

CURRICULUM VITAE

Name and Surname: Elif KARAMAN
Academic Title: Assistant Professor
Work Address:
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Area of Expertise: Biotechnology
Industrial Biotechnology
Life Sciences
Microbial Biotechnology

Degree	Department/Program	University	Year
Doctorate	BİYOTEKNOLOJİ (DR)	Bezmiâlem Vakıf University	2023
Master's Degree	BİYOMÜHENDİSLİK (YL) (TEZLİ)	Yıldız Technical University	2017
Bachelor's Degree	ULUSLARARASI İLİŞKİLER BÖLÜMÜ	Anadolu University	2016
Bachelor's Degree	BİYOMÜHENDİSLİK BÖLÜMÜ	Yıldız Technical University	2014

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

Metal-mediated oxidative stress-induced model of alzheimer's disease in human neuroblastoma cells

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

Developing a biotechnological platform for the production of affinity reagents in *Aspergillus oryzae*

Position Title	Workplace	Year
Assistant Professor	Biruni University	2025-Continues
Research Assistant	Bezmiâlem Vakıf University	2018-2025

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. Karaman E., Uysal S., "Expression and characterization of recombinant IL-1Ra in *Aspergillus oryzae* as a system", *BMC BIOTECHNOLOGY*, vol. 23, no. 1, pp. 15, 2023.

A2. Karaman E., Uysal S., "Large-Scale Production of Anti-RNase A VHH Expressed in pyrG Auxotrophic *Aspergillus oryzae*", *CURRENT ISSUES IN MOLECULAR BIOLOGY*, vol. 45, no. 6, pp. 18, 2023.

A3. Karaman E., Uysal S., "Human ACE2 orthologous peptide sequences show better binding affinity to SARS-CoV-2 RBD domain: Implications for drug design", *COMPUTATIONAL AND STRUCTURAL BIOTECHNOLOGY JOURNAL*, vol. 21, pp. 14, 2023.

A4. Karaman E., Lüleci H. B., Cengiz M. F., "Reduction of methomyl and acetamiprid residues from tomatoes after various household washing solutions", *INTERNATIONAL JOURNAL OF FOOD PROPERTIES*, vol. 20, no. 11, pp. 12, 2017.

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

- B1.** Karaman E., Expression of bioactive peptide Lunasin in *Aspergillus oryzae*: antioxidant properties and biotechnological prospects, In: *6. International Cappadocia Scientific Research Congress*, Nevşehir, Turkey, 2024.
- B2.** Karaman E., Utilizing *Aspergillus oryzae* for Expression of SARS-CoV-2 Spike Protein Domains: Insights into COVID-19 Research, In: *International Conference on Engineering, Natural Sciences, and Technological Developments (ICENSTED 2024)*, Balıkesir, Turkey, 2024.
- B3.** Karaman E., Uysal S., THE CONSTRUCTION OF AFFINITY AGENT PRODUCTION PLATFORM BY USING PYRG AUXOTROPH *ASPERGILLUS ORYZAE* AND THE PRODUCTION OF THE NANOBODIES (VHH), In: *6th International Congress on Advances in Bioscience and Biotechnology (ICABB)*, Turkey, 2022, pp. 31-31.

D. Articles published in national peer-reviewed journals:

- D1.** Karaman E., Uysal S., "Aspergillus oryzae as a host for SARS-CoV-2 RBD and NTD expression", *Biotech Studies*, vol. 33, no. 2, pp. 82-90, 2024.
- D2.** Karaman E., Uysal S., Albayrak C., "Investigating the Antioxidant Capacity of Lunasin Expressed in *Aspergillus oryzae*", *European Journal of Biology*, vol. 83, no. 1, pp. 67-76, 2024.

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

- E1.** Karaman E., İnsan Nöroblastoma Hücrelerinde Metal Uyarıcı Oksidatif Stresle İndüklenen Alzheimer Modeli, In: *7. Ulusal Tıp Fakültesi Öğrenci Kongresi*, Düzce, Turkey, 2016.
- E2.** Karaman E., Lüleci H. B., The synthesis and characterization of gelatin having functional properties, In: *7th National Veterinary Biochemistry & Clinical Biochemistry Congress*, Samsun, Turkey, 2015, pp. 58-58.
- E3.** Sarı İ., Cemek M., Topuzoğulları M., Kocaman T., Hazini A., Göneş S., Önül A., Karaman E., Konuk H. B., Practical detection of acid phosphatase and amylase, In: *7th National Veterinary Biochemistry & Clinical Biochemistry Congress*, Samsun, Turkey, 2015, pp. 56-56.
- E4.** Rasolonjatovo M. A., Cemek M., Şenel Ü., Kocaman T., Göneş S., Alpdağtaş S., Ortaç D., Konuk H. B., Karaman E., Investigation of the efficacy of natural and chemical solutions on removing pesticide residues in tomatoes, In: *7th National Veterinary Biochemistry & Clinical Biochemistry Congress*, Samsun, Turkey, 2015, pp. 57-57.
- E5.** Cemek M., Ortaç D., Karaca T., Büyükokuroğlu M. E., Özdemir Z. Ö., Kocaman T., Alpdağtaş S., Karaman E., Konuk H. B., Investigation of anti-ulcerogen effect of okra (*Abelmoschus esculentus* L.) on acute gastric mucosal damage, In: *7th National Veterinary Biochemistry & Clinical Biochemistry Congress*, Turkey, 2015, pp. 59-59.