CURRICULUM VITAE AND PUBLICATIONS LIST

CURRICULUM VITAE

Name and Surname: Aslı UĞURLU BAYARSLAN

Academic Title: Assistant Professor

Work Address:

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Area of Expertise: Natural Sciences

Degree	Department/Program	University	Year
Doctorate	MOLEKÜLER BİYOLOJİ VE GENETİK (DR)	Boğaziçi University	2016
Master's Degree	MOLEKÜLER BİYOLOJİ VE GENETİK (YL) (TEZLİ)	Boğaziçi University	2010
Bachelor's Degree	MOLEKÜLER BİYOLOJİ VE GENETİK BÖLÜMÜ	Boğaziçi University	2009

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

Negative regulation of müller reprogramming by SIK2

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

Negative regulation of müller reprogramming by SIK2

Position Title	Workplace	Year
Assistant Professor	Biruni University	2025-Continues
Assistant Professor	Kastamonu University	2018-2025
Research Assistant	Kastamonu University	2017-2018
Research Assistant	Boğaziçi University	2010-2017
Research Assistant	Kastamonu University	2010

Supervised Master's Theses:

1. İnsan retinal glia hücrelerinde glutamat eksitotoksisitesine karşı sarı kantaron (Hypericum perforatum) özütleri, hiperisin ve hiperforinin etkisi (2023)
2. Sarı kantaronun (Hypericum perforatum) oksidatif stres koşullarında müller hücreleri üzerine etkisi (2022)
3. Rubus canescens DC. var. canescens bitki özütlerinin meme kanseri hücreleri üzerindeki etkisi (2021)
4. Göknar özütlerinin MDA-MB-231 hücreleri üzerindeki sitotoksik ve apoptotik etkisi (2019)

Roles in Projects:

1. *Haloarkeal bakterioruberinin vegan içerikli güneş kremlerinde kullanım potansiyellerinin araştırılması*, TUBITAK Project, Uğurlu Bayarslan A., 2025-Continues.

2. *2. Association of plasma miR-3679-3p, miR3652 and miR-218-5p expression with clinical parameters in multiple sclerosis*, TUBITAK Project, Uğurlu Bayarslan A. (Executive), 2026-Continues.

3. *3. Protective Effects of Hyperforin-Loaded Gold Nanoparticles on Retinal Glial Cells Under Oxidative Stress*, TUBITAK Project, Uğurlu Bayarslan A., Ertuğ N. (Executive), 2026-Continues.

4. *4. Protective Effects of Quercetin-Loaded Gold Nanoparticles on Retinal Glial Cells Under Oxidative Stress*, TUBITAK Project, Uğurlu Bayarslan A., 2026-Continues.

5. *Multipl skleroz hastalarının periferik kan T hücreleri ve monositlerinde tuz- indüklenebilir kinaz seviyeleri ve aktivitelerinin belirlenmesi*, TUBITAK Project, Uğurlu Bayarslan A. (Executive), 2023-Continues.

6. *Selekoksibin glutamat eksitotoksisitesine karşı nöroprotektif etkisi*, TUBITAK Project, Uğurlu Bayarslan A., Demirbaş E. İ., Sel S. (Executive), 2023-2025.

7. *Selekoksibin insan retinal Müller hücre canlılığı üzerindeki etkisi*, TUBITAK Project, Uğurlu Bayarslan A., Demirbaş S. M. (Executive), 2023-2025.

8. *Cucurbitaceae (Kabakgiller) Ailesinin Bazı Üyelerinde Ekspansin Genlerinin Özelliklerinin Belirlenmesi ve Dokuya Özgü Abiyotik Stres Yanıtlarının Incelenmesi*, TUBITAK Project, Uğurlu Bayarslan A., Çelik Altunoğlu Y. (Executive), 2019-2021.

9. *SIK2'nin FGF'e Bağlı Retinal Müller Transdiferansiyasyonunda Yer Alma Olasılığının İrdelenmesi*, TUBITAK Project, Uğurlu Bayarslan A., Bilge K. (Executive), 2013-2015.

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 Students
			Theoretical	Practical	
2025	Spring	Rekombinant DNA ilkeleri ve Yöntemleri			
2025	Spring	Research Studies			
2025	Spring	Biotechnology			
2025	Spring	Genetic Disorders and Gene Therapy			
2025	Spring	Molecular Biology of Cancer			
2025	Spring	Biyoteknoloji			
2025	Spring	Kanser Moleküler Biyolojisi			
2025	Spring	Nörodejeneratif Hastalıklar ve Genetik Temelleri			
2025	Spring	Inherited Diseases			
2025	Fall	Rekombinant DNA ilkeleri ve Yöntemleri			
2025	Fall	Research Studies			
2025	Fall	Biotechnology			
2025	Fall	Genetic Disorders and Gene Therapy			
2025	Fall	Molecular Biology of Cancer			
2025	Fall	Biyoteknoloji			
2025	Fall	Kanser Moleküler Biyolojisi			
2025	Fall	Nörodejeneratif Hastalıklar ve Genetik Temelleri			
2025	Fall	Inherited Diseases			

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. Karcıoğlu Batur L., Pektas A., Aslan B., Akçalı N., Mustafa Z., Uğurlu Bayarslan A., Aldogan E. H., Ustunova S., "In Silico and In Vitro Evaluation of Calm Supplement Constituents on Antidepressant-Related Molecular Targets and Neuroplasticity-Associated

Gene Expression", *Biomedicines*, vol. 14, no. 8, 2026.

A2. Kuser-abali G., Uğurlu Bayarslan A., Yilmaz Y., Ozcan F., Karaer F., Bugra K., "SIK2: A Novel Negative Feedback Regulator of FGF2 Signaling", *Advanced Biology*, vol. 8, no. 11, 2024.

A3. İncili Ç. Y., Arslan B., Çelik E. N. Y., Ulu F., Horuz E., Baloglu M. C., Çağlıyan E., Burcu G., Uğurlu Bayarslan A., Altunoglu Y. C., "Comparative bioinformatics analysis and abiotic stress responses of expansin proteins in Cucurbitaceae members: watermelon and melon", *Protoplasma*, vol. 260, no. 2, pp. 509-527, 2023.

A4. Sancak S., Yazgan İ., Uğurlu Bayarslan A., Ayna A., Evecen S., Taşdelen Z., Gümüş A., Sönmez H. A., Demir M. A., Demir S. vd., "Surface chemistry dependent toxicity of inorganic nanostructure glycoconjugates on bacterial cells and cancer cell lines", *Journal of Drug Delivery Science and Technology*, vol. 79, 2023.

A5. Arslan B., İncili Ç. Y., Ulu F., Horuz E., Uğurlu Bayarslan A., Öçal M., Kalyoncuoğlu E., Baloglu M. C., Altunoglu Y. C., "Comparative genomic analysis of expansin superfamily gene members in zucchini and cucumber and their expression profiles under different abiotic stresses", *Physiology and Molecular Biology of Plants*, vol. 27, no. 12, pp. 2739-2756, 2021.

A6. Uysal S., Gevrenova R., Sinan K. I., Uğurlu Bayarslan A., Altunoglu Y. C., Zheleva-dimitrova D., Ak G., Baloglu M. C., Etienne O. K., Lobine D. vd., "New perspectives into the chemical characterization of Sida acuta Burm. f. extracts with respect to its anti-cancer, antioxidant and enzyme inhibitory effects", *Process Biochemistry*, vol. 105, pp. 91-101, 2021.

A7. Mahomoodally M. F., Uğurlu Bayarslan A., Llorent-martínez E. J., Nagamootoo M., Picot-allain M. C. N., Baloglu M. C., Altunoglu Y. C., Hosenally M., Zengin G., "Syzgium coriaceum Bosser & J. Guého—An endemic plant potentiates conventional antibiotics, inhibits clinical enzymes and induces apoptosis in breast cancer cells", *Industrial Crops and Products*, vol. 143, 2020.

A8. Mahomoodally M. F., Picot-allain C., Hosenally M., Uğurlu Bayarslan A., Mollica A., Stefanucci A., Llorent-martínez E., Baloglu M. C., Zengin G., "Multi-targeted potential of Pittosporum senacia Putt.: HPLC-ESI-MSn analysis, in silico docking, DNA protection, antimicrobial, enzyme inhibition, anti-cancer and apoptotic activity", *Computational Biology and Chemistry*, vol. 83, 2019.

A9. Zengin G., Uğurlu Bayarslan A., Baloglu M. C., Diuzheva A., Jekő J., Cziáky Z., Ceylan R., Aktumsek A., Picot-allain C. M. N., Fawzi Mahomoodally M., "Chemical fingerprints, antioxidant, enzyme inhibitory, and cell assays of three extracts obtained from Sideritis ozturkii Aytaç & Aksoy: An endemic plant from Turkey", *Journal of Pharmaceutical and Biomedical Analysis*, vol. 171, pp. 118-125, 2019.

A10. Mahomoodally M. F., Yerlikaya S., Llorent-martínez E. J., Uğurlu Bayarslan A., Baloglu M. C., Altunoglu Y. C., Mollica A., Dardenne K. K., Aumeeruddy M. Z., Puchooa D. vd., "Pharmacological and polyphenolic profiles of Phyllanthus phillyreifolius var. commersonii Müll. Arg: An unexplored endemic species from Mauritius", *Food Research International*, vol. 115, pp. 425-438, 2019.

A11. Uysal S., Uğurlu Bayarslan A., Zengin G., Baloglu M. C., Altunoglu Y. C., Mollica A., Custodio L., Neng N. R., Nogueira J. M., Mahomoodally M. F., "Novel in vitro and in silico insights of the multi-biological activities and chemical composition of Bidens tripartita L.", *Food and Chemical Toxicology*, vol. 111, pp. 525-536, 2018.

A12. Küser-abali G., Ozcan F., Uğurlu Bayarslan A., Uysal A., Fuss S. H., Bugra-bilge K., "SIK2 is involved in the negative modulation of insulin-dependent muller cell survival and implicated in hyperglycemia-induced cell death.", *Investigative ophthalmology & visual science*, vol. 54, no. 5, pp. 3526-3537, 2013.

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

B1. Uğurlu Bayarslan A., Tuncel Z., Çelik Altunoğlu Y., Baloğlu M. C., The Cytotoxicity of Abies Nordmanniana Subsp. Bornmuelleriana Extracts on Breast Cancer Cells, In: *II. International Green Biotechnology Congress*, İstanbul, Turkey, 2019.

B2. Çelik Altunoğlu Y., Can T. H., Uğurlu Bayarslan A., Arslan B., Horuz E., Eryiğit A., Çağlıyan E., Hüseyin Y., Oğuz L. H., Aybüke O. vd., Identification and Bioinformatics Analysis of Expansin Genes in Cucurbitaceae Family Members, In: *II. International Green Biotechnology Congress*, Turkey, 2019.

B3. Yazgan İ., Uğurlu Bayarslan A., Çeter T., Akgül A., Akgül A., Chiral Gold Nanoparticle Glycoconjugate Synthesis and Their Anticancer and Antibacterial Applications Relying on Carbohydrate-Lectin Interactions, In: *The 256th ACS National Meeting*, United States, 2018.

B4. Uğurlu Bayarslan A., Elfogohı L. R. A., Çiçek S., Salihoğlu K., Çeter T., Cytotoxic Activity Screening of Vitis vinifera subsp. vinifera Extracts., In: *Ecology 2018*, Kastamonu, Turkey, 2018.

B5. Uğurlu Bayarslan A., Aygün A., Şen F., The Inhibitory Effect of Silver-Palladium Nanoparticles on Cervical Cancer Cells, In: *Ecology 2018*, Turkey, 2018.

B6. Uğurlu Bayarslan A., The role of Salt Inducible Kinase 3 in insulin-dependent retinal Müller cell survival, In: *ICELIS 2018*, Turkey, 2018.

B7. Uğurlu Bayarslan A., Elfogohı L. R. A., Çiçek S., Salihoğlu K., Çeter T., The Effect of Some Vitis vinifera ssp. vinifera Extracts on Huh7 Hepatocarcinoma Cells., In: *International Congress On Engıneering and Life Science*, Turkey, 2018.

B8. Uğurlu Bayarslan A., Bilge K., A Role for Salt Inducible Kinase 2 (SIK2) in Müller Glia Reprogramming, In: *42. FEBS Congress*, Israel, 2017.

B9. Uğurlu Bayarslan A., Bilge K., Potential Contribution of SIK2 to Müller Cell Transdifferentiation, In: *XXII Biennial Meeting of the International Socity for Eye Research*, Japan, 2016, pp. 311.

B10. Uğurlu Bayarslan A., Bilge K., SIK2 Involvement in FGF2 dependent Müller Cell Transdifferentiation, In: *Fusion Conferences-Fibroblast Growth Factors in Development and Repair*, Mexico, 2015, pp. 97.

B11. Uğurlu Bayarslan A., Bilge K., SIK2 in Müller Cell Transdifferentiation, In: *EMBO Workshop - Decoding Neural Circuit Structure and Function*, İstanbul, Turkey, 2014, pp. 84.

B12. Uğurlu Bayarslan A., Bilge K., SIK2 Involvement in Müller Cell Transdifferentiation, In: *3rd International Congress of the Molecular Biology Association of Turkey*, İzmir, Turkey, 2014.

B13. Uğurlu Bayarslan A., Bilge K., Involvement of SIK2 in Müller Cell Transdifferentiation, In: *Gordon Research Conferences - Fibroblast Growth Factors in Development and Disease.*, United States, 2014.

B14. Duymaz J., Uğurlu Bayarslan A., Uyar F. A., Saruhan Direskeneli G., Gül A., Distribution of Killer Immunoglobulin-like Receptor 3DL1 Alelles in Behçet's Disease, In: *2nd European Congress of Immunology*, Germany, 2009.

B15. Uğurlu Bayarslan A., Yavuz Ş., Direskeneli R. H., Saruhan Direskeneli G., TLR6 Gene Polymorphism is not Associated with Behçet's Disease, In: *2nd Mediterranean Clinical Immunology Meeting*, Antalya, Turkey, 2008, pp. 73.

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

C2. Chapters in national/international books written:

C2.1. Çelik Altunoğlu Y., Uğurlu Bayarslan A., Baloğlu P., Baloğlu M. C., "Bioinformatics and Its Utilization inGreen Biotechnology", *Recent Advances in Plant Science*, Nova, 2020.

C2.2. Ünel N. M., Uğurlu Bayarslan A., Yer Çelik E. N., Ulu F., Can T. H., Çelik Altunoğlu Y., Baloğlu M. C., "Genom Projeleri ve Gen Ailelerinin Biyoinformatik Analizleri", *Biyoinformatik Temelleri ve uygulamaları*, Pegem Akademi, 2020.

C2.3. Baloğlu M. C., Çelik Altunoğlu Y., Uğurlu Bayarslan A., Baloğlu P., "Tarımsal Biyoinformatik", *Bitki Biyoteknolojisinde Güncel Yaklaşımlar*, Palme Yayınevi, 2019.

D. Articles published in national peer-reviewed journals:

D1. Elfogohi L., Bıyıklıoğlu O., Uğurlu Bayarslan A., Karabıcak S., Yazgan İ., Çeter T., "Comparison of Anticancer Capacity of Six Grape Extracts on Cancerous Liver Cell Line", *Türk Doğa ve Fen Dergisi*, vol. 14, 2025.

D2. Uğurlu Bayarslan A., Bugra K., "Overexpression of SIK2 Inhibits FGF2-dependent Müller Glial Reprogramming", *Experimed*, vol. 15, no. 1, pp. 23-30, 2025.

D3. Dilek Tepe H., Uğurlu Bayarslan A., Yazgan İ., "Determination of Phenolic Compounds, Organic Volatile Molecules and Anti-Cancer Properties in Inula Viscosa L., Viscum Album L. and Raphanus Sativus L.", *Sakarya University Journal of Science*, 2021.

D4. Uğurlu Bayarslan A., "Identification and Characterization of LEA Genes in Ash Tree (Fraxinus excelsior) Genome", *Kastamonu Üniversitesi Orman Fakültesi Dergisi*, 2019.

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

E1. Ulu F., Özkan B., Uğurlu Bayarslan A., Çelik Altunoğlu Y., Baloğlu M. C., Keten (Linum usitatissimum) genomunda ekspansin genlerinin karakterizasyonu ve biyoinformatik analizleri, In: *Uluslararası Katılımlı 20. Biyoteknoloji Kongresi*, Turkey, 2019.

E2. Yazgan İ., Gümüş A., Buse T., Selam D., Uğurlu Bayarslan A., Çeter T., Antimicrobial activities of gold nanoparticles synthesized with pollen extracts, In: *2nd Aerobiology and Palynology Symposium (APAS2018)*, Turkey, 2018.

E3. Yerlikaya S., Uğurlu Bayarslan A., Zengin G., Çelik Altunoğlu Y., Baloğlu M. C., Taçlı Fiğ Bitkisinin Metanol Özütünün Antibakteriyal ve DNA Koruma Aktivitesinin Saptanması, In: *7. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi-Molbiotech, 2018*, Nevşehir, Turkey, 2018.

E4. Uğurlu Bayarslan A., Caferoğlu M., Çelik Altunoğlu Y., Baloğlu M. C., Karpuz Genomunda Hsp70 Gen Ailesinin Biyoinformatik Karakterizasyonu, In: *19. Uluslararası Katılımlı Ulusal Biyoteknoloji Kongresi*, Turkey, 2017.