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**Curriculum Vitae**

**Bahar Güntekin**

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| **EDUCATION &CAREER** | |
| 1977 | Born in Izmir/Turkey |
| 1995-1999 | Physical Therapy and Rehabilitation, Dokuz Eylul University, Izmir, Turkey |
| 1999-2002 | Master's degree in Musculoskeletal Rehabilitation, Dokuz Eylul University, Izmir, Turkey |
| 2003-2006 | PhD in Biophysics, Dokuz Eylul University, Izmir, Turkey |
| 2005-2006 | Scholarship from Tübitak for PhD studies |
| 2006-2007 | Teaching Assistant, Istanbul Kultur University Brain Dynamics Research Center |
| 2007-2010 | Assistant Professor, Istanbul Kultur University Brain Dynamics Research Center |
| 2009- | Vice Director of Istanbul Kultur University Brain Dynamics Research Center |
| 2010-2016 | Associate Professor of Biophysics, Istanbul Kultur University Brain Dynamics Research Center |
| 2016 | Professor of Biophysics, Istanbul Medipol University, International School of Medicine, Department of Biophysics, Program Director |
| 2019-2022 | TUBITAK Health Sciences Research Group Advisory Board Member |

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| **HONORS AND AWARDS** |
| METU Parlar Foundation Young Investigator Award 2016 |
| Turkish Academy of Sciences Young Scientist Outstanding Achievement Award, 2015 |
| 3rd Alzheimer’s Disease Congress, 2nd best poster award, 2013, Istanbul, Turkey |
| Istanbul Kultur University Academic Success Award (she has been awarded each year between 2006-2015) |
| Awarded as the highest ranking graduate of Phd students, 2006 Dokuz Eylül University Graduate School of Health Sciences 2006 |

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| **GRANTS** |
| 1. TÜBİTAK 1001; Project title: Investigation of Possible Biomarkers of Cognitive Processes from Mild Cognitive Disorder to Dementia in Parkinson’s Disease, Project number: 214S111, Project duration: 2016-2018, Role in the project: Principal Investigator 2. TÜBA; Project title: Investigation of Possible Biomarkers of Alzheimer's Disease in EEG-Brain Oscillations Using Emotional Stimuli. The project supported within the scope of TÜBA Outstanding Young Scientist Award. Project duration: 2016-2018, Role in the project: Principal Investigator 3. TÜBİTAK and French Ministry of Foreign Affairs, Bosphorus Program, Project title: Emotional Processes Evaluation in Dementia: an EEG-Brain Dynamics Analysis, Project number: 218S314, Project duration: 2019-2021, Role in the project: Principal Investigator 4. TÜBİTAK 1001; Project title: Investigation of the Effect of Transcranial Alternating Current Stimulation Based on Brain Oscillations on Athlete Performance in an Individualized and Sport-Specific Application: The Example of Volleyball, Project number: 121E669, Project duration: 2022-2024, Role in the project: Principal Investigator 5. TÜBİTAK 1001; Project title: Investigation of the Effects of Gamma 40 Hz Auditory-Visual Sensory Entrainment on Cognitive Functions in Healthy Middle-Aged Persons via EEG-Brain Oscillations Methods, Project number: 122R056, Project duration: 2022-2025, Role in the project: Principal Investigator (accepted, in contract phase) 6. TÜBİTAK 1505 University-Industry Collaboration Support Program; Project title:Development of Sensory Entrainment Integrated Cognitive Game Kit to Improve Cognitive Functions of Alzheimer's Patients, Project number: 5220074, Project duration: 2022-2024, Role in the project: Principal Investigator, Client organization: Güven Future Sağlık Teknolojileri A.Ş. |

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| **EDITORIAL ROLES:** |
| * Scientific Reports-Editorial Board Member- 2021- * Frontiers in Network Physiology Associate Editor 2021- * Aging Brain- Associate Editor 2020- * International Journal of Psychophysiology- Associate Editor 2020- * BioMedical Engineering OnLine-Associate Editor 2019- * Frontiers in Psychopathology Associate Editor 2017- * Frontiers in Behavioral Neuroscience Associate Editor 2017-   **Inivited Special Issues, Role as Guest Editor**   * Scientific Reports, Guest Editor-2023, “Cognitive ageing”- Edited by Martina Amanzio, Bahar Güntekin, Hannah Keage, Louise Brown Nicholls * Clinical EEG and Neuroscience-Guest Editor-2022, “Update on neural oscillations in neuropsychiatric disorders” Edited by Brian O’Donnel, Bahar Güntekin * International Journal of Psychophysiology-Guest Editor 2021, “EEG, ERPs, and EROs in patients with neurodegenerative dementing disorders: A neurophysiological window. Edited by Bahar Güntekin, Claudio Babiloni * Frontiers in Behavioral Neuroscience, Guest Editor-2021, ”The Modification of Working Memory Function” Edited by Kevin D Beck, Bahar Güntekin * International Journal of Psychophysiology-Guest Editor 2016-Research on Brain Oscillations and Connectivity in A New Take-Off State Edited by Erol Başar, Bahar Güntekin, Görsev Yener, Canan Başar-Eroğlu   **Bahar Güntekin is the reviewer for 58 different SCI journals**  Alzheimer's&Dementia: Diagnosis, Assessment, Disease Monitoring, Behavioural Brain Research, Biomedical Signal Processing and Control, Biological Psychology, Bipolar Disorders, Brain and Cognition, Brain Informatics, Brain Imaging and Behavior , BMC Neuroscience, BMC Psychiatry, Brain Research, Cerebral Cortex, Clinical EEG and Neuroscience, Clinical Neurophysiology, Cognitive, Affective, and Behavioral Neuroscience, Cognitive Neurodynamics, Cognitive Systems Research, Computers in Biology and Medicine , Computational and Mathematical Methods in Medicine, Computer Methods and Programs in Biomedicine, Consciousness and Cognition, Cortex, Current Pharmaceutical Design, Experimental Brain Research, Frontiers in Behavioral Neuroscience, Frontiers in Aging Neuroscience, Frontiers in Human Neuroscience, Frontiers in Life Science, Frontiers in Psychology, Frontiers in Psychiatry, Heliyon, Human Brain Mapping, International Journal of Psychophysiology, Journal of Alzheimer's Disease, Journal of Affective Disorders, Journal of Clinical and Experimental Neuropsychology, Journal of Nervous and Mental Disease, Journal of Neural Transmission, Journal of Neuroscience Research, Journal of Psychophysiology, Journal of Psychiatric Research, Motivation and Emotion, Neurobiology of Aging, Neuroimage, Neuroimage Clinical, Neuropsychologia, Neuroscience, Neuroscience Letters, Neurological Sciences and Neurophysiology, Oncotarget, PeerJ, Plos One, Psychophysiology, Scientific Reports, Social Cognitive and Affective Neuroscience, Social Neuroscience, Turkish Neurological Sciences, Turkish Journal of Medical Sciences |
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| **PROFESSIONAL SOCIETIES** |
| Turkish Biophysics Society |
| European Society for Cognitive and Affective Neuroscience (Founding member) |
| International Organization of Psychophysiology |
| Alzheimer’s Association-EPIA Electrophysiology professional Interest Area, elected vice chair 2021-2023, will serve as elected chair in 2023-2025 and past Communication Chair 2019-2021 |
| Society for Psychophysiological Research |
| Brain Research Society (Turkey) |
| Neuroscience Society of Turkey |

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| **Invited Talks:** |
| **International** |
| Bahar Güntekin.“"Essential Features of Brain Oscillation Analysis in Cognitive Processes". COGNITIVE X - International Cognitive Neuroscience Meeting - April 19-21, 2013 - Istanbul Bilgi University, Istanbul, Turkey |
| Bahar Güntekin.“Analysis of Emotional Processes by means of Event Related Oscillations”; Internationales Symposium: Brain Oscillations and Cognition, Bremen, Germany; 13th November 2014 |
| Bahar Güntekin.“"Alzheimer's disease: Emotional Face Expressions and Brain Oscillations" Emotional Brain and Pathology *Annual Meeting 2016,* of the Société de Psychophysiologie et de Neurosciences Cognitives *Affiliated to the International Organization of Psychophysiology* *and Société des Neurosciences September 29-30 2016.Lille France.* |
| Bahar Güntekin.“ERD/ERS and Event Related Oscillations in Alzheimer's disease" Innovative analysis of electromagnetic brain signals for early diagnosis of Alzheimer and related dementias. UNDER THE AUSPICES OF THE INTERNATIONAL FEDERATION OF CLINICAL  NEUROPHYSIOLOGY (I.F.C.N.). Rome, 19-20 June 2017 |
| Bahar Güntekin “Event Related Oscillatory Dynamics of Emotional Processes” Multiscale Neurodynamics of Emotions and their Pathologies, 19th of October 2017, Lille France. |
| Bahar Güntekin “The Methodology of EEG-Brain Dynamics in the Research of the Health Sciences” 1st International Congress on Physiotechnotherapy (ICPTT), Sarajevo, Bosnia and Herzegovia, 9-13 May 2018. |
| **National** |
| Bahar Güntekin Türkiye Özel Okullar Birliği Derneği 10.Antalya Sempozyumu ”Eğitim Ve Beyin”, 03-05 Şubat 2011, Antalya, Türkiye |
| Bahar Güntekin “Kognitif İşlevlerin EEG Beyin Osilasyonları ile Değerlendirilmesi”. Uludağ Üniversitesi. 5 Mayıs 2017. |
| Bahar Güntekin “EEG-Beyin Osilasyonları Genel Prensipleri ve Uygulamaları: Prof. Dr. Erol Başar'ın Anısına”. Gazi Üniversitesi. 24 Nisan 2018 |
| **Symposium Talks:** |
| **International** |
| Alpha and Theta Oscillations in Recognition of Facial Expressions. 13th World Congress of Psychophysiology, 28 August-02 September 2006, Istanbul, Turkey |
| Preliminary Biomarkers of Alzheimer Disease in Brain Oscillations and the Effects of Drug Application. 1st Annual World Congress of Neuro Talk, 25-28 June 2010; Singapore. |
| Event Related Beta Responses are Increased Upon Negative Emotion-Stimuli. 14th European Congress on Clinical Neurophysiology, Rome, Italy, 21-25 June 2011. |
| Event Related Oscillations upon Emotional Stimuli. BIT’s 3rd Annual World Congress of NeuroTalk, Beijing, China. 18-20 May2012, |
| Changes in Brain Oscillations and Connectivity Deficit in Bipolar Disorder. 16th World Congress of the International Organization of Psychophysiology, Pisa, Italy; 13-17 September 2012. |
| Brain’s Oscillatory Responses in Perception of Emotional Pictures. 17th World Congress of the International Organization of Psychophysiology, Hiroshima, Japan; 23-27 September, 2014. |
| Delta oscillatory responses as a general electrophysiological biomarker for cognitive disorders. The 18th World Congress of Psychophysiology (IOP2016) Congress, Habana, Cuba,31 August-4 September 2016. |
| EEG Brain Oscillations in Neurodegenerative Disease. International Meeting on Education & Research in Health Sciences (IMER-HS). Istanbul, Turkey, 3-5 November 2017. |
| The Methodology of EEG-Brain Dynamics in the Research of the Health Sciences. 1st International Congress on Physiotechnotherapy (ICPTT), Sarajevo, Bosnia and Herzegovia, 9-13 May 2018. |
| EEG Theta and Alpha Responses in Patients with Parkinson’s Disease with and without Hallucinations. The 19th World Congress of Psychophysiology (IOP2018) Congress. Lucca, Italy 4-8 September 2018. |
| Understanding Basar’s Theory on Brain-Body-Mind Oscillations. The 19th World Congress of Psychophysiology (IOP2018) Congress. Lucca, Italy 4-8 September 2018. |
| **National** |
| Beynimiz Yüz İfadelerini Nasıl Tanıyor? Ossilatuar Bir Çalışma. 42. Ulusal Psikiyatri Kongresi, 01-05 November 2006, Istanbul, Turkey |
| Gender Differences in Brain Oscillations. 6th National Congress of Neuroscience, 09-13 April 2007, Safranbolu/Karabük, Turkey |
| Elektrofizyolojik Yöntemler ile Cinsiyet Farklılıkları Anlaşılabilir mi? 19. Ulusal Biyofizik Kongresi, 05-07 September 2007, Konya, Turkey |
| Alzheimer Hastalığında Olaya İlişkin EEG Koherans Analizi. 20. Ulusal Biyofizik Kongresi, 22-25 October 2008, Mersin |
| Long-Range Intrahemispheric Coherence of Healthy Subjects upon Application of an Auditory Oddball Paradigm. 2nd International Biophysics Congress and Biotechnology at GAP and 21. Ulusal Biyofizik Kongresi, 05-09 October 2009, Diyarbakır, Turkey |
| Beyin Osilatuar yanıtları nedir; Fizyolojik Koşullarda Beyin Dinamiğini Anlamamıza Nasıl Yardımcı Olurlar? 46. Ulusal Psikiyatri Kongresi, 05-09 October 2010, Izmir, Turkey. |
| Event related Oscillations and Event Related Coherence in Healthy Subjects. 10. Ulusal Sinirbilim Kongresi,09-12 April 2011, Istanbul, Turkey, |
| Güntekin, B., Duygusal süreçlerde EEG beyin osilasyonları bulgularına dayanan fonksiyon haritası. 12.Ulusal sinirbilim kongresi, 28-31 Mayıs 2014, Istanbul, Turkey. |
| Parkinson Hastalarında Görsel Seyrek Uyaran Paradigması Uygulaması Sonrasında Açığa Çıkan Olaya İlişkin EEG-Beyin Osilasyonları. 14.Ulusal sinirbilim kongresi, 26-29 Mayıs 2016, Ankara, Turkey. |
| Nörodejeneratif hastalıklarda EEG beyin osilasyonları değişiklikleri. 15.Ulusal sinirbilim kongresi, 7-10 Mayıs 2017, Sakarya, Turkey |
| Nörodejeneratif Hastalıklarda Olaya İlişkin EEG-Beyin Osilasyonları Biyobelirteçleri, 43. Ulusal Fizyoloji Kongresi, 07 – 10 Eylül 2017, Denizli, , Turkey |
| Beyin Osilasyon Yanıtlarının Değerlendirilmesinde Genel İlkeler ve Parkinson Hastalığındaki Uygulamalar. 16. Ulusal Sinirbilim Kongresi, 20-23 Mayıs 2018, İstanbul, Türkiye |
| Kognitif Süreçler Sırasında Açığa Çıkan EEG Teta ve Alfa Yanıtlarının Gelişimsel Farklılıkları. 31. Ulusal Biyofizik Kongresi, Eylül 2019, Adana, Türkiye |
| Bilimsel Nicelikten, Bilimsel Niteliğe Doğru Vakıf Üniversitelerinde Biyofizik Anabilim Dallarının Yeri ve Önemi, 31. Ulusal Biyofizik Kongresi, Eylül 2019, Adana, Türkiye |

**RESEARCHER PROFILES:**

**​**

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**Web of Science Researcher ID:** A-4974-2018

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**LIST OF PUBLICATIONS:**

**(Peered-reviewed) Articles in SCI indexed Journals**

**Number: 90**

**Citations: updated on of 16th of October 2022**

**(source: ISI Web of Knowledge, author search: Guntekin B Or Guentekin B.)**

**h-index: 31**

**Sum of the time cited: 2457**

**(source: Scopus)**

**h-index: 33**

**Sum of the time cited: 2837**

**(source: Google Scholar)**

**h-index: 37**

**Sum of the time cited: 4152**

**(Peered-reviewed, SCI) Articles in International Journals**

1. Başar, E., **Güntekin, B.,** Öniz, A., Principles of Oscillatory Brain Dynamics and A Treatise of Recognition of Faces and Facial Expressions. Review. Volume on ERD of the Series Prog. Brain Res. 2006;159:43-62.
2. Yener, G.G., **Güntekin, B**., Öniz, A., Başar, E., Increased Frontal Phase-locking of Event Related Theta Oscillations in Alzheimer Patients Treated with Acetylcholine-Esterase Inhibitors. Int. J. Psychophysiol. 2007;64(1): 46-52.
3. Başar, E., **Güntekin, B**., A Breakthrough in Neuroscience needs a “Nebulous Cartesian System”Oscillations, Quantum Dynamics and Chaos in the Brain and Vegetative System. Review. Int. J. Psychophysiol. 2007; 64(1):108-22.
4. **Güntekin, B**., Başar, E., Emotional Face Expressions are Differentiated with Brain Oscillations. Int. J. Psychophysiol. 2007; 64(1):91-100.
5. **Güntekin, B**., Başar, E., Brain Oscillations are Highly Influenced by Gender Differences. Int. J. Psychophysiol. 2007; 65(3):294-9.
6. **Güntekin, B**., Başar, E., Gender Differences Influence Brain’s Beta Oscillatory Responses in Recognition of Facial Expressions. Neurosci. Lett. 2007;424(2):94-9.
7. Yener, G.G., **Güntekin, B.,** Başar, E., Event Related Delta Oscillatory Responses of Alzheimer Patients. Eur. J. Neurol. 2008; 15(6):540-7.
8. **Güntekin, B**., Saatçi, E., Yener, G.G., [Decrease of Evoked Delta, Theta and Alpha Coherences in Alzheimer Patients During a Visual Oddball Paradigm.](http://www.ncbi.nlm.nih.gov/pubmed/18598686?ordinalpos=5&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Brain Res. 2008; 1235:109-16.
9. Özerdem, A., **Güntekin, B.,** Tunca, Z., Başar, E., [Brain Oscillatory Responses in Patients with Bipolar Disorder Manic Episode Before and After Valproate Treatment.](http://www.ncbi.nlm.nih.gov/pubmed/18644356?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Brain Res. 2008; 1235:98-108.
10. Başar, E., **Güntekin, B.,** [A Review of Brain Oscillations in Cognitive Disorders and the Role of Neurotransmitters.](http://www.ncbi.nlm.nih.gov/pubmed/18640103?ordinalpos=4&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Brain Res. 2008; 1235:172-93.
11. **Güntekin B.,** Başar, E., Facial Affect Manifested with Multiple Oscillations. Int. J. Psychophysiol., Int. J. Psychophysiol. 2009; 71(1):31-6.
12. Başar, E., **Güntekin, B**., [Darwin's Evolution Theory, Brain Oscillations, and Complex Brain Function in a New "Cartesian View".](http://www.ncbi.nlm.nih.gov/pubmed/18805445?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Int. J. Psychophysiol. 2009; 71(1):2-8.
13. Başar, E., **Güntekin, B**., [Bergson's Intuition and Memory in View of NeuroQuantology](http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=CitationReport&qid=2&SID=Q1LG478k1nPH27Bh6oI&page=1&doc=1). Neuroquantology.2009; 7(4): 602-608.
14. Başar, E., **Güntekin, B**., [An Essay on Darwin's Theory and Bergson's Creative Evolution in the Era of NeuroQuantology](http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=CitationReport&qid=2&SID=Q1LG478k1nPH27Bh6oI&page=1&doc=2). Neuroquantology 2009;  7(4):609-622.
15. Yener, G.G., **Güntekin, B**., Tülay, E., Başar, E., [A Comparative Analysis of Sensory Visual Evoked Oscillations With Visual Cognitive Event Related Oscillations in Alzheimer's Disease](http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=CitationReport&qid=2&SID=Q1LG478k1nPH27Bh6oI&page=1&doc=3). Neuroscience Letters 2009; 462(3):193-197.
16. Özerdem, A., **Güntekin, B.,** Saatçi, E., Tunca, Z., Başar, E., Disturbance in Long Distance Gamma Coherence in Bipolar Disorder. Prog. Neuropsychopharmacol. Biol. Psychiatry. 2010; 34(6):861-5.
17. **Güntekin, B.,** Başar, E., A New Interpretation of P300 Responses Upon Analysis of Coherences. Cognitive Neurodynamics 2010; 4(2-3):107-118.
18. Başar, E., **Güntekin, B.,** Tülay, E., Yener, G.G., Evoked and Event Related Coherence of Alzheimer Patients Manifest Differentiation of Sensory-Cognitive Networks. Brain Research 2010; 1357:79-90.
19. **Güntekin, B**., Basar, E., 2010. Event-Related Beta Oscillations are Affected by Emotional Eliciting Stimuli. Neuroscience Letters 2010; 483:173–178.
20. Özerdem, A**., Güntekin, B**., Atagün, İ.M., Turp, B., Başar, E., Reduced Long Distance Gamma (28–48 Hz) Coherence in Euthymic Patients with Bipolar Disorder. Journal of Affective Disorders 2011; 132:325–332.
21. Yener, G.G., **Güntekin, B**., Orken, D.N., Tülay, E., Forta, H., Başar, E., Auditory Delta Event-Related Oscillatory Responses are Decreased in Alzheimer's Disease. Behav. Neurol. 2012; 25(1):3-11.
22. Başar, E., **Güntekin, B**., Atagün, İ.M., Turp-Gölbaşı, B., Tülay, E., Özerdem, A., Brain’s Alpha Activity is Highly Reduced in Euyhymic Bipolar Disorder Patients. Cognitive Neurodynamics 2012; 6(1):11-20.
23. Başar, E., **Güntekin, B.,** [A Short Review of Alpha Activity in Cognitive Processes and in Cognitive Impairment.](http://www.ncbi.nlm.nih.gov/pubmed/22801250) Int. J. Psychophysiol. 2012; 86(1):25-38.
24. Atagün, M.İ., **Güntekin, B**., Özerdem, A., Tülay, E., Başar, E., Decrease of Theta Response in Euthymic Bipolar Patients During an Oddball Paradigm. Cognitive Neurodynamics 2013, Volume 7, Issue 3, pp 213-223
25. Yener GG, Kurt P, Emek-Savaş DD, **Güntekin B**, Başar E. Reduced visual event-related delta oscillatory responses in amnestic mild cognitive impairment. J Alzheimers Dis. 2013 Jan 1;37(4):759-67.
26. **Güntekin B**.,Emek-Savaş D.D.,Kurt P.,Yener G.G.,Başar E.,2013. Beta oscillatory responses in healthy subjects and subjects with mild cognitive impairment, Neuroimage Clin. 2013 Jul 17;3:39-46. Türkiye
27. Atagün, M.İ., **Güntekin, B,**  Masali, B., Tülay, E., Başar E. 2014. Decrease of event-related delta oscillations in euthymic patients with bipolar disorder. Psychiatry Research Neuroimaging, 2014 Jul 30;223(1):43-8.
28. B**. Güntekin,** E. Başar. A Review of Brain Oscillations in Perception of Faces and Emotional Pictures,Neuropsychologia, 2014, May, 58C, 33-51;
29. Pınar Kurt, Derya Durusu Emek-Savaş, Kübra Batum,Bilge Turp, **Bahar Güntekin,** Sibel Karşıdağ, Görsev Gülmen Yener“Patients with Mild Cognitive Impairment Display Reduced Auditory Event-Related Delta Oscillatory Responses,” Behavioural Neurology, vol. 2014, Article ID 268967, 11 pages, 2014.
30. Başar E., Düzgün A., **Güntekin B**.,.A proposal to extend Brodmann's areas concept to a new model . Neuroquantology. Volume 12, Issue 2, 2014, Pages 201-209.
31. **Güntekin B,** Tülay E. Event related beta and gamma oscillatory responses during perception of affective pictures. Brain Res. 2014 Jun 30. pii: S0006-8993(14)00845-2. doi: 10.1016/j.brainres.2014.06.029.
32. Yener GG, Savaş DD, **Güntekin B,** Başar E. The visual cognitive network, but not the visual sensory network, Is affected in amnestic mild cognitive impairment: a study of brain oscillatory responses. Brain Res. 2014 Aug 21. pii:S0006-8993(14)01113-5. doi: 10.1016/j.brainres.2014.08.038. [Epub ahead of print]
33. Murat Ilhan Atagun, **Bahar Güntekin,** Devran Tan, Emine Elif Tülay,Erol Başar. Lithium Excessively Enhances Event Related Beta Oscillations in Patients with Bipolar Disorder. Journal of Affective Disorders, Volume 170, 1 January 2015, Pages 59–65.
34. Başar E, Tülay E, **Güntekin B**. Multiple gamma oscillations in the brain: A new strategy to differentiate functional correlates and P300 dynamics. Int J Psychophysiol. 2015 Mar;95(3):406-20.
35. Savaş DD, **Güntekin B,,** Yener GG, E. Başar. Decrease of delta oscillatory responses is associated with increased age in healthy elderly. Int J Psychophysiol. 2016 May;103:103-9.
36. Tan D, Özerdem A, **Güntekin B**, Atagün MI, Tülay E., Karadağ F, BaşarE. Increased beta frequency (15-30 Hz) oscillatory responses in euthymic bipolar patients under lithium monotherapy. Clin EEG Neurosci. 2016 Apr;47(2):87-95.
37. Yener GG, Savaş DD, Lizio R., Çavuşoğlu B., Carducci F., Ada e., **Güntekin B.,** Babiloni C., Başar E. Frontal delta event-related oscillations relate to frontal volume in mild cognitive impairment and healthy controls. Int J Psychophysiol. 2016 May;103:110-7.
38. **B. Güntekin,** E. Başar. Review of evoked and event-related delta responses in the human Brain. Int J Psychophysiol. 2016 May;103:43-52.
39. E. Başar, C. Schmiedt-Fehr, B. Mathes, B. Femir, DD. Emek-Savaş, E. Tülay, D. Tan, A. Düzgün, **B. Güntekin**, A. Özerdem, G. Yener, C. Başar-Eroğlu.What the broken brain tells to the neuroscientist? Oscillations and connectivity in Schizophrenia, Alzheimer’s Disease, Bipolar Disorders., Int J Psychophysiol. 2016 May;103:135-48.
40. E.Başar, DD. Emek-Savaş, **B. Güntekin**, G. Yener. Delay of cognitive gamma responses in Alzheimer's disease. Neuroimage Clinical. 2016; 11: 106-115.
41. Emek-Savaş DD, Özmüş G, **Güntekin B**, Dönmez Çolakoğlu B, Çakmur R, Başar E,Yener GG. Decrease of Delta Oscillatory Responses in Cognitively Normal

Parkinson's Disease. Clin EEG Neurosci. 2017 Sep;48(5):355-364.

1. Kurt P, Eroğlu K, Bayram Kuzgun T, **Güntekin B.** The modulation of delta responses in the interaction of brightness and emotion. Int J Psychophysiol. 2017 Feb;112:1-8. doi: 10.1016/j.ijpsycho.2016.11.013.
2. **Güntekin, B.,** Femir, B., Gölbaşı, B.T., Tülay, E., Başar, E. Affective pictures processing is reflected by an increased long-distance EEG connectivity (2017) Cognitive Neurodynamics, pp. 1-13.
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**Book Chapters**

* 1. Başar E.,Başar-Eroğlu C.,**Güntekin B.,**Yener G.G., “Chapter 2 - Brain's alpha, beta, gamma, delta, and theta oscillations in neuropsychiatric diseases: proposal for biomarker strategies Volume 62, *Pages 19-54*; Supplements to Clinical Neurophysiology 2013.
  2. Özerdem A., **Güntekin B.,** Atagün M. İ., Başar E., Chapter 14 Brain oscillations in bipolar disorder in search of new biomarker. Volume 62, *Pages 207-221*; Supplements to Clinical Neurophysiology 2013.
  3. Başar E., **Güntekin B.,** Chapter 19 Review of delta, theta, alpha, beta and gamma response oscillations in neuropsychiatric disorders. Volume 62, *Pages 303-341*; Supplements to Clinical Neurophysiology 2013.

**ABSTRACTS**

**International**

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**33.** Fide, E., Emek-Savaş, D.D., Aktürk, T., **Güntekin, B.,** Yener, G. (2018). Alzheimer Hastalığı’nda emosyonel yüz ifadelerine yönelik olaya ilişkin potansiyeller: N170 & VPP. 16. Ulusal Sibirbilim Kongresi, Istanbul, Türkiye.

**34**. Yıldırım, E., Aktürk, T., Hanoğlu, L., **Güntekin, B.** (2019). Parkinson Hastalığı Demans ve Lewy Cisimcikli Demanslı Hastalarda Bilişsel Bozukluk Anormal Olaya İlişkin EEG Teta ve Alfa Yanıtlarıyla Yansıtılır. 17. Ulusal Sinirbilim Kongresi, Trabzon, Türkiye

**35.** Özbek, Y., Fide, E., Emek-Savaş, D.D., **Güntekin, B**., Yener, G.G. (2019). Duyusal Görsel Uyarılmış Osilasyonlar Parkinson Hastalığındaki Hafif Kognitif Bozuklukta Azalır. 17. Ulusal Sinirbilim Kongresi, Trabzon, Türkiye.

**36.** Aktürk, T., Yıldırım, E., Hanoğlu, L., Helvacı-Yılmaz, N., Yener, G.G., **Güntekin, B**. (2019). Parkinson Hastalarının Olaya İlişkin EEG Beyin Osilasyonlarının Boylamsal Olarak İncelenmesi. 17. Ulusal Sinirbilim Kongresi, Trabzon, Türkiye.

**37.** Uzunlar S.H., Çalışoğlu, P., Aktürk, T., Yıldırım, E., **Güntekin, B**. (2019). Sağlıklı Genç Yetişkinlerde Görsel ve İşitsel Bellek Süreçlerinin EEG Olaya İlişkin Osilasyonlar Yöntemi ile İncelenmesi. 17. Ulusal Sinirbilim Kongresi, Trabzon, Türkiye.

**38.** Aktürk, T., Şahoğlu-Göktaş, S., Uysal-Kaba, R., Abra, Y., Özkan, D., Kula, A., **Güntekin, B**. (2019). Dinamik Yüz İfadelerinin İşlenmesinde EEG Olaya İlişkin Teta Yanıtlarının İncelenmesi. 17. Ulusal Sinirbilim Kongresi, Trabzon, Türkiye.

**39.** **Güntekin, B**., Aktürk, T., Eroğlu-Ada, F., Yıldırım, E., Uzunlar H., Çalışoğlu, P., Atay, E., Ceran, Ö. (2019). Çocuklarda Başarılı Çalışan Bellek Kodlaması Artmış EEG Teta Yanıtları ile Temsil Edilir. 17. Ulusal Sinirbilim Kongresi, Trabzon, Türkiye.

**40.** **Güntekin, B**. (2019). Bilimsel Nicelikten, Bilimsel Niteliğe Doğru Vakıf Üniversitelerinde Biyofizik Anabilim Dallarının Yeri Ve Önemi. 31. Ulusal Biyofizik Kongresi, Adana, Türkiye.

**41.** **Güntekin, B.,** Uzunlar H., Çalışoğlu, P., Eroğlu, F., Yıldırım, E., Aktürk, T., Atay, E., Ceran, Ö. (2019). Kognitif Süreçler Sırasında Açığa Çıkan EEG Teta ve Alfa Yanıtlarının Gelişimsel Farklılıkları. 31. Ulusal Biyofizik Kongresi, Adana, Türkiye.

42. **Güntekin, B.** (2019). Bilimsel Nicelikten, Bilimsel Niteliğe Doğru Vakıf Üniversitelerinde Biyofizik Anabilim Dallarının Yeri Ve Önemi. 31. Ulusal Biyofizik Kongresi, Adana, Türkiye.

**43.** **Güntekin, B.,** Uzunlar H., Çalışoğlu, P., Eroğlu, F., Yıldırım, E., Aktürk, T., Atay, E., Ceran, Ö. (2019). Kognitif Süreçler Sırasında Açığa Çıkan EEG Teta ve Alfa Yanıtlarının Gelişimsel Farklılıkları. 31. Ulusal Biyofizik Kongresi, Adana, Türkiye.

**44.** Dilek, B., Yıldırım, E., **Güntekin, B**., Hanoğlu, L. (2021). Amputelerde el lateralizasyonu bilişsel görevi sırasındaki olaya ilişkin teta yanıtları. 19. Ulusal Sinirbilim Kongresi. 21-23 Kasım 2021. Özet Kitapçığı sayfa 37.

**45.** Bölükbaş, B., Aktürk, T., Ardalı, H., Dündar, Y., Güngör, C., Kahveci, Ş., **Güntekin, B.** (2021). Görsel ve emosyonel oddball paradigmaları esnasında meydana gelen olaya ilişkin delta ve teta yanıtları. Sözel bildiri. 19. Ulusal Sinirbilim Kongresi, Türkiye. 21-23 Kasım 2021. Özet Kitapçığı sayfa 47.

**46.** Manga, M., Dalmızrak, E., **Güntekin, B.** (2021). Ağrılı uyaran esnasında sağlıklı bireylerin kognitif becerilerinin elektroensefalogramla araştırılması. Sözel bildiri. 19. Ulusal Sinirbilim Kongresi, Türkiye. 21-23 Kasım 2021. Özet Kitapçığı sayfa 39.

**47.** Aktürk, T., Hanoğlu, L., de Graaf, T. A., Sack, A. T., **Güntekin, B.** (2021). Bireysel Teta Frekansına Dayanan Transkranyal Alternatif Akım Uyarımının Bellek İşlevleri Üzerindeki Etkisinin Olaya-İlişkin EEG Yöntemi ile Araştırılması. 1. Nöromodülasyon Sempozyumu (Çevrimiçi), Türkiye.

**48. Güntekin, B.** (2022). Event-related EEG Brain Oscillations Methods and Applications. 4. Uluslararası 33. Ulusal Biyofizik Kongresi, Adıyaman, Türkiye. 31 Ağustos-3 Eylül 2022.

**49.** Yıldırım, E., Aktürk, T., Hanoğlu, L., Yener, G., **Güntekin, B**. (2022). Investigation of Cognitive Functions in Different Types of Dementia by the Event-related EEG Brain Oscillations. 4. Uluslararası 33. Ulusal Biyofizik Kongresi, Adıyaman, Türkiye. 31 Ağustos-3 Eylül 2022.

**50**. Aktürk, T., Hanoğlu, L., **Güntekin, B.** (2022). The use of transcranial alternating current stimulation to modulate EEG-brain oscillations with measurable effect on cognition. 4. Uluslararası 33. Ulusal Biyofizik Kongresi, Adıyaman, Türkiye. 31 Ağustos-3 Eylül 2022.

**CONFERENCES ATTENDANCE**

**International**

1. 12th World Congress of the International Organization of Psychophysiology, 18

23 September 2004, Porto Carras, Greece (Attendee).

1. Brain Dynamics and Cognition Conference, 14-18 May 2005, Izmir, Turkey (Attendee).
2. Society of Applied Neuroscience Proceedings of the Scientific Program, 31

August-02 September 2005, Istanbul, Turkey (Attendee).

1. Mind and Electrophysiology, 6-10 October 2005, Guadalajara, Mexico (Poster presentation)
2. 13th World Congress of the International Organization of Psychophysiology, 28

August-02 September 2006, Istanbul, Turkey (Symposium talk, Poster presentation)

1. 28th International Congress of Clinical Neurophysiology, 10-14 September 2006,

Edinburgh, Scotland. (Poster presentation)

1. International Psychogeriatric Association, 3-6 May 2007, Istanbul, Turkey (Symposium talk)
2. Society of Biological Psychiatry, 62nd Annual Scientific Meeting and Convention,

17-19 May 2007, San Diego,U.S.A. (Oral presentation, Poster presentation)

1. Brain-Mind in Probabilistic Hyperspace, 19-21 October 2007, İstanbul Kültür

University, Turkey (Organization committee, Symposium talk).

1. 10th International Conference on Cognitive Neuroscience, 1-5 September 2008,

Bodrum, Turkey(Organization committee).

1. 2nd International Biophysics Congress and Biotechnology at GAP and 21st

National Biophysics Congress, 05-09 October 2009, Diyarbakır, Turkey(Oral presentation).

1. World Federation of Neurology Aphasia and Cognitive Disorders Research Group

Meeting, 15-18 May 2010, Princes’ Islands, Heybeliada, Istanbul (Symposium talk).

1. 1st Annual World Congress of Neuro Talk, 25-28 June 2010, Singapore (Symposium talk).
2. 15th World Congress of Psychophysiology of the International Organization of

Psychophysiology, 1-4 September 2010, Budapest, Hungary (Poster presentation).

1. “Brain Oscillations in Cognitive Impairment and Neurotransmitter”

Conference/Workshop, 29 April-01 May 2011, Çınar Otel, Istanbul, Türkiye (Organization committee, Symposium talk).

1. 66th Annual Scientific Meeting and Convention of Society of Biological Psychiatry,

2011, San Francisco, California, U.S.A. (Poster presentation).

1. VI Workshop on Advances in The Study of Brain Activity of the Thematic Networkon Cognitive Neuroscience” 13-16 June 2011, Sevilla, Spain (Poster presentation).
2. 14th European Congress on Clinical Neurophysiology, 21-25 June 2011, Rome,

Italy. (Symposium talk).

1. Kognitif IX, International Cognitive Neuroscience Meeting, 13-15 April 2012,

Istanbul, Turkey (Attendee).

1. 67thAnnual Scientific Convention and Program of Society of Biological

Psychiatry,3-5 May 2012, Philadelphia, Pennsylvania, U.S.A. (Poster presentation).

1. BIT’s 3rd Annual World Congress of Neurotalk, 18-20 May 2012, Beijing, China (Symposium talk).
2. “Neuroimaging, creativity, and mental illness: What are the relationships?”

Conference, 29 August 2012, Istanbul Kultur Universitesi, Istanbul, Turkey. (Organization committee).

1. 16th World Congress of the International Organization of Psychophysiology, 13-17 September 2012, Pisa, Italy (Symposium talk).
2. COGNITIVE X - International Cognitive Neuroscience Meeting - April 19-21, 2013

Istanbul Bilgi University, Istanbul, Turkey. (Invited talk).

1. 30th International Congress of Clinical Neurophysiology, March 2014, Berlin,

Germany (Oral presentation, Poster presentation).

1. Internationales Symposium: Brain Oscillations and Cognition, Bremen, Germany; 13th November 2014 (Invited talk).
2. Society of Biological Psychiatry 69th Annual Scientific Meeting, 8-10 Mayıs 2014,

New York, USA (Poster presentation)

1. 17th World Congress of Psychophysiology (IOP2014) Congress, Hiroshima, Japan 23-27 September 2014 (Symposium talk, Poster presentation).
2. 55th Annual Meeting of Society for Psychophysiological Research, Seattle, Washington, September 30-October 4, 2015 (Poster presentation).
3. The 18th World Congress of Psychophysiology (IOP2016) Congress, Habana, Cuba, 31 August-4 September 2016 (Symposium talk).
4. Emotional Brain and Pathology Annual Meeting 2016, of the Société de Psychophysiologie et de Neurosciences Cognitives Affiliated to the International Organization of Psychophysiology and Société des Neurosciences September 29-30 2016.Lille France (Invited talk).
5. Updates on Human Brain Connectome: From Physiology to Diseases. Rome,Italy, 28-29 November 2016.(Attendee).
6. Innovative analysis of electromagnetic brain signals for early diagnosis of Alzheimer and related dementias. UNDER THE AUSPICES OF THE INTERNATIONAL FEDERATION OF CLINICAL NEUROPHYSIOLOGY (I.F.C.N.). Rome, 19-20 June 2017 (Invited talk).
7. BaCI 2017: International Conference on Basic and Clinical Multimodal Imaging, Bern, Switzerland (Talk for Erol Başar Career Contributaion Award).
8. 57 th Annual Meeting of Society for Psychophysiological Research, Vienna, Austria, 11-15 October 4, 2017 (Poster presentation).
9. Multiscale Neurodynamics of Emotions and their Pathologies, 19th of October 2017, Lille France. (Invited talk).
10. International Meeting on Education & Research in Health Sciences (IMER-HS). Istanbul, Turkey, 3-5 November 2017 (Symposium talk).
11. 1st International Congress on Physiotechnotherapy (ICPTT), Sarajevo, Bosnia and Herzegovia, 9-13 May 2018 (Symposium talk).
12. The 19th World Congress of Psychophysiology (IOP2018) Congress. Lucca, Italy 4-8 September 2018 (Symposium talk).

**National**

1. Ulusal Noroloji Kongresi, 5-10 Aralık 2005, İstanbul, Türkiye (Oral presentation).
2. Disiplinler Arası ‘Kaos’ Kongresi, 13-15 Mayıs 2006, İstanbul, Türkiye (Attendee).
3. Ulusal Psikiyatri Kongresi, 01-05 Kasım 2006, İstanbul, Türkiye (Symposium talk).
4. 6th National Congress of Neuroscience, 09-13 Nisan 2007, Safranbolu,

Karabük, Türkiye (Oral presentation).

1. 19. Ulusal Biyofizik Kongresi, 05-07 Eylül 2007, Konya, Türkiye (Oral presentation).
2. 20. Ulusal Biyofizik Kongresi, 22-25 Ekim 2008, Mersin, Türkiye (Oral presentation).
3. 21. Ulusal Biyofizik Kongresi, 05-09 Ekim 2009, Diyarbakır, Türkiye (Oral presentation)
4. 22. Ulusal Biyofizik Kongresi, 28 Eylül- 01 Ekim 2010, Aydın, Türkiye (Poster presentation).
5. 46. Ulusal Psikiyatri Kongresi, 05-09 Ekim 2010, İzmir, Türkiye (Symposium talk).
6. “Çağımızın İki Büyük Sağlık Sorunu: Depresyon ve Demans” Semineri, 09

Aralık 2010, İstanbul Kültür Üniversitesi, İstanbul, Türkiye. (Organization committee).

1. Türkiye Özel Okullar Birliği Derneği 10.Antalya Sempozyumu ”Eğitim Ve

Beyin”, 03-05 Şubat 2011, Antalya, Türkiye (Invited talk).

1. 10. Ulusal Sinirbilim Kongresi, 09-12 Nisan 2011, İstanbul, Türkiye (Attendee).
2. Nöropsikiyatrik Hastalıklarda Beyin Görüntüleme Çalıştayı Haziran 2013 (Chair, Symposium talk).
3. 12.Ulusal sinirbilim kongresi, 28-31 Mayıs 2014. İstanbul, Türkiye (Symposium talk).
4. 14.Ulusal sinirbilim kongresi, 26-29 Mayıs 2016. Ankara, Türkiye (Symposium talk).
5. 15.Ulusal sinirbilim kongresi, 7-10 Mayıs 2017, Sakarya, Türkiye (Symposium talk).
6. 43. Ulusal Fizyoloji Kongresi, 07 – 10 Eylül 2017, Denizli, , Türkiye (Symposium talk).
7. 28-29. Ulusal Biyofizik Kongresi, 6-9 Eylül 2017, İstanbul, Türkiye (Attendee).
8. 16. Ulusal Sinirbilim Kongresi, 20-23 Mayıs 2018, İstanbul, Türkiye (Symposium talk).