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Education Information

Doctorate, İstanbul University, Health Sciences Institute, Fizyoloji Anabilim Dalı, Turkey 1985 - 1989

Postgraduate, İstanbul University, Health Sciences Institute, Fizyoloji Anabilim Dalı, Turkey 1982 - 1985

Undergraduate, İstanbul University, Faculty Of Science, Turkey 1978 - 1982

Dissertations

Doctorate, Amonyak komasında kan beyin bariyeri ve dekzametazonun bariyer üzerine etkisi, İstanbul University, Temel Tıp Bilimleri, Fizyoloji Anabilim Dalı, 1989

Postgraduate, Akut hipertansiyonda dekzametazonun kan beyin bariyerini koruyucu etkisi, İstanbul University, Temel Tıp Bilimleri, Fizyoloji Anabilim Dalı, 1985

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences

Academic Titles / Tasks

Professor, İstanbul University, İstanbul Medical Faculty, Temel Bilimler, 2000 - Continues

Academic and Administrative Experience

Advising Theses

ÜZÜM G., SIÇANLARDA ADOLESAN DÖNEMDE KALORİ KISITLAMASININ HİPOKAMPUSTA NÖROGENEZ, ÖĞRENME VE HAFIZA ÜZERİNE ETKİSİNİN ARAŞTIRILMASI, Postgraduate, Z.Kaptan(Student), 2014

ÜZÜM G., invitro kan beyin bariyeri modelinde etanol ile oluşturulan kan beyin bariyeri hasarı üzerine östrojenin etkileri, Postgraduate, S.Karadenizli(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effects of erythropoietin pretreatment on single dose pentylenetetrazole-induced seizures in rats**
Kapucu A., Uzum G., Kaptan Z., Akgun-Dar K.
BIOTECHNIC & HISTOCHEMISTRY, vol.95, no.6, pp.418-427, 2020 (SCI-Expanded)
- II. **Effect of enriched environment and predictable chronic stress on spatial memory in adolescent rats: Predominant expression of BDNF, nNOS, and interestingly malondialdehyde in the right hippocampus**
Kaptan Z., Dar K., Kapucu A., Bulut H., Üzüm G.
BRAIN RESEARCH, vol.1721, 2019 (SCI-Expanded)
- III. **Similarity of inflammatory response in epileptic seizures and sepsis: Does the sensitivity to sepsis in epileptic patients increase?**
Üzüm G., Akgün-Dar k., kandil A., Bahçekapılı N., Albeniz I.
Critical Care, vol.18, no.2, pp.1-53, 2018 (SCI-Expanded)
- IV. **Investigation of the Effects of Seizures Induced with Pentylenetetrazole on Biomolecular Structure in Peripheral Tissues with Fourier Transform Infrared Spectroscopy Method and Comparison with Oxidative Stress Markers**
Uzum G., Kuruca S., Kaptan Z., Kapucu A., Dar K., Yilmaz A., Yalcinkaya O., Kartal S., Kaleler I.
ACTA PHYSIOLOGICA, vol.221, pp.73-74, 2017 (SCI-Expanded)
- V. **The effects of 17 beta-estradiol on blood brain barrier integrity in the absence of the estrogen receptor alpha; an in-vitro model**
Kuruca S. E., Karadenizli S., Akgun-Dar K., Kapucu A., Kaptan Z., Uzum G.
ACTA HISTOCHEMICA, vol.119, pp.638-647, 2017 (SCI-Expanded)
- VI. **Chronic (3-Weeks) Treatment of Estrogen (17 beta-Estradiol) Enhances Working and Reference Memory in Ovariectomized Rats: Role of Acetylcholine**
Uzum G., Bahçekapılı N., BALTAÇI A. K., MOĞULKOÇ R., Ziylan Y. Z.
NEUROCHEMICAL RESEARCH, vol.41, no.6, pp.1468-1474, 2016 (SCI-Expanded)
- VII. **The Role of Adult Hippocampal Neurogenesis in Learning and Memory Function**
Kaptan Z., ÜZÜM G.
e-Journal of Neurological Sciences - Turkish, vol.22, pp.149-155, 2016 (SCI-Expanded)
- VIII. **Effects of calorie restriction in adolescence on brain and serum BDNF levels and serum cholesterol levels in adulthood**
Kaptan Z., Uzum G.
ACTA PHYSIOLOGICA, vol.215, pp.103, 2015 (SCI-Expanded)
- IX. **The proportion of neuron specific neuronal protein (NeuN) positive neurons in hippocampal CA regions of adult female rats fed with low-calorie diet during adolescence; levels of NOS isoforms in hippocampus**
Kaptan Z., Akgun-Dar K., Kapucu A., Uzum G.
ACTA PHYSIOLOGICA, vol.215, pp.102, 2015 (SCI-Expanded)
- X. **The Effects of Atorvastatin on Neuropathologic Changes in Diabetic Rats Induced by STZ**
Dar K., Ferak N., Kapucu A., Uzum G.
ACTA PHYSIOLOGICA, vol.215, pp.47, 2015 (SCI-Expanded)
- XI. **Effects of Low Calorie Diet Started In Adolescence and Continued Through Adulthood on Learning-Memory; Serum Levels of Oxidant and Antioxidant Markers**
Kaptan Z., Batu S., Uzum G.
ACTA PHYSIOLOGICA, vol.215, pp.67, 2015 (SCI-Expanded)
- XII. **Long term consequences on spatial learning-memory of low-calorie diet during adolescence in female rats; hippocampal and prefrontal cortex BDNF level, expression of NeuN and cell proliferation in dentate gyrus.**
Kaptan Z., Akgun-Dar K., Kapucu A., Dedeakayogullari H., Batu S., Uzum G.
Brain research, vol.1618, pp.194-204, 2015 (SCI-Expanded)

- XIII. **Pre- and post-estrogen administration in global cerebral ischemia reduces blood-brain barrier breakdown in ovariectomized rats**
Uzum G., Bahcekapili N., Baltaci A. K., Mogulkoc R., Ziyylan Y. Z.
ACTA PHYSIOLOGICA HUNGARICA, vol.102, no.1, pp.60-66, 2015 (SCI-Expanded)
- XIV. **Simvastatin reduces VEGF and NO levels in acute stages of experimental traumatic brain injury**
Yuksel H., Yavuz O., IS M., Comunoglu N., Uzum G., AKYUZ F., YILDIRIM H. A.
NEUROLOGICAL SCIENCES, vol.34, no.11, pp.1941-1946, 2013 (SCI-Expanded)
- XV. **Evaluation of antiepileptogenic effect of atorvastatin on development of pentylenetetrazole induced kindling in rats: The responsibility of inducible nitric oxide synthase and metalloproteinase 2**
Siçanlarda pentilentetrazol ile uyarılan kindling gelişimi üzerine atorvastatinin antiepileptogenik etkisinin değerlendirilmesi; İndüklenebilir nitrik oksit ve metalloproteinaz 2'nin sorumluluğu
Akgün Dar K., Kapucu A., Acar S., Üzüm G.
Turkiye Klinikleri Journal of Medical Sciences, vol.33, no.4, pp.995-1006, 2013 (SCI-Expanded)
- XVI. **The effects of atorvastatin on memory deficit and seizure susceptibility in pentylenetetrazole-kindled rats**
Uzum G., Akgun-Dar K., Aksu U.
EPILEPSY & BEHAVIOR, vol.19, no.3, pp.284-289, 2010 (SCI-Expanded)
- XVII. **ATORVASTATIN IMPROVES DEVELOPMENT OF PENTYLENTETRAZOL-INDUCED KINDLING, LEARNING AND MEMORY DISORDERS IN RATS**
Uzum G., Akgun-Dar K., Aksu U.
JOURNAL OF PHYSIOLOGICAL SCIENCES, vol.59, pp.368, 2009 (SCI-Expanded)
- XVIII. **Sex differences in modulating blood brain barrier permeability by NO in pentylenetetrazol-induced epileptic seizures**
Diler A. S., Uzum G., Dar K. A., Aksu U., Atukeren P., Ziyylan Y. Z.
LIFE SCIENCES, vol.80, no.14, pp.1274-1281, 2007 (SCI-Expanded)
- XIX. **The relationship between erythropoietin pretreatment with blood-brain barrier and lipid peroxidation after ischemia/reperfusion in rats**
Bahcekapili N., Uzum G., Gokkusu C., Kuru A., Ziyylan Y. Z.
LIFE SCIENCES, vol.80, no.14, pp.1245-1251, 2007 (SCI-Expanded)
- XX. **Erythropoietin prevents the increase in blood-brain barrier permeability during pentylenetetrazol induced seizures**
Uzum G., Diler A. S., Bahçekapılı N., Ziyylan Y. Z.
LIFE SCIENCES, vol.78, no.22, pp.2571-2576, 2006 (SCI-Expanded)
- XXI. **Nitric oxide involvement in seizures elicited by pentylenetetrazol and sex dependence**
Uzum G., Akgun-Dar K., BAHCEKAPILI N., Diler A. S., Ziyylan Y. Z.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.115, no.11, pp.1503-1514, 2005 (SCI-Expanded)
- XXII. **Passage of spermidine across the blood-brain barrier in short recirculation periods following global cerebral ischemia: effects of mild hyperthermia**
Diler A. S., Ziyylan Y. Z., Uzum G., LEFAUCONNIER J., SEYLAZ J., PINARD E.
NEUROSCIENCE RESEARCH, vol.43, no.4, pp.335-342, 2002 (SCI-Expanded)
- XXIII. **Effects of spermidine treatment on neurobehavioral development in intrauterine growth retarded (IUGR) rats**
Uzum G., Diler A. S., Ziyylan Z.
INTERNATIONAL JOURNAL OF DEVELOPMENTAL NEUROSCIENCE, vol.17, no.7, pp.727-732, 1999 (SCI-Expanded)
- XXIV. **Chronic nicotine pretreatment protects the blood-brain barrier against nicotine-induced seizures in the rat**
Uzum G., Diler A. S., Ziyylan Y. Z.
PHARMACOLOGICAL RESEARCH, vol.40, no.3, pp.263-269, 1999 (SCI-Expanded)
- XXV. **THE CEREBROVASCULAR PERMEABILITY AND EPILEPSY - THE ROLE OF BLOOD-PRESSURE ATES N., UZUM G., DILER A. S., ZIYLAN Y. Z.**

Articles Published in Other Journals

- I. **EFFECTS OF ERYTHROPOIETIN PRETREATMENT ON LIVER, KIDNEY, HEART TISSUE IN PENTYLENENETETRAZOL-INDUCED SEIZURES ; EVALUATION IN TERMS OF OXIDATIVE MARKERS, PROLIDASE AND SIALIC ACID**
Kapucu A., Kaptan Z., Akgun Dar K., Kaleler I., Uzum G.
JOURNAL OF ISTANBUL FACULTY OF MEDICINE-ISTANBUL TIP FAKULTESI DERGİSİ, vol.84, no.4, pp.464-471, 2021 (ESCI)
- II. **The Role of Adult Hippocampal Neurogenesis in Learning and Memory Function**
Kaptan Z., Uzum G.
TURKISH JOURNAL OF NEUROLOGY, vol.22, no.4, pp.149-155, 2016 (ESCI)
- III. **N-methyl-D-aspartate Receptors Are Involved in Caffeine-Induced Facilitation on Memory Retention of Passive Avoidance Learning in Rats**
DİLER A. S., ZİYLAN Y. Z., ÜZÜM G.
Journal of Caffeine Research, vol.3(4), pp.169-174, 2013 (Peer-Reviewed Journal)
- IV. **Alterations in Blood-Brain Barrier After Traumatic Brain Injury in Streptozotocin-Induced Diabetic Rats**
Türeci E., İş M., ÜZÜM G., Akyüz F., Ulu M. O., Döşoğlu M., Uzan M.
J Nervous Sys Surgery, vol.2, pp.79-86, 2009 (Peer-Reviewed Journal)
- V. **Nikotinin merkezi sinir sistemi üzerindeki bazı etkileri**
ÜZÜM G., DİLER A. S.
İSTANBUL TIP FAKÜLTESİ DERGİSİ, vol.62, no.1, pp.105-110, 1999 (ESCI)
- VI. **Kronik nikotin tedavisinin pentilenetetrazol ile oluşturulan nöbetlerde kan-beyin bariyeri permeabilitesi üzerine etkisi**
ÜZÜM G., DİLER A. S., ZİYLAN Y. Z.
İSTANBUL TIP FAKÜLTESİ DERGİSİ, vol.62, no.3, pp.257-263, 1999 (ESCI)
- VII. **Epileptik nöbet oluşumunda hücresel mekanizmalar**
ÜZÜM G.
İSTANBUL TIP FAKÜLTESİ DERGİSİ, vol.61, no.4, pp.512-516, 1998 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Asymmetric Change of Some Memory-Related Mediators in Hippocampus in Spatial Memory Improvement Induced by Enriched Environment in Adolescent Rats**
Kaptan Z., Akgün Dar K., Kapucu A., Bulut H., Üzüm G.
Turkish Society of Physiological Sciences 45th National Physiology Congress, Aydın, Turkey, 31 October - 03 November 2019, pp.44
- II. **Adolesan dönemde uygulanan düşük kalorili diyetin sağ ve sol hipokampusta nörogeneze etkisi**
KAPTAN Z., DAR K. A., KAPUCU A., ÜZÜM G.
16. ulusal sinir bilim kongresi, İstanbul, Turkey, 20 - 23 May 2018, pp.149
- III. **Effect of erythropoietin pretreatment on oxidative stress caused by pentylenetetrazole-induced seizures in kidney, liver and heart**
ÜZÜM G., Akgün-Dar K., Kapucu A., Kuruca D. S., Kaleler İ.
Champalimaud research symposium 2017, Lisbon, Portugal, 9 - 11 October 2017, pp.100
- IV. **Pentilenetetrazol ile İndüklenen Nöbetlerin Periferik Dokularda Biyomoleküller Yapı Üzerine Etkilerinin Fourier Transform Infrared Spektroskopi Yöntemi ile Araştırılması ve Oksidatif Stres Markırları ile Karşılaştırılması.**

- ÜZÜM G., Erdem Kuruca S., Kaptan Z., KAPUCU A., AKGÜN DAR K., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., KARTAL S., Kaleler İ., KURUCA D. S.
43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, pp.82
- V. **The effects of mild calorie restriction limited to adolescence on nitric oxide synthase isoforms at hippocampal neurogenic niche in adulthood.**
- KAPTAN Z., AKGÜN DAR K., KAPUCU A., ÜZÜM G.
- Physiology, Dublin, Ireland, 29 - 31 July 2017, pp.379
- VI. **Effects of Low Calorie Diet Started From Adolescence on Learning and Memory; Evaluation in Terms of Inflammatory and Oxidative Markers**
- Kaptan Z., Dedeakayogulları H., Hiçyılmaz A. C., ÜZÜM G.
- 19.th APCCCM2016, Bangkok, Thailand, 12 - 15 October 2016, pp.145
- VII. **The effects of mild calorie restriction limited to adolescence on nitric oxide synthase isoforms at hippocampal neurogenic niche in adulthood.**
- KAPTAN Z., AKGÜN DAR K., KAPUCU A., ÜZÜM G.
- Physiology, Dublin, Ireland, 29 - 31 July 2016, pp.379
- VIII. **Similarity of inflammatory response in epileptic seizures and sepsis: does the sensitivity to sepsis in epileptic patients increase?**
- ÜZÜM G., Akgün-Dar K., kandil A., Bahçekapılı N., Albeniz I.
- Sepsis 2014, Paris, France, 3 - 05 December 2015, pp.56
- IX. **STZ ile Uyarılmış Diyabetik Sıçanlarda Öğrenme, Hafıza ve Nöropatolojik Değişiklikler Üzerine Atorvastatinin Etkileri.**
- AKGÜN DAR K., Ferak N., KAPUCU A., ÜZÜM G.
41. Fizyoloji Kongresi, Çanakkale, Turkey, 9 - 12 September 2015, pp.106-107
- X. **Adolesan Dönemde Başlayan ve Erişkin Dönemde de Devam Eden Düşük Kalorili Diyetin Öğrenme Hafıza Üzerine Etkileri; Serumda Oksidan ve Antioksidan Markırların Seviyeleri**
- Kaptan Z., BATU Ş., ÜZÜM G.
41. Ulusal Fizyoloji Kongresi, Çanakkale, Turkey, 9 - 13 September 2015, pp.67
- XI. **Effects of calorie restriction in adolescence on brain and serum BDNF levels and serum cholesterol levels in adulthood**
- Kaptan Z., ÜZÜM G.
- The Joint Meeting of the Federation of European Physiological Societies and the Baltic Physiological Societies in Kaunas, FEPS 2015, Kaunas, Lithuania, 26 - 29 August 2015, pp.103
- XII. **The proportion of neuron specific neuronal protein (NeuN) positive neurons in hippocampal CA regions of adult female rats fed with low-calorie diet during adolescence; levels of NOS isoforms in hippocampus**
- Kaptan Z., AKGÜN DAR K., KAPUCU A., ÜZÜM G.
- The Joint Meeting of the Federation of European Physiological Societies and the Baltic Physiological Societies in Kaunas, FEPS 2015, Kaunas, Lithuania, 26 - 29 August 2015, pp.6-7
- XIII. **Similarity of imflammatory response in epileptic seizures and sepsis: does the sensitivity to sepsis in epileptic patients increase?**
- Üzüm G., Akgün Dar K., Kandil A., Bahçekapılı N., Albeniz I.
- Sepsis 2014, Paris, France, 3 - 05 December 2014, pp.37-39
- XIV. **Adölesan dönemde başlayan uzun süreli kalori kısıtlaması uygulamasının spasyal, nonspasyal öğrenme ve hafıza performansları üzerine etkisi**
- Kaptan Z., ÜZÜM G.
40. Ulusal Fizyoloji Kongresi, Kayseri, Turkey, 2 - 06 September 2014, pp.237
- XV. **Overektomili sıçanlarda kısa ve uzun süreli, östrojen uygulamasının öğrenme ve bellek üzerine etkileri**
- ZİYLAN Y. Z., ÜZÜM G., Bahçekapılı N., Baltacı K., Moğulkoç R.
40. Ulusal Fizyoloji Kongresi, Kayseri, Turkey, 2 - 06 September 2014, pp.150
- XVI. **Adölesan Dönemde düşük kalori diyet uygulamasının serum lipid profili ve hipokampusta oksidatif**

- stres üzerine etkisi.**
Kaptan Z., Üzüm G., AKGÜN DAR K., Batu \$.
40. Fizyoloji Kongresi, Kayseri, Turkey, 2 - 06 September 2014, pp.116
- XVII. **Caffeine improves MK-801-induced learning and memory deficits**
ÜZÜM G., DİLER A. S., ZİYLAN Y. Z.
Joint meeting of the Federation of European Physiological Societies (FEPS) and the Hungarian Physiological Society, Budapeşte, Hungary, 27 - 30 August 2014, pp.147
- XVIII. **Evaluation of spatial learning and memory, level of serum cholesterol and tryglyceride in caloric restriction applied adolescent female rats**
ÜZÜM G., Kaptan Z.
Joint meeting of the Federation of European Physiological Societies (FEPS) and the Hungarian Physiological Society, Budapeşte, Hungary, 27 - 30 August 2014, pp.128
- XIX. **Streptozotocin ile indüklenen diyabetik sıçanlarda beyin hasarının biomarkırları üzerine atorvastatinin etkisi.**
Ferak N., AKGÜN DAR K., Kapucu A., Albeniz I., Kaptan Z., Üzüm G.
39. Fizyoloji Kongresi, Ankara, Turkey, 10 - 14 September 2013, pp.175
- XX. **The effect of erythropoietin pretreatment on S100B and NSE serum levels and brain inflammation in pentylenetetrazole induced generalized seizures; Evaluation of antiseizure effect of erythropoietin**
Bahçekapılı N., ALBENİZ I., ÜZÜM G.
IUPS Congress 2013, Birmingham, United Kingdom, 21 - 26 July 2013, pp.742
- XXI. **Erythropoietin pretreatment suppresses pentylenetetrazole induced generalized seizures by inhibiting iNOS and increasing eNOS activity in hippocampus.**
Uzum G., Bahçekapılı N., Kapucu A., Kandil A., Akgün Dar K.
IUPS Congress, Birmingham, United Kingdom, 21 - 26 July 2013, pp.741-742
- XXII. **Sıçanlarda pentilentetrazol ile oluşturulan epilepsi modelinde eritropoetinin antikonvulzif etkisinin beyin dokusu proinflamatuar moleküller ve siyalik asit düzeyleri açısından araştırılması.**
ÜZÜM G., Bahçekapılı N., AKGÜN DAR K., KAPUCU A., KANDİL A., ALBENİZ I., BATU \$., USLU F. E.
38. Fizyoloji Kongresi, Trabzon, Turkey, 25 - 29 September 2012, pp.175
- XXIII. **Effects of luteolin on liver, kidney and brain in PTZ-induced seizures: involvement of metalloproteinases and NOS activities**
Birman H., Akgün Dar K., Kapucu A., Acar S., Üzüm G.
22nd IUBMB Congress/37th FEBS Congress, Sevilla, Spain, 4 - 09 September 2012, vol.279, pp.575
- XXIV. **17-betaestradiol increases ethanol induced disruption of blood-brain barrier; responsibility of inducible nitric oxide synthase**
Karadenizli S., Uzum G., Kuruca S. E., Akgun-Dar K., Cetin M. B., Kapucu A.
22nd IUBMB Congress/37th FEBS Congress, Sevilla, Spain, 4 - 09 September 2012, vol.279, pp.381
- XXV. **The Effect of Recombinant Human Erythropoietin (rHuEPO) Pretreatment on the Liver and Kidney in PTZ-induced Epileptic Seizures**
AKGÜN DAR K., KANDİL A., KAPUCU A., Bahçekapılı N., ÜZÜM G.
14th International SHR Symposium, 6th International Congrees of Pathophysiology, Kyoto, Japan, 26 - 29 August 2012
- XXVI. **Influence of diabet on pro and anti inflammatory cytokins in head trauma: relation to blood-brain barrier dysfunction.**
ÜZÜM G., Gökkuşu C., İş M.
9.th international congress on coronary artery disease, Venice, Italy, 23 - 26 October 2011, pp.1
- XXVII. **The effect of estrogen on ethanol induced blood brain barrier disruption in an in vitro model**
Karadenizli S., ÜZÜM G., KURUCA D. S., AKGÜN DAR K., Çetin B., KAPUCU A.
Turkish Society of Physiological Sciences and FEBS, İstanbul, Turkey, 3 - 07 September 2011
- XXVIII. **The effects of atorvastatin on brain matrix metalloproteinase, memory deficit and seizure development in pentilentetrazol kindling in rats.**
ÜZÜM G., AKGÜN DAR K., KAPUCU A., Acar S.

- 14th International SHR Symposium, 6th International Congresses of Pathophysiology, Montreal, Canada, 22 - 25 September 2010, pp.93
- XXIX. , Pentilentetrazol ve luteolinin karaciğer ve böbrek hasarı üzerine olan etkilerinin araştırılması.
BİRMAN H., ÜZÜM G., AKGÜN DAR K., KAPUCU A., Acar S., BALCI H.
Türk Fizyolojik Bilimler Derneği 35. Ulusal Kongresi (Uluslararası Katılımlı), Ankara, Turkey, 30 September - 03 October 2009, pp.132
- XXX. Sıçanlarda pentilentetrazol ile oluşturulan kindling epilepside atorvastatinin beyin üzerine olan etkileri.
ÜZÜM G., AKGÜN DAR K., KAPUCU A., Acar S., BALCI H.
Türk Fizyolojik Bilimler Derneği 35. Ulusal Kongresi (Uluslararası Katılımlı), Ankara, Turkey, 30 September - 03 October 2009, pp.132
- XXXI. Atorvastatin improves development of pentylenetetrazol-induced kindling, learning and memory disorders in rats
ÜZÜM G., AKGÜN DAR K., AKSU U.
IUPS2009, Kyoto, Japan, 30 July - 05 August 2009, vol.1, pp.368
- XXXII. Pentilentetrazol indüklü kindling ve öğrenme-hafıza bozukluğu üzerine atorvastatinin iyileştirici etkileri.
ÜZÜM G., AKGÜN DAR K., AKSU U.
Türk Fizyolojik Bilimler Derneği 34. Ulusal Kongresi (Uluslararası Katılımlı), Erzurum, Turkey, 06 October 2008 - 10 October 2010, pp.174
- XXXIII. Pentilentetrazol ile indüklenen epileptik nöbetlerde kan beyin bariyeri geçirgenlik değişimlerinin NO ile modülasyonu; cinsiyete bağlı değişiklikler
ÜZÜM G., ZİYLAN Y. Z., AKGÜN DAR K., AKSU U., Ercan Ş.
XXXI. Ulusal Fizyoloji Kongresi (Uluslararası Katılımlı), Gaziantep, Turkey, 27 - 30 September 2005, pp.113
- XXXIV. Sex dependent involvement of nitric oxide in seizures elicited by pentylenetetrazol.
AKGÜN DAR K., ÜZÜM G., Bahçekapılı N., ATUKEREN P., GÜMÜŞTAŞ M. K., Uyaner İ.
II. Ulusal Nörobilim Kongresi, Bursa, Turkey, 16 - 20 April 2003, pp.14
- XXXV. Epileptik nöbetlerde beyinde NOS aktivitesi; cinsiyete bağlı değişiklikler
AKGÜN DAR K., ÜZÜM G., GÜMÜŞTAŞ M. K., Uyaner İ.
28. Ulusal Fizyoloji Kongresi, İzmir, Turkey, 24 - 27 September 2002, pp.30

Other Publications

- I. Similarity of inflammatory response in epileptic seizures and sepsis: does the sensitivity to sepsis in epileptic patients increase?
ÜZÜM G., Akgün-Dar K., kandil A., bahçekapılı N., Albeniz I.
Other, 2014
- II. Similarity of inflammatory response in epileptic seizures and sepsis: does the sensitivity to sepsis in epileptic patients increase?
ÜZÜM G., Akgün-Dar K., Bahçekapılı N., Albeniz I.
Other, 2014

Supported Projects

- KAPUCU A., AKGÜN DAR K., KAPTAN Z., ÜZÜM G., Project Supported by Higher Education Institutions, Pentilentetrazol ile oluşturulan epileptik nöbetlerde öğrenme ve hafıza üzerine eritropoetinin etkisi biyokimyasal ve histolojik açıdan değerlendirme, 2016 - 2017
- ÜZÜM G., Project Supported by Higher Education Institutions, The proportion of neuron specific neuronal protein (NeuN) positive neurons in hippocampal CA regions of adult female rats fed with low-calorie diet during adolescence;

levels of NOS isoforms in hippocampus, 2015 - 2015

ÜZÜM G., Project Supported by Higher Education Institutions, The similarity of inflammatory response in epileptic seizures and sepsis; Does the sensitivity to sepsis in epileptic patients increase?, 2014 - 2014

ÜZÜM G., Project Supported by Higher Education Institutions, ADÖLESAN DÖNEMDE DÜŞÜK KALORİ DİYET UYGULAMASININ SERUM LİPİD PROFİLİ VE HİPOKAMPUSTA OKSİDATİF STRES ÜZERİNE ETKİSİ, 2014 - 2014

ÜZÜM G., Project Supported by Higher Education Institutions, Sıçnlarda Adolesan Dönemde Kalorİ Kısıtlamasının Hipokampusta Nörogenez, Öğrenme ve Hafıza Üzerine Etkisinin Araştırılması, 2013 - 2014

ÜZÜM G., Project Supported by Higher Education Institutions, STREPTOZOZOTOCİN İLE İNDÜKLENEN DİYABETİK SİÇANLARDA BEYİN HASARININ BIOMARKIRLARI ÜZERİNE ATORVASTATİNİN ETKİSİ, 2013 - 2013

ÜZÜM G., Project Supported by Higher Education Institutions, The effect of erythropoietin pretreatment on S100B and NSE serum level sand brain inflammation in pentylentetrazole induced generalized seizures; Evaluation of antiseizure effect of erythropoietin, 2013 - 2013

ÜZÜM G., Project Supported by Higher Education Institutions, The effects of atorvastatin on memory deficit and seizure susceptibility in pentylentetrazole-kindled rats. *Epilepsy and Behavior*, 2010, 19(3), 284-9., 2012 - 2013

ÜZÜM G., Project Supported by Higher Education Institutions, Sıçnlarda pentilentetrazol ile oluşturulan epilepsi modelinde eritropoetinin antikonvulzif etkisinin beyin dokusu proinflamatuar moleküller ve siyalik asit düzeyleri açısından araştırılması, 2012 - 2012

ÜZÜM G., Project Supported by Higher Education Institutions, 17-betaestradiol increases ethanol induced disruption of blood brain barrier; responsibility of inducible nitric oxide synthase, 2012 - 2012

ÜZÜM G., Project Supported by Higher Education Institutions, Influence of diabet on pro and anti inflammatory cytokins in head trauma: relation to blood-brain barrier dysfunction., 2011 - 2011

ÜZÜM G., Project Supported by Higher Education Institutions, epileptik sıçnlarda öğrenme ve hafıza üzerine statin etkisinin nitrik oksit ile ilişkisi, 2010 - 2011

ÜZÜM G., Project Supported by Higher Education Institutions, The effects of Atorvastatin on brain matrix metalloproteinase, memory deficit and seizure development in pentilentetrazol kindling in rats, 2010 - 2010

ÜZÜM G., Project Supported by Higher Education Institutions, invitro kan-beyin bariyeri modelinde transendotelial direnç ölçümü, 2007 - 2010

ÜZÜM G., Project Supported by Higher Education Institutions, Sıçnlarda pentilentetrazol ile oluşturulan kindling modelinde epileptik nöbetler ve hafıza bozukluğu üzrine atorvastatinin etkisi, 2009 - 2009

Memberships / Tasks in Scientific Organizations

Uluslararası FİZYOJİK BİLİMLER DERNEĞİ, Member, 2016 - Continues
Türk Fizyolojik Bilimler Derneği, Member, 1984 - Continues

Scientific Refereeing

Title: THE COGNITIVE FUNCTION OF WISTAR RATS SUBJECTED TO CAFETERIA DIET, SCI Journal, December 2015

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