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International Researcher IDs

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Publons / Web Of Science ResearcherID: P-8727-2015

Yoksis Researcher ID: 23485

Education Information

Post Doctorate, Katholieke Universiteit Leuven, Tıp Fakültesi, Lab Experimental Cardiology, Belgium 2006 - 2007

Doctorate, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey 2000 - 2004

Postgraduate, Akdeniz University, Faculty Of Medicine, Department of Basic Medical Sciences, Turkey 1997 - 2000

Undergraduate, Middle East Technical University, Fen-Edebiyat Fakültesi, Biyoloji, Turkey 1991 - 1997

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Anjiotensin 2 reseptörünün deneysel diyabetik sıçan kalbi elektriksel aktivitesindeki rolü, Ankara University, Sağlık Bilimleri Enstitüsü, Temel Tıp Bilimleri, 2004

Postgraduate, Yaşlılığın oluşturduğu değişikliklerde Nitrik Oksid'xxin rolünün elektrofizyolojik parametrelerle incelenmesi, Akdeniz University, Institute of Health Sciences , 2000

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biophysics, Life Sciences, Biophysics, Molecular Biophysics, Natural Sciences

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Medicine, Department of Basic Medical Sciences, 2016 - Continues

Associate Professor, Akdeniz University, Faculty of Medicine, Department of Basic Medical Sciences, 2010 - 2016

Assistant Professor, Akdeniz University, Faculty of Medicine, Department of Basic Medical Sciences, 2008 - 2010

Research Assistant PhD, Katholieke Universiteit Leuven, Faculty of Medicine, Lab Experimental Cardiology, 2006 - 2007

Courses

Biyomedikal İşaret İşleme, Doctorate, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012
Biyofiziğe Giriş, Postgraduate, 2015 - 2016
Biyofizik, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014
Biyomedikal ve Ölçüm Yöntemleri, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Genel Biyofizik I, Postgraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
İyon Kanalları ve Biyofiziksel Özellikleri, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Biyofizik, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
Akışkanlar Biyofiziği, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Hücre Elektrofizyolojisi, Doctorate, 2015 - 2016, 2014 - 2015, 2012 - 2013
Biyomekanik, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Hücre Biyofiziği, Postgraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Genel Biyofizik II, Postgraduate, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012
Moleküler Biyofizik, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
Nörobiyofizik I, Doctorate, 2012 - 2013
İyon Kanalları, Doctorate, 2011 - 2012
Nörobiyofizik II, Doctorate, 2011 - 2012

Advising Theses

Özdemir S., Doksorubisin ile kalp yetmezliği oluşturulan sıçanlarda timokinonun kardiyoprotektif etkilerinin araştırılması, Doctorate, T.MERCAN(Student), 2021
Özdemir S., Ellagik asidin kardiyak hipertrofi üzerindeki etkisinin elektrofizyolojik olarak incelenmesi, Doctorate, B.EREN(Student), 2019
ÖZDEMİR S., Hipertrofik kalp yetmezliğindeki elektriksel modellemenin Rho/ROCK yolağı ile ilişkisinin incelenmesi, Postgraduate, M.Cenk(Student), 2016
ÖZDEMİR S., Deneysel hipertansiyonun kalpte oluşturduğu elektrofizyolojik değişiklikler üzerine magnezyum tedavisinin etkisi, Doctorate, N.Öztürk(Student), 2014
ÖZDEMİR S., Diyabetik sıçan ventrikül miyositlerinin uyarılma-kasılma çiftlenimindeki değişikliklere sodyum tungstate tedavisinin etkisi, Postgraduate, M.Aydemir(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **THYMOQUINONE AMELIORATES CHEMOTHERAPY-INDUCED COGNITIVE IMPAIRMENT (CHEMOBRAIN) BY INHIBITING OXIDATIVE STRESS, INFLAMMATORY RESPONSE IN THE BRAIN OF RAT**
Akçay G., Mercan T., ÖZDEMİR S., DERİN N.
Comptes Rendus de L'Academie Bulgare des Sciences, vol.77, no.3, pp.424-431, 2024 (SCI-Expanded)
- II. **Left atrial overload detection in ECG using frequency domain features with machine learning and deep learning algorithms**
USLU S., Ozturk N., Kucukseymen S., ÖZDEMİR S.
Biomedical Signal Processing and Control, vol.85, 2023 (SCI-Expanded)
- III. **Cognitive dysfunctions and spontaneous EEG alterations induced by hippocampal amyloid pathology in rats**
Hidisoglu E., Kantar D., ÖZDEMİR S., Yargicoglu P.
Advances in Medical Sciences, vol.67, no.2, pp.328-337, 2022 (SCI-Expanded)
- IV. **Ticagrelor alleviates high-carbohydrate intake induced altered electrical activity of ventricular cardiomyocytes by regulating sarcoplasmic reticulum-mitochondria miscommunication**
OLĞAR Y., DURAK BATIGÜN A., Degirmenci S., Tuncay E., BİLLUR D., ÖZDEMİR S., TURAN B.
MOLECULAR AND CELLULAR BIOCHEMISTRY, vol.476, pp.3827-3844, 2021 (SCI-Expanded)
- V. **Ellagic Acid Prevents Ca²⁺ Dysregulation and Improves Functional Abnormalities of Ventricular**

Myocytes via Attenuation of Oxidative Stress in Pathological Cardiac Hypertrophy

YAMASAN B. E., Mercan T., ERKAN O., ÖZDEMİR S.

CARDIOVASCULAR TOXICOLOGY, vol.21, no.8, pp.630-641, 2021 (SCI-Expanded)

- VI. **Rosuvastatin Reduces L-Type Ca²⁺ Current and Alters Contractile Function in Cardiac Myocytes via Modulation of beta-Adrenergic Receptor Signaling**
Ozturk N., USLU S., Mercan T., ERKAN O., ÖZDEMİR S.
CARDIOVASCULAR TOXICOLOGY, vol.21, no.5, pp.422-431, 2021 (SCI-Expanded)
- VII. **Acute effect of thymoquinone on action potential and ionic currents of rat cardiac myocytes**
MERCAN T., YAMASAN B. E., ERKAN O., ÖZDEMİR S.
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.122, no.6, pp.424-431, 2021 (SCI-Expanded)
- VIII. **Diabetes-induced changes in cardiac voltage-gated ion channels**
Ozturk N., USLU S., ÖZDEMİR S.
WORLD JOURNAL OF DIABETES, vol.12, no.1, pp.1-18, 2021 (SCI-Expanded)
- IX. **Ticagrelor reverses the mitochondrial dysfunction through preventing accumulated autophagosomes-dependent apoptosis and ER stress in insulin-resistant H9c2 myocytes**
OLĞAR Y., Tuncay E., BİLLUR D., Durak A., ÖZDEMİR S., TURAN B.
MOLECULAR AND CELLULAR BIOCHEMISTRY, vol.469, no.1-2, pp.97-107, 2020 (SCI-Expanded)
- X. **The effect of swimming exercise on age-dependent electrophysiological changes in female rat myocardium**
Ozturk N., ÖZDEMİR S.
ARCHIVES OF BIOLOGICAL SCIENCES, vol.72, no.3, pp.393-401, 2020 (SCI-Expanded)
- XI. **Induction of endoplasmic reticulum stress and changes in expression levels of Zn²⁺-transporters in hypertrophic rat heart.**
Olgar Y., Ozdemir S., Turan B.
Molecular and cellular biochemistry, vol.440, pp.209-219, 2018 (SCI-Expanded)
- XII. **Effects of prasugrel on membrane potential and contractile activity of rat ventricular myocytes**
KÜÇÜK M., Celen M. C., Yamasan B. E., KUCUKSEYMEN S., ÖZDEMİR S.
PHARMACOLOGICAL REPORTS, vol.70, no.1, pp.156-160, 2018 (SCI-Expanded)
- XIII. **A novel biomarker for prediction of atrial fibrillation susceptibility in patients with celiac disease.**
KUCUKSEYMEN S., CEKIN A. H., BAYAR N., ARSLAN S., UYGUR KUCUKSEYMEN E., Mercan T., Ozdemir S.
PloS one, vol.13, 2018 (SCI-Expanded)
- XIV. **Rho-kinase inhibition reverses impaired Ca²⁺ handling and associated left ventricular dysfunction in pressure overload-induced cardiac hypertrophy**
Olgar Y., Celen M. C., Yamasan B. E., Ozturk N., TURAN B., ÖZDEMİR S.
CELL CALCIUM, vol.67, pp.81-90, 2017 (SCI-Expanded)
- XV. **Effects of Aging And Exercise Training on Carbon Monoxide Relaxation Response in Skeletal Muscle Feed Artery**
Kocer G., Ulker S. N., OLĞAR Y., ÖZTÜRK ERBOĞA N., ÖZDEMİR S.
ACTA PHYSIOLOGICA, vol.221, pp.31, 2017 (SCI-Expanded)
- XVI. **Effects of losartan treatment on the physicochemical properties of diabetic rat bone**
Donmez B. Ö., Unal M., ÖZDEMİR S., Ozturk N., OĞUZ N., Akkus O.
JOURNAL OF BONE AND MINERAL METABOLISM, vol.35, no.2, pp.161-170, 2017 (SCI-Expanded)
- XVII. **Swimming exercise reverses aging-related contractile abnormalities of female heart by improving structural alterations**
Ozturk N., Olgar Y., ER H., KÜÇÜK M., ÖZDEMİR S.
CARDIOLOGY JOURNAL, vol.24, no.1, pp.85-93, 2017 (SCI-Expanded)
- XVIII. **Effects of magnesium supplementation on electrophysiological remodeling of cardiac myocytes in L-NAME induced hypertensive rats**
Ozturk N., Olgar Y., Aslan M., ÖZDEMİR S.
JOURNAL OF BIOENERGETICS AND BIOMEMBRANES, vol.48, no.4, pp.425-436, 2016 (SCI-Expanded)

- XIX. **Effect of sodium tungstate on visual evoked potentials in diabetic rats.**
Bulut M., DÖNMEZ B. Ö., ÖZTÜRK ERBOĞA N., BAŞARANLAR G., KENCEBAY MANAS C., DERİN N., ÖZDEMİR S.
INTERNATIONAL JOURNAL OF OPHTHALMOLOGY, vol.9, no.5, pp.677-681, 2016 (SCI-Expanded)
- XX. **Calcium release near L-type calcium channels promotes beat-to-beat variability in ventricular myocytes from the chronic AV block dog**
Antoons G., JOHNSON D. M., DRIES E., SANTIAGO D. J., Ozdemir S., Lenaerts I., Beekman J. D. M., Houtman M. J. C., Sipido K. R., Vos M. A.
JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY, vol.89, pp.326-334, 2015 (SCI-Expanded)
- XXI. **Effects of Ticagrelor on Ionic Currents and Contractility in Rat Ventricular Myocytes**
KÜÇÜK M., CELEN M. C., YAMASAN B. E., Olgar Y., ÖZDEMİR S.
CARDIOVASCULAR DRUGS AND THERAPY, vol.29, no.5, pp.419-424, 2015 (SCI-Expanded)
- XXII. **2.1 GHz electromagnetic field does not change contractility and intracellular Ca²⁺ transients but decreases beta-adrenergic responsiveness through nitric oxide signaling in rat ventricular myocytes**
Olgar Y., Hidisoglu E., Celen M. C., Yamasan B. E., YARGICOGLU P., ÖZDEMİR S.
INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, vol.91, no.10, pp.851-857, 2015 (SCI-Expanded)
- XXIII. **Ellagic Acid Reduces L-type Ca²⁺(+) Current and Contractility Through Modulation of NO-GC-cGMP Pathways in Rat Ventricular Myocytes**
Olgar Y., Ozturk N., USTA C., PUDDU P. E., ÖZDEMİR S.
JOURNAL OF CARDIOVASCULAR PHARMACOLOGY, vol.64, no.6, pp.567-573, 2014 (SCI-Expanded)
- XXIV. **Sodium tungstate alleviates biomechanical properties of diabetic rat femur via modulation of oxidative stress**
DÖNMEZ B., Ozturk N., SARIKANAT M., OĞUZ N., SARI R., ÖZDEMİR S.
GENERAL PHYSIOLOGY AND BIOPHYSICS, vol.33, no.4, pp.443-452, 2014 (SCI-Expanded)
- XXV. **Sex Differences and Diabetes Mellitus in Cardiovascular Function**
ÖZDEMİR S., YARAŞ N., TURAN B.
DIABETIC CARDIOMYOPATHY: BIOCHEMICAL AND MOLECULAR MECHANISMS, vol.9, pp.159-176, 2014 (SCI-Expanded)
- XXVI. **The pharmacological use of ellagic acid-rich pomegranate fruit**
USTA C., ÖZDEMİR S., Schiariti M., Puddu P. E.
INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION, vol.64, no.7, pp.907-913, 2013 (SCI-Expanded)
- XXVII. **Long-term administration of rosuvastatin prevents contractile and electrical remodelling of diabetic rat heart**
Ozturk N., YARAŞ N., Ozmen A., ÖZDEMİR S.
JOURNAL OF BIOENERGETICS AND BIOMEMBRANES, vol.45, no.4, pp.343-352, 2013 (SCI-Expanded)
- XXVIII. **Combined Na⁺/Ca²⁺ Exchanger and L-Type Calcium Channel Block as a Potential Strategy to Suppress Arrhythmias and Maintain Ventricular Function**
Bourgonje V. J. A., Vos M. A., Ozdemir S., Doisne N., Acsai K., Varro A., Sztojckov-Ivanov A., Zupko I., Rauch E., Kattner L., et al.
CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY, vol.6, no.2, pp.371-379, 2013 (SCI-Expanded)
- XXIX. **Sodium Tungstate Administration Ameliorated Diabetes-Induced Electrical and Contractile Remodeling of Rat Heart without Normalization of Hyperglycemia**
AYDEMİR M., Ozturk N., Dogan S., Aslan M., Olgar Y., ÖZDEMİR S.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.148, no.2, pp.216-223, 2012 (SCI-Expanded)
- XXX. **Effect of angiotensin II type 1 receptor blocker on osteoporotic rat femurs**
Donmez B. Ö., ÖZDEMİR S., SARIKANAT M., YARAŞ N., Koc P., DEMİR N., Karayalcin B., OĞUZ N.
PHARMACOLOGICAL REPORTS, vol.64, no.4, pp.878-888, 2012 (SCI-Expanded)
- XXXI. **Early exercise training after myocardial infarction prevents contractile but not electrical remodelling or hypertrophy**
Bito V., de Waard M. C., Biesmans L., Lenaerts I., Ozdemir S., van Deel E., Abdel-Mottaleb Y., Driesen R., Holemans P., Duncker D. J., et al.
CARDIOVASCULAR RESEARCH, vol.86, no.1, pp.72-81, 2010 (SCI-Expanded)

- XXXII. **Early Exercise Training After Myocardial Infarction Prevents Contractile, But Not Electrical Remodeling Or Hypertrophy**
Bito V., ÖZDEMİR S., Laenarts I., Biesmans L., de Waard M. C., Duncker D. J., Sipido K. R.
BIOPHYSICAL JOURNAL, vol.96, no.3, 2009 (SCI-Expanded)
- XXXIII. **Angiotensin II Receptor Blockage Prevents Diabetes-Induced Oxidative Damage in Rat Heart**
ÖZDEMİR S., Tandogan B., Ulusu N. N., TURAN B.
FOLIA BIOLOGICA, vol.55, no.1, pp.11-16, 2009 (SCI-Expanded)
- XXXIV. **Pharmacological inhibition of Na/Ca exchange results in increased cellular Ca²⁺ load attributable to the predominance of forward mode block**
Ozdemir S., Bito V., Holemans P., Vinet L., Mercadier J., Varro A., Sipido K. R.
CIRCULATION RESEARCH, vol.102, no.11, pp.1398-1405, 2008 (SCI-Expanded)
- XXXV. **Partial inhibition of NCX reduces inward currents but increases Ca²⁺ loading of cardiac myocytes**
ÖZDEMİR S., Bito V., Sipido K. R.
EUROPEAN HEART JOURNAL, vol.28, pp.4, 2007 (SCI-Expanded)
- XXXVI. **Early exercise training normalizes myofilament function and attenuates left ventricular pump dysfunction in mice with a large myocardial infarction**
de Waard M. C., van der Velden J., Bito V., Ozdemir S., Biesmans L., Boontje N. M., Dekkers D. H. W., Schoonderwoerd K., Schuurbiers H. C. H., de Crom R., et al.
CIRCULATION RESEARCH, vol.100, no.7, pp.1079-1088, 2007 (SCI-Expanded)
- XXXVII. **The effects of short-term training on platelet functions and total antioxidant capacity in rats**
Ficicilar H., Zergeroglu A. M., Ersoz G., Erdogan A., Ozdemir S., Tekin D.
PHYSIOLOGICAL RESEARCH, vol.55, no.2, pp.151-156, 2006 (SCI-Expanded)
- XXXVIII. **Effect of selenite treatment on ultrastructural changes in experimental diabetic rat bones**
Ozdemir S., Ayaz M., Can B., Turan B.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.107, no.2, pp.167-179, 2005 (SCI-Expanded)
- XXXIX. **Effects of diabetes on ryanodine receptor Ca release channel (RyR2) and Ca²⁺ homeostasis in rat heart**
Yaras N., UGUR M., Ozdemir S., GURDAL H., PURALI N., LACAMPAGNE A., VASSORT G., TURAN B.
DIABETES, vol.54, no.11, pp.3082-3088, 2005 (SCI-Expanded)
- XL. **Altered mechanical and electrical activities of the diabetic heart: Possible use of new therapeutics?**
Turan B., Ugur M., Ozdemir S., Yaras N.
Experimental and clinical cardiology, vol.10, pp.189-95, 2005 (SCI-Expanded)
- XLI. **Treatment with AT(1) receptor blocker restores diabetes-induced alterations in intracellular Ca²⁺ transients and contractile function of rat myocardium**
Ozdemir S., Ugur M., Gurdal H., Turan B.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.435, no.1, pp.166-174, 2005 (SCI-Expanded)
- XLII. **Selenium-induced alterations in ionic currents of rat cardiomyocytes**
Ayaz M., Ozdemir S., Yaras N., Vassort G., Turan B.
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.327, no.1, pp.163-173, 2005 (SCI-Expanded)
- XLIII. **Effects of selenium on altered mechanical and electrical cardiac activities of diabetic rat**
Ayaz M., Ozdemir S., Ugur M., Vassort G., Turan B.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.426, no.1, pp.83-90, 2004 (SCI-Expanded)
- XLIV. **Effect of L-arginine on age-related changes in macrophage phagocytic activity**
Izgut-Uysal V. N., Ozkaya Y. G., Ozdemir S., Yargicoglu P., Agar A.
IMMUNOLOGICAL INVESTIGATIONS, vol.33, no.3, pp.287-293, 2004 (SCI-Expanded)
- XLV. **Effect of immobilization and cold stress on visual evoked potentials**
Yaras N., Yargicoglu P., Agar A., Gumuslu S., Abidin i., Ozdemir S.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.113, no.8, pp.1055-1067, 2003 (SCI-Expanded)
- XLVI. **Vegetable oils used as vitamin E vehicle affect the electrical activity of the rat heart**
Ozdemir S., Ayaz M., Tuncer T., Ugur M., Turan B.
PHYSIOLOGICAL RESEARCH, vol.52, no.6, pp.767-771, 2003 (SCI-Expanded)

- XLVII. **Protective effect of selenium treatment on diabetes-induced myocardial structural alterations**
Ayaz M., Can B., Ozdemir S., Turan B.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.89, no.3, pp.215-226, 2002 (SCI-Expanded)
- XLVIII. **Toxic concentrations of selenite shortens repolarization phase of action potential in rat papillary muscle**
Ugur M., Ayaz M., ÖZDEMİR S., Turan B.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.89, no.3, pp.227-238, 2002 (SCI-Expanded)
- XLIX. **Role of nitric oxide on age-dependent alterations: Investigation of electrophysiologic and biochemical parameters**
Ozdemir S., Yargicoglu P., Agar A., Gumuslu S., Bilmen S., Hacıoglu G.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.112, no.3, pp.263-276, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **Modulation of contraction and ionic currents by sodium metabisulfite in rat cardiac myocytes**
Öztürk N., Yaraş N., Özdemir S.
Türk Hijyen ve Deneysel Biyoloji Dergisi, vol.78, no.1, pp.87-100, 2021 (Scopus)
- II. **The Effect of Aging and Exercise Training on Carbon Monoxide Relaxation Response in Thoracic Aorta and Gastrocnemius Feed Artery**
KOÇER G., ÜLKER S., OLĞAR Y., ÖZTÜRK ERBOĞA N., ÖZDEMİR S.
Turkish Bulletin of Hygiene and Experimental Biology, vol.77, no.4, pp.449-458, 2020 (Peer-Reviewed Journal)
- III. **Rosuvastatinin Sol Ventrikül Miyosit Kalsiyum ve Potasyum İyon Kanalları Üzerine Akut Etkisi**
ERKAN O., YAMASAN B. E., MERCAN T., ÖZDEMİR S.
Fırat Üniversitesi Sağlık Bilimleri Tıp Dergisi, vol.34, no.2, pp.161-166, 2020 (Peer-Reviewed Journal)
- IV. **Diyabetik Sıçanlarda Kemik Dokusunda Lipid Peroksidasyonu ve Antioksidan Sistem Üzerine Losartan'ın Etkileri**
ÖZTÜRK ERBOĞA N., ÖZDEMİR S., Dönmez Ö. B., OĞUZ N.
AKDENİZ TIP DERGİSİ, vol.6, no.2, pp.219-225, 2019 (Peer-Reviewed Journal)
- V. **Trace elements in diabetic cardiomyopathy: An electrophysiological overview.**
ÖZTÜRK ERBOĞA N., OLĞAR Y., ÖZDEMİR S.
World J Diabetes, vol.4, no.4, pp.92-100, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Sex differences and diabetes mellitus in cardiovascular function**
ÖZDEMİR S., YARAŞ N.
in: Diabetic Cardiomyopathy: Biochemical and Molecular Mechanisms, Turan B., Dhalla NS., Editor, Springer-Verlag, New York, pp.159-178, 2014
- II. **Sex Differences and Diabetes Mellitus in Cardiovascular Function**
ÖZDEMİR S., YARAŞ N., Turan B.
in: Diabetic Cardiomyopathy, Turan B., Dhalla NS, Editor, Springer, London/Berlin, New York, pp.159-176, 2014

Refereed Congress / Symposium Publications in Proceedings

- I. **Anjiotensin II tip 1 reseptör blokajının diyabetik sıçan femuru üzerindeki biyomekanik etkileri**
DÖNMEZ B. Ö., ÖZDEMİR S., YARAŞ N., ÖZTÜRK ERBOĞA N., DEMİR N., KARAYALÇIN B., SARI R., OĞUZ N.
13. Ulusal Anatomi Kongresi, Cyprus (Kktc)
- II. **Biomechanical effects of sodium tungstate treatment on diabetic rats femur.**

DÖNMEZ B. Ö., ÖZDEMİR S., ÖZTÜRK ERBOĞA N., YARAŞ N., KARAYALÇIN B., DEMİR N., OĞUZ N., SARI R.
XX NATIONA CONGRESS OF THE BULGARIAN ANATOMICAL SOCIETYIX INTERNATIONAL SYMPOSIUM OF
CLINICAL ANATOMY, Bulgaria

- III. **Sulfur dioxide derivative prevents left ventricular hypertrophy and electrophysiological alterations**
YARAŞ N., ÖZDEMİR S., DALAMAN U., ÖZTÜRK ERBOĞA N., OLĞAR Y.
Experimental Biology, United States Of America
- IV. **Oral administration of sodium tungstate reversed diabetic induced oxidative stress in rat femur**
DÖNMEZ B. Ö., ÖZDEMİR S., ÖZTÜRK ERBOĞA N., YARAŞ N., KARAYALÇIN B., DEMİR N., OĞUZ N., SARI R.
XX NATIONA CONGRESS OF THE BULGARIAN ANATOMICAL SOCIETYIX INTERNATIONAL SYMPOSIUM OF
CLINICAL ANATOMY, Bulgaria
- V. **Histomorphological analysis of sodium tungstate induced diabetic rat femur.**
DÖNMEZ B. Ö., ÖZDEMİR S., ÖZTÜRK ERBOĞA N., YARAŞ N., KARAYALÇIN B., DEMİR N., OĞUZ N., SARI R.
XX NATIONA CONGRESS OF THE BULGARIAN ANATOMICAL SOCIETYIX INTERNATIONAL SYMPOSIUM OF
CLINICAL ANATOMY, Bulgaria
- VI. **Kronik Sülfite Uygulamasını Kardiyomiyosit Kalsiyum Homeostazına Etkisi.**
ÖZTÜRK ERBOĞA N., Aydemir M., ÖZDEMİR S., USTA C., YARAŞ N.
22. Ulusal Biyofizik Kongresi, Aydın, Turkey
- VII. **Biomechanical effects of sodium tungstate treatment on diabetic rats femur.**
DÖNMEZ B. Ö., ÖZDEMİR S., ÖZTÜRK ERBOĞA N., YARAŞ N., KARAYALÇIN B., DEMİR N., OĞUZ N., SARI R.
XX NATIONA CONGRESS OF THE BULGARIAN ANATOMICAL SOCIETYIX INTERNATIONAL SYMPOSIUM OF
CLINICAL ANATOMY, Bulgaria
- VIII. **Histomorphological analysis of sodium tungstate induced diabetic rat femur.**
DÖNMEZ B. Ö., ÖZDEMİR S., ÖZTÜRK ERBOĞA N., YARAŞ N., KARAYALÇIN B., DEMİR N., OĞUZ N., SARI R.
XX NATIONA CONGRESS OF THE BULGARIAN ANATOMICAL SOCIETYIX INTERNATIONAL SYMPOSIUM OF
CLINICAL ANATOMY, Bulgaria
- IX. **Effect of chronically administrated sulfite on cardiomyocytes calcium homeostasis.**
ÖZTÜRK ERBOĞA N., Aydemir M., ÖZDEMİR S., USTA C., YARAŞ N.
International Symposium on NEW APPROACHES in CARDIOVASCULAR DISORDERS: From genes & molecules to
clinical applications., Ankara, Turkey
- X. **Chronic Exposure to Sulfur Dioxide Derivatives Alters Left Ventricular Myocytes Electrophysiology
and Calcium Regulation.**
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- LXXXIII. **Candesartan treatment restores diabetes-induced changes in [Ca²⁺]_i transients in cardiomyocytes**
ÖZDEMİR S., Ugur M., Gurdal H., Turan B.
8th Annual Scientific Meeting of the Heart-Failure-Society-of-American, Toronto, Canada, 12 - 15 September 2004, vol.10, no.4, pp.75

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Ugur M., ÖZDEMİR S., Turan B., Gurdal H.
4th CONGRESS OF THE FEDERATION OF THE EUROPEAN PHARMACOLOGICAL SOCIETIES (EPHAR), Porto, Portugal, 14 - 17 July 2004, vol.18, no.1, pp.81
- LXXXV. **Interpretation of relevance of sodium-calcium exchange in action potential of diabetic rat heart by mathematical model**
YARAŞ N., Ayaz M., ÖZDEMİR S., Ugur M., Turan B.
24th European Section of the International Society for Heart Research, Dresden, Germany, 2 - 06 June 2004, vol.36, pp.152
- LXXXVI. **Selenite restores diminished K^+ -currents in diabetic rat heart**
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22nd European Section Meeting of the ISHR, Szeged, Hungary, 3 - 06 July 2002, vol.34, no.6, pp.65
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ÖZDEMİR S., Ayaz M., Uğur Ö., Ugur M., Turan B.
22nd European Section Meeting of the ISHR, Szeged, Hungary, 3 - 06 July 2002, vol.34, no.6, pp.47
- LXXXVIII. **Selenium shortens the prolonged action potentials in experimental diabetic rat hearts**
Turan B., Ayaz M., ÖZDEMİR S., Ugur M.
XVII. ISHR World Congress, Montreal, Canada, 12 - 15 July 2001, pp.14

Supported Projects

ÖZDEMİR S., ÜLKER S., TUBITAK Project, Düzenli Yüzme Egzersizi ile Antrene Hale Gelen Sıçanlarda 20-hidroksieikosatetraenoik Asidin Direnç ve İletim Tipi Arterlerde Vazokonstriktör Yanıtlara Katkısı, 2015 - Continues

ÖZDEMİR S., ERKAN O., Project Supported by Higher Education Institutions, Atipik antipsikotik ketiapinin sıçan kardiyomiyositleri üzerine akut etkisinin elektrofizyolojik yöntemler ile araştırılması, 2020 - 2023

ÖZDEMİR S., MERCAN T., ERKAN O., Project Supported by Higher Education Institutions, Doksorubisin ile kalp yetmezliği oluşturulan sıçanlarda timokinonun kardiyoprotektif etkilerinin araştırılması, 2018 - 2021

ÖZDEMİR S., HİDİŞOĞLU E., YARGIÇOĞLU AKKİRAZ P., Project Supported by Higher Education Institutions, Amiloid Beta Peptid İndüklü Sinaptik Bozuklukların Bilişsel Fonksiyonlar Üzerine Etkisi ve Beyin Osilasyonları ile Değerlendirilmesi, 2018 - 2021

ÖZDEMİR S., ERKAN O., MERCAN T., Project Supported by Higher Education Institutions, Sıçan kardiyomiyositlerinde timokinonun akut etkisinin elektrofizyolojik yöntemler ile incelenmesi, 2019 - 2020

BÜLBÜL M., AKKOYUNLU G., ÖZDEMİR S., Project Supported by Higher Education Institutions, Yüksek Yağlı Diyete Bağlı Gelişen Vagal Otonomik Disfonksiyonda Apelinin Rolünün Araştırılması, 2018 - 2020

YARAŞ N., GÖKÇE Y., ÖZDEMİR S., ÖZDEMİR S., BAŞARICI İ., DALAMAN U., Project Supported by Higher Education Institutions, Deneysel Diabetik Kardiyomiyopatide Bozulan UyarılmaKasılma Süreçleri Üzerine Ace2Ang17 Aksının Etkilerinin İncelenmesi, 2018 - 2020

ÖZDEMİR S., ÜNAL M., AKKUŞ O., DÖNMEZ B. Ö., ÖZTÜRK ERBOĞA N., AYDIN ASLAN M., OLGAR Y., OĞUZ N., Project Supported by Higher Education Institutions, Effects Of Losartan Treatment On The Physicochemical Properties Of Diabetic Rat Bone, 2018 - 2020

DERİN N., DÖNMEZ B. Ö., ÖZTÜRK ERBOĞA N., BAŞARANLAR G., ÖZDEMİR S., KENCEBAY MANAS C., BULUT M., Project Supported by Higher Education Institutions, Effect of sodium tungstate on visual evoked potentials in diabetic rats, 2017 - 2020

ÖZTÜRK ERBOĞA N., ÖZDEMİR S., YAMASAN B. E., MERCAN T., Project Supported by Higher Education Institutions, Kardiyak Miyositlerde Kasılma Fonksiyon Bozukluklarında Sitozolik Serbest Magnezyum Konsantrasyon Değişimlerinin Rolü, 2017 - 2020

OĞUZ N., ÖZDEMİR S., DÖNMEZ B. Ö., ÖNDER M., Project Supported by Higher Education Institutions, OSTEOSİT BENZERİ MLOY4 HÜCRE HATTINA KALSİYUMUN ETKİSİ, 2018 - 2019

Activities in Scientific Journals

Bosnian Journal of Basic Medical Sciences, Editor, 2014 - Continues

European Journal of Biophysics, Editor, 2014 - Continues

TURKISH JOURNAL OF BIOLOGY, Editor, 2014 - 2014

Memberships / Tasks in Scientific Organizations

International Society for Heart Research, Member, 2015 - Continues

ESC-EWGCE, Member, 2010 - Continues

Türk Biyofizik Derneği, Member, 2002 - Continues

Scientific Refereeing

Planta Medica, SCI Journal, October 2016

Archives of Biochemistry and Biophysics, SCI Journal, October 2016

J Mol Cell Cardiol, SCI Journal, June 2016

Int J Cardiol, SCI Journal, June 2016

Br J Nutrition, SCI Journal, June 2016

BMC Complementary and Alternative Medicine, SCI Journal, February 2016

Acta Biochimica et Biophysica Sinica, SCI Journal, November 2015

Int J Rad Biol, SCI Journal, October 2015

Environment International, SCI Journal, September 2015

Int J Rad Biol, SCI Journal, September 2015

Archives of Biochemistry and Biophysics, SCI Journal, June 2015

CELL CALCIUM, SCI Journal, February 2015

WORLD J DIABETES, Other Indexed Journal, September 2014

BIOL TRACE ELEM RES, SCI Journal, March 2014

Metrics

Publication: 149

Citation (WoS): 814

Citation (Scopus): 872

H-Index (WoS): 14

H-Index (Scopus): 16

Congress and Symposium Activities

Association of Thrace Universities 1st International Health Sciences Congress, Attendee, Edirne, Turkey, 2017

3rd Annual International Conference on Public Health, Session Moderator, Athens, Greece, 2017

3rd Annual International Conference on Public Health, Attendee, Athína, Greece, 2017

Zn-Net COST Action TD1304, Attendee, Antalya, Turkey, 2015

27. ULUSAL BİYOFİZİK KONGRESİ, Session Moderator, Malatya, Turkey, 2015

27. ULUSAL BİYOFİZİK KONGRESİ, Panelists, Malatya, Turkey, 2015

ISHR-ES, Attendee, Bordeaux, France, 2015

Frontiers in Cardiovascular Biology, Attendee, Barselona, Spain, 2014

25. Ulusal Biyofizik Kongresi, Attendee, Trabzon, Turkey, 2013

25. ULUSAL BİYOFİZİK KONGRESİ, Session Moderator, Trabzon, Turkey, 2013

36th Meeting of the European Working Group on Cardiac Cellular Electrophysiology, Attendee, Nantes, France, 2012

23. Ulusal Biyofizik Kongresi, Attendee, Edirne, Turkey, 2011

International Symposium on NEW APPROACHES in CARDIOVASCULAR DISORDERS: From genes & molecules to clinical applications, Session Moderator, Ankara, Turkey, 2011

NEW APPROACHES in CARDIOVASCULAR DISORDERS: From genes & molecules to clinical applications, Attendee, Ankara, Turkey, 2011

21. Ulusal Biyofizik Kongresi, Attendee, Diyarbakır, Turkey, 2009

20. Ulusal Biyofizik Kongresi, Attendee, Mersin, Turkey, 2008

ESC Congress 2007, Attendee, Viyana, Austria, 2007

Meeting of the European Working Group on Cardiac Cellular Electrophysiology, Attendee, Floransa, Italy, 2006

Scholarships

ESC travel grant, Other International Organizations, 2007 - 2007

ESC research grant, Other International Organizations, 2006 - 2007