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Atılım University
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PERSONAL

Date of Birth	28.06.1989
Place of Birth	Haymana/Ankara

EDUCATION

2014-2020	Middle East Technical University, Biochemistry, Ph.D.
2012-2014	Middle East Technical University, Biology, M.S.
2008-2012	Istanbul University, Molecular Biology and Genetics, B.S.

ACADEMIC POSITIONS

September/2024	Assistant Professor, Department of Medical Biochemistry, School of Medicine, Atılım University, Turkey
February/2021-July/2024	Assistant Professor, Department of Bioengineering Konya Food & Agriculture University, Turkey
February/2016-February/2021	Research Assistant, Department of Molecular Biology and Genetics, Konya Food & Agriculture University, Turkey

HONORS&AWARDS

1	2022 Postdoctoral Research Scholarship, Department of Translational Medicine, Faculty of Medicine, Lund University, Sweden
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RESEARCH INTERESTS

1	Natural and Synthetic Molecule Discovery
2	Antibacterial Agents
3	Chemical Biology

PROFESSIONAL SERVICE

1	Board Member, Turkish Biotechnology Association (2016-2018)
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PUBLICATIONS

1	Cetinkaya, Y. N., Bulut, O. , Oktem, H. A., & Yilmaz, M. D. (2023). Fluorescent silica nanoparticles as nano-chemosensors for the sequential detection of Pb ²⁺ ions and bacterial-spore biomarker dipicolinic acid (DPA) in aqueous solution. <i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> , 303, 123222.
2	Bulut, O. , Sönmez, Ç., & Öktem, H. A. (2023). <i>Hindakia tetrachotoma</i> ME03 (Chlorophyta) has high phenolic content, antioxidant capacity, and attenuates H ₂ O ₂ -

	induced oxidative stress and apoptosis in human cells. <i>Phycologia</i> , 62(4), 293-302.
3	Kocak, H. S., Bulut, O. , & Yilmaz, M. D. (2023). A Dicationic BODIPY-Based Fluorescent Bactericide to Combat Infectious Diseases and to Eradicate Bacterial Biofilms. <i>ACS Applied Bio Materials</i> , 6(4), 1604-1610.
4	Bilge, G., Yurdakul, M., Buzrul, S., & Bulut, O. (2022). Evaluation of the effect of pulsed electric field on coffee arabica beans. <i>Food and Bioprocess Technology</i> , 15(5), 1073-1081.
5	Bulut, O. , & Yilmaz, M. D. (2022). Quercetagenin-stabilized silver nanoparticles for the oxidation of morin. <i>ACS Applied Nano Materials</i> , 5(10), 13761-13767.
6	Bulut, O. , & Yilmaz, M. D. (2021). Catalytic evaluation of biocompatible chitosan-stabilized gold nanoparticles on oxidation of morin. <i>Carbohydrate Polymers</i> , 258, 117699.
7	Eçik, E. T., Bulut, O. , Kazan, H. H., Şenkuytu, E., & Çoşut, B. (2021). Design of novel photosensitizers and controlled singlet oxygen generation for photodynamic therapy. <i>New Journal of Chemistry</i> , 45(35), 16298-16305.
8	Bulut, O. , & Yilmaz, M. D. (2021). Concise synthesis of quercetagenin (3, 3', 4', 5, 6, 7-hexahydroxyflavone) with antioxidant and antibacterial activities. <i>Results in Chemistry</i> , 3, 100255.
9	Bulut, O. , Oktem, H. A., & Yilmaz, M. D. (2020). A highly substituted and fluorescent aromatic-fused imidazole derivative that shows enhanced antibacterial activity against methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). <i>Journal of Hazardous Materials</i> , 399, 122902.
10	Kazan, H. H., Urfali-Mamatoglu, C., Yalcin, G. D., Bulut, O. , Sezer, A., Banerjee, S., & Gunduz, U. (2020). 15-LOX-1 has diverse roles in the resensitization of resistant cancer cell lines to doxorubicin. <i>Journal of cellular physiology</i> , 235(5), 4965-4978.
11	Some, S., Bulut, O. , Biswas, K., Kumar, A., Roy, A., Sen, I. K., ... & Ocsoy, I. (2019). Effect of feed supplementation with biosynthesized silver nanoparticles using leaf extract of <i>Morus indica</i> L. V1 on <i>Bombyx mori</i> L.(Lepidoptera: Bombycidae). <i>Scientific reports</i> , 9(1), 14839.
12	Bulut, O. , Akin, D., Sönmez, Ç., Öktem, A., Yücel, M., & Öktem, H. A. (2019). Phenolic compounds, carotenoids, and antioxidant capacities of a thermo-tolerant <i>Scenedesmus</i> sp.(Chlorophyta) extracted with different solvents. <i>Journal of Applied Phycology</i> , 31, 1675-1683.
13	Roy, A., Bulut, O. , Some, S., Mandal, A. K., & Yilmaz, M. D. (2019). Green synthesis of silver nanoparticles: biomolecule-nanoparticle organizations targeting antimicrobial activity. <i>RSC advances</i> , 9(5), 2673-2702.

PROJECTS

1	Development of bacterial outer membrane vesicle-based vaccine delivery systems. The Royal Physiographic Society of Lund, Sweden. Principal Investigator. 2022.
2	Synthesis of silver nanoparticles using microalgae extracts and investigation of their antibacterial effects. Konya Food & Agriculture University BAP, Turkey. Principal Investigator. 2019.
3	Investigation of antioxidant activity in green microalgae. Konya Food & Agriculture University BAP, Turkey. Principal Investigator. 2018.
4	Establishment of a microalgal based recombinant protein expression platform. TÜBİTAK Project (114Z487). Researcher. 2015.
5	Development of aptamer-based biosensor platform for <i>Salmonella</i> detection. TÜBİTAK Project (MAG-111M284). Researcher. 2013.

CONFERENCE PRESENTATIONS

1	Bulut O., Akça O., Öktem H.A. "Development of a Lateral Flow Assay Coupled with Conventional PCR for Detection of <i>Salmonella</i> ." 1st Turkish Congress of One Health, Abstract Book pg.69, April 8-10, 2015, Konya, Turkey.
2	Bulut O., Akça O., Öktem H.A. " <i>Salmonella</i> Tanısı için Nükleik Asit Tabanlı Lateral Flow Testinin Geliştirilmesi." 18. Ulusal Biyoteknoloji Kongresi, Bildiri

	Kitabı s.177, Türkiye 18-19 Aralık, 2015, Konya, Türkiye.
3	Arıcı M.K., Bulut O., Akça O., Yücel M., Öktem H.A. “ <i>Salmonella</i> Detection via Silica Nanoparticle based Lateral Flow Test Platform.” 3rd International Congress on Biosensors, Abstract Book pg.37, October 5-7, 2016, Ankara, Turkey.
4	Bulut O., Yılmaz M.D., Öktem H.A. (2017). “Aflatoksin B1 Tanısı İçin Mezoporlu Silika Nanoparçacık Tabanlı Aptasensörün Geliştirilmesi.” 19. Ulusal Biyoteknoloji Kongresi, Bildiri Kitabı s.127, 1-3 Aralık 2017, Eskişehir, Turkey.

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	789
H-index (ISI Web of Science):	7

COURSES GIVEN

1	NUT201 Nutritional Biochemistry I. Department of Nutrition and Dietetics, Atılım University, 2024-2025 Fall.
2	Medical Biochemistry Lectures in MED103, MED105, MED301 Committee Courses. School of Medicine, Atılım University, 2024-2025 Fall.
3	BENG3008 Biochemistry for Bioengineers II. Department of Bioengineering, Konya Food & Agriculture University, 2022-2023 Spring & 2023-2024 Spring.
4	BENG3005 Biochemistry for Bioengineers I. Department of Bioengineering, Konya Food & Agriculture University, 2022-2023 Fall & 2023-2024 Fall.
5	BENG4209 Biotechnology and Its Applications. Department of Bioengineering, Konya Food & Agriculture University, 2021-2022 Fall.
6	MSN8515 Nanobiotechnology: Concepts and Applications. Material Science and Nanotechnology Master’s Program, Konya Food & Agriculture University, 2021-2022 Fall.
7	BENG3006 Biosensors. Department of Bioengineering, Konya Food & Agriculture University, 2020-2021 Spring, 2021-2022 Spring & 2022-2023 Spring.
8	BENG3004 Biophysics. Department of Bioengineering, Konya Food & Agriculture University, 2020-2021 Spring.