

Prof. AYŞEN ERDEM

Personal Information

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Education Information

Expertise In Medicine, Hacettepe University, Tıp , Fizyoloji, Turkey 1994 - 1997

Undergraduate, Hacettepe University, Tıp , Turkey 1985 - 1992

Foreign Languages

English, C1 Advanced

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Human Physiology

Academic Titles / Tasks

Professor, Hacettepe University, Tıp Fakültesi (Türkçe), Temel Tıp Bilimleri Bölümü, 2018 - Continues

Associate Professor, Hacettepe University, Temel Tıp Bilimleri Bölümü, 2009 - 2018

Assistant Professor, Hacettepe University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1999 - 2009

Expert, Hacettepe University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1997 - 1999

Research Assistant, Hacettepe University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1994 - 1997

Academic and Administrative Experience

Head of Department, Hacettepe University, Tıp Fakültesi (Türkçe), Temel Tıp Bilimleri Bölümü, 2020 - Continues

Yıl Koordinatörü, Hacettepe University, Tıp Fakültesi (Türkçe), Temel Tıp Bilimleri Bölümü, 2016 - Continues

Hacettepe Üniversitesi, Kariyer Gelişimi Uygulama Ve Araştırma Merkezi, 2014 - Continues

Courses

FZY 732 Kalp Fizyolojisi, Doctorate, 2016 - 2017

Tıp Fakültesi Fizyoloji , Undergraduate, 2016 - 2017

Hemşirelik Fakültesi FZY 109, Undergraduate, 2016 - 2017

Seminer, Doctorate, 2016 - 2017

Advising Theses

- ERDEM A., Dokсорubisinle oluşturulan hepatotoksisitede taurinin koruyucu etkisi, Postgraduate, E.GEDİKLİ(Student), 2016
- ERDEM A., Perinatal kafein uygulamasının yavru sıçanların beyin dokusundaki seks steroid hormonları üzerine etkisi, Doctorate, S.KARAIŞMAİLOĞLU(Student), 2014
- ERDEM A., Hiperkolesteroleminin sıçan mesanesinin kasılma işlevine etkisi, Postgraduate, S.KARAIŞMAİLOĞLU(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Can ARNI Prevent Doxorubicin-Induced Cardiotoxicity?**
Baris V. O. , ERDEM A.
ANATOLIAN JOURNAL OF CARDIOLOGY, vol.26, no.4, pp.342-343, 2022 (Journal Indexed in SCI)
- II. **Acute Anxiolytic Effect of Salvia Heldreichiana Essential Oil in Rats**
Dastan A. O. , ARIHAN O., DAĞLI GÜL A. Ş. , Yılmaz G., ERDEM A.
ACTA PHYSIOLOGICA, vol.234, pp.81, 2022 (Journal Indexed in SCI)
- III. **Empagliflozin Significantly Prevents the Doxorubicin-induced Acute Cardiotoxicity via Non-antioxidant Pathways**
Baris V. O. , DİNÇSOY A. B. , GEDİKLİ E., ZIRH S., Muftuoglu S., ERDEM A.
CARDIOVASCULAR TOXICOLOGY, vol.21, pp.747-758, 2021 (Journal Indexed in SCI)
- IV. **Empagliflozin significantly attenuates QTc prolongation in rats due to sotalol**
Baris V. O. , Dincsoy B., GEDİKLİ E., ERDEM A.
EUROPEAN HEART JOURNAL, vol.41, pp.3348, 2020 (Journal Indexed in SCI)
- V. **Protective effect of taurine against doxorubicin-induced cardiotoxicity in rats: echocardiographical and histological findings**
Baris V. O. , Gedikli E., Yersal N., Muftuoglu S., Erdem A.
AMINO ACIDS, vol.51, pp.1649-1655, 2019 (Journal Indexed in SCI)
- VI. **Clinical features and subjective/physiological responses to emotional stimuli in the presence of emotion dysregulation in attention-deficit hyperactivity disorder**
Taskiran C., KARAIŞMAİLOĞLU S., Esen H. T. C. , TÜZÜN Z., ERDEM A., BALKANCI Z. D. , Dolgun A. B. , Kultur S. E. C.
JOURNAL OF CLINICAL AND EXPERIMENTAL NEUROPSYCHOLOGY, vol.40, no.4, pp.389-404, 2018 (Journal Indexed in SCI)
- VII. **The perinatal effects of maternal caffeine intake on fetal and neonatal brain levels of testosterone, estradiol, and dihydrotestosterone in rats**
KARAIŞMAİLOĞLU S., TUNCER M., BAYRAK Ş., Erdogan G., ERGÜN E., ERDEM A.
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.390, no.8, pp.827-838, 2017 (Journal Indexed in SCI)
- VIII. **Potential excitatory role of nitric oxide on 2-deoxy-D-glucose-induced gastric motility in rats**
Sevgili A. M. , Balkanci D. Z. , ERDEM A.
CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, vol.44, no.6, pp.693-699, 2017 (Journal Indexed in SCI)
- IX. **Protective role of erdosteine pretreatment on oleic acid-induced acute lung injury**
Erdem A., Gedikli E., Yersal N., Karaismailoğlu S., Muftuoglu S., Fadillioğlu E., Tuncer M.
JOURNAL OF SURGICAL RESEARCH, vol.213, pp.234-242, 2017 (Journal Indexed in SCI)
- X. **The Protective Role of Erdosteine Pre-treatment on Oleic Acid-induced Acute Lung Injury**
ERDEM A., GEDİKLİ E., YERSAL N., KARAIŞMAİLOĞLU S., TUNCER M., Muftuoglu S., Fadillioğlu E.
ACTA PHYSIOLOGICA, vol.218, pp.41, 2016 (Journal Indexed in SCI)
- XI. **The Protective Effect of Taurine on Doxorubicin-induced Hepatotoxicity**
GEDİKLİ E., YERSAL N., SİNGER D., Baris V. O. , Muftuoglu S., FADILLIOĞLU E., ERDEM A.
ACTA PHYSIOLOGICA, vol.218, pp.63, 2016 (Journal Indexed in SCI)
- XII. **The Effect of Perinatal Caffeine Administration on the Sex Steroid Hormones in the Brain of**

Offspring Rats

KARAIŞMAİLOĞLU S., TUNCER M., Bayrak S., Erdogan G., ERGÜN E., ERDEM A.

ACTA PHYSIOLOGICA, vol.215, pp.22-23, 2015 (Journal Indexed in SCI)

- XIII. **Does hypercholesterolemia affect the relaxation of the detrusor smooth muscle in rats? In vitro and in vivo studies**
Bayrak S., BALKANCI Z. D. , PEHLİVANOĞLU B., KARABULUT İ., KARAIŞMAİLOĞLU S., ERDEM A.
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.388, no.7, pp.761-771, 2015 (Journal Indexed in SCI)
- XIV. **The effect of hypercholesterolemia on the contractions of detrusor strips in response to neural stimulation in rats**
KARAIŞMAİLOĞLU S., BALKANCI Z. D. , PEHLİVANOĞLU B., BAYRAK S., KARABULUT İ., ERDEM A.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.43, no.4, pp.645-651, 2013 (Journal Indexed in SCI)
- XV. **The effect of hypercholesterolemia on carbachol-induced contractions of the detrusor smooth muscle in rats: increased role of L-type Ca²⁺ channels**
BALKANCI Z. D. , PEHLİVANOĞLU B., BAYRAK S., KARABULUT İ., KARAIŞMAİLOĞLU S., ERDEM A.
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.385, no.11, pp.1141-1148, 2012 (Journal Indexed in SCI)
- XVI. **Effect of toluene on erythrocyte membrane stability under in vivo and in vitro conditions with assessment of oxidant/antioxidant status**
KARABULUT İ., BALKANCI Z. D. , PEHLİVANOĞLU B., ERDEM A., Fadillioglu E.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.25, no.8, pp.545-550, 2009 (Journal Indexed in SCI)
- XVII. **The effect of taurine on mesenteric blood flow and organ injury in sepsis**
Erdem A., Sevgili A., Akbiyik F., Atilla P., Cakar N., Balkanci Z., Iskit A. B. , Guc M.
Amino Acids, vol.35, no.2, pp.403-410, 2008 (Journal Indexed in SCI Expanded)
- XVIII. **Effect of age on angiotensin II-mediated downregulation of adrenomedullary catecholamine biosynthetic enzymes**
Erdos B., Erdem S. R. , Erdem A., Broxson C. S. , Tumer N.
EXPERIMENTAL GERONTOLOGY, vol.43, no.8, pp.806-809, 2008 (Journal Indexed in SCI)
- XIX. **Tezosentan Attenuates Organ Injury and Mesenteric Blood Flow Decrease in Endotoxemia and Cecal Ligation and Puncture**
Erdem A., Meltem S., Akbiyik F., Atilla P., Cakar N., Balkanci Z., Iskit A. B. , Guc M.
Journal of Surgical Research, vol.141, no.2, pp.211-219, 2007 (Journal Indexed in SCI Expanded)
- XX. **Vitamin E protects against lipid peroxidation due to cold-SO₂ coexposure in mouse lung**
Ergonul Z., Erdem A., Balkanci Z. D. , Kilinc K.
INHALATION TOXICOLOGY, vol.19, no.2, pp.161-168, 2007 (Journal Indexed in SCI)
- XXI. **Decreased erythrocyte deformability in Behcet's disease**
Uskudar O., Erdem A., Demiroglu H., Dikmenoglu N.
CLINICAL HEMORHEOLOGY AND MICROCIRCULATION, vol.33, no.2, pp.89-94, 2005 (Journal Indexed in SCI)
- XXII. **The age-related discrepancy in the effect of neuropeptide Y on select catecholamine biosynthetic enzymes in the adrenal medulla and hypothalamus in rats**
Erdem S., Broxson C., Erdem A., Spar D., Williams R., Tumer N.
NEUROPHARMACOLOGY, vol.43, no.8, pp.1280-1288, 2002 (Journal Indexed in SCI)
- XXIII. **The protective effect of taurine against gentamicin-induced acute tubular necrosis in rats**
Erdem A., Gundogan N., Usubutun A., Kilinc K., Erdem S., Kara A., Bozkurt A.
NEPHROLOGY DIALYSIS TRANSPLANTATION, vol.15, no.8, pp.1175-1182, 2000 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **The effects of prenatal sex steroid hormones on sexual differentiation of the brain**
KARAIŞMAİLOĞLU S., ERDEM A.

JOURNAL OF THE TURKISH-GERMAN GYNECOLOGICAL ASSOCIATION, vol.14, no.3, pp.163-167, 2013 (Refereed Journals of Other Institutions)

- II. **The effect of midazolam on the oleic acid induced acute lung injury in rats** **Siçanlarda Midazolamin Oleik Asitle Oluşturulan Akut Akciğer Hasarına Etkisi**
AKINCI S. B. , ZEYBEK N. D. , ERDEM A., ERDOĞAN C., Müftüoğlu S., Başgül E., Aypar Ü.
Anestezi Dergisi, vol.13, no.2, pp.132-138, 2005 (Refereed Journals of Other Institutions)
- III. **THE EFFECT OF ANTIOXIDANT VITAMINS E AND C ON LIPOPEROXIDATION OF ERYTHROCYTE MEMBRANES DURING HYPERBARIC OXYGENATION**
Etlik Ö., Tomur A., Dünder K., ERDEM A., GÜNDOĞAN N. Ü.
Journal of Basic and Clinical Physiology and Pharmacology, vol.8, no.4, 1997 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Skeletal Muscle Physiology I (Frog skeletal muscle)**
ERDEM A.
in: Medical Physiology At The Bench, Balkancı Z.D., Pehlivanoglu B., Editor, Hacettepe Üniversitesi, Ankara, pp.47-58, 2018
- II. **Central Nervous System Physiology**
ERDEM A.
in: Medical Physiology At The Bench, Balkancı Z.D., Pehlivanoglu B., Editor, Hacettepe Üniversitesi, Ankara, pp.153-164, 2018
- III. **Bölüm 77: "Tiroidin Metabolik Hormonları"**
ERDEM A.
in: Tıbbi Fizyoloji, Berrak Çağlayan Yeğen, Editor, Güneş, pp.951-963, 2017
- IV. **Neurophysiology of Emotions in Affective Computing and Interaction: Psychological, Cognitive and Neuroscientific Perspectives**
ERDEM A., KARAİSMAİLOĞLU S.
in: Affective Computing and Interaction Psychological Cognitive and Neuroscientific Perspectives, , Editor, Information Science Publishing, pp.1-24, 2010

Refereed Congress / Symposium Publications in Proceedings

- I. **CARIOPROTECTIVE EFFECT OF TAURINE AGAINST DOXORUBICIN CARDIOTOXICITY IN RATS ECHOCARDIOGRAPHIC AND HISTOLOGIC STUDY**
BARIŞ V. Ö. , GEDİKLİ E., YERSAL N., SINGER D., MÜFTÜOĞLU S. F. , FADILLIOĞLU E., ERDEM A.
Congress of the European-Society-of-Cardiology (ESC) EUROPEAN HEART JOURNAL, 27 - 31 August 2016, vol.37, pp.1214
- II. **The Protective Role of Erdosteine Pre treatment on Oleic Acid induced Acute Lung Injury**
ERDEM A., GEDİKLİ E., YERSAL N., YERSALKARAİSMAİLOĞLU S., TUNCER M., MÜFTÜOĞLU S. F. , FADILLIOĞLU E.
The Physiological Society, 5 - 08 September 2016, vol.218, pp.41
- III. **Oleik Asitle Oluşturulan Akut Akciğer Hasarında Erdosteine Ön uygulamasının Koruyucu Rolü**
ERDEM A., GEDİKLİ E., YERSAL N., KARAİSMAİLOĞLU S., TUNCER M., MÜFTÜOĞLU S. F. , FADILLIOĞLU E.
Türk Fizyolojik Bilimler Derneği 42. Ulusal Fizyoloji Kongresi, Turkey, 5 - 08 September 2016
- IV. **The Protective Effect of Taurine on Doxorubicin induced Hepatotoxicity**
GEDİKLİ E., YERSAL N., SINGER D., BARIŞ V. Ö. , MÜFTÜOĞLU S. F. , FADILLIOĞLU E., ERDEM A.
The Physiological Society, 5 - 08 September 2016, vol.218, pp.63
- V. **Cardioprotective effect of taurine against doxorubicin cardiotoxicity in rats: echocardiographic and histologic study**

Baris V., GEDİKLİ E., YERSAL N., Singer D., MÜFTÜOĞLU S. F. , Fadillioğlu E., ERDEM A.

Congress of the European-Society-of-Cardiology (ESC), Rome, Italy, 27 - 31 August 2016, vol.37, pp.1214

- VI. **Perinatal Kafein Uygulamasının Yavru Sıçanların Beyin Dokusundaki Seks Steroit Hormonları Üzerine Etkisi**
KARAIŞMAİLOĞLU S., TUNCER M., BAYRAK S., Erdoğan G., ERGÜN E., ERDEM A.
41. Ulusal Fizyoloji Kongresi, Çanakkale, Turkey, 9 - 13 September 2015, pp.54-55
- VII. **2000 - 2011 yılları arasında fizyoloji adresli bilimsel yayınların Türkiye ve Dünya'xdaki durumu**
KARAIŞMAİLOĞLU S., ERDEM A.
38. Ulusal Fizyoloji Kongresi, Turkey, 25 - 29 September 2012
- VIII. **Does hypercholesterolemia affect the contractions of the smooth muscles of the urinary bladder?**
BALKANCI Z. D. , PEHLİVANOĞLU B., BAYRAK S., ERDEM A., KARABULUT İ., KARAIŞMAİLOĞLU S., Öner G.
8th Congress of FEPS (Federation of European Physiological Societies), 3 - 07 September 2011
- IX. **Hiperkolesterolemik sıçan mesanesinde atropine dirençli kasılma cevabının incelenmesi**
KARAIŞMAİLOĞLU S., BALKANCI Z. D. , PEHLİVANOĞLU B., BAYRAK S., KARABULUT İ., ERDEM A.
35. Ulusal Fizyoloji Kongresi, Turkey, 30 September - 03 October 2009
- X. **Simvastatin tedavisi alan normo ve hiperkolesterolemik sıçanlarda detrusor kasının in vitro kasılma ve gevşeme işlevleri**
PEHLİVANOĞLU B., BALKANCI Z. D. , BAYRAK S., ERDEM A., KARABULUT İ., KARAIŞMAİLOĞLU S.
34. Ulusal Fizyoloji Kongresi, Turkey, 6 - 10 October 2008
- XI. **Effect of nifedipine and Y-27632 on non-M2 receptor mediated in vitro contractions of urinary bladder in normocholesterolemic and hypercholesterolemic rats**
BALKANCI Z. D. , PEHLİVANOĞLU B., BAYRAK S., ERDEM A., KARABULUT İ., KARAIŞMAİLOĞLU S., Öner G.
2nd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels, 25 - 28 August 2008
- XII. **Contractile function of the urinary bladder in hypercholesterolemic rats: in vitro carbachol induced contraction and cystometrography**
BALKANCI Z. D. , Öner G., PEHLİVANOĞLU B., ERDEM A., BAYRAK S., KARABULUT İ., KARAIŞMAİLOĞLU S.
2nd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels, 25 - 28 June 2008
- XIII. **Does hypercholesterolemia alter relaxation response to isoproterenol in rat detrusor strips?**
BALKANCI Z. D. , BAYRAK S., PEHLİVANOĞLU B., ERDEM A., KARABULUT İ., KARAIŞMAİLOĞLU S., Öner G.
2nd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels, 25 - 28 June 2008

Supported Projects

ERDEM A., Project Supported by Higher Education Institutions, Türk Fizyolojik Bilimler Derneği 42. Ulusal Fizyoloji Kongresi, 2016 - 2016

ERDEM A., KARAIŞMAİLOĞLU S., ÇABUŞ N., TUNCER M., GEDİKLİ E., MÜFTÜOĞLU S. F. , FADILLIOĞLU E., Project Supported by Higher Education Institutions, Oleik Asitle Oluşurulan akut Akciğer Hasarında Erdosteinin Koruyucu Rolü, 2015 - 2016

ERDEM A., KARAIŞMAİLOĞLU S., TUNCER M., BAYRAK S., Project Supported by Higher Education Institutions, Perinatal Kafein Uygulamasının Yavru Sıçanların Beyin Dokusundaki Seks Steroit Hormonları Üzerine Etkisi, 2011 - 2015

Citations

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