

ÖMER FARUK KALKAN

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Learning Knowledge

Under Graduate 2018 - Continues	Karadeniz Technical University, Batı Dilleri Ve Edebiyatı , İngiliz Dili Ve Edebiyatı, Turkey
Doctorate 2014 - 2017	Karadeniz Technical University, Tıp Fakültesi, Temel Tıp, Turkey
Doctorate 2012 - 2014	Ruprecht-Karls-Universitaet Heidelberg, Dkzf (German Cancer Research Center), Clinic Neurobiology, Germany
Doctorate 2011 - 2012	Karadeniz Technical University, Tıp Fakültesi, Temel Tıp, Turkey
Post Graduate 2009 - 2011	Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, Fizyoloji, Turkey

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Eğitim Formasyonu (Müfredat geliştirme, Öğrenme, Eğitim, Ölçme ve Değerlendirme Yöntemleri), KTÜ Tıp Fakültesi, 2019
Health&Medicine, Konfokal mikroskopi kullanım sertifikası, KTÜ Tıp Fakültesi, 2019
Health&Medicine, Tübitak Proje Hazırlama Kursu, Necmettin Erbakan Üniversitesi, 2017
Health&Medicine, Tübitak Proje Hazırlık Kursu, Karadeniz Teknik Üniversitesi, 2014
Health&Medicine, Felasa B Education for Experts for Laboratory animal science, University of Heidelberg, 2013
Health&Medicine, Nöroglia, Yeditepe Üniversitesi, 2011
Health&Medicine, Deney Hayvanları Kullanım Sertifikası, Karadeniz Teknik Üniversitesi, 2011

Dissertations

Doctorate, Diyabetik Nöropati ve Egzersiz: Diyabetik Nöropatik Ağrıya İrisinin Etkileri Üzerine Deneysel İnceleme, Karadeniz Technical University, Tıp Fakültesi, Temel Tıp Bilimleri, 2017

Academic Titles / Tasks

2018 - Continues	Karadeniz Technical University, Tıp Fakültesi, Temel Tıp Bilimleri
Assistant Professor 2017 - 2018	Karadeniz Technical University, Tıp Fakültesi, Temel Tıp Bilimleri
Research Assistant PhD 2012 - 2017	Karadeniz Technical University

Supported Projects

1. MENTEŞE A., AYAR A., KALKAN Ö. F. , YILDIRIM M., TUBITAK Project, Epilepside Ağrı Duyarlılığının Genetik Absans Epilepsili Sıçanlar Kullanılarak in-vivo ve in-vitro İncelenmesi, 2015 - 2018
2. AYAR A., KALKAN Ö. F. , Project Supported by Higher Education Institutions, Diyabetik Nöropati ve Egzersiz Diyabetik Nöropatik Ağrıya İrisinin Etkileri Üzerine Deneysel İnceleme, 2016 - 2017
3. KALKAN Ö. F. , AYAR A., TUBITAK Project, Nosiseptif periferel nöron hücre kültürü modelinde enkefalin yıkımlayıcı enzim inhibitörlerinin hücre içi kalsiyum sinyalleşmesine etkileri, 2010 - 2012

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. **Investigation of Effects of Two Chronic Stress Protocols on Depression-Like Behaviors and Brain Mineral Levels in Female Rats: an Evaluation of 7-Day Immobilization Stress.**
Sahin Z., Ozkirkculer A., Kalkan Ö. F. , Ozkaya A., Koc A., KOCA R. Ö. , Solak H., GÖRMÜŞ Z. I. S. , Kutlu S.
Biological trace element research, vol.199, pp.660-667, 2021 (Journal Indexed in SCI Expanded)
2. **Does irisin has neuroprotective effect against diabetes induced neuropathy in male rats?**
Kalkan Ö. F. , Aktaş O., Sürmeneli Y., Alver A., Özcan M., Şahin Z.
ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, 2020 (Journal Indexed in SCI)
3. **Chronic immobilization stress induces anxiety-related behaviors and affects brain essential minerals in male rats.**
Sahin Z., Ozkirkculer A., Kalkan Ö. F. , Ozkaya A., Koc A., Koca R., Solak H., Gormus Z., Kutlu S.
International journal for vitamin and nutrition research. Internationale Zeitschrift fur Vitamin- und Ernährungsforschung. Journal international de vitaminologie et de nutrition, pp.1-8, 2020 (Journal Indexed in SCI Expanded)
4. **Eight-Weeks of Treadmill Exercise Ameliorates Bladder Contractile Dysfunction in Diabetic Rats**
AYAR A., Guler V. K. , Yucel B. P. , KALKAN Ö. F.
ACTA PHYSIOLOGICA, vol.225, pp.66, 2018 (Journal Indexed in SCI)
5. **Ivabradine inhibits carbachol-induced contractions of isolated rat urinary bladder**
Aydin H. R. , Turgut H., Kurt A., Sahan R., KALKAN Ö. F. , Eren H., AYAR A.
ADVANCES IN CLINICAL AND EXPERIMENTAL MEDICINE, vol.27, no.7, pp.893-897, 2018 (Journal Indexed in SCI)
6. **Characterization of Intracellular Calcium Responses to Membrane Depolarization in Sensory Neurons from Absence Epileptic WAG/Rij Rats**
AYAR A., KALKAN Ö. F.
ACTA PHYSIOLOGICA, vol.221, pp.76, 2017 (Journal Indexed in SCI)
7. **Exercise restores diabetes-mediated contractile dysfunction of isolated rat seminal vesicle**
SURMENELI Y. E. , KURT A., KALKAN Ö. F. , YUCEL B. P. , KELES V., AYAR A.
ACTA PHYSIOLOGICA, vol.221, pp.62, 2017 (Journal Indexed in SCI)

8. **Eight-weeks of treadmill exercise ameliorates neuropathic pain in diabetic rats**
KALKAN Ö. F. , SURMENELI Y. E. , AKTAŞ O. , YUCEL B. P. , AYAR A.
ACTA PHYSIOLOGICA, vol.221, pp.194-196, 2017 (Journal Indexed in SCI)
9. **Effects of apelin-13 in mice model of experimental pain and peripheral nociceptive signaling in rat sensory neurons**
CANPOLAT S., ÖZCAN M., Saral S., KALKAN Ö. F. , AYAR A.
JOURNAL OF RECEPTORS AND SIGNAL TRANSDUCTION, vol.36, no.3, pp.243-247, 2016 (Journal Indexed in SCI)
10. **Spinorphin inhibits membrane depolarization- and capsaicin-induced intracellular calcium signals in rat primary nociceptive dorsal root ganglion neurons in culture**
AYAR A., ÖZCAN M., Kuzgun K. T. , KALKAN Ö. F.
JOURNAL OF RECEPTORS AND SIGNAL TRANSDUCTION, vol.35, no.6, pp.550-558, 2015 (Journal Indexed in SCI)
11. **Analgesic effects of mad honey (grayanotoxin) in mice models of acute pain and painful diabetic neuropathy**
GÜNDÜZ A., Eraydin I., Turkmen S., KALKAN Ö. F. , TÜREDİ S., Eryigit U., AYAR A.
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.33, no.2, pp.130-135, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

1. **Gonadotropin levels reduced in seven days immobilization stress-induced depressive-like behavior in female rats.**
Şahin Z., Ozkurkculer A., Kalkan Ö. F. , Bulmus F. G. , Bulmus O., Kutlu S.
Journal of basic and clinical physiology and pharmacology, 2021 (Refereed Journals of Other Institutions)
2. **An example of a misnomer in medicine: Choice of the term basal ganglia for the basal nuclei**
Şahin Z., Kalkan Ö. F. , Kutlu S.
Annals of Medical Research, vol.27, no.5, pp.1523-1527, 2020 (National Refereed University Journal)
3. **Comparison of the Effects of Immobilization Stress and Chronic Mild Stress Models on Depression-Related Behaviors in Female Rats: An Assessment of a 10-Day Stress Period**
Şahin Z., Koca R. Ö. , Solak H., Koç A., Kalkan Ö. F. , Kutlu S.
Fırat Üniversitesi Sağlık Bilimleri Tıp Dergisi, vol.33, no.3, pp.153, 2019 (National Refereed University Journal)
4. **Neurotoxicity evaluation of three root canal sealers on cultured rat trigeminal ganglion neurons**
ER K., AYAR A., Kalkan O., Canpolat S., TAŞDEMİR T., Ozan U.
Journal of Clinical and Experimental Dentistry, vol.9, no.1, 2017 (Refereed Journals of Other Institutions)
5. **Diyabetik Ayağın Fiziopatolojisinde Diyabetik Ayak Enfeksiyonları**
KALKAN Ö. F. , KARAKEÇİLİ F., KALKAN A.
Türkiye Klinikleri J Endocrin-Special Topics, vol.8, no.3, pp.18-24, 2015 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

1. **Epilepsy and Neuropathic Pain: Investigation of Pain Sensitivity in Sciatic Nerve Chronic Constriction Injury-Induced Neuropathic Pain Model in Absence Epileptic WAG/Rij Rats**
Malkoç A., Kalkan Ö. F. , Yücel B. P. , Saral E. N. , ŞAHİN Z., AYAR A.
Europhysiology2018, Londra, United Kingdom, 14 - 16 September 2018, pp.309
2. **Exercise restores diabetes-mediated contractiledysfunction of isolated rat seminal vesicle**
Sürmeneli Y. E. , KURT A., KALKAN Ö. F. , Yücel B. P. , Keleş V., AYAR A.
FEPS 2017- Joint Meeting of the Federation of European Physiological Societies and the Austrian Physiological Society with Participation of the Czech, French, Italian, Slovak, Slovenian, Swiss and Turkish Physiological Societies, Vienna, Austria, Viyana, Australia, 13 - 15 September 2017, vol.221, pp.63
3. **Eight-weeks of treadmill exercise ameliorates neuropathic pain in diabetic rats**
KALKAN Ö. F. , Surmeneli Y. E. , AKTAŞ O. , Yücel B. P. , AYAR A.

FEPS 2017 (joint meeting of the Federation of European Physiological Societies and the Austrian Physiological Society), Viyana, Austria, 12 - 15 September 2017, vol.221, no.713, pp.194-196

4. **Absans epileptik WAG/RİJ sıçanlardan izole edilen duyuşal sinir hücrelerinde membran depolarizasyonuna hücre içi kalsiyum cevaplarının belirlenmesi**
AYAR A., KALKAN Ö. F.
43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, pp.86
5. **Characterization of Intracellular Calcium Responses to Membrane Depolarization in Sensory Neurons from Absence Epileptic WAG/Rij Rats**
AYAR A., KALKAN Ö. F.
Türk Fizyolojik Bilimler Derneđi (TFBD) 43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, vol.221, pp.76
6. **INVESTIGATION OF SENSITIVITY OF OPIOID ANALGESIA IN ABSENCE EPILEPTIC WAG/RIJ RATS**
AYAR A., KALKAN Ö. F. , YÜCEL B. P.
IUPS 2017, Rio De Janeiro, Brazil, 1 - 05 September 2017, pp.64
7. **Investigation of Possible Alpha Adrenergic Modification of Acute Pain Sensitivity in Absence Epileptic WAG/Rij Rats**
AYAR A., KALKAN Ö. F. , KURT A., GEDİKLİ Ö., VELİOĐLU S., YILDIRIM M.
Physiology 2016, Dublin, Ireland, 29 - 31 July 2016, pp.37
8. **Neurotoxicity of various endodontic sealers on cultured rat TG neurons**
Er K., AYAR A., KALKAN Ö. F. , Canpolat S., TAŞDEMİR T., Ozan Ü.
7th International Association for Dental Research/Pan European Regional Congress, Dubrovnik, Croatia, 10 - 13 September 2014, pp.1
9. **Physiological Performance Profiles Of Turkish Olympic Water Canoe Team**
AYAN V., BEKTAŞ F., KALKAN O., CANPOLAT S., AYAR A.
The Physiological Society, Edinburgh, United Kingdom, 10 - 14 October 2012, pp.170
10. **Physiological performance profiles of Turkish Olympic water canoe team**
AYAN V., BEKTAŞ F., KALKAN Ö. F. , CANPOLAT S., AYAR A.
Physiology 2012, Edinburgh, Scotland, 2 - 05 July 2012, pp.27
11. **Enkephalinase inhibitors attenuates adenosine triphosphate-induced increase of intracellular calcium in cultured rat dorsal root ganglion neurons**
AYAR A., ÖZCAN M., KALKAN Ö. F.
Physiology 2012, Edinburgh, Scotland, 2 - 05 July 2012, pp.27
12. **Melatoninin kapsaisinle uyarılmış hücre içi kalsiyum sinyalleri üzerine etkisinin kültüre sıçan dorsal kök gangliyon sinir hücrelerinde incelenmesi**
ÖZCAN M., KALKAN Ö. F. , AYAR A.
10. Ulusal Sinir Bilim Kongresi, İstanbul, Turkey, 9 - 12 April 2012, pp.106
13. **The Endogenous Salivary Peptide Opiorphin Inhibits Ca²⁺ Signalling in Rat Primary Sensory Neurons**
AYAR A., ÖZCAN M., KALKAN Ö. F.
Physiology 2011, Oxford, United Kingdom, 11 - 14 July 2011, pp.23
14. **Melatonin Inhibits Membrane Depolarisation-Induced Calcium Signals in Cultured Rat Trigeminal Ganglion Neurons**
KALKAN Ö. F. , KAÇAR E., ÖZCAN M., AYAR A.
Physiology 2011, Oxford, United Kingdom, 11 - 14 July 2011, pp.23
15. **Effects of levosimendan on diabetes-induced neuropathic pain in a mice model**
KALKAN Ö. F. , AYAR A.
Turkish FEPS Physiology meeting 2011, İstanbul, Turkey, 3 - 07 July 2011, pp.46
16. **Apelin-13'ün periferel nosiseptif sinyalleşme üzerine etkilerinin izole sıçan duysal sinir hücrelerinde incelenmesi**
ÖZCAN M., KALKAN Ö. F. , KUTLU S., AYAR A.
10. Ulusal Sinir Bilim Kongresi, İstanbul, Turkey, 9 - 12 April 2011, pp.102

Memberships / Tasks in Scientific Organizations

Türk Fizyolojik Bilimler Derneđi, Member, 2017 - Continues

Scientific Refereeing

INTERNATIONAL JOURNAL OF NEUROSCIENCE, SCI Journal, November 2020

Citations

Total Citations (WOS):14

h-index (WOS):2

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Human Physiology, Neurophysiology