CURRICULUM VITAE AND PUBLICATIONS LIST



CURRICULUM VITAE

Name and Surname: Besa Bilakaya

Academic Title: Assistant Professor

Work Address:

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Area of Expertise: Biopharmaceutical and Pharmacokinetics
Cosmetology
Pharmaceutical Technology

Degree	Department/Program	University	Year
Doctorate	Department of Pharmacy Technology	Biruni University	2025
Bachelor's Degree	HEALTH MANAGEMENT PROGRAM (DISTANCE LEARNING) (HEALTH BACHELOR'S DEGREE COMPLETION)	İstanbul University	2023
Associate Degree	HEALTHCARE INSTITUTIONS MANAGEMENT PROGRAM (DISTANCE LEARNING)	İstanbul University	2018
Bachelor's Degree		Biruni University	2019

Position Title	Workplace	Year
Research Assistant	Biruni University	2021-Continues

Roles in Projects:

1. *Yeni Nesil, Bilinen Moleküllerden Hareketle Hazırlanan Karbon Kuantum Noktalarının Kanser Tedavisinde Etki Mekanizmasının Araştırılması*, TUBITAK Project, Bilakaya B. (Executive), 2025-Continues.

2. *Aşılarda Kullanılmak Üzere Kuantum Nokta İçeren Steril Enjeksiyonluk İlaç Formülasyonlarının Hazırlanması*, TUBITAK Project, Değim İ. T. (Executive), Solak M., Çamlık G., Ayaz F., Bilakaya B., 2022-2024.

3. *Diyabet Tedavisinde Oral Yoldan Uygulanabilen İnsülin-Karbon Quantum Formülasyonun Geliştirilmesi*, TUBITAK Project, Değim İ. T. (Executive), Çamlık G., Bilakaya B., 2018-2021.

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. Karcıoğlu Batur L., Yavaş C., Kulus F., Aslan B., Pektas A., Bilakaya B., Akçalı N., Aslan E. S., Günen F., Değim İ. T., "Vitamin D delivered through carbon quantum dots modifies cytokine expression and migration in MCF-7 breast cancer cells", *Molecular Biology Reports*, vol. 53, no. 1, 2026.

A2. Ayaz F., Kavrak B., Bilakaya B., Çamlık G., Özarslan F. S., Değim İ. T., "Immunomodulatory activities of carbon quantum dots on the primary macrophages and whole splenocytes", *Immunologic Research*, vol. 73, no. 1, 2025.

A3. Doğanay D., Avşar İ. S., Özcan Aykol Ş. M., Çamlık G., Bilakaya B., Değim İ. T., "The effects of the combined use of carbon quantum dots and antibacterial agents on pathogenic bacteria", *Turkısh Journal of Biology*, vol. 49, no. 6, pp. 728-737, 2025.

A4. Çamlık G., Bilakaya B., Karaotmarlı Güven G., Küpeli Akkol E., Değim Z., Sobarzo-sánchez E., Değim İ. T., "Quantum Drugs (Q-Drugs): A New Discovery and Taboo Breaking Approach; Producing Carbon Quantum Dots from Drug Molecules", *Pharmaceuticals*, vol. 18, no. 6, 2025.

A5. Camlik G., Bilakaya B., Küpeli Akkol E., Velaro A. J., Wasnik S., Muhar A. M., Değim İ. T., Sobarzo-sánchez E., "Oral Active Carbon Quantum Dots for Diabetes", *Pharmaceuticals*, vol. 17, no. 10, 2024.

A6. Camlik G., Bilakaya B., Ozsoy Y., Değim İ. T., "A new approach for the treatment of Alzheimer's disease: insulin-quantum dots", *Journal of Microencapsulation*, vol. 41, no. 1, pp. 18-26, 2024.

A7. Prananda A. T., Dalimunthe A., Harahap U., Syahputra R. A., Nugraha S. E., Situmorang P. C., Fah Y. T., Jekson Martiar A., Jekson Martiar S., Velaro A. J. vd., "Phytochemical profiling and cardioprotective activity of Vernonia amygdalina ethanol extract (VAEE) against ISO-induced cardiotoxicity in rats", *PHARMACIA*, vol. 70, no. 3, pp. 758-796, 2023.

A8. Prananda A. T., Dalimunthe A., Harahap U., Syahputra R. A., Nugraha S. E., Situmorang P. C., Fah Y. T., Velaro A. J., Bilakaya B., Harahap M. A. Y., "Vernonia amygdalina protects against doxorubicin-induced hepatic and renal damage in rats: mechanistic insights", *Pharmacia*, vol. 70, no. 3, pp. 825-835, 2023.

A9. Camlik G., Ozakca I., Bilakaya B., Ozcelikay A. T., Velaro A. J., Wasnik S., Değim İ. T., "Development of composite carbon quantum dots-insulin formulation for oral administration", *Journal of Drug Delivery Science and Technology*, vol. 76, 2022.

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

C2. Chapters in national/international books written:

C2.1. Çamlık G., Bilakaya B., Uyar P., Değim Z., Değim İ. T., Uyar P., "New generation of composite carbon quantum dots for imaging, diagnosing, and treatment of cancer", *Functionalized Nanomaterials for Cancer Research Applications in Treatments, Tools and Devices*, Elsevier, Massachusetts, 2024.

D. Articles published in national peer-reviewed journals:

D1. Çamlık G., Karaotmarlı Güven G., Bilakaya B., Çağlar E. Ş., Boran T., Üstündağ Okur N., Değim İ. T., "Development and Characterization of Indomethacin Quantum Dot Loaded Hydrogel İndometazin Kuantum Nokta Yüklü Hidrojelin Geliştirilmesi ve Karakterizasyonu", *Fabad Journal of Pharmaceutical Sciences*, 2025.