

Assoc. Prof. CÜNEYT ÇAĞLAYAN

Personal Information

Office Phone: [+90 228 214 1125](tel:+902282141125)

Fax Phone: [+90 228 214 2583](tel:+902282142583)

Email: cuneyt.caglayan@bilecik.edu.tr

Web: <https://avesis.bilecik.edu.tr/cuneyt.caglayan>

International Researcher IDs

ScholarID: 5s-8n1oAAAAJ

ORCID: 0000-0001-5608-554X

Publons / Web Of Science ResearcherID: CJL-9184-2022

ScopusID: 57191202853

Yoksis Researcher ID: 25391

Education Information

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

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Biyokimya (Dr), Turkey 2013 - 2017

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Biyokimya (YI) (Tezli), Turkey 2010 - 2013

Undergraduate, Ataturk University, Fen Fakültesi, Kimya Bölümü, Turkey 2006 - 2010

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Ratlarda civa (II) klorür kaynaklı karaciğer ve böbrek hasarı üzerine rutin'xxin etkilerinin araştırılması, Ataturk University, Sağlık Bilimleri Enstitüsü, Veterinerlik Biyokimyası (Dr), 2018

Doctorate, Keçi karaciğer ve böbrek dokularından karbonik anhidraz enziminin saflaştırılması, karakterizasyonu ve bazı metal iyonlarının, antibiyotiklerin ve avermektinlerin enzim aktivitesi üzerine etkilerinin incelenmesi, Ataturk University, Fen Bilimleri Enstitüsü, Biyokimya (Dr), 2017

Postgraduate, Oktopamin: Antioksidan kapasitesi ve insan karbonik anhidraz izoenzimleri (hCA I ve hCA II) üzerine etkisi, Ataturk University, Fen Bilimleri Enstitüsü, Biyokimya (YI) (Tezli), 2013

Research Areas

Biochemistry

Academic Titles / Tasks

Associate Professor, Bilecik Seyh Edebali University, Tıp Fakültesi, Temel Tıp Bilimleri, 2022 - Continues

Academic and Administrative Experience

Bingol University, 2020 - 2022
Bingol University, 2018 - 2022
Bingol University, 2018 - 2022
Bingol University, 2018 - 2022
Bingol University, 2019 - 2020

Courses

Lipid Metabolizması ve Biyolojik Membranlar, Postgraduate, 2021 - 2022, 2020 - 2021
Biyokimya I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Biyokimya II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Beslenme Biyokimyası, Undergraduate, 2021 - 2022
Arı Ürünlerinin Antioksidan Özellikleri, Postgraduate, 2020 - 2021
Organik - İnorganik Kimya, Undergraduate, 2019 - 2020, 2018 - 2019

Advising Theses

Çağlayan C., Ratlarda vinkristin ile oluşturulan karaciğer toksisitesi üzerine Bingöl yöresinden toplanan arı sütünün etkilerinin araştırılması, Postgraduate, R.ERZİNCAN(Student), 2023
CÜNEYT Ç., 3-amino-5-aril-rhodanin türevlerinin çözücü kontrollü bölgesel seçici sentezi ve insan karbonik anhidraz izoenzimleri (hCA I ve hCA II) üzerine inhibisyon etkisinin incelenmesi, Postgraduate, E.BİLEN(Student), 2022
CÜNEYT Ç., Ratlarda metotreksat kaynaklı böbrek hasarı üzerine morin hidrat'ın etkilerinin araştırılması, Postgraduate, S.SAĞ(Student), 2022
CÜNEYT Ç., Ratlarda bisfenol A ile oluşturulan kardiyotoksosite üzerine 18 β -glisiretinik asidin etkilerinin araştırılması, Postgraduate, İ.BAYAV(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis of N-substituted 4-phenyl-2-aminothiazole derivatives and investigation of their inhibition properties against hCA I, II, and AChE enzymes**
BİÇER A., ÇAĞLAYAN C., Demir Y., Türkeş C., Altundaş R., Akyıldız H., BEYDEMİR Ş.
Archives of Biochemistry and Biophysics, vol.761, 2024 (SCI-Expanded)
- II. **Therapeutic Potential of Silymarin in Mitigating Paclitaxel-Induced Hepatotoxicity and Nephrotoxicity: Insights into Oxidative Stress, Inflammation, and Apoptosis in Rats**
YAKUT S., ATCALI T., ÇAĞLAYAN C., ULUCAN A., KANDEMİR F. M., KARA A., ANUK T.
Balkan Medical Journal, vol.41, no.3, pp.193-205, 2024 (SCI-Expanded)
- III. **Hesperidin counteracts chlorpyrifos-induced neurotoxicity by regulating oxidative stress, inflammation, and apoptosis in rats**
KÜÇÜKLER S., ÇAĞLAYAN C., ÖZDEMİR S., ÇOMAKLI S., Kandemir F. M.
Metabolic Brain Disease, vol.39, no.4, pp.509-522, 2024 (SCI-Expanded)
- IV. **The effects of morin and methotrexate on pentose phosphate pathway enzymes and GR/GST/TrxR enzyme activities: An in vivo and in silico study**
ÇAĞLAYAN C., Temel Y., TÜRKEŞ C., Ayna A., Ece A., BEYDEMİR Ş.
Archiv der Pharmazie, vol.357, no.2, 2024 (SCI-Expanded)
- V. **18 β -Glycyrrhetic acid exerts cardioprotective effects against BPA-induced cardiotoxicity through antiapoptotic and antioxidant mechanisms**
Bayav I., Darendeliolu E., ÇAĞLAYAN C.
Journal of Biochemical and Molecular Toxicology, vol.38, no.2, 2024 (SCI-Expanded)

- VI. **Does Decreased Vitamin D Level Trigger Bipolar Manic Attacks?**
İmre O., Karaağaç M., ÇAĞLAYAN C.
Behavioral Sciences, vol.13, no.9, 2023 (SSCI)
- VII. **The Relationship of Cognitive Dysfunction with Inflammatory Markers and Carotid Intima Media Thickness in Schizophrenia**
İmre O., Caglayan C., Muştu M.
JOURNAL OF PERSONALIZED MEDICINE, vol.13, no.9, pp.1-9, 2023 (SCI-Expanded)
- VIII. **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)
- IX. **The synthesis, biological evaluation and in silico studies of asymmetric 3,5-diaryl-rhodanines as novel inhibitors of human carbonic anhydrase isoenzymes**
Yararlı K., Ozer E. B., Bayindir S., ÇAĞLAYAN C., TÜRKEŞ C., BEYDEMİR Ş.
Journal of Molecular Structure, vol.1276, 2023 (SCI-Expanded)
- X. **Caffeic acid phenethyl ester: A review on its pharmacological importance, and its association with free radicals, COVID-19, and radiotherapy**
Taysi S., Algburi F. S., Taysi M. E., ÇAĞLAYAN C.
Phytotherapy Research, vol.37, no.3, pp.1115-1135, 2023 (SCI-Expanded)
- XI. **Evaluation of the toxicological effects of favipiravir (T-705) on liver and kidney in rats: biochemical and histopathological approach**
Kara A., Yakut S., ÇAĞLAYAN C., Atçalı T., Ulucan A., Kandemir F. M.
Drug and Chemical Toxicology, vol.46, no.3, pp.546-556, 2023 (SCI-Expanded)
- XII. **Chrysin mitigates diclofenac-induced hepatotoxicity by modulating oxidative stress, apoptosis, autophagy and endoplasmic reticulum stress in rats**
Varışlı B., ÇAĞLAYAN C., Kandemir F. M., GÜR C., Ayna A., Genç A., Taysi S.
Molecular Biology Reports, vol.50, no.1, pp.433-442, 2023 (SCI-Expanded)
- XIII. **The impact of Nrf2/HO-1, caspase-3/Bax/Bcl2 and ATF6/IRE1/PERK/GRP78 signaling pathways in the ameliorative effects of morin against methotrexate-induced testicular toxicity in rats**
Varışlı B., ÇAĞLAYAN C., Kandemir F. M., GÜR C., Bayav İ., Genç A.
Molecular Biology Reports, vol.49, no.10, pp.9641-9649, 2022 (SCI-Expanded)
- XIV. **Chemopreventive effects of hesperidin against paclitaxel-induced hepatotoxicity and nephrotoxicity via amendment of Nrf2/HO-1 and caspase-3/Bax/Bcl-2 signaling pathways**
GÜR C., Kandemir F. M., ÇAĞLAYAN C., Satıcı E.
Chemico-Biological Interactions, vol.365, 2022 (SCI-Expanded)
- XV. **Protective effect of naringin against oxaliplatin-induced peripheral neuropathy in rats: A behavioral and molecular study**
Semis H. S., Kandemir F. M., ÇAĞLAYAN C., Kaynar O., Genç A., ARIKAN S.
Journal of Biochemical and Molecular Toxicology, vol.36, no.9, 2022 (SCI-Expanded)
- XVI. **The solvent-controlled regioselective synthesis of 3-amino-5-aryl-rhodanines as novel inhibitors of human carbonic anhydrase enzymes**
Ozer E. B., ÇAĞLAYAN C., Bayindir S.
Tetrahedron, vol.120, 2022 (SCI-Expanded)
- XVII. **Neuroprotective effects of 18 β -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., Darendelioğlu E.
Metabolic Brain Disease, vol.37, no.6, pp.1931-1940, 2022 (SCI-Expanded)
- XVIII. **Hesperidin Attenuates Oxidative Stress, Inflammation, Apoptosis, and Cardiac Dysfunction in Sodium Fluoride-Induced Cardiotoxicity in Rats**
Varışlı B., Darendelioğlu E., ÇAĞLAYAN C., Kandemir F. M., Ayna A., Genç A., Kandemir Ö.

Cardiovascular Toxicology, vol.22, no.8, pp.727-735, 2022 (SCI-Expanded)

- XIX. **Neuromodulatory effects of hesperidin against sodium fluoride-induced neurotoxicity in rats: Involvement of neuroinflammation, endoplasmic reticulum stress, apoptosis and autophagy**
Yıldız M. O., Çelik H., ÇAĞLAYAN C., Kandemir F. M., GÜR C., Bayav İ., Genç A., Kandemir Ö.
NeuroToxicology, vol.90, pp.197-204, 2022 (SCI-Expanded)
- XX. **Neuroprotective effects of carvacrol against cadmium-induced neurotoxicity in rats: role of oxidative stress, inflammation and apoptosis**
Yıldız M. O., Çelik H., ÇAĞLAYAN C., Genç A., Doğan T., Satıcı E.
Metabolic Brain Disease, vol.37, no.4, pp.1259-1269, 2022 (SCI-Expanded)
- XXI. **Protective effects of rutin against deltamethrin-induced hepatotoxicity and nephrotoxicity in rats via regulation of oxidative stress, inflammation, and apoptosis**
KÜÇÜKLER S., Kandemir F. M., ÖZDEMİR S., ÇOMAKLI S., ÇAĞLAYAN C.
Environmental Science and Pollution Research, vol.28, no.44, pp.62975-62990, 2021 (SCI-Expanded)
- XXII. **Hesperidin protects liver and kidney against sodium fluoride-induced toxicity through anti-apoptotic and anti-autophagic mechanisms**
ÇAĞLAYAN C., Kandemir F. M., Darendelioğlu E., KÜÇÜKLER S., Ayna A.
Life Sciences, vol.281, 2021 (SCI-Expanded)
- XXIII. **Morin protects against acrylamide-induced neurotoxicity in rats: an investigation into different signal pathways**
GÜR C., Kandemir F. M., Darendelioğlu E., ÇAĞLAYAN C., KÜÇÜKLER S., Kandemir O., İLERİTÜRK M.
Environmental Science and Pollution Research, vol.28, no.36, pp.49808-49819, 2021 (SCI-Expanded)
- XXIV. **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., Kandemir F. M.
Environmental Toxicology, vol.36, no.8, pp.1600-1617, 2021 (SCI-Expanded)
- XXV. **Modulatory effects of carvacrol against cadmium-induced hepatotoxicity and nephrotoxicity by molecular targeting regulation**
Kandemir F. M., ÇAĞLAYAN C., Darendelioğlu E., KÜÇÜKLER S., İzol E., Kandemir Ö.
Life Sciences, vol.277, 2021 (SCI-Expanded)
- XXVI. **The effects of chrysin and naringin on cyclophosphamide-induced erythrocyte damage in rats: biochemical evaluation of some enzyme activities in vivo and in vitro**
Temel Y., ÇAĞLAYAN C., Ahmed B. M., Kandemir F. M., Çiftci M.
Naunyn-Schmiedeberg's Archives of Pharmacology, vol.394, no.4, pp.645-654, 2021 (SCI-Expanded)
- XXVII. **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., YILDIRIM 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)
- XXVIII. **Attenuation of sodium arsenite-induced cardiotoxicity and neurotoxicity with the antioxidant, anti-inflammatory, and antiapoptotic effects of hesperidin**
Kuzu M., Kandemir F. M., YILDIRIM S., ÇAĞLAYAN C., KÜÇÜKLER S.
Environmental Science and Pollution Research, vol.28, no.9, pp.10818-10831, 2021 (SCI-Expanded)
- XXIX. **Silymarin alleviates docetaxel-induced central and peripheral neurotoxicity by reducing oxidative stress, inflammation and apoptosis in rats**
Yardım A., KÜÇÜKLER S., ÖZDEMİR S., ÇOMAKLI S., ÇAĞLAYAN C., Kandemir F. M., Çelik H.
Gene, vol.769, 2021 (SCI-Expanded)
- XXX. **Protective Effects of Curcumin Against Paclitaxel-Induced Spinal Cord and Sciatic Nerve Injuries in Rats**
Yardım A., Kandemir F. M., ÇOMAKLI S., ÖZDEMİR S., ÇAĞLAYAN C., KÜÇÜKLER S., Çelik H.
Neurochemical Research, vol.46, no.2, pp.379-395, 2021 (SCI-Expanded)
- XXXI. **Neuroprotective effect of chrysin on isoniazid-induced neurotoxicity via suppression of oxidative stress, inflammation and apoptosis in rats**

- Çelik H., KÜÇÜKLER S., ÇOMAKLI S., ÇAĞLAYAN C., ÖZDEMİR S., Yardım A., Karaman M., Kandemir F. M. *NeuroToxicology*, vol.81, pp.197-208, 2020 (SCI-Expanded)
- XXXII. **Morin attenuates acrylamide-induced testicular toxicity in rats by regulating the NF-κB, 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)
- XXXIII. **Zingerone attenuates vancomycin-induced hepatotoxicity in rats through regulation of oxidative stress, inflammation and apoptosis**
KÜÇÜKLER S., Darendelioğlu E., ÇAĞLAYAN C., Ayna A., YILDIRIM S., Kandemir F. M. *Life Sciences*, vol.259, 2020 (SCI-Expanded)
- XXXIV. **Protective effects of morin against acrylamide-induced hepatotoxicity and nephrotoxicity: A multi-biomarker approach**
Kandemir F. M., YILDIRIM S., KÜÇÜKLER S., ÇAĞLAYAN C., Darendelioğlu E., Dortbudak M. B. *Food and Chemical Toxicology*, vol.138, 2020 (SCI-Expanded)
- XXXV. **Inhibition effects of some pesticides and heavy metals on carbonic anhydrase enzyme activity purified from horse mackerel (*Trachurus trachurus*) gill tissues**
ÇAĞLAYAN C., Taslimi P., Türk C., GÜLÇİN İ., Kandemir F. M., Demir Y., BEYDEMİR Ş. *Environmental Science and Pollution Research*, vol.27, no.10, pp.10607-10616, 2020 (SCI-Expanded)
- XXXVI. **Protective effect of rutin on mercuric chloride-induced reproductive damage in male rats**
Kandemir F. M., ÇAĞLAYAN C., Aksu E. H., YILDIRIM S., KÜÇÜKLER S., GÜR C., Eser G. *Andrologia*, vol.52, no.3, 2020 (SCI-Expanded)
- XXXVII. **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., ÇAĞLAYAN C., ÖZDEMİR S., ÇOMAKLI S., KÜÇÜKLER S., Yardım A. *Molecular Biology Reports*, vol.47, no.3, pp.2023-2034, 2020 (SCI-Expanded)
- XXXVIII. **Protective effect of chrysin on cyclophosphamide-induced hepatotoxicity and nephrotoxicity via the inhibition of oxidative stress, inflammation, and apoptosis**
Temel Y., KÜÇÜKLER S., YILDIRIM S., ÇAĞLAYAN C., Kandemir F. M. *Naunyn-Schmiedeberg's Archives of Pharmacology*, vol.393, no.3, pp.325-337, 2020 (SCI-Expanded)
- XXXIX. **Morin attenuates ifosfamide-induced neurotoxicity in rats via suppression of oxidative stress, neuroinflammation and neuronal apoptosis**
Çelik H., KÜÇÜKLER S., ÇOMAKLI S., ÖZDEMİR S., ÇAĞLAYAN C., Yardım A., Kandemir F. M. *NeuroToxicology*, vol.76, pp.126-137, 2020 (SCI-Expanded)
- XL. **Purification and characterization of the carbonic anhydrase enzyme from horse mackerel (*Trachurus trachurus*) muscle and the impact of some metal ions and pesticides on enzyme activity**
ÇAĞLAYAN C., Taslimi P., Türk C., Kandemir F. M., Demir Y., GÜLÇİN İ. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, vol.226, 2019 (SCI-Expanded)
- XLI. **Rutin ameliorates mercuric chloride-induced hepatotoxicity in rats via interfering with oxidative stress, inflammation and apoptosis**
ÇAĞLAYAN C., Kandemir F. M., Darendelioğlu E., YILDIRIM S., KÜÇÜKLER S., Dortbudak M. B. *Journal of Trace Elements in Medicine and Biology*, vol.56, pp.60-68, 2019 (SCI-Expanded)
- XLII. **The effects of zingerone against vancomycin-induced lung, liver, kidney and testis toxicity in rats: The behavior of some metabolic enzymes**
ÇAĞLAYAN C., Taslimi P., Demir Y., KÜÇÜKLER S., Kandemir F. M., GÜLÇİN İ. *Journal of Biochemical and Molecular Toxicology*, vol.33, no.10, 2019 (SCI-Expanded)
- XLIII. **Palliative effect of curcumin on doxorubicin-induced testicular damage in male rats**
Aksu E. H., Kandemir F. M., YILDIRIM S., KÜÇÜKLER S., Dortbudak M. B., ÇAĞLAYAN C., Benzer F. *Journal of Biochemical and Molecular Toxicology*, vol.33, no.10, 2019 (SCI-Expanded)
- XLIV. **The green synthesis and molecular docking of novel N-substituted rhodanines as effective inhibitors for carbonic anhydrase and acetylcholinesterase enzymes**
Bayindir S., ÇAĞLAYAN C., Karaman M., GÜLÇİN İ.

Bioorganic Chemistry, vol.90, 2019 (SCI-Expanded)

- XLV. **The effects of naringin on different cyclophosphamide-induced organ toxicities in rats: investigation of changes in some metabolic enzyme activities**
ÇAĞLAYAN C.
Environmental Science and Pollution Research, vol.26, no.26, pp.26664-26673, 2019 (SCI-Expanded)
- XLVI. **Protective effect of morin on doxorubicin-induced hepatorenal toxicity in rats**
Kuzu M., YILDIRIM S., Kandemir F. M., KÜÇÜKLER S., ÇAĞLAYAN C., Türk E., Dörtbudak M. B.
Chemico-Biological Interactions, vol.308, pp.89-100, 2019 (SCI-Expanded)
- XLVII. **Protective effects of zingerone on cisplatin-induced nephrotoxicity in female rats**
Kandemir F. M., YILDIRIM S., ÇAĞLAYAN C., KÜÇÜKLER S., Eser G.
Environmental Science and Pollution Research, vol.26, no.22, pp.22562-22574, 2019 (SCI-Expanded)
- XLVIII. **Rutin protects mercuric chloride-induced nephrotoxicity via targeting of aquaporin 1 level, oxidative stress, apoptosis and inflammation in rats**
ÇAĞLAYAN C., Kandemir F. M., YILDIRIM S., KÜÇÜKLER S., Eser G.
Journal of Trace Elements in Medicine and Biology, vol.54, pp.69-78, 2019 (SCI-Expanded)
- XLIX. **The antidiabetic and anticholinergic effects of chrysin on cyclophosphamide-induced multiple organ toxicity in rats: Pharmacological evaluation of some metabolic enzyme activities**
Taslimi P., Kandemir F. M., Demir Y., İLERİTÜRK M., Temel Y., ÇAĞLAYAN C., GÜLÇİN İ.
Journal of Biochemical and Molecular Toxicology, vol.33, no.6, 2019 (SCI-Expanded)
- L. **Protective Effect of Hesperidin on Sodium Arsenite-Induced Nephrotoxicity and Hepatotoxicity in Rats**
Türk E., Kandemir F. M., YILDIRIM S., ÇAĞLAYAN C., KÜÇÜKLER S., Kuzu M.
Biological Trace Element Research, vol.189, no.1, pp.95-108, 2019 (SCI-Expanded)
- LI. **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., Taslimi P., Kandemir F. M., GÜLÇİN İ.
Journal of Food Biochemistry, vol.43, no.2, 2019 (SCI-Expanded)
- LII. **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., KÜÇÜKLER S., ÇOMAKLI S., ÇAĞLAYAN C.
Archives of Physiology and Biochemistry, vol.124, no.5, pp.448-457, 2018 (SCI-Expanded)
- LIII. **Preventive effects of hesperidin on diabetic nephropathy induced by streptozotocin via modulating TGF- β 1 and oxidative DNA damage**
Kandemir F. M., Ozkaraca M., KÜÇÜKLER S., ÇAĞLAYAN C., HANEDAN B.
Toxin Reviews, vol.37, no.4, pp.287-293, 2018 (SCI-Expanded)
- LIV. **Morin attenuates doxorubicin-induced heart and brain damage by reducing oxidative stress, inflammation and apoptosis**
Kuzu M., Kandemir F. M., YILDIRIM S., KÜÇÜKLER S., ÇAĞLAYAN C., Türk E.
Biomedicine and Pharmacotherapy, vol.106, pp.443-453, 2018 (SCI-Expanded)
- LV. **Novel amides of 1,1-bis-(carboxymethylthio)-1-arylethanes: Synthesis, characterization, acetylcholinesterase, butyrylcholinesterase, and carbonic anhydrase inhibitory properties**
Taslimi P., Osmanova S., ÇAĞLAYAN C., Turkan F., Sardarova S., Farzaliyev V., Sujayev A., Sadeghian N., GÜLÇİN İ.
Journal of Biochemical and Molecular Toxicology, vol.32, no.9, 2018 (SCI-Expanded)
- LVI. **Therapeutic efficacy of zingerone against vancomycin-induced oxidative stress, inflammation, apoptosis and aquaporin 1 permeability in rat kidney**
Kandemir F. M., YILDIRIM S., KÜÇÜKLER S., ÇAĞLAYAN C., Mahamadu A., Dörtbudak M. B.
Biomedicine and Pharmacotherapy, vol.105, pp.981-991, 2018 (SCI-Expanded)
- LVII. **Naringin protects against cyclophosphamide-induced hepatotoxicity and nephrotoxicity through modulation of oxidative stress, inflammation, apoptosis, autophagy, and DNA damage**
ÇAĞLAYAN C., Temel Y., Kandemir F. M., YILDIRIM S., KÜÇÜKLER S.
Environmental Science and Pollution Research, vol.25, no.21, pp.20968-20984, 2018 (SCI-Expanded)

- LVIII. 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., ÇAĞLAYAN C., Kandemir F. M., YILDIRIM S., KÜÇÜKLER S., Kılınc M. A., SAĞLAM Y. S.
Biomedicine and Pharmacotherapy, vol.102, pp.517-530, 2018 (SCI-Expanded)
- LIX. Synthesis and discovery of potent carbonic anhydrase, acetylcholinesterase, butyrylcholinesterase, and α -glycosidase enzymes inhibitors: The novel N,N'-bis-cyanomethylamine and alkoxyethylamine derivatives**
Taslimi P., ÇAĞLAYAN C., Farzaliyev V., Nabiyev O., Sujayev A., Turkan F., Kaya R., GÜLÇİN İ.
Journal of Biochemical and Molecular Toxicology, vol.32, no.4, 2018 (SCI-Expanded)
- LX. Curcumin ameliorates doxorubicin-induced cardiotoxicity by abrogation of inflammation, apoptosis, oxidative DNA damage, and protein oxidation in rats**
Benzer F., Kandemir F. M., Ozkaraca M., KÜÇÜKLER S., ÇAĞLAYAN C.
Journal of Biochemical and Molecular Toxicology, vol.32, no.2, 2018 (SCI-Expanded)
- LXI. The toxicological effects of some avermectins on goat liver carbonic anhydrase enzyme**
ÇAĞLAYAN C., GÜLÇİN İ.
Journal of Biochemical and Molecular Toxicology, vol.32, no.1, 2018 (SCI-Expanded)
- LXII. The impact of some natural phenolic compounds on carbonic anhydrase, acetylcholinesterase, butyrylcholinesterase, and α -glycosidase enzymes: An antidiabetic, anticholinergic, and antiepileptic study**
Taslimi P., ÇAĞLAYAN C., GÜLÇİN İ.
Journal of Biochemical and Molecular Toxicology, vol.31, no.12, 2017 (SCI-Expanded)
- LXIII. 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**
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- Çağlayan C., Project Supported by Higher Education Institutions, Nöroblastoma (SH-SY5Y) Hücrelerinde Bisfenol-A Kaynaklı Oksidatif Stres ve Apoptoza Karşı Zingeronun Koruyucu Etkilerinin Araştırılması, 2023 - 2025
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- Çağlayan C., TUBITAK Project, Ratlarda Vinkristin İle Oluşturulan Karaciğer Toksikitesi Üzerine Bingöl Arı Sütünün Pi3k/Akt/Mtor Sinyal Yolağı Aracılı Endoplazmik Retikulum Stresi, Apoptozis ve Otofaji Üzerindeki Etkilerinin Araştırılması, 2022 - 2023
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