vol.13, no.13, pp.1595-1606, 2018 (SCI-Expanded)
- XX. **Astrocyte/neuron ratio and its importance on glutamate toxicity: an in vitro voltammetric study.**  
Hacimuftuoglu A., Tatar A., CETIN D., Taspınar N., SARUHAN F., Okkay U., TURKEZ H., UNAL D., STEPHENS R. J., SULEYMAN H.  
Cytotechnology, vol.68, pp.1425-33, 2016 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **The Role of Graphene and Biodentine™ on Proliferation and Odontoblastic Differentiation of Pulp Stem Cells**  
ÇELİKEL P., DERELİOĞLU S., ŞENGÜL F., OKKAY U.  
Current research in dental sciences (Online), 2024 (Peer-Reviewed Journal)
- II. **Neuroprotective Efficacy of Lycopene in a Thioacetamide-Induced Model of Hepatic Encephalopathy: An Experimental Rat Study**  
TEKİN E., BAYRAKTAR M., KOÇAK M. N., OKKAY U., BAYRAM C., HALICI Z., ÇELİK M., KIZILTUNÇ A.  
Authorea, 2024 (Peer-Reviewed Journal)
- III. **Experimental Models in Parkinson's Disease: Advantages and Disadvantages**  
Altunlu Ö., Topatan E., Al-Yaqoobi Z., Burul F., Bayram C., Sezen S., Ferah Okkay I., Okkay U., Hacimüftüoğlu A.  
Ağrı Tıp Fakültesi Dergisi, vol.2, 2024 (Peer-Reviewed Journal)
- IV. **Nicorandil mitigates glutamate excitotoxicity in primary cultured neurons**  
ERTUĞRUL M. S., OKKAY U., YENİ Y., GENÇ S., BALPINAR Ö., FERAH OKKAY I., HACİMÜFTÜOĞLU A.

Medicine Science, vol.13, pp.43-47, 2024 (Peer-Reviewed Journal)

- V. **Investigation of the Antitumoral Activity of Syringic Acid on HT-29 Cells: An In Vitro Study**  
BURUL F., ALTUNLU Ö., FERAH OKKAY I., BAYRAM C., YEŞİLYURT F., OKKAY U.  
Recent Trends in Pharmacology, vol.1, no.3, pp.123-130, 2023 (Peer-Reviewed Journal)
- VI. **Understanding How Madecassic Acid Affects Glioblastoma Cells: Its Antioxidant and Anti-cancer Properties**  
Okkay U., Ferah Okkay I., Yeşilyurt F., Şenyayla S.  
Recent Trends in Pharmacology, vol.1, no.2, pp.63-71, 2023 (Peer-Reviewed Journal)
- VII. **Behavioral Tests Used in Experimental Animal Models**  
Yörük M. A., Okkay U., Budak Savaş A., Bayram C., Sezen S., Ertuğrul M. S., Hacımüftüoğlu A.  
Anatolian Journal of Biology, vol.3, no.2, pp.14-22, 2022 (Peer-Reviewed Journal)
- VIII. **Neuroprotective effect of nicorandil in 6-OHDA induced in vitro model of parkinson's disease**  
OKKAY U., FERAH OKKAY I.  
Medicine Science International Medical Journal, vol.11, no.1, pp.224-227, 2022 (Peer-Reviewed Journal)
- IX. **Beneficial effects of linagliptin in cell culture model of Parkinson's disease**  
OKKAY U., FERAH OKKAY I.  
The European Research Journal, vol.8, no.2, pp.242-246, 2022 (Peer-Reviewed Journal)
- X. **Does Intravitreal Dopamine Agonist and Antagonist Administration Have Effects on the Brain? An Experimental Study in Rats**  
Koçak M. N., Ateş O., Hacımüftüoğlu A., Ateş İ., Tekin E., Ceylan O., Okkay U.  
EURASIAN JOURNAL OF MEDICINE, vol.54, no.1, pp.54-60, 2022 (ESCI)
- XI. **In vitro neuroprotective effects of allicin on Alzheimer's disease model of neuroblastoma cell line**  
OKKAY U., FERAH OKKAY I.  
Journal of Surgery and Medicine, vol.6, no.2, pp.209-212, 2022 (Peer-Reviewed Journal)
- XII. **Etanercept Protects Neurons Against Glutamate-Induced Neurotoxicity: An In Vitro Study**  
FERAH OKKAY I., OKKAY U., YENİ Y., BALPINAR Ö., HACİMÜFTÜOĞLU A.  
Ataturk Universitesi Veteriner Bilimleri Dergisi, vol.17, no.2, 2022 (Scopus)
- XIII. **Effects of Rhodiola rosea on indomethacin-induced gastric injury**  
Ferah Okkay I., Okkay U., Karataş Ö.  
Dicle Medical Journal, vol.48, no.4, pp.732-739, 2021 (Peer-Reviewed Journal)
- XIV. **Antidepressant-like effects of ceftriaxone in chronic unpredictable mild stress model in rats: The importance of reuptake time of glutamate**  
Binnetoğlu D., Arıcıoğlu F., Özcan H., Okkay U., Hacımüftüoğlu A.  
Clinical and Experimental Health Sciences, vol.9, pp.294-299, 2019 (Peer-Reviewed Journal)
- XV. **Beneficial Effects of Achillea Millefolium and Aesculum Hippocastanum Extracts on Glutamate Excitotoxicity in the Primary Cultured Neurons.**  
Ferah I., Okkay U., Çiçek B., Yeşilyurt F., Yılmaz A., Hacımüftüoğlu A.  
Advances in Clinical Toxicology, vol.4, no.4, 2019 (Peer-Reviewed Journal)
- XVI. **Nöropatik Ağrı Hayvan Modelleri**  
OKKAY U., HACİMÜFTÜOĞLU A.  
Türkiye Klinikleri Journal of Pharmacology Special Topics, vol.4, pp.61-68, 2016 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **SECOND BY SECOND RE-UPTAKE TIME CHANGING OF GLUTAMATE ON DEPRESSION INDUCED RATS**  
HACİMÜFTÜOĞLU A., NALCI K. A., ERTUĞRUL M. S., AYDIN İ. Ç., YENİ Y., Yeşilyurt F., NİŞANCI B., SARAÇOĞLU N., ÇAVUŞOĞLU B., BİNNETOĞLU D., et al.  
FENS Regional Meeting, 10 - 13 July 2019

## Supported Projects

- Akpınar B., Kapakin S., Okkay U., Efgan M. G., Öz Saraç M., Cebeci Z., Fiş Topaloğlu S., Küçükosman S. S., Hızal A., Doymuş Ö., et al., Other International Funding Programs, Collaborative Research on Pain Management, 2023 - 2025
- Yörük M. A., Bayram C., Okkay U., Özkaraca M., Aygün Ü., Sezen S., Ocak H., Project Supported by Higher Education Institutions, Obez ve Sağlıklı Sıçanlarda Oluşturulacak Femur Kırık Modelinde EZETEC® PLUS'un İyileştirici Etkisinin Araştırılması, 2023 - 2025
- HACİMÜFTÜOĞLU A., OKKAY U., ÇELEBİ D., ÜNVER Y., BUDAK H., ÖZDEMİR H., Project Supported by Higher Education Institutions, Yeni Korona Virüs Hastalığı 2019a COVID19 Karşı İki Farklı Ekspresyon Sistemi Kullanılarak Aşı Geliştirilmesi, 2022 - 2024
- HACİMÜFTÜOĞLU A., OKKAY U., Project Supported by Higher Education Institutions, (ULUSLARARASI) MİKROELEKTROTLARI ÇALIŞTIRAN MİKROMOLAR ÖLÇÜM YAPABİLEN KABLOSUZ CİHAZ (MEMİR), 2020 - 2023
- HACİMÜFTÜOĞLU A., OKKAY U., Project Supported by Higher Education Institutions, (ULUSLARARASI) MİKROELEKTROT YAPIMI VE MİKROELEKTROTLA NÜROTRANSMİTTER ÖLÇÜMÜ (MEYMEN), 2020 - 2023
- KESMEZ CAN F., GÜLLÜCE M., FERAH OKKAY I., BAYRAM C., ÇİÇEK B., HACİMÜFTÜOĞLU A., SEZEN S., GEZER A., OKKAY U., Project Supported by Higher Education Institutions, Juniperus oxycedrus tohumlarından elde edilecek iki farklı ekstraktın sıçanlarda oluşturulacak kontamine ve kontamine olmayan yara iyileşmesindeki etkisinin araştırılması, 2020 - 2021
- TUNCER K., OKKAY U., PÜR B., GÜLLÜCE M., HACİMÜFTÜOĞLU A., FERAH OKKAY I., DEMİR M., ÇİÇEK B., Project Supported by Higher Education Institutions, Sıçanlarda Deneysel Olarak Oluşturulan Kırık Modelinde Vicia Ervilia Ekstresinin Etkilerinin Araştırılması, 2020 - 2021
- OKKAY U., ÖZKARACA M., FERAH OKKAY I., ÇİÇEK B., AYDIN İ. Ç., Project Supported by Higher Education Institutions, Deneysel Olarak Hepatik Ensefalopati Oluşturulmuş Sıçanlarda Artichoke, Taksifolin, Radix Astragali ve Sirinjik asitin Etkinliğinin İncelenmesi, 2019 - 2021
- ÇAKIR Z., OKKAY U., HACİMÜFTÜOĞLU A., YENİ Y., SAĞLAM Y. S., TAGHIZADEHGHAEHJOUGHİ A., Project Supported by Higher Education Institutions, Ratlarda Oluşturulan Kronik Depresyon Modelinde Tedavi Amacıyla Kullanılan Seftriakson Valproik Asit JNJ 7777120 ve Sertralin İlaçlarının Astrositik JWA Gen Ekspresyonu ile Glutamat Taşıyıcı Ekspresyon Seviyeleri Üzerine Olan Etkilerinin Araştırılması, 2019 - 2021
- HACİMÜFTÜOĞLU A., OKKAY U., Project Supported by Higher Education Institutions, "DENEYSEL PARKİNSON HASTALIĞI MODELİ OLUŞTURULMUŞ RATLARDA GLUTAMAT GERİ ALINIM PARAMETRELERİNİN ÖLÇÜLMESİ VE YENİ TEDAVİ ÖNERİLERİ", 2015 - 2019
- HACİMÜFTÜOĞLU A., TAŞPINAR M., OKKAY U., SAĞSÖZ M. E., Project Supported by Higher Education Institutions, DENEYSEL ALZHEİMER HASTALIĞI MODELİNDE OPTOGENETİK VE DAVRANIŞSAL FARKLILIKLARIN GLUTAMAT TRANSPORTER AKTİVATÖRLERİYLE DÜZELTİLMESİ, 2015 - 2019

## Patent

- Ferah Okkay I., Okkay U., Hacımüftüoğlu A., Özkaraca M., Güllüce M., DİMETİL 3,8-DİOKSATRİSİKLO[3.2.1.0<sup>2,4</sup>]OKTA-6-EN-6,7-DİKARBOKSİLAT VE TÜREVLERİNİN YARA, ENFEKTE YARA VEDİYABETİK YARA İYİLEŞMESİNDE VE DİRENÇLİ HASTANE ENFEKSİYONLARINDA KULLANIMI, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 012203 , Standard Registration, 2023

## Activities in Scientific Journals

- International Journal of Biomedical Engineering and Clinical Science(IJBECS), Committee Member, 2023 - Continues
- JOURNAL OF CLINICAL MEDICINE, Committee Member, 2023 - Continues
- New trends in medicine sciences, Committee Member, 2022 - Continues
- FRONTIERS IN NUTRITION, Committee Member, 2022 - Continues

## **Scientific Refereeing**

FRONTIERS IN NUTRITION, SCI Journal, December 2022  
FRONTIERS IN NUTRITION, SCI Journal, September 2022  
FRONTIERS IN NUTRITION, SCI Journal, September 2022  
FRONTIERS IN NUTRITION, SCI Journal, September 2022  
FRONTIERS IN NUTRITION, SCI Journal, September 2022  
INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, Journal Indexed in SCI-E, August 2022  
JOURNAL OF INFLAMMATION RESEARCH, Journal Indexed in SCI-E, August 2022  
ONCOLOGY LETTERS, Journal Indexed in SCI-E, July 2022  
FRONTIERS IN NUTRITION, SCI Journal, July 2022  
EXPERIMENTAL AND THERAPEUTIC MEDICINE, Journal Indexed in SCI-E, July 2022  
FRONTIERS IN NUTRITION, SCI Journal, July 2022  
DRUG DESIGN, DEVELOPMENT AND THERAPY, Journal Indexed in SCI-E, June 2022  
FRONTIERS IN NUTRITION, SCI Journal, June 2022  
EXPERIMENTAL AND THERAPEUTIC MEDICINE, Journal Indexed in SCI-E, June 2022  
ONCOLOGY LETTERS, Journal Indexed in SCI-E, May 2022  
EXPERIMENTAL AND THERAPEUTIC MEDICINE, Journal Indexed in SCI-E, May 2022  
FRONTIERS IN NUTRITION, SCI Journal, May 2022  
MOLECULAR MEDICINE REPORTS, Journal Indexed in SCI-E, April 2022  
Biomedical Reports, Journal Indexed in ESCI, April 2022  
DRUG DESIGN, DEVELOPMENT AND THERAPY, Journal Indexed in SCI-E, April 2022  
Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, SCI Journal, March 2022  
MOLECULAR MEDICINE REPORTS, Journal Indexed in SCI-E, February 2022

## **Metrics**

Publication: 88  
Citation (WoS): 174  
Citation (Scopus): 228  
H-Index (WoS): 9  
H-Index (Scopus): 10

## **Non Academic Experience**

Erzurum İbrahim Hakkı Pasinler Devlet Hastanesi