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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 penumbra 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 antikolarları, tek lif EMG ve klinik parametrelere 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 Tıp 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 Tıp 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 duyuşsal 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

- Extrasynaptic δ GABAA receptors mediate resistance to migraine-like phenotype in rats**
Alpay B., Cimen B., AKAYDIN E., ONAT F., BELEN H. B., SARA M. Y.
Journal of Headache and Pain, vol.25, no.1, 2024 (SCI-Expanded)
- Lipopolysaccharide, VE-cadherin, HMGB1, and HIF-1 α 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)

- III. **Microbiota alterations are related to migraine food triggers and inflammatory markers in chronic migraine patients with medication overuse headache.**
Vuralli D., Ceren Akgor M., Dagidir H. G., Onat P., Yalinay M., Sezerman U., Bolay H. B.
The journal of headache and pain, vol.25, no.1, pp.192, 2024 (SCI-Expanded)
- IV. **tVNS alters inflammatory response in adult VPA-induced mouse model of autism: evidence for sexual dimorphism**
Dağidir H. G., Bukan N., Bahçeliöğlü M., Çalikuşu A., Alim E., Akarca Dizakar S. Ö., Abbasoğlu Topa E. G., Belen H. B.
FEBS OPEN BIO, vol.1, no.1, pp.1-12, 2024 (SCI-Expanded)
- V. **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, vol.31, no.7, 2024 (SCI-Expanded)
- VI. **Phthalate exposure induces cell death and ferroptosis in neonatal microglial cells.**
Keleş E., Aral A., Elmazoğlu Z., Kazan H. H., Topa E. G. A., Ergün M. A., Bolay H. B.
Turkish journal of medical sciences, vol.54, no.5, pp.1102-1115, 2024 (SCI-Expanded)
- VII. **Micro RNA-146, HMGB1 and IL-17 profile and cognitive symptoms in chronic migraine**
Dagidir H. G., Bandirmali D., Akgor M. H. C., Vuralli D., YALINAY A. M., GÜMÜŞ AKAY G., BELEN H. B.
FEBS OPEN BIO, pp.362, 2024 (SCI-Expanded)
- VIII. **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, vol.31, no.6, 2024 (SCI-Expanded)
- IX. **Virtual dynamic interaction games reveal impaired multisensory integration in women with migraine.**
Ince M. S., Guzel I., Akgor M. C., Bahcelioglu M., Arikan K. B., Okasha A., Sengezer S., Bolay H. B.
Headache, vol.64, no.5, pp.482-493, 2024 (SCI-Expanded)
- X. **Leaky gut and inflammatory biomarkers in a medication overuse headache model in male rats**
VURALLI D., Gök Dağidir H., Abbasoğlu Topa E. G., BELEN H. B.
Turkish Journal of Medical Sciences, vol.54, no.1, pp.33-41, 2024 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **Medication overuse headache is associated with elevated lipopolysaccharide binding protein and pro-inflammatory molecules in the bloodstream.**
Dağidir 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)
- XVI. **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)
- XVII. **Mitochondrial metabolism related markers GDF-15, FGF-21, and HIF-1 α are elevated in pediatric migraine attacks**
Kilinc Y. B., Kilinc E., Danis A., Hanci F., Turay S., Ozge A., BELEN H. B.
Headache, vol.63, no.8, pp.1076-1086, 2023 (SCI-Expanded)
- XVIII. **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.
Cephalalgia : an international journal of headache, vol.43, no.8, 2023 (SCI-Expanded)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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.
Cephalalgia : an international journal of headache, vol.43, no.1, 2023 (SCI-Expanded)
- XXIV. **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)
- XXV. **Cluster Analysis Revealed Two Hidden Phenotypes of Cluster Headache**
Dikmen P. Y., Ari C., Sahin E., Ertas M., Domac F. M., Aydınlar E., Şahin A., Ozge A., Ozguner H., Karadas O., et al.
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- XXVI. **Interrupted processing of paired somatosensory stimuli in short interstimulus intervals: role of thalamo-cortical oscillations**
Tepe N., Boran H. E., Geduk S., Dileköz E., Ulusoy İ., Belen H. B.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.52, no.4, pp.1371-1377, 2022 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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., Gulbahar O., Ozge A., Baykan B.
JOURNAL OF HEADACHE AND PAIN, vol.22, no.SUPPL 2, 2021 (SCI-Expanded)

- XXX. **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)
- XXXI. **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)
- XXXII. **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., Gulbahar O., Ozge A., Baykan B.
CEPHALALGIA, vol.41, no.1_SUPPL, pp.231, 2021 (SCI-Expanded)
- XXXIII. **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.
NOROPSIKIYATRI ARSIVI-ARCHIVES OF NEUROPSYCHIATRY, vol.58, no.2, pp.137-145, 2021 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **COVID-19 is a Real Headache!**
Bolay H. B., Gül A., Baykal B.
HEADACHE, vol.60, pp.1415-1421, 2020 (SCI-Expanded)
- XLV. **Endothelial and Autonomic Functions in Patients with Migraine**
Doğru M. T., Dileköz E., Alpua M., Eroğlu O., Kandemir H., Alp C., Bolay H. B.
PAIN MEDICINE, vol.21, 2020 (SCI-Expanded)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **Headache Anatomy and Mechanisms of Peripheral Nerve Interventions**
Bolay H. B., Karadas O.
PERIPHERAL INTERVENTIONAL MANAGEMENT IN HEADACHE, pp.7-16, 2019 (SCI-Expanded)
- LI. **Peripheral Interventional Management in Headache Preface**
ÖZGE A., Bolay H. B., Uluduz D., Karadas O.
PERIPHERAL INTERVENTIONAL MANAGEMENT IN HEADACHE, 2019 (SCI-Expanded)
- LII. **Cognitive dysfunction and migraine**
VURALLI D., Ayata C., Bolay H. B.
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- LIII. **Visual and Postural Motion-Evoked Dizziness Symptoms Are Predominant in Vestibular Migraine Patients**
VURALLI D., Yildirim F., AKÇALI D. T., İLHAN M. N., Goksu N., Bolay H. B.
PAIN MEDICINE, vol.19, no.1, pp.178-183, 2018 (SCI-Expanded)
- LIV. **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)
- LV. **CSD evolution in 2017**
Bolay H. B.
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- LVI. **Somatosensory temporal discrimination remains intact in tension-type headache whereas it is disrupted in migraine attacks**
Vuralı D., Boran H. E., Cengiz B., Coşkun Ö., Bolay H. B.
CEPHALALGIA, vol.37, no.13, pp.1241-1247, 2017 (SCI-Expanded)
- LVII. **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)
- LVIII. **The Effect of Hydrogen Sulphide on Experimental Cerebral Vasospasm**
Emmez H., BÖRCEK A. Ö., İŞİK GÖNÜL İ., BELEN H. B., Solaroglu L., Baykaner M. K.
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- LIX. **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)
- LX. **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)
- LXI. **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)
- LXII. **Chronic Migraine Is Associated With Sustained Elevation of Somatosensory Temporal Discrimination Thresholds**
Vurallı D., Boran H. E., Cengiz B., Coşkun Ö., Bolay H. B.
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- LXIII. **Somatosensory temporal discrimination is prolonged during migraine attacks.**
BORAN H. E., Cengiz B., Bolay H. B.
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- LXIV. **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 Güteryüz O., Gülbahar Ö., Bolay H. B.
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- LXV. **Gender influences headache characteristics with increasing age in migraine patients**
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- VII. **Headache profiles of patients who were referred to neurology clinics: A subgroup analysis of the Head-MENAA study**
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21. Ulusal Sinirbilim Kongresi, Bolu, Turkey, 8 - 11 June 2023, pp.24
- XII. **Impairment of Multisensory integration processes in Migraine patients: A virtual dynamic interaction study**
İnce M. S., Güzel İ., Ceren Akgör M. H., Bahçelioğlu M., Arıkan K. B., Okasha A., Şengezer S., Belen H. B.
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- XIII. **Senar S., Vurallı D., Çelik G., Erturul Tokgöz E., Belen H. B.**
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- XIV. **Ceren Akgör M. H., Gökçe S., Vurallı D., Taşdelen B., Gültekin F., Belen H. B.**
58. Ulusal Nöroloji Kongresi, Antalya, Turkey, 19 - 24 November 2022, pp.17
- XV. **Gökçe S., Ceren Akgör M. H., Vurallı D., Taşdelen B., Gültekin F., Belen H. B.**
58. Ulusal Nöroloji Kongresi, Antalya, Turkey, 19 - 24 November 2022, pp.765
- XVI. **Food Triggers in Migraine Headache**
Gökçe S., Ceren Akgör M. H., Vurallı D., Taşdelen B., Gültekin F., Belen H. B.
Global Migraine & Pain Summit, 6th MENA Meeting & 4rd Turkish African Meeting Of Headache And Pain Management 2022, Antalya, Turkey, 2 - 05 November 2022, pp.41
- XVII. **Headache can be associated with a subdural hematoma that develops after spontaneous intracranial hypotension: a case report**

- Çelik G., Vurallı D., Akçalı D. T., Belen H. B.
Global Migraine & Pain Summit, 6th MENA Meeting & 4rd Turkish African Meeting Of Headache And Pain Management 2022, Antalya, Turkey, 2 - 05 November 2022, pp.36
- XVIII. **Co-occurrence of Medication Overuse Headache and Irritable Bowel Syndrome and Food Triggers**
Ceren Akgör M. H., Gökçe S., Vurallı D., Taşdelen B., Gültekin F., Belen H. B.
Global Migraine & Pain Summit, 6th MENA Meeting & 4rd Turkish African Meeting Of Headache And Pain Management 2022, Antalya, Turkey, 2 - 05 November 2022, pp.28
- XIX. **MİGRENDE GÖRSEL ALGININ DEĞERLENDİRİLMESİ**
BAŞARI A., BELEN H. B., CENGİZ B., BORAN H. E., VURALLI D.
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- XXI. **Evaluation of the Neurodevelopmental Effects and Mechanisms of Phthalates in Glial Cell Culture**
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- XXII. **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.
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- XXIII. **COVID-19 İLİŞKİLİ BAŞ AĞRILARININ KARAKTERİSTİK ÖZELLİKLERİNİN İNCELENMESİ-**
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- XXIV. **Sulfotransferase Inhibitors in the Pathophysiology of Migraine**
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- XXV. **TÜRKİYE'DE MİGREN YÜKÜ: KESİTSEL ANKET ÇALIŞMASI**
Ertaş M., Karadaş Ö., Saip S., Özge A., Baykan B., Belen H. B.
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- XXVI. **Cognitive impairment assessment in migraine patients**
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- XXVII. **Theory of Mind and Metacognitive Abilities in Migraine Patients**
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ERMİŞ O., ABBASOĞLU TOPA E. G., AKÇALI D. T., BELEN H. B.
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- XXIX. **Interstimulus Interval Change of Paired Somatosensory Stimulus on Cortical Evoked Potentials**
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- XXX. **Lessons from COVID-19 headache**
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Global Migraine and Pain Summit, 28 - 31 October 2020
- XXXI. **Impaired somatosensorial stimulus processing in migraine.**
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UMRAM USERS MEETING, Ankara, Turkey, 13 December 2019

- XXXII. **Vestibüler Migren KBB hekimi ne yapabilir?**
BELEN H. B.
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- XXXIII. **SUSTAINED DISRUPTION OF SENSORY PROCESSING IN CHRONIC MIGRAINE**
VURALLI D., BORAN H. E., CENGİZ B., COŞKUN Ö., BELEN H. B.
5th European Headache and Migraine Trust International Congress - EHMTIC, Glasgow, United Kingdom, 15 - 18 September 2016, vol.36, pp.66
- XXXIV. **Sensorimotor Integrity is Impaired During Migraine Attacks**
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- XXXV. **Nörobilim ve Nöroloji,**
BELEN H. B.
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- XXXVI. **Vestibüler migrene yaklaşım**
BELEN H. B.
Vertigo Sempozyumu, Kıbrıs, Turkey, 15 - 17 March 2019
- XXXVII. **Pediyatrik baş ağrılarına yaklaşım**
BELEN H. B.
1. Çocuk Baş ağrısı kış Okulu, Mersin, Turkey, 1 - 03 March 2019
- XXXVIII. **Baş ağrısında yeni sınıflamanın günlük pratiğe katkıları,**
BELEN H. B.
15. Baş ağrısı Kış Okulu, İstanbul, Turkey, 22 - 24 February 2019
- XXXIX. **Migrende CGRP antagonistleri**
BELEN H. B.
15. Baş ağrısı Kış Okulu, İstanbul, Turkey, 22 - 24 February 2019
- XL. **Researching the effects of witnessing trauma in rats**
Coskun A., Candansayar S., BELEN H. B., Donmez A., Gulbahar Ö., Coskun N.
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- XLI. **How I treat difficult cases**
BELEN H. B.
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- XLII. **CGRP receptors anatgonism in Migraine: Symposium Panel**
BELEN H. B.
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- XLIII. **Sensory processing disruption in migraine**
BELEN H. B.
3rd MENA HEADACHE MEETING, Kahire, Egypt, 17 - 20 October 2018
- XLIV. **'Cortical Spreading Depression in 2017'**
BELEN H. B.
European Headache Federation Meeting, ROMA, Italy, 1 - 03 December 2017, vol.18, pp.17
- XLV. **'Somatosensorial temporal discrimination threshold in migraine', European Headache Federation Meeting**
BELEN H. B.
European Headache Federation Meeting, ROMA, Italy, 1 - 03 December 2017, vol.18, pp.25
- XLVI. **Interventional management in refractory headache disorders Tertiary Center Based Experiences supported by application videos and a model for interactive practice of attenders**
ÖZGE A., UĞURLU D., KARADAŞ Ö., Yalın O. Ö., BELEN H. B.
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- XLVII. **Hücre Kültüründe Hipoksinin ve Hipotermik Önşartlamının Glial Demir Homeostazı ve Demir Taşıyıcı Proteinler Üzerine Etkileri**
ARAL L. A., PINAR L., BELEN H. B., ERGÜN M. A., ENGİN A. B., BÖRCEK A. Ö.
Ulusal Sinirbilim Kongresi, Turkey, 7 - 10 May 2017
- XLVIII. **'Management of Chronic Migraine'**
BELEN H. B.
'24th National Congress of Neurology', IRAN, TAHRAN, Iran, 2 - 05 May 2017
- XLIX. **'Diagnostic challenges in Primary Headaches',**
BELEN H. B.
24th National Congress of Neurology', IRAN, TAHRAN, Iran, 2 - 05 May 2017
- L. **'Clinical assessment and diagnostic algorithms in headache'**
BELEN H. B.
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BELEN H. B.
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- LII. **'Electrical stimulation will replace medications for the treatment of cluster headache'.**
BELEN H. B.
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- LIII. **'The thalamus and cortex are more critical to migraine pathophysiology than the trigeminal nerve'.**
BELEN H. B.
The 11th World Congress on Controversies in Neurology (CONy), Atina, Greece, 23 - 26 March 2017, vol.26, pp.19
- LIV. **MİGREN ATAĞINDA POTANSİYEL BİR BİYOBELİRTEÇ SOMATOSENSORYEL TEMPORAL DİSKRİMİNASYON**
VURALLI D., BORAN H. E., CENGİZ B., COŞKUN Ö., BELEN H. B.
52. Ulusal Nöroloji Kongresi, Antalya, Turkey, 25 November 2016
- LV. **Patofizyolojiden tedaviye Küme başağrısı**
BELEN H. B.
Ulusal Nöroloji Kongresi, Antalya, Turkey, 26 - 30 November 2016
- LVI. **Alterations in glial iron homeostasis in hypoxic conditions and effects of induced hypothermia on iron regulatory proteins in cell culture**
ARAL L. A., BELEN H. B.
Society for Neuroscience Annual Meeting, San Diago, United States Of America, 12 - 16 November 2016
- LVII. **SOMATOSENSORY TEMPORAL DISCRIMATION TEST DIFFERENTIATES MIGRAINE HEADACHE FROM TENSION TYPE HEADACHE**
VURALLI D., BORAN H. E., CENGİZ B., COŞKUN Ö., BELEN H. B.
5th European Headache and Migraine Trust International Congress - EHMTIC, Glasgow, United Kingdom, 15 - 18 September 2016, vol.36, pp.78
- LVIII. **SOMATOSENSORY TEMPORAL DISCRIMATION TEST DIFFERENTIATES MIGRAINE HEADACHE FROM TENSION TYPE HEADACHE**
VURALLI D., BORAN H. E., CENGİZ B., COŞKUN Ö., BELEN H. B.
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- LIX. **VISUAL AND POSTURAL MOTION EVOKED DIZZINESS SYMPTOMS DOMINATE IN VESTIBULAR MIGRAINE PATIENTS**
VURALLI D., Yıldırım F., Akçalı D., İLHAN M. N., GÖKSU N., BELEN H. B.
5th European Headache and Migraine Trust International Congress - EHMTIC, Glasgow, England, 15 September 2016
- LX. **SUSTAINED DISRUPTION OF SENSORY PROCESSING IN CHRONIC MIGRAINE**
Vuralli D., Boran H. E., Cengiz B., Coskun O., Bolay H. B.

5th International Congress of the European-Headache-and-Migraine-Trust (EHMTIC), Glasgow, United Kingdom, 15 - 18 September 2016, vol.36, pp.66

- LXI. **SOMATOSENSORY TEMPORAL DISCRIMATION TEST DIFFERENTIATES MIGRAINE HEADACHE FROM TENSION TYPE HEADACHE**
Vuralli D., Boran H. E., Cengiz B., Coskun O., Bolay H. B.
5th International Congress of the European-Headache-and-Migraine-Trust (EHMTIC), Glasgow, United Kingdom, 15 - 18 September 2016, vol.36, pp.78
- LXII. **VISUAL AND POSTURAL MOTION EVOKED DIZZINESS SYMPTOMS DOMINATE IN VESTIBULAR MIGRAINE PATIENTS**
Vuralli D., Yildirim F., Akcali D. T., Ilhan M., Goksu N., Bolay H. B.
5th International Congress of the European-Headache-and-Migraine-Trust (EHMTIC), Glasgow, United Kingdom, 15 - 18 September 2016, vol.36, pp.184
- LXIII. **Yeniilikçi Düşünce**
BELEN H. B.
TÜBİTAK ARDEP Üniversite Programı, Konya, Turkey, 27 May 2016
- LXIV. **Yaratıcı Düşüncenin Nörobiyolojisi**
BELEN H. B.
TÜBİTAK ARDEP Üniversite Programı, Bayburt, Turkey, 04 May 2016
- LXV. **Yenilikçi Düşüncenin Nörobiyolojisi**
BELEN H. B.
TÜBİTAK ARDEP Üniversite Programı, Erzincan, Turkey, 03 May 2016
- LXVI. **No preventive medication is required for the treatment of medication over use headache**
BELEN H. B.
CONTROVERSIES IN NEUROLOGY- INDIA 2016, Banglore, India, 1 - 02 April 2016
- LXVII. **Medication over use is the main causative factor in chronic migraine**
BELEN H. B.
The 10th World Congress on Controversies in Neurology (CONy, Lizbon, Portugal, 17 - 20 March 2016
- LXVIII. **Migraine starts in the cortex**
BELEN H. B.
The 10th World Congress on Controversies in Neurology (CONy), Lizbon, Portugal, 17 - 20 March 2016
- LXIX. **Fibromiyaljide intranasal sfenopalatin ganglion blokajı**
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BELEN H. B.
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- LXXI. **Various aspects of pathophysiology of migraine such as cortical spreading depression**
Bolay H. B.
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- LXXII. **Challenges in Pediatric Headaches**
BELEN H. B.
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- LXXIII. **Headaches associated with intracranial pressure changes 16 18 Eylül 2015 Tahran**
BELEN H. B.
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- LXXV. **Cortical spreading depression precedes each migraine attack**

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The 9th World Congress on Controversies In Neurology, Budapest, Hungary, 26 - 29 March 2015
- LXXVI. **Neurostimulation techniques in headache management**
BELEN H. B.
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- LXXVII. **Is sleep important in migraine**
BELEN H. B.
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- LXXVIII. **Gender Difference Chronic Migraine in Elderly**
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- LXXXII. **Hemodynamic Correlates of Mental Arithmetic Task In Migraine**
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- LXXXIII. **The effects of anti-angiogenetic drug thalidomide on experimental cerebral AVM ratmodels**
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- LXXXIV. **Novel experimental brain arteriovenous malformation (AVM) model in rats: the role of neo-angiogenesis in lesion growing**
Belen D., Erden E., Kuzu I., Simsek S., Bolay H. B.
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- LXXXV. **An experimental model for chronic headache**
Cizmeci P., Yalcinkaya D. E., Belen D., Babacan A., Bolay H. B.
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- LXXXVI. **Imagination and drawing of headache by twins**
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- LXXXVII. **Metoclopramide inhibits triigeminovascular activation: evidence for effective acute attack treatment in migraine**
AKÇALI D. T., Doganay-Aydin H., Bolay H. B.
7th International Congress on Headache in Children and Adolescents, İstanbul, Turkey, 17 - 21 May 2008, vol.28, pp.464
- LXXXVIII. **The importance of the cortex in migraine**
Bolay H. B.

7th International Congress on Headache in Children and Adolescents, İstanbul, Turkey, 17 - 21 May 2008, vol.28, pp.423-424

- LXXXIX. **ARX model approach to data acquired from healthy and migraine subjects**
Karahan E., AKIN A., BELEN H. B.
Biomedical Optics, BIOMED 2008, St. Petersburg, FL, United States Of America, 16 - 19 March 2008
- XC. **Temperament and character profiles of migraine patients**
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- XCI. **Saharan desert dust containing atmospheric conditions activate trigeminovascular system**
Akcali D. T., Bolay H. B., Caglar K., Doganay H., Erbas D., Goktas T., Saydam C.
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- XCIII. **Affective temperament characteristics of patients with migraine**
Akcali D. T., Bolay H. B., Candansayar S., Cizmeci P., Erdogan S.
13th Congress of the International-Headache-Society, Stockholm, Sweden, 28 June - 01 July 2007, vol.27, pp.589
- XCIV. **Subclinical dysfunction of cochlea and cochlear efferents in migraine: An otoacoustic emission study**
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59th Annual Meeting of the American-Academy-of-Neurology, Massachusetts, United States Of America, 28 April - 05 May 2007, vol.68
- XCV. **High frequency oscillations in brain hemodynamic response**
AKIN A., Bolay H. B.
Conference on Diffuse Optical Imaging of Tissue, Munich, Germany, 19 - 21 June 2007, vol.6629
- XCVI. **fNIRS Measurements in migraine**
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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
- XCVII. **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
- XCVIII. **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., Bermphohl 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
- XCIX. **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 Baş ağrısında Nöroinflamasyon ve Mikrobiyota, 2022 - Continues

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

Belen H. B., Bahçeliöđlu M., Gülbahar Ö., Genç Ş., Aral L. A., Gümüş Akay G., Tüfekçi U., Vuralı D., TUBİTAK Project, Kronik migren başađrısında tanısıl nöroinflamatuvar biyobelirteç paneli tanımlanması, 2023 - 2027

Bahçeliöđlu M., Belen H. B., Bukan N., Şahin K., Atalar K., Akarca Dizakar S. Ö., Alim E., Gök Dađıdır 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., Bahçeliöđlu M., Çiçek M., Gümüş-Akay G., Temizel A., Aydın Son Y., Bayram B., Halıcı U., Ulusoy İ., Kalaycıöđlu C., et al., CB Strateji ve Bütçe Başkanlıđı (Kalkınma Bakanlıđı) Projesi, NÖROM Neuroscience and Neurotechnology Center of Excellence, 2019 - 2024

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

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

Aral A., Engin A. B., Belen H. B., TUBİTAK Project, Hipoksinin ve Hipotermik İndüksiyonun 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 BAŞAĐRISININ DAVRANIŞA ETKİLERİNİN İNCELENMESİ, 2010 - 2013

BELEN H. B., Project Supported by Higher Education Institutions, CGRP RESEPTÖR ANTOGONİSTİNİN YAYILAN KORTİKAL DEPRESYONUN İNDÜKLEDİĐİ 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 Başađrısında 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 Derneđi, 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

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

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CEPHALALGIA, SCI Journal, August 2021

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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: 269
Citation (WoS): 8612
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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 Linguistic 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, Session Moderator, Berlin, Germany, 2021

The International Headache Congress IHS and EHF joint Congress , Invited Speaker, 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

Baş ağrısı Kış 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 Yıldırım 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 ÖZELLİKLERİNİN 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