

## **Prof. HAYRUNNİSA BOLAY BELEN**

### **Personal Information**

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### **International Researcher IDs**

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### **Education Information**

Post Doctorate of Medicine, Gazi University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, Turkey 2009 - 2011

Doctorate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Temel Nörolojik Bilimler (Dr), Turkey 1995 - 1999

Expertise In Medicine, Hacettepe University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, Turkey 1988 - 1995

Undergraduate, Hacettepe University, Tıp Fakültesi, Tıp Pr., Turkey 1982 - 1988

### **Dissertations**

Doctorate, İskemik penumbrada kalıcı sinaptik transmisyon bozukluğunun altında yatan presinaptik mekanizmaların incelenmesi, Hacettepe University, Sağlık Bilimleri Enstitüsü, Temel Nörolojik Bilimler (Dr), 1999

Expertise In Medicine, Myastenia Gravis Hastalarında kronik alfa-interferon kullanımının NK hücre aktivitesi ve sayısı, T- lenfosit alt grupları , asetilkolin reseptör antikorları, tek lif EMG ve klinik parametrelerle etkisinin değerlendirilmesi, Hacettepe University, 1995

### **Research Areas**

Medicine, Neurology, Neurobiology, Natural Sciences

### **Academic Titles / Tasks**

Professor, Gazi University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2006 - Continues

Associate Professor, Gazi University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2002 - 2006

Researcher, Harvard University, Massachusetts General Hospital, 2000 - 2002

Expert PhD, Hacettepe University, Nörolojik Bilimler Ve Psikiyatri Enstitüsü, Nörolojik Ve Psikiyatrik Temel Bilimler

Anabilim Dalı (Disiplinlerarası), 1995 - 1999

Research Assistant PhD, Hacettepe University, Tıp Fakültesi (Türkçe), Dahili Tıp Bilimleri Bölümü, 1988 - 1995

Research Assistant, University of Bristol, Neuroscience, Neuropathology, 1990 - 1990

## **Academic and Administrative Experience**

YÖK Genel Kurul Üyesi, Gazi University, Tıp Fakültesi, Dahili Tip Bilimleri, 2023 - Continues  
Manager of Research and Application Center, Gazi University, Araştırma ve Uygulama Merkezleri, NÖROM Nörobilim ve Nöroteknoloji Ortak Uygulama Araştırma Mükemmeliyet Merkezi, 2020 - Continues  
Head of Department, Gazi University, Tıp Fakültesi, Dahili Tip Bilimleri, 2014 - Continues  
Manager of Research and Application Center, Gazi University, Araştırma Ve Uygulama Merkezleri, Nöropsikiyatri Eğitim Araştırma Ve Uygulama Merkezi Müdürlüğü, 2008 - 2024  
Gazi University, Sağlık Bilimleri Enstitüsü, Nörobilim (Dr), 2008 - 2019

## **Advising Theses**

Bahçelioğlu M., Belen H. B., Migren hastalarının çoklu duyusal bütünlemeye yönelik sanal dinamik etkileşim sistemleri ile incelenmesi, Doctorate, M.SEVGİ(Student), 2024  
Belen H. B., Endometriozis modelinde CGRP antagonizmasının etkilerinin incelenmesi, Doctorate, F.BÜYÜKTAŞKIN(Student), 2023  
Belen H. B., İLAÇ AŞIRI KULLANIM BAŞAĞRISINDA GIDA TETİKLEYİCİLERİ VE HUZURSUZ BAĞIRSAK SENDROMU BİRLİKTELİĞİ, Expertise In Medicine, M.Ceren(Student), 2023  
Belen H. B., SULFOTRANSFERAZ İNHİBİTÖRLERİNİN KORTİKAL YAYILAN DEPRESYON VE DAVRANIŞ ÜZERİNE ETKİSİ, Doctorate, D.VURALLI(Student), 2022  
Belen H. B., İkili uyarılmış somatosensorial potansiyellerin yüksek frekans bandında analizi, Doctorate, Ü.ÖZGÜR(Student), 2022  
Belen H. B., FİTALATLARIN NÖROGELİŞİMSEL ETKİLERİNİN VE ETKİ MEKANİZMALARININ GLİAL HÜCRE KÜLTÜRÜNDE DEĞERLENDİRİLMESİ, Doctorate, E.KELEŞ(Student), 2022  
Belen H. B., İkili somatosensoriyal uyarılarda interstimulus interval değişiminin kortikal potansiyellere etkisi, Doctorate, N.TEPE(Student), 2021  
BELEN H. B., Evaluation Of Visual Perception In Migraine, Expertise In Medicine, A.BAŞARI(Student), 2020  
BELEN H. B., The Effects Of Insomnia On Pain And Anxiety, Doctorate, S.ERDOĞAN(Student), 2018  
BELEN H. B., Glial cell iron responses in inflammation related migraine pathogenesis, Doctorate, L.ARZU(Student), 2017  
BELEN H. B., Behavioral effects of gabapentin on sleep deprivation induced schizophrenia-like state in rats, Doctorate, F.DUYGU(Student), 2017  
BELEN H. B., Evaluation of sensorial perception in the migraine, Expertise In Medicine, H.EVREN(Student), 2014  
BELEN H. B., Investigating behavioral effects of nitroglycerin induced headache in rats, Doctorate, D.TUBA(Student), 2013  
BELEN H. B., The effect of cgrp receptor antagonist on behavior induced by cortical spreading depression, Expertise In Medicine, A.FİLİZ(Student), 2012  
BELEN H. B., Ratlarda yayılan kortikal depresyonun subkortikal etkilerinin incelenmesi, Expertise In Medicine, N.TEPE(Student), 2011  
BELEN H. B., Atmosferik toz içeren hava koşullarının migren başağrısını tetikleyici etkisinin incelenmesi, Expertise In Medicine, H.DOĞANAY(Student), 2006

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

- I. **Lipopolysaccharide, VE-cadherin, HMGB1, and HIF-1 $\alpha$  levels are elevated in the systemic circulation in chronic migraine patients with medication overuse headache: evidence of leaky gut and inflammation**  
Vuralli D., Ceren Akgor M., Gok Dagidir H., Gulbahar O., Yalinay M., Bolay H. B.  
JOURNAL OF HEADACHE AND PAIN, vol.25, no.1, 2024 (SCI-Expanded)
- II. **Headaches and facial pain attributed to SARS-CoV-2 infection and vaccination: a systematic review.**

- Mitsikostas D. D., Caronna E., De Tommaso M., Deligianni C. I., Ekizoglu E., Bolay H. B., Göbel C. H., Kristoffersen E. S., Lampl C., Moro E., et al.  
European journal of neurology, 2024 (SCI-Expanded)
- III. **Other primary headache disorders: Data from the HEAD-MENA-A study in Africa, Asia, and the Middle East**  
Atalar A., Genç H., Ur Özçelik E., BELEN H. B., Uluduz D., Unal-Cevik U., Kissani N., Luvsannorov O., Togha M., Ozge A., et al.  
Clinical Neurology and Neurosurgery, vol.236, 2024 (SCI-Expanded)
- IV. **Reply to the letter: Headaches during/after SARS-CoV-2 infection/vaccination can be primary and secondary as well as acute and chronic, by Finsterer J and Mehri S**  
Mitsikostas D. D., Caronna E., De Tommaso M., Deligianni C. I., Ekizoglu E., BELEN H. B., Göbel C. H., Kristoffersen E. S., Lampl C., Moro E., et al.  
European Journal of Neurology, 2024 (SCI-Expanded)
- V. **Leaky gut and inflammatory biomarkers in a medication overuse headache model in male rats**  
VURALLI D., Gök Dağıdır H., Abbasoğlu Topa E., BELEN H. B.  
Turkish Journal of Medical Sciences, vol.54, no.1, pp.33-41, 2024 (SCI-Expanded)
- VI. **Evaluation of Auditory Temporal Discrimination Thresholds in Migraine Patients.**  
Gokdogan O., Gokdogan C., Yalcinkaya F., Cengiz B., Bolay H. B.  
Audiology & neuro-otology, vol.28, pp.420-426, 2023 (SCI-Expanded)
- VII. **COVID-19 vaccination-related headache showed two different clusters in the long-term course: a prospective multicenter follow-up study (COVA-Head Study)**  
Atalar A. Ç., Acarlı A. N. Ö., BAYKAL B., Martelletti P., BELEN H. B., Ertaş M., Ekizoğlu E., Karadaş Ö., POLAT B., Gençdal I. Y., et al.  
Journal of Headache and Pain, vol.24, no.1, 2023 (SCI-Expanded)
- VIII. **The influence of stereotaxic lesions of claustrum on motor movements and behaviour in rats**  
Secen A. E., Akçalı D. T., Dileköz E., Cagil E., Divanlioglu D., Ocal O., Belen H. B.  
SOMATOSENSORY AND MOTOR RESEARCH, 2023 (SCI-Expanded)
- IX. **Medication overuse headache is associated with elevated lipopolysaccharide binding protein and pro-inflammatory molecules in the bloodstream.**  
Dağıdır H. G., Topa E. G., Vuralli D., Belen H. B.  
The journal of headache and pain, vol.24, no.1, pp.150, 2023 (SCI-Expanded)
- X. **Distinct Food Triggers for Migraine, Medication Overuse Headache and Irritable Bowel Syndrome**  
Akgor M. C., Vuralli D., Sucu D. H., Gokce S., Tasdelen B., Gultekin F., Bolay H. B.  
JOURNAL OF CLINICAL MEDICINE, vol.12, no.20, 2023 (SCI-Expanded)
- XI. **Mitochondrial metabolism related markers GDF-15, FGF-21, and HIF-1 $\alpha$  are elevated in pediatric migraine attacks**  
Kilinc Y. B., Kilinc E., Danis A., Hancı F., Turay S., Ozge A., BELEN H. B.  
Headache, vol.63, no.8, pp.1076-1086, 2023 (SCI-Expanded)
- XII. **Secondary headache disorders in Turkey, the Middle East, Asia, and Africa: A cross-sectional, multicenter study**  
Evlice A., Genç H., Uluduz D., BAYKAL B., BELEN H. B., ÜNAL ÇEVİK I., Kissani N., Luvsannorov O., Togha M., Ozge A.  
Cephalgia : an international journal of headache, vol.43, no.8, 2023 (SCI-Expanded)
- XIII. **Female migraine patients had lower COVID-19 phobia and PCL-5 scores during the lockdown period.**  
Aktan Ç., Toptan T., Utku Ç., Bolay H. B.  
Acta neurologica Belgica, vol.123, no.4, pp.1313-1320, 2023 (SCI-Expanded)
- XIV. **Levcromakalim provokes an acute rapid-onset migraine-like phenotype without inducing cortical spreading depolarization.**  
Alpay B., Cimen B., Akaydin E., Bolay H. B., Sara Y.  
The journal of headache and pain, vol.24, no.1, pp.93, 2023 (SCI-Expanded)
- XV. **Cross-sectional, hospital-based analysis of headache types using ICHD-3 criteria in the Middle East, Asia, and Africa: the Head-MENAA study.**

- Genc H., Baykan B., Bolay H. B., Uluduz D., Unal-Cevik I., Kissani N., Luvsannorov O., Togha M., Ozdemir A. A., Ozge A., et al.  
The journal of headache and pain, vol.24, no.1, pp.24, 2023 (SCI-Expanded)
- XVI. **Visual temporal discrimination is impaired in patients with migraine without aura.**  
Başarı A., Boran H. E., Vuralli D., Cengiz B., Bolay H. B.  
Headache, vol.63, no.2, pp.202-210, 2023 (SCI-Expanded)
- XVII. **Headache attributed to SARS-CoV-2 infection, vaccination and the impact on primary headache disorders of the COVID-19 pandemic: A comprehensive review.**  
Caronna E., Van Den Hoek T. C., Bolay H. B., Garcia-Azorin D., Gago-Veiga A. B., Valeriani M., Takizawa T., Messlinger K., Shapiro R. E., Goadsby P. J., et al.  
Cephalgia : an international journal of headache, vol.43, no.1, 2023 (SCI-Expanded)
- XVIII. **Migraine susceptibility is modulated by food triggers and analgesic overuse via sulfotransferase inhibition**  
Vuralli D., Arslan B., Topa E. G., De Morais A. L., Gulbahar Ö., Ayata C., Bolay H. B.  
JOURNAL OF HEADACHE AND PAIN, vol.23, no.1, 2022 (SCI-Expanded)
- XIX. **Cluster Analysis Revealed Two Hidden Phenotypes of Cluster Headache**  
Dikmen P. Y., Ari C., Sahin E., Ertas M., Domac F. M., Aydinlar E., Şahin A., Ozge A., Ozguner H., Karadas O., et al.  
FRONTIERS IN NEUROLOGY, vol.13, 2022 (SCI-Expanded)
- XX. **Interrupted processing of paired somatosensory stimuli in short interstimulus intervals: role of thalamo-cortical oscillations**  
Tepe N., Boran H. E., Geduk S., Dileküz E., Ulusoy İ., Belen H. B.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.52, no.4, pp.1371-1377, 2022 (SCI-Expanded)
- XXI. **Microglial iron trafficking: new player in brain injury**  
Keles E., Kazan H. H., Aral L. A., Belen H. B.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.52, no.5, pp.1415-1424, 2022 (SCI-Expanded)
- XXII. **HMGB1, NLRP3, IL-6 and ACE2 levels are elevated in COVID-19 with headache: a window to the infection-related headache mechanism**  
Bolay H. B., Karadas Ö., Oztürk B., Sonkaya R., Tasdelen B., Bulut T. D. S., Gülbahar Ö., Özge A., Baykan B.  
JOURNAL OF HEADACHE AND PAIN, vol.22, no.1, 2021 (SCI-Expanded)
- XXIII. **HMGB1, NLRP3, IL-6 and ACE2 Levels Are Elevated in COVID-19 with Headache: A Window to the Infection-Related Headache Mechanism**  
Belen H. B., Karadas O., Ozturk B., Sonkaya R., Tasdelen B., Bulut T., Gülbahar Ö., Ozge A., Baykan B.  
JOURNAL OF HEADACHE AND PAIN, vol.22, no.SUPPL 2, 2021 (SCI-Expanded)
- XXIV. **Clinical characteristics and burden of a large series with cluster headache from Turkey**  
Dikmen P. Y., Ari C., Sahin E., Ertas M., Domac F. M., AYDINLAR E., Sahin A., Ozge A., Ozguner H., Karadas O., et al.  
JOURNAL OF HEADACHE AND PAIN, vol.22, no.SUPPL 1, pp.21-22, 2021 (SCI-Expanded)
- XXV. **HMGB1, NLRP3, IL-6 and ACE2 Levels Are Elevated in COVID-19 with Headache: A Window to the Infection-Related Headache Mechanism**  
BELEN H. B., Karadas O., Ozturk B., Sonkaya R., Tasdelen B., Bulut T., Gülbahar Ö., Ozge A., Baykan B.  
CEPHALALGIA, vol.41, no.1\_SUPPL, pp.231, 2021 (SCI-Expanded)
- XXVI. **Clinical characteristics and burden of a large series with cluster headache from Turkey**  
Dikmen P. Y., Ari C., Sahin E., Ertas M., Domac F. M., AYDINLAR E., Sahin A., Ozge A., Ozguner H., Karadas O., et al.  
CEPHALALGIA, vol.41, no.1\_SUPPL, pp.32, 2021 (SCI-Expanded)
- XXVII. **Behavioral and Neurodevelopmental Effects of Early Interventions in Adult Wistar Rats**  
Küçükkarapınar M., Dönmez A., Candansayar S., Bozkurt A., Akçay E., Gülbahar Ö., Belen H. B.  
NOROPSİKIYATRI ARSIVİ-ARCHIVES OF NEUROPSYCHIATRY, vol.58, no.2, pp.137-145, 2021 (SCI-Expanded)
- XXVIII. **Latent class cluster analysis identified hidden headache phenotypes in COVID-19: impact of pulmonary infiltration and IL-6.**  
Karadaş Ö., Öztürk B., Sonkaya A. R., Taşdelen B., Özge A., Bolay H. B.  
Neurological sciences : official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology, vol.42, pp.1665-1673, 2021 (SCI-Expanded)

- XXIX. Urgent Need for ICHD Criteria for COVID-19-Related Headache: Scrutinized Classification Opens the Way for Research.**  
Baykan B., Özge A., Ertaş M., Atalar A. Ç., Bolay H. B.  
Noro psikiyatri arsivi, vol.58, pp.79-80, 2021 (SCI-Expanded)
- XXX. Updated review on the link between cortical spreading depression and headache disorders.**  
Vuralli D., Karatas H., Yemişçi M., Bolay H. B.  
Expert review of neurotherapeutics, vol.21, pp.1069-1084, 2021 (SCI-Expanded)
- XXXI. Cellular iron storage and trafficking are affected by GTN stimulation in primary glial and meningeal cell culture**  
Aral L. A., ERGÜN M. A., BELEN H. B.  
TURKISH JOURNAL OF BIOLOGY, vol.45, no.1, pp.46-55, 2021 (SCI-Expanded)
- XXXII. Iron homeostasis is altered in response to hypoxia and hypothermic preconditioning in brain glial cells**  
Aral L. A., Ergün M. A., Engin A. B., Börcek A. Ö., Belen H. B.  
Turkish journal of medical sciences, vol.50, no.8, pp.2005-2016, 2020 (SCI-Expanded)
- XXXIII. Thalamocortical network interruption: A fresh view for migraine symptoms**  
Bolay H. B.  
Turkish journal of medical sciences, vol.50, pp.1651-1654, 2020 (SCI-Expanded)
- XXXIV. Are Migraine Patients at Increased Risk for Symptomatic Coronavirus Disease 2019 Due to Shared Comorbidities?**  
Bolay H. B., ÖZGE A., Uluduz D., Baykan B.  
HEADACHE, vol.60, no.10, pp.2508-2521, 2020 (SCI-Expanded)
- XXXV. Effect of gabapentin on sleep-deprivation-induced disruption of prepulse inhibition**  
Kaya-Yertutanol F. D., UZBAY İ. T., Cevreli B., Bolay-Belen H. B.  
PSYCHOPHARMACOLOGY, vol.237, no.10, pp.2993-3006, 2020 (SCI-Expanded)
- XXXVI. Headache characteristics in COVID-19 pandemic-a survey study**  
Uygun O., Ertas M., Ekizoglu E., Bolay H. B., Özge A., Kocasoy Orhan E., Cagatay A. A., Baykan B.  
JOURNAL OF HEADACHE AND PAIN, vol.21, 2020 (SCI-Expanded)
- XXXVII. Case Series of Headache Characteristics in COVID-19: Headache Can Be an Isolated Symptom**  
Toptan T., Aktan C., Basari A., Bolay H. B.  
HEADACHE, vol.60, no.8, pp.1788-1792, 2020 (SCI-Expanded)
- XXXVIII. COVID-19 is a Real Headache!**  
Bolay H. B., Gül A., Baykal B.  
HEADACHE, vol.60, pp.1415-1421, 2020 (SCI-Expanded)
- XXXIX. Endothelial and Autonomic Functions in Patients with Migraine**  
Doğru M. T., Dileküz E., Alpu M., Eroğlu O., Kandemir H., Alp C., Bolay H. B.  
PAIN MEDICINE, vol.21, 2020 (SCI-Expanded)
- XL. Aura and Head pain: relationship and gaps in the translational models**  
Bolay H. B., VURALLI D., Goadsby P. J.  
JOURNAL OF HEADACHE AND PAIN, vol.20, no.1, 2019 (SCI-Expanded)
- XLI. Reduced Short-Latency Afferent Inhibition Indicates Impaired Sensorimotor Integrity During Migraine Attacks**  
Alaydin H. C., VURALLI D., Keceli Y., Can E., CENGİZ B., Bolay H. B.  
HEADACHE, vol.59, no.6, pp.906-914, 2019 (SCI-Expanded)
- XLII. CGRP receptor antagonist MK-8825 attenuates cortical spreading depression induced pain behavior**  
Filiz A., Tepe N., Eftekhari S., BORAN H. E., DİLEKÖZ E., Edvinsson L., Bolay H. B.  
CEPHALALGIA, vol.39, no.3, pp.354-365, 2019 (SCI-Expanded)
- XLIII. Peripheral Interventional Management in Headache Preface**  
ÖZGE A., Bolay H. B., Uluduz D., Karadas O.  
PERIPHERAL INTERVENTIONAL MANAGEMENT IN HEADACHE, 2019 (SCI-Expanded)
- XLIV. Behavioral and cognitive animal models in headache research**

- VURALLI D., Wattiez A., Russo A. F., Bolay H. B.  
 JOURNAL OF HEADACHE AND PAIN, vol.20, 2019 (SCI-Expanded)
- XLV. Headache Anatomy and Mechanisms of Peripheral Nerve Interventions**  
 Bolay H. B., Karadas O.  
 PERIPHERAL INTERVENTIONAL MANAGEMENT IN HEADACHE, pp.7-16, 2019 (SCI-Expanded)
- XLVI. Cognitive dysfunction and migraine**  
 VURALLI D., Ayata C., Bolay H. B.  
 JOURNAL OF HEADACHE AND PAIN, vol.19, 2018 (SCI-Expanded)
- XLVII. An Action Plan to Face the Challenge of Dementia: INTERNATIONAL STATEMENT ON DEMENTIA from IAP for Health**  
 Chertkow H., Hogan D. B., Black S., Feldman H., Gauthier S., Rockwood K., Masellis M., McGilton K., Tierney M. C., Rylett J., et al.  
 JPAD-JOURNAL OF PREVENTION OF ALZHEIMERS DISEASE, vol.5, no.3, pp.207-212, 2018 (SCI-Expanded)
- XLVIII. Visual and Postural Motion-Evoked Dizziness Symptoms Are Predominant in Vestibular Migraine Patients**  
 VURALLI D., Yıldırım F., AKÇALI D. T., İLHAN M. N., Goksu N., Bolay H. B.  
 PAIN MEDICINE, vol.19, no.1, pp.178-183, 2018 (SCI-Expanded)
- XLIX. Somatosensory temporal discrimination remains intact in tension-type headache whereas it is disrupted in migraine attacks**  
 VURALLI D., BORAN H. E., CENGİZ B., COŞKUN Ö., Bolay H. B.  
 CEPHALALGIA, vol.37, no.13, pp.1241-1247, 2017 (SCI-Expanded)
- L. CSD evolution in 2017**  
 Bolay H. B.  
 JOURNAL OF HEADACHE AND PAIN, vol.18, 2017 (SCI-Expanded)
- LI. Co-occurrence of migraine and atopy in children and adolescents: myth or a casual relationship?**  
 ÖZGE A., Uluduz D., Bolay H. B.  
 CURRENT OPINION IN NEUROLOGY, vol.30, no.3, pp.287-291, 2017 (SCI-Expanded)
- LII. The Effect of Hydrogen Sulphide on Experimental Cerebral Vasospasm**  
 Emmez H., BÖRCEK A. Ö., İŞIK GÖNÜL İ., BELEN H. B., Solaroglu L., Baykaner M. K.  
 TURKISH NEUROSURGERY, vol.27, no.3, pp.374-379, 2017 (SCI-Expanded)
- LIII. Metoclopramide inhibits trigeminovascular activation: evidence for effective acute attack treatment in migraine**  
 Doganay Aydin H., VURALLI D., AKÇALI D. T., Bolay H. B.  
 TURKISH JOURNAL OF MEDICAL SCIENCES, vol.47, no.1, pp.343-347, 2017 (SCI-Expanded)
- LIV. Nitroglycerin challenge induces lateralized headache in nasociliary nerve-ligated rats: implications for chronic migraine**  
 Akcali D. T., Belen A. D., Babacan A., Bolay H. B.  
 TURKISH JOURNAL OF MEDICAL SCIENCES, vol.47, no.2, pp.681-688, 2017 (SCI-Expanded)
- LV. Sex-Related Influences in Migraine**  
 Pavlovic J. M., Akcali D. T., Bolay H. B., Bernstein C., Maleki N.  
 JOURNAL OF NEUROSCIENCE RESEARCH, vol.95, pp.587-593, 2017 (SCI-Expanded)
- LVI. Chronic Migraine Is Associated With Sustained Elevation of Somatosensory Temporal Discrimination Thresholds**  
 VURALLI D., BORAN H. E., CENGİZ B., COŞKUN Ö., Bolay H. B.  
 HEADACHE, vol.56, no.9, pp.1439-1447, 2016 (SCI-Expanded)
- LVII. Somatosensory temporal discrimination is prolonged during migraine attacks.**  
 BORAN H. E., Cengiz B., Bolay H. B.  
 Headache, vol.56, no.1, pp.104-12, 2016 (SCI-Expanded)
- LVIII. Adulthood behavioral and neurodevelopmental effects of being raised by an ambivalent mother in rats: what does not kill you makes you stronger**  
 Donmez R. A., Candansayar S., Derinöz Gülcüyüz O., Gülbahar Ö., Bolay H. B.

- TURKISH JOURNAL OF MEDICAL SCIENCES, vol.46, no.5, pp.1546-1560, 2016 (SCI-Expanded)
- LIX. **Gender influences headache characteristics with increasing age in migraine patients**  
 Bolay H. B., ÖZGE A., Saginc P., Orekici G., Uluduz D., Yalin O., SIVA A., BIÇAKCI Ş., Karakurum B., Ozturk M.  
*CEPHALALGIA*, vol.35, no.9, pp.792-800, 2015 (SCI-Expanded)
- LX. **Gender differences in older adults with chronic migraine in Turkey**  
 ÖZGE A., Uluduz D., Selekler M., Ozturk M., BAYKAL B., Cinar N., Domac F. M., ZARIFOĞLU M., Inan L. E., AKYOL A., et al.  
*GERIATRICS & GERONTOLOGY INTERNATIONAL*, vol.15, no.5, pp.652-658, 2015 (SCI-Expanded)
- LXI. **The thalamic reticular nucleus is activated by cortical spreading depression in freely moving rats: prevention by acute valproate administration**  
 Tepe N., Filiz A., DİLEKÖZ E., Akcali D. T., Sara Y., Charles A., Bolay H. B.  
*EUROPEAN JOURNAL OF NEUROSCIENCE*, vol.41, no.1, pp.120-128, 2015 (SCI-Expanded)
- LXII. **CGRP receptor antagonists attenuate pain behavior induced by cortical spreading depression in freely moving rats**  
 Filiz A., Tepe N., Boran E., Sajedeh E., Lars E., Bolay H. B.  
*JOURNAL OF HEADACHE AND PAIN*, vol.15, 2014 (SCI-Expanded)
- LXIII. **Investigation of behavior of rats by nitroglycerine induced headache**  
 Akcali D. T., Sara Y., Babacan A., Bolay H. B.  
*JOURNAL OF HEADACHE AND PAIN*, vol.15, 2014 (SCI-Expanded)
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Conference on Optical Tomography and Spectroscopy of Tissue VI, California, United States Of America, 23 - 26 January 2005, vol.5693, pp.417-423
- XC. **Cerebral hemodynamic reactivity measured by near-infrared spectroscopy in migraineurs**  
AKIN A., Emir U. E., Bolay H. B.  
27th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, Shanghai, China, 31 August - 03 September 2005, pp.1484-1487
- XCI. **Activation of ipsilateral pia-arachnoid cells and matrix metalloproteinases by cortical spreading depression in a migraine model**  
Bolay H. B., Gursoy-Ozdemir Y., Qui J., Bermpohl D., Wang X., Rosenberg G., Lo E., Moskowitz M.  
11th Congress of the International-Headache-Society, Rome, Italy, 12 - 16 September 2003, vol.23, pp.647
- XCII. **Spatially-resolved cerebral blood flow imaging using laser speckle**  
Dunn A., Bolay H. B., Maskowitz M., Boas D.  
Conference on Optical Diagnostics of Living Cells IV, San-Jose, Costa Rica, 24 - 25 January 2001, vol.4260, pp.16-19

## Supported Projects

BELEN H. B., Project Supported by Higher Education Institutions, İlaç aşırı kullanım baş ağrısı modelinde SULT1A1 enzim değişikliklerinin incelenmesi, 2023 - Continues

BELEN H. B., YALINAY A. M., VURALLI D., CEREN AKGÖR M. H., Project Supported by Higher Education Institutions, İlaç Aşırı Kullanım Başağrısında Nöroinflamasyon ve Mikrobiyota, 2022 - Continues

Belen H. B., Vurallı D., Üstün S., Çiçek M., Alkan S., TUBITAK Project, Migren ilişkili duyusal işlemleme bozukluğunda tanı ve izlem için nörogörüntüleme belirteç adayı tanımlanması ve yüz görüntü desenlerinden nesnel ağrı ölçütü geliştirilmesi, 2023 - 2027

Belen H. B., Bahçelioğlu M., Gülbahar Ö., Genç Ş., Aral L. A., Gümüş Akay G., Tüfekçi U., Vurallı D., TUBITAK Project, Kronik migren başağrısında tanısal nöroinflamatuar biyobelirteç paneli tanımlanması, 2023 - 2027

Bahçelioğlu M., Belen H. B., Bukan N., Şahin K., Atalar K., Akarca Dizakar S. Ö., Alim E., Gök Dağıdır H., Erten F., Project Supported by Higher Education Institutions, Effects of transauricular vagal nerve stimulation on pro and antiinflammatory cytokines in LPS induced cytokines storm model, 2022 - 2024

Belen H. B., Bahçelioğlu M., Çiçek M., Gümüş-Akay G., Temizel A., Aydin Son Y., Bayram B., Halıcı U., Ulusoy İ., Kalaycıoğlu C., et al., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, NÖROM Neuroscience and Neurotechnology Center

of Excellence, 2019 - 2024

Belen H. B., Keleş E., Aral A., Project Supported by Higher Education Institutions, Ftalatların nörogelişimsel etkilerinin ve etki mekanizmalarının glial hücre kültüründe değerlendirilmesi, 2018 - 2021

Belen H. B., Aral L. A., Project Supported by Higher Education Institutions, İnflamasyon ile ilişkili Migren Patogenezinde Glial Hücrelerde Gelişen Demir Yanıtları, 2017 - 2018

Aral A., Engin A. B., Belen H. B., TUBITAK Project, Hipoksinin ve Hipotermik Indüksiyonun Neonatal Fare Beyni Glial Hücrelerinde Demir Homeostazı ve Demir Regülatör Proteinleri Üzerine Etkileri, 2014 - 2016

BELEN H. B., Project Supported by Higher Education Institutions, RATLARDA NİTROGLİSERİNLE İNDÜKLENEN BAŞAĞRISININ DAVRANIŞA ETKİLERİNİN İNCELENMESİ, 2010 - 2013

BELEN H. B., Project Supported by Higher Education Institutions, CGRP RESEPTÖR ANTOGONİSTİNİN YAYILAN KORTİKAL DEPRESYONUN İNDÜKLEDİĞİ DAVRANIŞA ETKİLERİNİN İNCELENMESİ, 2011 - 2012

BELEN H. B., Project Supported by Higher Education Institutions, RATLARDA YAYILAN KORTİKAL DEPRESYONUN SUBKORTİKAL ETKİLERİNİN İNCELENMESİ, 2009 - 2011

Belen H. B., Project Supported by Public Organizations in Other Countries, Triggering mechanisms of migraine headache, 2005 - 2008

Belen H. B., Project Supported by Higher Education Institutions, Migren Başağrısında beyinden kaynaklanan tetikleyici mekanizmaların moleküler düzeyde incelenmesi, 2004 - 2007

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

Türkiye Bilimler Akademisi (TÜBA), Principal Member, 2019 - Continues, Turkey

International Headache Society, Member, 2008 - Continues, United Kingdom

Türk Nöroloji Derneği, Member, 2002 - Continues, Turkey

Türkiye Bilimler Akademisi (TÜBA), Associate Member, 2010 - 2019, Turkey

TÜBİTAK, Member of Science Committee, 2015 - 2018, Turkey

International Headache Society, Board Member, 2013 - 2015, United Kingdom

## **Scientific Refereeing**

JOURNAL OF HEADACHE AND PAIN, SCI Journal, December 2023

HEADACHE THE JOURNAL OF HEAD AND FACE PAIN, SCI Journal, December 2023

JOURNAL OF HEADACHE AND PAIN, SCI Journal, August 2023

JOURNAL OF HEADACHE AND PAIN, SCI Journal, August 2023

HEADACHE THE JOURNAL OF HEAD AND FACE PAIN, SCI Journal, July 2023

HEADACHE THE JOURNAL OF HEAD AND FACE PAIN, SCI Journal, June 2023

HEADACHE THE JOURNAL OF HEAD AND FACE PAIN, SCI Journal, May 2023

JOURNAL OF HEADACHE AND PAIN, SCI Journal, April 2023

HEADACHE THE JOURNAL OF HEAD AND FACE PAIN, SCI Journal, September 2022

HEADACHE THE JOURNAL OF HEAD AND FACE PAIN, SCI Journal, April 2022

HEADACHE THE JOURNAL OF HEAD AND FACE PAIN, SCI Journal, February 2022

HEADACHE THE JOURNAL OF HEAD AND FACE PAIN, SCI Journal, January 2022

HEADACHE THE JOURNAL OF HEAD AND FACE PAIN, SCI Journal, October 2021

CEPHALALGIA, SCI Journal, August 2021

CEPHALALGIA, SCI Journal, July 2021

CEPHALALGIA, SCI Journal, March 2021

HEADACHE, SCI Journal, August 2020

CEPHALALGIA, SCI Journal, July 2020

CEPHALALGIA, SCI Journal, July 2020

CEPHALALGIA, SCI Journal, June 2020

HEADACHE, SCI Journal, May 2020

CEPHALALGIA, SCI Journal, February 2020

## Tasks In Event Organizations

Belen H. B., International Headache Congress 2023 Seoul, Scientific Congress, Seoul, South Korea, Eylül 2023

Belen H. B., Akdeniz Nöropsikiyatri Günleri, Scientific Congress, Girne, Cyprus (Kktc), Mart 2022

Belen H. B., Ulusal Sinirbilim Kongresi, Scientific Congress, İstanbul, Turkey, Kasım 2021

Belen H. B., GLOBAL MIGRAINE & PAIN SUMMIT 5th MENA Meeting & 3rd Turkish African Meeting of Headache and Pain Management, Scientific Congress, Turkey, Ekim 2021

Belen H. B., COVID-19 ve Ağrı sempozyumu, Scientific Congress, Ankara, Turkey, Haziran 2021

Belen H. B., Global Migraine and pain MENA meeting, Scientific Congress, Antalya, Turkey, Kasım 2020

## Metrics

Publication: 256

Citation (WoS): 8709

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H-Index (WoS): 32

H-Index (Scopus): 34

## Congress and Symposium Activities

International Headache Congress 2023, Invited Speaker, Seoul, South Korea, 2023

International Headache Congress 2023, Invited Speaker, Seoul, South Korea, 2023

International Headache Congress 2023, Session Moderator, Seoul, South Korea, 2023

2. Mikrobiom Kongresi, Session Moderator, İstanbul, Turkey, 2022

2. Mikrobiom kongresi, Invited Speaker, İstanbul, Turkey, 2022

16th European Headache Congress (EHC), Invited Speaker, Vienna, Austria, 2022

58. Ulusal Nöroloji Kongresi, Invited Speaker, Antalya, Turkey, 2022

GLOBAL MIGRAINE & PAIN SUMMIT 6th MENA Meeting & 3rd Turkish African Meeting of Headache and Pain Management, Session Moderator, Antalya, Turkey, 2022

GLOBAL MIGRAINE & PAIN SUMMIT 6th MENA Meeting & 3rd Turkish African Meeting of Headache and Pain Management, Invited Speaker, Antalya, Turkey, 2022

GLOBAL MIGRAINE & PAIN SUMMIT 6th MENA Meeting & 3rd Turkish African Meeting of Headache and Pain Management, Session Moderator, Antalya, Turkey, 2022

7th Iranian International Headache & 2nd joint Headache-Pain Congress , Invited Speaker, Tehran, Iran, 2022

Turkic Lingusitic Group Meeting, Invited Speaker, İstanbul, Turkey, 2022

Akdeniz Nöropsikiyatri günleri , Invited Speaker, Girne, Cyprus (Kktc), 2022

16th World Congress on Controversies in Neurology (CONy), Invited Speaker, London, England, 2022

2nd Dubai Neurology Hybrid Congress, February 25-27, 2022. Dubai, BAE, Invited Speaker, Dubai, United Arab Emirates, 2022

57. Ulusal Nöroloji Kongresi, Invited Speaker, Antalya, Turkey, 2021

57. Ulusal Nöroloji Kongresi, Invited Speaker, Antalya, Turkey, 2021

Ulusal SinirBilim Kongresi, Invited Speaker, Ankara, Turkey, 2021

GLOBAL MIGRAINE & PAIN SUMMIT 5th MENA Meeting & 3rd Turkish African Meeting of Headache and Pain Management, Session Moderator, Antalya, Turkey, 2021

GLOBAL MIGRAINE & PAIN SUMMIT 5th MENA Meeting & 3rd Turkish African Meeting of Headache and Pain

Management, Invited Speaker, Antalya, Turkey, 2021  
GLOBAL MIGRAINE & PAIN SUMMIT 5th MENA Meeting & 3rd Turkish African Meeting of Headache and Pain Management, Invited Speaker, Antalya, Turkey, 2021  
15th World Congress on Controversies in Neurology (CONy), Invited Speaker, Dubai, United Arab Emirates, 2021  
The International Headache Congress IHS and EHF joint Congress , Invited Speaker, Berlin, Germany, 2021  
The International Headache Congress IHS and EHF joint Congress, Session Moderator, Berlin, Germany, 2021  
The International Headache Congress IHS and EHF joint Congress , Invited Speaker, Berlin, Germany, 2021  
COVID-19 ve Ağrı Sempozyumu, Invited Speaker, Ankara, Turkey, 2021  
Ulusal Ağrı e-Sempozyumu, Invited Speaker, Ankara, Turkey, 2021  
Başağrısı Kişi Okulu, Invited Speaker, İstanbul, Turkey, 2021  
HEADACHE COOPERATIVE OF THE PACIFIC, Invited Speaker, California, United States Of America, 2021  
2nd Iranian INTERNATIONAL Headache School , Invited Speaker, Tehran, Iran, 2021  
56. Ulusal Nöroloji Kongresi: 28 Kasım - 2 Aralık 2020 Online, Invited Speaker, Antalya, Turkey, 2020  
18. Ulusal Sinirbilim Kongresi USK2020, Invited Speaker, Ankara, Turkey, 2020  
Global migraine and Pain & MENA Meeting, Invited Speaker, Antalya, Turkey, 2020

## Awards

Uygun Yıldızan Ö., Ertaş M., Ekizoğlu Turgut E., Belen H. B., Özge A., Kocasoy Orhan E., Çağatay A. A., Baykan B., COVID-19 İLİŞKİLİ BAŞ AĞRILARININ KARAKTERİSTİK ÖZELLİKLERİİNİN İNCELENMESİ, Türk Nöroloji Derneği, December 2020  
Belen H. B., EFNS Bildiri Ödülü, Efns, August 2008  
Belen H. B., TÜBİTAK Bilim Teşvik Ödülü, Tübitak, October 2004  
Belen H. B., Bilim Teşvik Ödülü, Bayındır Tıp, September 2003  
Belen H. B., Eczacıbaşı Bilimsel araştırma Ödülü, Eczacıbaşı, October 1999  
Belen H. B., Beyin Araştırmaları Derneği Teşvik Ödülü, Beyin Araştırmaları Derneği, October 1999  
Belen H. B., Beyin Araştırmaları Derneği Bilimsel proje ödülü, Beyin Araştırmaları Derneği, September 1998  
Belen H. B., Hacettepe Üniversitesi Senatosu Bilim Başarı Belgesi, Hacettepe Üniversitesi, December 1992  
Belen H. B., Young Investigator Award, American College Of Angiology, October 1991  
Belen H. B., Caner H. H., Oruçkaptan H., Mahir Tevruz Ödülü, Türk Nöroşirürji Derneği, May 1990  
Belen H. B., TÜBİTAK Liselerarası Fizik Yarışması, Tübitak, May 1981