



Ayşe Nur AKMEHMET

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ABOUT ME

I graduated from Atatürk University's Department of Molecular Biology and Genetics in 2016. Then, I completed my master's degree at Recep Tayyip Erdoğan University. Since 2021, I have been pursuing my PhD in the Biotechnology Department at Karadeniz Technical University. At the same time, I have been working in primer and probe production at Sentebiolab Genetic Biotechnology since February 2022. As of December 2023, I have been continuing in the same company as a production manager.

WORK EXPERIENCE

Sentebiolab Genetik Biyoteknoloji A. Ş. – Ankara, Türkiye

Product manager

[04/12/2023 – Current]

I have a strong background in molecular biology, specializing in oligonucleotide synthesis using the Dr. Oligo Synthesizer, as well as primer and probe design for various genetic applications. My expertise includes HPLC purification to ensure high-quality oligonucleotides, along with extensive experience in PCR, qPCR, and Sanger sequencing for precise DNA analysis. I have worked with NGS analyzers, contributing to advanced sequencing projects, and have strong bioinformatics skills, utilizing tools like SnapGene, Ugene, and the NCBI database for sequence analysis and data interpretation. Additionally, I have hands-on experience in cloning techniques, supporting genetic engineering and molecular cloning projects. Beyond laboratory work, I excel in customer relations, providing technical support to researchers, ensuring they receive optimal solutions for their molecular biology needs.

Eryiğit Tıbbi Cihazlar A. Ş. – Ankara, Türkiye

Molecular researcher

[18/02/2021 – Current]

I have a strong background in molecular biology and protein biochemistry, with extensive experience in molecular cloning for gene manipulation and expression studies. My expertise includes enzyme production and protein purification using various chromatographic techniques, ensuring high-yield and high-purity protein isolation. I am proficient in PCR, agarose gel electrophoresis, and SDS-PAGE, which I use for DNA amplification, analysis, and protein characterization. Additionally, I have worked on enzyme mutation and activation studies, investigating structure-function relationships and optimizing enzymatic properties for specific applications. My skill set enables me to contribute effectively to research and development in molecular biology, enzymology, and protein engineering.

Sentebiolab Genetik Biyoteknoloji A. Ş. – Ankara, Türkiye

Researcher

[18/02/2021 – 04/12/2023]

I have extensive experience in molecular biology, particularly in oligonucleotide synthesis using the Dr. Oligo Synthesizer, as well as primer and probe design for various genetic applications. My expertise includes HPLC purification to ensure high-quality oligonucleotides, along with proficiency in PCR, qPCR, and Sanger sequencing for accurate nucleic acid analysis. I have been actively involved in kit production, including the development of a SARS-

CoV-2 qPCR Detection Kit, demonstrating my ability to design and optimize molecular diagnostic tools. Additionally, I have hands-on experience in detection kit development using qPCR devices, contributing to the advancement of molecular diagnostics. My skill set allows me to work effectively in both research and applied molecular biology settings, ensuring the development of high-quality assays and reagents.

 **Istanbul University, Faculty of Medicine, Internal Medicine Sciences, Molecular Genetics Laboratory – İstanbul, Türkiye**

Intern

[20/07/2018 – 21/08/2018]

During my internship, I gained hands-on experience in various molecular biology techniques, including DNA and RNA isolation, ensuring the extraction of high-quality nucleic acids for downstream applications. I became proficient in spectroscopic measurements for nucleic acid quantification and quality assessment. As part of my training, I participated in mutation screening studies, applying techniques such as PCR, RFLP, Multiplex PCR, and qRT-PCR to analyze genetic variations. Additionally, I developed skills in agarose gel electrophoresis for DNA fragment analysis and validation. This internship allowed me to strengthen my technical expertise and apply my knowledge in a laboratory setting, preparing me for future research and diagnostic applications.

HONOURS AND AWARDS

[11/03/2021]

2244-Industry-PhD Program I am receiving a scholarship through the TÜBİTAK-supported 2244 - Industry PhD Program. This program aims to promote collaboration between universities and industry, with a focus on training PhD students in fields critical for industrial innovation and technological advancement. As part of this initiative, doctoral researchers are trained while contributing to local production through the development of new products. My specific project, titled 'Development of New and Rapid Biological Indicators for Sterilization Systems and Training of Qualified Researchers in This Field,' will contribute to these goals. In this context, a new biological indicator will be developed as part of a doctoral thesis, representing an innovative step in both research and industrial applications.

EDUCATION AND TRAINING

PhD candidate

Karadeniz Technical University [18/02/2021 – Current]

City: Trabzon | Country: Türkiye

Master Degree

Recep Tayyip Erdoğan University [19/07/2016 – 14/04/2020]

City: Rize | Country: Türkiye | Final grade: 3.56 | Thesis: In vivo and In vitro Genotoxic Evaluation of Lithium Used in The Treatment of Bipolar Disorder via The Comet Assay

Undergraduate

Atatürk University [05/09/2012 – 04/06/2016]

City: Erzurum | Country: Türkiye

LANGUAGE SKILLS

Mother tongue(s): Turkish

Other language(s):

English

LISTENING B1 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Driving Licence: B