



CURRICULUM VITAE

Name and Surname: Esra AYDEMİR AYAZ
Date of Birth: 1981
Academic Title: Associate Professor
Work Address:
Email: eaydemir@biruni.edu.tr
Area of Expertise: Engineering and Technology
Health Sciences
Natural Sciences

Degree	Department/Program	University	Year
Doctorate	BİYOTEKNOLOJİ (DR) (İNGİLİZCE)	Yeditepe University	2016
Master's Degree	BİYOTEKNOLOJİ (YL) (TEZLİ) (İNGİLİZCE)	Yeditepe University	2010
Bachelor's Degree			2004

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

Kordomada kanser kök hücre karakterizasyonu

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

Characterization of stem like cells in a new astroblastoma cell line

Position Title	Workplace	Year
Associate Professor	Biruni University	2020-Continues

Supervised Master's Theses:

1. The impact of thalidomide on immune checkpoints in dendritic cells (2024)
2. A survey of transcriptomic changes in the colon carcinoma model of HCT116 parental and CDK2-phospho-mutant EEf2 expressing cells under complete growth and nutrient deprivation (2022)

Roles in Projects:

Kordomalarda PD-L1 hedefli Kimerik Antijen Reseptörü Taşıyan Doğal Katil (PD-L1/CAR-NK) Hücre Terapisi (2019 - 2023)

Kordomada eEF2K Proteininin Rolünün Araştırılması (2018 - 2019)

Administrative Duties:

Deputy Institute Director - Biruni University (2024 - Continues)

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1. "Anti-cancer and immunomodulatory photodynamic therapy application of novel porphyrin derivatives", Journal of Drug Delivery Science and Technology, 2025.
- A2. "Improved Malignancy of Colon Cancer Cells at Gene Expression Level With Constitutive Activation of the Eukaryotic Elongation Factor 2 Under Nutrition-Deficient Conditions", Chemistry & Biodiversity, 2025.
- A3. "Immunomodulatory activity of metoclopramide HCl on murine macrophages Download PDF", Naunyn-Schmiedeberg's Archives of Pharmacology, 2024.
- A4. "Adjuvant Potential of Lionfish Venom on LPS Activated Mammalian Macrophages", International Journal of Peptide Research and Therapeutics, 2024.
- A5. "SYNERGISTIC EFFECT OF CURCUMIN AND ATIPRIMOD AS POTENT INHIBITORS OF STAT3 AND IL-6 RECEPTOR IN CHORDOMA CELLS", Mugla Journal of Science and Technology, 2024.
- A6. "Anti-Inflammatory Immunomodulatory Activity of Valacyclovir on the in Vitro Activated Mammalian Macrophages", Discovery Medicine, 2024.
- A7. "Significance of USP7 in Predicting Prognosis of Mammary Ductal Adenocarcinoma in the Turkish Population", Experimed, 2023.
- A8. "Synthesis, in vitro and in silico studies on novel 3-aryloxymethyl-5-[(2-oxo-2-arylethyl)sulfanyl]-1,2,4-triazoles and their oxime derivatives as potent inhibitors of mPGES-1", Journal of Molecular Structure, 2023.
- A9. "Impact of silencing eEF2K expression on the malignant properties of chordoma", Molecular Biology Reports, 2023.
- A10. "Investigating the Effects of Chordoma Cell-Derived Exosomes on the Tumorigenicity of Nucleus Pulposus Cells", JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE, 2023.
- A11. "Novel 1,2,4-triazoles derived from Ibuprofen: synthesis and in vitro evaluation of their mPGES-1 inhibitory and antiproliferative activity", Molecular Diversity, 2022.
- A12. "Repurposing of Alexidine Dihydrochloride as an Apoptosis Initiator and Cell Cycle Inhibitor in Human Pancreatic Cancer", Anti-Cancer Agents in Medicinal Chemistry, 2020.
- A13. "Inhibition of Migration, Invasion and Drug Resistance of Pancreatic Adenocarcinoma Cells – Role of Snail, Slug and Twist and Small Molecule Inhibitors", OncoTargets and Therapy, 2020.
- A14. "E-cadherin might be a stage-dependent modulator in aggressiveness in pancreatic cancer cells", Turkish Journal of Biology, 2020.
- A15. "Cumulus Cells Are Potential Candidates for Cell Therapy", International Institute of Anticancer Research, 2019.
- A16. "Distinctive role of dysregulated miRNAs in chordoma cancer stem-like cell maintenance", Experimental Cell Research, 2019.
- A17. "The effect of TWIST silencing in metastatic chordoma cells", Turkish Journal of Biology, 2018.
- A18. "Characterization of stem-like cells in a new astroblastoma cell line", Experimental Cell Research, 2017.
- A19. "MicroRNA expression profiling reveals the potential function of microRNA-31 in chordomas", Journal of Neuro-Oncology, 2013.
- A20. "Cancer Preventive Effects of Whole Cell Type Immunization against Mice Ehrlich Tumors", Asian Pacific Journal of Cancer Prevention, 2013.
- A21. "Characterization of cancer stem-like cells in chordoma", Journal of neurosurgery, 2012.
- A22. "The effects of chemotherapeutic agents on differentiated chordoma cells", Journal of Neurosurgery: Spine, 2011.
- A23. "Retinoic acid induced chordomas as a model of differential therapy", Saudi medical journal, 2009.

C. National/international books written or chapters in books:

C1. National/international books written:

- C1.1. "The Application of Electromagnetic Fields in Cancer", Cell Biology and Translational Medicine, 2023.
- C1.2. "Targeting Cancer Metabolism and Cell Cycle by Plant-Derived Compounds", Cell Biology and Translational Medicine, 2019.
- C1.3. "Cancer Stem Cells in Metastasis Therapy", Cell Biology and Translational Medicine, 2018.