

Assoc. Prof. Ömer ÇELİK

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## Education Information

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- I. Doctorate, Suleyman Demirel University, Sağlık Bilimleri Enstitüsü, Biyofizik, Turkey 2007 - 2011
- II. Post Graduate, Fırat University, Turkey 2001 - 2006

## Foreign Languages

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- I. English, B2 Upper Intermediate

## Certificates, Courses and Trainings

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- I. Health&Medicine, Patch-Clamp Method, RWTH - Aachen - Institute of Physiology - Prof. Dr. Lückhoff's Lab., 2007

## Dissertations

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- I. Doctorate, OKSİDATİF STRESLE AKTİVE EDİLEN TRPM2 KATYON KANALLARININ İNAKTİVASYONUNDA MELATONİNİN ETKİSİNİN PATCH-CLAMP SİSTEMİ İLE ARAŞTIRILMASI, Suleyman Demirel University, Sağlık Bilimleri Enstitüsü, Biyofizik Anabilim Dalı, 2011

## Research Areas

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

## Academic Titles / Tasks

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- I. Associate Professor, Suleyman Demirel University, Tıp Fakültesi, Temel Tıp Bilimleri, 2018 - Continues
- II. Assistant Professor, Suleyman Demirel University, Tıp Fakültesi, Temel Tıp Bilimleri, 2011 - Continues

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

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- I. **Role of Selenium on MPP Neurotoxicity in SH-SY5Y Neuroblastoma Cells: Focus on TRPV1 Channels**  
ÖZ A., ÇELİK Ö., NAZIROĞLU M.  
Turkish Journal Of Biochemistry-Türk Biyokimya Dergisi, vol.44, pp.65-68, 2019 (Journal Indexed in SCI Expanded)
- II. **Patch-Clamp Technique in Neuroscience**  
ÇELİK Ö.  
ACTA PHYSIOLOGICA, vol.225, pp.12, 2018 (Journal Indexed in SCI)

- III. **Oxidative stress of brain and liver is increased by Wi-Fi (2.45 GHz) exposure of rats during pregnancy and the development of newborns**  
ÇELİK Ö., Kahya M. C. , NAZIROĞLU M.  
JOURNAL OF CHEMICAL NEUROANATOMY, vol.75, pp.134-139, 2016 (Journal Indexed in SCI)
- IV. **The effects of electromagnetic radiation (2450 MHz wireless devices) on the heart and blood tissue: role of melatonin**  
GÜMRAL N., SAYGIN M., AŞCI H., UGUZ A. C. , ÇELİK Ö., DOGUC D. K. , SAVAS H. B. , ÇÖMLEKÇİ S.  
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.117, no.11, pp.665-671, 2016 (Journal Indexed in SCI)
- V. **Curcumin inhibits oxidative stress-induced TRPM2 channel activation, calcium ion entry and apoptosis values in SH-SY5Y neuroblastoma cells: Involvement of transfection procedure**  
ÖZ A., ÇELİK Ö.  
MOLECULAR MEMBRANE BIOLOGY, vol.33, pp.76-88, 2016 (Journal Indexed in SCI)
- VI. **Riboflavin and Vitamin E Increase Brain Calcium and Antioxidants, and Microsomal Calcium-ATP-ase Values in Rat Headache Models Induced by Glyceryl Trinitrate**  
BUTUN A., NAZIROĞLU M., DEMİRCİ S., ÇELİK Ö., UĞUZ A. C.  
JOURNAL OF MEMBRANE BIOLOGY, vol.248, no.2, pp.205-213, 2015 (Journal Indexed in SCI)
- VII. **Protective Effects of Riboflavin and Selenium on Brain Microsomal Ca<sup>2+</sup>-ATPase and Oxidative Damage Caused by Glyceryl Trinitrate in a Rat Headache Model**  
NAZIROĞLU M., ÇELİK Ö., UĞUZ A. C. , BÜTÜN A.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.164, no.1, pp.72-79, 2015 (Journal Indexed in SCI)
- VIII. **Melatonin attenuates apoptosis and mitochondrial depolarization levels in hypoxic conditions of SH-SY5Y neuronal cells induced by cobalt chloride (CoCl<sub>2</sub>)**  
UĞUZ A. C. , ÖZ A., YILMAZ B., ALTUNBAŞ S., ÇELİK Ö.  
TURKISH JOURNAL OF BIOLOGY, vol.39, no.6, pp.896-903, 2015 (Journal Indexed in SCI)
- IX. **Liver antioxidant stores protect the brain from electromagnetic radiation (900 and 1800 MHz)-induced oxidative stress in rats during pregnancy and the development of offspring**  
ÇETİN H., NAZIROĞLU M., ÇELİK Ö., YÜKSEL M., Pastaci N., ÖZKAYA M. O.  
JOURNAL OF MATERNAL-FETAL & NEONATAL MEDICINE, vol.27, no.18, pp.1915-1921, 2014 (Journal Indexed in SCI)
- X. **Melatonin and amfenac modulate calcium entry, apoptosis, and oxidative stress in ARPE-19 cell culture exposed to blue light irradiation (405 nm)**  
ARGUN M., TÖK L., Uguz A. C. , ÇELİK Ö., TÖK Ö., NAZIROĞLU M.  
EYE, vol.28, no.6, pp.752-760, 2014 (Journal Indexed in SCI)
- XI. **Wi-Fi (2.45 GHz)- and Mobile Phone (900 and 1800 MHz)-Induced Risks on Oxidative Stress and Elements in Kidney and Testis of Rats During Pregnancy and the Development of Offspring**  
ÖZORAK A., NAZIROĞLU M., ÇELİK Ö., YÜKSEL M., Ozcelik D., ÖZKAYA M. O. , ÇETİN H., Kahya M. C. , KÖSE S. A.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.156, pp.221-229, 2013 (Journal Indexed in SCI)
- XII. **Basic Fibroblast Growth Factor Attenuates Bisphosphonate-Induced Oxidative Injury but Decreases Zinc and Copper Levels in Oral Epithelium of Rat**  
KOÇER G., NAZIROĞLU M., ÇELİK Ö., ÖNAL L., Ozcelik D., Kocer M., SÖNMEZ T. T.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.153, pp.251-256, 2013 (Journal Indexed in SCI)
- XIII. **N-acetyl cysteine attenuates diazinon exposure-induced oxidative stress in rat testis**  
OKSAY T., NAZIROĞLU M., ERGÜN O., Dogan S., Ozatik O., Armagan A., ÖZORAK A., ÇELİK Ö.  
ANDROLOGIA, vol.45, no.3, pp.171-177, 2013 (Journal Indexed in SCI)
- XIV. **Modulation of wireless (2.45 GHz)-induced oxidative toxicity in laryngotracheal mucosa of rat by melatonin**  
AYNALI G., NAZIROĞLU M., ÇELİK Ö., Dogan M., Yarıktas M., YASAN H.  
EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY, vol.270, no.5, pp.1695-1700, 2013 (Journal Indexed in SCI)
- XV. **Capparis ovata Modulates Brain Oxidative Toxicity and Epileptic Seizures in Pentylentetrazol-Induced Epileptic Rats**

NAZIROĞLU M., AKAY M. B. , ÇELİK Ö., YILDIRIM M. I. , BALCI E., YÜREKLİ V. A.

NEUROCHEMICAL RESEARCH, vol.38, no.4, pp.780-788, 2013 (Journal Indexed in SCI)

- XVI. **Zinc Supplementation Attenuates Metallothionein and Oxidative Stress Changes in Kidney of Streptozotocin-Induced Diabetic Rats**  
Ozcelik D., NAZIROĞLU M., Tuncdemir M., ÇELİK Ö., Ozturk M., Flores-Arce M. F.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.150, pp.342-349, 2012 (Journal Indexed in SCI)
- XVII. **Melatonin modulates apoptosis and TRPM2 channels in transfected cells activated by oxidative stress**  
ÇELİK Ö., NAZIROĞLU M.  
PHYSIOLOGY & BEHAVIOR, vol.107, no.3, pp.458-465, 2012 (Journal Indexed in SCI)
- XVIII. **Melatonin modulates wireless (2.45GHz)-induced oxidative injury through TRPM2 and voltage gated Ca<sup>2+</sup> channels in brain and dorsal root ganglion in rat**  
NAZIROĞLU M., ÇELİK Ö., Özgül C., Çiğ B., Doğan S., Bal R., GÜMRAL N., Rodríguez A., Pariente J.  
Physiology and Behavior, vol.105, no.3, pp.683-692, 2012 (Journal Indexed in SCI)
- XIX. **Selenium and L-Carnitine Reduce Oxidative Stress in the Heart of Rat Induced by 2.45-GHz Radiation from Wireless Devices**  
Turker Y., NAZIROĞLU M., GÜMRAL N., ÇELİK Ö., SAYGIN M., Comlekci S., Flores-Arce M.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.143, no.3, pp.1640-1650, 2011 (Journal Indexed in SCI)
- XX. **Aminoethoxydiphenyl borate and flufenamic acid inhibit Ca<sup>2+</sup> influx through TRPM2 channels in rat dorsal root ganglion neurons activated by ADP-ribose and rotenone**  
NAZIROĞLU M., ÖZGÜL C., ÇELİK Ö., Çiğ B., SÖZBİR E.  
Journal of Membrane Biology, vol.241, no.2, pp.69-75, 2011 (Journal Indexed in SCI)
- XXI. **N-acetylcysteine modulates doxorubicin-induced oxidative stress and antioxidant vitamin concentrations in liver of rats**  
KOÇKAR M. C. , NAZIROĞLU M., ÇELİK Ö., TOLA H. T. , BAYRAM D., KOYU A.  
CELL BIOCHEMISTRY AND FUNCTION, vol.28, no.8, pp.673-677, 2010 (Journal Indexed in SCI)
- XXII. **Vitamins C and E treatment combined with exercise modulates oxidative stress markers in blood of patients with fibromyalgia: A controlled clinical pilot study**  
NAZIROĞLU M., AKKUŞ S., Soyupek F., YALMAN K., ÇELİK Ö., ERİŞ S., Uslusoy G. A.  
STRESS-THE INTERNATIONAL JOURNAL ON THE BIOLOGY OF STRESS, vol.13, no.6, pp.498-505, 2010 (Journal Indexed in SCI)
- XXIII. **Oral vitamin C and E combination modulates blood lipid peroxidation and antioxidant vitamin levels in maximal exercising basketball players**  
NAZIROĞLU M., Kilinc F., UGUZ A. C. , ÇELİK Ö., Bal R., Butterworth P. J. , BAYDAR M. L.  
CELL BIOCHEMISTRY AND FUNCTION, vol.28, no.4, pp.300-305, 2010 (Journal Indexed in SCI)
- XXIV. **Effects of Selenium and L-Carnitine on Oxidative Stress in Blood of Rat Induced by 2.45-GHz Radiation from Wireless Devices**  
GÜMRAL N., NAZIROĞLU M., Koyu A., Ongel K., ÇELİK Ö., SAYGIN M., KAHRİMAN M., Caliskan S., Kayan M., Gencil O., et al.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.132, pp.153-163, 2009 (Journal Indexed in SCI)
- XXV. **Vitamin C and E combination modulates oxidative stress induced by X-ray in blood of smoker and nonsmoker radiology technicians**  
Kayan M., NAZIROĞLU M., Celik Ö., YALMAN K., Koeylu H.  
CELL BIOCHEMISTRY AND FUNCTION, vol.27, no.7, pp.424-429, 2009 (Journal Indexed in SCI)
- XXVI. **Topiramate and Vitamin E Modulate the Electroencephalographic Records, Brain Microsomal and Blood Antioxidant Redox System in Pentylentetrazol-Induced Seizure of Rats**  
NAZIROĞLU M., Kutluhan S., UĞUZ A. C. , Celik Ö., Bal R., Butterworth P. J.  
JOURNAL OF MEMBRANE BIOLOGY, vol.229, no.3, pp.131-140, 2009 (Journal Indexed in SCI)
- XXVII. **Effects of Selenium and Topiramate on Lipid Peroxidation and Antioxidant Vitamin Levels in Blood of Pentylentetrazol-Induced Epileptic Rats**  
Kutluhan S., NAZIROĞLU M., Celik Ö., YILMAZ M.

BIOLOGICAL TRACE ELEMENT RESEARCH, vol.129, pp.181-189, 2009 (Journal Indexed in SCI)

- XXVIII. **Venlafaxine modulates depression-induced oxidative stress in brain and medulla of rat**  
Eren I, Naziroglu M., Demirdas A., Celik Ö., Uguz A. C. , Altunbasak A., Ozmen I, Uz E.  
NEUROCHEMICAL RESEARCH, vol.32, no.3, pp.497-505, 2007 (Journal Indexed in SCI)

### Articles Published in Other Journals

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- I. **Erlotinib and Melatonin Treatment Reduce Proliferation of the Neural Tumor Cells (SH-SY5Y) by Mediating TRPV1 Channel Function**  
ÖZKAL B., ÖVEY İ. S. , ÇELİK Ö.  
International Journal of Academic Medicine and Pharmacy, vol.2, no.2, pp.130-139, 2020 (Refereed Journals of Other Institutions)
- II. **Effects of different doses of curcumin on apoptosis, mitochondrialoxidative stress and calcium influx in DBTRG glioblastoma cells**  
ÖZ A., ÇELİK Ö., ÖVEY İ. S.  
Journal of Cellular Neuroscience and Oxidative Stress, vol.9, no.2, pp.617-629, 2017 (Refereed Journals of Other Institutions)
- III. **Antioxidants: novel approach to ROS sensitive TRP channels gating manner.**  
ÖZ A., ÇELİK Ö., BEJERANO I., UĞUZ A. C.  
Electronic Journal of Biology, vol.13, no.3, pp.243-246, 2017 (Refereed Journals of Other Institutions)
- IV. **Acamprosate Modulates Alcohol Induced Oxidative Stress In Alcoholic Patients**  
NAZIROĞLU M., EREN İ., ÇELİK Ö., ÇALIŞKAN A. M.  
Cell Membranes and Free Radical Research, vol.2, no.2, pp.87-91, 2010 (Refereed Journals of Other Institutions)

### Refereed Congress / Symposium Publications in Proceedings

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- I. **Have the TRP channels a role in MPP plus neurotoxicity?**  
Oz A., Celik Ö.  
32nd Congress of the European-College-of-Neuropsychopharmacology (ECNP), Copenhagen, Denmark, 7 - 10 September 2019, vol.29
- II. **LEPTİN VE β-GLUKANIN YARA İYİLEŞMESİ ÜZERİNE ETKİLERİNİN KARŞILAŞTIRILMASI**  
AK C., ÖZGÜNER M. F. , GÜLTEKİN F., BÜYÜKBAYRAM H. İ. , CANDAN İ. A. , ÇELİK Ö.  
1st International Health Sciences and Life Congress, 2 - 05 May 2018, pp.1097-1107
- III. **Role of TRPC1 in CoCl2 induced neuronal cell death 6th Biennial Neuroscience Conference NEURIZONS2015 26 29th May 2015 Göttingen Germany Pages 6 7**  
ÇELİK Ö., ÖZ A., UĞUZ A. C. , NAZIROĞLU M.  
6th Biennial Neuroscience Conference (NEURIZONS2015), 26-29th May 2015, Göttingen, Germany. Pages 6-7., 26 - 29 May 2015
- IV. **SH SY5Y Hücrelerinde kobalt klorür ile indüklenmiş hipoksi modelinde melatoninin koruyucu rolü**  
UĞUZ A. C. , ÖZ A., YILMAZ B., ALTUNBAŞ S., ÇELİK Ö.  
13. Ulusal Sinir Bilim Kongresi, Konya, Turkey, 30 April - 03 May 2015
- V. **Sıçanlarda Bleomisin ile Oluşturulan Akciğer Fibrozisi Modelinde Nigella Sativa Yağının İnflamasyon, Fibrozis ve Antioksidan Enzimler Üzerine Etkisi**  
ÇAKIR M., KAYA S., BİRCAN S., ÇİRİŞ M., KUMBUL DOĞUÇ D., NAZIROĞLU M., DAĞDEVİREN B. H. , SÖZBİR E., ÖZGÜL C., ÇELİK Ö., et al.  
TÜSAD 36. Ulusal Kongresi, İzmir, Turkey, 15 - 19 October 2014
- VI. **Protective effect of riboflavin and selenium on brain microsomal Ca2 ATP ase and oxidative damage caused by glyceryl trinitrate as a rat headache model**

NAZIROĞLU M., ÇELİK Ö., UĞUZ A. C. , BÜTÜN A.

5th International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels, Isparta, Turkey, 9 - 12 September 2014, vol.6, pp.355-356

VII. **N Acetyl Cystein Attenuates Chronic Diazinon Exposure Induced OxidativeStress in Rat Testis**

OKSAY T., NAZIROĞLU M., ERGÜN O., DOĞAN S., ÖZATİK O., ARMAĞAN A., ÖZORAK A., ÇELİK Ö.

4th International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels, 26 - 29 June 2012

VIII. **N Acetyl Cysteine Attenuates Chronic DiazinonExposure Induced Oxidative Stress in Rat Testis**

OKSAY T., NAZIROĞLU M., ERGÜN O., DOĞAN S., ÖZATİK O., ÖZORAK A., ÇELİK Ö.

4th International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels, Isparta, Turkey, 26 - 29 June 2012, vol.4, pp.28

IX. **Naziroglu, M., Uguz, A. C., Ozen, A., Çelik, O., Yalman, K., Demirci, S. (2009). Riboflavin and Selenium Modulates Brain antioxidant Redox System and Microsomal Ca<sup>2</sup>-atpase Activity in NitroglycerineInduced Migraine in Rats, European Journal of Pain. 13(1), 109**

NAZIROĞLU M., UĞUZ A. C. , Özen Bütün A., ÇELİK Ö., yalman k., DEMİRÇİ S.

2009 European Federation of Chapters of the International Association for the Study of Pai, 1 - 02 September 2009, vol.13, pp.109

X. **N-Acetylcysteine Modulates Doxorubicin-Induced Liver Damage in Rats**

KOÇKAR M. C. , NAZIROĞLU M., ÇELİK Ö., TOLA H. T. , BAYRAM D., KOYU A.

3rd International Congress on Cell Membranes and Oxidative Stress Focus on Calcium Signaling and TRP Channels, Isparta, Turkey, 22 - 27 June 2010, vol.2, pp.74

XI. **2 45 GHZ elektromanyetik radyasyonun oksidan antioksidan sistem üzerine etkisi ve L karnitin ile selenyumun koruyuculuğu**

GÜMRAL N., NAZIROĞLU M., KOYU A., ÖNGEL K., ÇALIŞKAN S., SAYGIN M., ÇELİK Ö., KAHRİMAN M.

Türk Fizyolojik Bilimler Derneği 34. Ulusal Fizyoloji Kongresi, Turkey, 6 - 10 October 2008, pp.134

XII. **Depresyonda oluşturulan farelerin beyininde oksidatif stres üzerinde venlafaksinin etkileri**

EREN İ., NAZIROĞLU M., DEMİRDAŞ A., ÇELİK Ö., UĞUZ A. C. , ÖZMEN İ.

1. İyon kanalları ve oksidatif stres kongresi, Turkey, 14 - 16 September 2006

## Activities in Scientific Journals

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- I. SÜLEYMAN DEMİREL ÜNİVERSİTESİ SAĞLIK BİLİMLERİ DERGİSİ - SULEYMAN DEMİREL UNIVERSITY JOURNAL OF HEALTH SCIENCES, Editor, 2018 - Continues

## Citations

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- I. Total Citations (WOS): 834
- II. h-index (WOS): 18