



CURRICULUM VITAE

| Name and Surname: | Mine ÇAĞLAYAN |
|-------------------|---------------|
| | |

Date of Birth: 1988

Academic Title: Assistant Professor

Work Address:

Email: mcaglayan@biruni.edu.tr

Area of Expertise: Health Sciences

Pharmaceutical Toxicology Pharmacology and Therapeutics

Professional Sciences

| Degree | Department/Program | University | Year | |
|----------------------|--|---------------------|------|--|
| Doctorate | FARMASÖTİK TOKSİKOLOJİ (DR) | İstanbul University | 2021 | |
| Master's Degree | FARMASÖTİK TOKSİKOLOJİ (YL) (TEZLİ) | İstanbul University | 2016 | |
| Bachelor's Degree | BİYOLOJİ BÖLÜMÜ | İstanbul University | 2012 | |

Master's Thesis Title (abstract attached) and Thesis Supervisor(s):

Bisfenol A'nın farklı hücre kültürlerinde DNA metilasyonu ve histon modifikasyonları üzerine etkilerinin araştırılması

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s): Bisfenol a ve analoglarının endoplazmik retikulum stresi üzerine etkilerinin hücre kültüründe incelenmesi

| Position Title | Workplace | Year |
|---------------------|-------------------|----------------|
| Assistant Professor | Biruni University | 2022-Continues |

Roles in Projects:

Gıda Boyası Tartrazin ve Gıda Emülgatörü P80'in Potansiyel Toksik Etkilerinin in vitro Değerlendirilmesi (2025 - Continues)

Endemik Verbascum degenii Hal. (Scrophulariaceae) Türünün LPS ileİndüklenen Akciğer Epitel Hücrelerinde Antiinflamatuar, Yara İyileştirici veHücresel Stres Üzerine Etkilerinin Araştırılması (2025 - Continues)

Yaygın Olarak Kullanılan Triazol Grubu Fungusit Penkonazolün Sitotoksik Etki Potansiyelinin Allium Cepa Test Sistemi Kullanılarak Araştırılması (2024 - Continues)

Nöroblastoma ve Prostat Kanser Hücrelerinde Gen Spesifik DNA Metilasyonu ve Histon Modifikasyonu Üzerine Bisfenol A'nın Etkileri (2015 - 2018)

Endokrin Sistem Üzerine Etkili Kimyasallarin Toksisitelerinde Histon Modifikasyonlarinin Rolü (2014 - 2016) Bisfenol A'nın Farklı Hücre Kültürlerinde DNA Metilasyonu ve Histon Modifikasyonları Üzerine Etkilerinin Endokrin Bozucu Kimyasalların Toksisitelerinde Epigenetik Mekanizmaların Rolü (2013 - 2015)

Administrative Duties:

Other Academic Position - Biruni University (2024 - Continues)

Other Academic Position - Biruni University (2023 - Continues)

Other Academic Position - Biruni University (2023 - Continues)

Awards:

First prize for poster presentation. Ozden S., Senyildiz M., Karaman E. F. Global and gene-spesific promoter DNA methylation profiles of bisphenol A in HepG2 cells. (2015)

Undergraduate and graduate level courses taught in the last two years (If offered, summer courses will also be added to the table):

| Academic Year | Semester | Course Name | Weekly Hours | | Number of |
|---------------|----------|---------------------------------|--------------|-----------|-----------|
| | | | Theoretical | Practical | Students |
| 2024 | Spring | MOLEKÜLER BİYOLOJİ VE YÖNTEMLER | | | |
| 2024 | Spring | Farmakogenomik | | | |
| 2024 | Fall | MOLEKÜLER BİYOLOJİ VE YÖNTEMLER | | | |
| 2024 | Fall | Farmakogenomik | | | |

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1. "The effect of neonicotinoid insecticides and triazole fungicides on prostate cancer progression via CYP enzymes, miRNAs, and TF-mediated disruption of steroidogenesis: An integrated in silico approach.", Toxicology and industrial health, 2025.
- A2. "Bioactive potential of Origanum heracleoticum L. essential oil: Chemical composition and its antimicrobial and anticancer properties", Journal of Essential Oil-Bearing Plants, 2025.
- A3. "In silico analysis to predict the carcinogenicity and mutagenicity of a group of triazole fungicides", İstanbul Journal of Pharmacy, 2024.
- A4. "Potential impacts of bisphenols on prostate cells: An overview of cytotoxicity, proliferation, oxidative stress, apoptosis, and ERstress response activation", Food and Chemical Toxicology, 2024.
- A5. "Alteration on global and genespesific DNA Methylation and global Histone Modifications in HepG2 Cells in Response to BPA", İstanbul Journal of Pharmacy, 2022.
- A6. "Alteration in Global DNA Methylation after Bisphenol A Exposure in MCF-7 Cells.", İstanbul Journal of Pharmacy, 2022.
- A7. "In Vitro Effects of Eicosapentaenoic and Docosahexaenoic Acid on the Vascular Tone of a Human Saphenous Vein: Influence of Precontractile Agents", Annals of Vascular Surgery, 2020.
- A8. "Global and region-specific post-transcriptional and post-translational modifications of bisphenol A in human prostate cancer cells", Environmental Pollution, 2019.
- A9. "Investigation of the genotoxic and cytotoxic effects of widely used neonicotinoid insecticides in HepG2 and SH-SY5Y cells", Toxicology and Industrial Health, 2018.
- A10. "DNA methylation analysis in rat kidney epithelial cells exposed to 3-MCPD and glycidol", Drug and Chemical Toxicology, 2017.
- A11. "Effects of BPA on global DNA methylation and global histone 3 lysine modifications in SH-SY5Y cells: An epigenetic mechanism linking the regulation of chromatin modifiying genes", Toxicology in Vitro, 2017.

B. Papers presented at international scientific meetings and published in proceedings:

- B1. "Bisphenol A and its analogs: Comparative study on the prostate cells (PNT1A and PC-3) via ER stress-mediated apoptosis", 57TH CONGRESS OF THE EUROPEAN SOCIETIES OF TOXICOLOGY, 2023.
- B2. "Global DNA Methylation and Global Histone 3 Lysine Modifications in SH-SY5Y Cells: An Epigenetic Mechanism Linking the Regulation of Chromatin Modifiying Genes.", 10th Congress of Toxicology in Developing Countries, 2022.

- B3. "Effects of Fumonisin B1 on Global DNA Methylationin HK-2 Cells.", 53th Congress of the European Societies of Toxicology, 2017.
- B4. "Effects of Zearalenoneon the Metabolic Pathways and its relation to the Epigenetic Mechanisms in HepG2 Cells.", 53th Congress of the European Societies of Toxicology, 2017.
- B5. "Toksikolojide Epigenetik Mekanizmalar: Endokrin Bozucu Kimyasallardan Bisfenol A", IV. Toksikoloji Sempozyumu, 2017.
- B6. "Alteration on DNA Metylation of Rassf1, CyclinD2 and p16 Genes and Global DNA Methylation and Histone Modifications in Human Hepatocarcinoma Cells in Response to BPA", 52th Congress of the European Societies of Toxicology, 2016.
- B7. "Global and region-specific post-transcriptional and post-translational modifications of bisphenol A in human prostate cancer cells", 52. congress of the european societies toxicology, 2016.
- B8. "Global and region-specific post-transcriptional and post-translational modifications of bisphenol A in human prostate cancer cells", 52nd Congress of the European Societies of Toxicology (EUROTOX 2016), 2016.
- B9. "Global and gene-spesific promoter DNA methylation profiles of bisphenol A in HepG2 cells", 9th Congress of the Turkish Society of Toxicology with the participation of the Hellenic Society of Toxicology, 2015.
- B10. "DNA Methylation Profiles of Bisphenol A in Human Neuroblastoma Cells.", 13th European ISSX Meeting, 2015.
- B11. "Does DNA Methylation From Epigenetic Mechanisms Play A Role in Personalized Medicine?", International Symposium on Advances in Predictive & Personalized Medicine (APPM2015)., 2015.
- B12. "The role of DNA methylation alterations in 3-MCDP and Glycidol induced toxicity in rat kidney epithelial cells.", 50th Congress of the European Societies of Toxicology, 2014.
- B13. "Alteration in Global DNA Methylation after Bisphenol A Exposure in MCF-7 cells.", 50th Congress of the European Societies of Toxicology, 2014.

E. Papers presented at national scientific meetings and published in proceedings:

E1. "Bitkisel İlaç Hammedelerinde Epigenetiğin Rolü: Gen Ekspresyonu ve mikroRNA'lar", XXII. Bitkisel İlaç Hammaddeleri Toplantısı, 2016.