



CURRICULUM VITAE

Name and Surname: Zihni Onur Çalışkaner
Academic Title: Assistant Professor
Work Address:
Email: zcaliskaner@biruni.edu.tr
Area of Expertise: Genomics
Molecular Biology and Genetics
Molecular Biology of Cancer
Temel Bilimler > Yaşam Bilimleri > Moleküler Biyoloji ve Genetik > Hücre Biyolojisi

Degree	Department/Program	University	Year
Doctorate	MOLEKÜLER BİYOLOJİ VE GENETİK (DR)	Gebze Technical University	2018
Master's Degree	MOLEKÜLER BİYOLOJİ VE GENETİK (YL) (TEZLİ)	Gebze Technical University	2013
Double Major Bachelor's Degree	MOLEKÜLER BİYOLOJİ VE GENETİK	İstanbul University	2009
Bachelor's Degree	BİYOLOJİ BÖLÜMÜ	İstanbul University	2009

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

Endoplazmik retikulum stresinin SIK2 yolağı üzerindeki etkisi

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

Dek gen ifadesinin multiple miyelom hücrelerine etkisinin araştırılması

Position Title	Workplace	Year
Assistant Professor	Biruni University	2022-Continues
Assistant Professor	Üsküdar University	2019-2022
Research Assistant		2011-2018

Supervised Master's Theses:

1. Yeni MBD2 inhibitör adaylarının in vitro sitotoksik etkilerinin araştırılması (2025)
2. Exploring the potential of drug repurposing against abnormally regulated cell-matrix interactions in the treatment of pancreatic cancer (2025)
3. MBD2 İnhibisyonunun Fibroblast Hücre Hattı Karakterine Etkilerinin Araştırılması (2025)

Roles in Projects:

1. *Epigenetik İlaç (Epi-Drug) Olarak Kullanılabilecek Yeni MBD2 İnhibitör Adaylarının İn Vitro Etkinliklerinin Araştırılması*, R&D Project of Group B, Çalışkaner Z. O. (Executive), 2023-2025.
2. *MBD2'nin Kimyasal Molekül Aracılı İnhibisyonunun HFF-1 Hücre Karakteri Üzerindeki Etkilerinin Araştırılması*, Emergency R&D Project of Group A, Çalışkaner Z. O., 2024-2025.
3. *Livin-Alfa Proteininin Stresli ve Stresiz Koşullardaki Etkileşim Partnerlerinin Bioid Yöntemi Kullanılarak Belirlenmesi*, TUBITAK Project, Çalışkaner Z. O., 2024-2025.
4. *DEK Ekspresyonu Modifiye Edilmiş RPMI 8226 Hücre Hattında CD138 Proteinin Analizi*, Project Supported by Higher Education Institutions, Çalışkaner Z. O., 2015-2016.
5. *Dek Gen İfadesinin Ekspresyonunun Multiple Miyeloma Hücrelerine Etkisinin Araştırılması*, TUBITAK Project, Çalışkaner Z. O., 2013-2015.
6. *Endoplazmik Retikulum Stresinin Karaciğer Hücrelerinde CREB Aracılı Glikoz ve Lipid Sentezine Etkisi*, Project Supported by Higher Education Institutions, Çalışkaner Z. O., 2011-2013.

Awards:

1. Genç Araştırmacı Ödülü (2017)
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PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1. Afif S., Abdollahi-esfahlani H., Çalışkaner Z. O., Adeli F., Meran A., Abbasi F., "Multi-stimuli responsive supramolecular chitosan nanogels via polyaniline/ β -cyclodextrin host-guest assembly for controlled drug delivery", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, vol. 740, 2026.
- A2. Durmuş Z., Ozdemir F., Çalışkaner Z. O., Maijenburg A. W., Durmuş A., Köferstein R., "Effect of the structural features of graphitic carbon nitride (g-C₃N₄) synthesized via thermal polycondensation of different precursors on the in vitro tumor cell cytotoxicity", *Diamond and Related Materials*, vol. 160, 2025.
- A3. Sevimoğlu T., Kızılpınar E., Çalışkaner Z. O., Zengin İ. N., "Uncovering potent natural phytochemicals targeting SARS-COV-2 spike protein variants: molecular dynamics insights", *Scientific Reports*, vol. 15, no. 1, pp. 37927, 2025.
- A4. Lekesiz R. T., Koca K. K., Kugu G., Çalışkaner Z. O., "Versatile functions of methyl-CpG-binding domain 2 (MBD2) in cellular characteristics and differentiation", *Molecular Biology Reports*, vol. 52, 2025.
- A5. Çalışkaner Z. O., "Evaluation of Emetogenic Mechanisms of Antineoplastic Drugs on 5-HT_{3A} Receptor Using a Structure-Based Computational Approach", *Journal of Clinical Practice and Research*, vol. 47, no. 3, pp. 262-271, 2025.
- A6. Sevimoğlu T., Çalışkaner Z. O., "Dissecting the Dual Drug Candidates Against Glioblastoma and Oligodendroglioma Through Integrated Transcriptome Analysis and Virtual Screening", *Cell Biochemistry and Biophysics*, 2025.
- A7. Özçelik E., Kalaycı A., Çelik B., Avcı A., Akyol H., Kılıç İ. B., Güzel T., Çetin M., Öztürk M. T., Çalışkaner Z. O. vd., "Doxorubicin induces prolonged DNA damage signal in cells overexpressing DEK isoform-2", *PLoS ONE*, vol. 17, no. 10, 2022.
- A8. Çalışkaner Z. O., "Computational discovery of novel inhibitory candidates targeting versatile transcriptional repressor MBD2", *JOURNAL OF MOLECULAR MODELING*, vol. 28, no. 10, 2022.
- A9. Çalışkaner Z. O., "Determination of binding potential of hcv protease inhibitors against to sars-cov-2 papain-like protease with computational docking", *Letters in Drug Design and Discovery*, vol. 18, no. 10, pp. 949-960, 2021.
- A10. Çalışkaner Z. O., Abdul Waheed A., Tuzlakoğlu Öztürk M., Oymak Y., Tazebay U. H., Akar M. N., Kandilci A., Özkan D., "Identification of novel TUBB1 variants in patients with macrothrombocytopenia", *TURKISH JOURNAL OF MEDICAL SCIENCES*, vol. 51, no. 2, pp. 490-500, 2021.
- A11. Baykara D., Pilavcı E., Meran M., Çalışkaner Z. O., "Antimicrobial properties and application of fig seed oil as an additive for chitosan-based films", *Ukrainian Food Journal*, vol. 10, no. 2, pp. 289-300, 2021.
- A12. Çalışkaner Z. O., Cakar T., Özçelik E., Özdilek A., Kim A. S., Dogan Ö., Bosompem A., Grosveld G., Saka B., Kandilci A., "Positive Normal and malignant plasma cells", *PLoS ONE*, vol. 12, no. 5, 2017.
- A13. Koç İ., Çalışkaner Z. O., Filiz E., Artuk L., Kenanoğlu R., "Application of data analysis in cold stress: A case study of *Nicotiana benthamiana*", *TURKISH JOURNAL OF BOTANY*, vol. 39, pp. 1021-1032, 2015.

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

- B1.** Çalışkaner Z. O., Prediction of RNA-binding Protein Sites of Prospective Pluripotent Stem Cell-related Circular RNAs, In: *Eurasia 5th International Scientific Research and Innovation Congress*, Ankara, Turkey, 2025.
- B2.** Gürer O. A., Çalışkaner Z. O., Investigating The Usage Potential of MBD2 Expression As A Biomarker in Certain Cancers, In: *1. Europe International Scientific Research and Innovation Congress (ISARC)*, Milan, Italy, 2025.
- B3.** Özdemir F., Çalışkaner Z. O., Evaluation of The Identified Somatic MBD2 Mutations and Their Biological Impacts, In: *Efes 2. International Scientific Research and Innovation Congress*, İzmir, Turkey, 2025.
- B4.** Alsawaf S., Bal T., Çalışkaner Z. O., Exploring The Potential Of Drug Repurposing Against Abnormally Regulated Cell-Matrix Interactions In The Treatment Of Pancreatic Cancer, In: *STRA International Conference on Engineering & Technology*, İstanbul, Turkey, 2024.
- B5.** Çalışkaner Z. O., Usage of Polymeric Materials in Stem Cell Science, In: *16th International Seminar on Polymer Science and Technology (ISPST 2024)*, Tebriz, Iran, 2024.
- B6.** Özçelik E., Kalaycı A., Çelik B., Avcı A., Akyol H., Kılıç İ. B., Çakar T., Çetin M., Tuzlakoğlu Öztürk M., Çalışkaner Z. O. vd., High level of DEK isoform-2 delays recovery from doxorubicin induced DNA damage, In: *The 45th FEBS Virtual Congress*, Ljubljana, Slovenia, 2021.
- B7.** Çalışkaner Z. O., Waheed A. A., Özcan E., Çakır T., Bioinformatic Analysis of Parkinson s Disease Huntington s Disease and Multiple Sclerosis To Reveal Disease Specific Metabolic Patterns, In: *3rd International Congress of Molecular Biology Association of Turkey*, İzmir, Turkey, 2014.

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

C2. Chapters in national/international books written:

- C2.1.** Çalışkaner Z. O., "Therapeutic Potential of Stem Cells in Neurodegenerative Diseases", *Bioinformatics Of The Brain*, CRC Press Taylor & Francis, Florida, 2024.

D. Articles published in national peer-reviewed journals:

- D1.** Çalışkaner Z. O., "Holistic Transcriptomic Analysis Identifies Prospective Reprogramming Factors for Induced Pluripotent Stem Cell Manufacturing", *Sakarya University Journal of Science*, vol. 29, no. 5, pp. 522-538, 2025.

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

- E1.** Torun D., Çalışkaner Z. O., Kandilci A., Akar M. N., MAKROTROMBOSİTOPENİ GENETİĞİ: MYH9-TUBB1 İLKKEZ TANIMLANAN MUTASYONLAR VE ETKİLERİ, In: *3.Hematolojik Genetik Sempozyumu*, İzmir, Turkey, 2018.
- E2.** Çalışkaner Z. O., Torun Özkan D., Tuzlakoğlu Öztürk M., Akar M. N., Oymak Y., Tazebay U. H., Kandilci A., TUBB1 p.T274M/R307H Genetik Varyasyonunun Mikrotübül Organizasyonu Üzerindeki Etkisi, In: *43. Ulusal Hematoloji Kongresi*, Ankara, Turkey, 2017.
- E3.** Çalışkaner Z. O., Kandilci A., Investigating Potential Affects of Dek Expression on Multiple Myeloma Cells, In: *GTÜ Fen Bilimleri Lisansüstü Araştırmalar Sempozyumu*, Kocaeli, Turkey, 2016.
- E4.** Çalışkaner Z. O., Özçelik E., Kandilci A., Endojen DEK İfadesindeki Baskılanmanın Multiple Miyelom Hücre Hatlarının Temel Biyolojik Özellikleri Üzerindeki Etkilerinin Araştırılması, In: *XIV. Ulusal Tıbbi Biyoloji ve Genetik Kongresi (Uluslararası katılımı)*, Muğla, Turkey, 2015.