

## Assoc. Prof. Sefa KÜÇÜKLER

---

**Web:** <https://avesis.atauni.edu.tr/sefa.kucukler>

### International Researcher IDs

ScholarID: Mq1Th6sAAAAJ

ORCID: 0000-0002-8222-5515

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

Yoksis Researcher ID: 294221

### Education Information

---

- I. Doctorate, Ataturk University, Sağlık Bilimleri Enstitüsü, Veterinerlik Biyokimyası, Turkey 2015 - 2018
- II. Undergraduate, Van Yüzüncü Yil University, Veteriner Fakültesi, Turkey 2009 - 2014

### Foreign Languages

---

- I. English, B2 Upper Intermediate

### Dissertations

---

- I. 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

---

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

### Courses

---

- I. Vitamin ve Mineral Metabolizması, Doctorate, 2023 - 2024, 2021 - 2022
- II. Oxidative Stress, Doctorate, 2023 - 2024
- III. Veterinary Biochemistry, Postgraduate, 2023 - 2024
- IV. Temel Laboratuvar Prensipleri, Undergraduate, 2023 - 2024
- V. Biochemistry I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019
- VI. Medikal Kimya, Undergraduate, 2023 - 2024
- VII. Biyokimya II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
- VIII. Serbest Radikaller ve Antioksidanlar, Postgraduate, 2022 - 2023
- IX. Vitamin, Mineral ve Eser Elementler, Postgraduate, 2022 - 2023
- X. Nükleik Asit Biyokimyası, Postgraduate, 2021 - 2022

- XI. Laboratuvar Hayvanlarının Biyokimyası, Doctorate, 2021 - 2022
- XII. Vücut Sıvılarının Biyokimyası, Postgraduate, 2020 - 2021
- XIII. Klinik Laboratuvar Tanı III, Undergraduate, 2018 - 2019
- XIV. Histoloji, Associate Degree, 2018 - 2019
- XV. Laboratuvar Teknikleri, Associate Degree, 2018 - 2019
- XVI. Doğum Bilgisi ve Jinekoloji, Associate Degree, 2018 - 2019
- XVII. Laboratuvara Giriş, Undergraduate, 2018 - 2019
- XVIII. Laboratuvar Tekniği, Associate Degree, 2018 - 2019

## Advising Theses

---

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

## Jury Memberships

---

- I. Doctorate, Doctorate, Kafkas Üniversitesi, January, 2023
- II. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022
- III. Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, November, 2022
- IV. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2022
- V. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2022
- VI. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2022
- VII. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2022
- VIII. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2022
- IX. Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, May, 2022
- X. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2022
- XI. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, April, 2022
- XII. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, February, 2022
- XIII. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2022
- XIV. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2022
- XV. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2022
- XVI. Doctoral Examination, Doctoral Examination, Kafkas Üniversitesi, December, 2018

- I. **The ameliorative effect of carvacrol on sodium arsenite-induced hepatotoxicity in rats: Possible role of Nrf2/HO-1, RAGE/NLRP3, Bax/Bcl-2/Caspase-3, and Beclin-1 pathways**  
Gencer S., GÜR C., İLERİTÜRK M., KÜÇÜKLER S., Akaras N., Şimşek H., Kandemir F. M.  
Journal of Biochemical and Molecular Toxicology, vol.38, no.10, 2024 (SCI-Expanded)
- II. **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, vol.202, no.10, pp.4605-4617, 2024 (SCI-Expanded)
- III. **Protective Effects of Syringic Acid Against Oxidative Damage, Apoptosis, Autophagy, Inflammation, Testicular Histopathologic Disorders, and Impaired Sperm Quality in the Testicular Tissue of Rats Induced by Mercuric Chloride**  
AKARSU S. A., GÜR C., KÜÇÜKLER S., Akaras N., İLERİTÜRK M., Kandemir F. M.  
Environmental Toxicology, vol.39, no.10, pp.4803-4814, 2024 (SCI-Expanded)
- IV. **Ameliorative effects of sinapic acid against vancomycin-induced testicular oxidative damage, apoptosis, inflammation, testicular histopathologic disorders and decreased epididymal sperm quality**  
AKARSU S. A., İLERİTÜRK M., KÜÇÜKLER S., Akaras N., GÜR C., Kandemir F. M.  
REPRODUCTIVE TOXICOLOGY, vol.129, 2024 (SCI-Expanded)
- V. **Hepatoprotective effects of zingerone on sodium arsenite-induced hepatotoxicity in rats: Modulating the levels of caspase-3/Bax/Bcl-2, NLRP3/NF- $\kappa$ B/TNF- $\alpha$  and ATF6/IRE1/PERK/GRP78 signaling pathways**  
Eriten B., ÇAĞLAYAN C., GÜR C., KÜÇÜKLER S., Diril H.  
Biochemical and Biophysical Research Communications, vol.725, 2024 (SCI-Expanded)
- VI. **The ameliorative effects of chrysin on bortezomib-induced nephrotoxicity in rats: Reduces oxidative stress, endoplasmic reticulum stress, inflammation damage, apoptotic and autophagic death**  
Kankılıç N. A., Şimşek H., Akaras N., GÜR C., KÜÇÜKLER S., İLERİTÜRK M., Gencer S., Kandemir F. M.  
Food and Chemical Toxicology, vol.190, 2024 (SCI-Expanded)
- VII. **EFFECTS OF Ehrlichia canis, Anaplasma phagocytophilum /Anaplasma platys AND Dirofilaria immitis INFECTIONS ON OXIDATIVE STRESS AND ANTIOXIDANT BALANCE IN DOGS**  
DOKUZEYLÜL B., KIRBAŞ A., KAYAR A., Kandemir F., KÜÇÜKLER S., OR M. E., Adaszek Ł.  
Journal of Animal and Plant Sciences, vol.34, no.4, pp.988-998, 2024 (SCI-Expanded)
- VIII. **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, vol.39, no.7, pp.3820-3832, 2024 (SCI-Expanded)
- IX. **Naringin protects against paclitaxel-induced toxicity in rat testicular tissues by regulating genes in pro-inflammatory cytokines, oxidative stress, apoptosis, and JNK/MAPK signaling pathways**  
Kankılıç N. A., KÜÇÜKLER S., GÜR C., AKARSU S. A., Akaras N., Simsek H., İLERİTÜRK M., Kandemir F. M.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.38, no.7, 2024 (SCI-Expanded)
- X. **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)
- XI. **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)
- XII. **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, vol.39, no.4, pp.509-522, 2024 (SCI-Expanded)

- XIII. **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, vol.202, no.3, pp.1164-1173, 2024 (SCI-Expanded)
- XIV. **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)
- XV. **Protective Effects of Carvacrol on Mercuric Chloride-Induced Lung Toxicity Through Modulating Oxidative Stress, Apoptosis, Inflammation, and Autophagy**  
Eriten B., KÜÇÜKLER S., GÜR C., Ayna A., Diril H., ÇAĞLAYAN C.  
Environmental Toxicology, 2024 (SCI-Expanded)
- XVI. **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)
- XVII. **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)
- XVIII. **Effects of chrysin 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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **The protective effects of chrysin on cadmium-induced pulmonary toxicity; a multi-biomarker approach**  
Akaras N., İleritürk 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)
- XXIII. **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)
- XXIV. **Beneficial effects of quercetin on vincristine-induced liver injury in rats: Modulating the levels of Nrf2/HO-1, NF-kB/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)

- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Comparison of the effects of Aloe vera gel and coconut oil on the healing of open wounds in rats**  
Istek O., Tanrisever M., KÜÇÜKLER S., Karabulut B., Cevik A.  
VETERINARNI MEDICINA, vol.68, no.1, pp.17-26, 2023 (SCI-Expanded)
- XXX. **Morin mitigates ifosfamide induced nephrotoxicity by regulation of NF-kappaB/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)
- XXXI. **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)
- XXXII. **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**  
Yardımlı A., Gür C., Çomaklı S., Özdemir S., Küçükler S., Celik H., Kandemir F. M.  
NEUROTOXICOLOGY, vol.89, pp.127-139, 2022 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)

- XXXIX. **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)
- XL. **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)
- XLI. **Modulatory effects of carvacrol against cadmium-induced hepatotoxicity and nephrotoxicity by molecular targeting regulation**  
KANDEMİR F. M., ÇAĞLAYAN C., DARENDELİOĞLU E., KÜÇÜKLER S., İzol E., Kandemir O.  
LIFE SCIENCES, vol.277, 2021 (SCI-Expanded)
- XLII. **Protective Effects of Chrysin Against Oxidative Stress and Inflammation Induced by Lead Acetate in Rat Kidneys: a Biochemical and Histopathological Approach**  
Küçükler S., Benzer F., Yıldırım S., Gür C., Kandemir F. M., Bengü A. S., Ayna A., Çağlayan C., Dortbudak M. B.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.4, pp.1501-1514, 2021 (SCI-Expanded)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **Neuroprotective effect of chrysin 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)
- XLIX. **The investigation of the effect of fraxin on hepatotoxicity induced by cisplatin in rats**  
Akdemir F. N. E., Bingöl C., Yıldırım S., Kandemir F. M., Küçükler S., Sağlam Y. S.  
IRANIAN JOURNAL OF BASIC MEDICAL SCIENCES, vol.23, no.11, pp.1382-1387, 2020 (SCI-Expanded)
- L. **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., Çağlayan C., Darendelioğlu E., Kandemir F. M.  
LIFE SCIENCES, vol.261, 2020 (SCI-Expanded)
- LI. **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)

- LII. **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., Yardım A.  
NeuroToxicology, vol.80, pp.29-40, 2020 (SCI-Expanded)
- LIII. **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)
- LIV. **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., Dortbudak M. B.  
Food and Chemical Toxicology, vol.138, 2020 (SCI-Expanded)
- LV. **Protective effect of chrysin 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)
- LVI. **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., Yardım A.  
Molecular Biology Reports, vol.47, no.3, pp.2023-2034, 2020 (SCI-Expanded)
- LVII. **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)
- LVIII. **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)
- LIX. **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)
- LX. **Palliative effect of curcumin on doxorubicin-induced testicular damage in male rats**  
Aksu E. H., Kandemir F. M., Yıldırım S., Küçükler S., Dortbudak M. B., Çağlayan C., Benzer F.  
Journal of Biochemical and Molecular Toxicology, vol.33, 2019 (SCI-Expanded)
- LXI. **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., Gülçin İ.  
Journal of Biochemical and Molecular Toxicology, vol.33, 2019 (SCI-Expanded)
- LXII. **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)
- LXIII. **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)
- LXIV. **Rutin protects mercuric chloride-induced nephrotoxicity via targeting of aquaporin 1 level, oxidative stress, apoptosis and inflammation in rats**  
Caglayan 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)

- LXV. **Protective Effect of Hesperidin on Sodium Arsenite-Induced Nephrotoxicity and Hepatotoxicity in Rats**  
Turk E., Kandemir F. M., Yıldırım S., Çağlayan C., Küçükler S., Kuzu M.  
Biological Trace Element Research, vol.189, pp.95-108, 2019 (SCI-Expanded)
- LXVI. **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)
- LXVII. **The effects of hesperidin on sodium arsenite-induced different organ toxicity in rats on metabolic enzymes as antidiabetic and anticholinergics potentials: A biochemical approach**  
Çağlayan C., Demir Y., Küçükler S., Taşlımı P., Kandemir F. M., Gülçin İ.  
Journal of Food Biochemistry, vol.43, 2019 (SCI-Expanded)
- LXVIII. **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)
- LXIX. **Protective effects of gallic acid on doxorubicin-induced cardiotoxicity; an experimental study**  
Akdemir F. N. E., Yıldırım S., Kandemir F. M., Tanyeli A., Küçükler S., Dortbudak M. B.  
Archives of Physiology and Biochemistry, 2019 (SCI-Expanded)
- LXX. **Investigation of the effects of hesperidin and chrysin on renal injury induced by colistin in rats**  
Hanedan B., Özkaraca M., Kirbas A., Kandemir F. M., Aktas M. S., Kılıc K., Comakli S., Kucukler S., Bilgili A.  
Biomedicine and Pharmacotherapy, vol.108, pp.1607-1616, 2018 (SCI-Expanded)
- LXXI. **The effects of casticin and myricetin on liver damage induced by methotrexate in rats**  
Ekinçi-Akdemir F. N., Yıldırım S., Kandemir F. M., Gülçin İ., Küçükler S., Sağlam Y. S., Yakan S.  
IRANIAN JOURNAL OF BASIC MEDICAL SCIENCES, vol.21, no.12, pp.1281-1288, 2018 (SCI-Expanded)
- LXXII. **Chemoprotective effects of curcumin on doxorubicin-induced nephrotoxicity in wistar rats: by modulating inflammatory cytokines, apoptosis, oxidative stress and oxidative DNA damage.**  
Benzer F., Kandemir F. M., Kucukler S., Comaklı S., Çağlayan C.  
Archives of physiology and biochemistry, vol.124, pp.448-457, 2018 (SCI-Expanded)
- LXXIII. **Naringin' in Erkek Ratlarda Methotrexate İndüklü Testis Apoptosisi ve otofajisi Üzerine Oksidatif Stresi Azaltmak Yoluyla Koruyucu Etkisi**  
AKSU E. H., KANDEMİR F. M., KÜÇÜKLER S.  
Fırat Üniversitesi Sağlık Bilimleri Veteriner Dergisi, vol.32, no.3, pp.179-183, 2018 (SCI-Expanded)
- LXXIV. **Improvement in colistin-induced reproductive damage, apoptosis, and autophagy in testes via reducing oxidative stress by chrysin.**  
Aksu E. H., Kandemir F. M., Kucukler S., Mahamadu A.  
Journal of biochemical and molecular toxicology, vol.32, 2018 (SCI-Expanded)
- LXXV. **Preventive effects of hesperidin on diabetic nephropathy induced by streptozotocin via modulating TGF-β1 and oxidative DNA damage**  
Kandemir F. M., Özkaraca M., Küçükler S., Çağlayan C., Hanedan B.  
Toxin Reviews, vol.37, no.4, pp.287-293, 2018 (SCI-Expanded)
- LXXVI. **Morin attenuates doxorubicin-induced heart and brain damage by reducing oxidative stress, inflammation and apoptosis**  
Kuzu M., Kandemir F. M., Yıldırım S., Küçükler S., Çağlayan C., Turk E.  
Biomedicine and Pharmacotherapy, vol.106, pp.443-453, 2018 (SCI-Expanded)
- LXXVII. **The ameliorative effect of berberine and coenzyme Q10 in an ovalbumin-induced allergic rhinitis model**  
Sakat M. S., Kılıç K., Kandemir F. M., Yıldırım S., Şahin A., Küçükler S., Sağlam Y. S.  
EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY, vol.275, no.10, pp.2495-2505, 2018 (SCI-Expanded)
- LXXVIII. **Therapeutic efficacy of zingerone against vancomycin-induced oxidative stress, inflammation, apoptosis and aquaporin 1 permeability in rat kidney**  
Kandemir F. M., Yıldırım S., Küçükler S., Çağlayan C., Mahamadu A., Dortbudak M. B.  
Biomedicine and Pharmacotherapy, vol.105, pp.981-991, 2018 (SCI-Expanded)



- LXXXIX. **Naringin protects against cyclophosphamide-induced hepatotoxicity and nephrotoxicity through modulation of oxidative stress, inflammation, apoptosis, autophagy, and DNA damage**  
Caglayan C., Temel Y., Kandemir F. M., Yıldırım S., Küçükler S.  
Environmental Science and Pollution Research, vol.25, pp.20968-20984, 2018 (SCI-Expanded)
- LXXX. **Zingerone ameliorates cisplatin-induced ovarian and uterine toxicity via suppression of sex hormone imbalances, oxidative stress, inflammation and apoptosis in female wistar rats**  
Kaygusuzoglu E., Caglayan C., Kandemir F. M., Yıldırım S., Kucukler S., Kılinc M., Saglam Y. S.  
BIOMEDICINE & PHARMACOTHERAPY, vol.102, pp.517-530, 2018 (SCI-Expanded)
- LXXXI. **Curcumin ameliorates doxorubicin-induced cardiotoxicity by abrogation of inflammation, apoptosis, oxidative DNA damage, and protein oxidation in rats**  
Benzer F., Kandemir F. M., Özkaraca M., Küçükler S., Caglayan C.  
Journal of Biochemical and Molecular Toxicology, vol.32, 2018 (SCI-Expanded)
- LXXXII. **Restorative effects of Chrysin pretreatment on oxidant–antioxidant status, inflammatory cytokine production, and apoptotic and autophagic markers in acute paracetamol-induced hepatotoxicity in rats: An experimental and biochemical study**  
Eldutar E., Kandemir F. M., Küçükler S., Caglayan C.  
Journal of Biochemical and Molecular Toxicology, vol.31, 2017 (SCI-Expanded)
- LXXXIII. **Beneficial Effects of Ozone Therapy on Oxidative Stress, Cardiac Functions and Clinical Findings in Patients with Heart Failure Reduced Ejection Fraction**  
Büyüklü M., Kandemir F. M., Set T., Bakırcı E. M., Değirmenci H., Hamur H., Topal E., Küçükler S., Turkmen K.  
Cardiovascular Toxicology, vol.17, pp.426-433, 2017 (SCI-Expanded)
- LXXXIV. **Therapeutic effects of silymarin and naringin on methotrexate-induced nephrotoxicity in rats: Biochemical evaluation of anti-inflammatory, antiapoptotic, and antiautophagic properties**  
Kandemir F. M., Kucukler S., Caglayan C., Gür C., Batıl A. A., Gülçin İ.  
Journal of Food Biochemistry, vol.41, 2017 (SCI-Expanded)
- LXXXV. **Rutin ameliorates cisplatin-induced reproductive damage via suppression of oxidative stress and apoptosis in adult male rats**  
Aksu E. H., Kandemir F. M., Özkaraca M., Ömür A. D., Küçükler S., Çomaklı S.  
Andrologia, vol.49, no.1, 2017 (SCI-Expanded)
- LXXXVI. **Mitigation of paracetamol-induced reproductive damage by chrysin in male rats via reducing oxidative stress**  
Aksu E. H., Özkaraca M., Kandemir F. M., Ömür A. D., Eldutar E., Küçükler S., Çomaklı S.  
Andrologia, vol.48, no.10, pp.1145-1154, 2016 (SCI-Expanded)
- LXXXVII. **Ameliorative Effect of Carvacrol on Cisplatin-Induced Reproductive Damage in Male Rats**  
Aksu E. H., Kandemir F. M., Altun S., Kucukler S., Çomaklı S., Ömür A. D.  
Journal of Biochemical and Molecular Toxicology, vol.30, pp.513-520, 2016 (SCI-Expanded)
- LXXXVIII. **The possible role of interleukin-33 as a new player in the pathogenesis of contrast-induced nephropathy in diabetic rats**  
Demirtas L., Turkmen K., Kandemir F. M., Ozkaraca M., Kucukler S., Gürbüz M., Comaklı S.  
Renal Failure, vol.38, no.6, pp.952-960, 2016 (SCI-Expanded)
- LXXXIX. **Effects of Helichrysum plicatum extract against Thallium I sulphate induced reproductive damage in male rats**  
Ömür A. D., Apaydın Yıldırım B., Küçükler S.  
Faseb Journal, vol.30, 2016 (SCI-Expanded)

## Articles Published in Other Journals

---

- I. **Investigation of the Effects of Rutin in Sprague Dawley Rats with Biochemical Parameters in Colistin-Induced Lung Injury**

KANDEMİR Ö., KÜÇÜKLER S.

Türk Doğa ve Fen Dergisi, vol.13, no.3, pp.140-147, 2024 (Peer-Reviewed Journal)

- II. **Investigation of the effects of apilarnil and imatinib use on liver and kidney tissues in rats via PI3K/AKT/mTOR and JAK2/STAT3 pathways**  
ÇAĞLAYAN C., GENÇ A., KÜÇÜKLER S., İNCİ H.  
Türk Doğa ve Fen Dergisi, vol.13, no.3, pp.134-139, 2024 (Peer-Reviewed Journal)
- III. **Investigation of the Effects of Sinapic Acid Against LeadInduced Spleen Toxicity**  
DALKILINÇ E., KÜÇÜKLER S., AYDIN Ş.  
Laboratuvar Hayvanları Bilimi ve Uygulamaları dergisi (Online), vol.4, no.2, pp.72-77, 2024 (Peer-Reviewed Journal)
- IV. **A Study on Clinical, Hematological and IL-8 Levels in Neonatal Calf Diarrhea Caused by E. coli and Rotaviruses**  
Eroğlu M. S., Hanedan B., Eren E., Küçükler S., Aktaş M. S.  
Fırat Üniversitesi Sağlık Bilimleri Veteriner Dergisi, vol.38, no.2, pp.95-101, 2024 (Peer-Reviewed Journal)
- V. **Naringin protects against colistin-induced sciatic nerve damage by reducing oxidative stress, apoptosis and inflammation damage**  
Yılmaz S., KÜÇÜKLER S., Şimşek H., Aygörmez S., Kandemir F. M.  
Journal of Experimental and Clinical Medicine (Turkey), vol.41, no.1, pp.53-59, 2024 (Scopus)
- VI. **Helichrysum Plicatum DC Subsp Plicatum Etanol Ekstraktının Sıçanlarda Talyum Sülfatın Neden Olduğu Testis Toksisitesi Üzerine Etkilerinin Belirlenmesi**  
ÖMÜR A. D., APAYDIN YILDIRIM B., KÜÇÜKLER S., MOKHTARE B., KARATAŞ Ö., ÖZKARACA M., AKARSU S. A.  
Van Sağlık Bilimleri Dergisi, 2024 (Peer-Reviewed Journal)
- VII. **Effects of Vitis vinifera L. cv. "Merlot" Seed Extract Against Thallium (I) Sulfate-Induced Reproductive Damage in Male Rats**  
ÖMÜR A. D., APAYDIN YILDIRIM B., MOKHTARE B., KÜÇÜKLER S., MENDİL A. S., GEZER A., AKARSU S. A.  
Ataturk Üniversitesi Veteriner Bilimleri Dergisi, vol.18, no.3, pp.90-94, 2023 (Scopus)
- VIII. **Protective Effects of Morin Against Acrylamide-Induced Oxidative Stress, Inflammation and Apoptosis in Rat Spleen Tissue: A Biochemical and Histopathological Approach**  
akaras n., KANDEMİR F. M., Simsek H., KÜÇÜKLER S., Oğuz Kabayel R.  
Fırat Üniversitesi Sağlık Bilimleri Veteriner Dergisi, vol.37, no.3, pp.188-194, 2023 (Peer-Reviewed Journal)
- IX. **RATLARDA KURŞUN ASETAT KAYNAKLI KARACİĞER HASARI ÜZERİNE CHRYSİN' İN ETKİLERİNİN ARAŞTIRILMASI**  
Coşkun P., Benzer F., Kandemir F. M., Yıldırım S., Küçükler S.  
Türk Tarım ve Doğa Bilimleri Dergisi, vol.8, no.2, pp.250-261, 2021 (Peer-Reviewed Journal)
- X. **Ameliorating Effects of Rutin on Nephrotoxicity Caused by Cisplatin in Rats**  
Kandemir F. M., Hanedan B., Aktaş M. S., Küçükler S., Çağlayan C.  
Fırat Üniversitesi Sağlık Bilimleri Veteriner Dergisi, vol.34, no.3, pp.147-151, 2020 (Peer-Reviewed Journal)
- XI. **Alterations in Enzyme Activity of Carbonic Anhydrase, 6-phosphogluconate Dehydrogenase and Thioredoxin Reductase in Rats Exposed to Doxorubicin and Morin**  
Aggul A. G., Kuzu M., Kandemir F. M., Küçükler S., Çağlayan C.  
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.10, no.3, pp.228-234, 2020 (ESCI)
- XII. **Ratlarda Kadmiyum Kaynaklı Mide Toksisitesine Karşı Karvakrol'un Etkileri**  
KÜÇÜKLER S., ÖZDEMİR S., KANDEMİR F. M., ÇAĞLAYAN C.  
Türk Doğa ve Fen Dergisi, 2020 (Peer-Reviewed Journal)
- XIII. **Effects of Chrysin Against Isoniazid-Induced Lung Injury in Rats**  
Küçükler S., Özdemir S., Çomaklı S., Kandemir F. M.  
Kocatepe Veterinary Journal, vol.13, no.2, pp.161-171, 2020 (Peer-Reviewed Journal)
- XIV. **Ameliorating Effects of Rutin on Nephrotoxicity Caused by Cisplatin in Rats**  
HANEDAN B., KANDEMİR F. M., AKTAŞ M. S., KÜÇÜKLER S., ÇAĞLAYAN C.  
Fırat Üniversitesi Sağlık Bilimleri Veteriner Dergisi, vol.34, no.3, pp.147-151, 2020 (Peer-Reviewed Journal)
- XV. **Ratlarda Doksetel Kaynaklı Testis Toksisitesi Üzerine Silimarinin Etkileri: Biyokimyasal, Moleküler**

### **ve Histopatolojik Değerlendirme**

KÜÇÜKLER S., ÇOMAKLI S., ÖZDEMİR S., KANDEMİR F. M.

Fırat Üniversitesi Sağlık Bilimleri Veteriner Dergisi, 2020 (Peer-Reviewed Journal)

- XVI. **Ratlarda Kadmiyum Kaynaklı Mide Toksisitesine Karşı Karvakrol'un Etkileri**  
Küçükler S., Özdemir S., Kandemir F. M., Çağlayan C.  
Türk Doğa ve Fen Dergisi, vol.9, no.1, pp.12-18, 2020 (Peer-Reviewed Journal)
- XVII. **Antioxidant Potential of Ferulic Acid on the Freezability of Bull Semen**  
ÖMÜR A. D., ERTAY Ş., GÜNEY M., ŞAHİN A., KÜÇÜKLER S., ÇAMLI M., CHACHAR M. F. A., TAYHAN A., YOLALAN Ö., AKSU E. H.  
Open Access Journal of Veterinary Science Research, 2019 (Peer-Reviewed Journal)
- XVIII. **Protective Effect of Naringin on Methotrexate-Induced Testicular Apoptosis and Autophagy Via Reducing Oxidative Stress in Male Rats**  
AKSU E. H., KANDEMİR F. M., KÜÇÜKLER S.  
Fırat Üniversitesi Sağlık Bilimleri Veteriner Dergisi, vol.32, no.3, 2018 (Peer-Reviewed Journal)
- XIX. **Ratlarda Methotrexate Kaynaklı Karaciğer Toksisitesine Karşı Silymarin ve Naringin'in Yararlı Etkileri**  
KANDEMİR F. M., KÜÇÜKLER S., ÇAĞLAYAN C.  
Atatürk Üniversitesi Veteriner Bilimleri Dergisi, vol.12, no.2, pp.167-177, 2017 (Scopus)
- XX. **Chrysin protects rat kidney from paracetamol-induced oxidative stress, inflammation, apoptosis, and autophagy: A multi-biomarker approach**  
Kandemir F. M., Kucukler S., Eldutar E., Caglayan C., Gülçin İ.  
Scientia Pharmaceutica, vol.85, 2017 (ESCI)
- XXI. **Ratlarda Methotrexate Kaynaklı Karaciğer Toksisitesine Karşı Silymarin ve Naringin'in Yararlı Etkileri**  
KANDEMİR F. M., KÜÇÜKLER S., çağlayan c.  
Atatürk Üniversitesi Veteriner Bilimleri Dergisi, vol.12, no.2, pp.167-177, 2016 (Peer-Reviewed Journal)
- XXII. **Ratlarda Methotrexate Kaynaklı Karaciğer Toksisitesine Karşı Silymarin ve Naringin'in Yararlı Etkileri**  
Kandemir F. M., Küçükler S., Çağlayan C.  
Atatürk Üniversitesi Veteriner Bilimleri Dergisi, vol.12, no.2, pp.167-177, 2016 (Scopus)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Quinacrine'in Ratlarda LPS'nin Neden Olduğu Akut Pulmoner Enflamasyon Üzerine Etkileri**  
Çomaklı S., Küçükler S., Değirmençay Ş., Bolat İ.  
XI. ULUSAL / II. ULUSLARASI VETERİNER PATOLOJİ KONGRESİ, Erzurum, Turkey, 4 - 08 September 2023, pp.20-22
- II. **Ratlarda İndometazin İle Oluşturulan Mide Ülseri Üzerine Chrysin'in Etkilerinin Araştırılması**  
Küçükler S., Kandemir F. M.  
International Eurasian Conference on Biotechnology and Biochemistry, Ankara, Turkey, 16 - 18 December 2020, pp.512-520
- III. **The ameliorative effect of berberine on Some Oxidant-Antioxidant and Cytokine Levels in Rats with Bortezomib induced Brain Injury**  
KÜÇÜKLER S.  
5th International Hippocrates Congress on Medical and Health Sciences, 18 - 19 December 2020
- IV. **Ratlarda İfosamid Kaynaklı Kalp Hasarı Üzerine Morin'in Etkilerinin Araştırılması**  
Küçükler S.  
INSAC Natural and Health Sciences, Konya, Turkey, 22 - 23 May 2020, pp.291-292
- V. **RATLARDA METOTREKSAT UYGULAMASININ KALP DOKUSU ÜZERİNE ETKİLERİNİN BİYOKİMYASAL OLARAK ARAŞTIRILMASI**

KÜÇÜKLER S.

Uluslararası Uygulamalı Bilimler Kongresi, Ordu, Turkey, 25 - 26 April 2020

- VI. **OKSALİPLATİN KAYNAKLI TESTİS HASARI ÜZERİNE LİKOPENİN KORUYUCU ETKİLERİNİN ARAŞTIRILMASI**  
Küçükler S., Kandemir F. M.  
1. ULUSLARARASI GAP GIDA, TARIM VE VETERİNER BİLİMLERİ KONGRESİ, Şanlıurfa, Turkey, 29 November - 01 December 2019, pp.415-423
- VII. **Anti-Inflammatory and Anti-apoptotic Effects of Zingerone on Vancomycin-Induced Nephrotoxicity in Rats**  
Kandemir F. M., Yıldırım S., Küçükler S., Çağlayan C., Muhamadua A., Dörtbudak M.  
1st International Veterinary Biochemistry and Clinical Biochemistry Congress, Hatay, Turkey, 12 - 15 April 2018, pp.3
- VIII. **Biochemical Evaluation of Anti-Inflamatur, Anti-Apoptotic And Anti-Otophagic Properties Of Silimarine And Naringin on Methodrexate-Induced Nephrotoxicity in Rats.**  
KANDEMİR F. M., KÜÇÜKLER S., ÇAĞLAYAN C., GÜR C., BATIL a., GÜLÇİN İ.  
Uluslararası Gıda Tarım ve Hayvancılık Kongresi, 19 - 22 October 2019
- IX. **Zingeron'un siplatin kaynaklı nefrotoksisite üzerindeki koruyucu etkileri**  
KANDEMİR F. M., YILDIRIM S., ÇAĞLAYAN C., KÜÇÜKLER S., ESER G.  
ULUSLARARASIGIDA, TARIM VE HAYVANCILIK KONGRESİ, Gaziantep, Turkey, 19 - 22 September 2019
- X. **Protective Effects of Rutin Against Mercuric Chlorideinduced Hepatotoxicity in Male Rats.**  
Çağlayan C., Kandemir F. M., Darendelioğlu E., Yıldırım S., Küçükler S., Dörtbudak M. B.  
Uluslararası Gıda Tarım ve Hayvancılık Kongresi, Gaziantep, Turkey, 19 - 22 September 2019, pp.47-48
- XI. **PROTECTIVE EFFECTS OF CHRYSIN ON CYCLOPHOSPHAMIDE-INDUCED HEPATOTOXICITY VIA THEINHIBITION OF OXIDATIVE STRESS, INFLAMMATION ANDAPOPTOSIS**  
Temel Y., Küçükler S., Yıldırım S., Çağlayan C., Kandemir F. M.  
ULUSLARARASIGIDA, TARIM veHAYVANCILIK KONGRESİ, Gaziantep, Turkey, 19 - 22 September 2019, pp.49-50
- XII. **Ratlarda, Metotreksat ile İndüklenen Nefrotoksisite Üzerine, Silimarin ve Naringinin Anti-Oksidan, Anti-Enflamatur, Anti-Apoptotik ve Anti-Otofajik Özelliklerinin Biyokimyasal Olarak Değerlendirilmesi**  
KANDEMİR F. M., KÜÇÜKLER S., ÇAĞLAYAN C., GÜR C., BATIL A. A., GÜLÇİN İ.  
ULUSLARARASI GIDA, TARIM VE HAYVANCILIK KONGRESİ, Gaziantep, Turkey, 19 - 22 September 2019
- XIII. **PROTECTIVE EFFECTS OF RUTIN AGAINST MERCURICCHLORIDE-INDUCED HEPATOTOXICITY IN MALE RATS**  
KANDEMİR F. M., YILDIRIM S., ÇAĞLAYAN C., KÜÇÜKLER S., ESER G.  
ULUSLARARASIGIDA, TARIM veHAYVANCILIK KONGRESİ, 19 - 22 September 2019
- XIV. **ZİNGERON'UN SİSPLATİN KAYNAKLI NEFROTOKSİSİTEÜZERİNDEKİ KORUYUCU ETKİLERİ**  
Kandemir F. M., Yıldırım S., Çağlayan C., Küçükler S., Eser G.  
ULUSLARARASIGIDA, TARIM veHAYVANCILIK KONGRESİ, Gaziantep, Turkey, 19 - 22 September 2019, pp.54-55
- XV. **Kolistin İndüklü Üreme Hasarı, Testisteki Apoptosis ve Otofajinin Chrysin' in Oksidatif Stresi Azaltıcı Etkisi ile Korunması**  
Aksu E. H., Kandemir F. M., Küçükler S., Mahamadu A.  
9. Ulusal Reprodüksiyon ve Suni Tohumlama Bilim Kongresi, Hatay, Turkey, 5 - 09 September 2018
- XVI. **Protective effects of hesperidin against sodium arsenate-inducedkidney toxicity**  
TÜRK E., KANDEMİR F. M., YILDIRIM S., ÇAĞLAYAN C., KÜÇÜKLER S., KUZU M.  
7th INTERNATIONAL MOLECULAR BIOLOGY and BIOTECHNOLOGY CONGRESS, Konya, Turkey, 25 - 27 April 2018
- XVII. **Sodyum Arsenat ile İndüklenen Karaciğer Toksisitesine Karşı Hesperidin'in Koruruyu Etkileri.**  
türk e., KANDEMİR F. M., YILDIRIM S., KÜÇÜKLER S., çağlayan c., kuzu m.  
International Eurasian Conference on Biological and Chemical, Ankara, Turkey, 26 - 27 April 2018, pp.1
- XVIII. **Protective effects of hesperidin against sodium arsenate-induced kidney toxicity.**  
Türk E., Kandemir F. M., Yıldırım S., Küçükler S., Çağlayan C., Kuzu M.

- 7th International Congress on Molecular Biology and Biotechnology, Konya, Turkey, 25 - 27 April 2018, pp.1
- XIX. **Kuzu M, Kandemir F.M, Yildirim S, Çağlayan C, Küçükler S, Türk E Neuroprotective effect of morin on rats exposed to doxorubicin.**  
Kuzu M., Kandemir F. M., Yildirim S., Çağlayan C., Küçükler S., Türk E.  
7th International Congress on Molecular Biology and Biotechnology, Konya, Turkey, 25 - 27 April 2018, pp.1
- XX. **Neuroprotective effect of morin on rats exposed to doxorubicin.**  
KUZU M., KANDEMİR F. M., YILDIRIM S., ÇAĞLAYAN C., KÜÇÜKLER S., türk E.  
7th International Congress on Molecular Biology and Biotechnology, 25 - 27 April 2018
- XXI. **Protective effects of hesperidin against sodium arsenate-induced kidney toxicity.**  
türk e., KANDEMİR F. M., YILDIRIM S., KÜÇÜKLER S., çağlayan c., kuzu m.  
7th International Congress on Molecular Biology and Biotechnology, Konya, Turkey, 25 - 27 April 2018, pp.1
- XXII. **Ratlarda Doksorubisinin Oluşturduğu Kardiyotoksisteye Karşı Morinin Koruyucu Etkisi**  
Kuzu M., Kandemir F. M., Yildirim S., Çağlayan C., Küçükler S., Türk E.  
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018
- XXIII. **Sodyum Arsenat ile İndüklenen Karaciğer Toksikitesine Karşı Hesperidin'in Koruruyu Etkileri**  
TÜRK E., KANDEMİR F. M., YILDIRIM S., KÜÇÜKLER S., ÇAĞLAYAN C., KUZU M.  
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018
- XXIV. **Curcumin Ameliorates Doxorubicin-Induced Cardiotoxicity by Abrogation of Inflammation, Apoptosis, Oxidative DNA Damage and Protein Oxidation in Rats.**  
Benzer F., Kandemir F. M., Özkaraca M., Küçükler S., Çağlayan C.  
1st INTERNATIONAL VETERINARY BIOCHEMISTRY AND CLINICAL BIOCHEMISTRY CONGRESS, Hatay, Turkey, 12 - 15 April 2018
- XXV. **Anti-Inflammatory and Anti-apoptotic Effects of Zingerone on Vancomycin-Induced Nephrotoxicity in Rats**  
KANDEMİR F. M., YILDIRIM S., KÜÇÜKLER S., ÇAĞLAYAN C., Muhamadu A., DÖRTBUDAK M. B.  
1st INTERNATIONAL VETERINARY BIOCHEMISTRY AND CLINICAL BIOCHEMISTRY CONGRESS, Hatay, Turkey, 12 - 15 April 2018
- XXVI. **Ameliorative Effect of Naringin on Cyclophosphamide-Induced Hepatotoxicity in Wistar Rats**  
Çağlayan C., Temel Y., Kandemir F. M., Yildirim S., Küçükler S.  
1st INTERNATIONAL VETERINARY BIOCHEMISTRY AND CLINICAL BIOCHEMISTRY CONGRESS, Hatay, Turkey, 12 - 15 April 2018
- XXVII. **Ameliorative Effect of Naringin on Cyclophosphamide-induced Hepatotoxicity**  
Çağlayan C., temel y., KANDEMİR F. M., YILDIRIM S., KÜÇÜKLER S.  
Ameliorative Effect of Naringin on Cyclophosphamide-induced Hepatotoxicity. 1st International Veterinary Biochemistry and Clinical Biochemistry Congress, Hatay, Turkey, 12 - 15 April 2018, pp.1-2
- XXVIII. **Ameliorative Effects of Zingerone Against Cisplatin-Induced Ovarian Toxicity in Female Rats**  
Kaygusuzoğlu E., Çağlayan C., Kandemir F. M., Yildirim S., Küçükler S., Sağlam Y. S.  
VI. NATIONAL I. INTERNATIONAL CONGRESS OF TURKISH SOCIETY OF VETERINARY GYNAECOLOGY, Antalya, Turkey, 12 - 15 October 2017
- XXIX. **Ratlarda methotrexate kaynaklı karaciğer toksisitesine karşı silymarin ve naringin in yararlı etkileri**  
Kandemir F. M., Küçükler S., Çağlayan C.  
ATATÜRK ÜNİVERSİTESİ VETERİNER FAKÜLTESİ (ATAVET) I. ULUSLARARASI KATILIMLI ÖĞRENCİ KONGRESİ, Erzurum, Turkey, 18 - 20 October 2017
- XXX. **Dişi sıçanlarda sisplatin ile indüklenen ovarium toksisitesine karşı zingeronun iyileştirici etkileri.**  
KAYGUSUZOĞLU E., ÇAĞLAYAN C., KANDEMİR F. M., YILDIRIM S., KÜÇÜKLER S.  
Türk Veteriner Jinekoloji Derneği I.Uluslararası Kongresi, MARMARİS, Turkey, 12 - 15 October 2017
- XXXI. **Investigation of the effects of hesperidin and chrysin on renal injury induced by colistin in rats**  
HANEDAN B., ÖZKARACA M., KIRBAŞ A., KANDEMİR F. M., AKTAŞ M. S., KILIÇ K., ÇOMAKLI S., KÜÇÜKLER S., BİLGİLİ A.  
I. International Turkish Veterinary Internal Medicine Congress, Antalya, Turkey, 10 - 13 October 2017
- XXXII. **Ratlarda kolistin ile oluşturulan böbrek hasarı üzerine hesperidin ve krisin'in etkilerinin**

## araştırılması

HANEDAN B., ÖZKARACA M., KIRBAŞ A., KANDEMİR F. M., AKTAŞ M. S., KILIÇ K., ÇOMAKLI S., Küçükler S., BİLGİLİ A.  
I. Uluslararası Türkiye Veteriner İç Hastalıkları Kongresi, 10 - 13 October 2017

XXXIII. **Preventive effects of hesperidin on streptozotocin-induced diabetic nephropathy by modulating TGF- $\beta$ 1 and 8-OHdG**

Kandemir F. M., Özkaraca M., Küçükler S., Çağlayan C., Hanedan B.

International Biochemistry Congress, Erzurum, Turkey, 19 - 23 September 2017

XXXIV. **Erkek Ratlarda Parasetamol İndüklü Üreme Sistemi Hasarının Chrysin tarafından Oksidatif Stresin Azaltılması**

AKSU E. H., Özkaraca M., Kandemir F. M., Ömür A. D., Eldutar E., Küçükler S., Çomaklı S.

VIII. Ulusal Reprodüksiyon ve Suni Tohumlama Bilim Kongresi, Antalya, Turkey, 4 - 09 September 2016, pp.41

XXXV. **Protectives effects of rutin on oxidatives stress apoptosis and autophagy in cisplatin induced renal damage in rats**

Kandemir F. M., Hanedan B., Aktaş M. S., Küçükler S., Çağlayan C.

3 rd International Vetistanbul group congress, Sarajevo, Bosnia And Herzegovina, 17 - 20 May 2016

XXXVI. **Attenuates effects of carvacrol pretreatment Against cisplatin induced liver oxidative stress in rats**

Hanedan B., Kandemir F. M., Aktaş M. S., Küçükler S., Bilgili A.

3. rd. International vetistanbul group congress, Sarajevo, Bosnia And Herzegovina, 17 - 20 May 2016

XXXVII. **Effects of Helichrysum plicatum extract against Thallium(I) sulphate-induced reproductive damage in male rats**

ÖMÜR A. D., Yildirim B. A., KÜÇÜKLER S.

Experimental Biology Meeting, California, United States Of America, 2 - 06 April 2016, vol.30

## Supported Projects

- I. Özdemir S., Öztürk G., Çomaklı S., Küçükler S., Altundaş N., Aksungur N., Öztürk N., Kara S., Korkut E., TUBITAK Project, Investigation of the Diagnostic Potential of Exosomal Circna, LncRNA, MRNA and Protein-Based Biomarker Candidates Originated from Serum Samples of Hepatic Alveolar Echinococcal Patients, 2022 - 2025
- II. GENÇ M., ÖZENTÜRK U., KÜÇÜKLER S., Project Supported by Higher Education Institutions, Döllü Bildircin Yumurtalarına İnOvo Chrysin Takviyesinin Kuluçka Performansı Yaşama Gücü Yumurtlama Yaşı Cıvcivlerde Bağışıklık Düzeyi ve Oksidatif Stres Üzerine Etkisi, 2022 - 2024
- III. KÜÇÜKLER S., ÇELİK O., Project Supported by Higher Education Institutions, Ratlarda Deltametrin Kaynaklı Testis Hasarı Üzerine Rutinin Etkilerinin Araştırılması, 2022 - 2023
- IV. KÜÇÜKLER S., ÇOMAKLI S., DEĞİRMENÇAY Ş., GENÇ A., Project Supported by Higher Education Institutions, Ratlarda İzoproterenol Uygulamasıyla Oluşturulan Miyokard Hasarına Karşı Karvakrolün Etkilerinin Araştırılması, 2022 - 2023
- V. Bolat İ., Çomaklı S., Küçükler S., Değirmençay Ş., Project Supported by Higher Education Institutions, LPS'ye bağlı şekillenen akut organ hasarları üzerine Quinacrinein etkisinin araştırılması, 2022 - 2023
- VI. Değirmençay Ş., Özdemir S., Küçükler S., TUBITAK Project, Identification of Differentially Expressed CircRNAs in Dogs Diagnosed with Canine Parvoviral Enteritis, 2021 - 2022
- VII. Değirmençay Ş., Küçükler S., Özdemir S., Kaman R., Project Supported by Higher Education Institutions, Evaluation of hematological and biochemical parameters in cattle with anaplasmosis, 2021 - 2022
- VIII. SAĞLAM Y. S., TİMURKAN M. Ö., KÜÇÜKLER S., ÇOMAKLI S., Project Supported by Higher Education Institutions, Atatürk Üniversitesi Veteriner Fakültesi Hayvan Hastanesi ile Veteriner Teşhis ve Analiz Laboratuvarlarının Cihaz Bakım-Onarım ve Tüketim Malzemesi İhtiyaçlarının Karşılanması, 2020 - 2022
- IX. Küçükler S., Darendelioğlu E., Çağlayan C., Kandemir F. M., Project Supported by Higher Education Institutions, Ratlarda bisfenol A kaynaklı karaciğer ve böbrek hasarı üzerine 18 $\beta$ -glisiretinik asid'in etkilerinin araştırılması, 2020 - 2022
- X. Çağlayan C., Darendelioğlu E., Kandemir F. M., Küçükler S., Project Supported by Higher Education Institutions,

Ratlarda Sodyum Florür Kaynaklı Karaciğer ve Böbrek Hasarına Karşı Hesperidin'in Etkilerinin Biyokimyasal Araştırılması, 2019 - 2020

- XI. KÜÇÜKLER S., ÇOMAKLI S., KANDEMİR F. M., ÖZDEMİR S., ÇAĞLAYAN C., Project Supported by Higher Education Institutions, Ratlarda Klorpirifos İle Oluşturulan Çoklu Organ Hasarı Üzerine Hesperidin'in Etkilerinin Araştırılması, 2019 - 2020
- XII. Küçükler S., Kuzu M., Kandemir F. M., Çağlayan C., Yıldırım S., Project Supported by Higher Education Institutions, Ratlarda akrilamid kaynaklı çoklu organ hasarı üzerine morin hidratin etkilerinin araştırılması, 2018 - 2019
- XIII. Küçükler S., Kandemir F. M., Project Supported by Higher Education Institutions, Ratlarda İndometazin ile Oluşturulan Mide Ülseri Üzerine Chrysin in Etkilerinin Araştırılması, 2018 - 2018
- XIV. Küçükler S., Kuzu M., Kandemir F. M., Yıldırım S., Çağlayan C., Project Supported by Higher Education Institutions, Ratlarda Adriamycin Kaynaklı Çoklu Organ Hasarı Üzerine Morin hidratin Etkilerinin Araştırılması, Yükseköğretim Kurumları tarafından destekli bilimsel araştırma projesi, 2017 - 2018
- XV. Küçükler S., Türk E., Kandemir F. M., Yıldırım S., Project Supported by Higher Education Institutions, Ratlarda Sodyum arsenat ile oluşturulan çoklu organ hasarı üzerine Hesperidin'in etkilerinin araştırılması, 2017 - 2018
- XVI. Küçükler S., Temel Y., Çağlayan C., Kandemir F. M., Yıldırım S., Project Supported by Higher Education Institutions, Ratlarda Cyclophosphamide Kaynaklı Karaciğer Ve Böbrek Hasarı Üzerine Chrysin Ve Naringin'in Etkilerinin Araştırılması, 2016 - 2018
- XVII. Küçükler S., Kaygusuzoğlu E., Çağlayan C., Kandemir F. M., Project Supported by Higher Education Institutions, Ratlarda Cisplatin Kaynaklı Ovaryum Toksikitesi Üzerine Zingeron'un Etkilerinin Araştırılması, 2016 - 2017
- XVIII. Küçükler S., Kandemir F. M., Aksu E. H., Çağlayan C., Project Supported by Higher Education Institutions, RATLARDAN VANCOMYCİNE İLE OLUŞTURULAN KARACİĞER VE BÖBREK HASARI ÜZERİNE ZİNGERON' UN ETKİLERİNİN ARAŞTIRILMASI, 2016 - 2017
- XIX. Küçükler S., Kandemir F. M., Project Supported by Higher Education Institutions, RATLARDAN METHOTREXATE İLE OLUŞTURULAN KARACİĞER VE BÖBREK HASARI ÜZERİNE NARİNGİN'İN ETKİLERİNİN ARAŞTIRILMASI, 2015 - 2017
- XX. Küçükler S., Kandemir F. M., Project Supported by Higher Education Institutions, Ratlarda Streptozotosin Kaynaklı Böbrek Hasarı Üzerine Hesperidin' in Etkilerinin Araştırılması Atatürk Üniversitesi BAP 2015 53, 2015 - 2016

## Metrics

---

Publication: 150

Citation (WoS): 3083

Citation (Scopus): 3383

H-Index (WoS): 36

H-Index (Scopus): 37

## Coaching Duties

---

## Refereeing Duties

---