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Personal Information

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Education Information

Expertise In Medicine, Marmara University, School Of Medicine, Basic Medical Sciences, Turkey 2003 - 2009

Under Graduate, Marmara University, School Of Medicine, Turkey 1995 - 2001

Foreign Languages

English, C2 Proficiency

Dissertations

Expertise In Medicine, Kindling uyarısı alan genetik absans epileptik sıçanlarda (GEARS) hipokampal granüler tabakada nöronal hasar ve mossy terminallerinde GABA değerlendirilmesi, Marmara University, Sağlık Bilimleri Enstitüsü, Histoloji-Embriyoloji Anabilim Dalı, 2009

Research Areas

Health Sciences, Natural Sciences

Academic Titles / Tasks

Associate Professor, Marmara University, School of Medicine, 2015 - Continues

Research Assistant, Marmara University, School of Medicine, Basic Medical Sciences, 2003 - 2014

Professional Experience

Ethics Committee Member, Marmara University, School Of Medicine, Basic Medical Sciences, 2019 - Continues

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

- I. **An alginate-poly(acrylamide) hydrogel with TGF- β 3 loaded nanoparticles for cartilage repair: Biodegradability, biocompatibility and protein adsorption.**
Saygili E., Kaya E., Ilhan-Ayisigi E., Saglam-Metiner P., Alarcin E., Kazan A., Girgic E., Kim Y., Gunes K., Eren-Ozcan G. G., et al.
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- II. **Neuropeptide-W Protects Against Stress-Induced Gastric Ulcer in Rats via the Involvement of**

Capsaicin-Sensitive Vagal Afferent Fibers

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- III. **Is quail egg a potential endocrine disrupter?**
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- IV. **Accelerated diabetic wound healing by topical application of combination oral antidiabetic agents-loaded nanofibrous scaffolds: An in vitro and in vivo evaluation study**
Cam M. E. , ERTAŞ B., Alenezi H., Hazar-Yavuz A. N. , Cesur S., Ozcan G. S. , Ekentok C., Guler E., Katsakouli C., Demirbas Z., et al.
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- V. **High intensity interval training protects from Post Traumatic Stress Disorder induced cognitive impairment**
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- VI. **Evaluation of burst release and sustained release of pioglitazone-loaded fibrous mats on diabetic wound healing: an in vitro and in vivo comparison study**
Cam M. E. , Yildiz S., Alenezi H., Cesur S., Ozcan G., Erdemir G., Edirisinghe U., Akakin D., Kuruca D., Kabasakal L., et al.
JOURNAL OF THE ROYAL SOCIETY INTERFACE, vol.17, no.162, 2020 (Journal Indexed in SCI)
- VII. **Oestrogen receptor ER α and ER β agonists ameliorate oxidative brain injury and improve memory dysfunction in rats with an epileptic seizure.**
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Experimental physiology, vol.104, pp.1911-1928, 2019 (Journal Indexed in SCI Expanded)
- VIII. **Neuroprotective effects of mildronate in a rat model of traumatic brain injury**
Demir D., Kuru Bektaşoğlu P., KOYUNCUOĞLU T., Kandemir C., AKAKIN D., YÜKSEL M., Çelikoğlu E., YEGEN B., Gürer B.
INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED, vol.50, no.10, pp.1586-1592, 2019 (Journal Indexed in SCI)
- IX. **Investigation of Astaxanthin Effect on Cisplatin Ototoxicity in Rats by Using Otoacoustic Emission, Total Antioxidant Capacity, and Histopathological Methods**
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- X. **Effects of High Intensity Interval versus Continuous Moderate Intensity Training on Post Traumatic Stress Disorder Induced Cognitive Impairment in Rats**
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- XI. **Melatonin improves hyperglycemia induced damages in rat brain**
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- XII. **Ameliorative effects of riboflavin on acetic acid-induced colonic injury in rats**
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CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, vol.45, no.6, pp.563-572, 2018 (Journal Indexed in SCI)
- XIII. **Evaluation of the possible protective role of naringenin on gentamicin-induced ototoxicity: A preliminary study**
Kocak I., Sarac S., Aydogan E., Senturk E., Akakin D., Koroglu K., Ozer O. F.
INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY, vol.100, pp.247-253, 2017 (Journal Indexed in SCI)
- XIV. **Effects of estrogen and androgen on seizure-induced oxidative brain damage in rats**

- KOYUNCUOĞLU T., ARABACI TAMER S., KARAGÖZ A., AKAKIN D., YÜKSEL M., ERZİK C., YEGEN B.
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- XV. **Functional and structural changes of the urinary bladder following spinal cord injury; treatment with alpha lipoic acid**
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- XVI. **Obestatin improves oxidative brain damage and memory dysfunction in rats induced with an epileptic seizure**
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- XVII. **Protective effect of alpha-lipoic acid, aerobic or resistance exercise from colitis in second hand smoke exposed young rats**
ÖZBEYLİ D., Berberoglu A. C. , Ozen A., Erkan O., Basar Y., ŞEN T., AKAKIN D., YÜKSEL M., Cakir Ö.
CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, vol.44, no.1, pp.62-70, 2017 (Journal Indexed in SCI)
- XVIII. **Low dose caffeine protects from psychological stress and improves cognitive function**
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- XIX. **Protective effect of low dose caffeine on psychological stress and cognitive function**
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- XX. **Ethanol extract of Cotinus coggygia leaves accelerates wound healing process in diabetic rats**
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- XXI. **The Effects of Caffeine Application Before Psychological Stress on Anxiety Level and Cognitive Functions**
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- XXII. **The Combination of Nesfatin-1 and Phenytoin Has a Synergistic Effect in Improving Seizure-induced Neuronal Damage and Memory Dysfunction in Rats**
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- XXV. **Anti-inflammatory effects of nesfatin-1 in rats with acetic acid induced colitis: role of ghrelin receptors**
Ozturk C. C. , Oktay S., YÜKSEL M., AKAKIN D., YARAT A., KASIMAY ÇAKIR Ö.
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- XXVI. **Protective effect of exercise and sildenafil on acute stress and cognitive function**
ÖZBEYLİ D., Gokalp A. G. , Koral T., Ocal O. Y. , Dogan B., AKAKIN D., YÜKSEL M., KASIMAY ÇAKIR Ö.
PHYSIOLOGY & BEHAVIOR, vol.151, pp.230-237, 2015 (Journal Indexed in SCI)
- XXVII. **The protective effects of obestatin on oxidative brain damage of rats with pentylenetetrazol (PTZ)-induced epileptic seizures**
KOYUNCUOĞLU T., Uren D., Yildirim C., Atal S. S. , Vizdiklar C., Yilmaz H., Demirci E. K. , AKAKIN D., YÜKSEL M.,

- YEGEN B.
ACTA PHYSIOLOGICA, vol.215, pp.5, 2015 (Journal Indexed in SCI)
- XXVIII. **ANTI-INFLAMMATORY EFFECTS OF NESFATIN-1 IN RATS WITH ACETIC ACID - INDUCED COLITIS AND UNDERLYING MECHANISMS**
CC Ö., OKTAY N. Ş. , Yüksel M., Akakin D., YARAT A., Kasımay Çakır Ö.
JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, vol.66, no.5, pp.741-750, 2015 (Journal Indexed in SCI)
- XXIX. **Protective Effect of Alpha Lipoic Acid, Aerobic or Resistance Exercise from Colitis in Passive Cigarette Smoking Young Rats**
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- XXX. **Intravesical hyaluronic acid treatment improves bacterial cystitis and reduces cystitis-induced hypercontractility in rats**
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- XXXI. **Ameliorative Effect of Chronic Moderate Exercise in Smoke Exposed or Nicotine Applied Rats From Acute Stress**
Kuru P., Bilgin S., Mentese S. T. , Tazegul G., Ozgur S., Cilingir O. T. , AKAKIN D., YARAT A., KASIMAY ÇAKIR Ö.
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- XXXII. **Three dimensional anatomical microdissection of rat brain using fiber dissection technique**
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- XXXIII. **Minced Nerve Tissue in Vein Grafts Used as Conduits in Rat Tibial Nerves**
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- XXXIV. **Nasal septal turbinate: Cadaveric study**
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- XXXV. **Comparison of numbers of interneurons in three thalamic nuclei of normal and epileptic rats**
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- XXXVI. **Obestatin alleviates subarachnoid haemorrhage-induced oxidative injury in rats via its anti-apoptotic and antioxidant effects**
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- XXXVII. **Effects of montelukast sodium on tendon healing: An experimental study**
Polat A., Canbora M. K. , AKAKIN D., Aykanat F.
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- XXXVIII. **Reduced densities of parvalbumin- and somatostatin-expressing interneurons in experimental cortical dysplasia and heterotopia in early postnatal development**
Akakin D., Martinez-Diaz H., Chen H., Roper S. N.
EPILEPSY RESEARCH, vol.104, no.3, pp.226-233, 2013 (Journal Indexed in SCI)
- XXXIX. **Protective effects of melatonin against spinal cord injury induced oxidative damage in rat kidney: A morphological and biochemical study**
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- XL. **Montelukast inhibits caspase-3 activity and ameliorates oxidative damage in the spinal cord and urinary bladder of rats with spinal cord injury**
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- XLI. **The Effect of Perineurotomy on Nerve Regeneration in Diabetic Rats**
Sahin C., Karagoz H., Yuksel F., Kulahci Y., Akakin D., Dagbasi N., Sever C., Ulkur E.

- PLASTIC AND RECONSTRUCTIVE SURGERY, vol.130, no.5, 2012 (Journal Indexed in SCI)
- XLII. **Vascular endothelial growth factor-loaded poly(lactic-co-glycolic acid) microspheres-induced lateral axonal sprouting into the vein graft bridging two healthy nerves: Nerve graft prefabrication using controlled release system**
Karagoz H., Ulkur E., KERİMOĞLU O., ALARÇIN E., Sahin C., AKAKIN D., Dortunc B.
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- XLIII. **Topical glucocorticoid reduces the topical decongestant-induced histologic changes in an animal model nasal mucosa**
Akpınar M. E. , Yigit O., AKAKIN D., Sarioz O., ÖZKAN N., Yildiz S. D. , Azizli E., ŞEHİRLİ Ü. S.
LARYNGOSCOPE, vol.122, no.4, pp.741-746, 2012 (Journal Indexed in SCI)
- XLIV. **Melatonin treatment protects against spinal cord injury induced functional and biochemical changes in rat urinary bladder**
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- XLV. **Topical Decongestants and Glucocorticosteroids Interaction in nasal mucosa of animal model**
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- XLVI. **Effect of extremely low frequency electromagnetic fields on growth rate and morphology of bacteria**
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- XLVII. **Ghrelin Alleviates Spinal Cord Injury in Rats Via Its Anti-inflammatory Effects**
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- XLVIII. **Glutamic Acid Decarboxylase Immunoreactivity in the Mossy Fiber Terminals of the Hippocampus of Genetic Absence Epileptic Rats**
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- XLIX. **Intravesical hyaluronic acid treatment improves bacterial cystitis and reduces cystitis-induced hypercontractility in rats**
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- L. **The Novel Function of Nesfatin-1 as an Anti-inflammatory and Antiapoptotic Peptide in Subarachnoid Hemorrhage-Induced Oxidative Brain Damage in Rats**
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- LI. **Effects of Parenteral Nutritional Support with Fish-Oil Emulsion on Spinal Cord Recovery in Rats with Traumatic Spinal Cord Injury**
Emon S. T. , Irban A. G. , Bozkurt S. U. , AKAKIN D., Konya D., Ozgen S.
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- LII. **Ultrastructural GABA immunocytochemistry in the mossy fiber terminals of Wistar and genetic absence epileptic rats receiving amygdaloid kindling stimulations**
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- LIII. **The effects of Nigella sativa against oxidative injury in a rat model of subarachnoid hemorrhage**
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- LIV. **Neuroprotective Effects of Alpha-Lipoic Acid in Experimental Spinal Cord Injury in Rats**
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- LV. **The anti-inflammatory and neuroprotective effects of ghrelin in subarachnoid hemorrhage-induced**

oxidative brain damage in rats.

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LVI. Posterior epidural disc herniation at L3-L4 mimicking a spinal tumor: a case report

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LVII. Long-Term Potentiation of Excitatory Synapses on Neocortical Somatostatin-Expressing Interneurons

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LVIII. The effects of inflammatory response associated with traumatic spinal cord injury in cutaneous wound healing and on expression of transforming growth factor-beta1 (TGF-beta(1)) and platelet-derived growth factor (PDGF)-A at the wound site in rats

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LIX. Ghrelin ameliorates pancreaticobiliary inflammation and associated remote organ injury in rats

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LX. Melatonin protects against pancreaticobiliary inflammation and associated remote organ injury in rats: Role of neutrophils

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II. Investigation of the neuroprotective effect of mildronate in the rat model of traumatic brain injury

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III. The Protective Effect Of Thymol Against Cisplatin-Induced Ototoxicity: An Experimental Animal Study

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Books & Book Chapters

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III. 12. Bölüm Lenfoid Doku

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in: Hücre Biyolojisi ve Histoloji, Çeviri Editörü: Canan Hürdağ, Editor, İstanbul Tıp Kitabevi, pp.199-220, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **The role of alpha-2c adrenoceptors in ketamine-induced schizophrenia rat model**
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Meeting of the British-Pharmacological-Society, Edinburgh, Saint Helena, 15 - 17 December 2019, vol.177, pp.2637
- II. **Serebral Palsi Modeli Oluşturulmuş Yenidoğan Sıçanlarda Nöropeptit W'nin Nöroprotektif Etkileri**
KOYUNCUOĞLU T., İPEK B. E. , Kuntsal Dertsiz E., AKAKIN D., YÜKSEL M., YEGEN B.
45. Ulusal Fizyoloji Kongresi, Turkey, 31 October - 03 November 2019
- III. **Protective Effects of Neuropeptide-W on Stress-Induced Gastric Ulcer in Rats**
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45th National Physiology Congress, Turkey, 31 October - 03 November 2019
- IV. **Experimental Parkinson Disease (PD) Alters Severity of Colitis in Rats**
seçil f., can h. e. , karakoç h. f. , dalgıç n., büyükyılmaz s., ÖZDEMİR KUMRAL Z. N. , ARABACI TAMER S., şen l. s. ,
KARAGÖZ KÖROĞLU A., AKAKIN D., et al.
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- V. **Effects of Weekend Warrior and Continuous Exercise Models on Depression Induced Cognitive Impairment**
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KOYUNCUOĞLU T., Uren D., Yildirim C., Atal S. S. , Vizdiklar C., Yilmaz H., KERVANCIOĞLU DEMİRCİ E., YÜKSEL M., AKAKIN D., YEGEN B.
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