



Microbiome Enthusiast

Osman 'Ozzy' Kayali

Ymers gata 5, 215 36 Malmö, Sweden

+46736742876 kayaliosmann@gmail.com

[LinkedIn](#)

[0000-0002-4637-1603](tel:0000-0002-4637-1603)

Wet-Lab

Sample Process (collecting, storing...)



Nucleic Acid Extraction (DNA, RNA)



PCR (qPCR, RT-PCR, Digital PCR...)



Sequencing (Library prep ...)



Microscopy (Light, Florescent...)



Automated Liquid Handler (Opentrons)



Programming Skills

Python



R



SQL



Bash/Linux



MATLAB



Language

English



Turkish



Danish



MOTIVATION & PROFILE

As a dedicated researcher with a strong background in microbiome analysis and molecular biology, I am eager to contribute to the microbial and enzymatic transformation of biomaterials. My experience includes microbial cultivation, and the use of analytical techniques including spectrophotometry. Additionally, I have expertise in bioinformatics.

RESEARCH EXPERIENCE

Georgia Institute of Technology • Atlanta, USA • Full-time Aug 2021 – Aug 2023
Graduate Research Assistant Aug 2021 – Dec 2022

- Conducted in-depth metagenome sequence analysis on 'the Effects of Diet on Mouse Gut Microbiome Project', identifying key microbial taxa and their functional capabilities to inform future research directions.
- Prepared 16s rRNA libraries for sequencing gut, gill, and skin samples for the Effects of Salinity on Fish Microbiome Project, generating insights into the composition and diversity of fish-associated microbial communities.

Graduate Teaching Assistant Jan 2023 - Aug 2023

- Instructed 30+ students per semester and tools, fostering continuous skill development over 2 semesters.

Middle East Technical University • Ankara, Turkey • Full-time 2016 - 2019
Graduate Research Assistant

- TUBITAK 1002 Research Grant Project - Analysis of antibiotic resistance genes dissemination in hospital effluents.
- Conducted extensive DNA extraction and qPCR experiments on hospital effluents to analyze the dissemination of antibiotic resistance genes, resulting in the identification of high abundance of specific resistance genes.
- Analyzed and interpreted qPCR experiment data for multiple antibiotic resistance genes, providing valuable insights into the prevalence and potential risks associated with antibiotic resistant bacteria in hospital environments.
- Took part in an abandoned project and conducted FISH experiments and performed image analyses.

EDUCATION

Master of Science in Biology Georgia Institute of Technology • Atlanta, USA 2023

Doctor of Philosophy in Biology Georgia Institute of Technology • Atlanta, USA *incomplete*

Master of Science in Biotechnology Middle East Technical University • Ankara, Turkey 2019

Bachelor of Science in Molecular Biology and Genetics Cumhuriyet University • Sivas, Turkey 2015

Personal attributes

- Strong communicator
- Open, honest, transparent
- Self-driven
- Driven by purpose and results

References

Available upon request

Core competences

- Data Analysis
- Statistical Analysis
- Programming Skills
- Data Visualization
- Problem-Solving Skills
- Hypothesis Testing
- Troubleshooting
- Collaboration and Communication

Transferable Wet-Lab Skills

- Sample Processing (Any Type)
- Protein Extraction
- Purification and Expression
- Enzymatic Analysis

ABOUT ME

I consider myself a citizen of this world and a dedicated scientist for prosperity and the long healthier life of humankind. I bring a diverse perspective and a solution focused mindset to everything I do. Beyond my professional endeavors, I find joy in playing team sports like Quadball, Basketball and Rugby. With a primary focus on establishing a healthier future, I am a passionate advocate for healthy eating habits and committed to promoting healthier lifestyle practices in both my personal and professional life.