



CURRICULUM VITAE

Name and Surname: Besa Bilakaya
Academic Title: Research Assistant
Work Address:
Email: bbilakaya@biruni.edu.tr
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 Formülasyonunun Geliştirilmesi*, TUBITAK Project, Değim İ. T. (Executive), Çamlık G., Bilakaya B., 2018-2021.

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1.** 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.
- A2.** 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", *Turkish Journal of Biology*, vol. 49, no. 6, pp. 728-737, 2025.
- A3.** 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.

A4. Camlik G., Bilakaya B., K peli Akkol E., Velaro A. J., Wasnik S., Muhar A. M., Deđim  . T., Sobarzo-s nchez E., "Oral Active Carbon Quantum Dots for Diabetes", *Pharmaceuticals*, vol. 17, no. 10, 2024.

A5. Camlik G., Bilakaya B., Ozsoy Y., Deđim  . 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.

A6. 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.

A7. 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.

A8. Camlik G., Ozakca I., Bilakaya B., Ozcelikay A. T., Velaro A. J., Wasnik S., Deđim  . 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. amlık G., Bilakaya B., Uyar P., Deđim Z., Deđim  . 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. amlık G., Karaotmarlı G ven G., Bilakaya B., ađlar E. Ő., Boran T.,  st ndađ Okur N., Deđim  . T., "Development and Characterization of Indomethacin Quantum Dot Loaded Hydrogel İndometazin Kuantum Nokta Y kl  Hidrojelin GeliŐtirilmesi ve Karakterizasyonu", *Fabad Journal of Pharmaceutical Sciences*, 2025.