

İREM GAMZE ARIK

Ankara/Turkey

+905301556865

igamzearik@gmail.com

gamze.arik@metu.edu.tr

Education

Middle East Technical University (METU) Ankara/Turkey

March 2023 – Present

Master of Science in Biology

Middle East Technical University (METU) Ankara/Turkey

June 2017 – February 2022

Bachelor of Science in Biology

3.11/4.00

Adile Mermerci Anatolian Highschool Istanbul/Turkey

September 2012 – June 2016

84.37/100.00

Research Experience

Field Experience

- Attended sampling for Saline Lakes Project in 2022 field. Sampling was done in many cities around Turkey such as Konya, Burdur, Afyonkarahisar, Muğla, Adana and Mersin.
- Water sampling from lakes. Lake sediment coring. Fish sampling from lakes. Fish dissection for stomach, scale and muscle sampling. Benthic macroinvertebrate sampling from lakes.

(Prof. Dr. Erik Jeppesen, University of Aarhus, Denmark, at METU since January 2020)

18 May 2022-13 June 2022

Student Internship

- Determining possible effects of climate change on Central Anatolian Steppe plants with physio- ecological approaches. Within the scope of the project, we aim to indicate how dormancy conditions and germination of seeds, and seedling growth are affected by temperature, drought and salinity. The project is supported by The Scientific and Technological Research Council of Turkey (TÜBİTAK).

(Prof. Dr. Çağatay Tavşanoğlu, Functional Ecology Laboratory, Hacettepe University)

December 2020–March 2021

- Volunteering in mesocosm facilities for Saline Lakes Project. The project aims to study effects of climate change on saline lake ecosystems by establishing the first advanced experimental mesocosm system. The project is funded by TUBITAK BIDEB 2232 program.

(Prof. Dr. Meryem Beklioğlu, Limnology Laboratory, METU. Prof. Dr. Erik Jeppesen, University of Aarhus, Denmark, at METU since January 2020)

June 2021– February 2023

Work Experience

- Worked as a Molecular Biologist at BM Labosis BM Lab. Sis. Ltd. Şti.

October 2022– January 2023

Language, Computer and Laboratory Skills

Language Skills

Turkish - *Native*

English - *Advanced*

Japanese - *Beginner*

Computer Skills

MS Office

R Studio

Laboratory Skills

- **Cell Biology**
Permanent Slide Preparation (Paraffin Sectioning)
Cell Fractionation
Preparing Karyotypes from Mitotic Cells
Recognition of Basic Tissue Types in Vertebrates Under Microscope
- **General and Organic Chemistry**
Thin Layer and Gel Permeation Chromatography
Simple, Vacuum, Steam and Fractional Distillation
Standardization of Solutions UV Spectrophotometry
Dye Preparation Titration Methods
- **Microbiology**
Sterilization and Aseptic Techniques Staining Procedures; Simple Staining, Differential Staining, Endospore-Capsule Staining
Observing Living Cells Under Microscope by Hanging Drop Technique
Preparing (NA and NB) media
Identification of Microorganisms Using Differential and Selective Media Inoculation and Colony Transfer
Preparing Cell Culture
Spread, Streak and Pour Plate Techniques

Preparing Blood Smears

- **Genetics**

Genomic DNA Isolation
Agarose Gel Electrophoresis
Isolation of Plasmids
Bacterial Transformation
Total RNA Isolation
Restriction Enzyme Digestion
PCR
cDNA Synthesis
Studying Transmission Genetics

- **Insect Handling**

Drosophila melanogaster culture handling

- **Biochemistry**

Biochemical Calculations
Buffer Preparation
Titration of Amino Acids
Tissue Protein Extraction
Paper Chromatography
Column Chromatography
SDS-PAGE
Preparation of Mitochondria
DNA Isolation - Agarose

Academic Achievements

- Honor standing in 2 semesters. Given to students with GPA>3.00 out of 4.00
- High honor standing in 2 semesters. Given to students with GPA>3.50 out of 4.00

Extra-Curricular Activities

Student Organizations

Member of METU Biology and Genetics Society, 2016 – 2018

Member of METU LODOS Society, 2019-2020

Conference Organization Committees

Volunteer for the 10. Aykut Kence Evolution Conference, 2016 / Middle East Technical University