

## Assoc. Prof. Nurcan ORHAN

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Istanbul University, Health Sciences Institute, Sinirbilim Anabilim Dalı, Turkey 2007 - 2013

Postgraduate, Istanbul University, Health Sciences Institute, Sinirbilim Anabilim Dalı, Turkey 2005 - 2007

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Biyoloji Bölümü, Turkey 2001 - 2004

Undergraduate, Istanbul University, Faculty Of Science, Department of Biology, Turkey 1997 - 2001

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, MPM-19 Proje Yönetimi Eğitimi, Mentor Project Management Institute, İstanbul, 2010

Education Management and Planning, Stratejik Yönetimin Temel Kavramları Programı, Mentor Management Institute, İstanbul, 2010

Education Management and Planning, "Real-Time PCR" Çalıştay Uygulamalı Eğitim Kursu, İ.Ü. Fen Fakültesi Moleküler Biyoloji ve Genetik Bölümü ve BİYOGEM, 2008

Education Management and Planning, MagNa Pure Compact Software ve Dokudan RNA İzolasyonu Eğitimi, Elips Sağlık Ürünleri İthalat ve İhracat Ltd. Şti, 2008

Education Management and Planning, Mikroskopi Teknikleri ve Uygulamaları Kursu, İstanbul Üniversitesi Fen Fakültesi Biyoloji Bölümü ve Leica-Gantenbein Ticaret, 2008

Education Management and Planning, Proteomics Protein Structure and Function Workshop "With International Participation", ..., 2006

Education Management and Planning, Hybrid Course in Statistical Genetic Analysis of Complex Phenotypes, European School of Genetic Medicine-Remote Training Center of İstanbul, 2006

Education Management and Planning, Hücresel Düzeyden Sistem Düzeyine Kadar Temel ve Klinik Elektrofizyoloji Kursu, IV. Ulusal Sinirbilimleri Kongresi, Mersin, 2005

Education Management and Planning, VI. Dönem-EEG Okulu, Bilim Ütopya Kooperatifi, 2005

## Dissertations

Doctorate, TRAVMATİK BEYİN HASARI OLUŞTURULAN SIÇANLARDA BETA-HİDROKSİBÜTİRATIN BEYİN DAMAR GEÇİRGENLİĞİNE ETKİLERİ, Istanbul University, Sağlık Bilimleri Enstitüsü-Detae, Sinirbilim Anabilim Dalı, 2013

Postgraduate, OBSESİF KOMPULSİF BOZUKLUĞU OLAN KİŞİLERDE EŞLEŞME BOZUCU PROTEİN-2 VE MANGAN SÜPEROKSİT DİSMUTAZ POLİMORFİZMLERİNİN OKSİDATİF STRES İLE İLİŞKİSİ, Istanbul University, Health Sciences Institute, Detae-Sinirbilim Anabilim Dalı, 2007

Postgraduate, SIÇAN (*Rattus norvegicus*)'LARDA AKUT İSKEMİ REPERFÜZYON MODELİ İLE OLUŞTURULAN BÖBREK YETMEZLİĞİNDE PROSTAGLANDİN E(1)'İN ROLÜ, Istanbul University, Institute of Graduate Studies In Sciences, Biyoloji Bölümü, 2004

## Research Areas

Natural Sciences

## Academic Titles / Tasks

Research Assistant PhD, Istanbul University, Deneysel Tıp Araştırma Enstitüsü, Sinirbilim Anabilim Dalı, 2005 - Continues

## Academic and Administrative Experience

Assistant Director of the Institute, Istanbul University, Health Sciences Institute, 2022 - Continues

## Advising Theses

Orhan N., Bipolar Bozukluğu Olanlar ve Birinci Derece Yakınlarında Aksonal Dejenerasyonla İlgili Belirteçler, Bilişsel İşlevler ve Ak Madde İlişkisi, Doctorate, B.Kök(Student), 2024

Orhan N., Travmatik Beyin Hasarı Tanılı Hastalarda Bilişsel Bozukluklar, Postgraduate, S.ZEYNALLI(Student), 2023

Orhan N., Bipolar Bozukluk Tanılı Hastalar ve Birinci Derece Yakınlarında Kallikrein-8'in Rolü ve Oksidatif Stres İlişkisi, Postgraduate, T.HACIOSMANOĞLU(Student), 2022

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

- I. **Blood-brain barrier targeted delivery of lacosamide-conjugated gold nanoparticles: Improving outcomes in absence seizures**  
Temizyürek A., Uğur Yılmaz C., Emik S., Akcan U., Atış M., Orhan N., Arican N., Ahishali B., Tüzün E., Küçük M., et al. EPILEPSY RESEARCH, vol.184, pp.106939, 2022 (SCI-Expanded)
- II. **Targeted delivery of lacosamide-conjugated gold nanoparticles into the brain in temporal lobe epilepsy in rats**  
Yılmaz C. U., EMİK S., Orhan N., Temizyurek A., Atis M., Akcan U., Khodadust R., Arican N., Kucuk M., Gurses C., et al. LIFE SCIENCES, vol.257, 2020 (SCI-Expanded)
- III. **The Effects of the Methyl-Beta-Cyclodextrin and Myriocin on Blood-Brain Barrier Integrity in Septic Rats**  
Akcan U., Atis M., Sarikaya D., Yılmaz C. U., ORHAN N., KOTİL T., ARICAN N., Ahishah B., Kaya M. ACTA PHYSIOLOGICA, vol.227, pp.84, 2019 (SCI-Expanded)
- IV. **Effects of methyl-beta-cyclodextrin on blood-brain barrier permeability in angiotensin II-induced hypertensive rats.**

ATİŞ M., AKCAN U., Uğur Y., Orhan N., DÜZGÜN P., Deniz C., ARICAN N., KARAHÜSEYİNOĞLU S., Nur Ş., AHİSHALİ B., et al.

Brain research, vol.1715, pp.148-155, 2019 (SCI-Expanded)

- V. **The Effects of Lipopolysaccharide on the Disrupted Blood-Brain Barrier in a Rat Model of Preeclampsia**  
Kucuk M., Yilmaz C. U., Orhan N., Ahishali B., Arican N., Elmas I., Gurses C., Kaya M.  
JOURNAL OF STROKE & CEREBROVASCULAR DISEASES, vol.27, no.12, pp.3411-3418, 2018 (SCI-Expanded)
- VI. **Effects of Methyl-Beta-Cyclodextrin on Blood-Brain Barrier Permeability in Acute Hypertension Induced by Angiotensin-II**  
Atis M., Akcan U., Yilmaz C. U., Orhan N., Duzgun P., Ceylan U. D., Arican N., Karahuseyinoglu S., Sahin G. N., Ahishali B., et al.  
ACTA PHYSIOLOGICA, vol.221, pp.68-69, 2017 (SCI-Expanded)
- VII. **Hyperbaric oxygen therapy for five days increases blood-brain barrier permeability**  
Tatar S., Orhan N., Yilmaz C. U., Arican N., Ahishali B., Kucuk M., Elmas I., Kaya M., Toklu A. S.  
UNDERSEA AND HYPERBARIC MEDICINE, vol.44, no.4, pp.345-355, 2017 (SCI-Expanded)
- VIII. **Changes in electroencephalographic characteristics and blood-brain barrier permeability in WAG/Rij rats with cortical dysplasia.**  
SAHİN D., Yilmaz C., Orhan N., Arican N., KAYA M., Gürses C., ATEŞ N., Ahishali B.  
Epilepsy & behavior : E&B, vol.67, pp.70-76, 2017 (SCI-Expanded)
- IX. **Neuroprotective effects of intravenous immunoglobulin are mediated through inhibition of complement activation and apoptosis in a rat model of sepsis**  
ESEN F., ORHUN G., ERGİN ÖZCAN P., ŞENTÜRK E., Kucukerden M., GIRIS M., AKCAN U., Yilmaz C., ORHAN N., ARICAN N., et al.  
INTENSIVE CARE MEDICINE, vol.5, no.1, pp.1, 2016 (SCI-Expanded)
- X. **36th International Symposium on Intensive Care and Emergency Medicine: Brussels, Belgium. 15-18 March 2016.**  
Tüzün E., Şentürk E., Esen F., Orhun G., Kaya M., Küçükerden M., Giris M., Arican N., Orhan N., Ergin Özcan P., et al.  
Critical Care, vol.20, pp.347, 2016 (SCI-Expanded)
- XI. **The Therapeutic Effects of Catalase-PEG on the Disrupted Blood-brain Barrier Integrity by Hyperosmolar Mannitol Infusion in Rats**  
Ayturk N., Orhan N., Yilmaz C. U., Arican N., Kaya M., Elmas I., Kucuk M., Ahishali B.  
ACTA PHYSIOLOGICA, vol.218, pp.17, 2016 (SCI-Expanded)
- XII. **Prostaglandin-E1 has a protective effect on renal ischemia/reperfusion-induced oxidative stress and inflammation mediated gastric damage in rats.**  
Gezginci-Oktayoglu S., Orhan N., Bolkent Ş.  
International immunopharmacology, vol.36, pp.142-150, 2016 (SCI-Expanded)
- XIII. **Effects of beta-hydroxybutyrate on brain vascular permeability in rats with traumatic brain injury**  
Orhan N., Yilmaz C. U., Ekizoglu O., Ahishali B., Kucuk M., Arican N., Elmas I., Gurses C., Kaya M.  
BRAIN RESEARCH, vol.1631, pp.113-126, 2016 (SCI-Expanded)
- XIV. **Localization and mobility of glucose-coated gold nanoparticles within the brain**  
Gromnicova R., Yilmaz C. U., Orhan N., Kaya M., Davies H., Williams P., Romero I. A., Sharrack B., Male D.  
NANOMEDICINE, vol.11, no.6, pp.617-625, 2016 (SCI-Expanded)
- XV. **The Blood-Brain Barrier Integrity in WAG/Rij Rats with Rotational Movements**  
ŞAHİN D., Yilmaz C. U., Orhan N., Gurses C., Ahishali B., Arican N., Kucuk M., Elmas I., ATEŞ N., Kaya M.  
ACTA PHYSIOLOGICA, vol.215, pp.20, 2015 (SCI-Expanded)
- XVI. **The Effects of Lipopolysaccharide on the Altered Blood-Brain Barrier Integrity in Experimental Preeclampsia in Rats**  
Yilmaz C. U., Orhan N., Kucuk M., Ahishali B., Arican N., Elmas I., Gurses C., Cevik A., Kaya M.  
ACTA PHYSIOLOGICA, vol.215, pp.40-41, 2015 (SCI-Expanded)
- XVII. **Effects of intravenous immunoglobulin therapy on behavior deficits and functions in sepsis model**  
Ozcan P. E., Senturk E., Orhun G., Gumru S., Arican N., Orhan N., Yilmaz C. U., Kaya M., ARICIOĞLU F., Esen F.

- ANNALS OF INTENSIVE CARE, vol.5, 2015 (SCI-Expanded)
- XVIII. **Evaluation of Paraoxonase 1 Polymorphisms in Patients with Bipolar Disorder**  
Kucukali C. İ., Ulusoy C., OZKAN O., Orhan N., GULEC H., Erdag E., Buker S., Tuzun E.  
IN VIVO, vol.29, no.1, pp.103-108, 2015 (SCI-Expanded)
- XIX. **Effects of intravenous immunoglobulin therapy on behavior deficits and functions in cecal ligation-puncture induced sepsis model in rats: a randomized, controlled, experimental study**  
ERGİN ÖZCAN P., ŞENTÜRK E., ESEN F., ORHUN G., ARICAN N., ORHAN N., UĞUR YILMAZ C., KAYA M.  
ANNALS OF INTENSIVE CARE, vol.5, no.1, pp.62, 2015 (SCI-Expanded)
- XX. **The effects of superoxide dismutase mimetic MnTMPyP on the altered blood-brain barrier integrity in experimental preeclampsia with or without seizures in rats**  
Orhan N., Yilmaz C. U., Ekizoglu O., Ahishali B., Arican N., Kucuk M., Elmas I., Gurses C., Kalayci R., Kaya M.  
BRAIN RESEARCH, vol.1563, pp.91-102, 2014 (SCI-Expanded)
- XXI. **The effects of hyperbaric air and hyperbaric oxygen on blood-brain barrier integrity in rats**  
Cevik N. G., Orhan N., Yilmaz C. U., Arican N., Ahishali B., Kucuk M., Kaya M., Toklu A. S.  
BRAIN RESEARCH, vol.1531, pp.113-121, 2013 (SCI-Expanded)
- XXII. **Vagus nerve stimulation inhibits seizure activity and protects blood-brain barrier integrity in kindled rats with cortical dysplasia**  
Kaya M., Orhan N., Karabacak E., Bahceci M. B., Arican N., Ahishali B., Kemikler G., Uslu A., Cevik A., Yilmaz C. U., et al.  
LIFE SCIENCES, vol.92, pp.289-297, 2013 (SCI-Expanded)
- XXIII. **Topiramate reduces blood-brain barrier disruption and inhibits seizure activity in hyperthermia-induced seizures in rats with cortical dysplasia**  
Gurses C., Orhan N., Ahishali B., Yilmaz C. U., Kemikler G., Elmas I., Cevik A., Kucuk M., Arican N., Kaya M.  
BRAIN RESEARCH, vol.1494, pp.91-100, 2013 (SCI-Expanded)
- XXIV. **Topiramate reduces blood-brain barrier disruption and inhibits seizure activity in hyperthermia-induced seizures in rats with Cortical Dysplasia.**  
GÜRSES R. C., ORHAN N., AHISHALI B., UĞUR YILMAZ C., KEMİKLER G., ELMAS İ., ÇEVİK A., ARICAN N., KAYA M.  
BRAIN RESEARCH, vol.1494, pp.91-100, 2013 (SCI-Expanded)
- XXV. **Intravenous immunoglobulins prevent the breakdown of the blood-brain barrier in experimentally induced sepsis**  
Esen F., Senturk E., Ozcan P. E., Ahishali B., Arican N., Orhan N., Ekizoglu O., Kucuk M., Kaya M.  
CRITICAL CARE MEDICINE, vol.40, no.4, pp.1214-1220, 2012 (SCI-Expanded)
- XXVI. **Genetic variants in nuclear-encoded mitochondrial proteins are associated with oxidative stress in obsessive compulsive disorders**  
Orhan N., Kucukali C. İ., ÇAKIR U., Seker N., Aydin M.  
JOURNAL OF PSYCHIATRIC RESEARCH, vol.46, no.2, pp.212-218, 2012 (SCI-Expanded)
- XXVII. **The effect of pentylentetrazole-induced seizures on blood-brain barrier integrity in a rat model of preeclampsia**  
Kucuk M., Kaya M., Orhan N., Ekizoglu O., Arslan E., Arican N., Gurses C., Elmas I., Kalayci R., Ahishali B.  
TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, vol.36, no.3, pp.311-318, 2012 (SCI-Expanded)
- XXVIII. **The effects of hyperbaric oxygen therapy on blood-brain barrier permeability in septic rats**  
Autan S. M., Kaya M., Orhan N., Arslan A., Arican N., Toklu A. S., Gurses C., Elmas I., Kucuk M., Ahishali B.  
BRAIN RESEARCH, vol.1412, pp.63-72, 2011 (SCI-Expanded)
- XXIX. **Effects of levetiracetam on blood-brain barrier disturbances following hyperthermia-induced seizures in rats with cortical dysplasia**  
Ahishali B., Kaya M., Orhan N., Arican N., Ekizoglu O., Elmas I., Kucuk M., Kemikler G., Kalayci R., Gurses C.  
LIFE SCIENCES, vol.87, pp.609-619, 2010 (SCI-Expanded)
- XXX. **Are GRIK3 (T928G) gene variants in schizophrenia patients different from those in their first-degree relatives?**  
KILIC G., Kucukali C. İ., Orhan N., Ozkok E., Zengin A., Aydin M., Kara I.  
Psychiatry Research, vol.175, pp.43-46, 2010 (SCI-Expanded)
- XXXI. **Blood-brain barrier disturbances following hyperthermia in rats with cortical dysplasia**

- GÜRSES R. C., KAYA M., Kalayci R., ARICAN N., AHISHALI B., Ekizoglu O., ELMAS İ., ORHAN N., KÜÇÜK M., ÜSTEK D., et al.  
EUROPEAN JOURNAL OF NEUROLOGY, vol.16, pp.481, 2009 (SCI-Expanded)
- XXXII. **Levetiracetam decreases the seizure activity and blood-brain barrier permeability in pentylenetetrazole-kindled rats with cortical dysplasia**  
Gurses C., Ekizoglu O., Orhan N., Ustek D., Arican N., Ahishali B., Elmas I., Kucuk M., Bilgic B., Kemikler G., et al.  
BRAIN RESEARCH, vol.1281, pp.71-83, 2009 (SCI-Expanded)
- XXXIII. **Do schizophrenia and bipolar disorders share a common disease susceptibility variant at the MMP3 gene?**  
Kucukali C. İ., Aydin M., Ozkok E., Bilge E., Orhan N., Zengin A., Kara I.  
Progress in Neuro-Psychopharmacology and Biological Psychiatry, vol.33, no.3, pp.557-561, 2009 (SCI-Expanded)
- XXXIV. **Paraoxonase-1 55/192 genotypes in schizophrenic patients and their relatives in Turkish population**  
Kucukali C. İ., Aydin M., Ozkok E., Orhan N., Cakir U., KILIC G., OZBEK Z., Ince N., Kara I.  
Psychiatric Genetics, vol.18, no.6, pp.289-294, 2008 (SCI-Expanded)
- XXXV. **Effect of the methylenetetrahydrofolate reductase gene polymorphisms on homocysteine, folate and vitamin B12 in patients with bipolar disorder and relatives**  
OZBEK Z., Kucukali C. İ., Ozkok E., Orhan N., Aydin M., KILIC G., SAZCI A., Kara I.  
Progress in Neuro-Psychopharmacology and Biological Psychiatry, vol.32, no.5, pp.1331-1337, 2008 (SCI-Expanded)
- XXXVI. **Morphological and functional changes of blood-brain barrier in kindled rats with cortical dysplasia**  
Kaya M., Gurses C., Kalayci R., Ekizoglu O., Ahishali B., Orhan N., Oku B., Arican N., Ustek D., Bilgic B., et al.  
BRAIN RESEARCH, vol.1208, pp.181-191, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Changes in the Expression of c-fos and AQP4 in the Hippocampus and Amygdala Regions of Rats with Kainic Acid-Induced Temporal Lobe Epilepsy and Their Role in the Pathogenesis of Disease**  
Taskiran E., Yilmaz C. U., Orhan N., Kaya M., Arican N., Bahceci M. B., Ahishali B., Gurses C.  
ARCHIVES OF EPILEPSY, vol.28, no.2, pp.59-64, 2022 (ESCI)
- II. **Selective vulnerability for transcellular pathway of blood-brain barrier in acute and chronic phase of the kainate model of temporal lobe epilepsy in rat**  
UĞUR YILMAZ C., TAŞKIRAN E., ORHAN N., GÜRSES R. C., AHISHALI B., ELMAS İ., KÜÇÜK M., ARICAN N., Kaya M.  
International journal of cerebrovascular disease and stroke, vol.01, no.2018, pp.5-10, 2018 (Non Peer-Reviewed Journal)
- III. **Neuroprotective effects of intravenous immunoglobulin are mediated through inhibition of complement activation and apoptosis in a rat model of sepsis.**  
Esen F., Orhun G., Ozcan P., Senturk E., KUCUKERDEN M., GIRIS M., AKCAN U., Yilmaz C., Orhan N., Arican N., et al.  
Intensive care medicine experimental, vol.5, pp.1, 2017 (ESCI)
- IV. **The Comparison of Pressure (PSV) and Volume Support Ventilation (VSV) as a 'Weaning' Mode.**  
Sancar N., Özcan P., Şentürk E., SELEK Ç., ÇAKAR N.  
Turkish journal of anaesthesiology and reanimation, vol.42, pp.170-5, 2014 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Ölüm Zamanı Tahmininde İskelet Kasında mRNA Analizi**  
Şenbaş Z. A., Orhan N., Arican N.  
4. Uluslararası 20. Ulusal Adli Bilimler Kongresi, İzmir, Turkey, 2 - 05 November 2023, pp.222
- II. **Cognitive and behavioral tests for diagnosing possible cognitive disorders after head trauma**  
ZEYNALLI S., ÇALIŞ F., HACIOSMANOĞLU T., MALKOÇ M. A., ULAŞOĞLU YILDIZ Ç., ORHAN N., ARICAN N.

4th International Forensic Sciences Congress, İzmir, Turkey, 2 - 05 November 2023, pp.218-219

- III. **IgG Uygulanan Septik Sıçanlarda İntranöronal Kapiller.**  
KÜÇÜK M., AHISHALI B., ŞENTÜRK E., KAYA M., ORHAN N., GÜRSES R. C.  
9. Ulusal Sinirbilimleri Kongresi, İstanbul, Turkey, pp.23
- IV. **Results of Video-EEG Monitorization in the Rats were Treated Kainic Acid in Acute Term**  
KÜÇÜK M., UĞUR YILMAZ C., Taşkıran E., KAYA M., Bahceci M. B., ARICAN N., ORHAN N., GÜRSES R. C.  
Journal of the Neurological Sciences, Canada, pp.720
- V. **İmmünoglobulin Prevent Breakdown Of The Blood brain barrier in experimental sepsis.**  
ESEN F., ŞENTÜRK E., ERGİN ÖZCAN P., AHISHALI B., ARICAN N., ORHAN N., Ekizoglu O., ÜSTEK D., KÜÇÜK M., KAYA M.  
Xth National Histology & Embryology Congress ( With International Participants), İstanbul, Turkey, pp.116
- VI. **Blood-Brain Barrier Dynamics of Nanotechnological Drug Carriers in Animal Model of Temporal Lobe Epilepsy**  
UĞUR YILMAZ C., ORHAN N., Temizyürek A., AHISHALI B., KÜÇÜK M., ATIŞ M., ARICAN N., GÜRSES R. C., KHODADUST R., AKCAN U., et al.  
Turkish Society of Physiological Sciences 43rd National Physiology Congress, Denizli, Turkey, 7 - 10 September 2018, pp.25
- VII. **Are nanocarriers safe? Effects of nanoparticles on oxidant/antioxidant system and inflammation**  
ORHAN N.  
Ulusal Sinirbilim Kongresi 2018 – Uluslararası Katılımlı, İstanbul, Turkey, 20 - 23 May 2018, vol.12, pp.20
- VIII. **Nanotaşıyıcı bağlı anti epileptik ilacın temporal lob epilepsi hayvan modelinde gözlenen nöbetler ve kan-beyin bariyeri üzerine etkileri**  
UĞUR YILMAZ C., ORHAN N., Temizyürek A., Atış M., Akcan U., Khodadost R., ARICAN N., KÜÇÜK M., GÜRSES R. C., AHISHALI B., et al.  
11.Ulusal Epilepsi Kongresi, Antalya, Turkey, 3 - 06 May 2018, pp.16-17
- IX. **DeneySEL Travma Modelinde Kontrilateral Hemisferde Biyobelirteç Olarak Aquaporin-4**  
ORHAN N., UĞUR YILMAZ C., Malkoç M. A., ELMAS İ., AHISHALI B., Kaya M., ARICAN N.  
15. Adli Bilimler Kongresi, Antalya, Turkey, 12 - 15 April 2018, pp.251
- X. **Blood-brain barrier dynamics of nanotechnological drug carriers in animal model of temporal lobe epilepsy.**  
UĞUR YILMAZ C., ORHAN N., Temizyürek A., Atış M., Akcan U., ARICAN N., KÜÇÜK M., Gurses C., AHISHALI B., EMİK S., et al.  
20th International Symposium on Signal Transduction at the Blood-Brain Barriers, Krakow, Poland, 13 - 15 September 2017, pp.21-22
- XI. **Temporal Lob Epilepsi Hayvan Modelinde İlaç Bağlı Nanopartiküllerin Tedavi Düzeyi ve Kan-Beyin Bariyeri Dinamikleri**  
UĞUR YILMAZ C., Temizyürek A., ORHAN N., Atış M., Akcan U., Khodadost R., ARICAN N., KÜÇÜK M., GÜRSES R. C., AHISHALI B., et al.  
43. Ulusal Fiziyojoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, pp.33
- XII. **DeneySEL Alzheimer Hastalığı Modelinde Hipokampal Alanda İzlenen Ultrastrüktürel Değişimler**  
ORHAN N., Yılmaz C. U., Atış M., Kaya M., ELMAS İ., KÜÇÜK M., Gurses C., AHISHALI B., ARICAN N.  
14. Adli Bilimler Kongresi, İzmir, Turkey, 11 - 14 May 2017, pp.131
- XIII. **Travmatik Beyin Hasarı Modelinde Biyobelirteç Olarak GFAP ve AQP-4**  
ORHAN N., UĞUR YILMAZ C., Ekizoglu O., Kaya M., ELMAS İ., KÜÇÜK M., AHISHALI B., ARICAN N.  
14. Adli Bilimler Kongresi, İzmir, Turkey, 11 - 14 May 2017, pp.363
- XIV. **Sıçan hipokampusuna uygulanan amiloid beta 1-42'ye nörovasküler ünite hücrelerinin yanıtı**  
ORHAN N., UĞUR YILMAZ C., Atış M., ARICAN N., KÜÇÜK M., ELMAS İ., Gurses C., AHISHALI B., KAYA M.  
15. Sinirbilim Kongresi, Sakarya, Turkey, 7 - 10 May 2017, pp.88
- XV. **The therapeutic effects of catalase-PEG on the disrupted blood-brain barrier integrity by hyperosmolar mannitol infusion in rats.**  
Aytürk N., ORHAN N., UĞUR YILMAZ C., Arican N., KAYA M., ELMAS İ.

19th International Signal Transduction at the Blood-Brain Barriers,, Kopenhag, Denmark, 14 - 16 September 2016, pp.1

- XVI. **Sıçanlarda hiperosmolar mannitol infüzyonuyla bozulan kan-beyin bariyeri bütünlüğü üzerine katalaz-polietilenglikolün tedavi edici etkileri.**  
Aytürk N., ORHAN N., Yılmaz C. U., Arıcan N., Kaya M., ELMAS İ., UĞUR YILMAZ C.  
42. Ulusal Fizyoloji Kongresi, Düzce, Turkey, 5 September - 08 October 2016
- XVII. **The effects of lipopolysachharide on the altered blood-brain barrier integrity in experimental preeclampsia in rats**  
KAYA M., UĞUR YILMAZ C., ORHAN N., KÜÇÜK M., ARICAN N., AHISHALI B., ELMAS İ., GÜRSES R. C.  
11th International Conference on Cerebral Vascular Biology, Paris, France, 6 - 09 July 2016
- XVIII. **Brain protective effects of intravenous immunoglobulin through inhibition of complement activation and apoptosis in a rat model of sepsis.**  
ESEN F., ORHUN G., ERGİN ÖZCAN P., ŞENTÜRK E., UĞUR YILMAZ C., ORHAN N., ARICAN N., KAYA M.  
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- XIX. **Preeklampsi Sıçan Modelinde Yıkılan Kan-Beyin Bariyeri üzerine Liposakkaridin Etkileri**  
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- LXXXIII. **Alterations In Blood-Brain Barrier Integrity In Pentylenetetrazole-Kindled Rats With Cortical Dysplasia, Innsbruck Colloquium on Status Epilepticus,**  
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## Supported Projects

- ORHAN N., TUBITAK Project, Temporal Lob Epilepsi Tedavisi İçin Kan-Beyin Bariyeri Taşıyıcısı Barındıran Biyolojik İlaç Tasarımı, 2019 - Continues
- ORHAN N., TUBITAK Project, Histamin Reseptörleri ve RhoA Sinyal Yolaklarının Kan-Beyin Bariyeri Endotel Hücre Geçirgenliği Üzerine Olan Olası Etkileri, 2019 - Continues
- Şenbaş Z. A., Orhan N., Arıcan N., TUBITAK Project, mRNA Analysis in Skeletal Muscle for Postmortem Interval Estimation, 2022 - 2023
- ARICAN N., ORHAN N., ŞENBAŞ Z. A., Project Supported by Higher Education Institutions, Ölüm Zamanı Tahmininde İskelet Kasında mRNA Analizi, 2021 - 2023
- ORHAN N., UĞUR YILMAZ C., ELMAS İ., KÜÇÜK M., KAYA M., ATIŞ M., Project Supported by Higher Education Institutions, Deneysel Alzheimer Hastalığı Modelinde Hipokampal Alanda İzlenen Ultrastrüktürel Değişimler, 2017 - 2022

ORHAN N., TUBITAK Project, Anjiyotensin II İle Oluşturulan Akut Hipertansiyon Sırasında Metil Beta Siklodekstrinin Artmış Kan-Beyin Bariyeri Geçirgenliği Üzerine Etkileri, 2017 - 2018

EMİK S., ELMAS İ., KÜÇÜK M., AHISHALI B., UĞUR YILMAZ C., KAYA M., ARICAN N., ORHAN N., GÜRDAĞ G., ÇAYLI G., et al., Project Supported by Higher Education Institutions, Temporal lobe epilepsi hayvan modelinde ilaç bağı nanopartiküllerin tedavi düzeyi ve kan-beyin bariyeri dinamikleri, 2016 - 2017

ELMAS İ., GÖKTEPE M. C., ARICAN N., KAYA M., ORHAN N., UĞUR YILMAZ C., KÜÇÜK M., AHISHALI B., Project Supported by Higher Education Institutions, Hipertansiyon ve Warfarin Kullanımının Travmatik Kafa İçi Kanamalara Etkisi, 2016 - 2017

ORHAN N., EKİZOĞLU O., KAYA M., UĞUR YILMAZ C., ARICAN N., ELMAS İ., AHISHALI B., KÜÇÜK M., TOKLU A. S., Project Supported by Higher Education Institutions, Nöronların hiperbarik oksijen uygulanmasına yanıtı, 2014 - 2016

ORHAN N., Project Supported by Higher Education Institutions, Effects of Beta-Hydroxybutyrate on Brain Vascular Permeability in Rats with Traumatic Brain Injury, 2014 - 2014

ORHAN N., Project Supported by Higher Education Institutions, Travmatik Beyin Hasarı Oluşturulan Sıçanlarda Beta-Hidroksibütiratın Beyin Damar Geçirgenliğine Etkileri, 2011 - 2013

ORHAN N., TUBITAK Project, Serebral iskemide Vinpocetine bileşiğinin olaya ilişkin potansiyeller ve mitokondrial enzimler üzerine etkileri., 2007 - 2009

## Memberships / Tasks in Scientific Organizations

Beyin Araştırmaları Derneği, Member, 2013 - Continues  
Türk Biyokimya Derneği, Member, 2012 - Continues

## Metrics

Publication: 136  
Citation (WoS): 398  
Citation (Scopus): 432  
H-Index (WoS): 15  
H-Index (Scopus): 15

## Congress and Symposium Activities

16. Sinirbilim Kongresi, Attendee, İstanbul, Turkey, 2018  
15. Adli Bilimler Kongresi, Attendee, İzmir, Turkey, 2017  
15. Ulusal Sinirbilim Kongresi, Attendee, Sakarya, Turkey, 2017  
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Senturk E, Esen F, Ergin-Ozcan P, Orhun G, Orhan N, Arıcan N, Kucuk M, Kaya M. Effects of different doses and serotypes of LPS on blood-brain barrier permeability in Sprague Dawley rats. 33rd International Symposium on Intensive Care and Emergency Medicine, Critical Care 2013, 17(Suppl2):P21 (doi: 10.1186/cc11959): 8, Brussels, Belgium, 19-22 March 2013., Attendee, Brussels, Turkey, 2013

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hyperbaric air on the blood-brain barrier permeability in rats; an experimental study. 45th Annual Scientific Meeting, June 21-23, 2012, J.W. Marriott Desert Ridge Resort & Spa, Phoenix, Arizona, B17, page: 40., Attendee, J.W. Marriott Desert Ridge Resort & Spa, Phoenix, Arizona, Turkey, 2012

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2011. Özet Kitabı, S33, sayfa:98., Attendee, İstanbul Üniversitesi-İstanbul, Turkey, 2011

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