

## Prof. Cihan DEMİRCİ TANSEL

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-4534-2020

Yoksis Researcher ID: 8831

### Education Information

Doctorate, Istanbul University, Faculty Of Science, Biyoloji/Zooloji, Turkey 1986 - 1991

Postgraduate, Istanbul University, Faculty Of Science, Biyoloji/Zooloji, Turkey 1984 - 1986

Undergraduate, Istanbul University, Faculty Of Science, Biyoloji/Zooloji, Turkey 1978 - 1984

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, İnsülinin Jukstaglomerular Aycıt (JGA) ve Plazma Renin Aktivitesi (PRA) Üzerine Etkileri, Istanbul University, Faculty of Science, Biyoloji / Zooloji, 1991

Postgraduate, İnsülinin Swiss Black C 57' nin Böbrek Dokusu Üzerine Etkileri, Istanbul University, Faculty of Science, Biyoloji / Zooloji, 1986

### Research Areas

Life Sciences, Animal Biology, Animal Physiology, Natural Sciences

### Academic Titles / Tasks

Professor, Istanbul University, Faculty of Science, Department of Biology, 2006 - Continues

Associate Professor, Istanbul University, Faculty of Science, Department of Biology, 1997 - 2006

Assistant Professor, Istanbul University, Faculty of Science, Department of Biology, 1992 - 1997

Research Assistant, Istanbul University, Faculty of Science, Department of Biology, 1985 - 1992

## Academic and Administrative Experience

İstanbul Üniversitesi, Faculty of Science, Department of Biology, 2017 - Continues

İstanbul Üniversitesi, Faculty of Science, Biyoloji, 2009 - 2012

İstanbul Üniversitesi, Faculty of Science, Biyoloji, 2000 - 2003

## Courses

EVOLÜSYON, Undergraduate, 2018 - 2019, 2017 - 2018, 2013 - 2014, 2012 - 2013

INTRODUCTION TO MOLECULAR EVOLUTION, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013

Animal Physiology, Undergraduate, 2018 - 2019, 2017 - 2018, 2013 - 2014, 2012 - 2013, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999, 1997 - 1998

İLERİ FİZYOLOJİ II, Postgraduate, 2018 - 2019, 2017 - 2018

HAYVAN FİZYOLOJİSİ, Undergraduate, 2018 - 2019, 2017 - 2018, 2013 - 2014, 2012 - 2013

MEMBRAN FİZYOLOJİSİ, Doctorate, 2018 - 2019, 2016 - 2017

UYGULAMALI DENEY HAYVANLARI, Undergraduate, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2012 - 2013

GELİŞİM BİYOLOJİSİ, Undergraduate, 2017 - 2018

İLERİ FİZYOLOJİ I, Postgraduate, 2016 - 2017

HÜCRE BİYOLOJİSİNE GİRİŞ, Undergraduate, 2013 - 2014, 2012 - 2013

HÜCRE FİZYOLOJİSİ, Undergraduate, 2013 - 2014

DENEY HAYVANLARI, Undergraduate, 2013 - 2014, 2012 - 2013

MESLEKİ İNGİLİZCE II, Undergraduate, 2012 - 2013

MESLEKİ İNGİLİZCE I, Undergraduate, 2012 - 2013

Hücre Fizyolojisi , Undergraduate, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000

Biyokimyasal ve Fiz. Yönt , Undergraduate, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999, 1997 - 1998

Genel Biyoloji 2, Undergraduate, 2004 - 2005, 2003 - 2004

Hayvan Fizyolojisi (Yaz Okulu), Undergraduate, 2003 - 2004, 2002 - 2003, 2000 - 2001

Genel Biyoloji 2 (Yaz Okulu), Undergraduate, 2003 - 2004

Genel Zooloji, Undergraduate, 2002 - 2003, 2001 - 2002, 2000 - 2001

Genel zooloji (Yaz Okulu), Undergraduate, 2002 - 2003, 2001 - 2002, 2000 - 2001

Biyokimyasal ve Fiz. Yönt (i.ö.), Undergraduate, 2000 - 2001, 1999 - 2000, 1998 - 1999

Hücre Fizyolojisi (i.ö.), Undergraduate, 2000 - 2001, 1999 - 2000

Hayvan Fizyolojisi (i.ö.), Undergraduate, 1999 - 2000, 1998 - 1999, 1997 - 1998

Özel Hücre Fizyolojisi , Undergraduate, 1997 - 1998

## Advising Theses

Demirci Tansel C., cDNA Cloning and Phylogenetic Analysis of *Gibbula rarilineata* (Class: Gastropoda) Actin Gene, Postgraduate, Ş.EREN(Student), 2019

Demirci Tansel C., Lipopolisakkarit Uygulanan Sıçanların Renin – Anjiyotensin Sistemindeki Konneksinlerin Dağılımında Askorbik Asidin Rolü, Postgraduate, T.KAŞKAVALCI(Student), 2019

DEMİRCİ TANSEL C., Lipopolisakkarit Uygulanan Sıçanlarda Süksinat Reseptörü ile Renin-Anjiyotensin Sistem Arasındaki İlişki, Postgraduate, G.KORKMAZ(Student), 2019

DEMİRCİ TANSEL C., Lipopolisakkarit Uygulanan Sıçanların Karaciğerinde Tempolün Rolü., Postgraduate, S.ÖZDEMİR(Student), 2014

DEMİRCİ TANSEL C., İskemik Ön Koşullama ve Tempolün İzole Sıçan Kalbinde İskemi/Reperfüzyon Hasarındaki Rolü, Postgraduate, D.EROL(Student), 2013

DEMİRCİ TANSEL C., Aktif Protein C ve COX Enzimlerinin Septik Sıçan Kortikal Böbrek Perfüzyonu ve Glukoz Taşıyıcıları Üzerine Etkileri., Doctorate, B.ERGİN(Student), 2013

DEMİRCİ TANSEL C., Staphylococcus aureus ile Enfekte Edilen Sıçanların İzole Kalplerinde İskemi/Reperfüzyon Hasarına Karşı Koenzim-Q10'un Etkisi, Doctorate, S.ÜSTÜNOVA(Student), 2012

DEMİRCİ TANSEL C., Diyabetik Kalpte İskemi/Reperfüzyon Hasarında Mitokondriyal Heksokinazın Rolü., Doctorate, E.GÜREL(Student), 2009

DEMİRCİ TANSEL C., Hiperglisemik Sıçanlarda (Albino wistar) Beta-3 Agonistlerin Kardiyovasküler Sistem ve Adezyon Moleküllerine Etkileri, Doctorate, U.AKSU(Student), 2009

DEMİRCİ TANSEL C., Diyabetik Sıçanlarda Beyin Kan Akımının Nitrik Oksit ve Leptin ile İlişkisi, Postgraduate, B.ERGİN(Student), 2008

DEMİRCİ TANSEL C., Larval Echinococcus granulosus ile Enfekte Edilen Farelerde Hidatidoz Patogenezinde ve Antihelmintik Etkinliğinde Nitrik Oksitin Rolü., Doctorate, A.KANDİL(Student), 2008

DEMİRCİ TANSEL C., Leptinin Sıçan İskelet Kası Kan Akımı ve Nitrik Oksit Sentaz (NOS) Enzimi Dağılımı Üzerine Etkileri, Postgraduate, S.ÜSTÜNOVA(Student), 2007

DEMİRCİ TANSEL C., Donax trunculus (Bivalvia=Donacidae) Ovaryumunun Morfolojisi ve Oogenezinin İnce Yapısı, Doctorate, N.YILMAZER(Student), 2005

DEMİRCİ TANSEL C., Streptozotosin ile Diabetes Mellitus Oluşturulan Farelerin (Albino balb/c) Böbreklerinde Nitrik Oksit Sentaz'ın Rolü, Postgraduate, E.GÜREL(Student), 2004

DEMİRCİ TANSEL C., Lipopolisakkarid Uygulanan Albino Farelerin (BALB/C) Böbreklerdeki Nitrik Oksit Sentaz Aktivitesi ve Jukstaglomerular Aygıt Arasındaki İlişki, Postgraduate, A.KANDİL(Student), 2003

DEMİRCİ TANSEL C., Lipopolisakkarid Verilen Sıçanlarda (Albino wistar) Çeşitli Nitrik Oksit Sentetaz İnhibitörlerinin Hemodinamiğe Etkileri, Postgraduate, U.AKSU(Student), 2003

DEMİRCİ TANSEL C., Nitrik Oksid Sentetaz ve Renin Ganülleri Arasındaki İlişkinin Albino Fare (BALB/C) Böbreğinde Histokimyasal Olarak Değerlendirilmesi, Postgraduate, H.YORULMAZ(Student), 2002

DEMİRCİ TANSEL C., NOS İçermeyen Farelerde Septik Şok Esnasında Bağırsak Dokusunda Meydana Gelen Değişiklikler, Postgraduate, B.SAYAR(Student), 2002

DEMİRCİ TANSEL C., Fludex ve Captopril'in Sıçan Böbreğine Etkileri, Postgraduate, G.EDEN(Student), 1995

DEMİRCİ TANSEL C., Hipertiroidli ve Hipotiroidli Sıçanların Karaciğerlerindeki Yapısal ve Fonksiyonel Değişiklikler, Postgraduate, C.GÜVERİ(Student), 1994

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, June, 2020

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, 2013, ÇUKUROVA ÜNİVERSİTESİ/Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, 2013, May, 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hydrogen Sulphide and Nitric Oxide Cooperate in Cardioprotection Against Ischemia/Reperfusion Injury in Isolated Rat Heart.**  
Ustunova S., Takir S., Yilmazer N., Bulut H., Altindirek D., Ng O., Tansel C., Uydeş-Doğan B. S., Ozbek U., Armutak E., et al.  
In vivo (Athens, Greece), vol.34, pp.2507-2516, 2020 (SCI-Expanded)
- II. **Angiotensin II type 2 receptor blocker PD123319 has more beneficial effects than losartan on ischemia-reperfusion injury and oxidative damage in isolated rat heart**  
KILIÇ A., ÜSTÜNOVA S., Usta C., Bulut H., MERAL İ., Tansel C., Gurevin E.  
CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, vol.97, no.12, pp.1124-1131, 2019 (SCI-Expanded)
- III. **Mycophenolate mofetil improves renal haemodynamics, microvascular oxygenation, and inflammation in a rat model of supra-renal aortic clamping-mediated renal ischaemia reperfusion injury**  
Ergin B., Heger M., Kandil A., Demirci-Tansel C., İnce C.

CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, vol.44, pp.294-304, 2017 (SCI-Expanded)

- IV. **Possible effects of Phillyrea latifolia on weight loss in rats fed a high-energy diet.**  
Yazici-Tutunis S., Gurel-Gurevin E., ÜSTÜNOVA S., Demirci-Tansel C., Mericli F.  
Pharmaceutical biology, vol.54, no.10, pp.1991-7, 2016 (SCI-Expanded)
- V. **Fully Balanced Fluids do not Improve Microvascular Oxygenation, Acidosis and Renal Function in a Rat Model of Endotoxemia**  
Ergin B., ZAFRANI L., Kandil A., BAASNER S., LUPP C., Demirci C., WESTPHAL M., İNCE C.  
SHOCK, vol.46, no.1, pp.83-91, 2016 (SCI-Expanded)
- VI. **The elevation of intraocular pressure is associated with apoptosis and increased immunoreactivity for nitric oxide synthase in rat retina whereas the effectiveness of retina derived relaxing factor is unaffected**  
Takir S., Gurel-Gurevin E., Toprak A., Demirci-Tansel C., Uydes-Dogan B. S.  
EXPERIMENTAL EYE RESEARCH, vol.145, pp.401-411, 2016 (SCI-Expanded)
- VII. **Ascorbic a(c)id improves renal microcirculatory oxygenation in a rat model of renal I/R injury**  
Ergin B., Zuurbier C. J., Bezemer R., Kandil A., Almac E., Demirci C., Ince C.  
JOURNAL OF TRANSLATIONAL INTERNAL MEDICINE, vol.3, no.3, pp.116-125, 2015 (SCI-Expanded)
- VIII. **The renal microcirculation in sepsis**  
Ergin B., Kapucu A., Demirci-Tansel C., İnce C.  
NEPHROLOGY DIALYSIS TRANSPLANTATION, vol.30, pp.169-177, 2015 (SCI-Expanded)
- IX. **Herbal haemorrhoidal cream for haemorrhoids.**  
Gurel E., Ustunova S., Ergin B., Tan N., Caner M., Tortum O., Demirci-Tansel C.  
The Chinese journal of physiology, vol.56, no.5, pp.253-62, 2013 (SCI-Expanded)
- X. **Hexokinase cellular trafficking in ischemia-reperfusion and ischemic preconditioning is altered in type I diabetic heart**  
Gurel E., Ustunova S., Kapucu A., Yilmazer N., Eerbeek O., Nederlof R., Hollmann M. W., Demirci-Tansel C., Zuurbier C. J.  
MOLECULAR BIOLOGY REPORTS, vol.40, pp.4153-4160, 2013 (SCI-Expanded)
- XI. **Effects of Crataegus microphylla on Vascular Dysfunction in Streptozotocin-induced Diabetic Rats**  
Topal G., Koc E., Karaca C., Altug T., Ergin B., Demirci C., Melikoglu G., Mericli A. H., Kucur M., Ozdemir O., et al.  
PHYTOTHERAPY RESEARCH, vol.27, no.3, pp.330-337, 2013 (SCI-Expanded)
- XII. **HISTOCHEMICAL RESEARCH OF NITRIC OXIDE SYNTHETASE AND RENIN GRANULES IN ALBINO MOUSE (BALB/C) KIDNEY**  
Yorulmaz H., Demirci C.  
NOBEL MEDICUS, vol.9, no.1, pp.42-48, 2013 (SCI-Expanded)
- XIII. **MYCOPHENOLATE MOFETIL REDUCED RENAL INFLAMMATION AND PROTECTED RENAL CORTICAL OXYGENATION AFTER ISCHEMIA/REPERFUSION INJURY**  
Bezemer R., Ergin B., Kandil A., Almac E., Demirci C., Ince C.  
INTENSIVE CARE MEDICINE, vol.38, 2012 (SCI-Expanded)
- XIV. **ASCORBIC ACID PROTECTS RENAL OXYGENATION AND) OXIDATIVE STRESS AFTER ISCHEMIA/REPERFUSION INJURY**  
Ergin B., Bezemer R., Kandil A., Almac E., Demirci C., Ince C.  
INTENSIVE CARE MEDICINE, vol.38, 2012 (SCI-Expanded)
- XV. **The acute effects of acetate-balanced colloid and crystalloid resuscitation on renal oxygenation in a rat model of hemorrhagic shock**  
Almac E., Aksu U., Bezemer R., Jong W., Kandil A., YÜRÜK K., Demirci-Tansel C., İNCE C.  
RESUSCITATION, vol.83, no.9, pp.1166-1172, 2012 (SCI-Expanded)
- XVI. **Balanced vs unbalanced crystalloid resuscitation in a near-fatal model of hemorrhagic shock and the effects on renal oxygenation, oxidative stress, and inflammation**  
Aksu U., BEZEMER R., Yavuz B., Kandil A., Demirci C., İNCE C.  
RESUSCITATION, vol.83, no.6, pp.767-773, 2012 (SCI-Expanded)
- XVII. **ACUTE EFFECTS OF BALANCED VERSUS UNBALANCED COLLOID RESUSCITATION ON RENAL**

## **MACROCIRCULATORY AND MICROCIRCULATORY PERFUSION DURING ENDOTOXEMIC SHOCK**

Aksu U., BEZEMER R., Demirci C., İNCE C.

SHOCK, vol.37, no.2, pp.205-209, 2012 (SCI-Expanded)

- XVIII. The role of renal hypoperfusion in development of renal microcirculatory dysfunction in endotoxemic rats**  
LEGRAND M., BEZEMER R., Kandil A., Demirci C., PAYEN D., İNCE C.  
INTENSIVE CARE MEDICINE, vol.37, no.9, pp.1534-1542, 2011 (SCI-Expanded)
- XIX. The Pathogenesis of Acute Kidney Injury and the Toxic Triangle of Oxygen, Reactive Oxygen Species and Nitric Oxide**  
Aksu U., Demirci C., Ince C.  
CONTROVERSIES IN ACUTE KIDNEY INJURY, vol.174, pp.119-128, 2011 (SCI-Expanded)
- XX. Ischemic preconditioning affects hexokinase activity and HKII in different subcellular compartments throughout cardiac ischemia-reperfusion.**  
GUEREL E., SMEELE K. M., EERBEEK O., KOEMAN A., Demirci C., HOLLMANN M. W., ZUURBIER C. J.  
Journal of applied physiology (Bethesda, Md. : 1985), vol.106, no.6, pp.1909-16, 2009 (SCI-Expanded)
- XXI. Proulcerogenic effect of atorvastatin on indomethacin induced gastric injury in rats: The role of iNOS**  
Alp I., Uyanik O., Uydes-Dogan S., Ozyogurtcu H., Gurel A., Atukeren P., Gumustas K., Kapucu A., Demirci C., Ozdemir O.  
BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY, vol.102, pp.40-41, 2008 (SCI-Expanded)
- XXII. The relationship between nitric oxide and leptin in the lung of rat with streptozotocin-induced diabetes.**  
Oztay F., Kandil A., Gurel E., Ustunova S., Kapucu A., Balci H., Akgun-Dar K., Demirci C.  
Cell biochemistry and function, vol.26, pp.162-71, 2008 (SCI-Expanded)
- XXIII. The effect of alpha-lipoic acid on NOS dispersion in the lung of streptozotocin-induced diabetic rats**  
Hurdag C., Uyaner I., Gurel E., UTKUSAVAS A., Atukeren P., Demirci C.  
JOURNAL OF DIABETES AND ITS COMPLICATIONS, vol.22, no.1, pp.56-61, 2008 (SCI-Expanded)
- XXIV. Effects of coenzyme Q10 on the heart ultrastructure and nitric oxide synthase during hyperthyroidism**  
Oztay F., Ergin B., Ustunova S., Balci H., Kapucu A., Caner M., Demirci C.  
CHINESE JOURNAL OF PHYSIOLOGY, vol.50, pp.217-224, 2007 (SCI-Expanded)
- XXV. Effects of artichoke extract supplementation on gonads of cadmium-treated rats**  
Gurel E., Caner M., BAYRAKTAR L., YILMAZER N., DOĞRUMAN H., Demirci C.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.119, no.1, pp.51-59, 2007 (SCI-Expanded)
- XXVI. Inhibition of inducible nitric oxide synthase in murine visceral larva migrans: Effects on lung and liver damage**  
Demirci C., Gargılı A., Kandil A., Cetinkaya H., UYANER I., BOYNUEGRI B., GUMUSTAS M. K.  
CHINESE JOURNAL OF PHYSIOLOGY, vol.49, no.6, pp.326-334, 2006 (SCI-Expanded)
- XXVII. Changes of nitric oxide synthase-containing nerve fibers and parameters for oxidative stress after unilateral cavernous nerve resection or manuplation in rat penis**  
Ozkara H., Alan C., Atukeren P., Uyaner I., Demirci C., Gumusatas M. K., Alici B.  
CHINESE JOURNAL OF PHYSIOLOGY, vol.49, no.3, pp.160-166, 2006 (SCI-Expanded)
- XXVIII. Microcirculatory recruitment maneuvers correct tissue CO2 abnormalities in sepsis**  
ALMAC E., SIEGEMUND M., Demirci C., INCE C. H.  
MINERVA ANESTESIOLOGICA, vol.72, no.6, pp.509-519, 2006 (SCI-Expanded)
- XXIX. Effects of orlistat and its relationship with nitric oxide in the small intestinal mucosa.**  
Caner M., Dogruman H., Taskin E., Kandil A., Demirci C.  
The Chinese journal of physiology, vol.48, no.4, pp.217-22, 2005 (SCI-Expanded)
- XXX. Short-term hyperglycemia increases endothelial glycocalyx permeability and acutely decreases lineal density of capillaries with flowing red blood cells**  
ZUURBIER C., Demirci C., KOEMAN A., VINK H., INCE C.

JOURNAL OF APPLIED PHYSIOLOGY, vol.99, no.4, pp.1471-1476, 2005 (SCI-Expanded)

- XXXI. **The effects of alpha-lipoic acid on nitric oxide synthetase dispersion in penile function in streptozotocin-induced diabetic rats**  
Hurdag C., Ozkara H., Citci S., Uyaner I., Demirci C.  
INTERNATIONAL JOURNAL OF TISSUE REACTIONS-EXPERIMENTAL AND CLINICAL ASPECTS, vol.27, no.3, pp.145-150, 2005 (SCI-Expanded)
- XXXII. **In vivo inhibition of inducible nitric oxide and evaluation of the brain tissue damage induced by Toxocara canis larvae in experimentally infected mice**  
GARGILI A., Demirci C., Kandil A., CETINKAYA H., ATUKEREN P., GUMUSTAS M. K.  
CHINESE JOURNAL OF PHYSIOLOGY, vol.47, no.4, pp.189-196, 2004 (SCI-Expanded)
- XXXIII. **Arteriolar changes in nitric oxide activity and sensitivity during the course of streptozotocin-induced diabetes**  
VAN DAM B., Demirci C., REITSMA H., VAN LAMBALGEN A., VAN DEN BOS G., TANGELDER G., STEHOUWER C.  
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.455, no.1, pp.43-51, 2002 (SCI-Expanded)
- XXXIV. **Mucus production of iNOS deficient mouse intestinal cells in endotoxemia**  
Sayar B., Demirci C.  
CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, vol.29, no.8, 2002 (SCI-Expanded)
- XXXV. **Changes in the relationship between the cholinergic dilatation of arterioles and their basal diameter in diabetic rats is not due to hyperglycemia per se**  
Demirci C., Reitsma H., van Lambalgen A., Stehouwer C., van den Bos G., Tangelder G.  
JOURNAL OF VASCULAR RESEARCH, vol.35, pp.27, 1998 (SCI-Expanded)
- XXXVI. **Leukocyte rolling in diabetic rat skeletal muscle.**  
Reitsma J., Jacobs F., Ijsselmuiden S., van Wijhe M., Demirci C., van Lambalgen A., Tangelder G.  
DIABETOLOGIA, vol.41, 1998 (SCI-Expanded)
- XXXVII. **Changes in the cholinergic response of arterioles in diabetic rats are not due to hyperglycemia per se**  
van Lambalgen A., Reitsma J., Demirci C., van den Bos G., Stehouwer C., Tangelder G.  
DIABETOLOGIA, vol.41, 1998 (SCI-Expanded)
- XXXVIII. **The increased number of rolling leukocytes in 6 week diabetic rats is related to an increased number of polynuclear white blood cells.**  
Jacobs F., Ijsselmuiden S., Reitsma J., van Wijhe M., Demirci C., van Lambalgen A., Tangelder G.  
JOURNAL OF VASCULAR RESEARCH, vol.35, pp.27, 1998 (SCI-Expanded)
- XXXIX. **Progressive impairment of NO-mediated endothelium-dependent vasodilatation in A4 muscle arterioles of diabetic rats.**  
Reitsma J., Demirci C., van Lambalgen A., vander Bos G., Stehouwer C., Tangelder G.  
JOURNAL OF VASCULAR RESEARCH, vol.35, pp.60, 1998 (SCI-Expanded)
- XL. **Maximal endothelium-independent, but not endothelium-dependent, vasodilatory capacity, has deteriorated in arterioles of the spinotrapezius muscle in 6 week diabetic rats.**  
Reitsma J., Jacobs F., Demirci C., van Lambalgen A., von der Bos G., Stehouwer C., Tangelder G.  
PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY, vol.436, no.2, 1998 (SCI-Expanded)
- XLI. **Maximal vasodilatory capacity of acetylcholine, but not of nitroprusside, is preserved in arterioles of the spinotrapezius muscle in 6-week diabetic rats**  
Reitsma J., Demirci C., van Lambalgen A., Vonder Bos G., Stehouwer C., Tangelder G.  
JOURNAL OF VASCULAR RESEARCH, vol.35, no.3, pp.197, 1998 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Leptin Enhances Nitric Oxide Production and Decreases Blood Flow in Rat Skeletal Muscle**  
Üstünova S., Kapucu A., Demirci Tansel C.  
European Journal of Biology, vol.1, pp.1-8, 2022 (Peer-Reviewed Journal)

- II. **Effects of Tempol in Lipopolysaccharide-Induced Liver Injury**  
Serin P. S., Kandil A., Bulut H., Kaşkavalcı T., Bulut E. C., Demirci Tansel C.  
European Journal of Biology, vol.78, no.2, pp.147-155, 2019 (Peer-Reviewed Journal)
- III. **Effects of N-acetylcysteine (NAC) supplementation in resuscitation fluids on renal microcirculatory oxygenation, inflammation, and function in a rat model of endotoxemia.**  
Ergin B., Guerci P., Zafrani L., Nocken F., Kandil A., Gurel-Gurevin E., Demirci-Tansel C., Ince C. H.  
Intensive care medicine experimental, vol.4, pp.29, 2016 (ESCI)
- IV. **TEMPOL has limited protective effects on renal oxygenation and hemodynamics but reduces kidney damage and inflammation in a rat model of renal ischemia/reperfusion by aortic clamping**  
Ergin B., Bezemer ., KANDİL A., DEMİRCİ TANSEL C., İnce C.  
Journal of Clinical and Translational Research, vol.2, pp.116-128, 2015 (Peer-Reviewed Journal)
- V. **Scavenging reactive oxygen species using tempol in the acute phase of renal ischemia/reperfusion and its effects on kidney oxygenation and nitric oxide levels**  
AKSU U., Ergin B., BEZEMER R., Kandil A., Milstein D. M., DEMİRCİ TANSEL C., İNCE C.  
INTENSIVE CARE MEDICINE EXPERIMENTAL, vol.3, no.21, pp.1-10, 2015 (ESCI)
- VI. **Bis maltolato oxovanadium (BMOV) and ischemia/reperfusion-induced acute kidney injury in rats**  
ALMAC E., BEZEMER R., KANDİL A., AKSU U., Milstein D. M., Bakker J., DEMİRCİ TANSEL C., İNCE C.  
INTENSIVE CARE MEDICINE EXPERIMENTAL, vol.2, no.3, pp.1-9, 2014 (ESCI)
- VII. **Effect of Dexamethasone in Mediating Oxidative Stress Induced by Sodium Nitroprusside on Frog Sciatic Nerve Action Potentials**  
AKSU U., Atukeren P., Terzioglu D., Belce A., Demirci-Tansel C.  
BEZMIALEM SCIENCE, vol.1, no.1, pp.21-27, 2013 (ESCI)
- VIII. **The Role of Beta-3-Adrenoceptors in Autonomic Nervous System**  
Aksu U., Belce A., DEMİRCİ TANSEL C.  
BEZMIALEM SCIENCE, vol.1, no.1, pp.16-20, 2013 (ESCI)
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- LXIV. **Diabetes Mellituslu Hayvanların İskelet Kaslarında Nitrik Oksid Sentetaz Histokimyası**  
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## Supported Projects

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Üstünova S., Meral İ., Demirci Tansel C., Armutak E. İ., Gürel Gürevin E., Üyüklü M., Kılıç A., Usta C., Project Supported by Higher Education Institutions, İzole Sıçan Kalbinde İskemi/Reperfüzyon Hasarında Angiotensin Tip 1 ve Tip 2 Reseptör Blokajının Rolü, 2016 - 2020

DEMİRCİ TANSEL C., EREN Ş., Project Supported by Higher Education Institutions, Gibbula rarilineata (Sınıf: Gastropoda) Aktin Geninin cDNA Klonlaması ve Filogenetik Analizi, 2015 - 2019

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, Lipopolisakkarit Uygulanan Sıçanların Renin -

Anjiyotensin Sistemindeki Konneksinlerin Dağılımında Askorbik Asidin Rolü, 2014 - 2019

DEMİRCİ TANSEL C., KORKMAZ G., Project Supported by Higher Education Institutions, Lipopolisakkarit Uygulanan Sıçanlarda Süksinat Reseptörü ile Renin-Anjiyotensin Sistem Arasındaki İlişki, 2014 - 2019

UYDEŞ DOĞAN B. S., ÖZDEMİR O., KALELİ DURMAN D., TAKIR S., TOPRAK A., DEMİRCİ TANSEL C., GÜREL GÜREVİN E., ALP YILDIRIM F. İ., Project Supported by Higher Education Institutions, Hidrojen Sülfürün Sığır Retinal Arterindeki Gevşetici Etkisinde Kalsiyum Pompalarının Rolünün Değerlendirilmesi, 2018 - 2018

Meral İ., Demirci Tansel C., Armutak E. İ., Gürel Gürevin E., Üyüklü M., Üstünova S., Project Supported by Higher Education Institutions, İzole Sıçan Kalbinde İskemi/Reperfüzyon Hasarında TRPC Kanallarının Rolü, 2016 - 2017

KANDİL A., BÜYÜK U., KAŞKAVALCI T., KORKMAZ G., DEMİRCİ TANSEL C., SÖĞÜT İ., YILMAZER N., KAPUCU A., Project Supported by Higher Education Institutions, Deneysel Sepsis Modelinde Angiotensin Dönüştürücü Enzim 2 (ACE 2) Aktivatörünün Etkilerinin Araştırılması, 2014 - 2017

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GÜREL GÜREVİN E., ARMUTAK E. İ., DEMİRCİ TANSEL C., ÖZBEK U., ALTINDİREK D., TAKIR S., ÜSTÜNOVA S., HATIRNAZ NG Ö., DEDEKAYOĞULLARI H., UYDEŞ DOĞAN B. S., Project Supported by Higher Education Institutions, İzole Sıçan Kalbinde Hidrojen Sülfür'ün İskemi/Reperfüzyon Hasarındaki Rolü, 2013 - 2016

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DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, Acute Effects of Different Resuscitation Fluids on Renal Hemodynamics, Microcirculatory Oxygenation, and Renal Function in a Rat Model of Endotoxemia, 2014 - 2014

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, Lipopolisakkarit Uygulanan Sıçanların Karaciğerinde Tempolün Rolü, 2012 - 2014

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, İskemik Ön Koşullama ve Tempolün İzole Sıçan Kalbinde İskemi/Reperfüzyon Hasarındaki Rolü, 2012 - 2014

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, Staphylococcus aureus-induced sepsis and Coenzyme Q10 therapy: An isolated rat heart study, 2013 - 2013

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, Staphylococcus aureus ile Enfekte Edilen Sıçanların İzole Kalplerinde İskemi/Reperfüzyon Hasarına Karşı Koenzim-Q10'un Etkisi, 2010 - 2013

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, Aktif Protein C ve COX Enzimlerinin, Septik Sıçan Kortikal Böbrek Perfüzyonu ve Glukoz Taşıyıcıları Üzerine Etkileri,, 2010 - 2013

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, The role of MMF in the renal ischemia-reperfusion of rat, 2012 - 2012

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, HERBAL HAEMORRHOIDAL CREAM FOR THE TREATMENT OF HAEMORRHOIDS INDUCED BY CROTON OIL IN RATS, 2011 - 2011

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, The Relationship Between Nitric Oxide and Leptin in the Lung of Rat with Streptozotocin-Induced Diabetes, 2008 - 2011

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, Effects of Artichoke Extract Supplementation on Gonads of Cadmium-Treated Rats, 2008 - 2011

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, The Inhibition of Inducible Nitric Oxide Synthase in Murine Visceral Larva Migrans: Effects on Lung and Liver Damage, 2008 - 2011

DEMİRCİ TANSEL C., Project Supported by Higher Education Institutions, Short-term Hyperglycemia Increases Endothelial Glycocalyx Permeability and Acutely Decreases Lineal Density of Capillaries with Flowing Red Blood Cells, 2007 - 2011

Demirci Tansel C., Gürel E., Zuurbier C. J., TUBITAK Project, Mitokondriyal Heksokinazın Azalması Sonucu Oluşan İskemi/Reperfüzyon Hasarına Karşı Diyabetik Kalbin Artan Duyarlılığı, 2007 - 2009

Gürel E., Zuurbier C. J., Eerbeek O., Koeman A., Demirci C., Hollmann M. W., Universities of Other Countries Supported Project, The effects of ischemic preconditioning on the subcellular location of hexokinase during ischemia-reperfusion of the isolated rat heart, 2006 - 2008

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Demirci Tansel C., Kandil A., Çetinkaya H., Gümüştaş M. K., Gargılı Keleş A., TÜBİTAK Project, Toxocara canis'de Nitrik Oksit Sentaz ve Toxocara canis'le Oluşan Viseral Larva Migrans (VLM)'ında Nitrik Oksit'in Rolü, 2004 - 2005

Gürel E., Demirci C., Project Supported by Higher Education Institutions, Streptozotosin (STZ) ile Diabetes Mellitus Yapılan Farelerin (Albino balb/c) Böbreklerinde Nitrik Oksit Sentaz'ın Rolü, 2002 - 2004

DEMİRCİ TANSEL C., Other Supported Projects, Changes in Vascular Reactivity in Experimental Diabetes, 1994 - 1996

## Patent

DEMİRCİ TANSEL C., Ointment for the topical treatment of haemorrhoids, Patent, CHAPTER A Human Needs, 2012

## Memberships / Tasks in Scientific Organizations

Türk Elektron Mikroskopi Derneği, Member, 1995 - Continues

Türk Fizyolojik Bilimler Derneği, Member, 1991 - Continues

## Scientific Consultations

MEF Dershaneleri, Project Consultancy, Istanbul University, Faculty Of Science, Biyoloji , Turkey, 2000 - 2000

## Metrics

Publication: 128

Citation (WoS): 641

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## Congress and Symposium Activities

Cellular Trafficking in Response to Ischemic Preconditioning and Ischemia-Reperfusion Is Altered in the Diabetic Heart, Attendee, TORİNO, Italy, 2011

Herbal Haemorrhoidal Cream for the Treatment of Haemorrhoids Induced by Croton Oil in Rats, Attendee, TORİNO, Italy, 2011

The effects of balanced and unbalanced colloid and crystalloid solutions on renal microvascular perfusion in endotoxemic rats., Attendee, BRUSSEL, Belgium, 2010

The effects of balanced and unbalanced colloid and crystalloid solutions on renal oxygenation in a rat model of hemorrhagic shock and resuscitation, Attendee, Belgium, 2010

Retina derived relaxations are maintained in carotid and mesenteric arteries of L-NAME-induced hypertensive rats., Attendee, Japan, 2009

Leptinin Sıçan İskelet Kası Kan Akımı ve Nitrik Oksit Sentaz (NOS) Dağılımı Üzerine Etkileri, Attendee, ERZURUM, Turkey, 2008

Larval Echinococcus granulosus ile Enfekte Edilen Farelerde Anthelmintik Etkinliğinde Nitrik Oksitin Rolü., Attendee,

ERZURUM, Turkey, 2008

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Ischemic preconditioning (IPC) is associated with altered temporal and subcellular distribution of hexokinase activity, Attendee, Turkey, 2007

Diyabetik Sıçan Pankreasında Leptinin Etkileri ve Nitrik Oksit ile Olan İlişkisi, Attendee, GİRNE, Cyprus (Kktc), 2007

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. Coenzyme Q10 Effects on the Heart Ultrastructure and Nitric Oxide Synthase during Hyperthyroidism, Attendee, NİCE, France, 2006

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Effects of glucocorticoids on alpha adrenergic response during sepsis, Attendee, Turkey, 2006

, Comparative effects of nitric oxide inhibition by aminoguanidine before and after dopamine infusion on intestinal perfusion during endotoxemia, Attendee, AMSTERDAM, Netherlands, 2006

Diyabetik Sıçan Akciğerinde Nitrik Oksit ve Leptin İlişkisi, Attendee, DENİZLİ, Turkey, 2006

T.canis Larvaları ile Deneysel Olarak Enfekte Edilen Farelerin Bağırsağında Nitrik Oksit Sentaz Dağılımı., Attendee, DENİZLİ, Turkey, 2006

Mesane iskemisi ve reperfüzyonu sonrası ürodinamik değişiklikler., Attendee, ANTALYA, Turkey, 2006

Effects of Artichoke Extracts Supplementation on Testis and Ovary in Cadmium Treated Rats, Attendee, DAVOS, Switzerland, 2005

Hiperglisemide, Leptin ve Dekzametazon'un Bazı Kardiyovasküler Parametreler Üzerine Etkileri., Attendee, GAZİANTEP, Turkey, 2005

Streptozotosin ile Diabetes Mellitus Oluşturulan Farelerin Böbreklerinde Nitrik Oksit Sentaz' ın Rolü., Attendee, GAZİANTEP, Turkey, 2005

Viseral Larva Migransda Uyarılabilir Nitrik Oksit Sentaz İnhibisyonununun Akciğer ve Karaciğer Hasarı Üzerine Etkileri, Attendee, GAZİANTEP, Turkey, 2005

Leptinin Eritrosit Hareketi Üzerine Etkisinin, Dopler Sinyallerinin Spektral Analiziyle Gösterilmesi., Attendee, GAZİANTEP, Turkey, 2005

Toxocara canis'in Erişkin ve Larvalarında Nitrik Oksit Sentaz (NOS) Aktivitesi ve Dağılımının İncelenmesi, Attendee, İZMİR, Turkey, 2005

Short-Term Hyperglycemia Increases Endothelial Glycocalyx Permeability with Acute Capillary, Attendee, SAN DİEGO, United States Of America, 2005

Mesenteric Blood Flow Can Be Affected by Aminoguanidine during Sepsis, Attendee, SAN DİEGO, United States Of America, 2005

Oxide Metabolism in Toxocara canis Infected Balb/c mice., Attendee, MUNİH, Germany, 2004

The Effects of Alpha-Lipoic Acid on the Kidney of Streptozotocin Induced Diabetes Mellitus Rats and the Localization of Nitric Oxide Synthase, Attendee, LİZBON, Portugal, 2004

The Effects of ?-Lipoic Acid on the Erectile Dysfunction of the Streptozotocin Induced Diabetic Rats and the Localization of Nitric Oxide Synthase, Attendee, LİZBON, Portugal, 2004

The effects of dexamethasone on frog (Rana ridibunda) sciatic nerve action potentials, during oxidative injury., Attendee, DENİZLİ, Turkey, 2004

Lipid Peroxidation (LPx) and Superoxyde Dismutase (SOD) Activity in Inducible Nitric Oxide Synthase (iNOS) Inhibited and/or Toxocara Infected BALB/C Mice, Attendee, KUŞADASI, Turkey, 2003

Böbrek Dokusundaki Nitrik Oksit ile Renin ve Glikokaliks Arasındaki İlişki., Attendee, GATA-ANKARA, Turkey, 2003

Bağırsaktaki Nitrik Oksit' in Mitotik Aktivitedeki ve Mukus Üretimindeki Rolü, Attendee, GATA-ANKARA, Turkey, 2003

Uyarılabilir Nitrik Oksidin Oluşturduğu Hipotansiyon Dekzametazon ile Önlenir mi?, Attendee, GATA-ANKARA, Turkey, 2003

Histochemical Evaluation of NOS Activity in Toxocara canis Infected Balb/c Mice., Attendee, BURSA, Turkey, 2003

Toxocara canis Larvaları ile Enfekte Balb/c Farelerde Aminoguanidin (AG)'in Karaciğer Dokusu ve Plazma Lipid



Peroksidasyonu (LPx) ile Superoksid Dismutaz (SOD) Aktivitesine Etkilerinin İncelenmesi, Attendee, AFYON, Turkey, 2003

Toxocara canis Larvaları ile Enfekte Balb/c Farelerde Karaciğer Dokusu ve Plazma Total Nitrit-Nitrat Miktarı Üzerine Aminoguanidin (AG)'in Etkisinin İncelenmesi, Attendee, AFYON, Turkey, 2003

Endotoksinin Meydana Getirdiği Böbrek Hasarında iNOS' un Rolü, Attendee, İSTANBUL, Turkey, 2002

Endotoksemide Oluşan Hipotansiyonda Aminoguanidinin Rolü, Attendee, İZMİR, Turkey, 2002

Nitrik Oksidin Renin Sentezi ve Salınmasındaki Rolü, Attendee, İZMİR, Turkey, 2002

Fare Böbreğinde Angiotensin II ve Nitrik Oksit İlişkisi, Attendee, MALATYA, Turkey, 2002

. Endotoksemili Farelerde Uyarılabilir Nitrik Oksit Sentaz (NOS) İnhibisyonunun Böbrek Dokusuna Ekileri, Attendee, MALATYA, Turkey, 2002

Mucus Production of iNOS Deficient Mouse Intestinal Cells in Endotoxemia. Clinical and Experimental Pharmacology and Physiology,, Attendee, AMSTERDAM, Netherlands, 2002

Nitric Oxide Modulates the Distribution of Melanosomes in the Skin Melanocytes of Rana ridibunda., Attendee, CAMERİNO, Italy, 2001

The Effect of TNF-a on Leukocyte Rolling in iNOS Defficient Mice Studied Using OPS Imaging., Attendee, STOKHOLM, Sweden, 2000

Effects of Tumor Necrosis Factor a on Leukocyte Endothelial Cell Interaction in Inducible Nitric Oxide Synthetase (iNOS) Knockout Mice., Attendee, ELAZIĞ, Turkey, 1999

The Increased Number of Rolling Leukocytes in 6-week Diabetic Rats Is Related to An Increased Number of Polynuclear White Blood Cells., Attendee, Turkey, 1998

Progressive Impairment of NO-mediated Endothelium-dependent Vasodilatation in A4 Muscle Arterioles of Diabetic Rats., Attendee, Turkey, 1998

Changes in Cholinergic Respons of Arterioles in Diabetic Rats Are Not Due to Hyperglycemia Per se., Attendee, Turkey, 1998

Changes in the Relationship Between the Cholinergic Dilation of Arterioles and Their Basal Diameter in Diabetic Rat Is Not Due to Hyperglycemia Per se., Attendee, Turkey, 1998

Maximal Endothelium-Independent, but not Endothelium-Dependent, Vasodilatory Capacity, Has Deteriorated in Arterioles of the Spinotrapezius Muscle in 6-week Diabetic Rats, Attendee, Turkey, 1998

Leukocyte Rolling in Diabetic Rat Skeletal Muscle, Attendee, Turkey, 1998

Deneysel Diabet Modelinde Plazma Superoksid Dismutaz Aktivitesinin Değerlendirilmesi., Attendee, İSTANBUL, Turkey, 1998

Diabetes Mellituslu Hayvanların İskelet Kaslarında Nitrik Oksid Sentetaz Histokimyası., Attendee, DİYARBAKIR, Turkey, 1998

Diabetes Mellituslu Sıçanların Spinotrapezius Kasında Nitrik Okside Bağlı Mikrovasküler Değişiklikler, Attendee, ADANA, Turkey, 1997

Diabetik Sıçanlarda Spinotrapezius Kası Arteriollerinin Endotele Bağlı Olarak Asetilkoline Verdiği Cevap., Attendee, BURSA, Turkey, 1996

Altı Haftalık Diabetli Sıçanlarda Kas Mikrovaskular Reaktivitesi, Attendee, İSTANBUL, Turkey, 1996

. Vascular Reactivity in Differently Sized Arterioles of Spinotrapezius Muscle in Diabetic Rats. International Journal of Microcirculation Clinical and Experimental,, Attendee, MUNİH, Germany, 1996

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Hyperglycemia Per se Does not Affect Microvascular Reactivity in Rat Spinotrapezius Muscle, Attendee, Netherlands, 1995

Cyprinotus salinus (Crustacea, Ostracoda) Ovaryum ve Barsağının Ultrastrüktürel İncelenmesi. Zooloji Seksiyonu,, Attendee, EDİRNE, Turkey, 1994

Kalsitoninin Fare Kalp Kası Üzerine Etkilerinin Ultrasütrüktürel Düzeyde İncelenmesi, Attendee, BURSA, Turkey, 1989

İnsülinin Swiss Black C'57' nin Endokrin Pankreasına Etkileri Zooloji, Hidrobiyoloji Seksiyonu ve Poster Bildirileri, Attendee, SİVAS, Turkey, 1988

## Scholarships

Travel Award, Other International Organizations, 1996 - Continues