

# **Prof. Ahmet HACIMÜFTÜOĞLU**

## **Personal Information**

**Web:** <https://avesis.atauni.edu.tr/ahmeth>

**Address:** Atatürk Univ. Tıp Fak. Tıbbi Farmakoloji AbD

## **International Researcher IDs**

ScholarID: JLh9QWMAAAJ

ORCID: 0000-0002-9658-3313

Publons / Web Of Science ResearcherID: U-9109-2018

Yoksis Researcher ID: 32387

## **Education Information**

Doctorate, Ataturk University, Sağlık Bilimleri Enstitüsü, Tıbbi Biyoloji Ve Genetik, Turkey 2002 - 2022

Post Doctorate, Ohio State University, Medical School, Medical Physiology And Cell Biology, United States Of America 2005 - 2006

Expertise In Medicine, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, Turkey 1999 - 2003

Undergraduate, İstanbul University, İstanbul Medical Faculty, İstanbul Tıp, Turkey 1993 - 1999

## **Certificates, Courses and Trainings**

Health&Medicine, Optogenetik Kursu, İstanbul Medipol Üniversitesi, 2015

## **Dissertations**

Doctorate, PAKLITAKSELİN OLUŞTURDUĞU KRONİK AĞRIDA GLUTAMAT TAŞIYICILARININ EKSPRESYON DEĞİŞİMLERİNİN TEDAVİYE CEVAPLA İLİŞKİSİ, Ataturk University, Tıp Fakültesi, Dahili Tip Bilimleri, 2022

Expertise In Medicine, Yenidoğan sıçan beyin kültürlerinde farmakolojik histamin reseptör altiplemesi ve histaminin olası nörotoksik etkilerinde H1, H2, H3 blokerlerinin rolü, Ataturk University, Tıp Fakültesi, 2003

## **Research Areas**

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

## **Academic Titles / Tasks**

Professor, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2013 - Continues

Associate Professor, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2007 - 2013

Assistant Professor, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2003 - 2007

Research Assistant, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 1999 - 2003

## **Academic and Administrative Experience**

Aşı Odak Alanı Koordinatörü, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2022 - Continues  
Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2021 - Continues  
Director of the Center, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2021 - Continues  
Academic Performance D. Board Member, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2020 - Continues  
İlaç Geliştirme Projeleri Değerlendirme Kurulu Üyesi, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2020 - Continues  
Fakülte Akademik Kurul Üyesi, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2019 - Continues  
Head of Department, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2013 - 2022  
Academic Performance D. Board Member, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2018 - 2019  
University Executive Board Member, Ataturk University, 2015 - 2017  
Yıl Koordinatörü, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2006 - 2009

## Advising Theses

Hacımüftüoğlu A., Araşidonik Asit Türevlerinin Hücre Kültürü ve Sıçanlarda Oluşturulan Deneysel Alzheimer Modellerinde Etkilerinin Araştırılması ve Moleküller Modelleme, Doctorate, F.YEŞİLYURT(Student), 2023  
Hacımüftüoğlu A., Sıçanlarda Oluşturulan Alzheimer Hastalığı Modelinde Gentisik Asit ve Erusik Asit'in Tedavi Edici Etkilerinin İncelenmesi, Doctorate, İ.GECİLİ(Student), 2023  
Hacımüftüoğlu A., Anti-oksidan Etkili Olan Diacerein, Silazapril ve Benazepril'in İn Vitro Anti-parkinson Etkilerinin Araştırılması, Postgraduate, Ö.ALTURNLU(Student), 2022  
Hacımüftüoğlu A., Ratlarda paklitakselle oluşturulan nöropatik ağrı modelinde, antipsikotiklerin etkilerinin araştırılması, Doctorate, A.BUDAK(Student), 2022  
Hacımüftüoğlu A., Deneysel alzheimer modeli oluşturulmuş serbest hareket edebilen sıçanlarda ampirasidin ve memantin tedavilerinin nörotransmitter değişimleri üzerindeki etkileri, Doctorate, M.SAİT(Student), 2022  
Hacımüftüoğlu A., Deneysel Alzheimer Modeli Oluşturulan ve Serbest Hareket Edebilen Sıçanlarda Glutamat Geri Alımım Sürelerinin İn Vivo Voltametri Tekniği ile Değerlendirilmesi, Doctorate, C.BAYRAM(Student), 2022  
Hacımüftüoğlu A., Çakır Z., Ratlarda oluşturulan kronik depresyon modelinde tedavi amacıyla kullanılan seftriakson, valproik asit, JNJ 7777120 ve sertraline ilaçlarının astrositik JWA gen ekspresyonu ile glutamat taşıyıcı ekspresyon seviyeleri üzerine olan etkilerinin araştırılması, Doctorate, Y.YENİ(Student), 2022  
Hacımüftüoğlu A., Melatonin agonistleri ile kombinasyon dot sentezi, karakterizasyonu ve çeşitli kanser hücre hatları üzerindeki etkilerinin araştırılması, Doctorate, Ö.BALPINAR(Student), 2021  
Çakır Z., Hacımüftüoğlu A., Ekzosom tabanlı ilaç taşıma sisteminin glioblastoma tedavisinde kullanım potansiyelinin in vitro ve in vivo deneysel modellerde araştırılması, Doctorate, S.GENÇ(Student), 2021  
Hacımüftüoğlu A., Sıçanlarda oluşturulan depresyon modelinde ve tedavisinde elektro-kimyasal indüksiyonla farklı beyin bölgelerinde oluşturulan glutamat düzeyinin hastalık parametrelerine etkileri, Doctorate, K.Alp(Student), 2020  
Hacımüftüoğlu A., Deneysel parkinson hastalığı modeli oluşturulmuş ratlarda glutamat geri alınım parametrelerinin ölçülmesi ve yeni tedavi önerileri, Doctorate, İ.Çağrı(Student), 2020  
Hacımüftüoğlu A., Ratlarda oluşturulan nöropatik ağrı modelinde H1,H2 ve H3 reseptör antagonist ilaçların etkilerinin araştırılması, Doctorate, M.MOHAMMADZADEH(Student), 2019  
Çakır Z., HACİMÜFTÜÖĞLU A., EKZOSOM TABANLI İLAÇ TAŞIMA SİSTEMİNİN GLİOBLASTOMA TEDAVİSİNDE KULLANIM POTANSİYELİNİN İN VİTRO VE İN VİVO DENEYSEL MODELLERDE ARAŞTIRILMASI, Doctorate, S.GENÇ(Student), 2019  
Hacımüftüoğlu A., Sıçanlarda antipsikotiklerin kilo alıran yan etkileri üzerine metforminin etkisi, Postgraduate, S.BÜTÜNER(Student), 2018  
HACİMÜFTÜÖĞLU A., Sıçanlarda Pentilentetrazolle Oluşturulan Deneysel Tutuşma Modelinde Glutamat Taşıyıcılarının Rolü, Doctorate, N.TAŞPINAR(Student), 2017  
Hacımüftüoğlu A., Deneysel alzheimer modeli oluşturulmuş sıçanlarda glutamat geri alınım parametre değişimi ve yeni tedavi önerileri, Doctorate, U.OKKAY(Student), 2017  
HACİMÜFTÜÖĞLU A., Seftriaksonun eksitator aminoasit taşıyıcı 1 (eaat1), eaat2, eaat3 blokerleriyle birlikte kullanımının sıçan glioblastoma multiforme hücre hattı üzerindeki etkilerinin incelenmesi, Postgraduate, A.Kemal(Student), 2016

HACİMÜFTÜOĞLU A., Ratlarda Deneysel Akut Karaciğer Yetmezliği Modelinde Serebral Glutamat Düzeylerinin in-vivo Voltametrik Metotla İncelenmesi ve Minosiklin'in Bu Düzeyler Üzerine Etkisi, Doctorate, F.SARUHAN(Student), 2016

HACİMÜFTÜOĞLU A., Antikanser ilaçların Nöron ve Glioblastoma Multiforme Kanser Kültüründe Glutamat Taşıyıcıları ve Reseptörleri Üzerindeki Etkileri, Doctorate, A.Taghizadehgalecguhi(Student), 2016

Hacımüftüoğlu A., Myokardiyal iskemik ardkoşullanmanın nekroz üzerindeki koruyuculuğunda melatoninin fizyolojik ve farmakolojik etkileri ve mitokondriyal uncoupling proteinleri 2 ve 3'ün rolü, Postgraduate, G.ASLAN(Student), 2016

HACİMÜFTÜOĞLU A., Sıçanlarda paklitakselle oluşturulan nöropatik ağrı modelinde metformin'in etkisi, Postgraduate, M.Muhammedzadeh(Student), 2015

HACİMÜFTÜOĞLU A., Metformin hcl/irinotekan yüklü plga nanopartiküllerinin glioblastoma multiforme üzerindeki etkilerinin in vivo ve in vitro olarak değerlendirilmesi, Doctorate, A.Taghizadehgalechughı(Student), 2015

HACİMÜFTÜOĞLU A., Depresyon oluşturulmuş sıçanlarda glutamat nörotransmitter aktivite değişimlerinin tespiti ve beta laktam antibiyotiklerinin depresyon tedavisindeki muhtemel etkileri, Doctorate, D.ÇETİN(Student), 2014

HACİMÜFTÜOĞLU A., Paklitaksel ve sisplatin nörotoksitesinin sıçan nöron kültüründe antioksidan parametrelerle ilişkisi, Postgraduate, D.ÇETİN(Student), 2011

HACİMÜFTÜOĞLU A., Antikanser ilaçların oluşturduğu nöropatik ağrı ve glutamat taşıyıcı aktivite değiştiricilerinin bu ağrının tedavisindeki rolleri, Postgraduate, F.SARUHAN(Student), 2010

HACİMÜFTÜOĞLU A., 2,3 dihidro-7H-cycloheptan [1, 4]-dioxin'in sıçanlarda antiinflammatuar aktivitesi, Postgraduate, N.Öner(Student), 2009

HACİMÜFTÜOĞLU A., Borik asitin yeni doğan sıçan beyin hücre kültürlerinde glutamatla oluşturulan nörotoksitesiteye etkisi, Postgraduate, A.Caner(Student), 2009

## Jury Memberships

Doctoral Examination, Doctoral Examination, Ataturk University, June, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2022

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

- I. **AuNPs with Cynara scolymus leaf extracts rescue arsenic-induced neurobehavioral deficits and hippocampal tissue toxicity in Balb/c mice through D1R and D2R activation**  
ÇİÇEK B., HACİMÜFTÜOĞLU A., Yeni Y., KUZUCU M., GENÇ S., Cetin A., YAVUZ E., DANIŞMAN B., LEVENT A., ÖZDOKUR K. V., et al.  
Environmental Toxicology and Pharmacology, vol.107, 2024 (SCI-Expanded)
- II. **Therapeutic potential of ginsenoside compound K in managing tenocyte apoptosis and extracellular matrix damage in diabetic tendinopathy**  
Cho W., Oh H., HASSIBELNABY A. M. A., HACİMÜFTÜOĞLU A., Jeong J. H., Jung T. W.  
Tissue and Cell, vol.86, 2024 (SCI-Expanded)
- III. **Effect of fentanyl and remifentanil on neuron damage and oxidative stress during induction neurotoxicity**  
Taghizadehghalehjoughi A., Naldan M. E., YENİ Y., Genc S., Hacimuftuoglu A., Isik M., Necip A., BOLAT İ., YILDIRIM S., Beydemir S., et al.  
JOURNAL OF CELLULAR AND MOLECULAR MEDICINE, vol.28, no.4, 2024 (SCI-Expanded)
- IV. **Role of parthenolide in paclitaxel-induced oxidative stress injury and impaired reproductive function in rat testicular tissue**  
Toraman E., Budak B., Bayram C., Sezen S., Mokhtare B., Hacimueftueoglu A.  
CHEMICO-BIOLOGICAL INTERACTIONS, vol.387, pp.110793-0, 2024 (SCI-Expanded)
- V. **Use of bee venom in preventive medicine: An experimental hepatic encephalopathy study in rats**  
Bayraktar M., Hacımüftüoğlu A., Okkay U., Koçak M. N., Kösedağ M., Tekin E., Çelik M., Okkay I., Bayram C., Ertuğrul

M. S., et al.

VETERINARY MEDICINE AND SCIENCE, vol.10, no.1, 2024 (SCI-Expanded)

- VI. **Parthenolide as a potential analgesic in the treatment of paclitaxel-induced neuropathic pain: the rat modeling**  
TORAMAN E., BAYRAM C., Sezen S., ÖZKARACA M., HACİMÜFTÜOĞLU A., BUDAK H.  
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.396, no.12, pp.3707-3721, 2023 (SCI-Expanded)
- VII. **Cell membrane-camouflaged bufalin targets NOD2 and overcomes multidrug resistance in pancreatic cancer**  
Zhang W., Fan Y., Zhang J., Shi D., Yuan J., Ashrafizadeh M., Li W., Hu M., HASSIBELNABY A. M. A., HACİMÜFTÜOĞLU A., et al.  
Drug Resistance Updates, vol.71, 2023 (SCI-Expanded)
- VIII. **Green synthesis, characterization of melatonin-like drug bioconjugated CoS quantum dots and its antiproliferative effect on different cancer cells**  
Balpinar Ö., NADAROĞLU H., HACİMÜFTÜOĞLU A.  
Molecular Biology Reports, vol.50, no.11, pp.9143-9151, 2023 (SCI-Expanded)
- IX. **Assessment of antimicrobial activity and In Vitro wound healing potential of ZnO nanoparticles synthesized with *Capparis spinosa* extract**  
Sezen S., Ertuğrul M. S., Balpinar Ö., Bayram C., Özkaraca M., Okkay I., Hacımüftüoğlu A., Güllüce M.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.55, pp.117609-117623, 2023 (SCI-Expanded)
- X. **Evaluation the Effects of *Helichrysum plicatum* Subsp. *pseudoplicatum* on an In-Vitro Wound Model Using Human Dermal Fibroblast Cells**  
Miloglu F., Akpinar A., Güven L., Demirkaya A. K., Gundogdu G., Nalcı K. A., Hacimuftuoglu A.  
INTERNATIONAL JOURNAL OF LOWER EXTREMITY WOUNDS, vol.22, no.2, pp.401-408, 2023 (SCI-Expanded)
- XI. **Electrochemical determination of nitrate on Ag nanoparticles-decorated poly (direct blue 15) electrodes**  
Öztürk Doğan H., Akbulak T., Nadaroğlu H., Hacımüftüoğlu A.  
ELECTROANALYSIS, vol.35, no.9, 2023 (SCI-Expanded)
- XII. **Adipokine gremlin-1 promotes hepatic steatosis via upregulation of ER stress by suppressing autophagy-mediated signaling**  
Choi S. W., Oh H., Park S. Y., Cho W., HASSIBELNABY A. M. A., HACİMÜFTÜOĞLU A., Jeong J. H., Jung T. W.  
JOURNAL OF CELLULAR PHYSIOLOGY, vol.238, no.5, pp.966-975, 2023 (SCI-Expanded)
- XIII. **Glioblastoma cell-derived exosomes induce cell death and oxidative stress in primary cultures of olfactory neurons. Role of redox stress**  
Yeni Y., TAGHIZADEHGHALEHJOUGHİ A., GENÇ S., HACİMÜFTÜOĞLU A., YILDIRIM S., BOLAT İ.  
Molecular Biology Reports, vol.50, no.5, pp.3999-4009, 2023 (SCI-Expanded)
- XIV. **In Vivo Evaluation of Nanoemulsion Formulations for Metformin and Repaglinide Alone and Combination**  
Kaplan A. B., Cetin M., Bayram C., Yildirim S., Taghizadehghalehjoughi A., Hacimuftuoglu A.  
JOURNAL OF PHARMACEUTICAL SCIENCES, vol.112, no.5, pp.1411-1426, 2023 (SCI-Expanded)
- XV. **Chlorogenic Acid Attenuates Doxorubicin-Induced Oxidative Stress and Markers of Apoptosis in Cardiomyocytes via Nrf2/HO-1 and Dityrosine Signaling.**  
Cicek B., Hacimuftuoglu A., Yeni Y., Danisman B., Ozkaraca M., Mokhtare B., Kantarci M., Spanakis M., Nikitovic D., Lazopoulos G., et al.  
Journal of personalized medicine, vol.13, no.4, 2023 (SCI-Expanded)
- XVI. **Literature analysis on asparagus roots and review of its functional characterizations**  
Guo Y., Liu Z., Wan Y., Zhang Y., Abdu H. I., Yang M., Pei J., Yue T., Zhang X., HACİMÜFTÜOĞLU A., et al.  
FRONTIERS IN NUTRITION, vol.9, 2023 (SCI-Expanded)
- XVII. **Oroxylin-A alleviates hepatic lipid accumulation and apoptosis under hyperlipidemic conditions via AMPK/FGF21 signaling**  
Cho W., Choi S. W., Oh H., HASSIBELNABY A. M. A., HACİMÜFTÜOĞLU A., Jeong J. H., Song J., Shin Y. K., Jung T. W.  
Biochemical and Biophysical Research Communications, vol.648, pp.59-65, 2023 (SCI-Expanded)

- XVIII. **Humulus japonicus Extract Ameliorates Hepatic Steatosis Through the PPAR $\alpha$ -Mediated Suppression of Alcohol-Induced Oxidative Stress**  
Cho W., Park S. Y., Oh H., Abd El-Aty A. M. A., HACIMÜFTÜOĞLU A., Kim D., Jung T. W., Jeong J. H.  
JOURNAL OF MEDICINAL FOOD, vol.26, pp.193-200, 2023 (SCI-Expanded)
- XIX. **A Comprehensive Review of Pesticide Residues in Peppers**  
Shim J., Eun J., Zaky A. A., Hussein A. S., HACIMÜFTÜOĞLU A., HASSIBELNABY A. M. A.  
Foods, vol.12, no.5, 2023 (SCI-Expanded)
- XX. **Ellagic Acid and Its Metabolites as Potent and Selective Allosteric Inhibitors of Liver Pyruvate Kinase**  
Battisti U. M., Gao C., Akladios F., Kim W., Yang H., BAYRAM C., BOLAT İ., KILIÇLİOĞLU M., Yuksel N., Tozlu O. O., et al.  
NUTRIENTS, vol.15, no.3, 2023 (SCI-Expanded)
- XXI. **Sorafenib Alleviates Inflammatory Signaling of Tumor Microenvironment in Precancerous Lung Injuries**  
Çiçek B., Hacımüftüoğlu A., Kuzucu M., Cetin A., Yeni Y., Genç S., Yıldırım S., Bolat İ., Kantarci M., Gül M., et al.  
PHARMACEUTICALS, vol.16, no.2, 2023 (SCI-Expanded)
- XXII. **Combined metabolic activators improve metabolic functions in the animal models of neurodegenerative diseases**  
TÜRKEZ H., Altay O., YILDIRIM S., Li X., Yang H., BAYRAM C., BOLAT İ., Oner S., Tozlu O. O., Arslan M. E., et al.  
Life Sciences, vol.314, 2023 (SCI-Expanded)
- XXIII. **Renoprotective Effect of Taxifolin in Paracetamol-Induced Nephrotoxicity: Emerging Evidence from an Animal Model**  
Topal I., ÖZDAMAR M. Y., Cataklı T., Malkoc İ., Hacimuftuoglu A., Mamoulakis C., Tsatsakis A., Tsarouhas K., Tsitsimpikou C., Taghizadehghalehjoughi A.  
Journal of Clinical Medicine, vol.12, no.3, 2023 (SCI-Expanded)
- XXIV. **Myokine musclin alleviates lipid accumulation in 3T3-L1 adipocytes through PKA/p38-mediated upregulation of lipolysis and suppression of lipogenesis**  
Choi S. W., Oh H., Park S. Y., Cho W., HASSIBELNABY A. M. A., HACIMÜFTÜOĞLU A., Jeong J. H., Jung T. W.  
Biochemical and Biophysical Research Communications, vol.642, pp.113-117, 2023 (SCI-Expanded)
- XXV. **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)
- XXVI. **Fe3O4 Nanoparticles in Combination with 5-FU Exert Antitumor Effects Superior to Those of the Active Drug in a Colon Cancer Cell Model**  
GENÇ S., TAGHIZADEHGHALEHJOUGHİ A., YENİ Y., Jafarizad A., HACIMÜFTÜOĞLU A., Nikitovic D., Docea A. O., Mezhuev Y., Tsatsakis A.  
Pharmaceutics, vol.15, no.1, 2023 (SCI-Expanded)
- XXVII. **Combined metabolic activators improve cognitive functions in Alzheimer's disease patients: a randomised, double-blinded, placebo-controlled phase-II trial**  
Yulug B., Altay O., Li X., Hanoglu L., Cankaya S., Lam S., Velioglu H. A., Yang H., Coskun E., Idil E., et al.  
TRANSLATIONAL NEURODEGENERATION, vol.12, no.1, 2023 (SCI-Expanded)
- XXVIII. **A combination of omega-3 and exercise reduces experimental Achilles tendinopathy induced with a type-1 collagenase in rats**  
Gundogdu G., Tascı S. Y., Gundogdu K., TERİM KAPAKİN K. A., DEMİRKAYA A. K., Nalcı K. A., Gundogdu M., HACIMÜFTÜOĞLU A., HASSIBELNABY A. M. A.  
APPLIED PHYSIOLOGY NUTRITION AND METABOLISM, vol.48, pp.62-73, 2023 (SCI-Expanded)
- XXIX. **Investigation on effects of walnut essential oil against glutamate toxicity on cortex neuron and LN405 cancer cell lines, diabetes, and some microorganisms**  
Yesilyurt F., Yuca H., Karakaya S., Tekman E., Demirci B., Taghizadehghalehjoughı A., Göger G., Sahinoz M. Z., Nobariezaeyeh M., Hacımüftüoğlu A., et al.  
JOURNAL OF ESSENTIAL OIL RESEARCH, vol.35, no.4, pp.372-381, 2023 (SCI-Expanded)
- XXX. **In Vitro Transcriptome Analysis of Cobalt Boride Nanoparticles on Human Pulmonary Alveolar Cells**

- Arslan M. E., Tatar A., Yıldırım Ö. Ç., Şahin İ. O., Ozdemir O., Sönmez E., Hacımüftüoğlu A., Acikyıldız M., Geyikoğlu F., Mardinoğlu A., et al.  
MATERIALS, vol.15, no.23, 2022 (SCI-Expanded)
- XXXI. **Artichoke (*Cynara Scolymus*) Methanolic Leaf Extract Alleviates Diethylnitrosamine-Induced Toxicity in BALB/c Mouse Brain: Involvement of Oxidative Stress and Apoptotically Related Klotho/PPAR $\gamma$  Signaling**  
ÇİÇEK B., GENÇ S., YENİ Y., KUZUCU M., Cetin A., YILDIRIM S., BOLAT İ., Kantarci M., HACİMÜFTÜOĞLU A., Lazopoulos G., et al.  
Journal of Personalized Medicine, vol.12, no.12, 2022 (SCI-Expanded)
- XXXII. **The Evaluation of the Effects of Nanoemulsion Formulations Containing Boron and/or Zinc on the Wound Healing in Diabetic Rats**  
Gundogdu G., Nalci K. A., Kaplan A. B., Gundogdu K., Demirci T., Miloglu F., Hacimuftuoglu A., Cetin M.  
INTERNATIONAL JOURNAL OF LOWER EXTREMITY WOUNDS, vol.21, no.4, pp.492-501, 2022 (SCI-Expanded)
- XXXIII. **Sclerostin aggravates insulin signaling in skeletal muscle and hepatic steatosis via upregulation of ER stress by mTOR-mediated inhibition of autophagy under hyperlipidemic conditions**  
Oh H., Park S. Y., Cho W., HASSIBELNABY A. M. A., HACİMÜFTÜOĞLU A., Kwon C. H., Jeong J. H., Jung T. W.  
JOURNAL OF CELLULAR PHYSIOLOGY, vol.237, no.11, pp.4226-4237, 2022 (SCI-Expanded)
- XXXIV. **Stachydrine alleviates lipid-induced skeletal muscle insulin resistance via AMPK/HO-1-mediated suppression of inflammation and endoplasmic reticulum stress**  
Jung T. W., Kim H., Park S. Y., Cho W., Oh H., Lee H. J., Abd El-Aty A. M., Hacimuftuoglu A., Jeong J. H.  
JOURNAL OF ENDOCRINOLOGICAL INVESTIGATION, vol.45, no.11, pp.2181-2191, 2022 (SCI-Expanded)
- XXXV. **Cerebrolysin Alleviating Effect on Glutamate-Mediated Neuroinflammation Via Glutamate Transporters and Oxidative Stress**  
Avci S., Gunaydin S., KURTCAN N. S., Sulukoglu E. K., Polat O. E., Gecili I., YENİ Y., Yilmaz A., Genc S., HACİMÜFTÜOĞLU A., et al.  
JOURNAL OF MOLECULAR NEUROSCIENCE, vol.72, pp.2292-2302, 2022 (SCI-Expanded)
- XXXVI. **Deteriorated Vascular Homeostasis in Hypertension: Experimental Evidence from Aorta, Brain, and Pancreatic Vasculature**  
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## Supported Projects

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GÜLLÜCE M., KARADAYI M., İSAOĞLU M., HACİMÜFTÜOĞLU A., Project Supported by Higher Education Institutions,

Antikanser İlaç Adayı Olma Potansiyeline Sahip Yeni Allosterik SHP2 İnhibitörlerinin Genotoksik Özelliklerinin Araştırılması, 2022 - 2022

Hacimüftuoğlu A., Güllüce M., Karadayı M., TUBITAK Project, Hedefe Dayalı Sanal Tarama Yöntemleri İle Keşfedilmiş Dipeptit Yapılı Üç Adet Yeni Allosterik SHP-2 İnhibitör Adayının In Vitro SHP-2 Enzim İnhibitörü Aktivitelerinin, MCF-7 Hücre Serisi Üzerindeki Seçici Sitotoksik-Antikanser Etkinlikleri, 2021 - 2022

ÇAKIR Z., GENÇ S., HACİMÜFTÜOĞLU A., Project Supported by Higher Education Institutions, Ekzosom tabanlı ilaç taşıma sisteminin glioblastoma tedavisinde kullanım potansiyelinin in vitro ve in vivo deneysel modellerde araştırılması, 2020 - 2022

HACİMÜFTÜOĞLU A., Project Supported by Higher Education Institutions, Melatonin Agonistleri ile Kombine Quantum Dot Sentezi Karakterizasyonu ve Çeşitli Kanser Hücre Hatları Üzerindeki Etkilerinin Araştırılması, 2019 - 2022

AKPINAR E., BAYRAMOĞLU A., DOĞAN H., ÖZCAN H., HACİMÜFTÜOĞLU A., HALICI Z., ÇADIRCI E., ALBAYRAK A., KAYA Z., ÇANKAYA E., et al., Project Supported by Higher Education Institutions, Covid19 ve Güncel Tedavi Yaklaşımları Sempozyumu, 2021 - 2021

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HACİMÜFTÜOĞLU A., ERTUĞRUL M. S., AYDIN İ. Ç., YENİ Y., YEŞİLYURT F., OKKAY U., SARAÇOĞLU N., NALCI K. A.,

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Oluşturulmuş Sıçanlarda Glutamat Serotonin Dopamin Geri Alım Parametrelerinin Farklı Beyin Bölgelerinde Eş Zamanlı ve Saniye Bazlı Ölçümü ve Yeni Tedavi Önerileri, 2018 - 2021

HACİMÜFTÜOĞLU A., SARAÇOĞLU N., ATEŞ O., Project Supported by Higher Education Institutions, Nöron hücrelerinde çeşitli sebepler sonucu görülen nörotoksisitenin ortadan kaldırılması, 2017 - 2021

KOÇAK M. N., ATEŞ O., TEKİN E., CEYLAN O., ATEŞ İ., OKKAY U., HACİMÜFTÜOĞLU A., Project Supported by Higher Education Institutions, Rat retinalarında dopamin reseptörlerine uygulanacak intravitreal dopamin agonist ve antagonistlerin davranış ve basal ganglionlar üzerine etkilerinin araştırılması, 2019 - 2020

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YATKIN N., GÜRBÜZ H., TATLI A., ADIGÜZEL A., HACİMÜFTÜOĞLU A., ÖGE S., SATIL F., AKAN H., KOCAÇALIŞKAN İ., ZELKA M., et al., Project Supported by Higher Education Institutions, II Uluslararası Bilimler Işığında Yaratılış Kongresi, 2018 - 2019

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HACİMÜFTÜOĞLU A., Project Supported by Higher Education Institutions, OMUZ KORUYUCU ORTEZ PATENTİ, 2015 - 2019

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

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HACİMÜFTÜOĞLU A., TAŞPINAR M., OKKAY U., SAĞSÖZ M. E., Project Supported by Higher Education Institutions, DENEYSEL ALZHEIMER HASTALIĞI MODELİNDE OPTOGENETİK VE DAVRANIŞSAL FARKLILIKLARIN GLUTAMAT TRANSPORTER AKTİVATÖRLERİYLE DÜZELTİLMESİ, 2015 - 2019

HACİMÜFTÜOĞLU A., TAŞPINAR N., Project Supported by Higher Education Institutions, "GLUTAMAT TAŞIYICI AKTİVİTE DEĞİŞİTRİCİ İLAÇLARIN EPİLEPSİ TEDAVİSİİNDEKİ YERİ", 2015 - 2018

KILIÇ H., ATEŞ O., SARAÇOĞLU N., HACİMÜFTÜOĞLU A., Project Supported by Higher Education Institutions, "FARKLI ETKİN MADDELERİN DOKULAR ÜZERİNE ETKİLERİNİN İN VİVO OLARAK DEĞERLENDİRİLMESİ", 2016 - 2017

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SAĞSÖZ M. E., MALKOÇ İ., HACİMÜFTÜOĞLU A., ORAL E. A., ÇAVUŞOĞLU B., MAVİ A., SÖNMEZ E., EKİNCİ D., TUBITAK Project, Beyin Hastalıklarının Tanı Ve Tedavisinde Yeni Yöntem: In Vivo Mikrosensör Teknolojisi, 2013 - 2016 Küfrevioğlu Ö. İ., Hacımüftüoğlu A., Budak H., Çetin D., Project Supported by Higher Education Institutions, Hepatik ensefalopati hayvan modelinde farklı beyin bölgelerinde glutamat transporter ekspresyon değişiminin in vivo voltametrik ve immünflorasan yöntemlerle gösterilmesi ve glutamat trasporter değiştirici ilaçların bu hastalıktaki muhtemel faydalı etkiler, 2011 - 2014

HACİMÜFTÜOĞLU A., ÇETİN D., Project Supported by Higher Education Institutions, BEYİN KANSER HÜCRELERİNİN HÜCRE KÜLTÜR ORTAMINDA YAŞATILMASI SİÇANLARA İNJEKTE EDİLEREK KANSER OLUŞTURULMASI VE ÇEŞİTLİ İLAÇLARLA İN VİVO VE İN VİTRO OLARAK GLİOMANIN ORTADAN KALDIRILMASI, 2011 - 2013

HACİMÜFTÜOĞLU A., ÇETİN D., BUDAK H., Project Supported by Higher Education Institutions, HEPATİK ENSEFALOPATİ HAYVAN MODELİNDE FARKLI BEYİN BÖLGELERİNDE GLUTAMAT TRANSPORTER EKSPRESYON DEĞİŞİMİNİN İN VİVO VOLTAMETRİK VE İMMÜNFLORASAN YÖNTEMLERLE GÖSTERİLMESİ VE GLUTAMAT TRASPORTER DEĞİŞİTRİCİ İLAÇLARIN BU HASTALIKTAKİ MUHTEMEL FAYDALI ETKİLERİNİN İSPATLANMASI, 2011 - 2013

Hacımüftüoğlu A., TUBITAK Project, "Antikanser ilaçların indüklediği ağrı duyarlılık artışının glutamat düzeyiyle ilişkisi", 2007 - 2011

## **Activities in Scientific Journals**

Nanoera, Committee Member, 2021 - Continues  
Lipids In Health And Disease, Editor, 2020 - Continues

## **Memberships / Tasks in Scientific Organizations**

TÜBAS (Türkiye Beyin Araştırmaları ve Sinir Bilimleri Derneği), Board Member, 2014 - Continues, Turkey

## **Scientific Refereeing**

NEUROENDOCRINOLOGY, SCI Journal, April 2023

## **Scientific Consultations**

DEİK, Scientific Consultancy, Ataturk University, Tıp Fakültesi, Dahili Tıp Bilimleri, Turkey, 2019 - 2020

## **Tasks In Event Organizations**

Kadioğlu Y., Nadaroğlu H., Barış Ö., Bayrakçeken Yurtcan A., Ertuğrul M., Gür E., Hacımüftüoğlu A., Karakan M., World Congress on Applied Nanotechnology, Scientific Congress, Erzurum, Turkey, Kasım 2021  
Sağsöz M. E., Okkay U., Akpinar E., Akdemir F., Ferah Okkay I., Danışman B., HACİMÜFTÜOĞLU A., Workshop on in silico Simulation Techniques in Medical Applications, Workshop Organization, Turkey, Kasım 2021  
Hacımüftüoğlu A., 26. Ulusal ve 1. Uluslararası Farmakoloji Kongresi (Bilim Kurulu Üyesi), Scientific Congress, İstanbul, Turkey, Kasım 2021  
Hacımüftüoğlu A., 4th International Congress of Turkish Neuroendocrinology Society, Scientific Congress, İstanbul, Turkey, Kasım 2020  
Hacımüftüoğlu A., 18. Ulusal Sinir Bilim Kongresi, Scientific Congress, Ankara, Turkey, Kasım 2020  
Hacımüftüoğlu A., International Biotechnology Congress (Kongre Başkanı) , Scientific Congress, İstanbul, Turkey, Mart 2020  
Hacımüftüoğlu A., International Biotechnology Congress (Düzenleme Kurulu Başkanı), Social Activities, İstanbul, Turkey, Mart 2020  
Hacımüftüoğlu A., 17. Ulusal Sinir Bilim Kongresi (Düzenleme Kurulu Üyesi) , Scientific Congress, Trabzon, Turkey, Nisan 2019  
Hacımüftüoğlu A., Uluslararası İVEK Biyoteknoloji Kongresi (Bilim Kurulu Üyesi) , Scientific Congress, İstanbul, Turkey, Kasım 2018  
Hacımüftüoğlu A., Uluslararası İVEK Biyoteknoloji Kongresi (Kongre Sekreteri) , Scientific Congress, İstanbul, Turkey, Kasım 2018  
Hacımüftüoğlu A., 16. Sinir Bilim Kongresi (Bilim Kurulu Üyesi), Scientific Congress, İstanbul, Turkey, Mayıs 2018  
Hacımüftüoğlu A., 15. Ulusal Sinir Bilim Kongresi (Düzenleme Kurulu Üyesi), Scientific Congress, Sakarya, Turkey, Mayıs 2017  
Hacımüftüoğlu A., 13. Sinir Bilim Kongresi (Düzenleme Kurulu Üyesi), Scientific Congress, Konya, Turkey, Mayıs 2015  
Hacımüftüoğlu A., 11. Ulusal Sinir Bilim Kongresi (Bilim Kurulu Üyesi), Scientific Congress, İzmir, Turkey, Mayıs 2013

## **Metrics**

Publication: 485

Citation (WoS): 2377

Citation (Scopus): 2308

H-Index (WoS): 26

H-Index (Scopus): 25

## Congress and Symposium Activities

World Congress on Applied Nanotechnology, Session Moderator, Erzurum, Turkey, 2021

19. Ulusal Sinirbilim Kongresi, Session Moderator, İstanbul, Turkey, 2021

Tıbbi Uygulamalarda in silico Simülasyon Teknikleri Çalıştayı, Session Moderator, Erzurum, Turkey, 2021

Uluslararası Biyoteknoloji Kongresi, Invited Speaker, İstanbul, Turkey, 2021

International Biotechnology Congress, Session Moderator, İstanbul, Turkey, 2020

International Biotechnology Congress, Session Moderator, İstanbul, Turkey, 2020

## Scholarships

2219, TUBITAK, 2005 - 2006

## Awards

Hacımüftüoğlu A., 6. Dede Korkut Bilim, Sanat ve Spor Ödülleri, Bayburt Üniversitesi, October 2023

Hacımüftüoğlu A., Akademik Performans Ödülü, Atatürk Üniversitesi, December 2021

Hacımüftüoğlu A., Akademik Performans Çarpan Katkısı Ödülü, Atatürk Üniversitesi, December 2021

Hacımüftüoğlu A., Topluma Katkı Ödülü, Atatürk Üniversitesi, December 2021

Çiçek B., Gül M., Okkay U., Yıldırım S., Ferah Okkay I., Aydın İ. Ç., Hacımüftüoğlu A., Winners ECNP Poster Awards 2020, Ecnp, November 2020

Bayram C., Ferah Okkay I., Okkay U., Hacımüftüoğlu A., Therapeutic potential of bromelain in 6-hydroxydopamine rat model of Parkinson's disease, European College Of Neuropsychopharmacology Congress, September 2020

Hacımüftüoğlu A., 2020 Özel Ödül-Başarı Ödülü Kategorisi, Atatürk Üniversitesi, June 2020

Hacımüftüoğlu A., 2020-1 Bilimsel Teşvik Ödülü, Atatürk Üniversitesi , June 2020

Hacımüftüoğlu A., 2020 Özel Ödül- Uluslararası Patent/Faydalı Model Kategorisi, Atatürk Üniversitesi , May 2020

Hacımüftüoğlu A., 14 Mart Tıp Ödülü, Atatürk Üniversitesi , March 2020

Hacımüftüoğlu A., Biyoyumlu Mikroelektrot, Türk Patent Enstitüsü , September 2019

Hacımüftüoğlu A., OMPİ En İyi Akademisyen Ödülü, Birleşmiş Milletler Dünya Fikri Mülkiyet Örgütü, September 2019

Hacımüftüoğlu A., Patent Dalında Altın Madalya, Isif, September 2019

Hacımüftüoğlu A., Futbol Turnuvası Şampiyonluğu, Atatürk Üniversitesi , May 2019

Hacımüftüoğlu A., IASR Ödülü, Iasr, June 2017

Hacımüftüoğlu A., 2014 En İyi Doktora Tezi Ödülü, Atatürk Üniversitesi, May 2014

Hacımüftüoğlu A., 2013 Patent Dalında Birincilik Ödülü, Atatürk Üniversitesi, May 2013

Hacımüftüoğlu A., 2012 Patent Dalında Birincilik Ödülü, Atatürk Üniversitesi, May 2012

Hacımüftüoğlu A., 2011 Patent Dalında Birincilik Ödülü, Atatürk Üniversitesi, May 2011

Hacımüftüoğlu A., 2011 Etkin Makale Dalında Birincilik Ödülü, Atatürk Üniversitesi, May 2011

## Coaching Duties

Individual Licensed Athlete, Tıp Fakültesi Futbol Takımı, 2013 - Continues

## **Representation and Promotion Activities**

Institutional Representation, Türkiye Sinir Bilimleri Ve Beyin Araştırmaları Derneği, Turkey, Erzurum, 2014 - 2022

Institutional Representation, Federation of European Neuroscience, Belgium, Brussels, 2020 - 2020

Institutional Representation, FENS, Belgium, Brussels, 2020 - 2020

## **Non Academic Experience**

SAĞLIK BAKANLIĞI

TÜBİTAK

Avrupa Sinir Bilim Federasyonu

Ministry, Sağlık Bakanlığı, Tıpta Uzmanlık Kurulu (TUKMOS) Üyesi

Ohio State Uni