

## Prof. AYŞEN ERDEM

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: E-7622-2013

Yoksis Researcher ID: 167064

### 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., *Salvia heldreichiana*'nın (Ayaklı şalba ada çayı) tek ve tekrarlayan dozda sıçanlar üzerindeki anksiyolitik etkisi, Expertise In Medicine, A.ONUR(Student), 2023

Erdem A., Doksorubisin uygulanan üçlü negatif meme kanserinde taurin in tümör büyüklüğü ve metastaz üzerine etkisi, Doctorate, E.GEDİKLİ(Student), 2023

Erdem A., Stattic ve/veya Paclitaxel'in üçlü negatif meme kanseri üzerine etkileri, Doctorate, A.BERK(Student), 2023

Erdem A., Empagliflozinin sıçanlarda doksorubisin ile oluşturulan kardiyomiyopati üzerine etkisi, Doctorate, V.ÖZGÜR(Student), 2021

ERDEM A., Doksorubisinle 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. **The Effect of Paclitaxel with a STAT3 Pathway Inhibitor on Metastasis in the Treatment of Triple Negative Breast Cancer**  
DİNÇSOY A. B., GEDİKLİ E., ÖZTÜRK S. C., Nikshiqi E., Baris V. O., KARAKOÇ E., Muftuoglu S., ESENDAĞLI G., ERDEM A.  
ACTA PHYSIOLOGICA, pp.45, 2023 (SCI-Expanded)
- II. **Evaluation of the Effect of Taurine and Doxorubicin Combination on Apoptosis and Metastasis in Triple Negative Breast Cancer**  
GEDİKLİ E., DİNÇSOY A. B., Erdem I. L., KARAKOÇ E., Muftuoglu S., ERDEM A.  
ACTA PHYSIOLOGICA, pp.67-68, 2023 (SCI-Expanded)
- III. **Taurine Protects Doxorubicin-Induced Hepatotoxicity via Its Membrane-Stabilizing Effect in Rats.**  
Gedikli E., Barış V. Ö., Yersal N., Dinçsoy A. B., Müftüoğlu S. F., Erdem A.  
Life (Basel, Switzerland), vol.13, no.10, 2023 (SCI-Expanded)
- IV. **Do Energy Drinks and Alcohol Effect Myocardium and Skeletal Muscle?**  
Barış V. Ö., ERDEM A.  
Anatolian journal of cardiology, vol.27, no.7, pp.440, 2023 (SCI-Expanded)
- V. **Empagliflozin significantly prevents QTc prolongation due to amitriptyline intoxication.**  
Barış V. Ö., Gedikli E., Dinçsoy A. B., Erdem A.  
Cardiovascular journal of Africa, vol.34, pp.1-5, 2023 (SCI-Expanded)
- VI. **Biological nerve conduit model with de-epithelialized human amniotic membrane and adipose-derived mesenchymal stem cell sheet for repair of peripheral nerve defects**  
YILMAZ M. M., Akdere Ö. E., GÜMÜŞDERELİOĞLU M., Kaynak Bayrak G., KOÇ S., ERDEM A., TUNCER M., ATALAY Ö., TAKE KAPLANOĞLU G., Akarca Dizakar S. Ö., et al.  
Cell and Tissue Research, vol.391, no.3, pp.505-522, 2023 (SCI-Expanded)
- VII. **Can ARNI Prevent Doxorubicin-Induced Cardiotoxicity?**  
Baris V. O., ERDEM A.  
ANATOLIAN JOURNAL OF CARDIOLOGY, vol.26, no.4, pp.342-343, 2022 (SCI-Expanded)
- VIII. **Acute Anxiolytic Effect of Salvia Heldreichiana Essential Oil in Rats**  
Dastan A. O., ARIHAN O., DAĞLI GÜL A. Ş., Yilmaz G., ERDEM A.

ACTA PHYSIOLOGICA, vol.234, pp.81, 2022 (SCI-Expanded)

- IX. **Empagliflozin Significantly Prevents the Doxorubicin-induced Acute Cardiotoxicity via Non-antioxidant Pathways**  
Baris V. O., DİNÇSOY A. B., GEDİKLİ E., ZIRH S., Muftuoglu S. F., ERDEM A.  
CARDIOVASCULAR TOXICOLOGY, vol.21, no.9, pp.747-758, 2021 (SCI-Expanded)
- X. **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 (SCI-Expanded)
- XI. **Protective effect of taurine against doxorubicin-induced cardiotoxicity in rats: echocardiographical and histological findings**  
Baris V. O., Gedikli E., Yersal N., Muftuoglu S. F., Erdem A.  
AMINO ACIDS, vol.51, no.10-12, pp.1649-1655, 2019 (SCI-Expanded)
- XII. **Clinical features and subjective/physiological responses to emotional stimuli in the presence of emotion dysregulation in attention-deficit hyperactivity disorder**  
Taskiran C., KARAİSMAİLOĞLU 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 (SCI-Expanded)
- XIII. **The perinatal effects of maternal caffeine intake on fetal and neonatal brain levels of testosterone, estradiol, and dihydrotestosterone in rats**  
KARAİSMAİLOĞLU S., TUNCER M., BAYRAK Ş., Erdogan G., ERGÜN E., ERDEM A.  
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.390, no.8, pp.827-838, 2017 (SCI-Expanded)
- XIV. **Protective role of erdosteine pretreatment on oleic acid-induced acute lung injury**  
Erdem A., Gedikli E., Yersal N., Karaismailoğlu S., Muftuoglu S. F., Fadillioğlu E., Tuncer M.  
JOURNAL OF SURGICAL RESEARCH, vol.213, pp.234-242, 2017 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **The Protective Role of Erdosteine Pre-treatment on Oleic Acid-induced Acute Lung Injury**  
ERDEM A., GEDİKLİ E., YERSAL N., KARAİSMAİLOĞLU S., TUNCER M., Muftuoglu S., Fadillioğlu E.  
ACTA PHYSIOLOGICA, vol.218, pp.41, 2016 (SCI-Expanded)
- XVII. **The Protective Effect of Taurine on Doxorubicin-induced Hepatotoxicity**  
GEDİKLİ E., YERSAL N., SINGER D., Baris V. O., Muftuoglu S., FADILLIOĞLU E., ERDEM A.  
ACTA PHYSIOLOGICA, vol.218, pp.63, 2016 (SCI-Expanded)
- XVIII. **The Effect of Perinatal Caffeine Administration on the Sex Steroid Hormones in the Brain of Offspring Rats**  
KARAİSMAİLOĞLU S., TUNCER M., Bayrak S., Erdogan G., ERGÜN E., ERDEM A.  
ACTA PHYSIOLOGICA, vol.215, pp.22-23, 2015 (SCI-Expanded)
- XIX. **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., KARAİSMAİLOĞLU S., ERDEM A.  
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.388, no.7, pp.761-771, 2015 (SCI-Expanded)
- XX. **The effect of hypercholesterolemia on the contractions of detrusor strips in response to neural stimulation in rats**  
KARAİSMAİLOĞLU 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 (SCI-Expanded)
- XXI. **The effect of hypercholesterolemia on carbachol-induced contractions of the detrusor smooth muscle in rats: increased role of L-type Ca<sup>2+</sup> channels**  
BALKANCI Z. D., PEHLİVANOĞLU B., BAYRAK S., KARABULUT İ., KARAİSMAİLOĞLU S., ERDEM A.  
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.385, no.11, pp.1141-1148, 2012 (SCI-Expanded)
- XXII. **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 (SCI-Expanded)
- XXIII. **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 (SCI-Expanded)
- XXIV. **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 (SCI-Expanded)
- XXV. **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 (SCI-Expanded)
- XXVI. **Vitamin E protects against lipid peroxidation due to cold-SO<sub>2</sub> coexposure in mouse lung**  
Ergonul Z., Erdem A., Balkanci Z. D., Kilinc K.  
INHALATION TOXICOLOGY, vol.19, no.2, pp.161-168, 2007 (SCI-Expanded)
- XXVII. **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 (SCI-Expanded)
- XXVIII. **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 (SCI-Expanded)
- XXIX. **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 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The effects of prenatal sex steroid hormones on sexual differentiation of the brain**  
KARAIŞMAILOĞLU S., ERDEM A.  
JOURNAL OF THE TURKISH-GERMAN GYNECOLOGICAL ASSOCIATION, vol.14, no.3, pp.163-167, 2013 (Scopus)
- 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. F., Başgül E., Aypar Ü.  
Anestezi Dergisi, vol.13, no.2, pp.132-138, 2005 (Scopus)
- III. **THE EFFECT OF ANTIOXIDANT VITAMINS E AND C ON LIPOPEROXIDATION OF ERYTHROCYTE MEMBRANES DURING HYPERBARIC OXYGENATION**  
Etlük Ö., Tomur A., Dünder K., ERDEM A., GÜNDOĞAN N. Ü.  
Journal of Basic and Clinical Physiology and Pharmacology, vol.8, no.4, 1997 (Scopus)

## Books & Book Chapters

- I. **Kalp Kası**  
ERDEM A.  
in: Sağlık Bilimleri İçin İnsan Fizyolojisi, Erdal Ağar, Editor, İstanbul Tıp Kitapevi, İstanbul, 2023
- II. **Kalp Kası**  
ERDEM A.  
in: İnsan Fizyolojisi, Erdal Ağar, Editor, İstanbul Medikal Yayıncılık (İstanbul Tıp Kitapevleri), İstanbul, pp.141-155,

2020

**III. Skeletal Muscle Physiology I (Frog skeletal muscle)**

ERDEM A.

in: Medical Physiology At The Bench, Balkancı Z.D., Pehlivanoğlu B., Editor, Hacettepe Üniversitesi, Ankara, pp.47-58, 2018

**IV. Central Nervous System Physiology**

ERDEM A.

in: Medical Physiology At The Bench, Balkancı Z.D., Pehlivanoğlu B., Editor, Hacettepe Üniversitesi, Ankara, pp.153-164, 2018

**V. Bölüm 77: "Tiroidin Metabolik Hormonları"**

ERDEM A.

in: Tıbbi Fizyoloji, Berrak Çağlayan Yeğen, Editor, Güneş, pp.951-963, 2017

**VI. 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. Effect of platelet-rich fibrin on colonic anastomosis**

Mahmudzada K., GÜNER G., DİNÇSOY A. B., KAŞIKCI M., ERDEM A., EROL T.

31st Biennial Congress of ISUCRS (International Society of University Colon and Rectal Surgeons), İstanbul, Turkey, 27 October 2022

**II. CARIOPROTECTIVE EFFECT OF TAURINE AGAINST DOXORUBICIN CARDIOTOXICITY IN RATS ECHOCARDIOGRAPHIC AND HISTOLOGIC STUDY**

BARIŞ V. Ö., GEDİKLİ E., YERSAL N., SİNGER 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

**III. 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

**IV. 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

**V. The Protective Effect of Taurine on Doxorubicin induced Hepatotoxicity**

GEDİKLİ E., YERSAL N., SİNGER D., BARIŞ V. Ö., MÜFTÜOĞLU S. F., FADILLIOĞLU E., ERDEM A.

The Physiological Society, 5 - 08 September 2016, vol.218, pp.63

**VI. Cardioprotective effect of taurine against doxorubicin cardiotoxicity in rats: echocardiographic and histologic study**

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

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

**VII. Perinatal Kafein Uygulamasının Yavru Sıçanların Beyin Dokusundaki Seks Steroit Hormonları Üzerine Etkisi**

KARAİSMAİLOĞLU S., TUNCER M., BAYRAK S., Erdoğan G., ERGÜN E., ERDEM A.

41. Ulusal Fizyoloji Kongresi, Çanakkale, Turkey, 9 - 13 September 2015, pp.54-55

**VIII. 2000 – 2011 yılları arasında fizyoloji adresli bilimsel yayınların Türkiye ve Dünya'xdaki durumu**

KARAİSMAİLOĞLU S., ERDEM A.

38. Ulusal Fizyoloji Kongresi, Turkey, 25 - 29 September 2012

**IX. Does hypercholesterolemia affect the contractions of the smooth muscles of the urinary bladder?**

BALKANCI Z. D., PEHLİVANOĞLU B., BAYRAK S., ERDEM A., KARABULUT İ., KARAİSMAİLOĞLU S., Öner G.  
8th Congress of FEPS (Federation of European Physiological Societies), 3 - 07 September 2011

- X. **Hiperkolesterolemik sıçan mesanesinde atropine dirençli kasılma cevabının incelenmesi**  
KARAİSMAİLOĞLU S., BALKANCI Z. D., PEHLİVANOĞLU B., BAYRAK S., KARABULUT İ., ERDEM A.  
35. Ulusal Fizyoloji Kongresi, Turkey, 30 September - 03 October 2009
- XI. **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., KARAİSMAİLOĞLU S.  
34. Ulusal Fizyoloji Kongresi, Turkey, 6 - 10 October 2008
- XII. **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., KARAİSMAİLOĞLU S., Öner G.  
2nd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels, 25 - 28 August 2008
- XIII. **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., KARAİSMAİLOĞLU S.  
2nd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels, 25 - 28 June 2008
- XIV. **Does hypercholesterolemia alter relaxation response to isoproterenol in rat detrusor strips?**  
BALKANCI Z. D., BAYRAK S., PEHLİVANOĞLU B., ERDEM A., KARABULUT İ., KARAİSMAİLOĞLU 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., ARIHAN O., DAĞLI GÜL A. Ş., YILMAZ G., DAŞTAN A. O., Project Supported by Higher Education Institutions, Salvia heldreichiananın Ayaklı Şalba Adaçayı Tek ve Tekrarlayan Dozda Sıçanlar Üzerindeki Anksiyolitik Etkisi, 2021 - 2023

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

ERDEM A., KARAİSMAİLOĞLU 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., KARAİSMAİLOĞLU 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

## Metrics

Publication: 54

Citation (WoS): 248

Citation (Scopus): 395

H-Index (WoS): 7

H-Index (Scopus): 10

## Non Academic Experience

University of Florida, Dept of Pharmacology , USA

Bilecik-Merkez Saęlık Ocaęı

Bilecik-Beşevler Saęlık Ocaęı