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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.
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- 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**
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- 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.
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- VI. **Chronic (3-Weeks) Treatment of Estrogen (17 beta-Estradiol) Enhances Working and Reference Memory in Ovariectomized Rats: Role of Acetylcholine**
Uzum G., Bahcekapili N., BALTACI 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.
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- X. **The Effects of Atorvastatin on Neuropathologic Changes in Diabetic Rats Induced by STZ**
Dar K., Ferak N., Kapucu A., Uzum G.
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- 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.
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- 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.**
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- 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.
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- 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
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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**
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- XVII. **ATORVASTATIN IMPROVES DEVELOPMENT OF PENTYLENTETRAZOL-INDUCED KINDLING, LEARNING AND MEMORY DISORDERS IN RATS**
Uzum G., Akgun-Dar K., Aksu U.
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- 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.
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- 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.
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- 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.
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- II. **The Role of Adult Hippocampal Neurogenesis in Learning and Memory Function**
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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**
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- VII. **Epileptik nöbet oluşumunda hücresel mekanizmalar**
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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 \$.
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- XVII. **Caffeine improves MK-801-induced learning and memory deficits**
ÜZÜM G., DİLER A. S., ZİYLAN Y. Z.
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- 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.
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- XXII. **Sıçanlarda pentilentetrazol ile oluşturulan epilepsi modelinde eritropoetinin antikonvulzif etkisinin beyin dokusu proinflamatuar moleküller ve siyalik asit düzeyleri açısından araştırılması.**
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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**
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- XXIV. **17-betaestradiol increases ethanol induced disruption of blood-brain barrier; responsibility of inducible nitric oxide synthase**
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- XXV. **The Effect of Recombinant Human Erythropoietin (rHuEPO) Pretreatment on the Liver and Kidney in PTZ-induced Epileptic Seizures**
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- XXVIII. **The effects of atorvastatin on brain matrix metalloproteinase, memory deficit and seizure development in pentilentetrazol kindling in rats.**
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Supported Projects

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