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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 antikolları, 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

- 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)

- 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.

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- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **Medication overuse headache is associated with elevated lipopolysaccharide binding protein and pro-inflammatory molecules in the bloodstream.**
Dağidir H. G., Topa E. G., Vurallı D., Belen H. B.
The journal of headache and pain, vol.24, no.1, pp.150, 2023 (SCI-Expanded)
- XII. **Distinct Food Triggers for Migraine, Medication Overuse Headache and Irritable Bowel Syndrome**
Akgor M. C., Vurallı D., Sucu D. H., Gokce S., Tasdelen B., Gultekin F., Bolay H. B.
JOURNAL OF CLINICAL MEDICINE, vol.12, no.20, 2023 (SCI-Expanded)
- XIII. **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)
- XIV. **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)
- XV. **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)

- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **Migraine susceptibility is modulated by food triggers and analgesic overuse via sulfotransferase inhibition**
Vuralli D., Arslan B., Topa E. G., De Moraes A. L., Gulbahar Ö., Ayata C., Bolay H. B.
JOURNAL OF HEADACHE AND PAIN, vol.23, no.1, 2022 (SCI-Expanded)
- XXI. **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.
FRONTIERS IN NEUROLOGY, vol.13, 2022 (SCI-Expanded)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- 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., Gulbahar O., Ozge A., Baykan B.
JOURNAL OF HEADACHE AND PAIN, vol.22, no.SUPPL 2, 2021 (SCI-Expanded)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **Headache characteristics in COVID-19 pandemic-a survey study**
Uygun O., Ertaş 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)
- XXXIX. **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)
- XL. **COVID-19 is a Real Headache!**
Bolay H. B., Gül A., Baykal B.
HEADACHE, vol.60, pp.1415-1421, 2020 (SCI-Expanded)
- XLI. **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)
- XLII. **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)
- XLIII. **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)

- XLIV. **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)
- 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. **Peripheral Interventional Management in Headache Preface**
ÖZGE A., Bolay H. B., Uluduz D., Karadas O.
PERIPHERAL INTERVENTIONAL MANAGEMENT IN HEADACHE, 2019 (SCI-Expanded)
- XLVII. **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)
- XLVIII. **Cognitive dysfunction and migraine**
VURALLI D., Ayata C., Bolay H. B.
JOURNAL OF HEADACHE AND PAIN, vol.19, 2018 (SCI-Expanded)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **CSD evolution in 2017**
Bolay H. B.
JOURNAL OF HEADACHE AND PAIN, vol.18, 2017 (SCI-Expanded)
- LIII. **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)
- LIV. **The Effect of Hydrogen Sulphide on Experimental Cerebral Vasospasm**
Emmez H., BÖRCEK A. Ö., IŞIK GÖNÜL İ., BELEN H. B., Solaroglu L., Baykaner M. K.
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- LV. **Metoclopramide inhibits trigeminovascular activation: evidence for effective acute attack treatment in migraine**
Doganay Aydin H., VURALLI D., AKÇALI D. T., Bolay H. B.
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- LVI. **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.
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- LVII. **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)
- LVIII. **Chronic Migraine Is Associated With Sustained Elevation of Somatosensory Temporal Discrimination Thresholds**
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- HEADACHE, vol.56, no.9, pp.1439-1447, 2016 (SCI-Expanded)
- LIX. **Somatosensory temporal discrimination is prolonged during migraine attacks.**
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- LX. **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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- LXI. **Gender influences headache characteristics with increasing age in migraine patients**
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CEPHALALGIA, vol.35, no.9, pp.792-800, 2015 (SCI-Expanded)
- LXII. **Gender differences in older adults with chronic migraine in Turkey**
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GERIATRICS & GERONTOLOGY INTERNATIONAL, vol.15, no.5, pp.652-658, 2015 (SCI-Expanded)
- LXIII. **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.
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- LXIV. **Investigation of behavior of rats by nitroglicerine induced headache**
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- LXV. **MR tractography in short lasting unilateral neuralgiform headache attacks with conjunctival injection and tearing (SUNCT) patients: case reports**
Coskun Ö., UÇAR M., Yildirim F., Cetinkaya R., Bolay H. B.
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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., VURALI D., CEREN AKGÖR M. H., Project Supported by Higher Education Institutions, İlaç Aşırı Kullanım Başağrısında Nöroinflamasyon ve Mikrobiyota, 2022 - Continues

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

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

Bahçeliolu 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., Bahçeliolu M., Çiçek M., Gümüş-Akay G., Temizel A., Aydın Son Y., Bayram B., Halıcı U., Ulusoy İ., Kalaycıolu 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 İlişli Migren Patogenezinde Glial Hücrelerde Gelişen Demir Yanıtları, 2017 - 2018

Aral A., Engin A. B., Belen H. B., TÜBİTAK 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 BAŞAĒRISININ DAVRANIŞA ETKİLERİNİN İNCELENMESİ, 2010 - 2013

BELEN H. B., Project Supported by Higher Education Institutions, CGRP RESEPTÖR ANTOGONİSTİNİN YAYILAN KORTİKAL DEPRESYONUN İNDÜKLEDİĒİ 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 Başaęrısında 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 Derneęi, 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 (Kkctc), 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: 259
Citation (WoS): 8731
Citation (Scopus): 10678
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 , 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
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, Efn, 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 Nöroşürji Derneği, May 1990
Belen H. B., TÜBİTAK Liselerarası Fizik Yarışması, Tübitak, May 1981