

MIRAY KURTOGLU

Molecular Biologist

Environmental Biotechnologist

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EDUCATION

MSc Biotechnology

2023 – 2025

[Izmir Institute of Technology](#) 120 ECTS in total - GPA 3.79/4.00

Izmir, Turkey

- **Master's Thesis**

Bioremediation of marine sediments contaminated by a mixture of persistent organic pollutants.

The research project was funded by the Scientific and Technological Research Council of Turkey (TUBITAK) under the Grant No: 122Y005.

Advisor: Assist. Prof Dr. Hale Demirtepe

- My areas of expertise encompass active contributions to sediment analysis efforts in Aliğa Bay microcosms, as well as translating taught laboratory protocols into detailed SOPs. As a project assistant on a TÜBİTAK ARDEB project, I delivered hands-on training to TÜBİTAK STAR scholarship recipients to ensure accurate protocol implementation. I also organized and coordinated the storage and QA/QC processes for all experimental data. Additionally, I attended the "FAIR Research Data Management" training at Izmir Institute of Technology under the PATTERN project, gaining beginner expertise in data sharing and sustainable storage standards.

BSc Molecular Biology and Genetics

2014 – 2018

[Izmir Institute of Technology](#) 240 ECTS in total - GPA 2.78/4.00

Izmir, Turkey

- **Undergraduate Research**

Molecular mechanisms conferring metalloid resistance and tolerance to yeast cells.

Traineeship

2017

[Palacký University & Institute of Experimental Botany AS CR](#)

Olomouc, Czech Republic

- **Supervisor: Jiří Voller PhD.**

During a three-month visit, I investigated the effects of plant hormones on the aging of *Caenorhabditis elegans*, mastering worm maintenance and chronological aging assay protocols. I also designed initial yeast chronological aging experiments using *Saccharomyces cerevisiae* culture techniques, then explored the feasibility of scaling these assays up for high-throughput screening by tackling logistical and methodological challenges.

BA American Culture and Literature

2020 – 2024

[Dokuz Eylul University](#) 240 ECTS in total - GPA 3.87/4.00

Izmir, Turkey

- Postmodern American Literature, Ecofeminist Theory, Gender Studies, Gothic Tradition

ACHIEVEMENTS AND SCHOLARSHIPS

Scholarship: Granted by the [Ministry of Youth and Sports](#) upon achieving high rankings in national university entrance exams.

LANGUAGES

Turkish: Native

English: Fluent

German: Elementary, Goethe Institute - A2

Spanish: Elementary, A1

SKILLS & INTERESTS

Skills: Advanced Molecular Biology Techniques, R Programming (Basic), Multivariate Data Analysis, Bioinformatics Tools

Research Interests: Microbial Biotechnology, Semivolatile Organic Compounds, ...

Interests: Dancing, Stray animals/Animal care, Linguistics, Humanities.