

Prof. FILIZ ONAT

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Marmara University, Institute Of Health Sciences, Farmakoloji (Bütünleşik Dr), Turkey 1988 - 1992

Undergraduate, İstanbul University-Cerrahpaşa, Cerrahpasa Faculty Of Medicine, Cerrahpaşa Tıp Pr., Turkey 1979 - 1985

Research Areas

Health Sciences

Academic Titles / Tasks

Professor, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Medical Sciences, 2020 - Continues

Professor, Marmara University, 2005 - 2020

Professor, Marmara University, School Of Medicine, Internal Medical Sciences, 1992 - 2020

Academic and Administrative Experience

Komisyon Üyesi, Türkiye İlaç ve Tıbbi Cihaz Kurumu, Türkiye İlaç ve Tıbbi Cihaz Kurumu, 2022 - Continues

Head of Department, Acibadem Mehmet Ali Aydınlar University, Graduate School Of Health Sciences, The Department Of Neuroscience, 2021 - Continues

Head of Department, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Medical Sciences, 2021 - Continues

Ethics Committee Member, Marmara University, Faculty Of Dentistry, 2015 - Continues

Marmara University, 2017 - 2020

Courses

MED 214: Growth Development and Endocrine Disorders, Undergraduate, 2022 - 2023, 2021 - 2022

MED 116: Blood-Immunity and Cancer, Undergraduate, 2022 - 2023

MED 212: Nervous System and Related Diseases, Undergraduate, 2022 - 2023, 2021 - 2022

Doktora Bilimlerinde Proje Hazırlama, Doctorate, 2022 - 2023

MED 315: Gastrointestinal System and Related Diseases , Undergraduate, 2022 - 2023, 2021 - 2022

Sinir Bilimlerinde Proje Hazırlama , Doctorate, 2022 - 2023

Tez Çalışması, Doctorate, 2022 - 2023
MED 312: Urogenital System and Related Disorders, Undergraduate, 2022 - 2023, 2021 - 2022
SBD649 Santral sinir sistemi gelişiminde progenitörlerin rolü, Doctorate, 2022 - 2023
MED 213: Musculoskeletal System and Related Disorders , Undergraduate, 2022 - 2023, 2021 - 2022
Pharmacotherapy in bacterial infections: penicillines, Undergraduate, 2022 - 2023, 2021 - 2022
Epilepsinin Deneysel Modelleri, Doctorate, 2022 - 2023
Pharmacotherapy of diabetes mellitus, Undergraduate, 2021 - 2022
Introduction to CNS pharmacology, Undergraduate, 2021 - 2022
History of Neuroscience, Undergraduate, 2021 - 2022
Pharmacotherapy in bacterial infections: cephalosporins, Undergraduate, 2022 - 2023, 2021 - 2022
SBD691 Doktora yeterliliğe hazırlık, Doctorate, 2022 - 2023
Pharmacotherapy in epilepsy, Undergraduate, 2021 - 2022
Tez Planlama ve Yönetimi, Doctorate, 2022 - 2023
MED 311: Cardiovascular System and Related Disorders, Undergraduate, 2022 - 2023, 2021 - 2022
Deneysel Farmakoloji Araştırma Teknikleri, Doctorate, 2022 - 2023
Pharmacotherapy of psychosis, Undergraduate, 2021 - 2022
Nörotransmitter Sistemleri, Doctorate, 2022 - 2023
Sinir Bilimi Tarihi: Nobel Ödülüne Yol Açanlar, Doctorate, 2022 - 2023
MED 211: Microorganisms and Infection, Undergraduate, 2022 - 2023, 2021 - 2022
Temel Nörofarmakoloji , Doctorate, 2021 - 2022
Sinaptik Fizyolojinin Hücresel Temeli ve Farmakolojisi , Doctorate, 2021 - 2022
Pharmacotherapy in venous thromboembolic disease, Undergraduate, 2021 - 2022
Nörobiyolojide Laboratuvar Teknikleri, Doctorate, 2021 - 2022
Nörobilim Tarihi, Undergraduate, 2020 - 2021
Epilepsi Penceresinden Nörobilim Felsefesi, Doctorate, 2014 - 2015

Advising Theses

Onat F., Epileptogenez sürecindeki genetik absans epilepsili sıçanlarda meydana getirilen nigro-striatal yolka lezyonunun immünohistimyasal, davranışsal ve nöbet parametreleri açısından incelenmesi, Expertise In Medicine, Z.Nur(Student), 2020
Onat F., Epilepsi ve Parkinson Hastalığı Birlikteliğine Deneysel Yaklaşımlar, Doctorate, T.Eryiğit(Student), 2019
Onat F., Hiperpolarizasyonla Aktive Olan Siklik Nükleotid Kapılı Kanalların (HCN) Absans Epilepsi Patofizyolojisindeki Rolünün Genetik Absans Epilepsili Sıçanlarda (GAERS) İncelenmesi, Doctorate, M.YAVUZ(Student), 2018
Onat F., Yirmi günlük genetik absans epilepsili sıçanlarda kindling sürecinin kronik dönemde nöbetler üzerine etkilerinin incelenmesi, Expertise In Medicine, S.İnce(Student), 2017
Onat F., Wistar sıçanlarda gama-butiro-lakton uygulanması ile deneysel absans epilepsi modeli oluşturulması ve bu modelde, beyinde oluşan morfolojik değişimlerin incelenmesi, Postgraduate, T.Eryiğit(Student), 2012
Onat F., Wistar sıçanlarda gama butiro-lakton uygulanması ile deneysel absans epilepsi modeli oluşturulması ve bu modelde beyinde oluşan morfolojik değişimlerin incelenmesi, Postgraduate, T.KARAMAHMUTOĞLU(Student), 2012
Onat F., Epilepsili hastalarda lamotrijin tedavisi ile genetik polimorfizm ilişkisi, Expertise In Medicine, M.GÜLÇEBİ(Student), 2010
Onat F., Bakır G., Genetik absans epilepsili sıçanlarda Kindling sürecinde talamo-kortikal döngünün araştırılması, Doctorate, N.ÇARÇAK(Student), 2010
Onat F., Substantia nigra pars retikülata bölgesinin spontan absans epilepsili sıçanlarda limbik epilepsi direncindeki rolü, Postgraduate, S.KETENCİ(Student), 2010
Onat F., Genetik absans epilepsili sıçanlarda temporal lob epilepsisinin farmakolojik temellerinin araştırılması, Expertise In Medicine, A.Gurbanova(Student), 2008
Onat F., Ateş N., Genetik absans epilepsili sıçanlarda kindling nöbet duyarlılığında korteksin rolü, Doctorate, Ö.AKMAN(Student), 2007

Onat F., Fenitoin tedavisinde genetik polimorfizmin önemi, Doctorate, A.Ergün(Student), 2006
Onat F., 20, 30 ve 60 Günlük Wistar Kontrol ve GAERS Sıçanlarda Kindling Sürecinin İncelenmesi, Postgraduate, N.ÇARÇAK(Student), 2005
Onat F., Epilepsi hastalarında otonomik fonksiyon bozukluğu ve QT dispersiyonu, Doctorate, Ç.Apaydın(Student), 2004
Onat F., Genetik absans epilepsi modelinde GABA'nın epileptik deşarj oluşumunda ve hipotalamus aracılı kardiyovasküler düzenlemedeki rolü, Doctorate, R.AKER(Student), 2000

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Acıbadem Mehmet Ali Aydınlar Üniversitesi, December, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Alpha-2a adrenergic receptor activation in genetic absence epilepsy: An absence status model?**
Yavuz M., Akkol S., Onat F.
EPILEPSIA OPEN, no.2, pp.534-547, 2024 (SCI-Expanded)
- II. **Antibody induced seizure susceptibility and impaired cognitive performance in a passive transfer rat model of autoimmune encephalitis**
Piskin S. A., YÜCEER H., Ulusoy C. A., ŞANLI E., Kucukali C. I., ONAT F., Tuzun E., Carcak N.
FRONTIERS IN IMMUNOLOGY, 2023 (SCI-Expanded)
- III. **Astrocytes as a target for therapeutic strategies in epilepsy: current insights**
ÇARÇAK YILMAZ N., ONAT F., Sitnikova E.
FRONTIERS IN MOLECULAR NEUROSCIENCE, 2023 (SCI-Expanded)
- IV. **Dexmedetomidine, an alpha 2A receptor agonist, triggers seizures unilaterally in GAERS during the pre-epileptic phase: does the onset of spike-and-wave discharges occur in a focal manner?**
Yavuz M., İyiköşker P., Mutlu N., Kiliçparlar S., Şalci Ö. H., Dolu G., Kaymakçılar E. N., Akkol S., Onat F.
FRONTIERS IN NEUROLOGY, vol.14, 2023 (SCI-Expanded)
- V. **Involvement of orexin type-2 receptors in genetic absence epilepsy rats**
Toplu A., Mutlu N., Erdeve E. T., SARIYILDIZ Ö., Celik M., Oz-Arslan D., Akman O., Molnar Z., Carcak N., ONAT F.
FRONTIERS IN NEUROLOGY, vol.14, 2023 (SCI-Expanded)
- VI. **Automatic detection of the spike-and-wave discharges in absence epilepsy for humans and rats using deep learning**
Baser O., YAVUZ M., Ugurlu K., ONAT F., Demirel B. U.
Biomedical Signal Processing and Control, vol.76, 2022 (SCI-Expanded)
- VII. **Pharmacokinetic characterization of favipiravir in patients with COVID-19**
GÜLHAN R., Eryuksel E., Oglu M. G. I., Culpan Y., Toplu A., KOCAKAYA D., TİGEN E., Sengel B. E., SİLİ U., Yildizeli S. O., et al.
BRITISH JOURNAL OF CLINICAL PHARMACOLOGY, vol.88, no.7, pp.3516-3522, 2022 (SCI-Expanded)
- VIII. **The effect of chronic treatment with sodium channel blocker lacosamide on early development of absence seizures in genetic absence epilepsy rats**
Carcak N., Karanfil C., Akat S., Akman O., ONAT F.
EPILEPSY RESEARCH, vol.182, 2022 (SCI-Expanded)
- IX. **Effects of in utero exposure to valproate or levetiracetam on the seizures and newborn histopathology of genetic absence epilepsy rats**
Kantarci B. C., Sanli A., Gavas S., Toplu A., Aski Z. N. T., KAYA Ö. T., Idrizoglu M. G., ERCAN F., Onat F.
NEUROSCIENCE LETTERS, vol.776, 2022 (SCI-Expanded)
- X. **Prolongation of absence seizures and changes in serotonergic and dopaminergic neurotransmission by nigrostriatal pathway degeneration in genetic absence epilepsy rats.**
Tugba E. K., Medine G. I. O., Ozlem A., Deniz K., ONAT F.

Pharmacology, biochemistry, and behavior, vol.213, pp.173317, 2022 (SCI-Expanded)

- XI. **Decreased Hyperpolarization-Activated Cyclic Nucleotide-Gated Channel 2 Activity in a Rat Model of Absence Epilepsy and the Effect of ZD7288, an Ih Inhibitor, on the Spike-and-Wave Discharges.**
Yavuz M., Aydın Omay B., Carcak N., Onat F.
Pharmacology, vol.107, no.3-4, pp.227-234, 2022 (SCI-Expanded)
- XII. **Comparison of rotational behaviour in Wistar and genetic absence epilepsy rats injected with 6-Hydroxydopamine**
Toplu A., Culpan Y., Yavuz M., Turgan Aşık Z. N., Karamahmutoglu T., Gülçebi İdriz Oğlu M., Gülhan R., Onat F.
EPILEPSIA, vol.62, pp.96, 2021 (SCI-Expanded)
- XIII. **Correlation between weight and apomorphine induced rotation in genetic absence epilepsy rats from strasbourg**
Culpan Y., Karamahmutoglu T., Turgan Aşık Z. N., Yavuz M., Toplu A., Gülçebi İdriz Oğlu M., Gülhan R., Onat F.
EPILEPSIA, vol.62, pp.85, 2021 (SCI-Expanded)
- XIV. **Comparison of tyrosine hydroxylase and parvalbumin immunoreactivity in striatum and substantia nigra**
Turgan Aşık Z. N., Culpan Y., Toplu A., Yavuz M., Kirazlı Ö., Gülçebi İdriz Oğlu M., Sehirli U., Gülhan R., Onat F.
EPILEPSIA, vol.62, pp.103, 2021 (SCI-Expanded)
- XV. **In vitro effects of antiseizure drugs on lacosamide concentration at hepatic metabolism level**
Yılmaz Göler A. M., Altinoluk T., Culpan Y., Selalmaz Y., Onat F., Gülhan R., Gülçebi İdriz Oğlu M.
EPILEPSIA, vol.62, pp.162, 2021 (SCI-Expanded)
- XVI. **Climate change and epilepsy: Insights from clinical and basic science studies**
Gulcebi M., Bartolini E., Lee O., Lisgaras C. P., Onat F., Mifsud J., Striano P., Vezzani A., Hildebrand M. S., Jimenez-Jimenez D., et al.
EPILEPSY & BEHAVIOR, vol.116, 2021 (SCI-Expanded)
- XVII. **Neurogenesis is Enhanced in Young Rats with Genetic Absence Epilepsy: An Immuno-electron Microscopic Study**
KAYA Ö. T., Moore C., Meshul C. K., Gursoy D., Onat F., ŞİRVANCI S.
TURKISH NEUROSURGERY, vol.31, no.4, pp.623-633, 2021 (SCI-Expanded)
- XVIII. **Ultrastructural investigation of synaptic alterations in the rat hippocampus after irradiation and hyperthermia**
Erkanli Senturk G., KAYA Ö. T., ŞİRVANCI S., İŞLER C., Kemerdere R., ULU M. O., Umay C., Onat F., Ozkara C., Uzan M., et al.
ULTRASTRUCTURAL PATHOLOGY, vol.44, no.4-6, pp.372-378, 2020 (SCI-Expanded)
- XIX. **Ultrastructural GABA immunogold labeling in the substantia nigra pars reticulata of kindled genetic absence epilepsy rats**
ŞİRVANCI S., AKAKIN D., Idrizoglu M. G., KAYA Ö. T., KARAMAHMUTOĞLU T., Asik Z. N. T., Onat F.
ULTRASTRUCTURAL PATHOLOGY, vol.44, no.4-6, pp.379-386, 2020 (SCI-Expanded)
- XX. **Effect of U-92032, T-Type Ca(2+)Channel Blocker, on Rats with Genetic Absence Epilepsy**
YANANLI H. R., Demirkapu M. J., Sakalli H. E., GÜLHAN R., Onat F.
PHARMACOLOGY, vol.105, no.9-10, pp.561-567, 2020 (SCI-Expanded)
- XXI. **T-Type Ca²⁺ Channel Blocker, on Rats with Genetic Absence Epilepsy**
Onat F., Gülhan R., Demirkapu M. J.
Pharmacology, vol.26, pp.1-7, 2020 (SCI-Expanded)
- XXII. **Relationships between astrocytes and absence epilepsy in rat: An experimental study**
Cavdar S., Kuvvet Y., Sur-Erdem I., Ozgur M., Onat F.
NEUROSCIENCE LETTERS, vol.712, 2019 (SCI-Expanded)
- XXIII. **Do the Dento-Thalamic Connections of Genetic Absence Epilepsy Rats from Strasbourg Differ from Those of Control Wistar Rats?**
Bay H. H., Ozkan M., Onat F., Cavdar S.
BRAIN CONNECTIVITY, vol.9, no.9, pp.703-710, 2019 (SCI-Expanded)
- XXIV. **The effect of prenatal and postnatal caffeine exposure on pentylenetetrazole induced seizures in the**

non-epileptic and epileptic offsprings

Yavuz M., Albayrak N., Ozgur M., Oglu M. G. I., Cavdar S., Onat F.

NEUROSCIENCE LETTERS, vol.713, 2019 (SCI-Expanded)

- XXV. **Experimental Parkinson Disease (PD) Alters Severity of Colitis in Rats**
Secil F., CAN H. B., Karakoc H. F., Dalgic N., Boyukyilmaz S., KARAMAHMUTOĞLU T., ÖZDEMİR Z. B., Arabaci S., Sen L. S., Karagoz A., et al.
ACTA PHYSIOLOGICA, vol.227, pp.105, 2019 (SCI-Expanded)
- XXVI. **Ca(v)3.2 T-type calcium channel mutation influences kindling-induced thalamic neuronal firing patterns in Genetic Absence Epilepsy Rats From Strasbourg**
ÇARÇAK YILMAZ N., Ali I., Powell K., Zheng T., Onat F., O'Brien T. J.
EPILEPSIA, vol.60, no.7, pp.1378-1386, 2019 (SCI-Expanded)
- XXVII. **Thalamic branches of corticofugal axons from view of a critical eye and great mentor, Ray Guillery**
Onat F., Oglu M. G. I., Cavdar S.
EUROPEAN JOURNAL OF NEUROSCIENCE, vol.49, no.8, pp.964-968, 2019 (SCI-Expanded)
- XXVIII. **Differences in Neurodegeneration Between Kainic Acid-Injected GAERS and Wistar Rats**
ŞEHİRLİ Ü. S., KİRAZLI Ö., Tezcan K., Sakalli E., Onat F.
TURKISH NEUROSURGERY, vol.29, no.4, pp.478-485, 2019 (SCI-Expanded)
- XXIX. **The effect of serum levetiracetam concentrations on therapeutic response and IL1-beta concentration in patients with epilepsy**
Gulcebi M. I., Kendirli T., Turgan Z. A., Patsalos P. N., ONAT F.
EPILEPSY RESEARCH, vol.148, pp.17-22, 2018 (SCI-Expanded)
- XXX. **Suppressive effect of Rho-kinase inhibitors Y-27632 and fasudil on spike-and-wave discharges in genetic absence epilepsy rats from Strasbourg (GAERS)**
Carcak N., Yavuz M., Karamahmutoglu T. E., Kurt A. H., Kucuk M. U., Onat F., Buyukafsar K.
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.391, no.11, pp.1275-1283, 2018 (SCI-Expanded)
- XXXI. **Comparison of cerebral ventricular volumes and cortical thicknesses in normal rats and Genetic Absence Epilepsy (GAERS): A developmental study**
KİRAZLI Ö., Bay H. H., Cakmak Y. O., ONAT F., Cavdar S.
INTERNATIONAL JOURNAL OF DEVELOPMENTAL NEUROSCIENCE, vol.68, pp.98-105, 2018 (SCI-Expanded)
- XXXII. **Suppression of Hyperpolarization-Activated Cyclic Nucleotide-Gated Channel Function in Thalamocortical Neurons Prevents Genetically Determined and Pharmacologically Induced Absence Seizures**
David F., ÇARÇAK YILMAZ N., Furdan S., Onat F., Gould T., Meszaros A., Di Giovanni G., Hernandez V. M., Chan C. S., Lorincz M. L., et al.
JOURNAL OF NEUROSCIENCE, vol.38, no.30, pp.6615-6627, 2018 (SCI-Expanded)
- XXXIII. **Prelimbic Cortex Deep Brain Stimulation Reduces Binge Size in a Chronic Binge Eating Rat Model**
Sarica C., Ozkan M., Bay H. H., ŞEHİRLİ Ü. S., ONAT F., ZİYAL M. İ.
STEREOTACTIC AND FUNCTIONAL NEUROSURGERY, vol.96, no.1, pp.33-39, 2018 (SCI-Expanded)
- XXXIV. **WONOEP appraisal: Biomarkers of epilepsy-associated comorbidities**
Ravizza T., ONAT F., Brooks-Kayal A. R., Depaulis A., Galanopoulou A. S., Mazarati A., Numis A. L., Sankar R., Friedman A.
EPILEPSIA, vol.58, no.3, pp.331-342, 2017 (SCI-Expanded)
- XXXV. **A developmental study of glutamatergic neuron populations in the ventrobasal and the lateral geniculate nucleus of the thalamus: Comparing Genetic Absence Rats from Strasbourg (GAERS) and normal control wistar rats**
Kirazhi O., Caydar S., Yildizel S., ONAT F., Kaptanoglu E.
INTERNATIONAL JOURNAL OF DEVELOPMENTAL NEUROSCIENCE, vol.56, pp.35-41, 2017 (SCI-Expanded)
- XXXVI. **Comparing glutamatergic neuron population in the mediodorsal thalamic nucleus of genetic absence epilepsy rats from strasbourg (GAERS) and normal control Wistar rats**
Cavdar S., Ozgur M., KİRAZLI Ö., Karahuseyinoglu S., Onat F.
JOURNAL OF CHEMICAL NEUROANATOMY, vol.77, pp.93-99, 2016 (SCI-Expanded)

- XXXVII. **Increased inhibitory synaptic activity in the hippocampus (CA1) of genetic absence epilepsy rats: Relevance of kindling resistance**
ÇARÇAK YILMAZ N., DİLEKÖZ E., GÜLHAN R., Onur R., Onat F., SARA M. Y.
EPILEPSY RESEARCH, vol.126, pp.70-77, 2016 (SCI-Expanded)
- XXXVIII. **The Acute and Delayed Effects of Vagal Nerve Stimulation on an Absence Epilepsy Model in WAG/Rij**
Uyar R., Turk C. C., Isik N., KALELİOĞLU M., Onat F., ÖZEK Ö. M. M.
TURKISH NEUROSURGERY, vol.26, no.3, pp.352-356, 2016 (SCI-Expanded)
- XXXIX. **Potential drug-drug interactions in a medical intensive care unit of a university hospital**
GÜLÇEBİ İDRİZ OĞLU M., Kucukibrahimoglu E., Karaalp A., Sarikaya O., Demirkapu M., Onat F., GÖREN M. Z.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.46, no.3, pp.812-819, 2016 (SCI-Expanded)
- XL. **The role of the substantia nigra pars reticulata in kindling resistance in rats with genetic absence epilepsy**
Akman O., Gulcebi M. I., ÇARÇAK YILMAZ N., Ozatman S. K., Eryigit T., Moshe S. L., Galanopoulou A. S., Onat F.
EPILEPSIA, vol.56, no.11, pp.1793-1802, 2015 (SCI-Expanded)
- XLI. **The effect of polymorphic metabolism enzymes on serum phenytoin level**
Ozkaynakci A., Gulcebi M. I., Ergec D., Ulucan K., Uzan M., ÖZKARA Ç., Guney I., ONAT F.
NEUROLOGICAL SCIENCES, vol.36, no.3, pp.397-401, 2015 (SCI-Expanded)
- XLII. **Animal models of absence epilepsies: What do they model and do sex and sex hormones matter?**
van Luijtelaaar G., Onat F., Gallagher M. J.
NEUROBIOLOGY OF DISEASE, vol.72, pp.167-179, 2014 (SCI-Expanded)
- XLIII. **Proteomic changes in the cortex membrane fraction of genetic absence epilepsy rats from Strasbourg**
Yuce-Dursun B., DANIŞ Ö., DEMİR S., OGAN A., Onat F.
JOURNAL OF INTEGRATIVE NEUROSCIENCE, vol.13, no.4, pp.633-644, 2014 (SCI-Expanded)
- XLIV. **Seizure expression, behavior, and brain morphology differences in colonies of Genetic Absence Epilepsy Rats from Strasbourg**
Powell K. L., Tang H., Ng C., Guillemain I., Dieuset G., Dezsi G., ÇARÇAK YILMAZ N., Onat F., Martin B., O'Brien T. J., et al.
EPILEPSIA, vol.55, no.12, pp.1959-1968, 2014 (SCI-Expanded)
- XLV. **Electroencephalographic and behavioral effects of intracerebroventricular or intraperitoneal injections of toxic honey extract in adult Wistar rats and GAERS**
Kuru P., Torun M., Halac H. M., Temiz G., Iskender E., KARAMAHMUTOĞLU T., Idrizoglu M. G., Onat F.
NEUROLOGICAL SCIENCES, vol.35, no.12, pp.1903-1908, 2014 (SCI-Expanded)
- XLVI. **Investigating local and long-range neuronal network dynamics by simultaneous optogenetics, reverse microdialysis and silicon probe recordings in vivo**
Taylor H., Schmiedt J. T., ÇARÇAK YILMAZ N., Onat F., Di Giovanni G., Lambert R. C., Leresche N., Crunelli V., David F.
JOURNAL OF NEUROSCIENCE METHODS, vol.235, pp.83-91, 2014 (SCI-Expanded)
- XLVII. **Comparison of numbers of interneurons in three thalamic nuclei of normal and epileptic rats**
Cavdar S., Bay H. H., Yildiz S. D., AKAKIN D., ŞİRVANCI S., Onat F.
NEUROSCIENCE BULLETIN, vol.30, no.3, pp.451-460, 2014 (SCI-Expanded)
- XLVIII. **The effect of amygdala kindling on neuronal firing patterns in the lateral thalamus in the GAERS model of absence epilepsy**
ÇARÇAK YILMAZ N., Zheng T., Ali I., Abdullah A., French C., Powell K. L., Jones N. C., van Raay L., Rind G., Onat F., et al.
EPILEPSIA, vol.55, no.5, pp.654-665, 2014 (SCI-Expanded)
- XLIX. **Comparing GABAergic cell populations in the thalamic reticular nucleus of normal and genetic absence epilepsy rats from Strasbourg (GAERS)**
Cavdar S., Bay H. H., KİRAZLI Ö., Cakmak Y. O., Onat F.
NEUROLOGICAL SCIENCES, vol.34, no.11, pp.1991-2000, 2013 (SCI-Expanded)
- L. **Chemical composition and biological activities of extracts from an endemic Salvia cilicica Boiss**
TAN N., ŞEN B., Onat F., Carcak N., Specker E., Tan E.

PLANTA MEDICA, vol.79, no.13, pp.1222, 2013 (SCI-Expanded)

- LI. **Astrocytes and absence epilepsy**
Onat F.
BRITISH JOURNAL OF PHARMACOLOGY, vol.168, no.5, pp.1086-1087, 2013 (SCI-Expanded)
- LII. **The involvement of limbic structures in typical and atypical absence epilepsy**
Onat F., van Luijtelaar G., Nehlig A., Snead O. C.
EPILEPSY RESEARCH, vol.103, no.2-3, pp.111-123, 2013 (SCI-Expanded)
- LIII. **Topographical connections of the substantia nigra pars reticulata to higher-order thalamic nuclei in the rat**
Onat F.
Brain Research Bulletin, vol.87, no.2, pp.312-318, 2012 (SCI-Expanded)
- LIV. **Do the quantitative relationships of synaptic junctions and terminals in the thalamus of genetic absence epilepsy rats from Strasbourg (GAERS) differ from those in normal control Wistar rats**
Cavdar S., Hacıoglu H., Dogukan S. Y., Onat F.
NEUROLOGICAL SCIENCES, vol.33, no.2, pp.251-259, 2012 (SCI-Expanded)
- LV. **Synaptic organization of the rat thalamus: a quantitative study**
Cavdar S., Hacıoglu H., ŞİRVANCI S., KESKİNÖZ E. N., Onat F.
NEUROLOGICAL SCIENCES, vol.32, no.6, pp.1047-1056, 2011 (SCI-Expanded)
- LVI. **IL-1 beta is induced in reactive astrocytes in the somatosensory cortex of rats with genetic absence epilepsy at the onset of spike-and-wave discharges, and contributes to their occurrence**
Akin D., Ravizza T., Maroso M., ÇARÇAK YILMAZ N., Eryigit T., Vanzulli I., GÜLHAN R., Vezzani A., Onat F.
NEUROBIOLOGY OF DISEASE, vol.44, no.3, pp.259-269, 2011 (SCI-Expanded)
- LVII. **Glutamic Acid Decarboxylase Immunoreactivity in the Mossy Fiber Terminals of the Hippocampus of Genetic Absence Epileptic Rats**
ŞİRVANCI S., Canillioğlu Y., AKAKIN D., Midillioğlu S., Yildiz S. D., Onat F., San T.
TURKISH NEUROSURGERY, vol.21, no.4, pp.499-503, 2011 (SCI-Expanded)
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Memberships / Tasks in Scientific Organizations

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