



CURRICULUM VITAE

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| Name and Surname: | OZAN KILIÇKAYA |
| Academic Title: | Assistant Professor |
| Work Address: | |
| Email: | ozan.kilickaya@afsu.edu.tr |
| Foreign Languages Known (Score and Year): | English, B1 Intermediate, 2021 English, B1 Intermediate, 2020 English, B1 Intermediate, 2010 |
| Area of Expertise: | Pharmaceutical Biotechnology |

| Degree | Department/Program | University | Year |
|-------------------|---|--------------------|------|
| Post Doctorate | Molecular and Cellular Plant Physiology | | 2016 |
| Doctorate | Biyoteknoloji Bölümü | Ege University | 2014 |
| Master's Degree | İleri Teknolojiler Anabilim Dalı | Anadolu University | 2009 |
| Bachelor's Degree | Biyoloji | Anadolu University | 2006 |

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

Tetrahymena thermophila katalaz geninin mRNA ifadesinin polimeraz zincir reaksiyonu yöntemiyle çeşitli stresler altında kısmi karakterizasyonu

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

Asma bitkisinde (Vitis vinifera) ABC taşıyıcılarının izolasyonu ve moleküler karakterizasyonu

| Position Title | Workplace | Year |
|---------------------|---|----------------|
| Assistant Professor | Afyonkarahisar Health Sciences University | 2022-Continues |
| Assistant Professor | | 2015-2016 |
| Assistant Professor | Sivas Cumhuriyet University | 2014-2022 |

Roles in Projects:

1. Development of Bacterial ZnuA Protein-Targeted Antimicrobial Peptide Precursors, Project Supported by Higher Education Institutions, Kılıçkaya O. (Executive), Şahin S., Yıldız C., Ensari Y., 2024-Continues.

2. Fundamental Infrastructure for Phase I, Bioavailability/Bioequivalence, and Bioanalytical Studies: Validation of PharmaAFSU Computerized Systems, Project Supported by Higher Education Institutions, Kılıçkaya O. (Executive), Şahin S., 2025-Continues.

3. Development of a Diacylglycerol O-acyltransferase 1 (DGAT1)-Targeted Therapeutic Aptamer and Investigation of Its Efficacy in Glioblastoma Cells, Project Supported by Higher Education Institutions, Şahin S. (Executive), Kılıçkaya O., Ensari Y., 2024-Continues.

4. Enhancement of *Clostridium thalidense* Arginine Deiminase Enzyme Activity via Rational Design (Computer-Aided Protein Engineering), Emergency R&D Project of Group A, Kılıçkaya O. (Executive), Şahin S., Ensari Y., 2025-Continues.

5. Efficient Biotechnological Production of Retinol (Vitamin A) in Metabolically Engineered *Escherichia coli*, R&D Project of Group B, Kılıçkaya O., 2024-Continues.

6. Identification, Biotechnological Production, and Enhancement of Enzymatic Properties of Microbial Cysteinases via Protein Engineering for Use in Pancreatic Cancer Treatment, Project Supported by Higher Education Institutions, Kılıçkaya O. (Executive), Şahin S., Ensari Y., 2022-2025.

7. Investigation of the Effect of the AS1411 Nucleolin-Targeted DNA Aptamer on the Lipid Profile of U-87 Glioblastoma Cells via Untargeted Lipidomic Analysis, Emergency R&D Project of Group A, Şahin S. (Executive), Kılıçkaya O., 2023-2025.

8. Production of Microbial Arginine Deiminase Enzyme for Use in Amino Acid Deprivation Therapy, Emergency R&D Project of Group A, Tezcan H. S. (Executive), Kılıçkaya O., 2023-2024.

9. Production of a Halo-Thermotolerant Glycoside Hydrolase Enzyme for the Inhibition of Biofilm Formation in Therapeutic and Industrial Applications, Emergency R&D Project of Group A, Kılıçkaya O. (Executive), 2023-2024.

Administrative Duties:

1. Head of Main Science/Science Department - Afyonkarahisar Health Sciences University (2022 - Continues)

2. Head of Main Science/Science Department - Sivas Cumhuriyet University (2019 - 2022)

3. Head of Department - Sivas Cumhuriyet University (2019 - 2021)

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. Kılıçkaya O., Tosun M., Özpinar N., "First Molecular Investigation of VSSC-Linked Permethrin Resistance in Human Scabies in Türkiye", *Clinical and Experimental Health Sciences*, vol. 15, no. 1, pp. 90-94, 2025.

A2. Kara Kadıyıcılar P., Yılmaz Ö., Kılıçkaya O., Özsoz M. E. Ş., "Effect of Surface Chemistry Method in Electrochemical Genosensing for Optimum Detection of Pathogens", *Journal of The Electrochemical Society*, vol. 163, no. 7, pp. 293-299, 2016.

A3. Çakır Aydemir B., Kılıçkaya O., "Mitogen activated protein kinase cascades in *Vitis vinifera*", *Frontiers in Plant Science*, vol. 6, pp. 556, 2015.

A4. Çakır B., Kılıçkaya O., "Whole-genome survey of the putative ATP-binding cassette transporter family genes in *Vitis vinifera*", *PLoS ONE*, vol. 8, no. 11, 2013.

A5. Çakır Aydemir B., Kılıçkaya O., Olcay A. C., "Genome wide analysis of Aux IAA genes in *Vitis vinifera* cloning and expression profiling of a grape Aux IAA gene in response to phytohormone and abiotic stresses", *ACTA PHYSIOLOGIAE PLANTARUM*, vol. 35, no. 2, pp. 365-377, 2013.

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

B1. Kılıçkaya O., Ensari Y., Şahin S., Biotechnological Production and Characterization of *Thermohalobacter berrensis* Glycoside Hydrolase for Therapeutic and Industrial Applications, In: *EBDAYS IV. International Enzyme & Bioprocess Days*, Türkiye, 2023.

B2. Ensari Y., Kılıçkaya O., Improving Immunogenic Properties of L-asparaginases by In silico Tools, In: *13th International Conference on Protein Stabilization*, Bulgaria, 2021.

B3. Kılıçkaya O., In-silico Vaccine Design against *Brucella abortus*, In: *9th International Molecular Biology and Biotechnology Congress*, Kars, Türkiye, 2020.

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

C2. Chapters in national/international books written:

C2.1. Kılıçkaya O., Ensari Y., "Basics of Protein Engineering in Medical Biotechnology", *INTERDISCIPLINARY MEDICINE, HEALTH AND BIOSCIENCE RESEARCHES-2024*, Livre de Lyon, Lyon, 2024.

C2.2. Kara Kadıyıcılar P., Kılıçkaya O., Özsoz M. E. Ş., "Electrochemical DNA Biosensors in Food Safety", *Biosensors in Food Processing Safety and Quality Control*, CRC Press, 2011.

D. Articles published in national peer-reviewed journals:

D1. Şahin S., Cantürk Kılıçkaya P., Kılıçkaya O., "Silver(I)-N-heterocyclic carbene complexes challenge cancer; evaluation of their anticancer properties and *in silico* studies", *DRUG DEVELOPMENT RESEARCH*, vol. 82, no. 7, pp. 907-926, 2021.

D2. Faziloglu F., Cantürk Kılıçkaya P., Kılıçkaya O., "Terapötik Aptamerler", *International Journal of Academic Medicine and Pharmacy*, vol. 1, no. 1, pp. 5-9, 2019.