

Asst. Prof. Ekrem SULUKAN

Personal Information

Email: ekrem.sulukan@atauni.edu.tr

Web: <https://avesis.atauni.edu.tr/ekrem.sulukan>

International Researcher IDs

ORCID: 0000-0002-4414-9873

Yoksis Researcher ID: 391301

Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Su Ürünleri Mühendisliği Anabilim Dalı, Turkey 2018 - 2022

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Su Ürünleri Mühendisliği Anabilim Dalı, Turkey 2013 - 2015

Undergraduate, Sinop University, Su Ürünleri Fakültesi, Su Ürünleri Mühendisliği, Turkey 2009 - 2012

Research Areas

Seafood, Life Sciences

Academic Titles / Tasks

Assistant Professor, Ataturk University, Su Ürünleri Fakültesi, Su Ürünleri Temel Bilimleri, 2024 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Co-exposure effect of different colour of LED lights and increasing temperature on zebrafish larvae (*Danio rerio*): Immunohistochemical, metabolomics, molecular and behaviour approaches**
Pir R., SULUKAN E., ŞENOL O., ATAKAY M., BARAN A., Kankaynar M., Yıldız E., SALİH B., CEYHUN S. B.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.951, 2024 (SCI-Expanded)
- II. **Global warming and nanoplastic toxicity; small temperature increases can make gill and liver toxicity more dramatic, which affects fillet quality caused by polystyrene nanoplastics in the adult zebrafish model**
ŞENOL O., Sulukan E., BARAN A., BOLAT İ., TORAMAN E., ALAK G., YILDIRIM S., Bilgin G., CEYHUN S. B.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.892, 2023 (SCI-Expanded)
- III. **The anxiolytic and circadian regulatory effect of agarwood water extract and its effects on the next generation; zebrafish modelling**
Kankaynar M., Ceyhun H. A., Baran A., Sulukan E., Yıldırım S., Bolat İ., Toraman E., Nadaroğlu H., Arslan M., Ceyhun S. B.
COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY, vol.269, 2023 (SCI-Expanded)
- IV. **Antioxidant/protective effects of carob pod (*Ceratonia siliqua* L.) water extract against deltamethrin-induced oxidative stress/toxicity in zebrafish larvae**
Ünal E., Sulukan E., Şenol O., Baran A., Nadaroğlu H., Kankaynar M., Kızıltan T., Ceyhun S. B.

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY, vol.267, 2023 (SCI-Expanded)

- V. **Global warming and glyphosate toxicity (I): Adult zebrafish modelling with behavioural, immunohistochemical and metabolomic approaches**
Sulukan E., Baran A., Şenol O., Kankaynar M., Yıldırım S., Bolat İ., Ceyhun H. A., Toraman E., Ceyhun S. B.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.858, 2023 (SCI-Expanded)
- VI. **Global warming and glyphosate toxicity (II): Offspring zebrafish modelling with behavioral, morphological and immunohistochemical approaches**
Sulukan E., Baran A., Kankaynar M., Kızıltan T., Bolat İ., Yıldırım S., Ceyhun H. A., Ceyhun S. B.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.856, 2023 (SCI-Expanded)
- VII. **Fluoride exposure causes behavioral, molecular and physiological changes in adult zebrafish (<i>Danio rerio</i>) and their offspring**
Karaman M., Toraman E., Sulukan E., Baran A., Bolat İ., Yıldırım S., Kankaynar M., Ghosigharehagaji A., Budak H., Ceyhun S. B.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.97, 2023 (SCI-Expanded)
- VIII. **Nano-sized polystyrene plastic particles affect many cancer-related biological processes even in the next generations; zebrafish modeling**
Sulukan E., ŞENOL O., BARAN A., Kankaynar M., Yildirim S., Kiziltan T., BOLAT İ., CEYHUN S. B.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.838, 2022 (SCI-Expanded)
- IX. **Effects of the food colorant carmoisine on zebrafish embryos at a wide range of concentrations**
Kiziltan T., Baran A., Kankaynar M., Şenol O., Sulukan E., Yıldırım S., Ceyhun S. B.
ARCHIVES OF TOXICOLOGY, vol.96, no.4, pp.1089-1099, 2022 (SCI-Expanded)
- X. **The synergic toxicity of temperature increases and nanopolystrene on zebrafish brain implies that global warming may worsen the current risk based on plastic debris**
Sulukan E., Baran A., Şenol O., Yildirim S., Mavi A., Ceyhun H. A., Toraman E., Ceyhun S. B.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.808, 2022 (SCI-Expanded)
- XI. **The potential effect mechanism of high-fat and high-carbohydrate diet-induced obesity on anxiety and offspring of zebrafish**
Turkoglu M., Baran A., Sulukan E., Ghosigharehagaji A., Yıldırım S., Ceyhun H. A., Bolat İ., Arslan M., Ceyhun S. B.
EATING AND WEIGHT DISORDERS-STUDIES ON ANOREXIA BULIMIA AND OBESITY, vol.27, no.1, pp.163-177, 2022 (SCI-Expanded)
- XII. **A versatile toxicity evaluation of ethyl carbamate (urethane) on zebrafish embryos: Morphological, physiological, histopathological, immunohistochemical, transcriptional and behavioral approaches**
Sulukan E., Ghosigharehagaji A., BARAN A., YILDIRIM S., BOLAT İ., CEYHUN S. B.
TOXICOLOGY LETTERS, pp.71-78, 2021 (SCI-Expanded)
- XIII. **An approach to evaluating the potential teratogenic and neurotoxic mechanism of BHA based on apoptosis induced by oxidative stress in zebrafish embryo (<i>Danio rerio</i>)**
Baran A., Yıldırım S., Ghosigharehagaji A., Bolat İ., Sulukan E., Ceyhun S. B.
HUMAN & EXPERIMENTAL TOXICOLOGY, no.3, pp.425-438, 2021 (SCI-Expanded)
- XIV. **Is sodium carboxymethyl cellulose (CMC) really completely innocent? It may be triggering obesity**
Baran A., Sulukan E., Türkoğlu M., Ghosigharehagaji A., Yıldırım S., Kankaynar M., Bolat İ., Kaya M., Topal A., Ceyhun S. B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, pp.2465-2473, 2020 (SCI-Expanded)
- XV. **Polystyrene nanoplastics (20 nm) are able to bioaccumulate and cause oxidative DNA damages in the brain tissue of zebrafish embryo (<i>Danio rerio</i>)**
Sökmen T. Ö., Sulukan E., Türkoğlu M., Baran A., Özkaraca M., Ceyhun S. B.
NEUROTOXICOLOGY, pp.51-59, 2020 (SCI-Expanded)
- XVI. **An approach to clarify the effect mechanism of glyphosate on body malformations during embryonic development of zebrafish (<i>Danio rerio</i>)**
SULUKAN E., KOKTURK M., CEYLAN H., Beydemir S., Isik M., ATAMANALP M., CEYHUN S. B.
CHEMOSPHERE, pp.77-85, 2017 (SCI-Expanded)

- XVII. **Effects of glyphosate on juvenile rainbow trout (*Oncorhynchus mykiss*): Transcriptional and enzymatic analyses of antioxidant defence system, histopathological liver damage and swimming performance**
Topal A., Atamanalp M., Uçar A., Oruc E., Kocaman E. M., Sulukan E., Akdemir F., Beydemir S., Kılınc N., Erdoğan O., et al.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, pp.206-214, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Green Synthesis Iron Oxide Nanoparticles (Fe@AV NPs) Induce Developmental Toxicity and Anxiety-Like Behavior in Zebrafish Embryo-Larvae**
KÖKTÜRK M., Yiğit A., SULUKAN E.
Marine Science and Technology Bulletin, vol.12, no.1, pp.39-50, 2023 (Peer-Reviewed Journal)
- II. **In Vivo Toxicity of Mixture Herbicides (Halauxifen methyl+Pyroxsulam+Cloquintocet acid): Zebrafish Embryo and Larva Model**
Sulukan E., Köktürk M.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.1, pp.617-627, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **EFFECT OF GLYPHOSATE APPLIED UNDER TEMPERATURE STRESS ON ZEBRAFISH LIVER TOXICITY**
Sulukan E., Toraman E., Ceyhun S. B.
ANADOLU 14TH INTERNATIONAL CONGRESS ON APPLIED SCIENCES, Gaziantep, Turkey, 16 - 18 February 2024, pp.247-252
- II. **INVESTIGATION OF GLOBAL WARMING-INDUCED DELTAMETHRIN TOXICITY IN A ZEBRAFISH MODEL**
Sulukan E., Toraman E., Ceyhun S. B.
4th International Conference on Innovative Academic Studies, Konya, Turkey, 12 - 13 March 2024, pp.512-516

Supported Projects

Ceyhun S. B., Sökmen T. Ö., Yıldırım S., Ceyhun H. A., Baran A., Gür E., Sulukan E., TUBITAK Project, Floresan İşaretili Polistren Nanoplastik Parçacıkların Zebra Balığı Beynindeki Hücresel İnteraksiyonunun ve Muhtemel Hasar Mekanizmalarının Tespiti, 2023 - 2025

Ceyhun S. B., Kaya M., Topal A., Baran A., TUBITAK Project, Gıda Katkı Maddesi Olarak Kullanılan Sodyum Karboksimetil Selüloz (E 466) ve Pektininin (E440i, E440ii) Zebra Balığı Embriyoları Üzerine Gelişim Toksisitesinin İncelenmesi, 2019 - 2020

Scientific Refereeing

THE SCIENCE OF THE TOTAL ENVIRONMENT , Journal Indexed in SCI-E, November 2023
ENVIRONMENTAL SCIENCES EUROPE, Journal Indexed in SCI-E, January 2023

Metrics

Publication: 21

Citation (WoS): 470

Citation (Scopus): 577

H-Index (WoS): 10

H-Index (Scopus): 12

Congress and Symposium Activities

BALKAN 7TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Attendee, Skopje, Macedonia, 2023

AICNHS 1st INTERNATIONAL CONFERENCE ON NEW HORIZONS IN SCIENCE, Attendee, Cairo, Egypt, 2023