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Education Information

Doctorate, Ondokuz Mayıs University, Sağlık Bilimleri Enstitüsü, Fizyoloji (Dr), Turkey 2015 - 2020

Postgraduate, Ondokuz Mayıs University, Sağlık Bilimleri Enstitüsü, Fizyoloji (YI) (Tezli), Turkey 2009 - 2013

Undergraduate, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, Turkey 1997 - 2002

Dissertations

Postgraduate, Sıçanda penisilinle oluşturulan epilepsiye molsidominin etkisi, Ondokuz Mayıs University, Sağlık Bilimleri Enstitüsü, Fizyoloji (YI) (Tezli), 2013

Academic Titles / Tasks

Lecturer, Ondokuz Mayıs University, Sağlık Hizmetleri Meslek Yüksekokulu, Dişçilik Hizmetleri Bölümü, 2016 - Continues

Research Assistant, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Fizyoloji Anabilim Dalı (s), 2012 - 2014

Academic and Administrative Experience

Ondokuz Mayıs University, 2017 - 2019

Courses

Bilgi ve İletişim Teknolojisi, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Tıbbi Terminoloji, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

Fizyoloji, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Enfeksiyon Hastalıkları, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Fizyoloji 1, Undergraduate, 2019 - 2020, 2018 - 2019

Fizyoloji-II, Undergraduate, 2019 - 2020

Bilgi ve İletişim Teknolojileri, Associate Degree, 2019 - 2020

Mesleki Saha Uygulamaları, Associate Degree, 2019 - 2020

Görme Optiği-II, Associate Degree, 2019 - 2020

Fizyoloji, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Tıbbi Terminolojiye Giriş, Associate Degree, 2019 - 2020, 2018 - 2019

Temel Sağlık, Associate Degree, 2019 - 2020, 2018 - 2019, 2017 - 2018
Temel Gerontoloji, Associate Degree, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
Tıbbi Terminoloji, Undergraduate, 2019 - 2020
Fizyoloji 2, Undergraduate, 2018 - 2019, 2017 - 2018
Strelizasyon ve Dezenfeksiyon, Associate Degree, 2018 - 2019
Bilgi ve İletişim Teknolojisi II, Associate Degree, 2017 - 2018, 2016 - 2017
Egzersiz Fizyolojisi ve Yaşlı J., Associate Degree, 2017 - 2018, 2016 - 2017
Bilgi ve İletişim Teknolojisi I, Associate Degree, 2017 - 2018, 2016 - 2017
Egzersiz Fizyolojisi ve Yaşlı Cimnastiği, Associate Degree, 2016 - 2017
Fizyoloji I, Associate Degree, 2016 - 2017
Meslek Etiği, Associate Degree, 2016 - 2017
BİLGİ VE İLETİŞİM TEKNOLOJİSİ I, Associate Degree, 2015 - 2016
Temel Gerontoloji, Associate Degree, 2015 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **Poster Communications**
Tosun S., Kocacan S. E., Ayyıldız M., Ağar E.
ACTA PHYSIOLOGICA, vol.234, pp.57, 2022 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **Physical exercise and 5-hydroxytryptophan, a precursor for serotonin synthesis, reduce penicillin-induced epileptiform activity**
Kayacan Y., Ghojbeigloo B. E., Cerit G., Kocacan S. E., Ayyıldız M.
EPILEPSY & BEHAVIOR, vol.112, 2020 (SCI-Expanded)
- VII. **Investigation of the Interaction of Exenatide and Cannabinoid Receptors in Penicillin-Induced Epilepsy Model**
Jimale H. M., Yildiz A., Kocacan S. E., Ayyıldız M., Him A.
ACTA PHYSIOLOGICA, vol.227, pp.45, 2019 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **The Role of 5-Hydroxytryptophan and 7-Nitroindazole on Absence Epilepsy**
Tosun S., Kocacan S. E., Ayyıldız M., Ağar E.

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- XI. **Effect of NAN-190 and Vilazodone Interaction on Penicillin-Induced Epileptiform Activity**
Hokelek H., Kocacan S. E., Ayyıldız M., Ağar E.
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- XII. **The Role of Inducible Nitric Oxide Synthase Inhibition on the Effect of Resveratrol on Penicillin-Induced Epileptiform Activity**
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- XIII. **The effects of moderate running exercise and L-tyrosine on penicillin-induced epileptiform activity in rats**
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ACTA NEUROBIOLOGIAE EXPERIMENTALIS, vol.79, no.2, pp.148-154, 2019 (SCI-Expanded)
- XIV. **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)
- XV. **Effect of Exercise-Related Coenzyme Q10 Use on Epileptiform Activity in Rats**
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- XVI. **The Role of Nitrergic System in The Effect of Exenatide on Penicillin Induced Epileptiform Activity**
Yildiz A., Kocacan S. E., Him A.
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- XVII. **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)
- XVIII. **Proconvulsant Effect of Papaverine on Penicillin-Induced Epileptiform Activity in Rats**
Marangoz A. H., Kocacan S. E., Him A., Kuruoglu E., Çokluk C., MARANGOZ C.
TURKISH NEUROSURGERY, vol.28, no.3, pp.479-482, 2018 (SCI-Expanded)
- XIX. **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.
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- XX. **The Role of NMDA Receptor Blocker Memantine in the Effect of P2X7 Receptors on Penicillin-induced Epileptiform Activity**
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- XXI. **Exercise and L-tyrosine Supplementation on Penicillin-induced Epileptiform Activity in Rats**
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ACTA PHYSIOLOGICA, vol.221, pp.99, 2017 (SCI-Expanded)
- XXII. **Postlaminectomy Bone and Scar Formations in Presence of Ankaferd Blood Stopper and Bitter Melon (Momordica Charantia): An Experimental Study**
Kuruoglu E., Önger M. E., Marangoz A. H., Kocacan S. E., Çokluk C., Kaplan S.
TURKISH NEUROSURGERY, vol.27, no.3, pp.441-446, 2017 (SCI-Expanded)
- XXIII. **Seizures with Pentylentetrazolindazole Cause a Decrease in the Number of Pyramidal Neurons in the Rat Hippocampus**
Kocacan S. E., Sefil F., Elibol E., Altunkaynak B. Z., Acar M. D., Bagirci F., Marangoz C., Kaplan S.
ANALYTICAL AND QUANTITATIVE CYTOPATHOLOGY AND HISTOPATHOLOGY, vol.38, no.5, pp.295-300, 2016 (SCI-Expanded)
- XXIV. **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)
- XXV. **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)

XXVI. Papaverine Increases Penicillin Induced Epileptiform Activity

Marangoz A. H., Kocacan S. E., Kuruoglu E., Marangoz C.

ACTA PHYSIOLOGICA, vol.215, pp.98, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Effect of Nitrendipine and Levetiracetam in Pentylentetrazole Kindled Rats**
KARAKURT M. D., KOCACAN S. E., MARANGOZ C.
International Journal of Neuroscience Research, vol.3, no.9, pp.1-9, 2019 (Peer-Reviewed Journal)
- II. **Protective effects of melatonin and omega-3 on the hippocampus and the cerebellum of adult Wistar albino rats exposed to electromagnetic fields**
ALTUN G., KAPLAN S., DENİZ Ö. G., KOCACAN S. E., CANAN S., Devra D., MARANGOZ C.
Journal of Microscopy and Ultrastructure, vol.5, no.4, pp.230-241, 2017 (Peer-Reviewed Journal)
- III. **Seizures with pentylentetrazol kindling cause a decrease in the number of pyramidal neurons in the rat hippocampus**
Kocacan S. E., Sefil F., Elibol E., Altunkaynak B. Z., Acar M. D., Bağırıcı F., Marangoz C., Kaplan S.
Analytical and Quantitative Cytopathology and Histopathology, vol.38, no.5, pp.295-300, 2016 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Penisilinle Oluşturulan Epileptiform Aktivite Sırasında Oluşan Total Oksidan ve Antioksidan Düzeylerine Minosiklinin Etkisi**
Tosun S., KOCACAN S. E., AYYILDIZ M., AĞAR E.
46. Ulusal Fiziyojji Kongresi, Turkey, 8 - 10 October 2021, pp.18
- II. **Sıçanlarda Penisilinle Oluşturulan Epileptiform Aktivite Üzerine Minosiklinin Etkisi**
Tosun S., KOCACAN S. E., AYYILDIZ M., AĞAR E.
46. Ulusal Fiziyojji Kongresi, Turkey, 8 - 10 October 2021, pp.60
- III. **5-HT7 Serotonin Reseptörünün Penisilinle Oluşturulan Epileptiform Aktivite Üzerine Etkisinde T-tipi Kalsiyum Kanallarının Rolü**
KOCACAN S. E., ARSLAN G., Rzayev E., AĞAR E., AYYILDIZ M.
46. Ulusal Fiziyojji Kongresi, Turkey, 8 - 10 October 2021, pp.16
- IV. **5-HT7 Serotonin Reseptörünün Penisilinle Oluşturulan Epileptiform Aktivitedeki Rolü**
KOCACAN S. E., ARSLAN G., Rzayev E., AĞAR E., AYYILDIZ M.
46. Ulusal Fiziyojji Kongresi, Turkey, 8 - 10 October 2021, pp.14
- V. **Effect of NAN-190 and Vilazodone Interaction on Penicillin-Induced Epileptiform Activity**
Hökelek H., KOCACAN S. E., AYYILDIZ M., AĞAR E.
45. Ulusal Fiziyojji Kongresi, 31 October - 03 November 2019, vol.227, pp.74
- 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 Fiziyojji Kongresi, 31 October - 03 November 2019, vol.227, pp.74
- VII. **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 Fiziyojji Kongresi, 31 October - 03 November 2019, vol.227, pp.104
- VIII. **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

- IX. **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
- X. **Investigation of the Interaction of Exenatide and Cannabinoid Receptors in Penicillin-Induced Epilepsy Model**
Jimal H. M., Yıldız A., KOCACAN S. E., AYYILDIZ M., HİM A.
45. Ulusal Fizyoloji Kongresi, 31 October - 03 November 2019, vol.227, pp.45
- XI. **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
- 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. **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
- XIV. **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
- XV. **Effects of P2X7 Receptors and T-type Calcium Channel Blocker NNC 55-0396 on Oxidative Parameters in Penicillin-induced Epileptiform Activity**
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
- XVI. **Effect of Exercise-Related Coenzyme Q10 Use on Epileptiform Activity in Rats**
KAYACAN Y., ÇERİT G., GHOJEBIGLOO B. E., KOCACAN S. E., AYYILDIZ M.
44. Ulusal Fizyoloji Kongresi, 1 - 04 November 2018, vol.225, pp.57
- XVII. **The Role of Nitrergic System in The Effect of Exenatide on Penicillin Induced Epileptiform Activity**
Yıldız A., KOCACAN S. E., HİM A.
44. Ulusal Fizyoloji Kongresi, 1 - 04 November 2018, vol.225, pp.59
- XVIII. **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
- XIX. **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.
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- XX. **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, Vienna, Austria, 13 - 15 September 2017, vol.221, pp.150
- XXI. **The role of P2X7 receptors in penicillin-induced epileptiform activity**
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FEPS 2017, Vienna, Austria, 13 - 15 September 2017, vol.221, pp.9-10
- XXII. **The role of P2X7 receptors in penicillin-induced epileptiform activity**
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- XXIII. **Exercise and L-tyrosine Supplementation on Penicillin-induced Epileptiform Activity in Rats**
KAYACAN Y., KISA E. C., GHOJEBIGLOO B. E., KOCACAN S. E., AYYILDIZ M.
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- XXIV. **E Vitamininin Kısa Süreli Anne Yoksunluğuna Maruz Bırakılan Sıçanlarda Penisilinle Oluşturulan Epileptiform Aktiviteye Etkisi**
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- XXV. **Medial vestibüler çekirdekte oksidatif stresle aktive edilen TRPM2 iyon kanallarının ekspresyonu**
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- XXVI. **Effect of vitamin E on the epileptiform activity induced by penicillin in rats with short-term maternal deprivation**
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- XXVII. **The Effect of P2X7 Receptor Antagonist A 438079 on Penicillin induced Epileptiform Activity**
ARSLAN G., KOCACAN S. E., AYYILDIZ M., RZAYEV E., AVCI B., AĞAR E.
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- XXVIII. **The Effect of Maternal Deprivation on Penicillin induced Epilepsy**
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- XXX. **Papaverin Penisilinle Oluşturulan Epileptiform Aktiviteyi Artırmaktadır**
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- XXXI. **Papaverine Increases Penicillin Induced Epileptiform Activity**
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- XXXII. **Investigation Of The Effects Of Omega 3 And Melatonin On Adult Rat Brain Exposed To Electromagnetic Field**
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BioEM 2015, California, United States Of America, 14 - 19 June 2015
- XXXIII. **Molsidomin penisilinle oluşturulan epileptiform aktiviteyi baskıladı**
KOCACAN S. E., MARANGOZ A. H., HİM A., MARANGOZ C.
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- XXXIV. **Erkek Sıçanlarda Sodyum Nitroprussidin penisilinle oluşturulan epileptiform aktiviteye etkisi**
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- XXXVII. **Sıçanda penisilinle oluşturulan epileptiform aktiviteye molsidominin etkisi**
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- XXXVIII. **The effect of kindling on pyramidal neuron number in hippocampus**
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