

## Prof. Erdal Ađar

### Personal Information

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### Education Information

Undergraduate, Anadolu University, İktisat Fakóltesi, Uluslararası İliřkiler Bölümü, Turkey 2010 - 2014

Doctorate, University of Newcastle Upon Tyne, Tıp Fakóltesi Fizyoloji Anabilim Dalı, England 1989 - 1992

Postgraduate, Ondokuz Mayıs University, Sağlık Bilimleri Enstitüsü, Fizyoloji (YI) (Tezli), Turkey 1986 - 1988

Undergraduate, Ataturk University, Fen-Edebiyat Fakóltesi, Biyoloji Bölümü, Turkey 1981 - 1985

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Electrophysiological Properties of Cochlear Nucleus Neurones, University of Newcastle Upon Tyne, Tıp Fakóltesi Fizyoloji Anabilim Dalı, 1992

Postgraduate, Deneysel epilepsinin çinko modelinde fizyolojik ve histolojik çalışmalar, Ondokuz Mayıs University, Sağlık Bilimleri Enstitüsü, Fizyoloji (YI) (Tezli), 1988

### Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Tıp Fakóltesi, Temel Tıp Bilimleri Bölümü, 2000 - Continues

Associate Professor, Ondokuz Mayıs University, Tıp Fakóltesi, Temel Tıp Bilimleri Bölümü, 1994 - 1999

Assistant Professor, Ondokuz Mayıs University, Tıp Fakóltesi, Temel Tıp Bilimleri Bölümü, 1993 - 1994

Research Assistant, Ondokuz Mayıs University, Tıp Fakóltesi, Temel Tıp Bilimleri Bölümü, 1986 - 1988

### Academic and Administrative Experience

Ondokuz Mayıs University, 2016 - Continues

Ondokuz Mayıs University, 2015 - Continues

Ondokuz Mayıs University, 1996 - 2002

Ondokuz Mayıs University, 1999 - 2000

### Courses

Hücre Nörobiyolojisi, Postgraduate, 2013 - 2014, 2012 - 2013  
Görme Fizyolojisi, Doctorate, 2013 - 2014  
Medical Physiology, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012  
Tıp Fizyolojisi, Undergraduate, 2013 - 2014, 2012 - 2013  
İleri Dolaşım Fizyolojisi, Doctorate, 2013 - 2014  
Fizyopatoloji, Postgraduate, 2012 - 2013  
Solunum Fizyolojisi, Doctorate, 2011 - 2012  
Üreme ve Gelişme Fizyolojisi, Doctorate, 2011 - 2012, 2010 - 2011  
Kan Fizyolojisi, Doctorate, 2011 - 2012  
Kan Fizyoloji, Doctorate, 2010 - 2011  
İleri Endokrin Fizyolojisi, Doctorate, 2009 - 2010

## Advising Theses

Erdal A., B6, C ve E vitaminleri ile kanabinoid etkileşiminin penisilinle uyarılan epileptiform aktiviteye etkisi, Doctorate, A.TAŞDEMİR(Student), 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Effect of Chronic Swimming Exercise and Vitamin E Supplementation on Bone Element Metabolism in Epileptic Rats**  
BALTACI S. B., TUTKUN E., Ayyıldız M., Ağar E., Arslan G., Mogulkoc R., Baltaci A. K.  
NOROPSIKIYATRI ARSIVI-ARCHIVES OF NEUROPSYCHIATRY, vol.61, no.2, pp.113-118, 2024 (SCI-Expanded)
- II. **Role of cannabinoid CB1 receptors in the proconvulsant effect of Apelin-13 on penicillin-induced epileptiform activity**  
Ayçık F. B., Ayyıldız M., Ağar E.  
INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY, no.4, pp.238-244, 2024 (SCI-Expanded)
- III. **The Effect of Escitalopram on Spike Wave Discharges in Genetic Absence Epileptic WAG/Rij Rats**  
Hatipoğlu B., Arslan G., Ağar E., Ayyıldız M.  
ACTA PHYSIOLOGICA, pp.40, 2023 (SCI-Expanded)
- IV. **The electrophysiological and behavioral evaluation of the peptide hemopressin and cannabinoid CB1 receptor agonist and antagonist in pentylenetetrazol model of epilepsy in rats**  
Al-Kaleel A., AYGÜN H., Al-Gailani L., Kabak Y., İnal S., Ayyıldız M., Him A., Ağar E.  
PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY, vol.475, pp.719-730, 2023 (SCI-Expanded)
- V. **The Effect of the Acetylcholinesterase Inhibitor Rivastigmine on the Pentylenetetrazole-Induced Kindling Model of Experimental Epilepsy**  
Türkdönmez Ak E., Okuyucu B., Hatipoğlu B., Tiryaki E. S., Arslan G., Ağar E., Ayyıldız M.  
ACTA PHYSIOLOGICA, pp.65-66, 2023 (SCI-Expanded)
- VI. **Nesfatin-1 exerts anticonvulsant effect by reducing oxidative stress in experimental epilepsy model**  
Keloglan S. M., AYÇIK F. B., Kocacan S. E., Yazgan B., Ayyıldız M., Ağar E.  
ACTA NEUROBIOLOGIAE EXPERIMENTALIS, no.3, pp.227-235, 2023 (SCI-Expanded)
- VII. **Comparison of the Effects of Levetiracetam and Valproic Acid on Spike-Wave Discharges in WAG/Rij Rats with Genetic Absence Epilepsy**  
Türkdönmez Ak E., Okuyucu B., Hatipoğlu B., Tiryaki E. S., Ayyıldız M., Arslan G., Ağar E.  
ACTA PHYSIOLOGICA, pp.66, 2023 (SCI-Expanded)
- VIII. **The Effect of Rivastigmine on Spike-Wave Discharges and Interaction with T-Type Calcium Channels in WAG/Rij Rats**  
Türkdönmez Ak E., Okuyucu B., Tiryaki E. S., Arslan G., Ağar E., Ayyıldız M.  
ACTA PHYSIOLOGICA, vol.237, pp.34, 2023 (SCI-Expanded)

- IX. The Effect of Magnesium Sulphate on Spike Wave Discharges in Genetic Absence Epileptic WAG/Rij Rats**  
Hatipoğlu B., Okuyucu B., Türkdönmez Ak E., Tiryaki E. S., Arslan G., Ağar E., Ayyıldız M.  
ACTA PHYSIOLOGICA, vol.237, pp.67, 2023 (SCI-Expanded)
- X. The Effect of Social Isolation Stress on Epileptic Activity in the Adolescent Period**  
Musuroglu S. K., AYÇIK F. B., ŞAHİN L., Sen F., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.234, pp.33, 2022 (SCI-Expanded)
- XI. The Effect of HCN Channel Antagonist Ivabradine on Spike-Wave Discharges (Swds) In Genetic Absence Epileptic WAG/Rij Rats**  
Tiryaki E. S., Arslan G., Gunaydin C., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.234, pp.14, 2022 (SCI-Expanded)
- XII. The Effect of Metformin on Spike Wave Discharges in Genetic Absence Epileptic WAG/Rij Rats**  
Alver B., Arslan G., Al Kaleel A. Z. K., Türkdönmez Ak E., Tiryaki E. S., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.234, pp.62, 2022 (SCI-Expanded)
- XIII. The Effect of Minocycline on Total Oxidant and Antioxidant Levels During Penicillin-Induced Epileptiform Activity**  
Tosun S., Kocacan S. E., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.234, pp.16, 2022 (SCI-Expanded)
- XIV. Poster Communications**  
Tosun S., Kocacan S. E., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.234, pp.57, 2022 (SCI-Expanded)
- XV. The Role of T-Type Calcium Channels in the Effect of 5-HT7 Serotonin Receptor on Penicillin-induced Epileptiform Activity**  
Kocacan S. E., Arslan G., Rzayev E., Ağar E., Ayyıldız M.  
ACTA PHYSIOLOGICA, vol.234, pp.14, 2022 (SCI-Expanded)
- XVI. The Role of Serotonin 5-HT7 Receptor on Penicillin-Induced Epileptiform Activity**  
Kocacan S. E., Arslan G., Rzayev E., Ağar E., Ayyıldız M.  
ACTA PHYSIOLOGICA, vol.234, pp.12, 2022 (SCI-Expanded)
- XVII. Role of Peripheral CB1 Receptors in Small Intestinal Fasted Myoelectric Activity of Rats**  
Saltık O. D., Arslan G., Ağar E., Bozkurt A.  
ACTA PHYSIOLOGICA, vol.234, pp.47, 2022 (SCI-Expanded)
- XVIII. THE effect of general anesthetics on genetic absence epilepsy in WAG/Rij rats**  
Al-Gailani L., Al-Kaleel A., Arslan G., Ayyıldız M., Ağar E.  
Neurological Research, vol.44, no.11, pp.995-1005, 2022 (SCI-Expanded)
- XIX. The Effect of Vitamin E Supplementation on Brain Tissue Element Levels in Epileptic Rats**  
Ozturk-Sonmez L., TUTKUN E., Ağar E., Ayyıldız M., Mogulkoc R., Baltaci A. K.  
Archives Italiennes de Biologie, vol.160, no.1-2, pp.44-55, 2022 (SCI-Expanded)
- XX. Differential effects of inhibitors of PTZ-induced kindling on glutamate transporters and enzyme expression**  
Taspınar N., HACİMÜFTÜOĞLU A., Butuner S., TOĞAR B., Arslan G., TAGHIZADEHGHALEHJOUGHİ A., OKKAY U., Ağar E., Stephens R., TÜRKEZ H., et al.  
CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, vol.48, no.12, pp.1662-1673, 2021 (SCI-Expanded)
- XXI. The Role of NMDA Receptors in the Effect of Purinergic P2X7 Receptor on Spontaneous Seizure Activity in WAG/Rij Rats With Genetic Absence Epilepsy**  
Dogan E., AYGÜN H., Arslan G., Rzayev E., Avcı B., Ayyıldız M., Ağar E.  
FRONTIERS IN NEUROSCIENCE, vol.14, 2020 (SCI-Expanded)
- XXII. The Effect of CB1 Receptor Agonist and Antagonist on the Epileptiform Activity in a Pentylene-tetrazole Kindling Rat Model**  
Al Kaleel A. Z. K., AYGÜN H., Kamil L. A. K., Kabak Y., İnal S., Ayyıldız M., Him A., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.76, 2019 (SCI-Expanded)

- XXIII. **The Role of Neuronal Nitric Oxide Synthase Inhibition on the Effect of Resveratrol on Penicillin-Induced Epileptiform Activity**  
Mohamud M. H., Kocacan S. E., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.73, 2019 (SCI-Expanded)
- XXIV. **Effect of NAN-190 and Vilazodone Interaction on Penicillin-Induced Epileptiform Activity**  
Hokelek H., Kocacan S. E., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.74, 2019 (SCI-Expanded)
- XXV. **Effect of Tadalafil in Penicillin-Induced Epileptiform Activity**  
Tiryaki E. S., Arslan G., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.103, 2019 (SCI-Expanded)
- XXVI. **Effect of Nesfatin-1 on Oxidative Stress Parameters in Experimental Epilepsy Model**  
KELOĞLAN S., YAZGAN B., Sen F. B., Kocacan S. E., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.101, 2019 (SCI-Expanded)
- XXVII. **The Role of Inducible Nitric Oxide Synthase Inhibition on the Effect of Resveratrol on Penicillin-Induced Epileptiform Activity**  
Mohamud M. H., Kocacan S. E., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.74, 2019 (SCI-Expanded)
- XXVIII. **The Role of 5-Hydroxytryptophan and 7-Nitroindazole on Absence Epilepsy**  
Tosun S., Kocacan S. E., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.45, 2019 (SCI-Expanded)
- XXIX. **The Effect of Chloral Hydrate and Urethane on Epileptiform Activity in Wag\Rij Rats**  
Algailani L. A. K., Al Kaleel A. Z. K., Arslan G., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.77, 2019 (SCI-Expanded)
- XXX. **The Effect of Isoflurane and Ketamine/Xylazine on Epileptiform Activity in Genetic Absence Epilepsy (Wag\Rij) Rats Model**  
Algailani L. A. K., Al Kaleel A. Z. K., Arslan G., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.77, 2019 (SCI-Expanded)
- XXXI. **Electrophysiological and Biochemical Effects and Interaction of P2X7 Receptors and Memantine on Epileptic Activity in WAG / Rij Rats**  
Sen E., AYGÜN H., Arslan G., Avcı B., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.79, 2019 (SCI-Expanded)
- XXXII. **The Effect of Canabinoids on Epileptic Activity in WAG/Rij Rats and the Role of Purinergic P2X7 Receptors in This Effect**  
Seri E., AYGÜN H., Arslan G., Avcı B., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.78, 2019 (SCI-Expanded)
- XXXIII. **The Effect of Hemopressin Combined To CB1 Receptor Agonist and Antagonist on Epileptiform Activity in the Pentylene-tetrazole Kindling Rat Model**  
Al Kaleel A. Z. K., AYGÜN H., Kamil L. A. K., Kabak Y., İnal S., Ayyıldız M., Him A., Ağar E.  
ACTA PHYSIOLOGICA, vol.227, pp.24, 2019 (SCI-Expanded)
- XXXIV. **Effects of vitamin D and paricalcitol on epileptogenesis and behavioral properties of WAG/Rij rats with absence epilepsy**  
Aygun H., Ayyıldız M., Ağar E.  
EPILEPSY RESEARCH, vol.157, 2019 (SCI-Expanded)
- XXXV. **The effect of serotonin on penicillin-induced epileptiform activity**  
TAŞKIRAN M., TAŞDEMİR A., AYYILDIZ N., Ayyıldız M., Ağar E.  
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.129, no.7, pp.687-697, 2019 (SCI-Expanded)
- XXXVI. **Swimming exercise decreases the absence-like epileptic activity in WAG/Rij rats**  
Aygun H., Ayyıldız M., Ağar E.  
BEHAVIOURAL BRAIN RESEARCH, vol.363, pp.145-148, 2019 (SCI-Expanded)
- XXXVII. **The effects of moderate running exercise and L-tyrosine on penicillin-induced epileptiform activity in rats**

Kayacan Y., Kisa E. C., Ghojebegloo B. E., Kocacan S. E., Ayyıldız M., Ağar E.

ACTA NEUROBIOLOGIAE EXPERIMENTALIS, vol.79, no.2, pp.148-154, 2019 (SCI-Expanded)

- XXXVIII. **Effect of Ceftriaxone on Spontaneous Epileptic Discharges in Genetic Absence Epileptic WAG/Rij Rats**  
Tiryaki E. S., Arslan G., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.225, pp.56, 2018 (SCI-Expanded)
- XXXIX. **Effect of Caffeine on Spike Wave Discharges in Genetic Absence Epileptic WAG/Rij Rats**  
Arslan G., Tiryaki E. S., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.225, pp.57, 2018 (SCI-Expanded)
- XL. **Effects of Paricalcitol on WAG/Rij Rats with Absence Epilepsy**  
AYGÜN H., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.225, pp.59, 2018 (SCI-Expanded)
- XLI. **The Effect of Serotonin Receptor Antagonist NAN-190 on Penicillin-Induced Epileptiform Activity**  
Hokelek H., Kocacan S. E., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.225, pp.20, 2018 (SCI-Expanded)
- XLII. **The Effect of P2X7 Receptor Antagonist A-438079 On Absence Epilepsy Model of WAG/Rij Rats**  
Sen E., AYGÜN H., Arslan G., Avcı B., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.225, pp.21, 2018 (SCI-Expanded)
- XLIII. **The Effect of Vilazodone on Penicillin-Induced Epileptiform Activity**  
Hokelek H., Kocacan S. E., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.225, pp.58, 2018 (SCI-Expanded)
- XLIV. **Effect of Neuropeptide S on Penicillin-Induced Experimental Epileptiform Activity**  
Cicekli C., Sen F. B., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.225, pp.56, 2018 (SCI-Expanded)
- XLV. **The Role of CRH2 Receptor Antagonist Astressin 2B in the Anticonvulsant Effect of Nesfatin-1 on Epileptiform Activity**  
Musurluoglu S., Sen F. B., Ağar E.  
ACTA PHYSIOLOGICA, vol.225, pp.20, 2018 (SCI-Expanded)
- XLVI. **The Effect of Leptin on Epileptic Activity in WAG/Rij Rats**  
Tosun S., Sen E., Arslan G., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.221, pp.37, 2017 (SCI-Expanded)
- XLVII. **The Effect of Nesfatin-1 on Penicillin-Induced Epileptiform Activity**  
Musuroglu S. K., Sen F. B., Ağar E.  
ACTA PHYSIOLOGICA, vol.221, pp.43, 2017 (SCI-Expanded)
- XLVIII. **The Role of NMDA Receptor Blocker Memantine in the Effect of P2X7 Receptors on Penicillininduced Epileptiform Activity**  
ARSLAN G., Kocacan S. E., Ayyıldız M., Rzayev E., Avcı B., Ağar E.  
ACTA PHYSIOLOGICA, vol.221, pp.106, 2017 (SCI-Expanded)
- XLIX. **The Effect of P2X7 Receptor Agonist, BzATP on Absence-Like Epileptic Activity in Wag/Rij Rats**  
Sen E., AYGÜN H., Arslan G., Avcı B., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.221, pp.26, 2017 (SCI-Expanded)
- L. **The Effect of P2X7 Receptors on Penicillin-induced Epileptiform Activity and the Role of T-type Calcium Channel Inhibitor NNC 55-3069 on This Effect**  
ARSLAN G., Kocacan S. E., Ayyıldız M., Rzayev E., Avcı B., Ağar E.  
ACTA PHYSIOLOGICA, vol.221, pp.33, 2017 (SCI-Expanded)
- LI. **Interaction between urethane and cannabinoid CB1 receptor agonist and antagonist in penicillin-induced epileptiform activity**  
Arslan G., Alici S. K., Ayyıldız M., Ağar E.  
Acta Neurobiologiae Experimentalis, vol.77, no.2, pp.128-136, 2017 (SCI-Expanded)
- LII. **The effects of treadmill exercise on penicillin-induced epileptiform activity**  
Kayacan Y., TUTKUN E., Arslan G., Ayyıldız M., Ağar E.

ARCHIVES OF MEDICAL SCIENCE, vol.12, no.5, pp.935-940, 2016 (SCI-Expanded)

- LIII. **The Effect of Theophylline Ethylenediamine on Seizures in Older WAG/Rij Rat**  
AYGÜN H., ARSLAN G., ERBAŞ O., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.218, pp.84, 2016 (SCI-Expanded)
- LIV. **The Effect of Maternal Deprivation on Penicillin-induced Epilepsy**  
Gunyildiz G., Kocacan S. E., Ağar E., Ozyurek H., Emirzeoğlu M.  
ACTA PHYSIOLOGICA, vol.218, pp.80, 2016 (SCI-Expanded)
- LV. **The Effect of Low Dose Memantine on Epileptic Activity in WAG/Rij Rats**  
Sen E., AYGÜN H., ARSLAN G., Avcı B., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.218, pp.77-78, 2016 (SCI-Expanded)
- LVI. **Role of Cannabinoid cb1 Receptor in Proconvulsant Effect of Apelin-13 on Penicillin-induced Epileptiform Activity**  
Sen F. B., Ucar D., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.218, pp.83, 2016 (SCI-Expanded)
- LVII. **The Role of T-Type Calcium Channels in Proconvulsant Effect of Apelin-13 on Penicillin-Induced Epileptiform Activity**  
Ucar D., ARSLAN G., Alici S. K., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.218, pp.8, 2016 (SCI-Expanded)
- LVIII. **The Effects of Cannabinoids on Epileptiform Activity**  
Ağar E.  
ACTA PHYSIOLOGICA, vol.218, pp.4, 2016 (SCI-Expanded)
- LIX. **The Effect of P2X7 Receptor Antagonist A-438079 on Penicillin-induced Epileptiform Activity**  
ARSLAN G., Kocacan S. E., Ayyıldız M., Rzayev E., Avcı B., Ağar E.  
ACTA PHYSIOLOGICA, vol.218, pp.77, 2016 (SCI-Expanded)
- LX. **Effects of Ginkgo biloba extract on brain oxidative condition after cisplatin exposure**  
Aydin D., Peker E. G. G., Karakurt M. D., Gurel A., Ayyıldız M., COŞKUN CEVHER Ş., Ağar E., Dane S.  
CLINICAL AND INVESTIGATIVE MEDICINE, vol.39, no.6, 2016 (SCI-Expanded)
- LXI. **Role of Cannabinoid CB1 Receptor AM-251 in Proconvulsant Effect of Apelin Experimental Epileptiform Activity Generated with Penicillin**  
Sen F. B., Ucar D., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.215, pp.95, 2015 (SCI-Expanded)
- LXII. **Effect of Timokinon and 7-Nitroindazol Combination on Penicilin Induced Epileptiform Activity in Rat**  
Altinkaynak E., ARSLAN G., Alici S. K., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.215, pp.66, 2015 (SCI-Expanded)
- LXIII. **The Effect of Ascorbic Acid on Absence Epilepsy Model of Wag/Rij Rats**  
Sen E., AYGÜN H., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.215, pp.96, 2015 (SCI-Expanded)
- LXIV. **The Effect of CB1 Cannabinoid Receptor Antagonist AM-251 on Spike Wave Discharges in WAG/Rij Rat**  
AYGÜN H., ARSLAN G., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.215, pp.46, 2015 (SCI-Expanded)
- LXV. **Interaction between Cannabinoid CB1 Receptor and T-type Calcium Channel on Penicillin Induced Epileptiform Activity in Rat**  
Alici S. K., ARSLAN G., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.215, pp.26, 2015 (SCI-Expanded)
- LXVI. **Effect of 5-HT<sub>2a</sub> Receptor Agonist DOI on Epileptiform Activity**  
TAŞKIRAN M., TAŞDEMİR A., Ayyıldız M., Ağar E., AYYILDIZ N.  
ACTA PHYSIOLOGICA, vol.215, pp.96, 2015 (SCI-Expanded)
- LXVII. **The Effect of Apelin-13 on Penicillin-Induced Epileptiform Activity in Rats**  
Ucar D., ARSLAN G., Alici S. K., Ayyıldız M., Ağar E.  
ACTA PHYSIOLOGICA, vol.215, pp.45-46, 2015 (SCI-Expanded)

- LXVIII. **Long-term ascorbic acid administration causes anticonvulsant activity during moderate and long-duration swimming exercise in experimental epilepsy**  
TUTKUN E., Arslan G., Soslu R., Ayyıldız M., Ağar E.  
ACTA NEUROBIOLOGIAE EXPERIMENTALIS, vol.75, no.2, pp.192-199, 2015 (SCI-Expanded)
- LXIX. **The Effect of Hemostatic Agents and Tissue Adhesive on Injured Peripheral Nerve Healing in Rats - Part I. Electrophysiological Study**  
Sener I., Bereket C., Arslan G., Özkan N., Ozdemir M., Mercan U., Ayyıldız M., Ağar E.  
ADVANCES IN CLINICAL AND EXPERIMENTAL MEDICINE, vol.24, no.1, pp.23-29, 2015 (SCI-Expanded)
- LXX. **The effects of agomelatine and melatonin on ECoG activity of absence epilepsy model in WAG/Rij rats**  
AYGÜN H., Aydın D., Inanir S., Ekici F., Ayyıldız M., Ağar E.  
TURKISH JOURNAL OF BIOLOGY, vol.39, no.6, pp.904-910, 2015 (SCI-Expanded)
- LXXI. **The interaction between ghrelin and cannabinoid systems in penicillin-induced epileptiform activity in rats**  
Arslan G., Ayyıldız M., Ağar E.  
NEUROPEPTIDES, vol.48, no.6, pp.345-352, 2014 (SCI-Expanded)
- LXXII. **The Role of CB1-Receptors in the Proconvulsant Effect of Leptin on Penicillin-Induced Epileptiform Activity in Rats**  
Arslan G., Alici S. K., Ayyıldız M., Ağar E.  
CNS NEUROSCIENCE & THERAPEUTICS, vol.19, no.4, pp.222-228, 2013 (SCI-Expanded)
- LXXIII. **The effect of combined treatment of alpha-tocopherol, ascorbic acid, and pyridoxine with NMDA blocker memantine on penicillin-induced epileptiform activity in rats**  
Aydın D., Yildirim M., Ayyıldız M., Ağar E.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.43, no.2, pp.245-250, 2013 (SCI-Expanded)
- LXXIV. **The effect of co-administration of the NMDA blocker with agonist and antagonist of CB1-receptor on penicillin-induced epileptiform activity in rats**  
Cakil D., Yildirim M., Ayyıldız M., Ağar E.  
EPILEPSY RESEARCH, vol.93, no.2-3, pp.128-137, 2011 (SCI-Expanded)
- LXXV. **Endothelial nitric oxide synthase activity involves in the protective effect of ascorbic acid against penicillin-induced epileptiform activity**  
Yildirim M., Ayyıldız M., Ağar E.  
SEIZURE-EUROPEAN JOURNAL OF EPILEPSY, vol.19, no.2, pp.102-108, 2010 (SCI-Expanded)
- LXXVI. **Interaction of leptin and nitric oxide pathway on penicillin-induced epileptiform activity in rats**  
Aslan A., Yildirim M., Ayyıldız M., Guven A., Ağar E.  
BRAIN RESEARCH, vol.1321, pp.117-124, 2010 (SCI-Expanded)
- LXXVII. **Short-duration swimming exercise decreases penicillin-induced epileptiform ECoG activity in rats**  
TUTKUN E., Ayyıldız M., Ağar E.  
ACTA NEUROBIOLOGIAE EXPERIMENTALIS, vol.70, no.4, pp.382-389, 2010 (SCI-Expanded)
- LXXVIII. **The role of nitric oxide in the inhibitory effect of ghrelin against penicillin-induced epileptiform activity in rat**  
Aslan A., Yildirim M., Ayyıldız M., Guven A., Ağar E.  
NEUROPEPTIDES, vol.43, no.4, pp.295-302, 2009 (SCI-Expanded)
- LXXIX. **The effects of intracerebroventricular AM-251, a CB1-receptor antagonist, and ACEA, a CB1-receptor agonist, on penicillin-induced epileptiform activity in rats**  
Kozan R., Ayyıldız M., Ağar E.  
EPILEPSIA, vol.50, no.7, pp.1760-1767, 2009 (SCI-Expanded)
- LXXX. **The effect of alpha-tocopherol in the acute ethanol intake and its withdrawal on penicillin-induced epilepsy**  
Kozan R., Ayyıldız M., Yildirim M., Ağar E.  
ACTA NEUROBIOLOGIAE EXPERIMENTALIS, vol.69, no.2, pp.177-188, 2009 (SCI-Expanded)
- LXXXI. **Sexual dimorphism in the medial vestibular nucleus of adult rats: Stereological study**

- Ayyıldız M., Kozan R., Açar E., Kaplan S.  
ANATOMICAL SCIENCE INTERNATIONAL, vol.83, no.3, pp.131-139, 2008 (SCI-Expanded)
- LXXXII. **The effect of autogenous vein grafts on nerve repair with size discrepancy in rats: An electrophysiological and stereological analysis**  
Acar M., Karacalar A., Ayyıldız M., Unal B., Canan S., Açar E., Kaplan S.  
BRAIN RESEARCH, vol.1198, pp.171-181, 2008 (SCI-Expanded)
- LXXXIII. **The role of nitric oxide in the anticonvulsant effects of pyridoxine on penicillin-induced epileptiform activity in rats**  
Bosnak M., Ayyıldız M., Yildirim M., Agar E.  
EPILEPSY RESEARCH, vol.76, no.1, pp.49-59, 2007 (SCI-Expanded)
- LXXXIV. **The effects of ascorbic acid on penicillin-induced epileptiform activity in rats**  
Ayyıldız M., Coskun S., Yildirim M., Agar E.  
EPILEPSIA, vol.48, no.7, pp.1388-1395, 2007 (SCI-Expanded)
- LXXXV. **The influence of ethanol intake and its withdrawal on the anticonvulsant effect of  $\alpha$ -tocopherol in the penicillin-induced epileptiform activity in rats**  
Kozan R., Ayyıldız M., Yildirim M., Açar E.  
NeuroToxicology, vol.28, no.3, pp.463-470, 2007 (SCI-Expanded)
- LXXXVI. **The effects of hemostatic agents on peripheral nerve function: An experimental study**  
Alkan A., Inal S., Yildirim M., Baş Akkor B., Agar E.  
JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY, vol.65, no.4, pp.630-634, 2007 (SCI-Expanded)
- LXXXVII. **Short-term ethanol administration does not change the total pyramidal neuron number of the rat hippocampus: A stereologic study**  
Kozan R., Ayyıldız M., Bas O., Kaplan S., Agar E.  
ADVANCES IN THERAPY, vol.24, no.2, pp.231-238, 2007 (SCI-Expanded)
- LXXXVIII. **The involvement of nitric oxide in the anticonvulsant effects of alpha-tocopherol on penicillin-induced epileptiform activity in rats**  
Ayyıldız M., Yildirim M., Agar E.  
EPILEPSY RESEARCH, vol.73, no.2, pp.166-172, 2007 (SCI-Expanded)
- LXXXIX. **The effects of ethanol intake and withdrawal on penicillin-induced epileptiform activity in rats**  
Kozan R., Ayyıldız M., Yildirim M., Agar E.  
BRAIN RESEARCH BULLETIN, vol.71, no.1-3, pp.111-115, 2006 (SCI-Expanded)
- XC. **Does ascorbate/L-cys/L-Met mixture protect different parts of the rat brain against chronic alcohol toxicity?**  
Amanvermez R., Agar E.  
ADVANCES IN THERAPY, vol.23, no.5, pp.705-718, 2006 (SCI-Expanded)
- XCI. **The effects of vitamin E on penicillin-induced epileptiform activity in rats**  
Ayyıldız M., Yildirim M., Agar E.  
EXPERIMENTAL BRAIN RESEARCH, vol.174, no.1, pp.109-113, 2006 (SCI-Expanded)
- XCII. **The effect of ethanol on the number of cells in the cochlear nucleus of the male adult rat: A stereological study**  
Açar E., Boşnak M., Korkmaz A., Demir Ş., Ayyıldız M.  
Neuroscience Research Communications, vol.28, no.3, pp.189-200, 2001 (SCI-Expanded)
- XCIII. **The changes in lipid peroxidation and GSH levels in the cerebellum of rats induced by ethanol consumption are prevented by vitamin E**  
Açar E., Demir Ş., AMANVERMEZ R., Boşnak M., Ayyıldız M., Çelik C.  
Neuroscience Research Communications, vol.27, no.3, pp.191-197, 2000 (SCI-Expanded)
- XCIV. **Do cochlear nuclei contribute to auditory lateralization? A stereological evaluation of neuron numbers**  
Açar E., Demir S., Korkmaz A., Ayyıldız M., Bosnak M., Marangoz C.  
Annals of Otolaryngology, Rhinology and Laryngology, vol.108, no.7 I, pp.661-665, 1999 (SCI-Expanded)



## Articles Published in Other Journals

- I. **Role of cannabinoid receptor-2 in small intestinal fasted myoelectric activity of rats**  
Darakci Saltik Ö., Arslan G., Ağar E., Bozkurt A.  
Journal of Experimental and Clinical Medicine (Turkey), vol.39, no.3, pp.848-856, 2022 (Scopus)
- II. **Proconvulsant effect of bisphenol A in penicillin induced epileptiform activity**  
ARSLAN G., AĞAR E.  
Cumhuriyet Tıp Dergisi (ELEKTRONİK), vol.41, no.2, pp.244-249, 2019 (Peer-Reviewed Journal)
- III. **The role of T-type calcium ion channel in the effect of P2X7 receptors on the absence-like epileptic activity in WAG/Rij rats**  
ŞEN E., AYGÜN H., ARSLAN G., AVCI B., AYYILDIZ M., AĞAR E.  
Anatomy, vol.13, no.Suppl 1, pp.30, 2019 (Peer-Reviewed Journal)
- IV. **Interaction between caffeine and cannabinoid CB1 receptors in penicillin induced epileptiform activity**  
TİRYAKİ E. S., ARSLAN G., AYYILDIZ M., AĞAR E.  
Anatomy, vol.13, no.Suppl 1, pp.30, 2019 (Peer-Reviewed Journal)
- V. **An elective program in medical education: Communication with Hard of Hearing People and Turkish Sign Language**  
MIDİK Ö., BAŞAR F., EMİRZEOĞLU M., ALAYLI G., SARISOY G., GÜNBEY E., YÜCE M., AĞAR E.  
Marmara Medical Journal, vol.29, no.1, pp.14-22, 2016 (Scopus)
- VI. **An elective program in medical education Communication with People with Hard of Hearing and Turkish Sign Language**  
MIDİK Ö., BAŞAR F., EMİRZEOĞLU M., ALAYLI G., SARISOY G., GÜNBEY E., YÜCE M., AĞAR E.  
Marmara Medical Journal, vol.29, pp.14-22, 2016 (ESCI)
- VII. **An elective program in medical education: Communication with Hard of Hearing People and Turkish Sign Language**  
Midik Ö., Basar F., Emirzeoğlu M., Alaylı G., SARISOY G., Gunbey E., Yuce M., Ağar E.  
MARMARA MEDICAL JOURNAL, vol.29, no.1, pp.14-22, 2016 (ESCI)
- VIII. **The functions of voltage-dependent potassium channels in neurones Sinir hücrelerinin voltaja duyarlı potasyum membran kanalları ve fonksiyonları**  
Bal R., Ağar E.  
Ondokuz Mayıs Üniversitesi Tıp Dergisi, vol.19, no.3, pp.229-234, 2002 (Scopus)
- IX. **Membrane Properties of Complex Spike Firing Neurons of the Mouse Dorsal Cochlear Nucleus in Vitro**  
Ağar E., Green G. G., Sanders D. J.  
Journal of Basic and Clinical Physiology and Pharmacology, vol.7, no.2, pp.151-165, 1996 (Scopus)
- X. **Membrane Properties of Mouse Anteroventral Cochlear Nucleus Neurons in Vitro**  
Ağar E., Green G. G., Sanders D. J.  
Journal of Basic and Clinical Physiology and Pharmacology, vol.7, no.3, pp.179-198, 1996 (Scopus)
- XI. **Evidence that sodium nitroprusside possesses anticonvulsant effects mediated through nitric oxide**  
Marangoz C., Ayyıldız M., Ağar E.  
NeuroReport, vol.5, no.18, pp.2454-2456, 1994 (Scopus)
- XII. **Erkek ve dişi sıçanlarda dorsal hipokampusun piramidal hücre tabakasında nöronal asimetri Neuronal asymmetry of pyramidal cell in the dorsal hippocampus of male and female rats**  
Çiftçi N., AĞAR E., KAPLAN S., AYYILDIZ M., MARANGOZ C.  
9th Convention of Istanbul Faculty of Medicine, Communications, 1987 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Araştırmalarda en sık kullanılan deneysel epilepsi modelleri**

ARSLAN G., AYYILDIZ M., AĞAR E.

in: Nöroşürürjide Klinik Dışı Araştırma Yöntemleri, Füsün Demirçivi Özer, Editor, Türkiye Klinikleri, Ankara, pp.127-134, 2023

**II. İşitme ve Vestibüler Sistem**

AĞAR E.

in: İnsan Fizyolojisi, Erdal Ağar, Editor, İstanbul Tıp Kitapevleri, İstanbul, pp.743-761, 2021

**III. Tıbbi Fizyoloji Klinik Tıbbın Temelleri**

AĞAR E., AYYILDIZ M., YILDIRIM M.

İstanbul Tıp Kitabevleri, İstanbul, 2017

**IV. Tıbbi Fizyolojide Enerji Üretimi ve Genel İlkeler**

AĞAR E., AYYILDIZ M.

in: Ganong un Tıbbi Fizyolojisi, Hakkı Gökbel, Editor, Nobel Tıp Kitapevleri, pp.3-33, 2015

**V. Bölüm 1:Tıbbi Fizyolojide Enerji Üretimi ve Genel İlkeler**

AĞAR E., AYYILDIZ M.

in: Ganong un Tıbbi Fizyolojisi, Hakkı Gökbel, Editor, Nobel Tıp Kitapevleri Tic.Ltd.Şti., İstanbul, pp.3-33, 2015

## **Refereed Congress / Symposium Publications in Proceedings**

- I. Penisilinde Oluşturulan Epileptiform Aktiviteye Milrinonun Etkisi**  
OKUYUCU B., TÜRKDÖNMEZ AK E., AYYILDIZ M., AĞAR E., ARSLAN G.  
48. Ulusal Fizyoloji Kongresi, 1 - 04 November 2023, vol.1, pp.1-730
- II. Penisilinde Oluşturulan Epileptiform Aktivite Sırasında Oluşan Total Oksidan ve Antioksidan Düzeylerine Minosiklinin Etkisi**  
Tosun S., KOCACAN S. E., AYYILDIZ M., AĞAR E.  
46. Ulusal Fizyoloji Kongresi, Turkey, 8 - 10 October 2021, pp.18
- III. Sıçanlarda Penisilinde Oluşturulan Epileptiform Aktivite Üzerine Minosiklinin Etkisi**  
Tosun S., KOCACAN S. E., AYYILDIZ M., AĞAR E.  
46. Ulusal Fizyoloji Kongresi, Turkey, 8 - 10 October 2021, pp.60
- IV. 5-HT7 Serotonin Reseptörünün Penisilinde Oluşturulan Epileptiform Aktivitedeki Rolü**  
KOCACAN S. E., ARSLAN G., RZAYEV E., AĞAR E., AYYILDIZ M.  
46. Ulusal Fizyoloji Kongresi, Turkey, 8 - 10 October 2021, pp.14
- V. 5-HT7 Serotonin Reseptörünün Penisilinde Oluşturulan Epileptiform Aktivite Üzerine Etkisinde T-tipi Kalsiyum Kanallarının Rolü**  
KOCACAN S. E., ARSLAN G., RZAYEV E., AĞAR E., AYYILDIZ M.  
46. Ulusal Fizyoloji Kongresi, Turkey, 8 - 10 October 2021, pp.16
- VI. The Role of Inducible Nitric Oxide Synthase Inhibition on the Effect of Resveratrol on Penicillin-Induced Epileptiform Activity**  
Mohamud M. H., KOCACAN S. E., AYYILDIZ M., AĞAR E.  
45. Ulusal Fizyoloji Kongresi, 31 October - 03 November 2019, vol.227, pp.74
- VII. Effect of Nesfatin-1 on Oxidative Stress Parameters in Experimental Epilepsy Model**  
MÜSÜROĞLU S., YAZGAN B., ŞEN F. B., KOCACAN S. E., AYYILDIZ M., AĞAR E.  
45. Ulusal Fizyoloji Kongresi, 31 October - 03 November 2019, vol.227, pp.101
- VIII. The Role of 5-HT1A Serotonin Receptor on the Effect of 5-Hydroxytryptophan in Penicillin-Induced Epileptiform Activity**  
Hökelek H., KOCACAN S. E., AYYILDIZ M., AĞAR E.  
45. Ulusal Fizyoloji Kongresi, 31 October - 03 November 2019, vol.227, pp.104
- IX. Effect of NAN-190 and Vilazodone Interaction on Penicillin-Induced Epileptiform Activity**  
Hökelek H., KOCACAN S. E., AYYILDIZ M., AĞAR E.  
45. Ulusal Fizyoloji Kongresi, 31 October - 03 November 2019, vol.227, pp.74
- X. The Role of 5-Hydroxytryptophan and 7-Nitroindazole on Absence Epilepsy**

Tosun S., KOCACAN S. E., AYYILDIZ M., AĞAR E.

45. Ulusal Fizyoloji Kongresi, 31 October - 03 November 2019, vol.227, pp.45

- XI. **The Role of Neuronal Nitric Oxide Synthase Inhibition on the Effect of Resveratrol on Penicillin-Induced Epileptiform Activity**  
Mohamud M. H., KOCACAN S. E., AYYILDIZ M., AĞAR E.  
45. Ulusal Fizyoloji Kongresi, 31 October - 03 November 2019, vol.227, pp.73
- XII. **The Effect of Resveratrol on Penicillin-Induced Epileptiform Activity**  
Mohamud M. H., KOCACAN S. E., AYYILDIZ M., AĞAR E.  
45. Ulusal Fizyoloji Kongresi, Turkey, 31 October - 03 November 2019, vol.227, pp.23
- XIII. **DeneySEL Epilepsi Modellerinde Kanabinoid CB1 Reseptörlerinin Rolü**  
TİRYAKİ S. E., ARSLAN G., AYYILDIZ M., AĞAR E.  
17. Ulusal Sinirbilim Kongresi, Trabzon, Turkey, 4 - 07 April 2019, vol.1, pp.2-3
- XIV. **Penisilinle oluşturulan epileptiform aktivitede kafein ile kanabinoid CB1 reseptörlerinin etkileşimi**  
TİRYAKİ S. E., ARSLAN G., AYYILDIZ M., AĞAR E.  
17. Ulusal Sinirbilim Kongresi, Trabzon, Turkey, 4 - 07 April 2019, vol.1
- XV. **The Role of T-type Calcium Ion Channel in the Effect of P2X7 Receptors on the Absence-Like Epileptic Activity in WAG/Rij Rats**  
Şen e., AYĞÜN H., ARSLAN G., AVCI B., AYYILDIZ M., AĞAR E.  
17th Turkish Neuroscience Congress, Turkey, 4 - 07 April 2019, pp.30
- XVI. **WAG/Rij sıçanlarda görülen absans-benzeri epileptik aktiviteye P2X7 reseptörlerinin etkisi ve bu etkide T-tipi kalsiyum kanallarının rolü**  
TİRYAKİ S. E., ARSLAN G., AYYILDIZ M., AĞAR E.  
17. Ulusal Sinirbilim Kongresi, Trabzon, Turkey, 4 - 07 April 2019, vol.1
- XVII. **The Effect of Serotonin Receptor Antagonist NAN-190 on Penicillin-Induced Epileptiform Activity**  
Hökelek H., KOCACAN S. E., AYYILDIZ M., AĞAR E.  
44. Ulusal Fizyoloji Kongresi, 1 - 04 November 2018, vol.225, pp.20
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ARSLAN G., AVCI B., KOCACAN S. E., RZAYEV E., AYYILDIZ M., AĞAR E.  
44. Ulusal Fizyoloji Kongresi, 1 - 04 November 2018, vol.225, pp.59
- XIX. **The Effect of Vilazodone on Penicillin-Induced Epileptiform Activity**  
Hökelek H., KOCACAN S. E., AYYILDIZ M., AĞAR E.  
44. Ulusal Fizyoloji Kongresi, 1 - 04 November 2018, vol.225, pp.58
- XX. **P2X7 Reseptör Antagonisti A-438079'un WAG/Rij Sıçanlardaki Absans Epilepsi Üzerine Etkisi**  
TİRYAKİ S. E., ARSLAN G., AYYILDIZ M., AĞAR E.  
44. Ulusal Fizyoloji Kongresi, Antalya, Turkey, 1 - 04 November 2018, vol.1, pp.34
- XXI. **Genetik Absans Epilepsili WAG/Rij Sıçanlarda Görülen Spontan Epileptik Deşarjlara Seftriaksonun Etkisi**  
TİRYAKİ E. S., ARSLAN G., AYYILDIZ M., AĞAR E.  
44. Ulusal Fizyoloji Kongresi, Antalya, Turkey, 1 - 04 November 2018, vol.1, pp.89
- XXII. **Effects of 5-HT1 and 5-HT2 receptor agonists on electromagnetic field induced analgesia in rats**  
ALICI S. K., ARSLAN G., AYYILDIZ M., AĞAR E.  
11th FENS Forum of Neuroscience, Berlin, Germany, 7 - 11 July 2018, vol.1
- XXIII. **The effect of purinergic P2X7 receptors on oxidant/antioxidant status in penicillin-induced epileptiform activity**  
ALICI S. K., ARSLAN G., AYYILDIZ M., AĞAR E.  
11th FENS Forum of Neuroscience, Berlin, Germany, 7 - 11 July 2018, vol.1
- XXIV. **THE EFFECT OF GRAPE SEED EXTRACT ON SOME SPERMATOLOGICAL PARAMETERS IN ALBINO WISTAR RATS WITH SWIMMING EXERCISE**  
SELÇUK M., TUTKUN E., KABAK Y. B., AKAL E., SOSLU R., KAYA M., AYYILDIZ M., AĞAR E.  
VI. NATIONAL AND INTERNATIONAL CONGRESS OF TURKISH SOCIETY OF VETERINARY GYNAECOLOGY, 12 - 15

October 2017

- XXV. **The effects of grape seed extract on some spermatological parameters in albino wistar rats with swimming exercise**  
SELÇUK M., TUTKUN E., KABAK Y. B., AKAL E., SOSLU R., KAYA M., AYYILDIZ M., AĞAR E.  
I International Congress of Turkish Society of Veterinary Gynaecology, Marmaris, Turkey, 12 - 15 October 2017, pp.171
- XXVI. **The effect of grape seed extract on some spermatological parameters in Albino Wistar rats with swimming exercise**  
SELÇUK M., TUTKUN E., KABAK Y. B., AKAL E., SOSLU R., KAYA M., AYYILDIZ M., AĞAR E.  
Türk Veteriner Jinekoloji Derneği I. Uluslararası Kongresi, 12 - 15 October 2017
- XXVII. **The effect of grape seed exact on some spermatological parameters in Albino Wistar Rats with swimming exercise**  
SELÇUK M., TUTKUN E., KABAK Y. B., AKAL E., SOSLU R., KAYA M., AYYILDIZ M., AĞAR E.  
VII. National I. International Congres of Turkish Society of Veterinary Gynaecology, Muğla, Turkey, 15 - 18 October 2017, pp.170-171
- XXVIII. **The Role of NMDA Receptor Blocker Memantine in the Effect of P2X7 Receptors on Penicillin-induced Epileptiform Activity**  
ARSLAN G., KOCACAN S. E., AYYILDIZ M., Rzayev E., AVCI B., AĞAR E.  
43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, vol.221, pp.106
- XXIX. **The role of P2X7 receptors in penicillin-induced epileptiform activity**  
ARSLAN G., KOCACAN S. E., AYYILDIZ M., Rzayev E., AVCI B., AĞAR E.  
FEPS 2017 Vienna Congress, Viyana, Austria, 13 - 15 September 2017, vol.221, pp.150
- XXX. **The Effect of P2X7 Receptors on Penicillin-induced Epileptiform Activity and the Role of T-type Calcium Channel Inhibitor NNC 55-3069 on This Effect**  
ARSLAN G., KOCACAN S. E., AYYILDIZ M., Rzayev E., AVCI B., AĞAR E.  
43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, vol.221, pp.33
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AYGÜN H., KABAK Y. B., AYYILDIZ M., Al Khaleel A. Z. K., Kamil L. A. K., Beyazkılınç İnal S., AĞAR E.  
FEPS-2017, Viyana, Austria, 13 - 15 September 2017, vol.221, pp.10
- XXXII. **The effect of nesfatin-1 on penicillin-induced epileptiform activity**  
KELOĞLAN S., ŞEN F. B., AĞAR E.  
43rd Turkish Physiological Society Congress, Denizli, Turkey, 7 - 10 September 2017, vol.221, pp.43
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43 Turkish Physiological Society Congress, Denizli, Turkey, 7 - 10 September 2017, vol.221, pp.37
- XXXIV. **The role of hemopressin on penicillin-induced epileptiform activity in rats**  
AYGÜN H., ARSLAN G., Şen E., AYYILDIZ M., AĞAR E.  
43rd Turkish Physiological Society Congress, Denizli, Turkey, 7 - 10 September 2017, vol.221, pp.43
- XXXV. **The role of P2X7 recptors in penicillin-induced epileptiform activity**  
ARSLAN G., KOCACAN S. E., AYYILDIZ M., Rzayev E., AVCI B., AĞAR E.  
FEPS 2017, Viyana, Austria, 13 - 15 September 2017, vol.221, pp.9-10
- XXXVI. **The effect of hemopressin on ECoG activity of absance epilepsy model in WAG/Rij rats.**  
AYGÜN H., KABAK Y. B., AYYILDIZ M., ZAHER A., KAMİL L., BEYAZKILINÇ S., HİM A., AĞAR E.  
FEBS, 13 - 15 September 2017
- XXXVII. **The role of P2X7 receptors in penicilin-induced epileptiform activity**  
ARSLAN G., KOCACAN S. E., AYYILDIZ M., RZAYEV E., AVCI B., AĞAR E.  
FEPS 2017, 13 - 15 September 2017
- XXXVIII. **WAG / Rij sıçanlarda görülen epileptik aktivite üzerine leptinin etkisi**  
TOSUN S., ŞEN E., ARSLAN G., AYYILDIZ M., AĞAR E.  
43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, vol.1, pp.37
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AYGÜN H., KABAK Y. B., AYYILDIZ M., ZAHER KAMEL EL KHALEEL A., ADİL KAMİL KAMİL L., BAYZKILINÇ INAL S., HİM A., AĞAR E.

43. Ulusal Fizyoloji Kongresi, Turkey, 7 - 10 September 2017

- XL. **The Effect of P2X7 Receptor Agonist, BzATP on Absence-Like Epileptic Activity in Wag/Rij Rats**  
ŞEN E., AYGÜN H., ARSLAN G., AVCI B., AYYILDIZ M., AĞAR E.  
43. Ulusal Fizyoloji Kongresi, Turkey, 7 - 10 September 2017
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TOSUN S., ŞEN E., ARSLAN G., AYYILDIZ M., AĞAR E.  
43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, vol.1, pp.26
- XLIII. **Sıçanlarda penisilinle oluşturulan epileptiform aktivitede hemopressin' in rolü**  
TİRYAKİ S. E., ARSLAN G., AYYILDIZ M., AĞAR E.  
43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, vol.1, pp.43
- XLIV. **Penisilinle Oluşturulan Epileptiform Aktiviteye P2X7 Reseptörlerinin Etkisi ve Bu Etkide T-tipi Kalsiyum Kanal İnhibitörü NNC 55-3069'un Rolü**  
TİRYAKİ S. E., ARSLAN G., AYYILDIZ M., AĞAR E.  
43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, vol.1, pp.33
- XLV. **The Role of CB1 Receptor Agonist ACEA in the Proconvulsant Effect of Hemopressin on the Penicillin-induced Epileptiform Activity**  
AYGÜN H., ARSLAN G., ŞEN E., AYYILDIZ M., AĞAR E.  
43. ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, vol.1, pp.106
- XLVI. **The effect of memantine on epileptic activity inWAG/Rij rats**  
ŞEN E., AYGÜN H., ARSLAN G., AVCI B., AYYILDIZ M., AĞAR E.  
15th Turkish Neuroscience Congress, 7 - 10 May 2017, vol.7, pp.49-50
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15. ULUSAL SİNİRBİLİM KONGRESİ, Sakarya, Turkey, 7 - 10 May 2017, pp.134
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THE INTERNATIONAL BALKAN CONFERENCE IN SPORT SCIENCES, 21 - 23 May 2017, vol.254, pp.200
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MOĞULKOÇ R., BALTACI A. K., TUTKUN E., AĞAR E., AYYILDIZ M., ARSLAN G., YÜCE K.  
THE INTERNATIONAL BALKAN CONFERENCE IN SPORT SCIENCES, 21 - 23 May 2017, vol.612, pp.311
- L. **The role of CB1 cannabinoid receptors in absence-like seizures of WAG/Rij rat**  
AYGÜN H., KABAK Y. B., AYYILDIZ M., Al Khaleel A. Z. K., Kamil L. A. K., Beyazkılınç İnal S., HİM A., AĞAR E.  
15th Turkish Neuroscience Congress, Sakarya, Turkey, 7 - 10 May 2017, vol.11, pp.54-55
- L. **Effect of vitamin E on the epileptiform activity induced by penicillin in rats with short-term maternal deprivation**  
Günyıldız G., KOCACAN S. E., AĞAR E., Özyürek H., HİM A., EMİRZEOĞLU M.  
15th Turkish Neuroscience Congress, Sakarya, Turkey, 7 - 10 May 2017, vol.11, pp.79
- LI. **The effect of memantine on epileptic activity in WAG/Rij rats**  
Şen E., AYGÜN H., ARSLAN G., AVCI B., AYYILDIZ M., AĞAR E.  
15th Turkish Neuroscience Congress, Sakarya, Turkey, 7 - 10 May 2017, vol.11, pp.49-50
- LII. **The effect of modafinil on penicillin-induced epileptiform activity**  
AYGÜN H., Şen E., AYYILDIZ M., AĞAR E.  
Innovation in Medicine Summit, Gaziantep, Turkey, 11 - 13 May 2017, pp.94
- LIII. **The effect of high dose agomelatine on spike wave discharges in wag/rij rats**

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Innovation in Medicine Summit, Gaziantep, Turkey, 11 - 13 May 2017, pp.105

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AYGÜN H., KABAK Y. B., AYYILDIZ M., Al Khaleel A. Z. K., Kamil L. A., İNAL S., HİM A., AĞAR E.  
15. Ulusal Sinirbilim Kongresi, Sakarya, Turkey, 7 - 10 May 2017, pp.101
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ŞEN E., AYGÜN H., ARSLAN G., AVCI B., AYYILDIZ M., AĞAR E.  
15. Ulusal Sinirbilim Kongresi, Turkey, 7 - 10 May 2017, pp.94
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SOSLU R., EKİNCİ AKDEMİR F. N., ARSLAN G., AYYILDIZ M., AĞAR E.  
2nd International Conference On Advances in Natural and Applied Sciences, Ağrı, Turkey, 18 - 21 April 2017, vol.1
- LVII. **Effects of grape extract and different swimming exercise program on muscle tissue in experimental model induced by penicilline G**  
SOSLU R., EKİNCİ AKDEMİR F. N., ARSLAN G., AYYILDIZ M., AĞAR E.  
ICANAS, Antalya, Turkey, 18 - 21 April 2017, pp.395
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İstanbul Üniversitesi İstanbul Tıp Fakültesi Öğrenci Bilim Günleri, İstanbul, Turkey, 4 - 05 March 2017, vol.1, pp.30-31
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14th International Sport Sciences Congress, 1 - 04 November 2016
- LX. **Lipid Peroxidation in Brain Tissues of Rats with Epileptic and Subjected to Chronic Swimming Exercise and Vitamic C Supplemented**  
AĞAR E., BALTACI A. K., MOĞULKOÇ R., AYYILDIZ M., TUTKUN E., ARSLAN G., PATLAR S.  
14th International Sport Sciences Congress., Antalya, Turkey, 1 - 04 November 2016
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14th International Sport Sciences Congress, 1 - 04 November 2016
- LXII. **Element Levels of Different Tissues of Rat with Epileptic and Subjected to Chronic Swimming Exercise and Vitamic E Supplement**  
AYYILDIZ M., BALTACI A. K., MOĞULKOÇ R., AĞAR E., ARSLAN G., TUTKUN E., PATLAR S.  
14th International Sport Sciences Congress. Antalya, Turkey, 1 - 04 November 2016
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43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, vol.1, pp.82
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42. Ulusal Fizyoloji Kongresi, Düzce, Turkey, 5 - 08 September 2016
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GÜNYILDIZ G., KOCACAN S. E., AĞAR E., ÖZYÜREK H., EMİRZEOĞLU M.  
42. Ulusal Fizyoloji Kongresi, Düzce, Turkey, 5 - 08 September 2016

- LXVII. **The Effects of Very Low Frequency Electromagnetic Fields on Morphine Analgesia and Tolerance in Rats**  
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42. Ulusal Fizyoloji Kongresi, Düzce, Turkey, 5 - 08 September 2016, vol.1, pp.77
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ARSLAN G., KOCACAN S. E., AYYILDIZ M., RZAYEV E., AVCI B., AĞAR E.  
42. Ulusal Fizyoloji Kongresi, Düzce, Turkey, 5 - 08 September 2016, vol.1, pp.77
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42. Ulusal Fizyoloji Kongresi, Düzce, Turkey, 5 - 08 September 2016, vol.1, pp.8
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42. Ulusal Fizyoloji Kongresi, Düzce, Turkey, 5 - 08 September 2016, vol.1, pp.8
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Düz U., KILIÇ N., AĞAR E., ARSLAN G., Kozan A., Kılıçoğlu M.  
41st FEBS Congress, Molecular and Systems Biology for a Better Life, 3 - 08 September 2016
- LXXII. **Cannabinoids and Epilepsy**  
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2nd Neuroscience Stereology and Academic Writing Symposium, 15 - 19 March 2016
- LXXIII. **CB1 Kanabinoid Reseptör Antagonisti AM-251' in WAG/Rij Sıçanlarda Görülen Diken Dalga Deşarjlarına Etkisi**  
AYGÜN H., ARSLAN G., AYYILDIZ M., AĞAR E.  
41. Ulusal fizyoloji Kongresi, Turkey, 9 - 13 September 2015, vol.1, pp.106-107
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ALICI S. K., ARSLAN G., AYYILDIZ M., AĞAR E.  
Türk Fizyolojik Bilimler Derneği 41. Ulusal Fizyoloji Kongresi 9 - 13 Eylül 2015, Çanakkale, Çanakkale, Turkey, 9 - 13 September 2015
- LXXV. **Memantin ve NNC 55-0396 etkileşiminin penisilin ile oluşturulan epileptiform aktiviteye etkisi**  
ALICI S. K., ARSLAN G., AYYILDIZ M., AĞAR E.  
13. ULUSAL SİNİRBİLİM KONGRESİ, Konya, Turkey, 30 April - 03 May 2015, vol.1
- LXXVI. **Günlük Hayatımızda Maruz Kaldığımız Bisfenol A nın Penisilin Modeli Parsiyel Epilepside ve Genetik Absans Epilepsili Sıçanlardaki Rolü**  
ARSLAN G., AVCI B., AYYILDIZ M., AĞAR E.  
40. Ulusal Fizyoloji Kongresi, Turkey, 2 - 06 September 2014
- LXXVII. **Panelist**  
GÜNBEY E., GÜZEL A., TERZİ M., AĞAR E.  
OMÜ Tıp Fakültesi Dekanlığı 'Kaliteli uyuyor muyum?' paneli, Turkey, 04 June 2014
- LXXVIII. **Ondokuz Mayıs Üniversitesi Tıp Fakültesinde Akılcı İlaç Kullanımı Eğitiminin Değerlendirmesi**  
BİLGE S. S., MIDİK Ö., AĞAR E., TONTUŞ H. Ö.  
22 Ulusal Farmakoloji Kongresi, 2013, Turkey, 4 - 07 November 2013
- LXXIX. **Penisilin ile Oluşturulan Epileptiform Aktiviteye Thymoquinon'un Etkisi**  
ALICI S. K., ARSLAN G., AYYILDIZ M., AĞAR E.  
39. Ulusal Fizyoloji Kongresi, Ankara, Turkey, 10 - 14 September 2013, vol.1, pp.170
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ARSLAN G., ALICI S. K., AYYILDIZ M., AĞAR E.  
38. Ulusal Fizyoloji Kongresi, Trabzon, Turkey, 25 - 29 September 2012, vol.1, pp.224
- LXXXI. **Penisilinle oluşturulan epileptiform aktivite üzerine leptinin gösterdiği prokonvulsan etkide**

### **kanabinoid CB1 reseptörünün rolü**

ARSLAN G., ALICI S. K., AYYILDIZ M., AĞAR E.

38. Ulusal Fizyoloji Kongresi, Trabzon, Turkey, 25 - 29 September 2012, vol.1, pp.86

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ARSLAN G., UÇAR D., SOSLU R., TUTKUN E., KAYACAN Y., AYYILDIZ M., AĞAR E.

38. Ulusal Fizyoloji Kongresi, Trabzon, Turkey, 25 - 29 September 2012, vol.1, pp.225

LXXXIII. **The effect of different dental implants on the sciatic nerve**

KAPLAN S., CEYLAN G., AĞAR E., AYYILDIZ M., YILMAZ N., ARMAĞANCI A., ARSLAN G., ÖZDEMİR O. S., UZ N., ALTUNKAYNAK B. Z.

35th Annual Congress European Prosthodontic Association, Bern, Switzerland, 29 September - 01 October 2011, vol.1

### **Supported Projects**

Ağar E., Project Supported by Higher Education Institutions, Federation Of European Physiological Societies Meeting (FEPS 2017), 2017 - 2023

Ağar E., Project Supported by Higher Education Institutions, PENİSİLİN İLE OLUŞTURULAN DENEYSSEL EPİLEPTİFORM AKTİVİTE ÜZERİNE NÖROPEPTİT-S&#39;İN ETKİSİ, 2017 - 2018

Ağar E., Project Supported by Higher Education Institutions, 2nd Neuroscience Stereology and Scientific Writing Symposium, 2016 - 2016

Ağar E., Project Supported by Higher Education Institutions, Penisilinle Oluşturulan Epileptiform Aktivite Üzerine Apelinin Etkisi ve T- Tipi Kalsiyum Kanallarının Rolü, 2013 - 2015