

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, Cerrahpaşa Faculty Of Medicine, Cerrahpaşa Tıp Pr., Turkey 1979 - 1985

Foreign Languages

English, C2 Mastery

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 Releated Diseases, Undergraduate, 2022 - 2023, 2021 - 2022
Doktora Bilimlerinde Proje Hazırlama, Doctorate, 2022 - 2023
MED 315: Gastrointestinal System and Releated Diseases , Undergraduate, 2022 - 2023, 2021 - 2022
Sinir Bilimlerinde Proje Hazırlama , Doctorate, 2022 - 2023
Tez Çalışması, Doctorate, 2022 - 2023
MED 312: Urogenital System and Releated Disorders, Undergraduate, 2022 - 2023, 2021 - 2022
SBD649 Santral sinir sistemi gelişiminde progenitörlerin rolü, Doctorate, 2022 - 2023
MED 213: Musculoskeletal System and Releated 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 Releated 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., Absans epilepsili sıçanlarda T-tipi Ca^{2+} kanal protein ekspresyonunun araştırılması, Postgraduate, N.MUTLU(Student), 2024
Onat F., ALZHEİMER MODELİNDE DOKUNSAK UYARAN VEYA YÜZME EGZERSİZİ İLE BUNLARIN KOMBİNASYONLARININ OKSİDATİF STRES, İNFLAMASYON, AMİLOİD BETA, NÖROGENEZ VE NÖROTROFİK FAKTÖRLER İLE MOLEKÜLER SİNYALLERİ ÜZERİNE OLAN ETKİSİ, Doctorate, D.ASLAN(Student), 2023
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-butirolakton 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., Baktır G., Genetik absans epilepsili sıçanlarda Kindling sürecinde talamo-kortikal döngünün araştırılması, Doctorate, N.ÇARÇAK(Student), 2010

Onat F., Epilepsili hastalarda lamotrijin tedavisi ile genetik polimorfizm ilişkisi, Expertise In Medicine, M.GÜLÇEBİ(Student), 2010

Onat F., Substantia nigra pars reticulata 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 epilepsisi 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. **Extrasynaptic δ GABAA receptors mediate resistance to migraine-like phenotype in rats**
Alpay B., Cimen B., AKAYDIN E., ONAT F., Bolay H., SARA M. Y.
JOURNAL OF HEADACHE AND PAIN, vol.25, no.1, 2024 (SCI-Expanded)
- II. **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)
- III. **Favipiravir does not appear to be a major teratogen: Case series from Türkiye**
Ozen B., US Z., Toplu A., Vizdiklar C., Selalmaz Y., Culpan Y., Asik Z. T., KAŞKAL M., Acikgoz B. N., GÜLÇEBİ İDRİZ OĞLU M., et al.
JOURNAL OF GYNECOLOGY OBSTETRICS AND HUMAN REPRODUCTION, vol.53, no.1, 2024 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)

- IX. **Pharmacokinetic characterization of favipiravir in patients with COVID-19**
GÜLHAN R., Eryuksel E., Oglu M. G. I., Culpan Y., Toplu A., KOCAYAYA 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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- 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. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)

- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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., KIRAZLI Ö., Karahuseyinoglu S., Onat F.
JOURNAL OF CHEMICAL NEUROANATOMY, vol.77, pp.93-99, 2016 (SCI-Expanded)
- XXXIX. **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)
- XL. **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)
- XLI. **Potential drug-drug interactions in a medical intensive care unit of a university hospital**
GÜLÇEBİ İDRİZ OĞLU M., Kucukbrahimoglu 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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- 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. **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)
- XLVII. **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)
- XLVIII. **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)

- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **Astrocytes and absence epilepsy**
Onat F.
BRITISH JOURNAL OF PHARMACOLOGY, vol.168, no.5, pp.1086-1087, 2013 (SCI-Expanded)
- LIV. **The involvement of limbic structures in typical and atypical absence epilepsy**
Onat F., van Luijteleaer G., Nehlig A., Snead O. C.
EPILEPSY RESEARCH, vol.103, no.2-3, pp.111-123, 2013 (SCI-Expanded)
- LV. **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)
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Publication: 484

Citation (WoS): 1987

Citation (Scopus): 2049

H-Index (WoS): 25

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