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International Researcher IDs

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Education Information

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

Undergraduate, Marmara University, School of Medicine, Turkey 1995 - 2001

Foreign Languages

English, C2 Mastery

Dissertations

Expertise In Medicine, Kindling uyarısı alan genetik absans epileptik sıçanlarda (GEARS) hipokampal granüler tabakada nöronal hasar ve mossy terminallerinde GABA değerlendirilmesi, Marmara University, Institute of Health Sciences, Department of Histology-Embryology, 2009

Research Areas

Health Sciences, Natural Sciences

Academic Titles / Tasks

Associate Professor, Marmara University, School of Medicine, Basic Medical Sciences, 2015 - Continues

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

Academic and Administrative Experience

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

Published journal articles indexed by SCI, SSCI, and AHCI

1. Gilaburu (*Viburnum opulus* L.) fruit extract has potential therapeutic and prophylactic role in a rat

model of acetic acid-induced oxidant colonic damage

Gülada B. Ö., ÇAM M. E., YÜKSEL M., AKAKIN D., TAŞKIN T., EMRE G., Şener G., Karakoyun B.
Journal of Ethnopharmacology, vol.322, 2024 (SCI-Expanded)

- II. **Histological and biochemical effects of an ethanolic extract of Myrtus communis leaf on the pancreases of rats fed high fat diets**
Kabatas G. S., Ertaş B., Şen A., Sener G., Ercan F., Akakın D.
Biotechnic and Histochemistry, 2024 (SCI-Expanded)
- III. **SARS-CoV-2 Causes Brain Damage: Therapeutic Intervention with AZD8797**
Demirci E., Onen E., Yılmaz E., Koroglu A., Akakin D.
MICROSCOPY AND MICROANALYSIS, vol.29, pp.2161-2173, 2023 (SCI-Expanded)
- IV. **Effects of sodium fluoride on neural tube development in chick embryos**
Mammadov M., Emon S. T., Akar E., AKAKIN D., Şener D.
Neurochirurgie, vol.69, no.6, 2023 (SCI-Expanded)
- V. **Antioxidant and neuroprotective effects of dexpanthenol in rats induced with traumatic brain injury**
Kuru Bektaşoğlu P., Koyuncuoğlu T., Özyayın D., Kandemir C., Akakın D., Yüksel M., Gürer B., Çelikoğlu E., Yeğen B.
INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED, vol.54, no.4, pp.1065-1070, 2023 (SCI-Expanded)
- VI. **Cotinus coggygia Scop. Attenuates Acetic Acid-Induced Colitis in Rats by Regulation of Inflammatory Mediators**
Şen A., Ertaş B., Çevik Ö., Yıldırım A., Gökçeoğlu-Kayalı D., Akakın D., Bitiş L., Şener G.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY - PART A ENZYME ENGINEERING AND BIOTECHNOLOGY, vol.0, no.0, pp.1-16, 2023 (SCI-Expanded)
- VII. **The effects of long-term prenatal exposure to 900, 1800, and 2100 MHz electromagnetic field radiation on myocardial tissue of rats**
Bozok S., Karaagac E., Sener D., Akakın D., Tümkaya L.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.39, no.1, pp.1-9, 2023 (SCI-Expanded)
- VIII. **Anti-Inflammatory, Antioxidant and Neuroprotective Effects of Niacin on Mild Traumatic Brain Injury in Rats**
Ozaydin D., Bektasoglu P. K., Koyuncuoglu T., Ozkaya S. C., Koroglu A. K., AKAKIN D., ERZİK C., YÜKSEL M., YEGEN B., Gurer B.
Turkish Neurosurgery, vol.33, no.6, pp.1028-1037, 2023 (SCI-Expanded)
- IX. **Possible anti-inflammatory, antioxidant, and neuroprotective effects of apigenin in the setting of mild traumatic brain injury: an investigation***
Kuru Bektasoglu P., Demir D., Koyuncuoglu T., YÜKSEL M., PEKER EYÜBOĞLU İ., Karagoz Koroglu A., AKAKIN D., Yildirim A., Celikoglu E., Gurer B.
IMMUNOPHARMACOLOGY AND IMMUNOTOXICOLOGY, vol.45, no.2, pp.185-196, 2023 (SCI-Expanded)
- X. **Peripheral administration of Neuropeptide-W protects against stress-induced gastric injury in rats**
Arabacı Tamer S., Akbulut S., Peker Eyüboğlu İ., Erdoğan Ö., Çevik Ö., Akkiprik M., Akakın D., Yeğen B.
LIFE SCIENCES, vol.310, 2022 (SCI-Expanded)
- XI. **The alpha 2C-adrenoceptor antagonist JP-1302 controls behavioral parameters, tyrosine hydroxylase activity and receptor expression in a rat model of ketamine-induced schizophrenia-like deficits**
Tekin N., Karamahmutoğlu T., Aykaç A., AKAKIN D., GÖREN M. Z.
PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR, vol.221, 2022 (SCI-Expanded)
- XII. **Phoenixin 14 ameliorates pancreatic injury in streptozotocin-induced diabetic rats by alleviating oxidative burden**
ÖZDEMİR KUMRAL Z. N., Sen E., Yapici H. B., Atakul N., Domruk O. F., Aldag Y., Sen L. S., Mustafaoglu F. K., YÜKSEL M., AKAKIN D., et al.
JOURNAL OF PHARMACY AND PHARMACOLOGY, vol.74, no.11, pp.1651-1659, 2022 (SCI-Expanded)
- XIII. **Duration of Ciprofloxacin Use Is Important in the Development of Abdominal Aortic Aneurysm in a Rat Model**

Çulpan Y., Keçeci İ., Sandıkçı İ., Gökçe Ş., Göker H., ÖZYILMAZ YAY N., ERGELEN R., AKAKIN D., GÜLHAN R.
Anatolian journal of cardiology, vol.26, no.11, pp.810-817, 2022 (SCI-Expanded)

- XIV. **Irisin protects against neuroinflammation in rats induced by epileptic seizure**
Ozdemir-Kumral Z. N., Akgun T., Hasim C., Ulusoy E., Yuksel F., Kalpakcioglu M. K., Okumus T., Uslu Z., Akakin D., Goren Z., et al.
ACTA PHYSIOLOGICA, vol.236, pp.799-801, 2022 (SCI-Expanded)
- XV. **Nesfatin-1 ameliorates oxidative brain damage and memory impairment in rats induced with a single acute epileptic seizure**
Arabacı Tamer S., Koyuncuoğlu T., Karagöz Köroğlu A., AKAKIN D., YÜKSEL M., YEGEN B.
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- XVI. **Bilayered laponite/alginate-poly(acrylamide) composite hydrogel for osteochondral injuries enhances macrophage polarization: An in vivo study**
Saygili E., Sağlam-Metiner P., Cakmak B., ALARÇIN E., Beceren G., Tulum P., Kim Y., GÜNEŞ K., Eren-Ozcan G. G., AKAKIN D., et al.
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- XVII. **Neuroprotective Effect of Plasminogen Activator Inhibitor-1 Antagonist in the Rat Model of Mild Traumatic Brain Injury**
Bektasoglu P. K., Koyuncuoglu T., Akbulut S., AKAKIN D., Eyuboglu I. P., ERZİK C., YÜKSEL M., KURTEL H.
ACTA PHYSIOLOGICA, vol.234, pp.33, 2022 (SCI-Expanded)
- XVIII. **Neuroprotective Effect of Plasminogen Activator Inhibitor-1 Antagonist in the Rat Model of Mild Traumatic Brain Injury**
Kuru Bektasoglu P., Koyuncuoglu T., Akbulut S., AKAKIN D., Eyuboglu İ., ERZİK C., YÜKSEL M., KURTEL H.
INFLAMMATION, vol.44, no.6, pp.2499-2517, 2021 (SCI-Expanded)
- XIX. **Is quail egg a potential endocrine disruptor?**
Sürekli Karakuş Ö., Arabacı Tamer S., Levent H. N., Kaygusuz S. B., Demircioğlu S., Akakin D., Güran T., Yegen B., Bereket A.
HORMONE RESEARCH IN PAEDIATRICS, vol.94, no.SUPPL 1, pp.364, 2021 (SCI-Expanded)
- XX. **Neuroprotective Effect of Cinnamaldehyde on Secondary Brain Injury After Traumatic Brain Injury in a Rat Model**
Bektasoglu P. K., Koyuncuoglu T., Demir D., Sucu G., AKAKIN D., Eyuboglu İ., YÜKSEL M., Celikoglu E., YEGEN B., Gurer B.
WORLD NEUROSURGERY, vol.153, 2021 (SCI-Expanded)
- XXI. **DELAYED GASTRIC EMPTYING IN NEWBORN RATS WITH HYPOXIC-ISCHEMIC ENCEPHALOPATHY IS FACILITATED BY NEUROPEPTIDE W TREATMENT**
Koyuncuoglu T., Ipek B. E., Dertsiz E. K., Akakin D., Yegen B.
GASTROENTEROLOGY, vol.160, no.6, 2021 (SCI-Expanded)
- XXII. **Neuropeptide-W Protects Against Stress-Induced Gastric Ulcer in Rats via the Involvement of Capsaicin-Sensitive Vagal Afferent Fibers**
ARABACI TAMER S., Akbulut S., AKAKIN D., Eyupoglu I. P., AKKİPRİK M., YEGEN B.
NEUROENDOCRINOLOGY, vol.111, pp.15-16, 2021 (SCI-Expanded)
- XXIII. **An alginate-poly(acrylamide) hydrogel with TGF-beta 3 loaded nanoparticles for cartilage repair: Biodegradability, biocompatibility and protein adsorption**
Saygili E., Kaya E., İlhan-Ayisigi E., Sağlam-Metiner P., Alarcin E., Kazan A., Girgic E., Kim Y., Gunes K., Eren-Ozcan G. G., et al.
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- XXIV. **Is quail egg a potential endocrine disrupter?**
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- XXV. **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.

MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.119, 2021 (SCI-Expanded)

- XXVI. **High intensity interval training protects from Post Traumatic Stress Disorder induced cognitive impairment**
KOYUNCUOĞLU T., Sevim H., Cetrez N., Meral Z., Gonenc B., Dertsiz E. K., AKAKIN D., YÜKSEL M., KASIMAY ÇAKIR Ö.
BEHAVIOURAL BRAIN RESEARCH, vol.397, 2021 (SCI-Expanded)
- XXVII. **Electromagnetic Waves from Mobile Phones may Affect Rat Brain During Development**
AKAKIN D., Tok O. E., Anil D., Akakin A., ŞİRVANCI S., Sener G., ERCAN F.
TURKISH NEUROSURGERY, vol.31, no.3, pp.412-421, 2021 (SCI-Expanded)
- XXVIII. **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 (SCI-Expanded)
- XXIX. **Oestrogen receptor ER α and ER β agonists ameliorate oxidative brain injury and improve memory dysfunction in rats with an epileptic seizure.**
Koyuncuoğlu T., Tamer S., Erzik C., Karagöz A., Akakin D., Yüksel M., Yeğen B.
Experimental physiology, vol.104, pp.1911-1928, 2019 (SCI-Expanded)
- XXX. **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 (SCI-Expanded)
- XXXI. **Investigation of Astaxanthin Effect on Cisplatin Ototoxicity in Rats by Using Otoacoustic Emission, Total Antioxidant Capacity, and Histopathological Methods**
Kinal M. E., Tatlipinar A., Uzun S., Keskin S., Tekdemir E., ÖZBEYLİ D., AKAKIN D.
ENT-EAR NOSE & THROAT JOURNAL, 2019 (SCI-Expanded)
- XXXII. **Effects of High Intensity Interval versus Continuous Moderate Intensity Training on Post Traumatic Stress Disorder Induced Cognitive Impairment in Rats**
KOYUNCUOĞLU T., Meral Z., Cetrez N., Gonenc B., Sevim H., Dertsiz E. K., AKAKIN D., YÜKSEL M., Cakir Ö.
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- XXXIII. **Melatonin improves hyperglycemia induced damages in rat brain**
Gurel-Gokmen B., IPEKCI H., OKTAY N. Ş., ALEV B., USTUNDAG U. V., AK E., AKAKIN D., ŞENER G., Emekli-Alturfan E. I., YARAT A., et al.
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- XXXIV. **Ameliorative effects of riboflavin on acetic acid-induced colonic injury in rats**
Karakoyun B., ERTAŞ B., YÜKSEL M., AKAKIN D., ÇEVİK Ö., ŞENER G.
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- XXXV. **LOW DOSE CAFFEINE PROTECTS FROM PSYCHOLOGICAL STRESS AND IMPROVES COGNITIVE FUNCTION**
Cakir O. K., Ellek N., Salehin N., Hamamci R., Keles H., Kayali D. G., Akakin D., Yuksel M., Ozbeyli D.
ACTA PHYSIOLOGICA, vol.221, pp.240-242, 2017 (SCI-Expanded)
- XXXVI. **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.
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- XXXVII. **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.
An International Journal of Experimental and Clinical Anatomy, vol.11, 2017 (SCI-Expanded)

- XXXVIII. **Functional and structural changes of the urinary bladder following spinal cord injury; treatment with alpha lipoic acid**
Ekiz A, ÖZDEMİR KUMRAL Z. N., ERŞAHİN M., Tugtepe H., VELİOĞLU ÖĞÜNÇ A., AKAKIN D., Kiran D., ÖZSAVCI D., Biber N., Hakan T., et al.
NEUROUROLOGY AND URODYNAMICS, vol.36, no.4, pp.1061-1068, 2017 (SCI-Expanded)
- XXXIX. **Obestatin improves oxidative brain damage and memory dysfunction in rats induced with an epileptic seizure**
KOYUNCUOĞLU T., Vizdiklar C., Uren D., Yilmaz H., YILDIRIM Ç., Atal S. S., AKAKIN D., Demirci E. K., YÜKSEL M., YEGEN B.
PEPTIDES, vol.90, pp.37-47, 2017 (SCI-Expanded)
- XL. **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 (SCI-Expanded)
- XLI. **Protective effect of low dose caffeine on psychological stress and cognitive function**
Cakir Ö., Ellek N., Salehin N., Hamamci R., Keles H., Kayali D. G., AKAKIN D., YÜKSEL M., ÖZBEYLİ D.
PHYSIOLOGY & BEHAVIOR, vol.168, pp.1-10, 2017 (SCI-Expanded)
- XLII. **Low dose caffeine protects from psychological stress and improves cognitive function**
KASIMAY ÇAKIR Ö., ellek n., salehin n., hamamci r., keleş h., kayalı d., AKAKIN D., YÜKSEL M., ÖZBEYLİ D.
Acta Physiologica, 2017 (SCI-Expanded)
- XLIII. **Ethanol extract of Cotinus coggygia leaves accelerates wound healing process in diabetic rats**
Aksoy H., ŞEN A., SANCAR M., ŞEKERLER T., AKAKIN D., BİTİŞ L., Uras F., Kultur S., Izzettin F. V.
PHARMACEUTICAL BIOLOGY, vol.54, no.11, pp.2732-2736, 2016 (SCI-Expanded)
- XLIV. **The Effects of Caffeine Application Before Psychological Stress on Anxiety Level and Cognitive Functions**
Keles H., Hamamci R., Ellek N., Salehin N., ÖZBEYLİ D., YÜKSEL M., AKAKIN D., Gokceoglu D., Cakir O. K.
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- XLV. **The Combination of Nesfatin-1 and Phenytoin Has a Synergistic Effect in Improving Seizure-induced Neuronal Damage and Memory Dysfunction in Rats**
Tamer S. A., KOYUNCUOĞLU T., Karagoz A., AKAKIN D., Erzik C., YÜKSEL M., YEGEN B.
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- XLVI. **Therapeutic effects of nesfatin 1 on oxidative brain damage and memory dysfunction in rats induced with epileptic seizures**
KOYUNCUOĞLU T., ARABACI TAMER S., KARAGÖZ A., AKAKIN D., YÜKSEL M., YARAT A., YEGEN B.
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- XLVII. **The effect of topical ethanol extract of Cotinus coggygia Scop. on cutaneous wound healing in rats**
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NATURAL PRODUCT RESEARCH, vol.30, no.4, pp.452-455, 2016 (SCI-Expanded)
- XLVIII. **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 (SCI-Expanded)
- XLIX. **Anti-inflammatory effects of nesfatin-1 in rats with acetic acid induced colitis: role of ghrelin receptors**
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- L. **The protective effects of obestatin on oxidative brain damage of rats with pentylentetrazol (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.
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- LI. **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 (SCI-Expanded)

- LII. **Protective Effect of Alpha Lipoic Acid, Aerobic or Resistance Exercise from Colitis in Passive Cigarette Smoking Young Rats**
ÖZBEYLİ D., ŞEN T., Ozen A., Berberoglu A. C., Erkan O., Basar Y., AKAKIN D., YÜKSEL M., KASIMAY ÇAKIR Ö.
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- LIII. **Intravesical hyaluronic acid treatment improves bacterial cystitis and reduces cystitis-induced hypercontractility in rats**
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- LIV. **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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- LV. **Three dimensional anatomical microdissection of rat brain using fiber dissection technique**
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- LVI. **Minced Nerve Tissue in Vein Grafts Used as Conduits in Rat Tibial Nerves**
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- LVII. **Nasal septal turbinate: Cadaveric study**
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- LVIII. **Comparison of numbers of interneurons in three thalamic nuclei of normal and epileptic rats**
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- LIX. **Obestatin alleviates subarachnoid haemorrhage-induced oxidative injury in rats via its anti-apoptotic and antioxidant effects**
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- LX. **Effects of montelukast sodium on tendon healing: An experimental study**
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- LXI. **Reduced densities of parvalbumin- and somatostatin-expressing interneurons in experimental cortical dysplasia and heterotopia in early postnatal development**
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- LXII. **Protective effects of melatonin against spinal cord injury induced oxidative damage in rat kidney: A morphological and biochemical study**
AKAKIN D., Kiran D., ÖZKAN N., ERŞAHİN M., ÖZDEMİR KUMRAL Z. N., YEGEN B., ŞENER G.
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- LXIII. **Montelukast inhibits caspase-3 activity and ameliorates oxidative damage in the spinal cord and urinary bladder of rats with spinal cord injury**
ERŞAHİN M., ÇEVİK Ö., AKAKIN D., ŞENER A., ÖZBAY L., YEGEN B., ŞENER G.
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- LXIV. **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., ALARÇİN E., Sahin C., AKAKIN D., Dortunc B.
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- LXV. **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.
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- LXVI. **Melatonin treatment protects against spinal cord injury induced functional and biochemical changes in rat urinary bladder**
Ersahin M., Ozdemir Z. N., ÖZSAVCI D., AKAKIN D., YEGEN B., Reiter R. J., ŞENER G.
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- LXVII. **Topical glucocorticoid reduces the topical decongestant-induced histologic changes in an animal model nasal mucosa**
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LARYNGOSCOPE, vol.122, no.4, pp.741-746, 2012 (SCI-Expanded)
- LXVIII. **Topical Decongestants and Glucocorticosteroids Interaction in nasal mucosa of animal model**
Akpınar Esen M., YİĞİT Ö., AKAKIN D., KİRAZLI Ö., ÖZKAN N., Azizli E., ŞEHİRLİ Ü. S.
Laryngoscope, pp.741-746, 2012 (SCI-Expanded)
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Metrics

Publication: 185

Citation (WoS): 925

Citation (Scopus): 1199

H-Index (WoS): 17

H-Index (Scopus): 19

Invited Talks

Immunogold Workshop, Workshop, 15th ICHC, Turkey, May 2017

Non Academic Experience

Marmara Üniversitesi Tıp Fakültesi

University of Florida

Academy of Sciences of Czech Republic