

## Lect. PhD BUKET NEBİYE DEMİR

### Personal Information

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### International Researcher IDs

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Yoksis Researcher ID: 169118

### Education Information

Doctorate, Ankara University, Biyoteknoloji Enstitüsü, Temel Biyoteknoloji, Turkey 2004 - 2011

Postgraduate, Ankara University, Biyoteknoloji Enstitüsü, Temel Biyoteknoloji, Turkey 2002 - 2004

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji, Turkey 1998 - 2002

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Medical Biology

### Academic Titles / Tasks

Lecturer PhD, Hacettepe University, Nörolojik Bilimler ve Psikiyatri Enstitüsü, Nörolojik Bilimler ve Psikiyatri Enstitüsü, 2010 - Continues

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

- I. **Cortical spreading depression can be triggered by sensory stimulation in primed wild type mouse brain: a mechanistic insight to migraine aura generation**  
HANALIOĞLU Ş., TAŞKIRAN SAĞ A., KARATAŞ KURŞUN H., Donmez-Demir B., YILMAZ ÖZCAN S., EREN KOÇAK E., GURSOY-OZDEMİR Y., DALKARA T.  
JOURNAL OF HEADACHE AND PAIN, vol.23, no.1, 2022 (SCI-Expanded)
- II. **F-actin polymerization contributes to pericyte contractility in retinal capillaries**  
Kureli G., Yılmaz-Ozcan S., Erdener Ş. E., Donmez-Demir B. N., Yemisci M., Karatas H., Dalkara T.  
EXPERIMENTAL NEUROLOGY, vol.332, 2020 (SCI-Expanded)
- III. **KCl-induced cortical spreading depression waves more heterogeneously propagate than optogenetically-induced waves in lissencephalic brain: an analysis with optical flow tools**

Donmez-Demir B., ERDENER Ş. E., KARATAŞ KURŞUN H., Kaya Z., ULUSOY İ., DALKARA T.

SCIENTIFIC REPORTS, vol.10, no.1, 2020 (SCI-Expanded)

- IV. **Stress modulates cortical excitability via alpha-2 adrenergic and glucocorticoid receptors: As assessed by spreading depression**  
Yapici-Eser H., DONMEZ-DEMİR B. N., Kilic K., Eren-Kocak E., DALKARA T.  
EXPERIMENTAL NEUROLOGY, vol.307, pp.45-51, 2018 (SCI-Expanded)
- V. **Metabolomic Estimation of the Diagnosis and Onset Time of Permanent and Transient Cerebral Ischemia**  
CAMBRAY S., Portero-Otin M., JOVE M., TORREGUÍTART N., Colas-Campas L., SANZ A., BENABDELHAK I., Yemisci M., DALKARA T., Donmez-Demir B. N., et al.  
MOLECULAR NEUROBIOLOGY, vol.55, no.7, pp.6193-6200, 2018 (SCI-Expanded)
- VI. **Treatment of plasminogen deficiency patients with fresh frozen plasma**  
Kizilocak H., Ozdemir N., Dikme G., Koc B., Atabek A. A., Cokugras H., Iskeleli G., DEMİR B. N., Christiansen N. M., Ziegler M., et al.  
PEDIATRIC BLOOD & CANCER, vol.65, no.2, 2018 (SCI-Expanded)
- VII. **Inadequate Brain Glycogen or Sleep Increases Spreading Depression Susceptibility**  
KILIÇ K., Karatas H., DONMEZ-DEMİR B. N., Eren-Kocak E., GURSOY-OZDEMİR Y., Can A., PETİT J., Magistretti P. J., DALKARA T.  
ANNALS OF NEUROLOGY, vol.83, no.1, pp.61-73, 2018 (SCI-Expanded)
- VIII. **Murine Sialidase Neu3 facilitates GM2 degradation and bypass in mouse model of Tay-Sachs disease**  
SEYRANTEPE V., DEMİR S. A., Timur Z. K., Von Gerichten J., Marsching C., ERDEMLİ E., Oztas E., Takahashi K., Yamaguchi K., Ates N., et al.  
EXPERIMENTAL NEUROLOGY, vol.299, pp.26-41, 2018 (SCI-Expanded)
- IX. **Microembolism of single cortical arterioles can induce spreading depression and ischemic injury; a potential trigger for migraine and related MRI lesions**  
Donmez-Demir B. N., Yemisci M., Kilic K., GURSOY-OZDEMİR Y., Soylemezoglu F., Moskowitz M., DALKARA T.  
BRAIN RESEARCH, vol.1679, pp.84-90, 2018 (SCI-Expanded)
- X. **Novel plasminogen gene mutations in Turkish patients with type I plasminogen deficiency**  
DEMİR B. N., CELKAN T. T., SARPER N., Deda G., İNCE E., Caliskan U., Ozturk G., KARAGUN B. Ş., Kupesiz A., Tokgoz H., et al.  
BLOOD COAGULATION & FIBRINOLYSIS, vol.27, no.6, pp.637-644, 2016 (SCI-Expanded)
- XI. **Squalenoyl adenosine nanoparticles provide neuroprotection after stroke and spinal cord injury**  
Gaudin A., Yemisci M., EROĞLU H., Lepetre-Mouelhi S., Turkoglu O. F., Donmez-Demir B., Caban S., SARGON M. F., Garcia-Argote S., Pieters G., et al.  
NATURE NANOTECHNOLOGY, vol.9, no.12, pp.1054-1062, 2014 (SCI-Expanded)
- XII. **GJB2 and mitochondrial A1555G gene mutations in nonsyndromic profound hearing loss and carrier frequencies in healthy individuals**  
Baysal E., Bayazit Y. A., Ceylaner S., Alatas N., Donmez B. N., Ceylaner G., San I., Korkmaz B., Yilmaz A., Menevse A., et al.  
JOURNAL OF GENETICS, vol.87, no.1, pp.53-57, 2008 (SCI-Expanded)
- XIII. **FXIII gene Val34Leu polymorphism in Turkish children with cerebral infarct**  
Akar N., Donmez B. N., Deda G.  
JOURNAL OF CHILD NEUROLOGY, vol.22, no.2, pp.222-224, 2007 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Data of ascending cortical vein occlusion induced spreading depression**  
Donmez-Demir B. N., Yemisci M., DALKARA T.  
DATA IN BRIEF, vol.18, pp.1462-1465, 2018 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Chronic administration of lamotrigine or acetyl salicylic acid increases cortical spreading depolarization threshold in mice**  
Sahin G., Donmez-Demir B., Uzun S., KARATAŞ KURŞUN H.  
International Headache Congress (IHC), Seoul, South Korea, 14 - 17 September 2023, pp.182-183
- II. **Resolution of neuroinflammation triggered by cortical spreading depression**  
KAYA Z., BELDER N., YILMAZ ÖZCAN S., DEMİR B. N., EREN KOÇAK E., KARATAŞ KURŞUN H., YEMİŞCİ ÖZKAN M., DALKARA T.  
Society for Neurosciency, chicago, United States Of America, 19 - 23 October 2019
- III. **Cerebral peri-microvascular glycogen utilization has a role in endothelium-pericyte interaction in mice**  
URUK G., YILMAZ ÖZCAN S., DEMİR B. N., KARATAŞ KURŞUN H., EREN KOÇAK E., DURAN J., GUINOVAR T., DALKARA T., YEMİŞCİ ÖZKAN M.  
Society for Neuroscience, chicago, United States Of America, 19 - 23 October 2019
- IV. **Molecular Motor Mechanism of Contraction in Central Nervous System Pericytes**  
KÜRELİ G., YILMAZ ÖZCAN S., CAN A., DEMİR B. N., YEMİŞCİ ÖZKAN M., KARATAŞ KURŞUN H., EREN KOÇAK E., DALKARA T.  
17. Ulusal Sinirbilim Kongresi, Trabzon, Turkey, 04 April 2019
- V. **Merkezi sinir sistemi perisitlerinde kasılmanın moleküler mekanizması**  
KÜRELİ G., YILMAZ ÖZCAN S., CAN A., DEMİR B. N., YEMİŞCİ ÖZKAN M., KARATAŞ KURŞUN H., EREN KOÇAK E., DALKARA T.  
17. Ulusal Sinirbilim Kongresi, Turkey, 4 - 07 April 2019
- VI. **Migren Araştırmaları için yeni bir kortikal yayılan depresyona yatkınlık modeli: Na-K ATPaz A-2 RNA İnterferansı**  
TAŞKIRAN SAĞ A., Yılmaz Özcan S., KARATAŞ KURŞUN H., DEMİR B. N., Hanalioğlu Ş., EREN KOÇAK E., DALKARA T.  
53. Ulusal Nöroloji Kongresi, Turkey, 25 - 29 November 2017
- VII. **In vivo alpha-smooth muscle actin down regulation by small interfering RNA reduces pericyte contraction in the brain and retina.**  
YILMAZ ÖZCAN S., Alarcon Martinez L., DEMİR B. N., DALKARA T., YEMİŞCİ ÖZKAN M.  
World Congress of Neurology, 16 - 21 September 2017
- VIII. **Supraphysiological whisker stimulation initiates an inflammatory response in the mouse barrel cortex in vivo**  
KARATAŞ KURŞUN H., DEMİR B. N., DALKARA T.  
9. World Congress of Neuroscience, 7 - 11 July 2015

## Supported Projects

YEMİŞCİ ÖZKAN M., URUK G., DALKARA T., KARATAŞ KURŞUN H., EREN KOÇAK E., DEMİR B. N., YILMAZ ÖZCAN S., Project Supported by Higher Education Institutions, Glikojenin iskemik inme ve retinal iskemi üzerine olan etkilerinin nöroglivasküler seviyede incelenmesi, 2019 - 2020

YEMİŞCİ ÖZKAN M., DEMİR B. N., KARATAŞ KURŞUN H., EREN KOÇAK E., YILMAZ ÖZCAN S., DALKARA T., ŞENEL B., Project Supported by Higher Education Institutions, Beyin Kökenli Nörotrofik Faktörün (BDNF) Erken Dönem Nöroinflamasyona Etkileri, 2018 - 2020

KARATAŞ KURŞUN H., DALKARA T., Dehghani Mohammadi A., DEMİR B. N., YILMAZ ÖZCAN S., Project Supported by Higher Education Institutions, Kortikal yayılan depresyon familial hemiplejik migren tip 1 transgenik farede artmış inflammasom aktivasyonuna neden olur, 2018 - 2020

DEMİR B. N., DALKARA T., YEMİŞCİ ÖZKAN M., Project Supported by Higher Education Institutions, Fare beyininde tekrarlayan KYDlerin ve anestezinin doku histolojisi üzerine olası sonuçlarının incelenmesi, 2018 - 2019

DEMİR B. N., Project Supported by Higher Education Institutions, Kortikal Yayılan Depresyon Hemodinamik Mini-

inmelere Neden Olur: Migrendeki Beyaz Cevher Lezyonlarının Olası Bir Nedeni, 2015 - 2017

## **Metrics**

Publication: 22

Citation (WoS): 303

Citation (Scopus): 375

H-Index (WoS): 8

H-Index (Scopus): 9

## **Non Academic Experience**

Hacettepe Üniversitesi Tıp Fak.

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