

MELIS YAVUZ

ASST. PROF.

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International Researcher IDs

ScholarID: MqqA7g8AAAAJ

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ScopusID: 57203310080

Yoksis Researcher ID: 319766

Learning Knowledge

Doctorate

2013 - 2018

Marmara University, Institute Of Health Sciences, Farmakoloji (Dr), Turkey

Undergraduate

2012 - 2016

Okan Üniversitesi, İnsan Ve Toplum Bilimleri Fakültesi, Mütercim-Tercümanlık Pr. (İngilizce) (Tam Burslu), Turkey

Undergraduate

2010 - 2011

Freie Universitaet Berlin, Germany

Undergraduate

2006 - 2011

Ege University, Faculty Of Pharmacy, Eczacılık Pr., Turkey

Foreign Languages

Russian, A1 Beginner

English, C2 Mastery

French, A1 Beginner

German, C1 Advanced

Certificates, Courses and Trainings

Vocational Course, Araştırmacılar için Deney Hayvanları Kullanımına ait Eğitim, MARMARA ÜNİVERSİTESİ SÜREKLİ EGİTİM MERKEZİ, 2013

Dissertations

Doctorate, Hiperpolarizasyon ile aktive olan sıklik nukleotid kapılı kanalların (HCN) absans epilepsisi patofizyolojisindeki rolü, Marmara University, Sağlık Bilimleri Enstitüsü, Farmakoloji (Dr), 2018

Academic Titles / Tasks

Assistant Professor
2024 - Continues

Acibadem Mehmet Ali Aydinlar University, Graduate School Of Health Sciences,
The Department Of Neuroscience

Assistant Professor
2023 - Continues

Bogazici University, The Faculty of Arts and Sciences, Department of Translation
and Interpreting Studies

Assistant Professor
2020 - Continues

Acibadem Mehmet Ali Aydinlar University, Faculty Of Pharmacy, Pharmaceutical
Profession Sciences

Researcher
2019 - 2020

Marmara University, School Of Medicine, Internal Medical Sciences

Awards

1. Yavuz M., Onat F., Best Presentation award (1st Prize) among Oral Presentations, 26Th National And 1St International Pharmacology Congress, November 2021
2. Yavuz M., Aydin Omay B., Çarçak Yılmaz N., Akman Ö., Yananlı H. R., Onat F., Esat Eşkazan Basic Sciences Article Prize, Türk Epilepsi İle Savaş Derneği, May 2021
3. Yavuz M., Culpan Y., Turgan Aşık Z. N., Toplu A., Karamahmutoğlu T., Gülcemi İdriz Oğlu M., Gühan R., Onat F., Best Presentation Award (3rd), Beyin Araştırmaları Derneği İhsan Doğramacı Bilkent Üniversitesi, November 2020
4. Karakaya F. B., Yavuz M., Onat F., Şirvancı S., EMK 2019 Prof. Dr. Müberra UYGUN En iyi Poster Ödülü (3.lük), 24. Ulusal Elektron Mikroskopı Kongresi (Uluslararası Katılımlı), April 2019
5. Yavuz M., 13th European Congress on Epileptology Registration and Travel Award, International League Against Epilepsy, August 2018
6. Yavuz M., Selection to the ILAE Mentor/Mentee Programme 2018, International League Against Epilepsy, July 2018
7. Yavuz M., 7th Eilat International Educational Course: PHARMACOLOGICAL TREATMENT OF EPILEPSY /Bursary forcourse registration and accomodation, International League Against Epilepsy, October 2017
8. Yavuz M., Basketbol Turnuvası (2. lik), Ege Üniversitesi, June 2010

Scholarships

ÖSYM (%100), YOK, 2012 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

1. **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)
2. **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., Kılıçparlar S., Şalci Ö. H., Dolu G., Kaymakçılar E. N., Akkol S., Onat F.
FRONTIERS IN NEUROLOGY, vol.14, 2023 (SCI-Expanded)
3. **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)
4. 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., Aydin Omay B., Carcak N., Onat F.
Pharmacology, vol.107, no.3-4, pp.227-234, 2022 (SCI-Expanded)
 5. 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)
 6. 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)
 7. Histological analysis of the effects of thymoquinone on testicular damage in pentylenetetrazole-induced temporal lobe epilepsy model
Karakaya F. B., Yavuz M., ŞİRVANCI S.
ANDROLOGIA, vol.53, no.10, 2021 (SCI-Expanded)
 8. Striatal degeneration alters absence seizures during epileptogenesis: Is nigro-striatal pathway involved in spike-and-wave discharges?
Yavuz M., Toplu A., Culpan Y., Turgan Aşık Z. N., Karamahmutoglu T., Gülçebi İdriz Oğlu M., Gülhan R., Onat F.
EPILEPSIA, vol.62, pp.102, 2021 (SCI-Expanded)
 9. Comparison of thyrosine 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)
 10. Atipamezole, a specific alpha(2A) antagonist, suppresses spike-and-wave discharges and alters Ca²⁺/calmodulin-dependent protein kinase II in the thalamus of genetic absence epilepsy rats
Yavuz M., Aydin Omay B., Carcak N., Akman O., Raci Yananli H. R., Onat F.
EPILEPSIA, vol.61, pp.2825-2835, 2020 (SCI-Expanded)
 11. 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)
 12. 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)

Articles Published in Other Journals

1. Impact of Valproate and Levetiracetam Exposure on GAERS Behavior During Pregnancy
YAVUZ M., Kantarci B. C., ŞANLI A., GAVAŞ Ş., TURGAN AŞIK Z. N., KOYUNCUOĞLU T., KASIMAY ÇAKIR Ö., ONAT F.
Archives of epilepsy (Online), vol.29, pp.69-74, 2023 (ESCI)
2. Investigation of Neurogenesis in Kindled Wistar and Genetic Absence Epilepsy Rats
Kandemir C., Yavuz M., Karakaya F. B., KAYA Ö. T., ONAT F., ŞİRVANCI S.
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.12, no.3, pp.753-759, 2022 (ESCI)
3. Investigation of Neurogenesis in Kindled Wistar and Genetic Absence Epileptic Rats.
YAVUZ M., KANDEMİR C., KARAKAYA F. B., ÇİLİNGİR KAYA Ö. T., ONAT F., ŞİRVANCI S.
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, 2022 (Peer-Reviewed Journal)
4. Automatic Detection Of Seizure Activity From EEG Recordings Of Genetic Rat Model Of Absence

Epilepsy

Onat F., Yavuz M., Özmen B., Çarçak Yılmaz N., Gülçebi İdriz Oğlu M., Çiftçi R. K., Molnar Z.

Institute of Electrical and Electronics Engineers, pp.1-4, 2021 (Conference Book)

5. **The Role of Rho/Rho-Kinase Pathway in the Pathophysiology of Absence Epilepsy**
Carcak N., Yavuz M., Eryigit T., Kurt A. H., Urhan Kucuk M., Onat F., Buyukafsar K.
EPILEPSI, vol.25, no.1, pp.1-7, 2019 (ESCI)
6. **The Role of Hyperpolarization-Activated Cyclic Nucleotide-Gated Channels in the Pathophysiology of Absence Epilepsy**
Yavuz M., Onat F.
EPILEPSI, vol.24, no.2, pp.41-50, 2018 (ESCI)

Books & Book Chapters

1. Epilepsiye Deneysel Yaklaşım

Onat F., Yavuz M., Gülnar R., Mustafaoglu Varol N.

in: Epilepsi ve Farmakoterapisi Klinik ve Nörobiyolojik Yaklaşım, Prof. Dr. Ayşın Dervent, Prof. Dr. Filiz Yılmaz ONAT, Prof. Dr. Ebru ALTINDAÇ, Editor, Nobel Tıp Kitapevi, İstanbul, pp.1-24, 2022

2. Epilepsilerde İlaç Tedavisi

Onat F., Yavuz M.

in: Goodman & Gilman'ın Farmakoloji ve Tedavi El Kitabı, Filiz ONAT, Melis YAVUZ, Editor, Güneş Kitabevi, İstanbul, pp.344-361, 2017

Refereed Congress / Symposium Publications in Proceedings

1. Effect of orexin type-2 receptor agonist on spike-and-wave discharges in rats with genetic absence epilepsy of Strasbourg origin

Toplu A., Yavuz M., Çarçak Yılmaz N., Molnar Z., Onat F.

19. Ulusal Sinir Bilim Kongresi, 21 - 23 November 2021, pp.96

2. Dexmedetomidine In GAERS: An Acute Absence Status Epilepticus Model

Yavuz M., Onat F.

26. Ulusal ve 1. Uluslararası Farmakoloji Kongresi, 4 - 06 November 2021, pp.208

3. EFFECTS OF INTRACEREBROVENTRICULAR INJECTION OF YNT-185 ON SPIKE-AND-WAVE DISCHARGES OF GENETIC ABSENCE EPILEPSY RATS FROM STRASBOURG

Toplu A., Yavuz M., Çarçak Yılmaz N., Molnar Z., Onat F.

26.Uluslararası Farmakoloji Kongresi, 4 - 06 November 2021, pp.209

4. Effect Of Neurotensin On Spike-And-Slow-Wave Discharges In Rats With Genetic Absence Epilepsy

Erdeve E. T., Toplu A., Yavuz M., Turgan Aşık Z. N., Çarçak Yılmaz N., Molnar Z., Onat F.

26. Ulusal ve 1. Uluslararası Farmakoloji Kongresi, 4 - 06 November 2021, pp.460

5. Striatal degeneration alters absence seizures during epileptogenesis: Is nigro-striatal pathway involved in spike-and-wave discharges?

Yavuz M., Toplu A., Çulpan Y., Turgan Aşık Z. N., Karamahmutoğlu T., Gülçebi İdriz Oğlu M., Gülnar R., Onat F.

34. International Epilepsy Conference, 28 August - 01 September 2021

6. Correlation Between Weight and Apomorphine Induced Rotation in Genetic Absence Epilepsy Rats from Strasbourg

Toplu A., Yavuz M., Çulpan Y., Turgan Aşık Z. N., Gülnar R., Gülçebi İdriz Oğlu M., Onat F.

34. International Epilepsy Conference, 28 August - 01 September 2021

7. Comparison of tyrosine hydroxylase and parvalbumin immunoreactivity in striatum and substantia nigra

Turgan Aşık Z. N., Çulpan Y., Toplu A., Onat F., Yavuz M., Kirazlı Ö., Gülçebi İdriz Oğlu M., Şehirli Ü. S., Gülnar R.

34. International Epilepsy Conference, 28 August - 01 September 2021, pp.93-94
8. Automatic detection of seizure activity from EEG recordings of genetic rat model of absence epilepsy
Genetik absans epilepsi siçan modelinde nöbet aktivitesinin EEG kayıtlarından otomatik olarak tespiti
Ozmen B., Ciftci R. K., Yavuz M., Carcak N., Gülçebi İdriz Oğlu M., Molnar Z., Onat F.
29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021
9. Vücut Ağırlığı Değişimi Genetik Absans Epilepsili Sıçan Yavrularında 6-Hidroksidopamin Kaynaklı Nörodejenerasyon Derecesini Gösterebilir Mi?
Çulpan Y., Karamahmutoğlu T., Turgan Aşık Z. N., Yavuz M., Toplu A., Gülçebi İdriz Oğlu M., GÜLHAN R., ONAT F.
12. Ulusal Epilepsi Kongresi, 27 May 2021
10. Pre-Epileptik Dönemde Genetik Absans Epilepsili Sıçanların Epileptiform Aktiviteleri Ve İlişkili Donakalma Davranışı
İyiköşker P., Yavuz M., Onat F.
12. Ulusal Epilepsi Kongresi, 27 - 30 May 2021
11. Absans Epilepsinin Epileptogenez Sürecinde Nigro-Striatal Dopaminerjik Yolağın Rolünün Araştırılması
TOPLU A., YAVUZ M., ÇULPAN Y., TURGAN AŞIK Z. N., YANANLI H. R., GÜLHAN R., GÜLÇEBİ İDRİZ OĞLU M., ONAT F.
12. Ulusal Epilepsi Kongresi, Turkey, 27 May 2021
12. 6-Hidroksidopamin Uygulanan Wistar Ve Genetik Absans Epilepsili Sıçanların Rotasyonlarının Karşılaştırılması
TOPLU A., YAVUZ M., ÇULPAN Y., TURGAN AŞIK Z. N., GÜLHAN R., GÜLÇEBİ İDRİZ OĞLU M., ONAT F.
18. Ulusal Sinirbilim Kongresi, Turkey, 06 November 2020
13. Nigro-Striatal Yolak Hasarının Epileptogenez Sürecinde Diken-Ve-Dalga Deşarjları Etkilemesi
YAVUZ M., ÇULPAN Y., TURGAN AŞIK Z. N., TOPLU A., KARAMAHMUTOĞLU T., GÜLÇEBİ İDRİZ OĞLU M., GÜLHAN R., ONAT F.
18. Ulusal Sinirbilim Kongresi, Turkey, 06 November 2020
14. HİDROKSİDOPAMİN ENJEKSİYONU İLE OLUŞTURULAN PARKİNSON HASTALIĞI MODELİNDE MOTOR TESTLERİN KARŞILAŞTIRILMASI
ÇULPAN Y., TOPLU A., YAVUZ M., TURGAN AŞIK Z. N., GÜLHAN R., GÜLÇEBİ İDRİZ OĞLU M., ONAT F.
Online Epilepsi Sempozyumu, Turkey, 16 October 2020, pp.21
15. The ameliorating effect of thymoquinone on testicular injury in a temporal lobe epilepsy model.
Karakaya B., Yavuz M., Onat F., Şirvancı S.
24th National Electron Microscopy Congress Edirne, Edirne, Turkey, 24 - 26 April 2019
16. Supression of Spike-and-Wave Discharges by an Alpha 2 Adrenergic Receptor Blocker, Atipamezole, in a Genetic Absence Epilepsy RatModel
Yavuz M., Çarçak Yılmaz N., Onat F.
13th European Congress on Epileptology Vienna, Austria, Vienna, Austria, 26 - 30 August 2018
17. An alpha 2 adrenergic receptor blocker, atipamezole suppressed seizures and increased locomotor activity in a genetic absence epilepsy rat model.
Yavuz M., Çarçak Yılmaz N., Onat F.
11th FENS-Forum of Neuroscience, Berlin, Germany, Berlin, Germany, 7 - 11 July 2018
18. Kindling uygulanmış wistar albino sıçanlarda nörogenezin incelenmesi
KANDEMİR C., YAVUZ M., KAYA Ö. T., ONAT F., ŞİRVANCI S.
16. Ulusal Sinirbilim Kongresi, Turkey, 20 - 23 May 2018
19. Modulation Of Spike-and-Wave Discharges In Genetic Absence Epilepsy Rats From Strasbourg (GAERS) By Fasudil, A Rho-kinase Inhibitor
YAVUZ M., ÇARÇAK YILMAZ N., KARAMAHMUTOĞLU T., AKARSU Ö. G., KURT A. H., ONAT F., BÜYÜKAŞAR K.
7th Eilat International Educational Course, Jerusalem, Israel, 15 - 21 October 2017
20. Developing a Wistar rat model of parkinsonism induced by chronic valproate administration.
YAVUZ M., ONAT F., KARAMAHMUTOĞLU T., DENİZ Ç., ÇEBİ I., ENGİN D., KARABAŞAL İ.

- 16th National Neuroscience Congress, ITU, Istanbul, Turkey, 2 - 06 September 2017
21. **Investigation of Neurogenesis in Kindled Wistar Albino Rats.**
kandemir c., YAVUZ M., KAYA Ö. T., ONAT F., ŞİRVANCI S.
16th National Neuroscience Congress, ITU, Istanbul, Turkey, 2 - 06 September 2017
22. **Effect Of Rho-kinase Inhibitor Y-27632 On GAERS,**
ÇARÇAK YILMAZ N., YAVUZ M., KARAMAHMUTOĞLU T., ONAT F.
32nd International Epilepsy Congress, 2 - 06 September 2017
23. **Rho-kinaz Enzim Inhibitörü Fasudil'xxin Absans Epilepsili Sıçanlarda Nöbetlere Etkisi**
YAVUZ M., ÇARÇAK YILMAZ N., KURT A. H., BÜYÜKAFŞAR K., ONAT F.
15th National Neuroscience Congress, Sakarya, Turkey, 7 - 10 May 2017
24. **Rho-kinaz Inhibitörü Y-27632'xxnin Genetik Absans Epilepsili Sıçanlarda (GAERS) Diken-Dalga Deşarjları Üzerine Etkisi**
ONAT F., ÇARÇAK YILMAZ N., KURT A. H., KARAMAHMUTOĞLU T., YAVUZ M., ÇETİN B., BÜYÜKAFŞAR K.
12. National Neuroscience Congress, Istanbul, Turkey, 28 - 31 May 2014

Academic and Administrative Experience

2023 - Continues	Rectorate Commissioner	Acibadem Mehmet Ali Aydinlar University, Faculty Of Pharmacy, Pharmaceutical Profession Sciences
2022 - Continues	Fakülte-Sanayi İşbirliği Komisyonu Üyesi	Acibadem Mehmet Ali Aydinlar University, Faculty Of Pharmacy, Pharmaceutical Profession Sciences
2020 - Continues	Ethics Committee Member	Acibadem Mehmet Ali Aydinlar University, Faculty Of Pharmacy, Pharmaceutical Profession Sciences
2020 - 2023	Head of Department	Acibadem Mehmet Ali Aydinlar University

Courses

- Social Responsibility II, Undergraduate, 2022 - 2023
- Pharmacokinetics, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
- Pharmacology II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
- Pharmacology III, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
- İlaç Metabolizması ve Farmakoloji, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
- Pharmacology I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
- Graduation Project II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
- Pharmacotherapy, Undergraduate, 2022 - 2023, 2021 - 2022
- Social Responsibility I, Undergraduate, 2022 - 2023
- Pathophysiology, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
- Hemşirelige Özel Farmakoloji, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
- Pharmacology for Nurses, Undergraduate, 2022 - 2023
- Graduation Project I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
- Substance Addiction and Abuse, Undergraduate, 2021 - 2022, 2020 - 2021

Activities in Scientific Journals

- Acibadem Sağlık Bilimleri Dergisi, Editor, 2020 - Continues

Memberships / Tasks in Scientific Organizations

Turkish Pharmacological Society, Principal Member, 2023 - Continues, Turkey

Beyin Araştırmaları Derneği, Member, 2022 - Continues, Turkey

TÜBAS, Member, 2017 - Continues, Turkey

The International League Against Epilepsy (ILAE), Member, 2016 - Continues, United States Of America

Türk Epilepsi ile Savaş Derneği, Member, 2016 - Continues, Turkey

Federation of European Neuroscience Societies, Member, 2015 - Continues, Belgium

Scientific Refereeing

CLIMACTERIC, SCI Journal, February 2021

acta pharmaceutica Sciencia, Other Journals, January 2021

Metrics

Publication: 47

Citation (WoS): 26

Citation (Scopus): 27

H-Index (WoS): 3

H-Index (Scopus): 3

Research Areas

Pharmacology