

## Asst. Prof. MUSTAFA TUNÇSOY

### Personal Information

**Office Phone:** [+90 322 338 6084](tel:+903223386084) Extension: 3097-122

**Email:** [mtuncsoy@cu.edu.tr](mailto:mtuncsoy@cu.edu.tr)

**Web:** <https://avesis.cu.edu.tr/mtuncsoy>

**Address:** Çukurova Üniversitesi, Abdi Sütcü Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikleri Bölümü, Kat: 2  
Oda: B-4 01330 Sarıçam/Adana/Türkiye

### International Researcher IDs

ORCID: 0000-0001-7306-0539

Publons / Web Of Science ResearcherID: E-5101-2018

ScopusID: 56165661300

Yoksis Researcher ID: 193776

### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Biyoloji, Turkey 2012 - 2018

Doctorate, Algarve University, Faculty of Science and Technology, Centre of Marine and Environmental Research, Portugal 2013 - 2013

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Biyoloji, Turkey 2008 - 2011

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Biyoloji, Turkey 2002 - 2007

### Certificates, Courses and Trainings

Health&Medicine, Deney Hayvanları Kullanım Setifikası, Çukurova Üniversitesi, 2013

Health&Medicine, Food Spoilage and Toxicology, Algarve University, 2013

Health&Medicine, Food Microbiology, Algarve University, 2013

Health&Medicine, Biochrom Spektrofotometrik Yöntemlerde Uygulamalar, İncekaralar, 2012

### Dissertations

Doctorate, Bakır oksit nanopartikülleri ve bakır sülfat etkisinde *Oreochromis niloticus*'xxun dokularında süreye bağlı bakır birikiminin bazı serum parametreleri ile serum ve karaciğer enzim aktiviteleri üzerine etkileri, Cukurova University, Fen Bilimleri Enstitüsü, Biyoloji, 2018

Postgraduate, Bakır, çinko ve kadmiyumun tek başlarına ve karışımlarının etkisinde *Oreochromis niloticus*'xxun karaciğer, solungaç ve kas dokularındaki metal birikimi, Cukurova University, Fen Bilimleri Enstitüsü, 2011

### Research Areas

Hydrobiology, Ecology, Ecotoxicology, Animal Physiology, Molecular Biology and Genetics, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Biyoloji, 2023 - Continues

Assistant Professor, Cukurova University, Abdi Sütcü Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, 2022 - Continues

## Courses

### Undergraduate

Limnology, Undergraduate, 2024 - 2025

Nanotoxicology, Undergraduate, 2024 - 2025

Araştırma Projesi, Undergraduate, 2023 - 2024

### Associate Degree

Fizyoloji, Associate Degree, 2022 - 2023

Toksikoloji, Associate Degree, 2022 - 2023

Fizyoloji, Associate Degree, 2022 - 2023

Fizyoloji, Associate Degree, 2022 - 2023

Toksikoloji, Associate Degree, 2022 - 2023

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

- I. **Green synthesis of silver nanoparticles using carob leaf extract: Characterization and analysis of toxic effects in model organism *Galleria mellonella* L. (The greater wax moth)**  
Andırım A., Yaycı N. D., Idikut M., Kara A., TUNÇSOY M., Tuncsoy B., ÖZALP P.  
Environmental Science and Pollution Research, 2024 (SCI-Expanded)
- II. **Particle Size Effect of Micro and Nano Aluminium Oxides on Antioxidant Defence System of Model Organism *Galleria mellonella***  
Tunçsoy B., Tunçsoy M.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.110, no.4, pp.1-7, 2023 (SCI-Expanded)
- III. **Impacts of Titanium Dioxide Nanoparticles on Serum Parameters and Enzyme Activities of *Clarias gariepinus***  
Tuncsoy M.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.106, no.4, pp.629-636, 2021 (SCI-Expanded)
- IV. **Effects of Copper Oxide Nanoparticles on Tissue Accumulation and Antioxidant Enzymes of *Galleria mellonella* L.**  
Tuncsoy B. S., Tuncsoy M., Gomes T., Sousa V., Teixeira M. R., Bebianno M. J., ÖZALP P.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.102, no.3, pp.341-346, 2019 (SCI-Expanded)
- V. **Copper Accumulation in Tissues of *Oreochromis niloticus* Exposed to Copper Oxide Nanoparticles and Copper Sulphate with Their Effect on Antioxidant Enzyme Activities in Liver**  
Tuncsoy M., ERDEM C.  
WATER AIR AND SOIL POLLUTION, vol.229, no.8, 2018 (SCI-Expanded)
- VI. **Effects of Copper Oxide Nanoparticles on Antioxidant Enzyme Activities and on Tissue Accumulation of *Oreochromis niloticus***  
Tuncsoy M., DURAN S., Ay O., Cıcık B., ERDEM C.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.99, no.3, pp.360-364, 2017 (SCI-Expanded)
- VII. **Accumulation of Copper in Gill, Liver, Spleen, Kidney and Muscle Tissues of *Clarias gariepinus* Exposed to the Metal Singly and in Mixture with Chitosan**  
Tuncsoy M., DURAN S., Ay O., Cıcık B., ERDEM C.

BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.97, no.4, pp.486-489, 2016 (SCI-Expanded)

VIII. **SHORT TERM EFFECTS OF ZINC ON SOME SERA BIOCHEMICAL PARAMETERS AND ON TISSUE ACCUMULATION OF *Clarias gariepinus***

Tuncsoy M., DURAN S., YESILBUDAK B., Ay O., Cicik B., ERDEM C.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.25, no.2, pp.658-664, 2016 (SCI-Expanded)

IX. **METAL ACCUMULATION IN VARIOUS TISSUES OF *Clarias gariepinus* EXPOSED TO COPPER, ZINC, CADMIUM AND LEAD SINGLY AND IN MIXTURE**

DURAN S., Tuncsoy M., YESILBUDAK B., Ay O., Cicik B., ERDEM C.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.24, no.12C, pp.4738-4742, 2015 (SCI-Expanded)

X. **EFFECTS OF COPPER AND LEAD APPLIED SINGLY AND IN MIXTURE WITH CHITOSAN ON SOME SERA PARAMETERS OF *Clarias gariepinus***

Tuncsoy M., DURAN S., Ay O., Cicik B., ERDEM C.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.24, no.9A, pp.3029-3034, 2015 (SCI-Expanded)

XI. **ACCUMULATION OF COPPER, ZINC AND CADMIUM IN LIVER, GILL AND MUSCLE TISSUES OF *OREOCHROMIS NILOTICUS* EXPOSED TO THESE METALS SEPARATELY AND IN MIXTURE**

Tuncsoy M., ERDEM C.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.23, no.5, pp.1143-1149, 2014 (SCI-Expanded)

## Articles Published in Other Journals

I. **The Role of Cyclodextrin Nanoparticles in the Removal of Environmental Pollutants**

Tunçsoy M.

EC Pharmacology And Toxicology, vol.12, no.11, pp.1-2, 2024 (Peer-Reviewed Journal)

II. **Comparison to Toxic Effects of Copper Oxide Nanoparticles and Copper Sulphate on Some Serum Parameters and Enzyme Activities of *Oreochromis niloticus***

TUNÇSOY M., Erdem C.

JOURNAL OF ANATOLIAN ENVIRONMENTAL AND ANIMAL SCIENCES, vol.6, no.4, pp.514-521, 2021 (Peer-Reviewed Journal)

III. **Acute toxicity of titanium dioxide nanoparticles on some serum parameters and enzyme activities of *Cyprinus carpio***

Tunçsoy M., Duran S.

Journal of Anatolian Environmental and Animal Sciences, vol.5, no.4, pp.704-710, 2020 (Peer-Reviewed Journal)

IV. **Influence of Lead and Applied Singly and in Mixture with Chitosan on Tissue Accumulation of *Clarias gariepinus***

Tunçsoy M., Duran S.

Journal of Anatolian Environmental and Animal Sciences, vol.5, no.2, pp.173-177, 2020 (Peer-Reviewed Journal)

V. **Influence of copper oxide nanoparticles on some serum parameters of *Clarias gariepinus***

Tunçsoy M.

Journal of Anatolian Environmental and Animal Sciences, vol.4, no.3, pp.387-392, 2019 (Peer-Reviewed Journal)

## Books

I. **Impacts of Metal Nanoparticles on Fish**

Tunçsoy M.

in: Handbook of Green and Sustainable Nanotechnology, Assoc. Prof. Uma Shanker, Dr. Chaudhery Mustansar Hussain, Assist. Prof. Manviri Rani, Editor, Springer Nature, Zürich, pp.1-18, 2022

II. **Toxicological Effects of Nanomaterials in Terrestrial and Aquatic Insects**

Tunçsoy B., Tunçsoy M.

in: Handbook of Green and Sustainable Nanotechnology, Assoc. Prof. Uma Shanker, Dr. Chaudhery Mustansar Hussain, Assist. Prof. Manviri Rani, Editor, Springer Nature, Zürich, pp.1-15, 2022

III. **BAKIR OKSİT NANOPARTİKÜLLERİNİN *Clarias gariepinus*'DA METAL BİRİKİMİ VE KARACİĞER ANTİOKSİDAN ENZİM AKTİVİTESİ ÜZERİNE ETKİLERİ**

TUNÇSOY M., DURAN S.

in: FEN BİLİMLERİNDE YENİ YAKLASIMLAR, Dr. Didem CORAL ŞAHİN, Editor, Iksad Publishing House, pp.163-183, 2021

## **Papers Published in Refereed Scientific Meetings**

- I. **Kısa süreli titanyum dioksit nanopartiküllerinin *Cyprinus carpio*'da serum elektrolit düzeyleri üzerine etkileri**  
TUNÇSOY M., Duran S.  
2nd International Eurasian Conference on Science, Engineering and Technology, Gaziantep, Turkey, 07 October 2020
- II. **Bakır oksit nanopartiküllerinin *Clarias gariepinus*'da serum elektrolit düzeyleri üzerine etkisi**  
TUNÇSOY M.  
Çukurova 3. Uluslararası Bilimsel Araştırmalar Kongresi, Adana, Turkey, 3 - 06 October 2019
- III. **Bakır oksit nanopartiküllerinin *Clarias gariepinus*'da serum enzim aktiviteleri üzerine etkisi**  
TUNÇSOY M.  
2nd International Eurasian on Biological and Chemical Sciences, Ankara, Turkey, 28 - 29 June 2019
- IV. **Effects of copper oxide nanoparticles on antioxidant enzyme activities in liver tissue of *Clarias gariepinus***  
Tuncsoy M., DURAN S., Ay O., Cicik B., ERDEM C.  
53rd Congress of the European-Societies-of-Toxicology (EUROTOX), Bratislava, Slovakia, 10 - 13 September 2017, vol.280
- V. **Accumulation of copper oxide nanoparticles in gill, liver and muscle tissues of *Clarias gariepinus***  
DURAN S., Tuncsoy M., Ay O., Cicik B., ERDEM C.  
53rd Congress of the European-Societies-of-Toxicology (EUROTOX), Bratislava, Slovakia, 10 - 13 September 2017, vol.280
- VI. **Effects of copper oxide nanoparticles on antioxidant enzyme activities in gill and liver tissues of *Oreochromis niloticus***  
Tuncsoy M., Duran S., Ay O., Cicik B., Erdem C.  
52nd Congress of the European-Societies-of-Toxicology (EUROTOX), Sevilla, Spain, 4 - 07 September 2016, vol.258
- VII. **Accumulation of lead in various tissues of *Clarias gariepinus* exposed to the metal singly and in mixture with of chitosan**  
Duran S., Tuncsoy M., Ay I., Cicik B., Erdem C.  
51st Congress of the European-Societies-of-Toxicology (EUROTOX), Porto, Portugal, 13 - 16 September 2015, vol.238
- VIII. **Accumulation of copper in gill, liver, spleen, kidney and muscle tissues of *Clarias gariepinus* exposed to the metal singly and with mixture of chitosan**  
TUNCSOY M., DURAN S., Ay I., Cicik B., ERDEM C.  
51st Congress of the European-Societies-of-Toxicology (EUROTOX), Porto, Portugal, 13 - 16 September 2015, vol.238
- IX. **Effects of copper and lead singly and with mixture of chitosan on some sera parameters of *Clarias gariepinus***  
Tuncsoy M., DURAN S., Ay O., Cicik B., ERDEM C.  
50th Congress of the European-Societies-of-Toxicology, Edinburgh, Saint Helena, 7 - 10 September 2014, vol.229
- X. **Çinkonun Farklı Derişimlerinin Etkisinde *Clarias gariepinus* (Burchell, 1822)'un Dokularındaki Metal Birikimi.**

Duran S., TUNÇSOY M., Yeşilbudak B., AY Ö., CİCİK B., Erdem C.

V. Ulusal Limnoloji Sempozyumu, Isparta, Turkey, 27 August 2012

**XI. Clarias gariepinus (Burchell, 1822)'da Çinkonun Bazı Serum Parametreleri Üzerine Etkileri.**

TUNÇSOY M., Duran S., Yeşilbudak B., AY Ö., CİCİK B., Erdem C.

Ekoloji 2012 Sempozyumu, Kilis, Turkey, 03 May 2012

## Supported Projects

Özalp P., Tunçsoy B., Tunçsoy M., Project Supported by Higher Education Institutions, Titanyum dioksit ve bakır oksit nanopartiküllerinin Galleria mellonella' da antioksidan enzim aktivitesi ve kan hücreleri üzerine etkilerinin incelenmesi, 2017 - 2021

Erdem C., Tunçsoy M., Duran S., Project Supported by Higher Education Institutions, Titanyum dioksit nanopartikülünün Clarias gariepinus'da antioksidan enzim aktiviteleri ve doku birikimi üzerine etkisi, 2017 - 2019

Erdem C., Tunçsoy M., Duran S., Project Supported by Higher Education Institutions, Bakır oksit nanopartikülünün Clarias gariepinus'da antioksidan enzim aktiviteleri doku birikimi ve bazı serum parametreleri üzerine etkisi, 2016 - 2019

Erdem C., Tunçsoy M., Project Supported by Higher Education Institutions, Bakır Oksit Nanopartikülleri ve Bakır Sülfat Etkisinde Oreochromis niloticus'un Dokularında Süreye Bağlı Bakır Birikiminin Bazı Serum Parametreleri ile Serum ve Karaciğer Enzim Aktiviteleri Üzerine Etkileri, 2013 - 2018

Erdem C., Tunçsoy M., Duran S., Project Supported by Higher Education Institutions, Bakır oksit nanopartikülünün Oreochromis niloticus'ta doku birikimi ve antioksidan enzim aktiviteleri üzerine etkisi, 2016 - 2017

Erdem C., Tunçsoy M., Duran S., Project Supported by Higher Education Institutions, Bakır, Çinko, Kurşun ve Kadmiyumun Tek Başlarına ve Karışımlarının Etkisinde Clarias gariepinus'un Karaciğer, Solungaç, Dalak, Böbrek ve Kas Dokularındaki Metal Birikimi, 2012 - 2014

Erdem C., Tunçsoy M., Project Supported by Higher Education Institutions, Bakır, Çinko ve Kadmiyumun Tek Başlarına ve Karışımlarının Etkisinde Oreochromis niloticus'un Karaciğer, Solungaç ve Kas Dokularındaki Metal Birikimi, 2009 - 2011

## Activities in Scientific Journals

AQUATIC TOXICOLOGY, Committee Member, 2024 - Continues

BIOLOGICAL TRACE ELEMENT RESEARCH, Committee Member, 2023 - Continues

Bulletin Of Environmental Contamination And Toxicology, Committee Member, 2021 - Continues

## Metrics

Publication: 30

Citation (WoS): 107

Citation (Scopus): 77

H-Index (WoS): 6

H-Index (Scopus): 5