

## Assoc. Prof. BETÜL ÇİÇEK

### Personal Information

**Email:** bcicek@erzincan.edu.tr

**Web:** <https://avesis.ebyu.edu.tr/bcicek>

### International Researcher IDs

ORCID: 0000-0003-1395-1326

Publons / Web Of Science ResearcherID: A-6713-2018

Yoksis Researcher ID: 201763

### Education Information

Doctorate, Ataturk University, Tıp Fakültesi, Turkey 2016 - 2020

### Research Areas

Human Physiology

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

- I. **Taxifolin as a novel therapeutic agent for epileptic seizures induced by caffeine-induced oxidative stress in rats.**  
YAŞAR H., ALTUNER D., Bulut S., ÇİÇEK B., GÜRSUL C., KUZUCU M., SÜLEYMAN H.  
Advances in clinical and experimental medicine : official organ Wroclaw Medical University, vol.33, no.8, pp.805-815, 2024 (SCI-Expanded)
- II. **Morinda citrifolia protective effects on paclitaxel-induced testis parenchyma toxicity: An experimental study**  
GENÇ S., ÇİÇEK B., Yeni Y., KUZUCU M., HACİMÜFTÜOĞLU A., BOLAT İ., YILDIRIM S., Zaker H., Zachariou A., Sofikitis N., et al.  
Reproductive Toxicology, vol.127, 2024 (SCI-Expanded)
- III. **AuNPs with Cynara scolymus leaf extracts rescue arsenic-induced neurobehavioral deficits and hippocampal tissue toxicity in Balb/c mice through D1R and D2R activation**  
ÇİÇEK B., HACİMÜFTÜOĞLU A., Yeni Y., KUZUCU M., GENÇ S., Cetin A., YAVUZ E., Danisman B., LEVENT A., ÖZDOKUR K. V., et al.  
Environmental Toxicology and Pharmacology, vol.107, 2024 (SCI-Expanded)
- IV. **Effects of benidipine, paracetamol, and their combination on postoperative and normal tissue pain thresholds.**  
Bedir Z., Ozkaloglu Erdem K. T., Doymus O., SÜLEYMAN H., YAVUZER B., ÇİÇEK B., ALTUNER D., MAMMADOV R., Yilmaz M., ÇOBAN T. A., et al.  
Frontiers in pharmacology, vol.14, pp.1326128, 2024 (SCI-Expanded)
- V. **Virtual insights into the quercetin- Melampsora lini-derived effector AvrM14 interaction: An In silico exploration of plant defense mechanisms**  
Shadidizaji A., Tolga Cinisli K., WARDA M. A. A., ÇİÇEK B., Hacimuftoglu A.  
Physiological and Molecular Plant Pathology, vol.129, 2024 (SCI-Expanded)

- VI. **Trigonelline alkaloid is effective in preventing doxorubicin-induced lung damage**  
USLU H., ATILA USLU G., ÇIÇEK B., BOLAT İ., YILDIRIM S.  
Archives of Physiology and Biochemistry, 2024 (SCI-Expanded)
- VII. **Syringic acid guards against indomethacin-induced gastric ulcer by alleviating inflammation, oxidative stress and apoptosis**  
FERAH OKKAY I., OKKAY U., ÇIÇEK B., KARATAŞ Ö., Yılmaz A., Yesilyurt F., HACİMÜFTÜOĞLU A.  
Biotechnic and Histochemistry, vol.99, no.3, pp.147-156, 2024 (SCI-Expanded)
- VIII. **Flavonoid-Rich Sambucus nigra Berry Extract Enhances Nrf2/HO-1 Signaling Pathway Activation and Exerts Antiulcerative Effects In Vivo**  
ÇIÇEK B., DANIŞMAN B., YILDIRIM S., YÜCE N., Nikitovic D., BOLAT İ., KUZUCU M., Ceyran E., Bardas E., Golokhvast K. S., et al.  
International Journal of Molecular Sciences, vol.24, no.20, 2023 (SCI-Expanded)
- IX. **Protective effect of melatonin and ascorbic acid combination on sepsis-induced lung injury: An Experimental study**  
ÜSTÜNDAĞ H., DEMİR Ö., ÇIÇEK B., HUYUT M. T., YÜCE N., Tavacı T.  
Clinical and Experimental Pharmacology and Physiology, vol.50, no.8, pp.634-646, 2023 (SCI-Expanded)
- X. **Chlorogenic Acid Attenuates Doxorubicin-Induced Oxidative Stress and Markers of Apoptosis in Cardiomyocytes via Nrf2/HO-1 and Dityrosine Signaling**  
ÇIÇEK B., HACİMÜFTÜOĞLU A., Yeni Y., DANIŞMAN B., ÖZKARACA M., Mokhtare B., Kantarci M., Spanakis M., Nikitovic D., Lazopoulos G., et al.  
Journal of Personalized Medicine, vol.13, no.4, 2023 (SCI-Expanded)
- XI. **Carnosic Acid Ameliorates Indomethacin-Induced Gastric Ulceration in Rats by Alleviating Oxidative Stress and Inflammation**  
DANIŞMAN B., ÇIÇEK B., YILDIRIM S., BOLAT İ., Kantar D., Golokhvast K. S., Nikitovic D., Tsatsakis A., TAGHIZADEHGHALEHJOUGHİ A.  
Biomedicines, vol.11, no.3, 2023 (SCI-Expanded)
- XII. **Carvacrol prevents acrylamide-induced oxidative and inflammatory liver damage and dysfunction in rats**  
Cerrah S., ÖZÇIÇEK F., GÜNDOĞDU B., ÇIÇEK B., ÇOBAN T. A., SÜLEYMAN B., ALTUNER D., Bulut S., SÜLEYMAN H.  
Frontiers in Pharmacology, vol.14, 2023 (SCI-Expanded)
- XIII. **Effect of anakinra, tocilizumab, and the combination thereof on bladder ischemia-reperfusion damage in albino Wistar-type rats Efecto de la anakinra, el tocilizumab y la combinación de ambos sobre el daño por isquemia-reperfusión vesical en ratas albinas tipo Wistar**  
BİÇER Ş., SÜLEYMAN B., MAMMADOV R., Yavuzer B., ÇIÇEK B., ALTUNER D., ÇOBAN T. A., SÜLEYMAN H.  
Investigacion Clinica (Venezuela), vol.64, no.3, pp.368-378, 2023 (SCI-Expanded)
- XIV. **Artichoke (Cynara Scolymus) Methanolic Leaf Extract Alleviates Diethylnitrosamine-Induced Toxicity in BALB/c Mouse Brain: Involvement of Oxidative Stress and Apoptotically Related Klotho/PPARγ Signaling**  
ÇIÇEK B., GENÇ S., Yeni Y., KUZUCU M., Cetin A., YILDIRIM S., BOLAT İ., Kantarci M., HACİMÜFTÜOĞLU A., Lazopoulos G., et al.  
Journal of Personalized Medicine, vol.12, no.12, 2022 (SCI-Expanded)
- XV. **Neuroprotective effect of bromelain in 6-hydroxydopamine induced in vitro model of Parkinson's disease**  
FERAH OKKAY I., OKKAY U., ÇIÇEK B., Yılmaz A., Yesilyurt F., Mendil A. S., HACİMÜFTÜOĞLU A.  
MOLECULAR BIOLOGY REPORTS, vol.48, no.12, pp.7711-7717, 2021 (SCI-Expanded)
- XVI. **Achillea millefolium alleviates testicular damage in paclitaxel-intoxicated rats via attenuation of testicular oxido-inflammatory stress and apoptotic responses.**  
OKKAY U., FERAH OKKAY I., ÇIÇEK B., AYDIN İ. Ç., Ertugrul M. S., Bayram C., Senyayla S., Sezen S., Mendil A. S., GÜVEN L., et al.  
Andrologia, vol.53, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Ameliorating effect of S-Allyl cysteine (Black Garlic) on 6-OHDA mediated neurotoxicity in SH-SY5Y cell line**  
Yeni Y., ÇİÇEK B., YILDIRIM S., BOLAT İ., HACİMÜFTÜOĞLU A.  
Toxicology Reports, vol.13, 2024 (Scopus)
- II. **Protective Effect of Adenosine Triphosphate against 5-Fluorouracil-Induced Oxidative Ovarian Damage in vivo**  
Ozer M., Ince S., ALTUNER D., SÜLEYMAN Z., ÇİÇEK B., GÜLABOĞLU M., Mokhtare B., GÜRSUL C., SÜLEYMAN H.  
Asian Pacific Journal of Cancer Prevention, vol.24, no.3, pp.1007-1013, 2023 (Scopus)
- III. **Beneficial Effects of Achillea Millefolium and Aesculum Hippocastanum Extracts on Glutamate Excitotoxicity in the Primary Cultured Neurons.**  
FERAH I., OKKAY U., ÇİÇEK B., Yeşilyurt F., YILMAZ A., HACİMÜFTÜOĞLU A.  
Advances in Clinical Toxicology, vol.4, no.4, 2019 (Peer-Reviewed Journal)
- IV. **Glutamat Eksitotoksitesisi Oluşturulan Primer Kortikal Nöron Kültürlerinde Parietinin Nöroprotektif Etkisinin İncelenmesi**  
GÜNDOĞDU G., Taghizadehghalehjouhi A., ÇİÇEK B., Senol O., Nalci K. a., DEMİRKAYA A. K., Hacimuftuoglu A.  
Atatürk Üniversitesi Veteriner Bilimleri Dergisi, vol.13, no.2, pp.165-173, 2018 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Apocynin Counteracts 6-OHDA Induced Neurotoxicity in SHSY5Y Cells and Modulates Oxidoinflammatory Responses**  
ÇİÇEK B., HAYME S.  
3rd International Congress of Health Sciences and Biotechnology-Bilecik, 3 - 07 October 2022
- II. **Therapeutic potential of bromelain in 6-hydroxydopamine rat model of parkinson's disease**  
Çiçek B., Gül M., Taghizadehghale A., Okkay U., Yıldırım S., Ferah Okkay I., Ertuğrul M. S., Aydın İ. Ç., Bayram C., Arslan Y. K., et al.  
33rd ECNP, 12 - 15 September 2020, pp.438-439
- III. **Investigation of Wound Healing and Antimicrobial Effects of ZnO Nanoparticles Synthesized Using Mentha longifolia L. Essential Oil**  
SEZEN S., NALCI K. A., DEMİR A. Y., BAYRAM C., ÇİÇEK B., OKKAY U., GÜLLÜCE M., HACİMÜFTÜOĞLU A.  
Uluslararası Biyoteknoloji Kongresi, 5 - 07 March 2020
- IV. **Determination of Glutathione Reductase Enzyme Activity in Melatonin Administered Rats's Heart Tissue**  
ÇİÇEK B., ŞENTÜRK E., GÜL M., ÇELEBİ F., ÜSTÜNDAĞ H., ŞENTÜRK M.  
45. Ulusal Fizyoloji Kongresi, Aydın, Turkey, 31 October - 03 November 2019, vol.227
- V. **Bromelain Makes Glioblastoma Multiforme Cells Susceptible to the Temozolomide Cytotoxicity by Affecting the Activities of Carbonic Anhydrase and Some Antioxidant Enzymes**  
ÇİÇEK B., GÜL M., Taghizadehghalehjouhi A., OKKAY U., durmuş u., yeşilyurt f., Abd El Aty M., HACİMÜFTÜOĞLU A.  
45. Ulusal Fizyoloji Kongresi, Aydın, Turkey, 31 October - 03 November 2019, vol.227
- VI. **Determination of Acetylcholinesterase Enzyme Activity in Liver Tissues of Rats with Hyperthyroidism**  
ÇİÇEK B., ÇELEBİ F., GÜL M., ŞENTÜRK M., ÜSTÜNDAĞ H., ŞENTÜRK E.  
45. Ulusal Fizyoloji Kongresi, Aydın, Turkey, 31 October - 03 November 2019, vol.227
- VII. **PYCNOGENOL HIGH DOSE DECREASED GLUTAMATE INDUCED TOXICITY: IN VITRO STUDY**  
ÇİÇEK B., TAGHIZADEHGHAE A., HACİMÜFTÜOĞLU A.  
FENS 2019 regional meeting, Belgrade, Serbia, 10 - 13 July 2019
- VIII. **Gliserol Guaiacol maddesinin nöron koruyucu ve antikanser etkilerinin araştırılması: in vitro deney**  
ÇİÇEK B., TAGHIZADEHGHAE A., ŞENTÜRK E., ŞENTÜRK M., GÜL M., HACİMÜFTÜOĞLU A.

17. ULUSAL SİNİRBİLİM KONGRESİ, Turkey, 4 - 07 April 2019

- IX. **Pirogallol maddesinin nöron koruyucu ve antikanser etkilerinin araştırılması: in vitro çalışma**  
ÇİÇEK B., TAGHİZADEHGHLE A., ŞENTÜRK E., ŞENTÜRK M., HACİMÜFTÜOĞLU A., GÜL M.  
17. ULUSAL SİNİRBİLİM KONGRESİ, Turkey, 4 - 07 April 2019
- X. **Akut Kobalt Toksikasyonunun Karaciğer, Böbrek Ve Kalp Dokularında Oluşturduğu Oksidatif Stres Üzerine Likopenin Koruyucu Etkileri,**  
BARDAŞ ÖZKAN E., ÇİÇEK B., ARSLAN Y. K.  
3. Uluslararası sağlık bilimleri kongresi, 29 Kasım-1 Aralık, Ankara, 2018., Ankara, Turkey, 29 November - 01 December 2018
- XI. **Is Oxytocin Proper for Cancer Adjuvant Therapy?**  
Taghizadehghalehjoughi A., ÇİÇEK B., HACİMÜFTÜOĞLU A., GÜL M.  
2nd International Cell Death Research Congress, 1 - 04 November 2018
- XII. **E Vitamini ve Selenyumun Yüksek Dozda Prednizolon Uygulanan Sıçanların Eritrositlerindeki Oksidan - Antioksidan Denge Üzerine Koruyucu Etkisi**  
ÇİÇEK B., BARDAŞ E., ARSLAN Y. K.  
3. Uluslararası Sağlık bilimleri kongresi, 29 November - 01 December 2018
- XIII. **Momordica and Pycnogenol Can Tolerate Imazamox Induced Toxicity in L929 Cells Line: In Vitro Study**  
TAGHİZADEHGHLE A., ÇİÇEK B.  
2nd International Cell Death Research Congress, 1 - 04 November 2018
- XIV. **ACTH on HT29 cell line can be tolerate by nifedipine: in vitro study**  
TAGHİZADEHGHLEHJOUGHİ A., ÇİÇEK B., yetim z.  
3RD INTERNATIONAL CONGRESS OF TURKISH NEUROENDOCRINOLOGY SOCIETY, 29 May - 01 June 2018
- XV. **Ca channel blockers kill neuroblastoma but effectively protect neuron cells**  
TAGHİZADEHGHLEHJOUGHİ A., ÇİÇEK B.  
7TH WORLD CONGRESS, 20 - 23 April 2018
- XVI. **ANTICANCER AND ANTI-APOPTOTIC MECHANISMS OF ZN<sub>2</sub> LOADED FE<sub>3</sub>O<sub>4</sub>-SiO<sub>2</sub>-NH<sub>2</sub>- (ZINPYR-1) NANOCOMPOSITE IN SH-SY5Y NEUROBLASTOMA CELLS**  
GÜNDOĞDU G., DODURGA Y., DEMİRKAYA MİLOĞLU F., SEÇME M., ÇİÇEK B., polatdemir e., METİN Ö.  
2ND BRAIN RESEARCH SCHOOL, 6 - 12 November 2017
- XVII. **PROTECTIVE EFFECT OF INDOMETHACIN, LACIDIPINE AND OXCARBAZEPINE ON GLUTAMATE TOXICITY IN RAT OLFACTORY BULB: AN IN VITRO STUDY**  
Taghizadehghalehjoughi A., ÇİÇEK B., GÜNDOĞDU G., Hacimuftuoglu A.  
2ND BRAIN RESEARCH SCHOOL, 6 - 12 November 2017
- XVIII. **ASSOCIATION OF SERUM OMENTIN LEVELS WITH ST SEGMENT ELEVATION AND NON-ST SEGMENT ELEVATION ACUTE CORONARY SYNDROME**  
GÜNDOĞDU G., KOZA Y., ÇİÇEK B., DEMİRKAYA MİLOĞLU F., GÜNDOĞDU F.  
3 RD INTERNATIONAL MULTIDISCIPLINARY SYMPOSIUM ON DRUG RESEARCH AND DEVELOPMENT - DRD, 5 - 07 October 2017
- XIX. **'INVESTIGATION OF PROTECTIVE EFFECT OF PARIETIN AGAINST GLUTAMATE EXCITOTOXICITY IN PRIMARY CORTICAL NEURON CULTURE**  
GÜNDOĞDU G., Taghizadehghalehjoughi A., Senol O., ÇİÇEK B., Nalci K. a., Hacimuftuoglu A.  
ACTA PHYSIOLOGICA (FEPS 2017, VİYANA), 13 - 15 September 2017
- XX. **THE CYTOTOXIC AND GENOTOXIC EFFECTS OF DAIDZEIN IN MIA PACA-2 HUMAN PANCREATIC CARCINOMA CELLS.**  
GÜNDOĞDU G., DODURGA Y., ÇETİN M., SEÇME M., ÇİÇEK B.  
ACTA PHYSIOLOGICA (FEPS 2017 VİYANA), 13 - 15 September 2017
- XXI. **Investigation of protective effect of parietin against glutamat excitotoxicity in primary cortical neuron culture**  
GÜNDOĞDU G., Taghizadehghalehjoughi a., ŞENOL O., ÇİÇEK B., NALCI K. A., HACİMÜFTÜOĞLU A.  
FEPS 2017, 13 - 15 September 2017

- XXII. PROTECTIVE EFFECT OF ZN<sub>2</sub> LOADED FE<sub>3</sub>O<sub>4</sub>-SiO<sub>2</sub>-NH<sub>2</sub>- (ZINPYR-1) NANOCOMPOSITE ON GLUTAMATE EXERCISE TOXICITY IN PRIMARY CORTICAL NEURON CELL CULTURE'**  
GÜNDOĞDU G., DEMİRKAYA MİLOĞLU F., Nalci K. a., ÇİÇEK B., Taghizadehghalehjouhi A., polatdemir e., Hacimuftuoglu A.  
ACTA PHYSIOLOGICA (43. fizyoloji kongresi), 7 - 10 September 2017
- XXIII. THE CYTOTOXIC AND GENOTOXIC EFFECTS OF DAIDZEIN IN HT-29 HUMAN COLON ADENOCARCINOMA CELLS**  
GÜNDOĞDU G., DODURGA Y., ÇETİN M., SEÇME M., ÇİÇEK B.  
ACTA PHYSIOLOGICA (43. Fizyoloji Kongresi), 7 - 10 September 2017
- XXIV. INVESTIGATION OF EFFECTS OF RHEUM RIBES EXTRACT ON HUMAN DERMAL FIBROBLAST CELL LINE**  
GÜNDOĞDU G., gundogdu k, Nalci K. a., ÇİÇEK B., Senol O., YILMAZ TAŞCI Ş., Hacimuftuoglu A.  
ACTA PHYSIOLOGICA (43. Fizyoloji Kongresi), 7 - 10 September 2017
- XXV. DETERMINATION OF SERUM VISFATIN AND APELIN LEVELS IN ACUTE CORANARY SYNDROME PATIENTS AND DETECTION OF ASSOCIATION WITH CORONARY ARTERY DISEASE**  
GÜNDOĞDU G., KOZA Y., ÇİÇEK B., DEMİRKAYA MİLOĞLU F., GÜNDOĞDU F.  
ACTA PHYSIOLOGICA (43.Fizyoloji Kongresi), 7 - 10 September 2017

## **Metrics**

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