

## Asst. Prof. Ebru YILDIRIM

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Istanbul Medipol University, Sağlık Bilimleri Enstitüsü, Sinir Bilim (Dr), Turkey 2017 - 2021

Postgraduate, Istanbul Medipol University, Sağlık Bilimleri Enstitüsü, Fizyoterapi Ve Rehabilitasyon (YI) (Tezli), Turkey 2016 - 2017

Undergraduate, Istanbul Medipol University, Sağlık Bilimleri Fakültesi, Fizyoterapi ve Rehabilitasyon Bölümü, Turkey 2012 - 2016

### Dissertations

Doctorate, Parkinson hastalığı demans, alzheimer hastalığı demans ve lewy cisimcikli demans'ta kognitif fonksiyonların olaya-ilişkin EEG beyin osilasyonları ile incelenmesi, Istanbul Medipol University, Sağlık Bilimleri Enstitüsü, Sinir Bilim (Dr), 2021

Postgraduate, Sağlıklı bireylerde transkutanöz elektriksel sinir stimülasyonu' nun EGG üzerindeki etkisi, Istanbul Medipol University, Sağlık Bilimleri Enstitüsü, Fizyoterapi Ve Rehabilitasyon (YI) (Tezli), 2017

### Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Life Sciences, Molecular Biology and Genetics, Cytogenetic, Natural Sciences

### Courses

ELEKTRONÖROFİZYOLOJİ ( EEG-ENMG ) UYG. I, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021

ELEKTRONÖROFİZYOLOJİ ( EEG-ENMG-PSG ) UYGU. II, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020

FİZYOTERAPİDE YARDIMCI GEREÇLER, Associate Degree, 2020 - 2021

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

- 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. **Low frequency oscillations during hand laterality judgment task with and without personal perspectives: a preliminary study**  
Dilek B., YILDIRIM E., HANOĞLU L.  
Cognitive Neurodynamics, vol.17, no.6, pp.1447-1461, 2023 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)

- XIV. **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)
- XV. **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., Algun C.  
PeerJ, vol.2020, no.1, 2020 (SCI-Expanded)
- XVI. **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)

### Articles Published in Other Journals

- I. **Factors Affecting Static and Dynamic Balance in Individuals with Pes Planus: A 45 Case Clinical Study**  
Salih Tan M. S., YILDIRIM E.  
Eastern Journal of Medicine, vol.28, no.4, pp.603-609, 2023 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **PES PLANUSU OLAN ERKEKLERDE DENGENİN DEĞERLENDİRİLME**  
YILDIRIM E., TAN M. S.  
5.ULUSLARARASI SAĞLIKLI YAŞAM KONGRESİ, Turkey, 27 May 2021
- II. **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
- III. **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**  
SARICAOĞLU M., Toprak G., AKTÜRK T., YILDIRIM E., GÜNTEKİN B., HANOĞLU L.  
Federation of European Neuroscience Societies, 18 May 2020
- IV. **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

### Supported Projects

Tan M. S., Yıldırım E., Project Supported by Other Private Institutions, BİR DÜŞÜK AYAK STİMÜLASYON CİHAZI, 2023 - 2025