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Education Information

Doctorate, Dokuz Eylul University, Sağlık Bilimleri Enstitüsü, Biyofizik (Dr), Turkey 2003 - 2006

Postgraduate, Dokuz Eylul University, Fizik Tedavi Ve Rehabilitasyon Yüksekokulu, Fizyoterapi Ve Rehabilitasyon Bölümü, Turkey 1999 - 2002

Undergraduate, Dokuz Eylul University, Fizik Tedavi Ve Rehabilitasyon Yüksekokulu, Fizik Tedavi Ve Rehabilitasyon Bölümü, Turkey 1995 - 1999

Dissertations

Doctorate, Yüz ifadesini beyin elektrofizyolojik olarak nasıl algılar: beyin dinamiği yöntemleri ile analiz, Dokuz Eylul University, Sağlık Bilimleri Enstitüsü, Biyofizik (Dr), 2006

Postgraduate, Endüstride Bel Ağrısı Risk Faktörlerinin İncelenmesi Üzerine bir AraştırmaDanışmanı, Dokuz Eylul University, Fizik Tedavi Ve Rehabilitasyon Yüksekokulu, Fizyoterapi Ve Rehabilitasyon Bölümü, 2002

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Life Sciences, Biophysics, Neurobiophysics, Natural Sciences

Academic Titles / Tasks

Professor, Istanbul Medipol University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2016 - Continues

Associate Professor, Istanbul Kultur University, 2010 - 2016

Academic and Administrative Experience

Istanbul Medipol University, 2016 - Continues

Courses

KOGNİTİF ELEKTROFİZYOLOJİ VE BEYİN OSİLASYONLARINA GİRİŞ, Postgraduate, 2019 - 2020

Advising Theses

- Bahar G., SAĞLIKLI BİREYLERDE İŞİTSEL VE GÖRSEL DUYGUSAL UYARANLARIN BEYİN SALINIMLARINA ETKİSİNİN EEG YÖNTEMİ İLE İNCELENMESİ, Postgraduate, E.DALMIZRAK(Student), 2023
- Bahar G., Yaşlanmada ve nörodejenerasyonda işlevsel bağlantısalıgım, emosyonel yüz ifadeleri uyararı ve EEG olaya-ilişkin koherans yöntemi ile incelenmesi, Postgraduate, S.HAKAN(Student), 2022
- Bahar G., Lütfü H., KOGNİSYONUN RİTİMLERİ: BELLEK PERFORMANSLARI ÜZERİNDE ÖLÇÜLEBİLİR ETKİ İLE NÖRAL OSİLASYONLARI MODÜLE ETMEK İÇİN TRANSKRANİYAL ALTERNATİF AKIM UYARIMININ KULLANILMASI, Doctorate, T.AKTÜRK(Student), 2022
- Bahar G., Ağrılı uyarar esnasında sağlıklı bireylerin elektroensefelogramda kognitif becerilerinin araştırılması, Postgraduate, M.MANGA(Student), 2022
- Bahar G., Akut uyku yoksunluğu sonrası çalışma belleği performansının eeg olaya ilişkin osilasyonlar ile incelenmesi, Postgraduate, H.YIRIKOĞULLARI(Student), 2022
- Bahar G., Lütfü H., Parkinson hastalığı demans, alzheimer hastalığı demans ve lewy cisimcikli demans'ta kognitif fonksiyonların olaya-ilişkin EEG beyin osilasyonları ile incelenmesi, Doctorate, E.YILDIRIM(Student), 2021
- Bahar G., Fiziksel engeli olan ve olmayan çocukların annelerinin yaşam kalitelerinin değerlendirilmesi, Postgraduate, U.AYBARÇ(Student), 2019
- Bahar G., Lütfü H., Erişkin tip DEHB'de sosyal kognisyon ve yürütücü işlevlerin ilişkisinin elektrofizyolojik yöntemle araştırılması, Postgraduate, E.RUŞEN(Student), 2018
- Bahar G., Lütfü H., Parkinsoniyen halüsinasyonların elektrofizyolojik özelliklerinin incelenmesi, Postgraduate, R.UYSAL(Student), 2017
- Bahar G., Sağlıklı bireylerde transkutanöz elektriksel sinir stimölasyonu' nun EGG üzerindeki etkisi, Postgraduate, E.YILDIRIM(Student), 2017
- Bahar G., Lütfü H., Parkinson hastalığında bilişsel bozulmanın seyrinde görsel algısal işlevler ve olaya ilişkin eeg koherans analizi ile ilişkisi, Postgraduate, F.ÇADIRCI(Student), 2016
- Lütfü H., Bahar G., Kognitif bozukluğu olan ve olmayan parkinson hastalarında alfa ve beta EEG osilasyonlarının incelenmesi, Postgraduate, N.MANTAR(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Resting state electroencephalographic alpha rhythms are sensitive to Alzheimer's disease mild cognitive impairment progression at a 6-month follow-up**
Babiloni C., Jakhar D., Tucci F., Del Percio C., Lopez S., Soricelli A., Salvatore M., Ferri R., Catania V., Massa F., et al.
Neurobiology of Aging, vol.137, pp.19-37, 2024 (SCI-Expanded)
- II. **Poor reactivity of posterior electroencephalographic alpha rhythms during the eyes open condition in patients with dementia due to Parkinson's disease**
Babiloni C., Noce G., Tucci F., Jakhar D., Ferri R., Panerai S., Catania V., Soricelli A., Salvatore M., Nobili F., et al.
Neurobiology of Aging, vol.135, pp.1-14, 2024 (SCI-Expanded)
- III. **Electrophysiological and Cognitive Changes in Hard Coal Miners Associated with Working Underground**
Çelik S., YILDIRIM E., GÜNTEKİN B.
Clinical EEG and Neuroscience, 2024 (SCI-Expanded)
- IV. **rTMS reduces delta and increases theta oscillations in Alzheimer's disease: A visual-evoked and event-related potentials study**
Velioglu H. A., Dudukcu E. Z., HANOĞLU L., GÜNTEKİN B., AKTÜRK T., Yulug B.
CNS Neuroscience and Therapeutics, vol.30, no.1, 2024 (SCI-Expanded)
- V. **Coherence in event-related EEG oscillations in patients with Alzheimer's disease dementia and**

amnesic mild cognitive impairment

Fide E., Yerlikaya D., GÜNTEKİN B., Babiloni C., Yener G. G.

Cognitive Neurodynamics, vol.17, no.6, pp.1621-1635, 2023 (SCI-Expanded)

- VI. **Reconstructing brain functional networks through identifiability and Deep Learning**
Zanin M., Aktürk T., Yildirim E., Yerlikaya D., Yener G., Güntekin B.
NETWORK NEUROSCIENCE, pp.1-31, 2023 (SCI-Expanded)
- VII. **Event-related delta and theta responses may reflect the valence discrimination in the emotional oddball task**
Bölükbaş B., AKTÜRK T., Ardalı H., Dünder Y., Güngör C., Kahveci Ş., GÜNTEKİN B.
Cognitive Processing, vol.24, no.4, pp.595-608, 2023 (SSCI)
- VIII. **Relationship between default mode network and resting-state electroencephalographic alpha rhythms in cognitively unimpaired seniors and patients with dementia due to alzheimer's disease**
Babiloni C., Lopez S., Noce G., Ferri R., Panerai S., Catania V., Soricelli A., Salvatore M., Nobili F., Arnaldi D., et al.
Cerebral Cortex, vol.33, no.20, pp.10514-10527, 2023 (SCI-Expanded)
- IX. **EEG, ERPs, and EROs in patients with cognitive deficits due to progressive neurodegenerative diseases: The dark side of the precision medicine**
Babiloni C., GÜNTEKİN B.
International Journal of Psychophysiology, vol.190, pp.56-59, 2023 (SCI-Expanded)
- X. **Alterations of resting-state Gamma frequency characteristics in aging and Alzheimer's disease**
GÜNTEKİN B., Erdal F., Bölükbaş B., HANOĞLU L., Yener G., Duygun R.
Cognitive Neurodynamics, vol.17, no.4, pp.829-844, 2023 (SCI-Expanded)
- XI. **Abnormal Cross Frequency Coupling of Brain Electroencephalographic Oscillations Related to Visual Oddball Task in Parkinson's Disease with Mild Cognitive Impairment**
BAYRAKTAROĞLU Z., AKTÜRK T., Yener G., de Graaf T. A., HANOĞLU L., YILDIRIM E., Hünerli Gündüz D., Kıyı İ., Sack A. T., Babiloni C., et al.
Clinical EEG and Neuroscience, vol.54, no.4, pp.379-390, 2023 (SCI-Expanded)
- XII. **Special Issue: Update on Neural Oscillations in Neuropsychiatric Disorders**
GÜNTEKİN B., O'Donnell B. F.
Clinical EEG and Neuroscience, vol.54, no.4, pp.347-348, 2023 (SCI-Expanded)
- XIII. **Classification of Parkinson's disease with dementia using phase locking factor of event-related oscillations to visual and auditory stimuli**
Tülay E. E., YILDIRIM E., AKTÜRK T., GÜNTEKİN B.
Journal of neural engineering, vol.20, no.2, 2023 (SCI-Expanded)
- XIV. **Patients with Alzheimer's disease dementia show partially preserved parietal 'hubs' modeled from resting-state alpha electroencephalographic rhythms**
Lopez S., Del Percio C., Lizio R., Noce G., Padovani A., Nobili F., Arnaldi D., Famà F., Moretti D. V., Cagnin A., et al.
Frontiers in Aging Neuroscience, vol.15, 2023 (SCI-Expanded)
- XV. **The effects of cognitive, physical, and somatosensory rehabilitation after right temporo-parietal tumor resection on cognitive, motor, somatosensory, and electrophysiological parameters: A case report**
SARICAOĞLU M., HANOĞLU L., GÜNTEKİN B., ÖZKARA Ç.
Physiotherapy Theory and Practice, vol.39, no.10, pp.2241-2250, 2023 (SCI-Expanded)
- XVI. **Reduced power and phase-locking values were accompanied by thalamus, putamen, and hippocampus atrophy in Parkinson's disease with mild cognitive impairment: an event-related oscillation study**
Hünerli-Gündüz D., Özbek İşbitiren Y., Uzunlar H., Çavuşoğlu B., Çolakoglu B. D., ADA E., GÜNTEKİN B., Yener G. G.
Neurobiology of Aging, vol.121, pp.88-106, 2023 (SCI-Expanded)
- XVII. **Immature event-related alpha dynamics in children compared with the young adults during inhibition shown by day-night stroop task**
GÜNTEKİN B., Alptekin S., YILDIRIM E., AKTÜRK T., Uzunlar H., Çalışoğlu P., Ada F., ATAY E., CERAN Ö.
Frontiers in Human Neuroscience, vol.17, 2023 (SCI-Expanded)

- XVIII. **What a Single Electroencephalographic (EEG) Channel Can Tell us About Alzheimer's Disease Patients With Mild Cognitive Impairment**
Del Percio C., Lopez S., Noce G., Lizio R., Tucci F., Soricelli A., Ferri R., Nobili F., Arnaldi D., Famà F., et al.
Clinical EEG and Neuroscience, vol.54, no.1, pp.21-35, 2023 (SCI-Expanded)
- XIX. **Telling functional networks apart using ranked network features stability**
Zanin M., GÜNTEKİN B., AKTÜRK T., YILDIRIM E., Yener G., Kiyi I., Hünerli-Gündüz D., Sequeira H., Papo D.
Scientific Reports, vol.12, no.1, 2022 (SCI-Expanded)
- XX. **What a single electroencephalographic (EEG) channel can tell us about patients with dementia due to Alzheimer's disease**
Del Percio C., Noce G., Lopez S., Tucci F., Carlin G., Lizio R., Musat A. M., Soricelli A., Salvatore M., Ferri R., et al.
International Journal of Psychophysiology, vol.182, pp.169-181, 2022 (SCI-Expanded)
- XXI. **Enhancing memory capacity by experimentally slowing theta frequency oscillations using combined EEG-tACS**
AKTÜRK T., de Graaf T. A., GÜNTEKİN B., HANOĞLU L., Sack A. T.
Scientific Reports, vol.12, no.1, 2022 (SCI-Expanded)
- XXII. **Oscillatory delta and theta frequencies differentially support multiple items encoding to optimize memory performance during the digit span task**
Aktürk T., de Graaf T. A., ERDAL F., Sack A. T., GÜNTEKİN B.
NeuroImage, vol.263, 2022 (SCI-Expanded)
- XXIII. **Reactivity of posterior cortical electroencephalographic alpha rhythms during eyes opening in cognitively intact older adults and patients with dementia due to Alzheimer's and Lewy body diseases**
Babiloni C., Lorenzo I., Lizio R., Lopez S., Tucci F., Ferri R., Soricelli A., Nobili F., Arnaldi D., Famà F., et al.
Neurobiology of Aging, vol.115, pp.88-108, 2022 (SCI-Expanded)
- XXIV. **Treatment effects on event-related EEG potentials and oscillations in Alzheimer's disease**
Yener G., Hünerli-Gündüz D., YILDIRIM E., AKTÜRK T., Başar-Eroğlu C., Bonanni L., Del Percio C., Farina F., Ferri R., GÜNTEKİN B., et al.
International Journal of Psychophysiology, vol.177, pp.179-201, 2022 (SCI-Expanded)
- XXV. **Resting State Alpha Electroencephalographic Rhythms Are Affected by Sex in Cognitively Unimpaired Seniors and Patients with Alzheimer's Disease and Amnesic Mild Cognitive Impairment: A Retrospective and Exploratory Study**
Babiloni C., Noce G., Ferri R., Lizio R., Lopez S., Lorenzo I., Tucci F., Soricelli A., Zurrón M., Díaz F., et al.
Cerebral Cortex, vol.32, no.10, pp.2197-2215, 2022 (SCI-Expanded)
- XXVI. **Are there consistent abnormalities in event-related EEG oscillations in patients with Alzheimer's disease compared to other diseases belonging to dementia?**
GÜNTEKİN B., AKTÜRK T., Arakaki X., Bonanni L., Del Percio C., Edelmayer R., Farina F., Ferri R., HANOĞLU L., Kumar S., et al.
Psychophysiology, vol.59, no.5, 2022 (SCI-Expanded)
- XXVII. **A Fast Transform for Brain Connectivity Difference Evaluation**
Zanin M., Ivanoska I., GÜNTEKİN B., Yener G., Loncar-Turukalo T., Jakovljevic N., Sveljo O., Papo D.
Neuroinformatics, vol.20, no.2, pp.285-299, 2022 (SCI-Expanded)
- XXVIII. **DLPF Targeted Repetitive Transcranial Magnetic Stimulation Improves Brain Glucose Metabolism Along with the Clinical and Electrophysiological Parameters in CBD Patients**
Toprak G., HANOĞLU L., ÇAKIR T., GÜNTEKİN B., Velioglu H. A., Yulug B.
Endocrine, Metabolic and Immune Disorders - Drug Targets, vol.22, no.4, pp.415-424, 2022 (SCI-Expanded)
- XXIX. **Event-related EEG oscillatory responses elicited by dynamic facial expression**
AKTÜRK T., de Graaf T. A., Abra Y., ŞAHOĞLU GÖKTAŞ S., Özkan D., Kula A., GÜNTEKİN B.
BioMedical Engineering Online, vol.20, no.1, 2021 (SCI-Expanded)
- XXX. **Classification of Patients with Alzheimer's Disease and Dementia with Lewy Bodies using Resting EEG Selected Features at Sensor and Source Levels: A Proof-of-Concept Study**
San-Martin R., Fraga F. J., Del Percio C., Lizio R., Noce G., Nobili F., Arnaldi D., D'antonio F., De Lena C., GÜNTEKİN B.,

et al.

Current Alzheimer Research, vol.18, no.12, pp.956-969, 2021 (SCI-Expanded)

- XXXI. **Measures of resting state EEG rhythms for clinical trials in Alzheimer's disease: Recommendations of an expert panel**
Babiloni C., Arakaki X., Azami H., Bennys K., Blinowska K., Bonanni L., Bujan A., Carrillo M. C., Cichocki A., de Frutos-Lucas J., et al.
Alzheimer's and Dementia, vol.17, no.9, pp.1528-1553, 2021 (SCI-Expanded)
- XXXII. **Distinct brain oscillatory responses for the perception and identification of one's own body from other's body**
Çelik S., Doğan R. B., Parlattan C. S., GÜNTEKİN B.
Cognitive Neurodynamics, vol.15, no.4, pp.609-620, 2021 (SCI-Expanded)
- XXXIII. **EEG measures for clinical research in major vascular cognitive impairment: recommendations by an expert panel**
Babiloni C., Arakaki X., Bonanni L., Bujan A., Carrillo M. C., Del Percio C., Edelmayer R. M., Egan G., Elahh F. M., Evans A., et al.
Neurobiology of Aging, vol.103, pp.78-97, 2021 (SCI-Expanded)
- XXXIV. **Abnormalities of Cortical Sources of Resting State Alpha Electroencephalographic Rhythms are Related to Education Attainment in Cognitively Unimpaired Seniors and Patients with Alzheimer's Disease and Amnesic Mild Cognitive Impairment**
Babiloni C., Ferri R., Noce G., Lizio R., Lopez S., Lorenzo I., Panzavolta A., Soricelli A., Nobili F., Arnaldi D., et al.
Cerebral Cortex, vol.31, no.4, pp.2220-2237, 2021 (SCI-Expanded)
- XXXV. **Resting state alpha electroencephalographic rhythms are differently related to aging in cognitively unimpaired seniors and patients with alzheimer's disease and amnesic mild cognitive impairment**
Babiloni C., Ferri R., Noce G., Lizio R., Lopez S., Lorenzo I., Tucci F., Soricelli A., Nobili F., Arnaldi D., et al.
Journal of Alzheimer's Disease, vol.82, no.3, pp.1085-1114, 2021 (SCI-Expanded)
- XXXVI. **Special Report on the Impact of the COVID-19 Pandemic on Clinical EEG and Research and Consensus Recommendations for the Safe Use of EEG**
Campanella S., Arikan K., Babiloni C., Balconi M., Bertollo M., Betti V., Bianchi L., Brunovsky M., Buttinelli C., Comani S., et al.
Clinical EEG and Neuroscience, vol.52, no.1, pp.3-28, 2021 (SCI-Expanded)
- XXXVII. **Resting-state electroencephalographic delta rhythms may reflect global cortical arousal in healthy old seniors and patients with Alzheimer's disease dementia**
Babiloni C., Ferri R., Noce G., Lizio R., Lopez S., Soricelli A., Nobili F., Arnaldi D., Famà F., Orzi F., et al.
International Journal of Psychophysiology, vol.158, pp.259-270, 2020 (SCI-Expanded)
- XXXVIII. **Theta and alpha oscillatory responses differentiate between six-to seven-year-old children and adults during successful visual and auditory memory encoding**
Güntekin B., Uzunlar H., Çalışoğlu P., Eroğlu Ada F., Yıldırım E., Aktürk T., Atay E., Ceran Ö.
Brain Research, vol.1747, 2020 (SCI-Expanded)
- XXXIX. **Abnormalities of resting-state EEG in patients with prodromal and overt dementia with Lewy bodies: Relation to clinical symptoms**
Pascarelli M. T., Del Percio C., De Pandis M. F., Ferri R., Lizio R., Noce G., Lopez S., Rizzo M., Soricelli A., Nobili F., et al.
Clinical Neurophysiology, vol.131, no.11, pp.2716-2731, 2020 (SCI-Expanded)
- XL. **Correlation between alpha activity and neuropsychometric tests in Parkinson's disease**
Yılmaz N. H., Çalışoğlu P., GÜNTEKİN B., HANOĞLU L.
Neuroscience Letters, vol.738, 2020 (SCI-Expanded)
- XLI. **Evoked and induced EEG oscillations to visual targets reveal a differential pattern of change along the spectrum of cognitive decline in Alzheimer's Disease**
Tülay E. E., GÜNTEKİN B., Yener G., BAYRAM A., Başar-Eroğlu C., DEMİRALP T.
International Journal of Psychophysiology, vol.155, pp.41-48, 2020 (SCI-Expanded)
- XLII. **Abnormalities in auditory and visual cognitive processes are differentiated with theta responses in patients with Parkinson's disease with and without dementia**

GÜNTEKİN B., AKTÜRK T., YILDIRIM E., Yılmaz N. H., HANOĞLU L., Yener G.

International Journal of Psychophysiology, vol.153, pp.65-79, 2020 (SCI-Expanded)

- XLIII. **Abnormal cortical neural synchronization mechanisms in quiet wakefulness are related to motor deficits, cognitive symptoms, and visual hallucinations in Parkinson's disease patients: an electroencephalographic study**
Babiloni C., Pascarelli M. T., Lizio R., Noce G., Lopez S., Rizzo M., Ferri R., Soricelli A., Nobili F., Arnaldi D., et al.
Neurobiology of Aging, vol.91, pp.88-111, 2020 (SCI-Expanded)
- XLIV. **Early diagnosis of Alzheimer's disease: the role of biomarkers including advanced EEG signal analysis. Report from the IFCN-sponsored panel of experts**
Rossini P., Di Iorio R., Vecchio F., Anfossi M., Babiloni C., Bozzali M., Bruni A., Cappa S., Escudero J., Fraga F., et al.
Clinical Neurophysiology, vol.131, no.6, pp.1287-1310, 2020 (SCI-Expanded)
- XLV. **Time Irreversibility of Resting-State Activity in the Healthy Brain and Pathology**
Zanin M., GÜNTEKİN B., AKTÜRK T., HANOĞLU L., Papo D.
Frontiers in Physiology, vol.10, 2020 (SCI-Expanded)
- XLVI. **EEG alpha activity increased in response to transcutaneous electrical nervous stimulation in young healthy subjects but not in the healthy elderly**
YILDIRIM E., GÜNTEKİN B., HANOĞLU L., Algu C.
PeerJ, vol.2020, no.1, 2020 (SCI-Expanded)
- XLVII. **Age related differences in the recognition of facial expression: Evidence from EEG event-related brain oscillations**
AKTÜRK T., İsoğlu-Alkaç Ü., HANOĞLU L., GÜNTEKİN B.
International Journal of Psychophysiology, vol.147, pp.244-256, 2020 (SCI-Expanded)
- XLVIII. **What electrophysiology tells us about Alzheimer's disease: a window into the synchronization and connectivity of brain neurons**
Babiloni C., Blinowska K., Bonanni L., Cichocki A., De Haan W., Del Percio C., Dubois B., Escudero J., Fernández A., Frisoni G., et al.
Neurobiology of Aging, vol.85, pp.58-73, 2020 (SCI-Expanded)
- XLIX. **The therapeutic role of repetitive transcranial magnetic stimulation (rTMS) in parkinsonian visual hallucinations: Electrophysiological correlates**
Hanoğlu T., HANOĞLU L., GÜNTEKİN B., AKTÜRK T., Yulug B.
Journal of Clinical Neuroscience, vol.69, pp.281-284, 2019 (SCI-Expanded)
- L. **Impairment in recognition of emotional facial expressions in Alzheimer's disease is represented by EEG theta and alpha responses**
GÜNTEKİN B., HANOĞLU L., AKTÜRK T., Fide E., EMEK SAVAŞ D. D., Ruşen E., YILDIRIM E., Yener G. G.
Psychophysiology, vol.56, no.11, 2019 (SCI-Expanded)
- LI. **Electrophysiological evidence of altered facial expressions recognition in Alzheimer's disease: A comprehensive ERP study**
Fide E., EMEK SAVAŞ D. D., AKTÜRK T., GÜNTEKİN B., HANOĞLU L., Yener G. G.
Clinical Neurophysiology, vol.130, no.10, pp.1813-1824, 2019 (SCI-Expanded)
- LII. **The difference of mild cognitive impairment in Parkinson's disease from amnesic mild cognitive impairment: Deeper power decrement and no phase-locking in visual event-related responses**
Yener G. G., Fide E., Özbek Y., EMEK SAVAŞ D. D., AKTÜRK T., ÇAKMUR R., GÜNTEKİN B.
International Journal of Psychophysiology, vol.139, pp.48-58, 2019 (SCI-Expanded)
- LIII. **Abnormalities of functional cortical source connectivity of resting-state electroencephalographic alpha rhythms are similar in patients with mild cognitive impairment due to Alzheimer's and Lewy body diseases**
Babiloni C., Del Percio C., Pascarelli M. T., Lizio R., Noce G., Lopez S., Rizzo M., Ferri R., Soricelli A., Nobili F., et al.
Neurobiology of Aging, vol.77, pp.112-127, 2019 (SCI-Expanded)
- LIV. **Levodopa may affect cortical excitability in Parkinson's disease patients with cognitive deficits as revealed by reduced activity of cortical sources of resting state electroencephalographic rhythms**
Babiloni C., Del Percio C., Lizio R., Noce G., Lopez S., Soricelli A., Ferri R., Pascarelli M. T., Catania V., Nobili F., et al.

Neurobiology of Aging, vol.73, pp.9-20, 2019 (SCI-Expanded)

- LV. **Abnormalities of resting-state functional cortical connectivity in patients with dementia due to Alzheimer's and Lewy body diseases: an EEG study**
Babiloni C., Del Percio C., Lizio R., Noce G., Lopez S., Soricelli A., Ferri R., Nobili F., Arnaldi D., Famà F., et al.
Neurobiology of Aging, vol.65, pp.18-40, 2018 (SCI-Expanded)
- LVI. **Functional cortical source connectivity of resting state electroencephalographic alpha rhythms shows similar abnormalities in patients with mild cognitive impairment due to Alzheimer's and Parkinson's diseases**
Babiloni C., Del Percio C., Lizio R., Noce G., Lopez S., Soricelli A., Ferri R., Pascarelli M. T., Catania V., Nobili F., et al.
Clinical Neurophysiology, vol.129, no.4, pp.766-782, 2018 (SCI-Expanded)
- LVII. **Cognitive impairment in parkinson's disease is reflected with gradual decrease of EEG delta responses during auditory discrimination**
GÜNTEKİN B., HANOĞLU L., Güner D., YILMAZ N. C., Çadirci F., MANTAR N., AKTÜRK T., EMEK SAVAŞ D. D., özer F., Yener G., et al.
Frontiers in Psychology, vol.9, no.FEB, 2018 (SSCI)
- LVIII. **Abnormalities of Resting State Cortical EEG Rhythms in Subjects with Mild Cognitive Impairment Due to Alzheimer's and Lewy Body Diseases**
Babiloni C., Del Percio C., Lizio R., Noce G., Lopez S., Soricelli A., Ferri R., Pascarelli M. T., Catania V., Nobili F., et al.
Journal of Alzheimer's Disease, vol.62, no.1, pp.247-268, 2018 (SCI-Expanded)
- LIX. **Decrease of Delta Oscillatory Responses in Cognitively Normal Parkinson's Disease**
EMEK SAVAŞ D. D., Özmüş G., GÜNTEKİN B., DÖNMEZ ÇOLAKOĞLU B., ÇAKMUR R., Başar E., Yener G. G.
Clinical EEG and Neuroscience, vol.48, no.5, pp.355-364, 2017 (SCI-Expanded)
- LX. **Affective pictures processing is reflected by an increased long-distance EEG connectivity**
GÜNTEKİN B., Femir B., Gölbaşı B. T., Tülay E., Başar E.
Cognitive Neurodynamics, vol.11, no.4, pp.355-367, 2017 (SCI-Expanded)
- LXI. **Abnormalities of cortical neural synchronization mechanisms in patients with dementia due to Alzheimer's and Lewy body diseases: an EEG study**
Babiloni C., Del Percio C., Lizio R., Noce G., Cordone S., Lopez S., Soricelli A., Ferri R., Pascarelli M. T., Nobili F., et al.
Neurobiology of Aging, vol.55, pp.143-158, 2017 (SCI-Expanded)
- LXII. **Increased long distance event-related gamma band connectivity in Alzheimer's disease**
Başar E., Femir B., EMEK SAVAŞ D. D., GÜNTEKİN B., Yener G. G.
NeuroImage: Clinical, vol.14, pp.580-590, 2017 (SCI-Expanded)
- LXIII. **The modulation of delta responses in the interaction of brightness and emotion**
Kurt P., Eroğlu K., Bayram Kuzgun T., GÜNTEKİN B.
International Journal of Psychophysiology, vol.112, pp.1-8, 2017 (SCI-Expanded)
- LXIV. **Abnormalities of Cortical Neural Synchronization Mechanisms in Subjects with Mild Cognitive Impairment due to Alzheimer's and Parkinson's Diseases: An EEG Study**
Babiloni C., Del Percio C., Lizio R., Noce G., Cordone S., Lopez S., Soricelli A., Ferri R., Pascarelli M. T., Nobili F., et al.
Journal of Alzheimer's Disease, vol.59, no.1, pp.339-358, 2017 (SCI-Expanded)
- LXV. **Increased Beta Frequency (15-30 Hz) Oscillatory Responses in Euthymic Bipolar Patients under Lithium Monotherapy**
Tan D., Özerdem A., GÜNTEKİN B., Atagün M. I., Tülay E., Karadağ F., Başar E.
Clinical EEG and Neuroscience, vol.47, no.2, pp.87-95, 2016 (SCI-Expanded)
- LXVI. **Decrease of delta oscillatory responses is associated with increased age in healthy elderly**
EMEK SAVAŞ D. D., GÜNTEKİN B., Yener G. G., Başar E.
International Journal of Psychophysiology, vol.103, pp.103-109, 2016 (SCI-Expanded)
- LXVII. **Delay of cognitive gamma responses in Alzheimer's disease**
Başar E., EMEK SAVAŞ D. D., GÜNTEKİN B., Yener G. G.
NeuroImage: Clinical, vol.11, pp.106-115, 2016 (SCI-Expanded)
- LXVIII. **Frontal delta event-related oscillations relate to frontal volume in mild cognitive impairment and healthy controls**

- Yener G. G., EMEK SAVAŞ D. D., Lizio R., Çavuşoğlu B., Carducci F., ADA E., GÜNTEKİN B., Babiloni C. C., Başar E.
International Journal of Psychophysiology, vol.103, pp.110-117, 2016 (SCI-Expanded)
- LXIX. **Review of evoked and event-related delta responses in the human brain**
GÜNTEKİN B., Başar E.
International Journal of Psychophysiology, vol.103, pp.43-52, 2016 (SCI-Expanded)
- LXX. **Mindful brain and EEG-neurophysiology**
Başar E., GÜNTEKİN B., Yener G., Başar-Eroğlu C.
International Journal of Psychophysiology, vol.103, pp.1-2, 2016 (SCI-Expanded)
- LXXI. **What does the broken brain say to the neuroscientist? Oscillations and connectivity in schizophrenia, Alzheimer's disease, and bipolar disorder**
Başar E., Schmiedt-Fehr C., Mathes B., Femir B., EMEK SAVAŞ D. D., Tülay E., Tan D., Düzgün A., GÜNTEKİN B., Özerdem A., et al.
International Journal of Psychophysiology, vol.103, pp.135-148, 2016 (SCI-Expanded)
- LXXII. **Multiple gamma oscillations in the brain: A new strategy to differentiate functional correlates and P300 dynamics**
Başar E., Tülay E., GÜNTEKİN B.
International Journal of Psychophysiology, vol.95, no.3, pp.406-420, 2015 (SCI-Expanded)
- LXXIII. **Lithium excessively enhances event related beta oscillations in patients with bipolar disorder**
Ilhan Atagün M., GÜNTEKİN B., Tan D., Elif Tülay E., Başar E.
Journal of Affective Disorders, vol.170, pp.59-65, 2015 (SCI-Expanded)
- LXXIV. **The visual cognitive network, but not the visual sensory network, is affected in amnesic mild cognitive impairment: A study of brain oscillatory responses**
Yener G. G., EMEK SAVAŞ D. D., GÜNTEKİN B., Başar E.
Brain Research, vol.1585, pp.141-149, 2014 (SCI-Expanded)
- LXXV. **Decrease of event-related delta oscillations in euthymic patients with bipolar disorder**
Atagün M. I., GÜNTEKİN B., Maşali B., Tülay E., Başar E.
Psychiatry Research - Neuroimaging, vol.223, no.1, pp.43-48, 2014 (SCI-Expanded)
- LXXVI. **A review of brain oscillations in perception of faces and emotional pictures**
GÜNTEKİN B., Başar E.
Neuropsychologia, vol.58, no.1, pp.33-51, 2014 (SCI-Expanded)
- LXXVII. **Event related beta and gamma oscillatory responses during perception of affective pictures**
GÜNTEKİN B., Tülay E.
Brain Research, vol.1577, pp.45-56, 2014 (SCI-Expanded)
- LXXVIII. **A proposal to extend brodmann's areas concept to a new model**
Başar E., Düzgün A., GÜNTEKİN B.
NeuroQuantology, vol.12, no.2, pp.201-209, 2014 (SCI-Expanded)
- LXXIX. **Patients with mild cognitive impairment display reduced auditory event-related delta oscillatory responses**
Kurt P., Emek-SavaG D. D., Batum K., TURP GÖLBAŞI B., GÜNTEKİN B., Karsidal S., Yener G. G.
Behavioural Neurology, vol.2014, 2014 (SCI-Expanded)
- LXXX. **Decrease of theta response in euthymic bipolar patients during an oddball paradigm**
Atagün M., GÜNTEKİN B., Özerdem A., Tülay E., Başar E.
Cognitive Neurodynamics, vol.7, no.3, pp.213-223, 2013 (SCI-Expanded)
- LXXXI. **Reduced visual event-related delta oscillatory responses in amnesic mild cognitive impairment**
Yener G. G., Kurt P., EMEK SAVAŞ D. D., GÜNTEKİN B., Başar E.
Journal of Alzheimer's Disease, vol.37, no.4, pp.759-767, 2013 (SCI-Expanded)
- LXXXII. **A short review of alpha activity in cognitive processes and in cognitive impairment**
Başar E., GÜNTEKİN B.
International Journal of Psychophysiology, vol.86, no.1, pp.25-38, 2012 (SCI-Expanded)
- LXXXIII. **Brain's alpha activity is highly reduced in euthymic bipolar disorder patients**
Basar E., GÜNTEKİN B., Atagün I., Turp Gölbas B., Tülay E., Özerdem A.

- Cognitive Neurodynamics, vol.6, no.1, pp.11-20, 2012 (SCI-Expanded)
- LXXXIV. **Auditory delta event-related oscillatory responses are decreased in Alzheimer's disease**
Yener G., GÜNTEKİN B., Örken D. N., Tülay E., Forta H., Başar E.
Behavioural Neurology, vol.25, no.1, pp.3-11, 2012 (SCI-Expanded)
- LXXXV. **Reduced long distance gamma (28-48 Hz) coherence in euthymic patients with bipolar disorder**
Özerdem A., GÜNTEKİN B., Atagün I., TURP GÖLBAŞI B., Başar E.
Journal of Affective Disorders, vol.132, no.3, pp.325-332, 2011 (SCI-Expanded)
- LXXXVI. **Evoked and event related coherence of Alzheimer patients manifest differentiation of sensory-cognitive networks**
Başar E., GÜNTEKİN B., Tülay E., Yener G. G.
Brain Research, vol.1357, pp.79-90, 2010 (SCI-Expanded)
- LXXXVII. **Event-related beta oscillations are affected by emotional eliciting stimuli**
GÜNTEKİN B., Başar E.
Neuroscience Letters, vol.483, no.3, pp.173-178, 2010 (SCI-Expanded)
- LXXXVIII. **A new interpretation of P300 responses upon analysis of coherences**
GÜNTEKİN B., Başar E.
Cognitive Neurodynamics, vol.4, no.2, pp.107-118, 2010 (SCI-Expanded)
- LXXXIX. **Disturbance in long distance gamma coherence in bipolar disorder**
Özerdem A., GÜNTEKİN B., Saatçi E., Tunca Z., Başar E.
Progress in Neuro-Psychopharmacology and Biological Psychiatry, vol.34, no.6, pp.861-865, 2010 (SCI-Expanded)
- XC. **A comparative analysis of sensory visual evoked oscillations with visual cognitive event related oscillations in Alzheimer's disease**
Yener G. G., GÜNTEKİN B., Tülay E., Başar E.
Neuroscience Letters, vol.462, no.3, pp.193-197, 2009 (SCI-Expanded)
- XCI. **Facial affect manifested by multiple oscillations**
GÜNTEKİN B., Başar E.
International Journal of Psychophysiology, vol.71, no.1, pp.31-36, 2009 (SCI-Expanded)
- XCII. **Darwin's evolution theory, brain oscillations, and complex brain function in a new "Cartesian view"**
Başar E., GÜNTEKİN B.
International Journal of Psychophysiology, vol.71, no.1, pp.2-8, 2009 (SCI-Expanded)
- XCIII. **Decrease of evoked delta, theta and alpha coherences in Alzheimer patients during a visual oddball paradigm**
GÜNTEKİN B., Saatçi E., Yener G.
Brain Research, vol.1235, pp.109-116, 2008 (SCI-Expanded)
- XCIV. **Brain oscillatory responses in patients with bipolar disorder manic episode before and after valproate treatment**
Özerdem A., GÜNTEKİN B., Tunca Z., Başar E.
Brain Research, vol.1235, pp.98-108, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Beta oscillatory responses in healthy subjects and subjects with mild cognitive impairment**
GÜNTEKİN B., EMEK SAVAŞ D. D., Kurt P., Yener G. G., Başar E.
NeuroImage: Clinical, vol.3, pp.39-46, 2013 (Scopus)
- II. **Bergson's intuition and memory in view of NeuroQuantology**
Başar E., GÜNTEKİN B.
NeuroQuantology, vol.7, no.4, pp.602-608, 2009 (Scopus)
- III. **An essay on Darwin's theory and Bergson's creative evolution in the era of NeuroQuantology**
Başar E., GÜNTEKİN B.
NeuroQuantology, vol.7, no.4, pp.609-622, 2009 (Scopus)

Books & Book Chapters

- I. **Elektroensefalografi ve beyin osilasyonları: Farklı fonksiyonel ve kognitif durumların analizi**
GÜNTEKİN B., EMEK SAVAŞ D. D.
in: Fonksiyonun Cerrahi Anatomisi, Hüseyin Biçeroğlu, Editor, US Akademi, pp.1111-1132, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Event-related alpha responses during response inhibition in children and young subjects**
YILDIRIM E., AKTÜRK T., ÇALIŞOĞLU P., UZUNLAR H., YIRIKOĞULLARI H., EROĞLU F., ATAY E., GÜNTEKİN B., CERAN Ö.
18.Ulusal Sinir Bilim Kongresi, Ankara, Turkey, 03 November 2020, vol.14, pp.113-114
- II. **The effects of left presupplementary area high frequency rTMS on motor signs and resting state EEG in Parkinson's Disease Patients with freezing of gait**
SARICAĞLU M., Toprak G., AKTÜRK T., YILDIRIM E., GÜNTEKİN B., HANOĞLU L.
Federation of European Neuroscience Societies, 18 May 2020
- III. **Kognitif Süreçler Sırasında Açığa Çıkan EEG Teta ve Alfa Yanıtlarının Gelişimsel Farklılıkları**
GÜNTEKİN B., UZUNLAR H., ÇALIŞOĞLU P., EROĞLU F., YILDIRIM E., AKTÜRK T., ATAY E., CERAN Ö.
31. Ulusal Biyofizik Kongresi, Turkey, 9 October - 12 September 2019
- IV. **Decreased visual sensory evoked oscillations in Parkinson's disease mild cognitive impairment**
ÖZBEK Y., FİDE E., EMEK SAVAŞ D. D., GÜNTEKİN B., YENER G.
17. Ulusal Sinirbilim Kongresi, 4 - 07 April 2019
- V. **Duyusal görsel uyarılmış osilasyonlar Parkinson Hastalığı'ndaki hafif kognitif bozuklukta azalır**
Özbek Y., Fide E., EMEK SAVAŞ D. D., GÜNTEKİN B., YENER G.
17. Ulusal Sinirbilim Kongresi, Trabzon, Turkey, 4 - 07 April 2019
- VI. **Successful working memory encoding is represented with increased EEG theta responses in children**
GÜNTEKİN B., AKTÜRK T., EROĞLU F., YILDIRIM E., UZUNLAR H., ÇALIŞOĞLU P., ATAY E., CERAN Ö.
17. Ulusal Sinirbilim Kongresi, Turkey, 4 - 07 April 2019, vol.13, pp.47
- VII. **A longitudinal investigation of event related EEG brain oscillations in patients with Parkinson's disease**
AKTÜRK T., YILDIRIM E., HANOĞLU L., HELVACI YILMAZ N., YENER G., GÜNTEKİN B.
17th Turkish Neuroscience Congress, Turkey, 4 - 07 April 2019
- VIII. **Age-related differences in EEG gamma power during recognition of facial expressions**
AKTÜRK T., İŞOĞLU Ü., HANOĞLU L., GÜNTEKİN B.
International Journal of Psychophysiology, 3 September - 05 November 2018, vol.131, pp.69
- IX. **SS-65 ALZHEİMER HASTALIĞI'NDA YÜZ İFADELERİNİN TANINMASI: BİR ERP ÇALIŞMASI**
Fide E., EMEK SAVAŞ D. D., Akturk T., GÜNTEKİN B., YENER G.
54. Ulusal Nöroloji Kongresi, Antalya, Turkey, 30 November - 06 December 2018
- X. **SS-66 PARKİNSON HASTALIĞI'NDA DÜŞÜK FREKANS BANTLARINDAKİ OLAYA İLİŞKİN OSİLATUAR YANITLAR AZALIR**
Hünerli D., EMEK SAVAŞ D. D., Akturk T., GÜNTEKİN B., DÖNMEZ ÇOLAKOĞLU B., YENER G.
54. Ulusal Nöroloji Kongresi, Antalya, Turkey, 30 November - 06 December 2018
- XI. **Amnestic MCI and Parkinson MCI Differ in Brain Dynamics and Topography**
YENER G., GÜNTEKİN B., EMEK SAVAŞ D. D., HANOĞLU L., BAŞAR E.
19th World Congress of Psychophysiology (IOP 2018), 4 - 08 September 2018, vol.131, pp.31
- XII. **Alzheimer hastalığı ve amnestik Hafif Kognitif Bozukluk'ta elektrofizyolojik biyobelirteçler**
KURT P., EMEK SAVAŞ D. D., GÜNTEKİN B., YENER G., BAŞAR E.
16. Ulusal Sinirbilim Kongresi, Turkey, 20 - 23 May 2018
- XIII. **Kognitif bozukluğu olan ve olmayan Parkinson hastalığında olaya ilişkin delta osilasyonları**
Hünerli D., EMEK SAVAŞ D. D., Akturk T., GÜNTEKİN B., DÖNMEZ ÇOLAKOĞLU B., YENER G.

16. Ulusal Sinirbilim Kongresi, Turkey, 20 - 23 May 2018

- XIV. **Alzheimer Hastalığı'nda emosyonel yüz ifadelerine yönelik olaya ilişkin potansiyeller: N170 ve VPP**
Ezgi F., EMEK SAVAŞ D. D., Aktürk T., GÜNTEKİN B., YENER G.

16. Ulusal Sinirbilim Kongresi, Turkey, 20 - 23 May 2018

- XV. **EEG alpha and beta responses in Parkinson's disease upon application of a cognitive paradigm**
MANTAR N., Cadirci F., Yılmaz N. H., HANOĞLU L., EMEK SAVAŞ D. D., YENER G., BAŞAR E., GÜNTEKİN B.
Fifty-Seventh Annual Meeting of the Society for Psychophysiological Research, 11 - 15 October 2017, vol.54, pp.58

- XVI. **Amnestik ve Parkinson Hastalığı Hafif Kognitif Bozukluk Olgularında Duyusal ve Kognitif İşlemlenme Farklılık Gösterir: Görsel Duyusal-Uyarılmış-Osilasyon ve Olaya-İlişkin-Osilasyon Çalışması**
FİDE E., ÖZBEK Y., EMEK SAVAŞ D. D., AKTÜRK T., DÖNMEZ ÇOLAKOĞLU B., GÜNTEKİN B., YENER G.

53. Ulusal Nöroloji Kongresi, Turkey, 24 - 30 November 2017

- XVII. **COMPARISON OF THE VISUAL AND AUDITORY EVENT RELATED POTENTIALS OF PARKINSON'S DISEASE PATIENTS WITH AND WITHOUT COGNITIVE IMPAIRMENT**

güner d., İŞOĞLU Ü., AKTÜRK T., HANOĞLU L., GÜNTEKİN B.

57th Annual Meeting of the Society for Psychophysiological Research (SPR). Vienna. Austria, 11 - 15 November 2017

- XVIII. **AGE RELATED DIFFERENCES IN EEG DELTA PHASE LOCKING DURING FACIAL EXPRESSION RECOGNITION TASK**

AKTÜRK T., İŞOĞLU Ü., güner d., HANOĞLU L., GÜNTEKİN B.

57th Annual Meeting of the Society for Psychophysiological Research (SPR). Vienna. Austria, 11 - 15 October 2017

- XIX. **Yüz İfadesi Algılamada Yaşlanma ve Demans Etkisinin EEG-Beyin Osilasyonları Yöntemi İle Gösterilmesi**

AKTÜRK T., İŞOĞLU Ü., EMEK SAVAŞ D. D., HANOĞLU L., YENER G., GÜNTEKİN B.

29. Ulusal Biyofizik Kongresi, Turkey, 6 - 09 September 2017

- XX. **Kognitif Bozukluk olan ve olmayan Parkinson Hastalığında Olaya İlişkin Potansiyellerin P300 ve N100 Bileşenlerinin Değerlendirilmesi.**

GÜNER D., İŞOĞLU Ü., AKTÜRK T., HANOĞLU L., GÜNTEKİN B.

15.Ulusal Sinirbilim Kongresi, Sakarya, Turkey, 7 - 10 May 2017

- XXI. **Yüz İfadesinin Tanınmasında Yaş Etkisi: EEG Delta Cevap Analizi.**

Aktürk T., İŞOĞLU Ü., Güner d., HANOĞLU L., GÜNTEKİN B.

15.Ulusal Sinirbilim Kongresi, Sakarya, Turkey, 7 - 10 May 2017

- XXII. **Parkinson Hastalığında Kognitif Durumdaki Bozulma ile Görsel Algısal İşlevlerin İlişkisi**

ÇADIRCI F., MANTAR N., HELVACI YILMAZ N., GÖRAL F., GÜNTEKİN B., HANOĞLU L.

14. Ulusal Sinirbilim Kongresi, Turkey, 26 May - 29 April 2016

- XXIII. **The Association Between Ventricular and Sulcal Atrophy and Cognitive and Behavior Condition**

AKTAŞ M., MANTAR N., ÇADIRCI F., TOPRAK G., ERTAN AKAN G., YALÇINER B., GÜNTEKİN B., HANOĞLU L.

14.Ulusal Sinir Bilim Kongresi(uluslararası katılımlı), 26 - 29 May 2016