

Prof. ELÇİN ÖZGÜR BÜYÜKATALAY

Personal Information

Email: elcinozgur@gazi.edu.tr

Other Email: elcin.ozgur@gmail.com

Web: <https://avesis.gazi.edu.tr/elcinozgur>

International Researcher IDs

ScholarID: nNJFVpAAAAAJ

ORCID: 0000-0001-6428-918X

Publons / Web Of Science ResearcherID: GVT-5577-2022

ScopusID: 25650311300

Yoksis Researcher ID: 133773



Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Biyofizik (Dr), Turkey 2006 - 2011

Postgraduate, Gazi University, Sağlık Bilimleri Enstitüsü, Biyofizik (YI) (Tezli), Turkey 2003 - 2006

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1997 - 2002

Foreign Languages

French, B1 Intermediate

English, C1 Advanced

Certificates, Courses and Trainings

Quality Management, Kalite Eğitimleri, Gazi Üniversitesi, 2022

Vocational Training, Eğitimcilerin Eğitimi Kursu , Gazi Üniversitesi Tıp Fakültesi, 2017

Vocational Training, "Microscopy and Spectroscopy for Solving Problems in Biophysics at the Nanoscale", Mersin Üniversitesi Tıp Fakültesi, 2008

Vocational Training, "Advanced Topics in Cell Model Systems", CNR, The National Research Council, Rome, Italy., 2008

Dissertations

Doctorate, GSM-EDGE modülasyonlu radyo frekans alanların hepatosellüler karsinom hücrelerine etkileri, Gazi University, Sağlık Bilimleri Enstitüsü, Biyofizik (Dr), 2011

Postgraduate, Cep telefonu radyasyonunun farklı frekans-şiddetteki ses ile değişimi ve doku hidroksprolin seviyesine etkisi, Gazi University, Sağlık Bilimleri Enstitüsü, Biyofizik (YI) (Tezli), 2005

Research Areas

Biophysics, Neurophysiology, Biological Spectroscopy, Cell Membrane and Liposomes, Molecular Biophysics, Neurobiophysics, Radiation Biophysics

Academic Titles / Tasks

Professor, Gazi University, Tıp Fakültesi, Temel Tıp Bilimleri, 2023 - Continues

Associate Professor, Gazi University, Tıp Fakültesi, Temel Tıp Bilimleri, 2017 - 2023

Academic and Administrative Experience

Rektörlük Kalite Komisyonu Üyesi, Gazi University, Tıp Fakültesi, Temel Tıp Bilimleri, 2023 - Continues

Manager of Research and Application Center, Gazi University, Rektörlük, Proje Koordinasyon Uygulama Araştırma Merkezi, 2022 - Continues

Assistant Manager of Research and Application Center, Gazi University, Rektörlük, Proje Koordinasyon Uygulama Araştırma Merkezi, 2022 - 2022

Ethics Committee Member, Gazi University, Tıp Fakültesi, Gazi University Clinical Research Ethics Committee, 2020 - 2021

Advising Theses

Özgür Büyükcatalay E., Özgüner H. M., Radyofrekans Uygulaması Yapılan Fare Meme Kanseri Modelinde Primer Tümör ve Metastazda Kisspeptin Düzeyinin İncelenmesi, Doctorate, S.Çelebi(Student), 2024

Özgür Büyükcatalay E., Tümörlü doku tespiti için pennes'in biyosı transfer yaklaşımıyla kan perfüzyon parametresinin tahmininde hibrit bir model: zaman domeninde sonlu farklar yöntemi ve sezgisel algoritmalar, Postgraduate, B.GÜRSU(Student), 2023

Özgür Büyükcatalay E., Investigation Of The Dna Repair Mechanisms Genes For The Adaptive Response Due To In Vivo Radio Frequency Field Application Against Genotoxic Damage Of Bleomycin , Doctorate, Y.KÜÇÜKBAĞRIÇIK(Student), 2021

Jury Memberships

Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, July, 2024

Associate Professor Exam, Associate Professor Exam, Gazi Üniversitesi, December, 2023

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, May, 2022

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, May, 2022

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, May, 2022

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, May, 2022

Designed Courses And Trainings

Özgür Büyükcatalay E., TÜBİTAK 1001 Atölye Çalışması, June 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- Development of a safety protocol for training and using SARS-CoV-2 detection dogs: A Pilot Study.**
Demirbas Y. S., Kismali G., Saral B., Sareyyüpoğlu B., Habiloğlu A. D., Öztürk H., Baş B., Özvardar T., Alpay M., İnce N., et al.

Journal of veterinary behavior : clinical applications and research : official journal of : Australian Veterinary Behaviour Interest Group, International Working Dog Breeding Association, vol.60, pp.79-88, 2023 (SCI-Expanded)

- II. **Is diagnostic performance of SARS-CoV-2 detection dogs reduced-due to virus variation- over the time?**
ÖZGÜR BÜYÜKATALAY E., SALGIRLI DEMİRBAŞ Y., BOZDAYI G., KISMALI G., İLHAN M. N.
APPLIED ANIMAL BEHAVIOUR SCIENCE, vol.258, 2023 (SCI-Expanded)
- III. **Effects of radiofrequency radiation on apoptotic and antiapoptotic factors in colorectal cancer cells**
GÖKÇEN S., Kurt B., KÜÇÜKBAĞRIÇIK Y., ÖZGÜR BÜYÜKATALAY E., KISMALI G.
ELECTROMAGNETIC BIOLOGY AND MEDICINE, vol.41, no.3, pp.325-334, 2022 (SCI-Expanded)
- IV. **Investigation of oxidative damage, antioxidant balance, DNA repair genes, and apoptosis due to radiofrequency-induced adaptive response in mice.**
Kucukbagriacik Y., Dastouri M., Ozgur-Buyukatalay E., Akarca Dizakar O., Yegin K.
Electromagnetic biology and medicine, vol.41, pp.389-401, 2022 (SCI-Expanded)
- V. **Short-term exposure to radiofrequency radiation and metabolic enzymes' activities during pregnancy and prenatal development**
TOMRUK A., ÖZGÜR BÜYÜKATALAY E., Ozturk G., Ulusu N. N.
ELECTROMAGNETIC BIOLOGY AND MEDICINE, vol.41, no.4, pp.370-378, 2022 (SCI-Expanded)
- VI. **Effects of radiofrequency radiation on colorectal cancer cell proliferation and inflammation**
Özgür Büyükatalay E., Kayhan H., Kismali G., Senturk F., Sensoz M., Ozturk G., Sel T.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.46, no.5, pp.525-532, 2021 (SCI-Expanded)
- VII. **The Effects of 2100 MHz Radio Frequency Radiation on Thyroid Tissues**
Tuncal S., Onalan A. K., Aydogan F., Unsal V., Yumusak N., Buyukatalay E., Ozturk G., Seyhan N., Celepli S., Devrim E., et al.
WEST INDIAN MEDICAL JOURNAL, vol.69, no.1, pp.51-55, 2021 (SCI-Expanded)
- VIII. **Neurodegenerative changes and apoptosis induced by intrauterine and extrauterine exposure of radiofrequency radiation**
GÜLER ÖZTÜRK G., ÖZGÜR BÜYÜKATALAY E., KELEŞ H., TOMRUK A., VURAL S., Seyhan N.
JOURNAL OF CHEMICAL NEUROANATOMY, vol.75, pp.128-133, 2016 (SCI-Expanded)
- IX. **The 2100 MHz radiofrequency radiation of a 3G-mobile phone and the DNA oxidative damage in brain**
Sahin D., ÖZGÜR BÜYÜKATALAY E., GÜLER ÖZTÜRK G., TOMRUK A., ÜNLÜ İ., SEPİCİ DİNÇEL A., Seyhan N.
JOURNAL OF CHEMICAL NEUROANATOMY, vol.75, pp.94-98, 2016 (SCI-Expanded)
- X. **GSM-like radiofrequency exposure induces apoptosis via caspase-dependent pathway in infant rabbits**
Meral O., Ozgur E., Kismali G., Guler G., Alpay M., Sel T., Seyhan N.
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.117, no.11, pp.672-676, 2016 (SCI-Expanded)
- XI. **The effects of 2100-MHz radiofrequency radiation on nasal mucosa and mucociliary clearance in rats**
Aydogan F., Aydin E., Koca G., ÖZGÜR BÜYÜKATALAY E., ATİLLA P., Tuzuner A., Demirci S., TOMRUK A., Ozturk G., Seyhan N., et al.
INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY, vol.5, no.7, pp.626-632, 2015 (SCI-Expanded)
- XII. **The effects of N-acetylcysteine and epigallocatechin-3-gallate on liver tissue protein oxidation and antioxidant enzyme levels after the exposure to radiofrequency radiation**
ÖZGÜR BÜYÜKATALAY E., Sahin D., TOMRUK A., GÜLER ÖZTÜRK G., SEPİCİ DİNÇEL A., Altan N., Seyhan N.
INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, vol.91, no.2, pp.187-193, 2015 (SCI-Expanded)
- XIII. **The effect of 2100 MHz radiofrequency radiation of a 3G mobile phone on the parotid gland of rats**
Aydogan F., ÜNLÜ İ., Aydin E., YUMUŞAK N., DEVRİM E., Samim E. E., ÖZGÜR BÜYÜKATALAY E., Unsal V., TOMRUK A., Ozturk G., et al.
AMERICAN JOURNAL OF OTOLARYNGOLOGY, vol.36, no.1, pp.39-46, 2015 (SCI-Expanded)

- XIV. **Mobile Phone Radiation Alters Proliferation of Hepatocarcinoma Cells**
 ÖZGÜR BÜYÜKATALAY E., GÜLER ÖZTÜRK G., KISMALI G., Seyhan N.
 CELL BIOCHEMISTRY AND BIOPHYSICS, vol.70, no.2, pp.983-991, 2014 (SCI-Expanded)
- XV. **Effects of Prenatal and Postnatal Exposure to GSM-Like Radiofrequency on Blood Chemistry and Oxidative Stress in Infant Rabbits, an Experimental Study**
 ÖZGÜR BÜYÜKATALAY E., KISMALI G., GÜLER ÖZTÜRK G., Akcay A., Ozkurt G., SEL T., Seyhan N.
 CELL BIOCHEMISTRY AND BIOPHYSICS, vol.67, no.2, pp.743-751, 2013 (SCI-Expanded)
- XVI. **The influence of 1800 MHz GSM-like signals on blood chemistry and oxidative stress in non-pregnant and pregnant rabbits**
 KISMALI G., ÖZGÜR BÜYÜKATALAY E., GÜLER ÖZTÜRK G., Akcay A., SEL T., Seyhan N.
 INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, vol.88, no.5, pp.414-419, 2012 (SCI-Expanded)
- XVII. **The effect of radiofrequency radiation on DNA and lipid damage in female and male infant rabbits**
 GÜLER ÖZTÜRK G., TOMRUK A., ÖZGÜR BÜYÜKATALAY E., Sahin D., SEPİCİ DİNÇEL A., Altan N., Seyhan N.
 INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, vol.88, no.4, pp.367-373, 2012 (SCI-Expanded)
- XVIII. **Mutagenic and morphologic impacts of 1.8 GHz radiofrequency radiation on human peripheral blood lymphocytes (hPBLs) and possible protective role of pre-treatment with Ginkgo biloba (EGb 761)**
 EŞMEKAYA M. A., Aytekin E., ÖZGÜR BÜYÜKATALAY E., GÜLER ÖZTÜRK G., ERGÜN M. A., ÖMEROĞLU S., Seyhan N.
 SCIENCE OF THE TOTAL ENVIRONMENT, vol.410, pp.59-64, 2011 (SCI-Expanded)
- XIX. **APOPTOSIS RESULTED FROM RADIOFREQUENCY RADIATION EXPOSURE OF PREGNANT RABBITS AND THEIR INFANTS**
 GÜLER ÖZTÜRK G., ÖZGÜR BÜYÜKATALAY E., KELEŞ H., TOMRUK A., VURAL S., Seyhan N.
 BULLETIN OF THE VETERINARY INSTITUTE IN PULAWY, vol.55, no.1, pp.127-134, 2011 (SCI-Expanded)
- XX. **Mobile phone radiation-induced free radical damage in the liver is inhibited by the antioxidants n-acetyl cysteine and epigallocatechin-gallate**
 Ozgur E., Guler G., Seyhan N.
 INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, vol.86, no.11, pp.935-945, 2010 (SCI-Expanded)
- XXI. **The effect of radiofrequency radiation on DNA and lipid damage in non-pregnant and pregnant rabbits and their newborns**
 GÜLER ÖZTÜRK G., TOMRUK A., Ozgur E., Seyhan N.
 GENERAL PHYSIOLOGY AND BIOPHYSICS, vol.29, no.1, pp.59-66, 2010 (SCI-Expanded)
- XXII. **Protein oxidation under extremely low frequency electric field in guinea pigs. Effect of N-acetyl-L-cysteine treatment**
 GÜLER ÖZTÜRK G., Turkozer Z., ÖZGÜR BÜYÜKATALAY E., TOMRUK A., Seyhan N., KARASU Ç.
 GENERAL PHYSIOLOGY AND BIOPHYSICS, vol.28, no.1, pp.47-55, 2009 (SCI-Expanded)
- XXIII. **Antioxidants alleviate electric field-induced effects on lung tissue based on assays of heme oxygenase-1, protein carbonyl content, malondialdehyde, nitric oxide, and hydroxyproline**
 Gueler G., Tuerkoezer Z., ÖZGÜR BÜYÜKATALAY E., Seyhan N.
 SCIENCE OF THE TOTAL ENVIRONMENT, vol.407, no.4, pp.1326-1332, 2009 (SCI-Expanded)
- XXIV. **The Evaluation of Epigallocatechin Gallate and N-Acetylcysteine on Serum Testosterone Levels in Male Guinea Pigs Exposed to Cell Phone Microwave**
 KISMALI G., ÖZGÜR BÜYÜKATALAY E., Sayiner S., Alpaslan B., GÜLER ÖZTÜRK G., Seyhan N., SEL T.
 JOURNAL OF ANIMAL AND VETERINARY ADVANCES, vol.8, no.6, pp.1149-1151, 2009 (SCI-Expanded)
- XXV. **The Effects of Epigallocatechin Gallate and N-Acetylcysteine on Mobile Phone-Induced Oxidative Stress in Guinea Pigs**
 KISMALI G., ÖZGÜR BÜYÜKATALAY E., Sayiner S., Alpaslan B., GÜLER ÖZTÜRK G., Seyhan N., SEL T.
 JOURNAL OF ANIMAL AND VETERINARY ADVANCES, vol.8, no.5, pp.959-961, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. Synthesis, FT-IR, DFT and in silico Antibacterial Activity Studies of Silver Nitrate Complex of

Chlorzoxazone

BİLKAN M. T., ÇAKIL Z., ÖZGÜR BÜYÜKATALAY E.

Journal of Anatolian Physics and Astronomy, vol.3, no.2, pp.52-61, 2024 (Peer-Reviewed Journal)

II. Artificial Intelligence in Neurosurgery and the Future

TÖNGE Ç., EMRAHOĞLU M. E., OĞUZ E., İNAM O., ÖZGÜR BÜYÜKATALAY E.

Türk Nöroşirürji Dergisi, vol.32, no.2, pp.136-141, 2022 (Peer-Reviewed Journal)

III. Nöroşirürjide Yapay Zekâ ve Gelecek

TÖNGE Ç., EMRAHOĞLU M. E., OĞUZ E., İNAM O., ÖZGÜR BÜYÜKATALAY E.

Türk Nöroşirürji Dergisi, vol.32, no.2, pp.136-141, 2022 (Peer-Reviewed Journal)

IV. Yeni Nesil Cep Telefonu Frekansları ve Biyolojik Etkileri

ÖZGÜR BÜYÜKATALAY E., KÜÇÜKBAĞRIÇIK Y.

Genel Tıp Dergisi, vol.31, no.3, pp.309-312, 2021 (Peer-Reviewed Journal)

V. The impact of 3G mobile phone base station radiation on 14-3-3 family proteins in hepatocellular carcinoma cell line

MERAL Ö., PEKCAN M., ÖZGÜR BÜYÜKATALAY E., KISMALI G., DEMİRKIRAN D., GÜLER ÖZTÜRK G., SEYHAN H. N.

Turkish Journal of Clinics and Laboratory, vol.9, no.2, pp.87-91, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

I. Non – Thermal Effects and Mechanisms of Interaction Between Electromagnetic Fields and Living Matter, An ICEMS Monograph, National Institute for the Study and Control of Cancer and Environmental Diseases

SEYHAN H. N., GÜLER ÖZTÜRK G., KURSUN A. G., SİRAV B., ÖZGÜR BÜYÜKATALAY E., TÜYSÜZ M. Z.

in: Non Thermal Effects and Mechanisms of Interaction Between Electromagnetic Fields and Living Matter An ICEMS Monograph National Institute for the Study and Control of Cancer and Environmental Diseases, L. Giuliani and M. Soffritti, Editor, Mattioli1885 spa, Fidenza, pp.319-322, 2010

Refereed Congress / Symposium Publications in Proceedings

I. The Effects of Exosome-Encapsulated RO5963 Inhibitor on Human Chronic Myeloid Leukemia Cell Line

Kurt B., Kayhan H., Taşpınar Şimşek E., Özgür Büyükatalay E.

Extracellular Vesicles Conferences, Ankara, Turkey, 20 September 2024, vol.89, pp.32

II. Evaluation of The Effects of Radiofrequency Radiation on Apoptosis and Cell Proliferation in Chronic Lymphocytic Leukemia Cell Line

Kurt B., KAYHAN H., ÖZGÜR BÜYÜKATALAY E.

VI. International Biophysics Congress, Kayseri, Turkey, 4 - 07 September 2024

III. Effects of Radiofrequency Radiation and Magnetic Nanoparticles on Proliferation and Apoptosis of the Human Chronic Lymphocytic Leukemia Cell Line.

GÖKÇEN S., KAYHAN H., Taşpınar E., ÖZGÜR BÜYÜKATALAY E., YAĞCI A. M.

The 4th Immuno-Oncology World Congress, Frankfurt, Germany, 04 December 2023, pp.20

IV. Effects Of Radiofrequency Radiation And Magnetic Nanoparticles On Proliferation And Apoptosis Of Human Chronic Lymphocytic Leukemia Cell Line

Gökçen S., Kayhan H., Taspınar E., Özgür Büyükatalay E., Yağcı A. M.

The 4th Immuno-Oncology World Congress, Frankfurt, Germany, 4 - 05 December 2023, pp.20

V. HYPERTHERMIC EFFECTS ON HEALTHY FIBROBLAST AND LEUKEMIA CELLS

Kayhan H., Gökçen S., Şimşek Taşpınar E., Özgür Büyükatalay E.

4th International 33rd National Biophysics Congress 2022, Adıyaman, Turkey, 31 August - 03 September 2022, pp.79

- VI. **Mor Ötesi Işımanın Covid-19 Virüs İnaktivasyonu Üzerine Etkileri** Gözde NARİN, Elçin ÖZGÜR BÜYÜKATALAY, Yasemin SALGIRLI DEMİRBAŞ, Görkem KISMALI, Aykut ÖZKUL
Narin G., Özgür Büyükatalay E., Salgırlı Demirbaş Y., Kısmalı G., Özkul A.
32. Ulusal Biyofizik Kongresi, 17 - 19 November 2021, pp.61
- VII. **Wilson Merkezi Terminal Potansiyelinin Ekstremit ve Prekordiya Derivasyonlara Etkisinin Belirlenmesi Üzerine Görüntü İşlemeye Dayalı Algoritmik Bir Modelleme Önerisi**
Gürsu B., Özgür Büyükatalay E.
32. Biyofizik Kongresi, 17 - 19 November 2021, pp.64-65
- VIII. **"Finite Difference Time Domain (Ftdt) Application for Tissue- Thermal Analysis Based on Pennes' Bioheat Equation in Electromagnetic Energy Exposure**
Gürsu B., Özgür Büyükatalay E.
Hamidiye International Student Congress 2021 (HISCON 2021), 23 - 26 July 2021, pp.105
- IX. **The role of NF-kB inflammatory response of RFR-exposed colon cancer cell lines.**
Şentürk F., Özgür Büyükatalay E., Kısmalı G., Sel T., Güler Öztürk G.
International 30th Annual Biophysics Congress, Muğla, Turkey, 10 - 13 October 2018
- X. **The role of NF-kB and p-SAPK/JNK inflammatory responses of RFR- exposed colon cancer cells.**
ŞENTÜRK F., ÖZGÜR BÜYÜKATALAY E., KISMALI G., SEL T., GÜLER ÖZTÜRK G.
BioEM2018, 24 - 29 June 2018
- XI. **Radiofrequency radiation (RFR) induces Bad, p-Bad activation leading to cell apoptosis on DLD1 human colon carcinoma cell lines.**
ÖZGÜR BÜYÜKATALAY E., ŞENTÜRK F., KISMALI G., SEL T., GÜLER ÖZTÜRK G.
BioEM2018, 24 - 29 June 2018
- XII. **THE EFFECT OF SHORT TERM AND LONG TERM EXPOSURES TO 3G-MOBILE PHONE RADIATION ON DETOXIFICATION ORGANS OF WISTAR RATS**
TOMRUK A., TURAL R., ÖZGÜR BÜYÜKATALAY E., SEPİCİ DİNÇEL A., GÜLER ÖZTÜRK G.
ULUSLARARASI BİYOKİMYA KONGRESİ 2017, 19 - 23 September 2017
- XIII. **THE EFFECTS OF SHORT TERM AND LONG TERM EXPOSURES TO 3G-MOBILE PHONE RADIATION ON DETOXIFICATION ORGANS OF WISTAR RATS**
TOMRUK A., TURAL R., ÖZGÜR BÜYÜKATALAY E., SEPİCİ DİNÇEL A., GÜLER ÖZTÜRK G.
Uluslararası Biyokimya Kongresi, Turkey, 19 - 23 September 2017, pp.36
- XIV. **Kolorektal Kanser Hücrelerinde Radyofrekans Alanların Tümör Baskılayıcı Gen Proteinlerine Etkisi**
ÖZGÜR BÜYÜKATALAY E., KISMALI G., SEL T., GÜLER ÖZTÜRK G.
28-29. Ulusal Biyofizik Kongresi (Uluslararası Katılımlı), İstanbul, Turkey, 6 - 09 September 2017, pp.42
- XV. **The effects of 2100 MHz UMTS modulated mobile phone radiation on estrogen metabolism in MCF 7 and HGF 1 cells in vitro**
ÖZGÜR BÜYÜKATALAY E., ATEŞ K., OĞUR R., GÜLER ÖZTÜRK G., SEYHAN H. N.
BIOEM 2016, 5 - 10 June 2016, pp.97
- XVI. **Farklı Elektromanyetik Alanlara Maruz Bırakılan Allium sativum L. Bitkisinde Meydana Gelen Bazı Biyokimyasal ve Genetik Değişimlerin İncelenmesi**
ÇETE S., ÖZGÜR BÜYÜKATALAY E., demirtaş g.
7. Ulusal Kimya Öğrenci Kongresi, 17 May 2016
- XVII. **Farklı Elektromanyetik Alanlara Maruz Bırakılan Allium cepa L. Bitkisinde Meydana Gelen Bazı Biyokimyasal ve Genetik Değişimlerin İncelenmesi**
ÇETE S., ÖZGÜR BÜYÜKATALAY E., demirtaş g.
7. Ulusal Kimya Öğrenci Kongresi, 17 May 2016
- XVIII. **Uzun dönem cep telefonu maruziyetinin ratlarda beyin dokusu DNA hasarı üzerine etkileri**
ÖZGÜR BÜYÜKATALAY E., ŞAHİN D., GÜLER ÖZTÜRK G., TOMRUK A., ÜNLÜ İ., SEPİCİ DİNÇEL A., SEYHAN H. N.
27. Ulusal Biyokimya Kongresi, 3 - 06 November 2015, vol.40
- XIX. **Uzun Dönem Cep Telefonu Maruziyetinin Ratlarda Beyin Dokusu DNA Hasarı Üzerine Etkileri**
ÖZGÜR BÜYÜKATALAY E., ŞAHİN D., GÜLER ÖZTÜRK G., TOMRUK A., ÜNLÜ İ., SEPİCİ DİNÇEL A., SEYHAN H. N.
XXVII. Ulusal Biyokimya Kongresi, Antalya, Turkey, 3 - 06 November 2015, pp.40

- XX. **Radio Frekans Alanların Hamileler Yeni Doğanlar ve Çocuklar Üzerinde Oluşturabileceği Sağlık Etkileri ve Alınması Gereken Önlemler**
GÜLER ÖZTÜRK G., ÖZGÜR BÜYÜKATALAY E.
Elektromanyetik Alanlar ve Etkileri, EMANET 2015, Mersin, Turkey, 13 - 15 October 2015
- XXI. **Anne Karnında Radio Frekans Radyasyona Maruziyet ile Tetiklenen Nörodejeneratif Değişimler ve Apoptoz**
GÜLER ÖZTÜRK G., ÖZGÜR BÜYÜKATALAY E., TOMRUK A., KELEŞ H., VURAL ATALAY S., SEYHAN H. N.
27. Ulusal Biyofizik Kongresi, Turkey, 29 September - 03 October 2015, pp.138-139
- XXII. **Kanser Tanı Ve Tedavisinde Düşük Seviyeli Elektromanyetik Alanlar**
ÖZGÜR BÜYÜKATALAY E., GÜLER ÖZTÜRK G., KISMALI G., TOMRUK A.
27. Ulusal Biyofizik Kongresi, Mersin, Turkey, 29 September - 03 October 2015, pp.53-55
- XXIII. **3G Cep Telefonu 2100 MHz Radyofrekans Radyasyonun Sıçanların Parotis Bezine Etkisi**
AYDOĞAN F., ÜNLÜ İ., AYDIN E., YUMUŞAK N., DEVRİM E., SAMİM E., ÖZGÜR BÜYÜKATALAY E., UNSAL V., TOMRUK A., GÜLER ÖZTÜRK G., et al.
11. Uluslararası Kulak Burun Boğaz ve Baş Boyun Cerrahisi Kongresi, Ankara, Turkey, 17 - 19 April 2014, pp.30
- XXIV. **Sıçanlarda 2100 MHz frekanslı Radyofrekans Radyasyonun Nazal Mukoza ve Mukosiler Klirens Üzerine Etkileri**
AYDOĞAN F., AYDIN E., ÖZGÜR BÜYÜKATALAY E., ATILLA P., TÜZÜNER A., DEMİRCİ Ş., TOMRUK A., GÜLER ÖZTÜRK G., SEYHAN H. N., KORKMAZ M., et al.
11. Uluslararası Kulak Burun Boğaz ve Baş Boyun Cerrahisi Kongresi, Ankara, Turkey, 17 - 19 April 2014, pp.41
- XXV. **The Influence of 1800 MHz GSM like signals on blood chemistry and oxidative stress in non pregnant and pregnant rabbits**
SEYHAN H. N., KISMALI G., ÖZGÜR BÜYÜKATALAY E., GÜLER ÖZTÜRK G., AKÇAY A., SEL T.
BIOEM2013, Thessaloniki, Greece, 10 - 14 June 2013, pp.88
- XXVI. **Effects of ginkgo biloba EGb 761 treatment on 2.1 GHz microwave radiation induced mutagenicity in human lymphocytes**
EŞMEKAYA M. A., AYTEKİN E., ÖZGÜR BÜYÜKATALAY E., GÜLER ÖZTÜRK G., ERGÜN M. A., SEYHAN H. N.
4th International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels, 26 - 29 June 2012
- XXVII. **Modülasyonlu Radyofrekans Radyasyon uygulamasının İnsan Kan Lenfositleri üzerindeki Mutagenetik Etkileri**
EŞMEKAYA M. A., ERGÜN M. A., ÖZGÜR BÜYÜKATALAY E., GÜLER ÖZTÜRK G., ÖMEROĞLU S., SEYHAN H. N.
22. Ulusal Biyofizik Kongresi, Turkey, 28 September - 01 October 2010

Supported Projects

ÖZGÜR BÜYÜKATALAY E., Taşpınar Şimşek E., KAYHAN H., Project Supported by Higher Education Institutions, Mezenkimal kök hücre kaynaklı eksozom ile kapsüle edilmiş bleomisin ve RF hiperterminin meme kanseri tedavisi üzerine etkilerinin incelenmesi, 2024 - Continues

ÖZGÜR BÜYÜKATALAY E., KOÇ B., Project Supported by Higher Education Institutions, Meme Kanseri Radyofrekans Alanların ve Proteozom İnhibitörü MG132'nin Canlılık Üzerine In Vitro Etkileri, 2024 - Continues

Özgür Büyükatlay E., Kayhan H., Şentürk F., Koçum İ. C., Taşpınar Şimşek E., TÜBİTAK Project, Mezenkimal kök hücre eksozomları ile kapsüle edilmiş bleomisin ve RF hipertermi kombinasyonunun meme kanseri tedavisine sinerjik etkilerinin incelenmesi, 2024 - 2025

Özgür Büyükatlay E., Project Supported by Higher Education Institutions, Radyofrekans Hipertermide Meme Kanseri Metastazında Kisspeptinin Etkisi, 2024 - 2025

Kayhan H., Kismalı G., Özgür Büyükatlay E., Kurt B., Emergency R&D Project of Group A, Kronik Lenfositik Lösemide MDM2/MDMX ifadesinin RF alan maruziyeti altında ALRN-6924 hedef molekülüyle engellenmesi (Proje No:21259), 2023 - 2024

Derksen P., Özgür Büyükatlay E., TÜBİTAK - AB COST Project, COST Action CA19138 "Lobular Breast Cancer: Discovery

Science, Translational Goals, Clinical Impact" LOBSTERPOT, 2020 - 2024

Özgür Büyükkatalay E., Alkan H., TUBITAK Project, Meme Kanseri Hayvan Modellerinde Radyofrekans Alana Bağlı Olarak Bleomisin Tedavisinin Nöbetler Üstüne Etkisi, 2022 - 2023

Kurt B., Özgür Büyükkatalay E., Kısmalı G., Kayhan H., TUBITAK Project, Kronik Lenfositik Lösemide Mdm2/Mdmx İfadesinin RF Alan Maruziyeti Altında Ro-5963 Hedef Molekülüyle Engellenmesi, 2022 - 2023

Özgür Büyükkatalay E., Yeşilova B., TUBITAK Project, "Meme Kanseri Modelinde Bleomisin Tedavisinin Yan Etkisi Olan Diffüz Pulmoner Fibrozisin Radyofrekans Alan Adaptif Cevabına Göre Etkilenimi" Araştırma Yöneticisi, 2022 - 2023

Özgür Büyükkatalay E., Farrugia L., TÜBİTAK - AB COST Project, European network for advancing Electromagnetic hyperthermic medical technologies (MyWAVE), 2022 - 2023

Özgür Büyükkatalay E., Kısmalı G., Kayhan H., Sel T., TUBITAK Project, 121S758 numaralı "Meme Kanseri Modelindeki Bleomisin Uygulamasında Radyofrekans Alan İlişkili Adaptif Cevabın Etkisi" 1001 projesi, 2021 - 2023

Özgür Büyükkatalay E., Project Supported by Higher Education Institutions, Bleomisinin Genotoksik Hasarına Karşı İn Vivo Radyo Frekans Alan Uygulamanın Oluşturduğu Adaptif Cevabın DNA Onarım Mekanizmalarında Görev Alan Genlerde Araştırılması, 2019 - 2022

ÖZGÜR BÜYÜKATALAY E., Project Supported by Higher Education Institutions, Radyofrekans Alanlar Kolorektal Kanseri Hücrelerinde Apoptosizi ve İnflamasyonu Tetikler mi?, 2015 - 2019

Özgür Büyükkatalay E., Mir L. M., TÜBİTAK - AB COST Project, Cell Electroporation using EMF Signals, 2017 - 2017

GÜLER ÖZTÜRK G., ÖZGÜR BÜYÜKATALAY E., Project Supported by Higher Education Institutions, Radyo Frekans Alanın Biyolojik Etki Mekanizmaları: Hamile ve Yeni Doğan Tavşanların Dokularında Reaktif Oksijen Ürünleri ve Apoptosis, 2010 - 2012

Activities in Scientific Journals

Journal of Gazi University Health Sciences Institute, GUHES, Publication Committee Member, 2021 - Continues

Memberships / Tasks in Scientific Organizations

Türk Biyofizik Derneği, Board Member, 2018 - 2023, Turkey

Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gazi University, Turkey, November 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gazi University, Turkey, November 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gazi University, Turkey, November 2023

TUBITAK Project, 2237 - Program for Supporting Project Training Activities, Gazi University, Turkey, November 2023

TUBITAK Project, 2237 - Program for Supporting Project Training Activities, Gazi University, Turkey, November 2023

TUBITAK Project, 2237 - Program for Supporting Project Training Activities, Gazi University, Turkey, November 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gazi University, Turkey, June 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gazi University, Turkey, June 2023

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), TÜSEB, Turkey, October 2022

Project Supported by Higher Education Institutions, BAP Research Project, Erciyes University, Turkey, October 2022

Environmental Health, SCI Journal, May 2022

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), TÜSEB, Turkey, May 2022

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), TÜSEB, Turkey, May 2022

BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, April 2022

JOURNAL OF PEDIATRIC GENETICS, SCI Journal, February 2022

ENVIRONMENT INTERNATIONAL A JOURNAL OF ENVIRONMENTAL SCIENCE, RISK & HEALTH, SCI Journal, November 2021

ELECTROMAGNETIC BIOLOGY AND MEDICINE, SCI Journal, September 2021

Tasks In Event Organizations

Özgür Büyükkatalay E., 4.Uluslararası 33.Ulusal Biyofizik Kongresi, Scientific Congress, Adıyaman, Turkey, Eylül 2022

Sert C., Pelit A., Özgür Büyükkatalay E., Ünlü A., Kan B., Akdağ M. Z., 32. Ulusal Biyofizik Kongresi, Scientific Congress, Turkey, Kasım 2021

Metrics

Publication: 59

Citation (WoS): 323

Citation (Scopus): 434

H-Index (WoS): 11

H-Index (Scopus): 13

Awards

Gürsu B., Özgür Büyükkatalay E., FINITE DIFFERENCE TIME DOMAIN (FDTD) APPLICATION FOR TISSUETHERMAL ANALYSIS BASED ON PENNES' BIOHEAT EQUATION IN ELECTROMAGNETIC ENERGY EXPOSURE, International Faculty Of Medicine, July 2021

Non Academic Experience

Paris Sud Univesritesi Gustave Roassy Cancer Enstitusu