

## **Assoc. Prof. Sefa KÜÇÜKLER**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: AHH-3001-2022

Yoksis Researcher ID: 294221

### **Education Information**

Doctorate, Ataturk University, Sağlık Bilimleri Enstitüsü, Veterinerlik Biyokimyası, Turkey 2015 - 2018

Undergraduate, Van Yüzüncü Yıl University, Veteriner Fakültesi, Turkey 2009 - 2014

### **Foreign Languages**

English, B2 Upper Intermediate

### **Dissertations**

Doctorate, Ratlarda İndometazin İle Oluşturulan Mide Ülseri Üzerine Chrysin'in Etkilerinin Araştırılması, Atatürk Üniversitesi, Sağlık Bilimleri Enstitüsü, Veterinerlik Biyokimyası, 2017

### **Research Areas**

Health Sciences, Veterinary Sciences, Veterinary Biochemistry, Natural Sciences

### **Academic Titles / Tasks**

Assistant Professor, Ataturk University, Veteriner Fakültesi, Veteriner Hekimliği Temel Bilimleri, 2018 - Continues

### **Courses**

Vitamin ve Mineral Metabolizması, Doctorate, 2023 - 2024, 2021 - 2022

Oxidative Stress, Doctorate, 2023 - 2024

Veterinary Biochemistry, Postgraduate, 2023 - 2024

Temel Laboratuvar Prensipleri, Undergraduate, 2023 - 2024

Biochemistry I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019

Medikal Kimya, Undergraduate, 2023 - 2024

Biyokimya II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Serbest Radikaller ve Antioksidanlar, Postgraduate, 2022 - 2023

Vitamin, Mineral ve Eser Elementler, Postgraduate, 2022 - 2023  
Nükleik Asit Biyokimyası, Postgraduate, 2021 - 2022  
Laboratuvar Hayvanlarının Biyokimyası, Doctorate, 2021 - 2022  
Vücut Sıvılarının Biyokimyası, Postgraduate, 2020 - 2021  
Klinik Laboratuvar Tanı III, Undergraduate, 2018 - 2019  
Histoloji, Associate Degree, 2018 - 2019  
Laboratuvar Teknikleri, Associate Degree, 2018 - 2019  
Doğum Bilgisi ve Jinekoloji, Associate Degree, 2018 - 2019  
Laboratuvara Giriş, Undergraduate, 2018 - 2019  
Laboratuvar Tekniği, Associate Degree, 2018 - 2019

## Advising Theses

Küçükler S., Ratlarda Bakır Nanopartikülleri Kaynaklı Karaciğer ve Böbrek Hasarı Üzerine Erkek Arı Larvası (Apilarnil)'nın Etkilerinin Araştırılması, Doctorate, A.GENÇ(Student), 2023  
Küçükler S., Ratlarda Dosetaksel Kaynaklı Karaciğer ve Böbrek Hasarı Üzerine Silymarin' in Etkilerinin Araştırılması, Doctorate, Ö.KANDEMİR(Student), 2023  
Küçükler S., Ratlarda Deltametrin Kaynaklı Testis Hasarı Üzerine Rutin'in Etkilerinin Araştırılması, Postgraduate, O.ÇELİK(Student), 2022

## Jury Memberships

Doctorate, Doctorate, Kafkas Üniversitesi, January, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022  
Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, November, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2022  
Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, May, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, April, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, February, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2022  
Doctoral Examination, Doctoral Examination, Kafkas Üniversitesi, December, 2018

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

- I. Effects of zingerone on rat induced testicular toxicity by sodium arsenite via oxidative stress, endoplasmic reticulum stress, inflammation, apoptosis, and autophagy pathways

- Tuncer S. Ç., GÜR C., KÜÇÜKLER S., AKARSU S. A., Kandemir F. M.  
Iranian Journal of Basic Medical Sciences, vol.27, no.5, pp.603-610, 2024 (SCI-Expanded)
- II. Effects of rutin against deltamethrin-induced testicular toxicity in rats: Biochemical, molecular, and pathological studies  
KÜÇÜKLER S., Çelik O., ÖZDEMİR S., AYDIN Ş., ÇOMAKLI S., Dalkılıç E.  
Food and Chemical Toxicology, vol.186, 2024 (SCI-Expanded)
- III. Sinapic acid protects against lead acetate-induced lung toxicity by reducing oxidative stress, apoptosis, inflammation, and endoplasmic reticulum stress damage  
AKARAS N., KÜÇÜKLER S., GÜR C., İLERİTÜRK M., Kandemir F. M.  
ENVIRONMENTAL TOXICOLOGY, 2024 (SCI-Expanded)
- IV. Sodium Pentaborate Prevents Acetaminophen-Induced Hepatorenal Injury by Suppressing Oxidative Stress, Lipid Peroxidation, Apoptosis, and Inflammatory Cytokines in Rats  
Aktas Senocak E., Utlu N., Kurt S., Kucukler S., Kandemir F. M.  
BIOLOGICAL TRACE ELEMENT RESEARCH, no.3, pp.1164-1173, 2024 (SCI-Expanded)
- V. Protective effects of naringin on colistin-induced damage in rat testicular tissue: Modulating the levels of Nrf-2/HO-1, AKT-2/FOXO1A, Bax/Bcl2/Caspase-3, and Beclin-1/LC3A/LC3B signaling pathways  
Kankılıç N. A., Şimşek H., Akaras N., GÜR C., İLERİTÜRK M., KÜÇÜKLER S., AKARSU S. A., Kandemir F. M.  
Journal of Biochemical and Molecular Toxicology, vol.38, no.2, 2024 (SCI-Expanded)
- VI. Carvacrol Reduces Mercuric Chloride-Induced Testicular Toxicity by Regulating Oxidative Stress, Inflammation, Apoptosis, Autophagy, and Histopathological Changes  
Simsek H., GÜR C., KÜÇÜKLER S., İLERİTÜRK M., Akaras N., Oz M., KANDEMİR F. M.  
BIOLOGICAL TRACE ELEMENT RESEARCH, 2023 (SCI-Expanded)
- VII. Hesperidin counteracts chlorpyrifos-induced neurotoxicity by regulating oxidative stress, inflammation, and apoptosis in rats  
Küçükler S., Çağlayan C., Oezdemir S., Çomaklı S., Kandemir F. M.  
METABOLIC BRAIN DISEASE, 2023 (SCI-Expanded)
- VIII. Effect of syringic acid on oxidative stress, autophagy, apoptosis, inflammation pathways against testicular damage induced by lead acetate.  
AKARSU S. A., GÜR C., İLERİTÜRK M., Akaras N., KÜÇÜKLER S., Kandemir F. M.  
Journal of Trace Elements in Medicine and Biology, vol.80, 2023 (SCI-Expanded)
- IX. Effects of sinapic acid on lead acetate-induced oxidative stress, apoptosis and inflammation in testicular tissue  
Tuncer S. Ç., Akarsu S. A., Küçükler S., Gür C., Kandemir F. M.  
ENVIRONMENTAL TOXICOLOGY, vol.38, no.11, pp.2656-2667, 2023 (SCI-Expanded)
- X. Effects of chrysins in cadmium-induced testicular toxicity in the rat; role of multi-pathway regulation  
Tuncer S. Ç., KÜÇÜKLER S., GÜR C., Aygörmez S., Kandemir F. M.  
Molecular Biology Reports, vol.50, no.10, pp.8305-8318, 2023 (SCI-Expanded)
- XI. Investigation of haematological, inflammatory and immunological response in naturally infected cattle with *Theileria annulata*.  
Aktas M. S., Eren E., Kucukler S., Eroglu M. S., Ilgun M., Yanar K. E., Aydin O.  
Parasite immunology, vol.45, no.9, 2023 (SCI-Expanded)
- XII. Protective effects of sinapic acid against lead acetate-induced nephrotoxicity: a multi-biomarker approach  
Şimşek H., Küçükler S., Gür C., Akaras N., Kandemir F. M.  
Environmental Science and Pollution Research, vol.30, no.45, pp.101208-101222, 2023 (SCI-Expanded)
- XIII. Protective effects of zingerone against sodium arsenite-induced lung toxicity: A multi-biomarker approach  
Şimşek H., Küçükler S., Gür C., İleritürk M., Aygörmez S., Kandemir F. M.  
Iranian Journal of Basic Medical Sciences, vol.26, no.9, pp.1098-1106, 2023 (SCI-Expanded)
- XIV. The protective effects of chrysins on cadmium-induced pulmonary toxicity; a multi-biomarker

## **approach**

- Akaras N., İlteritürk M., Gür C., Küçükler S., Oz M., Kandemir F. M.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.38, pp.89479-89494, 2023 (SCI-Expanded)
- XV. **Beneficial effects of Chrysin on Cadmium-induced nephrotoxicity in rats: Modulating the levels of Nrf2/HO-1, RAGE/NLRP3, and Caspase-3/Bax/Bcl-2 signaling pathways**  
Şimşek H., Akaras N., GÜR C., KÜÇÜKLER S., Kandemir F. M.  
Gene, vol.875, 2023 (SCI-Expanded)
- XVI. **Beneficial effects of quercetin on vincristine-induced liver injury in rats: Modulating the levels of Nrf2/HO-1, NF- $\kappa$ B/STAT3, and SIRT1/PGC-1 $\alpha$**   
ÇOMAKLI S., ÖZDEMİR S., KÜÇÜKLER S., Kandemir F. M.  
Journal of Biochemical and Molecular Toxicology, vol.37, no.5, 2023 (SCI-Expanded)
- XVII. **Morin ameliorates methotrexate-induced hepatotoxicity via targeting Nrf2/HO-1 and Bax/Bcl2/Caspase-3 signaling pathways**  
Kızıl H. E., ÇAĞLAYAN C., Darendelioğlu E., Ayna A., GÜR C., Kandemir F. M., KÜÇÜKLER S.  
Molecular Biology Reports, vol.50, no.4, pp.3479-3488, 2023 (SCI-Expanded)
- XVIII. **Zingerone reduces sodium arsenite-induced nephrotoxicity by regulating oxidative stress, inflammation, apoptosis and histopathological changes**  
Akaras N., GÜR C., KÜÇÜKLER S., Kandemir F. M.  
Chemico-Biological Interactions, vol.374, 2023 (SCI-Expanded)
- XIX. **Contribution of Oxidative Stress, Apoptosis, Endoplasmic Reticulum Stress and Autophagy Pathways to the Ameliorative Effects of Hesperidin in NaF-Induced Testicular Toxicity**  
Emre Kızıl H., GÜR C., Ayna A., Darendelioğlu E., KÜÇÜKLER S., Sağ S.  
Chemistry and Biodiversity, vol.20, no.3, 2023 (SCI-Expanded)
- XX. **Oxidative stress parameters in dogs naturally infected with sarcoptic mange**  
Yanar K. E., Küçükler S., Eren E., Eroğlu M. S., Gür C., Aktaş M. S.  
REVISTA COLOMBIANA DE CIENCIAS PECUARIAS, vol.36, no.4, pp.172-180, 2023 (SCI-Expanded)
- XXI. **Comparison of the effects of Aloe vera gel and coconut oil on the healing of open wounds in rats**  
İstek O., Tanrisever M., KÜÇÜKLER S., Karabulut B., Cevik A.  
VETERINARNI MEDICINA, vol.68, no.1, pp.17-26, 2023 (SCI-Expanded)
- XXII. **Morin mitigates ifosfamide induced nephrotoxicity by regulation of NF- $\kappa$ B/p53 and Bcl-2 expression**  
Çomaklı S., Kandemir F. M., Küçükler S., Özdemir S.  
BIOTECHNIC & HISTOCHEMISTRY, vol.97, no.6, pp.423-432, 2022 (SCI-Expanded)
- XXIII. **Neuroprotective effects of 18 beta-glycyrrhetic acid against bisphenol A-induced neurotoxicity in rats: involvement of neuronal apoptosis, endoplasmic reticulum stress and JAK1/STAT1 signaling pathway**  
ÇAĞLAYAN C., Kandemir F. M., AYNA A., GÜR C., KÜÇÜKLER S., DARENDELİOĞLU E.  
METABOLIC BRAIN DISEASE, vol.37, no.6, pp.1931-1940, 2022 (SCI-Expanded)
- XXIV. **Investigation of the effects of berberine on bortezomib-induced sciatic nerve and spinal cord damage in rats through pathways involved in oxidative stress and neuro-inflammation**  
Yardim A., Gür C., Çomaklı S., Özdemir S., Küçükler S., Celik H., Kandemir F. M.  
NEUROTOXICOLOGY, vol.89, pp.127-139, 2022 (SCI-Expanded)
- XXV. **The protective effect of Morin against ifosfamide-induced acute liver injury in rats associated with the inhibition of DNA damage and apoptosis**  
Özdemir S., Küçükler S., Çomaklı S., Kandemir F. M.  
DRUG AND CHEMICAL TOXICOLOGY, vol.45, no.3, pp.1308-1317, 2022 (SCI-Expanded)
- XXVI. **Protective effect of chrysin on indomethacin induced gastric ulcer in rats: role of multi-pathway regulation**  
Küçükler S., Kandemir F. M., Yıldırım S.  
BIOTECHNIC & HISTOCHEMISTRY, vol.97, no.7, pp.490-503, 2022 (SCI-Expanded)
- XXVII. **The protective effect of Naringenin against ovalbumin-induced allergic rhinitis in rats**

- Şahin A., Sakat M. S., Kılıç K., Aktan B., Yıldırım S., Kandemir F. M., Dortbudak M. B., Küçükler S.  
EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY, vol.278, no.12, pp.4839-4846, 2021 (SCI-Expanded)
- XXVIII. **Protective effects of rutin against deltamethrin-induced hepatotoxicity and nephrotoxicity in rats via regulation of oxidative stress, inflammation, and apoptosis**  
KÜÇÜKLER S., KANDEMİR F. M., ÖZDEMİR S., ÇOMAKLI S., ÇAĞLAYAN C.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.28, no.44, pp.62975-62990, 2021 (SCI-Expanded)
- XXIX. **Ameliorative effect of hesperidin on streptozotocin-diabetes mellitus-induced testicular DNA damage and sperm quality degradation in Sprague-Dawley rats**  
Aksu E. H., KANDEMİR F. M., KÜÇÜKLER S.  
JOURNAL OF FOOD BIOCHEMISTRY, vol.45, no.10, 2021 (SCI-Expanded)
- XXX. **Morin protects against acrylamide-induced neurotoxicity in rats: an investigation into different signal pathways**  
GÜR C., KANDEMİR F. M., DARENDELİOĞLU E., ÇAĞLAYAN C., KÜÇÜKLER S., Kandemir O., İLERİTÜRK M.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.28, no.36, pp.49808-49819, 2021 (SCI-Expanded)
- XXXI. **Hesperidin protects liver and kidney against sodium fluoride-induced toxicity through anti-apoptotic and anti-autophagic mechanisms**  
ÇAĞLAYAN C., KANDEMİR F. M., DARENDELİOĞLU E., KÜÇÜKLER S., AYNA A.  
LIFE SCIENCES, vol.281, 2021 (SCI-Expanded)
- XXXII. **Hesperidin protects against the chlorpyrifos-induced chronic hepato-renal toxicity in rats associated with oxidative stress, inflammation, apoptosis, autophagy, and up-regulation of PARP-1/VEGF**  
KÜÇÜKLER S., ÇOMAKLI S., ÖZDEMİR S., ÇAĞLAYAN C., KANDEMİR F. M.  
ENVIRONMENTAL TOXICOLOGY, vol.36, no.8, pp.1600-1617, 2021 (SCI-Expanded)
- XXXIII. **Modulatory effects of carvacrol against cadmium-induced hepatotoxicity and nephrotoxicity by molecular targeting regulation**  
KANDEMİR F. M., ÇAĞLAYAN C., DARENDELİOĞLU E., KÜÇÜKLER S., Izol E., Kandemir O.  
LIFE SCIENCES, vol.277, 2021 (SCI-Expanded)
- XXXIV. **Protective Effects of Chrysanthemum Induced by Lead Acetate in Rat Kidneys: a Biochemical and Histopathological Approach**  
Küçükler S., Benzer F., Yıldırım S., Gür C., Kandemir F. M., Bengu A. S., Ayna A., Caglayan C., Dortbudak M. B.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.4, pp.1501-1514, 2021 (SCI-Expanded)
- XXXV. **Attenuation of sodium arsenite-induced cardiotoxicity and neurotoxicity with the antioxidant, anti-inflammatory, and antiapoptotic effects of hesperidin**  
Kuzu M., Kandemir F. M., Yıldırım S., Çağlayan C., Küçükler S.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.28, no.9, pp.10818-10831, 2021 (SCI-Expanded)
- XXXVI. **The effects of hesperidin on colistin-induced reproductive damage, autophagy, and apoptosis by reducing oxidative stress**  
AKSU E. H., KANDEMİR F. M., KÜÇÜKLER S.  
ANDROLOGIA, vol.53, no.2, 2021 (SCI-Expanded)
- XXXVII. **Silymarin alleviates docetaxel-induced central and peripheral neurotoxicity by reducing oxidative stress, inflammation and apoptosis in rats**  
Yardim A., Küçükler S., Özdemir S., Çomaklı S., Çağlayan C., Kandemir F. M., Celik H.  
GENE, vol.769, 2021 (SCI-Expanded)
- XXXVIII. **Protective Effects of Curcumin Against Paclitaxel-Induced Spinal Cord and Sciatic Nerve Injuries in Rats**  
Yardim A., Kandemir F. M., Çomaklı S., Özdemir S., Çağlayan C., Küçükler S., Celik H.  
NEUROCHEMICAL RESEARCH, vol.46, no.2, pp.379-395, 2021 (SCI-Expanded)
- XXXIX. **Neuroprotective effect of chrysanthemum on isoniazid-induced neurotoxicity via suppression of oxidative stress, inflammation and apoptosis in rats**  
Celik H., Küçükler S., Çomaklı S., Çağlayan C., Özdemir S., Yardim A., Karaman M., Kandemir F. M.  
NEUROTOXICOLOGY, vol.81, pp.197-208, 2020 (SCI-Expanded)
- XL. **Quercetin provides protection against the peripheral nerve damage caused by vincristine in rats by**

- suppressing caspase 3, NF-κB, ATF-6 pathways and activating Nrf2, Akt pathways**  
Yardim A., KANDEMİR F. M., ÖZDEMİR S., KÜÇÜKLER S., ÇOMAKLI S., GÜR C., Celik H.  
NeuroToxicology, vol.81, pp.137-146, 2020 (SCI-Expanded)
- XLI. The investigation of the effect of fraxin on hepatotoxicity induced by cisplatin in rats**  
Akdemir F. N. E., Bingol C., Yıldırım S., Kandemir F. M., Küçükler S., Saglam Y. S.  
IRANIAN JOURNAL OF BASIC MEDICAL SCIENCES, vol.23, no.11, pp.1382-1387, 2020 (SCI-Expanded)
- XLII. Morin attenuates acrylamide-induced testicular toxicity in rats by regulating the NF-kappa B, Bax/Bcl-2 and PI3K/Akt/mTOR signaling pathways**  
Küçükler S., Caglayan C., Darendelioglu E., Kandemir F. M.  
LIFE SCIENCES, vol.261, 2020 (SCI-Expanded)
- XLIII. Zingerone attenuates vancomycin-induced hepatotoxicity in rats through regulation of oxidative stress, inflammation and apoptosis**  
Küçükler S., Darendelioglu E., Caglayan C., Ayna A., Yıldırım S., Kandemir F. M.  
LIFE SCIENCES, vol.259, 2020 (SCI-Expanded)
- XLIV. Lycopene protects against central and peripheral neuropathy by inhibiting oxaliplatin-induced ATF-6 pathway, apoptosis, inflammation and oxidative stress in brains and sciatic tissues of rats**  
Celik H., Küçükler S., Özdemir S., Çomaklı S., Gür C., Kandemir F. M., Yardim A.  
NeuroToxicology, vol.80, pp.29-40, 2020 (SCI-Expanded)
- XLV. Protective effect of rutin on mercuric chloride-induced reproductive damage in male rats**  
Kandemir F. M., Caglayan C., Aksu E. H., Yıldırım S., Kucukler S., Gur C., Eser G.  
Andrologia, vol.52, no.3, 2020 (SCI-Expanded)
- XLVI. Protective effects of morin against acrylamide-induced hepatotoxicity and nephrotoxicity: A multi-biomarker approach**  
Kandemir F. M., Yıldırım S., Küçükler S., Caglayan C., Darendelioglu E., Dörtbudak M. B.  
Food and Chemical Toxicology, vol.138, 2020 (SCI-Expanded)
- XLVII. Protective effect of chrysos on cyclophosphamide-induced hepatotoxicity and nephrotoxicity via the inhibition of oxidative stress, inflammation, and apoptosis**  
Temel Y., Küçükler S., Yıldırım S., Çağlayan C., Kandemir F. M.  
Naunyn-Schmiedeberg's Archives of Pharmacology, vol.393, pp.325-337, 2020 (SCI-Expanded)
- XLVIII. Neuroprotective effect of rutin against colistin-induced oxidative stress, inflammation and apoptosis in rat brain associated with the CREB/BDNF expressions**  
Çelik H., Kandemir F. M., Caglayan C., Özdemir S., Çomaklı S., Kucukler S., Yardim A.  
Molecular Biology Reports, vol.47, no.3, pp.2023-2034, 2020 (SCI-Expanded)
- XLIX. Investigation of curcumin role on doxorubicin-induced tissue damage in terms of trace metal levels using etaas**  
Ince O. K., Kandemir F. M., Ince M., Benzer F., Onal A., Küçükler S.  
Atomic Spectroscopy, vol.41, no.4, pp.175-180, 2020 (SCI-Expanded)
- L. Rutin ameliorates mercuric chloride-induced hepatotoxicity in rats via interfering with oxidative stress, inflammation and apoptosis**  
Caglayan C., Kandemir F. M., Darendelioglu E., Yıldırım S., Küçükler S., Dörtbudak M. B.  
Journal of Trace Elements in Medicine and Biology, vol.56, pp.60-68, 2019 (SCI-Expanded)
- LI. Palliative effect of curcumin on doxorubicin-induced testicular damage in male rats**  
Aksu E. H., Kandemir F. M., Yıldırım S., Küçükler S., Dörtbudak M. B., Çağlayan C., Benzer F.  
Journal of Biochemical and Molecular Toxicology, vol.33, 2019 (SCI-Expanded)
- LII. The effects of zingerone against vancomycin-induced lung, liver, kidney and testis toxicity in rats: The behavior of some metabolic enzymes**  
Caglayan C., Taslimi P., Demir Y., Küçükler S., Kandemir F. M., Gülgün İ.  
Journal of Biochemical and Molecular Toxicology, vol.33, 2019 (SCI-Expanded)
- LIII. The antiapoptotic and antioxidant effects of eugenol against cisplatin-induced testicular damage in the experimental model**  
Akdemir F. N. E., Yıldırım S., Kandemir F. M., Aksu E. H., Guler M. C., Kızıltunç Özmen H., Küçükler S., Eser G.

- ANDROLOGIA, vol.51, no.9, 2019 (SCI-Expanded)
- LIV. **Protective effects of zingerone on cisplatin-induced nephrotoxicity in female rats**  
Kandemir F. M., Yıldırım S., Çağlayan C., Küçükler S., Eser G.  
Environmental Science and Pollution Research, vol.26, pp.22562-22574, 2019 (SCI-Expanded)
- LV. **Protective effect of morin on doxorubicin-induced hepatorenal toxicity in rats**  
Kuzu M., Yıldırım S., Kandemir F. M., Küçükler S., Çağlayan C., Turk E., Dortbudak M. B.  
Chemico-Biological Interactions, vol.308, pp.89-100, 2019 (SCI-Expanded)
- LVI. **Rutin protects mercuric chloride-induced nephrotoxicity via targeting of aquaporin 1 level, oxidative stress, apoptosis and inflammation in rats**  
Çaglayan C., Kandemir F. M., Yıldırım S., Küçükler S., Eser G.  
Journal of Trace Elements in Medicine and Biology, vol.54, pp.69-78, 2019 (SCI-Expanded)
- LVII. **Protective Effect of Hesperidin on Sodium Arsenite-Induced Nephrotoxicity and Hepatotoxicity in Rats**  
Turk E., Kandemir F. M., Yıldırım S., Çaglayan C., Küçükler S., Kuzu M.  
Biological Trace Element Research, vol.189, pp.95-108, 2019 (SCI-Expanded)
- LVIII. **The amendatory effect of hesperidin and thymol in allergic rhinitis: an ovalbumin-induced rat model**  
Kılıç K., Sakat M. S., Yıldırım S., Kandemir F. M., Gözeler M. S., Dortbudak M. B., Küçükler S.  
European Archives of Oto-Rhino-Laryngology, vol.276, pp.407-415, 2019 (SCI-Expanded)
- LIX. **Effect of chrysin on methotrexate-induced testicular damage in rats**  
BELHAN S., Çomaklı S., KUCUKLER S., GÜLYÜZ F., YILDIRIM S., YENER Z.  
Andrologia, vol.51, no.1, 2019 (SCI-Expanded)
- LX. **The effects of hesperidin on sodium arsenite-induced different organ toxicity in rats on metabolic enzymes as antidiabetic and anticholinergics potentials: A biochemical approach**  
Çaglayan C., Demir Y., Küçükler S., Tashimi P., Kandemir F. M., Gülcin İ.  
Journal of Food Biochemistry, vol.43, 2019 (SCI-Expanded)
- LXI. **Protective effects of gallic acid on doxorubicin-induced cardiotoxicity; an experimental study**  
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## Metrics

Publication: 138

Citation (WoS): 2667

Citation (Scopus): 2903

H-Index (WoS): 34

H-Index (Scopus): 35