

Prof. SELCEN ABİDİN

Personal Information

Office Phone: [+90 462 377 7807](tel:+904623777807)

Email: sabidin@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr//sabidin>

Address: Karadeniz Teknik Üniversitesi Tıp Fakültesi Biyofizik Abd, 61080 Trabzon

International Researcher IDs

ScholarID: TRJ2FzMAAAAJ

ORCID: 0000-0002-5843-5539

Publons / Web Of Science ResearcherID: AAR-4191-2020

ScopusID: 14032692700

Yoksis Researcher ID: 37250

Education Information

Doctorate, Ruhr-Universitaet Bochum, Tıp Fakültesi, Nörofizyoloji, Germany 2003 - 2008

Postgraduate, Akdeniz University, Institute Of Health Sciences , Biyofizik Abd, Turkey 2000 - 2003

Undergraduate, Middle East Technical University, Fen Edebiyat Fakültesi, Biyoloji Bölümü, Turkey 1995 - 2000

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Effects of Repetitive Transcranial Magnetic Stimulation on Visual Evoked Potentials, EEG and Immediate Early Gene Expression, Ruhr-Universitaet Bochum, Tıp Fakültesi, Nörofizyoloji, 2008

Postgraduate, Sülfat ve Stresin Görsel Uyarılma Potansiyelleri Üzerine Etkilerinin Araştırılması, Akdeniz University, Tıp Fakültesi, Biyofizik Abd, 2003

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biophysics, Human Physiology, Neurophysiology

Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Tıp Fakültesi, Temel Tıp, 2010 - 2014

Lecturer PhD, Karadeniz Technical University, Tıp Fakültesi, Temel Tıp, 2009 - 2010

Research Assistant, Akdeniz University, Faculty Of Medicine, Temel Tıp Bilimleri, 2001 - 2003

Courses

biyofizik, Undergraduate, 2016 - 2017

Fizik-Biyofizik, Undergraduate, 2016 - 2017

Fizik-Biyofizik, Undergraduate, 2014 - 2015

Fizik-Biyofizik, Undergraduate, 2014 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Title: A Boron-Chelating Piperazine-Tethered Schiff Base Can Modulate Excitability in Brain Slices in a Specific Frequency Range**
BAŞOĞLU H., DEĞİRMENCİOĞLU İ., ÖZTÜRK H., Yorulmaz N., ABİDİN S., ABİDİN İ.
ChemistrySelect, vol.8, no.48, 2023 (SCI-Expanded)
- II. **Sensory-motor performance and neurochemical effects in the cerebral cortex of brain-derived neurotrophic factor heterozygous mice fed a high-cholesterol diet.**
KESER H., Girit O. B., Abidin S., Bilgin M. D., ALVER A., ABİDİN İ.
Acta neurobiologiae experimentalis, vol.83, no.1, pp.1-9, 2023 (SCI-Expanded)
- III. **Fisetin decreases the duration of ictal-like discharges in mouse hippocampal slices**
Ozturk H., Basoglu H., Yorulmaz N., Aydin-Abidin S., Abidin I.
JOURNAL OF BIOLOGICAL PHYSICS, vol.48, no.3, pp.355-368, 2022 (SCI-Expanded)
- IV. **The regulation of adipokines related to obesity and diabetes is sensitive to BDNF levels and adipose tissue location**
Akca I. I., Bodur A., Kahraman C., Abidin İ., Abidin S., Alver A.
HORMONES-INTERNATIONAL JOURNAL OF ENDOCRINOLOGY AND METABOLISM, vol.21, no.2, pp.295-303, 2022 (SCI-Expanded)
- V. **Phoenixin-14 reduces the frequency of interictal-like events in mice brain slices**
KALKAN Ö. F., ŞAHİN Z., ÖZTÜRK H., KESER H., ABİDİN S., ABİDİN İ.
EXPERIMENTAL BRAIN RESEARCH, vol.239, no.9, pp.2841-2849, 2021 (SCI-Expanded)
- VI. **The TrkB agonist 7,8-dihydroxyflavone improves sensory-motor performance and reduces lipid peroxidation in old mice.**
Keser H., Doğramacı Ş., Şahin E., Sağlam N., Erdem M., Alver A., Aydin-Abidin S.
General physiology and biophysics, vol.39, no.5, pp.471-479, 2020 (SCI-Expanded)
- VII. **Renal response to tunicamycin-induced endoplasmic reticulum stress in BDNF heterozygous mice**
CIRRIK S., HACIOĞLU G., Ayyildiz S. N., TEZCAN B., ABİDİN İ., Aydin-Abidin S., NOYAN T.
ADVANCES IN CLINICAL AND EXPERIMENTAL MEDICINE, vol.28, no.9, pp.1161-1170, 2019 (SCI-Expanded)
- VIII. **Endoplasmic reticulum stress in the livers of BDNF heterozygous knockout mice**
CıRRİK S., HACIOGLU G., Abidin İ., Aydin-Abidin S., NOYAN T.
ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, vol.125, no.4, pp.378-386, 2019 (SCI-Expanded)
- IX. **7,8-Dihydroxyflavone potentiates ongoing epileptiform activity in mice brain slices**
Aydin-Abidin S., Abidin İ.
NEUROSCIENCE LETTERS, vol.703, pp.25-31, 2019 (SCI-Expanded)
- X. **Effect of a high sucrose and high fat diet in BDNF (plus /-) mice on oxidative stress markers in adipose tissues**
Bodur A., Ince I., Kahraman C., Abidin İ., Aydin-Abidin S., Alver A.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.665, pp.46-56, 2019 (SCI-Expanded)
- XI. **Neuronal excitability and spontaneous synaptic transmission in the entorhinal cortex of BDNF heterozygous mice**
Abidin İ., Aydin-Abidin S., MITTMANN T.
NEUROSCIENCE LETTERS, vol.690, pp.69-75, 2019 (SCI-Expanded)
- XII. **Brain-derived neurotropic factor (BDNF) heterozygous mice are more susceptible to synaptic protein loss in cerebral cortex during high fat diet**
Abidin İ., Aydin-Abidin S., BODUR A., İNCE İ., Alver A.

ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, vol.124, no.5, pp.442-447, 2018 (SCI-Expanded)

- XIII. **Evaluation of the Role of Chronic Daily Melatonin Administration and Pinealectomy on Penicillin-Induced Focal Epileptiform Activity and Spectral Analysis of ECoG in Rats: An In Vivo Electrophysiological Study**
Yildirim M., AYDIN-ABIDIN S., ABİDİN İ., Akca M., CANPOLAT S., CANSU A.
NEUROCHEMICAL RESEARCH, vol.38, no.8, pp.1672-1685, 2013 (SCI-Expanded)
- XIV. **Chronic application of topiramate and carbamazepine differentially affects the EEG and penicillin-induced epileptiform activity in rats**
Aydin-Abidin S., Yildirim M., ABİDİN İ., CANSU A.
NEUROLOGICAL RESEARCH, vol.34, no.3, pp.246-251, 2012 (SCI-Expanded)
- XV. **Comparison of focally induced epileptiform activities in C57BL/6 and BALB/c mice by using in vivo EEG recording**
Aydin-Abidin S., Yildirim M., Abidin I., Akca M., CANSU A.
NEUROSCIENCE LETTERS, vol.504, no.2, pp.165-169, 2011 (SCI-Expanded)
- XVI. **Penicillin induced epileptiform activity and EEG spectrum analysis of BDNF heterozygous mice: An in vivo electrophysiological study**
ABİDİN İ., Yildirim M., AYDIN-ABIDIN S., KALAY E., CANSU A., Akca M., MITTMANN T.
BRAIN RESEARCH BULLETIN, vol.86, pp.159-164, 2011 (SCI-Expanded)
- XVII. **Theta burst and conventional low-frequency rTMS differentially affect GABAergic neurotransmission in the rat cortex**
Trippe J., Mix A., Aydin-Abidin S., Funke K., Benali A.
EXPERIMENTAL BRAIN RESEARCH, vol.199, pp.411-421, 2009 (SCI-Expanded)
- XVIII. **Locus Coeruleus Activation Facilitates Memory Encoding and Induces Hippocampal LTD that Depends on beta-Adrenergic Receptor Activation**
Lemon N., Aydin-Abidin S., Funke K., Manahan-Vaughan D.
CEREBRAL CORTEX, vol.19, no.12, pp.2827-2837, 2009 (SCI-Expanded)
- XIX. **High- and low-frequency repetitive transcranial magnetic stimulation differentially activates c-Fos and zif268 protein expression in the rat brain**
Aydin-Abidin S., Trippe J., Funke K., EYSEL U. T., Benali A.
EXPERIMENTAL BRAIN RESEARCH, vol.188, no.2, pp.249-261, 2008 (SCI-Expanded)
- XX. **Effects of repetitive TMS on visually evoked potentials and EEG in the anaesthetized cat: dependence on stimulus frequency and train duration**
ABİDİN S., Moliadze V., Eysel U. T., Funke K.
JOURNAL OF PHYSIOLOGY-LONDON, vol.574, no.2, pp.443-455, 2006 (SCI-Expanded)
- XXI. **Changes in visual evoked potentials, lipid peroxidation and antioxidant enzymes in rats exposed to restraint stress: effect of L-carnitine.**
Derin N., ABİDİN S., Yargıçoğlu P., Agar A.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.116, no.3, pp.205-221, 2006 (SCI-Expanded)
- XXII. **The effect of chronic restraint stress and sulfite on visual evoked potentials (VEPs): Relation to lipid peroxidation**
Aydin S., yargıçoğlu p., DERIN N., Aliciguzel Y., Abidin I., AGAR A.
FOOD AND CHEMICAL TOXICOLOGY, vol.43, no.7, pp.1093-1101, 2005 (SCI-Expanded)
- XXIII. **The effect of chronic restraint stress on spatial learning and memory: relation to oxidant stress.**
Abidin İ., Yargıçoğlu P., Ağar A., Gümüşlü S., ABİDİN S., Öztürk O., Şahin E.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.114, no.5, pp.683-699, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effects of housing conditions on stress, depressive like behavior and sensory-motor performances of C57BL/6 mice**

Abidin İ., Keser H., Şahin E., Öztürk H., Başoğlu H., Alver A., Aydın-Abidin S.

LABORATORY ANIMAL RESEARCH, vol.40, no.1, 2024 (ESCI)

- II. **Investigation of In Silico Properties of [5-Hydroxy-7-(Pentyloxy)-2-Phenyl-4h-Chromen-4-One] molecule and its Effects on In-Vitro Epileptiform Activation in Brain Slices**
BAŞOĞLU H., ÖZTÜRK H., YORULMAZ N., ABİDİN S., ABİDİN İ.
Acta Medica Nicomedia, vol.6, 2023 (Peer-Reviewed Journal)
- III. **Flavonoidlerin Beyin Fonksiyonu Üzerindeki Potansiyellerini Keşfetmek: Üç Fenolik Bileşiğin Beyin Elektriksel Aktivitesi Üzerindeki Etkileri**
ÖZTÜRK H., BAŞOĞLU H., ABİDİN S., ABİDİN İ.
Harran Üniversitesi Tıp Fakültesi Dergisi, 2023 (Peer-Reviewed Journal)
- IV. **Investigation of The Effects of Endogenous BDNF on Kainic Acid Induced Seizures**
Abidin S., Keser H., Şahin E., Alver A., Abidin İ.
Farabi Tıp Dergisi, vol.2, no.1, pp.8-15, 2023 (Peer-Reviewed Journal)
- V. **L-Theanine Reduces Epileptiform Activity In Brain Slices**
BAŞOĞLU H., ÖZTÜRK H., KESER H., ABİDİN S., ABİDİN İ.
Akdeniz Tıp Dergisi, vol.8, pp.121-127, 2022 (Peer-Reviewed Journal)
- VI. **Effects of BDNF deficiency and endoplasmic reticulum stress on the GABAergic system**
Hacıoğlu G., Cırrık S., Yüzüak H., Abidin S., Abidin İ.
Pamukkale Tıp Dergisi, vol.14, no.4, pp.2, 2021 (Peer-Reviewed Journal)
- VII. **Apoptotic Effects of Reduced Brain Derived Neurotrophic Factor (BDNF) on Mouse Liver and Kidney**
Tezcan B., Hacıoğlu G., ABİDİN S., ABİDİN İ.
Dicle Tıp Dergisi, vol.44, no.4, pp.315-324, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Kronik Beyin Kaynaklı Nörotrofik Faktör (BDNF) eksikliğinin duyuşal motor performanslara etkisi**
KESER H., ABİDİN S., ABİDİN İ.
17. Ulusal Sinirbilim Kongresi, 4 - 07 April 2019
- II. **BDNF heterozigot fare hipokampus ve entorhinal korteksinde yüksek frekanslı dalgalanmaların incelenmesi.**
ABİDİN İ., ABİDİN S.
17. Ulusal Sinirbilim Kongresi, 4 - 07 April 2019
- III. **Tirozin Kinaz-B reseptör agonisti 7,8-dihidroksiflavon'un fare beyin kesitlerinde oluşturulan epilepsi benzeri aktiviteye etkileri.**
ABİDİN İ., ABİDİN S.
17. Ulusal Sinirbilim Kongresi, 4 - 07 April 2019
- IV. **BDNF eksikliğinin ve endoplazmik retikulum stresinin GABAerjik sistem üzerine etkiler**
HACIOĞLU DERVİŞOĞLU G., CIRRIK S., ABİDİN S., ABİDİN İ.
17. Ulusal Sinirbilim Kongresi, Turkey, 4 - 07 April 2019
- V. **Evaluation of FNDC5/irisin levels of BDNF heterozygous mice**
DOĞRAMACI Ş., ERDEM M., ALVER A., MENTEŞE A., ABİDİN S., BODUR A., KARAHAN S. C.
FEBS OPEN BIO, 1 - 05 July 2018
- VI. **Azaltılmış beyin kaynaklı nörotrofik faktörün (BDNF), fare karaciğer ve böbrek dokusuna apoptotik etkileri**
TEZCAN B., HACIOĞLU DERVİŞOĞLU G., ABİDİN S., ABİDİN İ.
14. Ulusal Histoloji ve Embriyoloji Kongresi 10-13 Mayıs 2018, Antalya - Türkiye, Turkey, 10 - 13 May 2018
- VII. **BDNF heterozigot farenin entorhinal korteksinde spontan sinaptik geçiş özellikleri.**
ABİDİN İ., ABİDİN S.
15. Ulusal Sinirbilim Kongresi, 7 - 10 May 2017

Metrics

Publication: 41

Citation (WoS): 388

Citation (Scopus): 407

H-Index (WoS): 9

H-Index (Scopus): 10