

## Res. Asst. CANSU KOÇ

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAL-1786-2020

ScopusID: 57205607904

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### Education Information

Doctorate, Bursa Uludağ University, TIP FAKÜLTESİ, DAHİLİ TIP BİLİMLERİ, Turkey 2019 - Continues

Postgraduate, Bursa Uludağ University, TIP FAKÜLTESİ, DAHİLİ TIP BİLİMLERİ, Turkey 2014 - 2019

Postgraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, BİYOLOJİ, Turkey 2011 - 2014

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, BİYOLOJİ, Turkey 2006 - 2011

### Foreign Languages

English, C1 Advanced

### Dissertations

Postgraduate, Maternal CDP-kolin tedavisinin yenidoğan sıçan akciğer dokusu maturasyonu üzerine olası etkilerinin araştırılması, Bursa Uludağ University, TIP FAKÜLTESİ, DAHİLİ TIP BİLİMLERİ, 2019

Postgraduate, Arpanın cas geni homologunun klonlanması ve külleme hastalığına karşı dirençlilikte ekspresyon seviyesinin incelenmesi, Bursa Uludağ University, 2014

### Research Areas

Medicine, Health Sciences, Pharmacology and Clinical Pharmacology

### Academic Titles / Tasks

Research Assistant, Bursa Uludağ University, TIP FAKÜLTESİ, DAHİLİ TIP BİLİMLERİ, 2020 - Continues

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

1. Comparative neuroprotective effects of royal jelly and its unique compound 10-hydroxy-2-decenoic

**acid on ischemia-induced inflammatory, apoptotic, epigenetic and genotoxic changes in a rat model of ischemic stroke**

KOÇ C., Aydemir C. I., SALMAN B., ÇAKIR A., Akbulut N. H., Karabarut P. L., Topal G., Cinar A. Y., Taner G., EYİĞÖR Ö., et al.

Nutritional Neuroscience, 2024 (SCI-Expanded)

- II. **Short-term Uridine Treatment Alleviates Endoplasmic Reticulum Stress *via* Regulating Inflammation and Oxidative Stress in Lithium-Pilocarpine Model of Status Epilepticus**  
Aydin B., KOÇ C., CANSEV M., ALKAN T.  
CURRENT MOLECULAR PHARMACOLOGY, 2024 (SCI-Expanded)
- III. **Mediation of Epigenetic Mechanisms in the Regenerative Effect of Uridine in a Rat Model of Sciatic Nerve Injury**  
OZMARASALI A. I., KOÇ C., UZABACI H., CANSEV M., KAFA İ. M., BEKAR A.  
Turkish Neurosurgery, vol.34, no.6, pp.1122-1132, 2024 (SCI-Expanded)
- IV. **Preventive effects of antenatal CDP-choline in a rat model of neonatal hyperoxia-induced lung injury**  
Koc C., Cakir A., Salman B., Ocalan B., Alkan T., Kafa İ. M., Cetinkaya M., Cansev M.  
CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, vol.101, no.2, pp.65-73, 2023 (SCI-Expanded)
- V. **Effects of Short-Term Uridine Treatment on Blood-Brain Barrier Integrity and Brain Edema in Lithium-Pilocarpine-Induced Status Epilepticus**  
Aydin B., ESMERCE B., ÇAKIR A., TUNÇAK S., KOÇ C., CANSEV M., ALKAN T.  
ACTA PHYSIOLOGICA, vol.237, pp.35, 2023 (SCI-Expanded)
- VI. **Melatonin Treatment Affects Leptin and Nefatin-1 Levels but not Orexin-A Levels in REM Sleep Deprived Rats**  
ÇAKIR A., Sehzade S., KOÇ C., KAHVECİ N.  
Kafkas Universitesi Veteriner Fakultesi Dergisi, vol.23, no.5, pp.537-544, 2023 (SCI-Expanded)
- VII. **Effects of uridine administration on hippocampal matrix metalloproteinases and their endogenous inhibitors in REM sleep-deprived rats**  
Çakır A., Ocalan Esmerce B., Aydin B., Koç C., Cansev M., Süyen G., Kahveci N.  
Brain Research, vol.1793, 2022 (SCI-Expanded)
- VIII. **Effects of citicoline administration on synaptic proteins in rapid movement rats**  
ÇAKIR A., ÖCALAN B., KOÇ C., SÜYEN G., CANSEV M., KAHVECİ N.  
IRANIAN JOURNAL OF BASIC MEDICAL SCIENCES, vol.25, no.5, pp.562-568, 2022 (SCI-Expanded)
- IX. **Uridine Treatment Improves Nerve Regeneration and Functional Recovery in a Rat Model of Sciatic Nerve Injury**  
Karimi Khezri M., Turkkan A., Koc C., Salman B., Levent P., Cakir A., Kafa İ. M., Cansev M., Bekar A.  
TURKISH NEUROSURGERY, vol.32, no.6, pp.935-943, 2022 (SCI-Expanded)
- X. **EVALUATION OF SERUM CHOLINE ALONG WITH, SOME BIOCHEMICAL AND CLINICAL PARAMETERS IN CATTLE SUFFERING FROM WITH BOTULISM**  
BATMAZ H., MECİTOĞLU Z., Koç C., KAYA F. N., TOPAL O., CANSEV M.  
JOURNAL OF ANIMAL AND PLANT SCIENCES-JAPS, vol.31, no.1, pp.70-76, 2021 (SCI-Expanded)
- XI. **Anti-Apoptotic and Anti-Oxidant Effects of Systemic Uridine Treatment in an Experimental Model of Sciatic Nerve Injury**  
Khezri M. K., Turkkan A., KOÇ C., SALMAN B., Levent P., ÇAKIR A., KAFA İ. M., CANSEV M., BEKAR A.  
TURKISH NEUROSURGERY, vol.31, no.3, pp.373-378, 2021 (SCI-Expanded)
- XII. **Antioxidative effects of uridine in a neonatal rat model of hyperoxic brain injury**  
Al N., Çakir A., Koç C., Cansev M., Alkan T.  
Turkish journal of medical sciences, vol.50, pp.2059-2066, 2020 (SCI-Expanded)
- XIII. **Effects of CDP-choline administration on learning and memory in REM sleep-deprived rats**  
ÇAKIR A., ÖCALAN B., Koc C., SÜYEN G., CANSEV M., KAHVECİ N.  
PHYSIOLOGY & BEHAVIOR, vol.213, 2020 (SCI-Expanded)
- XIV. **The Effect of CDP-Choline on Hippocampal tCAMKII, pCaMKII and pCREB Levels in REM-Sleep Deprived Rats**

- ÇAKIR A., ÖCALAN B., Koc C., Suyen G., CANSEV M., KAHVECİ N.  
ACTA PHYSIOLOGICA, vol.227, pp.37, 2019 (SCI-Expanded)
- XV. **Uridine treatment prevents REM sleep deprivation-induced learning and memory impairment**  
ÖCALAN B., ÇAKIR A., Koc C., SÜYEN G., KAHVECİ N.  
NEUROSCIENCE RESEARCH, vol.148, pp.42-48, 2019 (SCI-Expanded)
- XVI. **Proteomics Analysis of CA1 Region of the Hippocampus in Pre-, Progression and Pathological Stages in a Mouse Model of the Alzheimer's Disease**  
Gurel B., CANSEV M., Koc C., ÖCALAN B., ÇAKIR A., Aydin S., KAHVECİ N., ULUS İ. H., Sahin B., Basar M. K., et al.  
CURRENT ALZHEIMER RESEARCH, vol.16, no.7, pp.613-621, 2019 (SCI-Expanded)
- XVII. **Early Stage Alterations in CA1 Extracellular Region Proteins Indicate Dysregulation of IL6 and Iron Homeostasis in the 5XFAD Alzheimer's Disease Mouse Model**  
Gurel B., CANSEV M., Sevinc C., Kelestemur S., ÖCALAN B., ÇAKIR A., Aydin S., KAHVECİ N., OZANSOY M., Taskapilioglu O., et al.  
JOURNAL OF ALZHEIMERS DISEASE, vol.61, no.4, pp.1399-1409, 2018 (SCI-Expanded)
- XVIII. **Uridine treatment protects against neonatal brain damage and long-term cognitive deficits caused by hyperoxia**  
GÖREN B., ÇAKIR A., Sevinc C., Kocoglu S., ÖCALAN B., OY C., Minbay Z., KAHVECİ N., ALKAN T., CANSEV M.  
BRAIN RESEARCH, pp.57-68, 2017 (SCI-Expanded)
- XIX. **Synaptic Membrane Synthesis in Rats Depends on Dietary Sufficiency of Vitamin C, Vitamin E, and Selenium: Relevance for Alzheimer's Disease**  
CANSEV M., Turkyilmaz M., Sijben J. W. C., Sevinc C., Broersen L. M., van Wijk N.  
JOURNAL OF ALZHEIMERS DISEASE, vol.59, no.1, pp.301-311, 2017 (SCI-Expanded)
- XX. **Regenerative effects of peptide nanofibers in an experimental model of Parkinson's disease**  
SEVER BAHÇEKAPILI M., Turkyilmaz M., Sevinc C., ÇAKIR A., ÖCALAN B., CANSEV M., GÜLER M. Ö., TEKİNAY A. B.  
ACTA BIOMATERIALIA, vol.46, pp.79-90, 2016 (SCI-Expanded)
- XXI. **Evidence for the existence of pyrimidinergic transmission in rat brain**  
Cansev M., Orhan F., Yaylagul E. O., Isik E., Turkyilmaz M., Aydin S., Gumus A., Sevinc C., Coskun N., Ulus İ. H., et al.  
NEUROPHARMACOLOGY, vol.91, pp.77-86, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Deneysel Şizofreni Modelinde Bilişsel Fonksiyonlar ve Hipokampal Sinaptofizin Düzeylerinin İncelenmesi**  
Ermiş E., Koç C., Mergen H. Ş., Makinecioğlu İ., Vural A. P., Cansev M., Göktalay G., Eray Çamlı Ş.  
Uludağ Üniversitesi Tıp Fakültesi Dergisi, vol.49, no.3, pp.367-373, 2023 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Melatoninin REM uyku yoksunluğu sonucu oluşan ER stres üzerine etkisi**  
ÇAKIR A., Şehzade S., KOÇ C., SÜYEN G., BİCAN DEMİR A., KAHVECİ N.  
21. Ulusal Sinirbilim Kongresi, Bolu, Turkey, 08 June 2023
- II. **Arı Sütü Ve İçeriğindeki 10-HDA'nın İskemik İnme Modeli Oluşturulan Sıçanlarda Nöroprotektif Etkinliği**  
KOÇ C., Salman B., ÇAKIR A., Aydemir Ç. İ., HASANOĞLU AKBULUT N., Levent Karabarut P., TANER G., YİĞİT ÇINAR A., EYİĞÖR Ö., CANSEV M.  
21. Ulusal Sinirbilim Kongresi, Bolu, Turkey, 8 - 11 June 2023, pp.102
- III. **Melatonin has a therapeutic effect on the Alzheimer's-like pathology induced by REM sleep deprivation**  
ÇAKIR A., Şehzade S., KOÇ C., SÜYEN G., BİCAN DEMİR A., KAHVECİ N.

AD/PD 2023 International Conference on Alzheimer's and Parkinson's Diseases and related neurological disorders, Gothenburg, Sweden, 28 March 2023

- IV. **THE ROLE OF REM SLEEP DEPRIVATION ON LEARNING MEMORY AND THE POSSIBLE THERAPEUTIC EFFECT OF MELATONIN**  
ÇAKIR A., Şehzade S., KOÇ C., SÜYEN G., BİCAN DEMİR A., KAHVECİ N.  
10. INTERNATIONAL EUROASIA Congress on Scientific Researches and Recent Trends, Baku, Azerbaijan, 16 February 2023, pp.275-278
- V. **Li-Pilokarpin ile İndüklenen Status Epilepticus Modelinde Kısa Süreli Üridin Tedavisinin Kan-Beyin Bariyeri ve Beyin Ödemi Üzerine Etkisi**  
AYDİN B., ESERCE B., ÇAKIR A., TUNÇAK S., KOÇ C., CANSEV M., ALKAN T.  
Türk Fizyolojik Bilimler Derneği 47. Ulusal Fizyoloji Kongresi, Antalya, Turkey, 01 November 2022, pp.37
- VI. **EFFECTS OF ROYAL JELLY AND ITS INGREDIENT 10-HDA ON NEUROGENESIS IN RAT MODEL OF EXPERIMENTAL STROKE**  
HASANOĞLU AKBULUT N., TOPAL G., KOÇ C., TANER G., ÇINAR A., SALMAN B., ERMİŞ E., EYİĞÖR Ö., CANSEV M.  
NICHE2022, 15th National and 1st International Congress of Histology and Embryology, Ankara, Turkey, 26 May 2022, vol.1, pp.135
- VII. **NEUROPROTECTIVE EFFECTS OF ROYAL JELLY AND ITS INGREDIENT 10-HDA AGAINST CEREBRAL ISCHEMIA-REPERFUSION INJURY IN RAT**  
TOPAL G., HASANOĞLU AKBULUT N., KOÇ C., TANER G., ÇINAR A., SALMAN B., ERMİŞ E., EYİĞÖR Ö., CANSEV M.  
NICHE2022, 15th National and 1st International Congress of Histology and Embryology, Ankara, Turkey, 26 May 2022, vol.1, pp.137
- VIII. **İnme modelinde arı sütü ve içeriğinde bulunan 10-HDA maddesinin astrosit reaksiyonuna etkileri**  
Hasanoğlu Akbulut N., Koç C., Topal G., Cansev M., Eyigör Ö.  
25. ULUSAL ELEKTRON MİKROSKOPİ KONGRESİ, İstanbul, Turkey, 22 - 24 September 2021, pp.6
- IX. **PREVENTIVE EFFECTS OF MATERNAL CDP-CHOLINE, ADMINISTERED EITHER ALONE OR IN COMBINATION WITH A STEROID, ON LUNG INJURY IN A NEONATAL RAT MODEL OF HYPEROXIA**  
Koc C., CANSEV M., ALKAN T., KAFA İ. M., Cetinkaya M.  
3rd Congress of Joint European Neonatal Societies (jENS), Masstricht, Netherlands, 17 - 21 September 2019, vol.86, pp.41

## Supported Projects

Çakır A., Kahveci N., Öcalan B., Süyen G., Koç C., Cansev M., Project Supported by Higher Education Institutions, REM Uyku Yoksunluğu Oluşturulan Sıçanlarda Üridin Tedavisinin Matriks Metalloproteinaz ve Sinaptik Proteinler Üzerine Etkisi, 2020 - 2022

## Patent

Cansev M., Alkan T., Koç C., Kafa İ. M., Çetinkaya M., Salman B., Çakır A., Öcalan B., BRONKOPULMONER DİSPLAZİNİN ÖNLENMESİ ve TEDAVİSİNDE CDP-KOLİN KULLANIMI, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2020/12897 , Standard Registration, 2024

Cansev M., Koç C., Çetinkaya M., Alkan T., Kafa İ. M., Salman B., Çakır A., Öcalan B., USE OF CDP-CHOLINE IN THE PREVENTION AND TREATMENT OF BRONCHOPULMONARY DYSPLASIA, Patent, CHAPTER A Human Needs, The Invention Recourse Number: PCT/TR2021/050814 , Standard Registration, 2021

Cansev M., Koç C., Çetinkaya M., Alkan T., Kafa İ. M., Salman B., Çakır A., Öcalan B., Yenidoğanlarda Hiperoksinin Neden Olduğu Akciğer Hasarını Düzeltten Bileşik, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2020/10528 , Standard Registration, 2020

Cansev M., Alkan T., Koç C., Çakır A., Al N., OKSİDATİF STRESİN AZALTILMASI İÇİN BİR BİLEŞİK, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2020/10528 , Standard Registration, 2020

## Metrics

Publication: 33

Citation (WoS): 143

Citation (Scopus): 149

H-Index (WoS): 8

H-Index (Scopus): 8

## Scholarships

2211-A Genel Yurt İçi Doktora Burs Programı, TUBITAK, 2019 - Continues

Beyin Ekstraselüler Matrisinin Nörodejenerasyondaki Rolünün Alzheimer'da Araştırılması, TUBITAK, 2016 - 2016

DeneySEL Parkinson Modelinde Peptit Nanofiberlerin Tedavi Edici Etkinliğinin Araştırılması, TUBITAK, 2014 - 2016

Srp72 Ve Cas Genlerinin Arpa Homologlarının Arpada Külleme Hastalığına Karşı Dirençlilikte Fonksiyonlarının

Belirlenmesi, TUBITAK, 2011 - 2014

## Awards

Öcalan B., Çakır A., Koç C., Süyen G., Kahveci N., XI. Dr. Aysun-Ahmet Küçükkel Tıp Ödülleri, Güven Sağlık Grubu, March 2019