

## Lect. Cemil ÖZGÜL

### Personal Information

**Email:** cozgul@medipol.edu.tr

**Web:** <https://avesis.medipol.edu.tr/cozgul>

**Address:** cozgul@medipol.edu.tr

### International Researcher IDs

ORCID: 0000-0001-9403-2844

Publons / Web Of Science ResearcherID: GBR-2928-2022

ScopusID: 37102363300

Yoksis Researcher ID: 103942

### Education Information

Doctorate, Marmara University, Institute Of Health Sciences, Department Of Biophysics, Turkey 2016 - Continues  
Postgraduate, Suleyman Demirel University, Sağlık Bilimleri Enstitüsü, Biyofizik Anabilim Dalı, Turkey 2010 - 2013  
Undergraduate, Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik Bölümü, Turkey 2005 - 2009

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Arka kök gangliyon hücrelerinde oksidatif stresle aktive edilen TRPM2 katyon kanallarının inhibisyonunda n-asetil sisteinin etkisinin patch-clamp sistemi ile araştırılması, Suleyman Demirel University, Sağlık Bilimleri Enstitüsü, Biyofizik (YI) (Tezli), 2013

### Research Areas

Fundamental Medical Sciences, Biophysics, Physics

### Academic Titles / Tasks

Expert, Istanbul Medipol University, Sağlık Bilim ve Teknolojileri Araştırma Enstitüsü, 2019 - Continues

Lecturer, Istanbul Medipol University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2013 - Continues

### Courses

GENEL BİYOFİZİK, Associate Degree, 2019 - 2020

GEOMETRİK OPTİK, Associate Degree, 2019 - 2020

genel biyofizik, Associate Degree, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
geometrik optik, Associate Degree, 2018 - 2019, 2017 - 2018, 2014 - 2015  
biyofizik, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014  
İŞİTME BİYOFİZİĞİ, Associate Degree, 2015 - 2016, 2014 - 2015  
Optik Aletler Kullanımı, Associate Degree, 2013 - 2014  
İşitme Biyofiziği I, Associate Degree, 2013 - 2014  
Geometrik Optik I, Associate Degree, 2013 - 2014  
İşitme Biyofiziği II, Associate Degree, 2013 - 2014

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

- I. **Active shrinkage protects neurons following axonal transection**  
Aydın M. Ş., Bay S., Yiğit E. N., ÖZGÜL C., Kaval Oğuz E., Konuk E. Y., AYŞİT N., Cengiz N., Erdoğan E., Him A., et al.  
ISCIENCE, vol.26, no.10, 2023 (SCI-Expanded)
- II. **Functional Characterization of KCNMA1 mutation associated with dyskinesia, seizure, developmental delay, and cerebellar atrophy.**  
Yucesan E., Goncu B., Ozgul C., Kebapci A., Aslanger A. D., Akyuz E., Yesil G.  
The International journal of neuroscience, vol.72, pp.1-7, 2023 (SCI-Expanded)
- III. **Two rare autosomal recessive neurological disorders identified by combined genetic approaches in a single consanguineous family with multiple offspring**  
Susgun S., YÜCESAN E., GÖNCÜ B. S., Hasanoglu Sayin S., KINA Ü. Y., ÖZGÜL C., Duzenli O. F., Kocaturk O., Calik M., Ozbek U., et al.  
Neurological Sciences, 2023 (SCI-Expanded)
- IV. **Modulation of oxidative stress and Ca<sup>2+</sup> mobilization through TRPM2 channels in rat dorsal root ganglion neuron by Hypericum perforatum**  
NAZIROĞLU M., Çiğ B., ÖZGÜL C.  
Neuroscience, vol.263, pp.27-35, 2014 (SCI-Expanded)
- V. **Apple cider vinegar modulates serum lipid profile, erythrocyte, kidney, and liver membrane oxidative stress in ovariectomized mice fed high cholesterol**  
NAZIROĞLU M., Güler M., ÖZGÜL C., Saydam G., Küçükayaz M., Sözbir E.  
Journal of Membrane Biology, vol.247, no.8, pp.667-673, 2014 (SCI-Expanded)
- VI. **Role of TRPM2 cation channels in dorsal root ganglion of rats after experimental spinal cord injury.**  
Naziroğlu M., Uğuz A. C., Ismailoğlu Ö., Çiğ B., Özgül C., Borcak M.  
Muscle & nerve, vol.48, no.6, pp.945-50, 2013 (SCI-Expanded)
- VII. **Neuroprotection induced by N-acetylcysteine against cytosolic glutathione depletion-induced Ca<sup>2+</sup> influx in dorsal root ganglion neurons of mice: Role of TRPV1 channels**  
Nazgroğlu M., Çiğ B., Özgül C.  
Neuroscience, vol.242, pp.151-160, 2013 (SCI-Expanded)
- VIII. **Selenium Modulates Oxidative Stress-Induced TRPM2 Cation Channel Currents in Transfected Chinese Hamster Ovary Cells**  
NAZIROĞLU M., Özgül C., Küçükayaz M., Çiğ B., Hebeisen S., Bal R.  
Basic and Clinical Pharmacology and Toxicology, vol.112, no.2, pp.96-102, 2013 (SCI-Expanded)
- IX. **Vitamin e modulates oxidative stress and protein kinase C activator (PMA)-induced TRPM2 channel gate in dorsal root ganglion of rats**  
NAZIROĞLU M., Özgül C.  
Journal of Bioenergetics and Biomembranes, vol.45, no.6, pp.541-549, 2013 (SCI-Expanded)
- X. **TRPM2 channel protective properties of N-acetylcysteine on cytosolic glutathione depletion dependent oxidative stress and Ca<sup>2+</sup> influx in rat dorsal root ganglion**  
Özgül C., NAZIROĞLU M.  
Physiology and Behavior, vol.106, no.2, pp.122-128, 2012 (SCI-Expanded)

- XI. **Effects of antagonists and heat on TRPM8 channel currents in dorsal root ganglion neuron activated by nociceptive cold stress and menthol**  
NAZIROĞLU M., Özgül C.  
Neurochemical Research, vol.37, no.2, pp.314-320, 2012 (SCI-Expanded)
- XII. **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 (SCI-Expanded)
- XIII. **Glutathione modulates Ca<sup>2+</sup> influx and oxidative toxicity through TRPM2 channel in rat dorsal root ganglion neurons**  
NAZIROĞLU M., Özgül C., Çiğ B., Doğan S., Uğuz A. C.  
Journal of Membrane Biology, vol.242, no.3, pp.109-118, 2011 (SCI-Expanded)
- XIV. **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., Sözbir E.  
Journal of Membrane Biology, vol.241, no.2, pp.69-75, 2011 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Effects of protein kinase C activator PMA on TRPV1 channels Protein kinaz C aktivatörü PMA'nın TRPV1 kanalları Üzerindeki etkileri**  
ÖZGÜL C.  
Hacettepe University Journal of the Faculty of Pharmacy, vol.35, no.1, pp.42-73, 2015 (Scopus)
- II. **Apple cider vinegar supplementation modulates lipid peroxidation and glutathione peroxidase values in lens of ovariectomized mice**  
NAZIROĞLU M., Güler M., Küçükayaz M., Övey I. S., ÖZGÜL C.  
Cell Membranes and Free Radical Research, vol.4, no.3, pp.209-214, 2012 (Scopus)
- III. **Role of TRPM2 cation channels on molecular pathways in neurological cells Nörolojik hücrelerde TRPM2 katyon kanallarının moleküler mekanizmalardaki rolleri**  
ÖZGÜL C., NAZIROĞLU M.  
Journal of Experimental and Clinical Medicine (Turkey), vol.27, no.4, pp.144-151, 2010 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Otozomal Resesif Nörogelişimsel Bozukluğun Nedeni Olarak Bi-alelik NALCN Varyantı**  
SÜSGÜN S., YÜCESAN E., Göncü B., KINA Ü. Y., Hasanoğlu S., ÖZGÜL C., ÇALIK M., ÖZBEK U., UĞUR İŞERİ S. A.  
"Uluslararası Katılımlı" 14. Ulusal Tıbbi Genetik Kongresi, Turkey, 20 - 22 November 2020
- II. **Identification and functional characterization of a novel homozygous mutation in KCNMA1 encoding voltage and calcium sensitive potassium channel is associated with dyskinesia, epilepsy, intellectual disability, cerebellar and corticospinal tract atrophy.**  
YÜCESAN E., ASLANGER A. D., ÖZGÜL C., YEŞİL SAYIN G.  
European Human Genetics Virtual Conference, 6 - 09 June 2020
- III. **Selenium attenuates calcium ion influx and oxidative stress through voltage gated and TRPM2 cation channels in transfected cells**  
NAZIROĞLU M., ÖZGÜL C., ÇİĞ B., BAL R.  
4th International Congress on Cell Membranes and Oxidative Stress:Focus on Calcium Signaling andTRP Channels, Isparta, Turkey, 26 - 29 June 2012
- IV. **Neuroprotection induced by glutathione (GSH) and N-acetylcysteine against cytosolic GSH depletion dependent TRPV1 currents and Ca<sup>2+</sup> influx in dorsal root ganglion neuron**

NAZIROĞLU M., ÖZGÜL C., ÇİĞ B.

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

- V. **N acetylcysteine inhibits glutathione depletion-induced Ca<sup>2+</sup> influx through TRPM2 currents in dorsal root ganglion neurons**

ÖZGÜL C., NAZIROĞLU M.

First International meeting on Ion Channel Signaling Mechanisms: From basic science to clinical application, 31 October - 04 November 2011

- VI. **Anthranilic acid and heat inhibit TRPM8 channels of rat dorsal root ganglion neurons activated by noxious cold induced-allodynia and menthol**

NAZIROĞLU M., ÖZGÜL C.

First International meeting on Ion Channel Signaling Mechanisms: From basic science to clinical application, Morocco, 31 October - 04 November 2011, pp.42

- VII. **Elma Sirkesinin Streptozotosin ile Diyabet Oluşturulan Farelerde Böbrek ve Lens Dokularındaki Oksidatif Stres Üzerine Düzenleyici Etkisinin Araştırılması**

NAZIROĞLU M., ÖZGÜL C., ÖVEY İ. S., ÇİĞ B.

22. Ulusal Biyofizik Kongresi, Aydın, Turkey, 28 September - 01 October 2010