

Assoc. Prof. ESİN GÜLNAZ CANLI

Personal Information

Office Phone: [+90 0322 338 7334](tel:+9003223387334) Extension: 3521 / 162

Email: egcanli@cu.edu.tr

Web: <https://avesis.cu.edu.tr/egcanli>

Address:

International Researcher IDs

ORCID: 0000-0002-0132-3712

Publons / Web Of Science ResearcherID: O-5477-2019

ScopusID: 50123456789

Yoksis Researcher ID: 319951

Education Information

Post Doctorate, University of Aberdeen, Natural Sciences, Biology, England 2019 - 2020

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Biyoloji, Turkey 2016 - 2018

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Biyoloji, Turkey 2014 - 2015

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Biyoloji, Turkey 2007 - 2014

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Vocational Course, Yüksek Performanslı Sıvı Kromatografisi (HPLC) Eğitim Sertifikası, etc, 2017

Vocational Course, Gaz Kromatografi (GC) Eğitim Sertifikası, etc , 2017

Vocational Course, Taramalı Elektron Mikroskobu (SEM) Eğitim Sertifikası, Aksaray Üniversitesi Bilimsel ve Teknolojik Uygulama ve Araştırma Merkezi, 2016

Vocational Training, Deney Hayvanları Kullanım Sertifikası, Çukurova Üniversitesi, 2015

Vocational Training, Pedagojik Formasyon, Çukurova Üniversitesi, 2014

Dissertations

Doctorate, Alüminyum, bakır ve titanyum nanopartiküllerinin sıçan (*Rattus norvegicus* var. *Albinos*) antioksidan, ozmoregülasyon ve sinir sistemleri üzerine etkilerinin incelenmesi, Cukurova University, Fen-Edebiyat Fakültesi, 2018

Postgraduate, Memelilerde (*Rattus norvegicus* var. *albinos*) nanopartiküllerin (Al_2O_3 , CuO , TiO_2) metabolik etkilerinin incelenmesi, Cukurova University, Fen-Edebiyat Fakültesi, 2015

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, Cukurova University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2022 - Continues
Assistant Professor, Cukurova University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2022 - 2022
Assistant Professor, Nigde Omer Halisdemir University, Faculty Of Arts And Sciences, Department Of Biology, 2020 - 2022
Lecturer, Hakkari University, Faculty Of Education, Department Of Mathematics And Science Teaching, 2014 - 2015

Academic and Administrative Experience

Head of Department, Nigde Omer Halisdemir University, Faculty Of Arts And Sciences, Department Of Biology, 2020 - 2022

Courses

Botanik, Undergraduate, 2022 - 2023
Küresel Isınma ve Biyoçeşitlilik, Postgraduate, 2021 - 2022
Genel Biyoloji I (Zooloji), Undergraduate, 2021 - 2022
Moleküler Biyoloji, Undergraduate, 2020 - 2021
Yaşlanma Biyolojisi, Undergraduate, 2020 - 2021
Genetik, Undergraduate, 2021 - 2022
Undergraduate, 2021 - 2022
Biyokimya, Undergraduate, 2020 - 2021
Biyoteknoloji, Undergraduate, 2020 - 2021
Mesleki Yabancı Dil 1, Undergraduate, 2020 - 2021
Enzimoloji, Undergraduate, 2020 - 2021
Klinik Biyokimya, Undergraduate, 2020 - 2021
Moleküler Biyoloji, Undergraduate, 2014 - 2015
Genetik ve Biyoteknoloji, Undergraduate, 2014 - 2015
Çevre Bilimi, Undergraduate, 2014 - 2015
Biyolojide Özel Konular, Undergraduate, 2014 - 2015
İnsan Anatomisi ve Fizyolojisi, Undergraduate, 2014 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Salinity and/or nanoparticles (Al₂O₃, TiO₂) affect metal accumulation and ATPase activity in freshwater fish (*Oreochromis niloticus*)**
Pepe N., Canli E. G., Canlı M.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.94, pp.103931-103932, 2022 (SCI-Expanded)
- II. **Accumulation and Distribution of Nanoparticles (Al₂O₃, CuO, and TiO₂) in Tissues of Freshwater Mussel (*Uniotigridis*)**
Canli E. G., ÇELENK A., CANLI M.
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.108, no.4, pp.702-707, 2022 (SCI-Expanded)
- III. **The effects of titanium nanoparticles on enzymatic and non-enzymatic biomarkers in female Wistar rats**
Canli E. G., Gumus C., Canli M., İla H. B.
DRUG AND CHEMICAL TOXICOLOGY, vol.45, no.1, pp.417-425, 2022 (SCI-Expanded)

- IV. **Effects of in vivo exposures to nanoparticles (Al₂O₃, CuO, TiO₂) on the activities of ATPases in the gill and muscle of freshwater mussel (*Unio tigridis*)**
Canli E. G., CANLI M.
TURKISH JOURNAL OF ZOOLOGY, vol.46, no.4, pp.377-384, 2022 (SCI-Expanded)
- V. **Characterization of ATPases in the gill of freshwater mussel (*Unio tigridis*) and effects of ionic and nanoparticle forms of aluminium and copper**
Canli E. G., CANLI M.
COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY, vol.247, 2021 (SCI-Expanded)
- VI. **Individual and Combined Effects of Salinity and Nanoparticles (Al₂O₃, TiO₂) on the Activity of Antioxidant Enzymes in Freshwater Fish (*Oreochromis niloticus*)**
Canli E. G.
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.21, no.8, pp.415-424, 2021 (SCI-Expanded)
- VII. **Antioxidant system biomarkers of freshwater mussel (*Unio tigridis*) respond to nanoparticle (Al₂O₃, CuO, TiO₂) exposures**
Canli E. G., CANLI M.
BIOMARKERS, vol.26, no.5, pp.434-442, 2021 (SCI-Expanded)
- VIII. **Effects of aluminum, copper and titanium nanoparticles on the liver antioxidant enzymes of the Nile fish (*Oreochromis niloticus*)**
Canli E. G., CANLI M.
ENERGY REPORTS, vol.6, pp.62-67, 2020 (SCI-Expanded)
- IX. **Investigations of the nervous system biomarkers in the brain and muscle of freshwater fish (*Oreochromis niloticus*) following accumulation of nanoparticles in the tissues**
Canli E. G., CANLI M.
TURKISH JOURNAL OF ZOOLOGY, vol.44, no.2, pp.90-103, 2020 (SCI-Expanded)
- X. **Responses of biomarkers belonging to different metabolic systems of rats following oral administration of aluminium nanoparticle**
CANLI E. G., İLA H. B., CANLI M.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.69, pp.72-79, 2019 (SCI-Expanded)
- XI. **Response of the antioxidant enzymes of rats following oral administration of metal-oxide nanoparticles (Al₂O₃, CuO, TiO₂)**
Canli E. G., İLA H. B., CANLI M.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.1, pp.938-945, 2019 (SCI-Expanded)
- XII. **Serum biomarker levels alter following nanoparticle (Al₂O₃, CuO, TiO₂) exposures in freshwater fish (*Oreochromis niloticus*)**
Canli E. G., Dogan A., CANLI M.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.62, pp.181-187, 2018 (SCI-Expanded)
- XIII. **Response of the antioxidant enzymes of the erythrocyte and alterations in the serum biomarkers in rats following oral administration of nanoparticles**
Canli E. G., Atli G., CANLI M.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.50, pp.145-150, 2017 (SCI-Expanded)
- XIV. **Effects of aluminum, copper, and titanium nanoparticles on some blood parameters in Wistar rats**
CANLI E. G., CANLI M.
TURKISH JOURNAL OF ZOOLOGY, vol.41, no.2, pp.259-266, 2017 (SCI-Expanded)
- XV. **Responses of the Antioxidant and Osmoregulation Systems of Fish Erythrocyte Following Copper Exposures in Differing Calcium Levels**
Canli E. G., ATLI G., CANLI M.
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.97, no.5, pp.601-608, 2016 (SCI-Expanded)
- XVI. **Cadmium and Lead Alter the Antioxidant and Osmoregulation Systems in the Erythrocyte of Fish (*Oreochromis niloticus*)**

- Atli G., CANLI E. G., EROĞLU A., DOĞAN Z., CANLI M.
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.16, no.2, pp.361-369, 2016 (SCI-Expanded)
- XVII. **Characterization of antioxidant system parameters in four freshwater fish species**
ATLI G., CANLI E. G., EROĞLU A., CANLI M.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.126, pp.30-37, 2016 (SCI-Expanded)
- XVIII. **Alterations in the serum biomarkers belonging to different metabolic systems of fish (*Oreochromis niloticus*) after Cd and Pb exposures**
ATLI G., ARIYUREK S. Y., KANAK E. G., CANLI M.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.40, no.2, pp.508-515, 2015 (SCI-Expanded)
- XIX. **Effects of heavy metals (Cd, Cu, Cr, Pb, Zn) on fish glutathione metabolism**
EROĞLU A., DOĞAN Z., KANAK E. G., ATLI G., CANLI M.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.22, no.5, pp.3229-3237, 2015 (SCI-Expanded)
- XX. **Low water conductivity increases the effects of copper on the serum parameters in fish (*Oreochromis niloticus*)**
CANLI E. G., CANLI M.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.39, no.2, pp.606-613, 2015 (SCI-Expanded)
- XXI. **Effects of fish size on the response of antioxidant systems of *Oreochromis niloticus* following metal exposures**
Kanak E. G., Dogan Z., EROĞLU A., ATLI G., CANLI M.
FISH PHYSIOLOGY AND BIOCHEMISTRY, vol.40, no.4, pp.1083-1091, 2014 (SCI-Expanded)
- XXII. **Response of Antioxidant System of Tilapia (*Oreochromis niloticus*) Following Exposure to Chromium and Copper in Differing Hardness**
Dogan Z., EROĞLU A., Kanak E. G., Atli G., CANLI M.
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.92, no.6, pp.680-686, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigations on the Responses of Antioxidant Enzymes in Freshwater Mussels (*Unio tigridis*) Exposed to Copper in Differing Durations**
Canli E. G.
KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.25, no.1, pp.31-41, 2022 (ESCI)
- II. **Investigations on the energy reserves of rat liver following oral exposures to nanoparticles**
Bayköse A., Canlı E. G., Canlı M.
Cukurova University Journal of Natural and Applied Sciences, vol.1, no.2, pp.8-14, 2022 (Peer-Reviewed Journal)
- III. **Alterations on the activities of ion ATPases in the gill and muscle of freshwater mussel (*Unio tigridis*) exposed to copper**
Canlı E. G.
Commagene Journal of Biology, vol.5, no.2, pp.150-155, 2021 (Peer-Reviewed Journal)
- IV. **Nanoparticles; Emerging Pollutants for the Environment**
Canlı E. G.
EC Pharmacology and Toxicology, vol.9, no.5, pp.33-34, 2021 (Peer-Reviewed Journal)
- V. **Investigation of Some Metabolic Responses in Mammals (*Rattus norvegicus* var. *albinos*) Exposed to Copper Oxide Nanoparticles**
Canli E. G.
KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.23, no.2, pp.304-315, 2020 (ESCI)
- VI. **Nanoparticles (Al₂O₃, CuO, TiO₂) decrease ATPase activity in the osmoregulatory organs of freshwater fish (*Oreochromis niloticus*) histologic and cytological investigation of tissues**
Canlı E. G., Canlı M.

Refereed Congress / Symposium Publications in Proceedings

- I. **Optimum working conditions of ATPases in the gill of freshwater mussel (*Unio tigridis*) and in vitro effects of metals and nanoparticles**
Canlı E. G.
5TH INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY (EurasianBioChem 2022), 23 - 25 November 2022, pp.161-162
- II. **Nanoparticle exposures alter the levels of lipids, carbohydrates and the response of biomarkers in tissues of freshwater mussels**
Bayköse A., Canlı E. G.
5TH INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY (EURASIANSCIENTECH 2022), 23 - 25 November 2022, pp.201-202
- III. **Nanoparticle (Al₂O₃, CuO and TiO₂) accumulation and alterations in the energy reserves in wistar rats**
Bayköse A., Canlı E. G.
5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022), 23 - 25 November 2022, pp.202-203
- IV. **Effects of in vivo exposures to nanoparticles (Al₂O₃, CuO, TiO₂) on the activities of ATPases in the gill and muscle of freshwater mussel (*Unio tigridis*)**
Canlı E. G.
5TH INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY (EURASIANSCIENTECH 2022), Ankara, Turkey, 23 - 25 November 2022, pp.160-161
- V. **Molecular Basis of Senescence**
Canlı E. G.
TURK-COSE 2022: IV. International Turkic World Congress on Science and Engineering, 23 - 24 June 2022, pp.15-17
- VI. **Nanoparticles; Emerging Pollutants for the Environment**
Canlı E. G.
4th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2021), 24 - 26 November 2021, pp.1-1224
- VII. **The effects of cadmium or copper on gill ATPases in freshwater fish (*Oreochromis niloticus*); influence of salinity and hardness**
Canlı E. G.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), 25 - 27 October 2021, pp.1-764
- VIII. **Effects of nanoparticles (Al₂O₃, CuO, TiO₂) on the antioxidant system biomarkers of freshwater mussel (*Unio tigridis*)**
Canlı E. G.
7th International Conference on Environmental Science and Technology, Sarajevo, Bosnia And Herzegovina, 23 - 25 June 2021, pp.1-18
- IX. **Uptake and depuration of nanoparticles (Al₂O₃, CuO, TiO₂) by freshwater fish (*Oreochromis niloticus*) and alterations in gill ATPase activity**
Canlı E. G.
5th International Mediterranean Science and Engineering Congress, 21 - 23 October 2020, pp.1-764
- X. **The enzymatic responses to nanoparticles (Al₂O₃, CuO, TiO₂) in female Wistar rats**
Canlı E. G.
5th International Mediterranean Science and Engineering Congress, 21 - 23 October 2020, pp.1-764
- XI. **Effects of aluminium, copper and titanium nanoparticles on the liver antioxidant enzymes of the Nile fish (*Oreochromis niloticus*)**

Canlı E. G.

The 7th International Conference on Energy and Environment research, Porto, Portugal, 14 - 17 September 2020, pp.1-578

- XII. **Kidney ATPase activities alter following nanoparticle exposures of fish (*Oreochromis niloticus*)**
Canlı E. G., Canlı M.
4th International Mediterranean Science and Engineering Congress, Antalya, Turkey, 24 - 27 April 2019, pp.3-588
- XIII. **Changes in the levels of serum biomarkers in fish (*Oreochromis niloticus*) following exposure to nanoparticles**
Canlı E. G., Canlı M.
4th International Mediterranean Science and Engineering Congress, Antalya, Turkey, 23 - 27 April 2019, pp.3-588
- XIV. **Effects of nanoparticles (Al₂O₃, CuO, TiO₂) on the antioxidant system of rats**
Canlı E. G., İla H. B.
3rd International Mediterranean Science and Engineering Congress, Adana, Turkey, 24 - 26 October 2018, pp.45-46
- XV. **Effects of copper oxide nanoparticles on some blood parameters in female Wistar rats**
Canlı E. G., Canlı M.
16th International Conference on Chemistry and the Environment, Oslo, Norway, 18 - 22 June 2017, pp.34-35
- XVI. **Effects of titanium nanoparticles on some blood parameters in female Wistar rats**
Canlı E. G., Canlı M., Atlı G.
7th Euro-Global Summit on Toxicology and Applied Pharmacology, Rome, Italy, 24 - 26 October 2016, pp.45-46
- XVII. **Effects of aluminium, copper and titanium nanoparticles on antioxidant system parameters of the erythrocyte in female Wistar rats**
Canlı E. G., Canlı M., Atlı Demiray G.
17th International Conference on ISANH Antioxidants, Paris, France, 13 - 15 June 2016, pp.167-168
- XVIII. **Farklı Ca²⁺ Düzeylerinde Bakır Etkisindeki Nile Çuprasının (*Oreochromis niloticus*) Kan Antioksidan Enzim (SOD, CAT, GPX) Cevabı**
Atlı G., Doğan Z., Canlı E. G., Canlı M.
Ulusal Zooloji Kongresi, Afyonkarahisar, Turkey, 28 - 31 August 2015, pp.68-69
- XIX. **Effects of Copper on the Serum Parameters of Freshwater Fish (*Oreochromis niloticus*) in Differing Calcium Levels**
Canlı E. G., Canlı M.
SETAC Europe 25th Annual Meeting, Barcelona, Spain, 3 - 07 May 2015, pp.344-345
- XX. **Characterization of Superoxide Dismutase (SOD) and Catalase (CAT) From the Liver of Freshwater Fishes**
Atlı G., Doğan Z., Canlı E. G., Eroğlu A., Canlı M.
FABA 2014 (International Symposium on Fisheries and Aquatic Sciences), Trabzon, Turkey, 24 - 27 September 2014, pp.687-688
- XXI. **Tatlı Su Balıklarının (*Oreochromis niloticus*, *Onchorhynchus mykiss*, *Cyprinus carpio* ve *Clarias gariepinus*) Karaciğer Glutasyon Metabolizmalarının Karakterizasyonu**
Atlı G., Doğan Z., Canlı E. G., Eroğlu A., Canlı M.
22. Ulusal Biyoloji Kongresi, Eskişehir, Turkey, 23 - 27 June 2014, pp.252-253
- XXII. **Effects of Water Hardness on the Antioxidant System Response of the Nile Fish (*Oreochromis niloticus*) Following Metal (Cr, Cu)**
Doğan Z., Canlı E. G., Eroğlu A., Atlı G., Canlı M.
International conference on environmental science and technology (ICOEST'14), Antalya, Turkey, 14 - 17 May 2014, pp.379-380
- XXIII. **Balık (*Oreochromis niloticus*) antioksidan sisteminin bakır ve krom etkisine verdiği tepkilerde balık büyüklüğünün önemi**
Canlı E. G., Atlı G., Doğan Z., Eroğlu A., Canlı M.
Ekoloji Sempozyumu, Gazimagusa, Cyprus (Kktc), 1 - 04 May 2014, pp.71-72
- XXIV. **Changes in the Endocrine System and Some Blood Parameters in Freshwater Fish (*Oreochromis***

niloticus) Exposed to Cd and Pb

Yüzbaşıoğlu Ariyürek S., Atlı G., Kesmez C. Ö., Doğan Z., Canlı E. G., Eroğlu A., Canlı M.

International conference on environmental science and technology (ICOEST'13), Nevşehir, Turkey, 18 - 21 June 2013, pp.134-135

Supported Projects

Canlı E. G., Canlı M., Project Supported by Higher Education Institutions, 2021 - 2023

Canlı E. G., Canlı M., Project Supported by Higher Education Institutions, Investigations on the response of antioxidant enzymes in fish (*Oreochromis niloticus*) exposed to nanoparticles at increased salinity of freshwaters, 2021 - 2022

Canlı E. G., Canlı M., TUBITAK Project, 2020 - 2021

Canlı E. G., Atlı G., Project Supported by Higher Education Institutions, 2016 - 2017

Canlı M., TUBITAK Project, Metal Nanopartiküllerinin (Al₂O₃, CuO, TiO₂) Balıklar (*Oreochromis niloticus*) Tarafından Alınımı, Atılımı ve Metabolik Etkilerinin İncelenmesi, 2015 - 2016

Canlı E. G., Canlı M., Project Supported by Higher Education Institutions, Memelilerde (*Rattus norvegicus* var. *albinos*) nanopartiküllerin (Al₂O₃, CuO, TiO₂) metabolik etkilerinin incelenmesi, 2015 - 2015

Canlı E. G., Canlı M., Project Supported by Higher Education Institutions, 2013 - 2015

Activities in Scientific Journals

EC Pharmacology and Toxicology, Committee Member, 2019 - Continues

Tasks In Event Organizations

Canlı E. G., Turaç E., Demir H., Severcan M. H., Doğan Sağlamtımur N., Timurkutluk B., Zan R., TURK-COSE 2021: III. International Turkic World Congress on Science and Engineering, Scientific Congress, Turkey, Haziran 2021

Metrics

Publication: 52

Citation (WoS): 373

Citation (Scopus): 415

H-Index (WoS): 10

H-Index (Scopus): 11

Congress and Symposium Activities

TURK-COSE 2022: IV. International Turkic World Congress on Science and Engineering, Session Moderator, Niğde, Turkey, 2022

7th International Conference on Enviromental Science and Technology, Session Moderator, Sarajevo, Bosnia And Herzegovina, 2021

TURK-COSE 2021: III. International Turkic World Congress on Science and Engineering, Session Moderator, Niğde, Turkey, 2021

TURK-COSE 2020: II. International Turkic World Congress on Science and Engineering, Session Moderator, Niğde, Turkey, 2020

Awards

Canlı E. G., Fen ve Matematik Temel Alanı Makale Performans Ödülü, Niğde Ömer Halisdemir Üniversitesi, July 2021

Canlı E. G., Canlı M., UBYT Yayın Teşvik Ödülü, Tübitak, April 2021

Canlı E. G., Canlı M., UBYT Yayın Teşvik Ödülü, Tübitak, May 2020

Canlı E. G., Canlı M., UBYT Yayın Teşvik Ödülü, Tübitak, July 2019

Canlı E. G., UBYT Yayın Teşvik Ödülü, Tübitak, April 2019

Canlı E. G., Canlı M., UBYT Yayın Teşvik Ödülü, Tübitak, March 2018

Canlı E. G., Canlı M., UBYT Yayın Teşvik Ödülü, Tübitak, January 2018

Canlı E. G., Canlı M., UBYT Yayın Teşvik Ödülü, Tübitak, June 2015

Canlı E. G., TÜBİTAK 2210-C Yurtiçi Öncelikli Alanlar Yüksek Lisans Burs Programı, Tübitak 2210-C Yurtiçi Öncelikli Alanlar , February 2015