

Aytug Ulutas

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Education

2018/09 – 2022/06
Ankara, Turkey

Bachelor Degree in Molecular Biology and Genetics, Başkent University ✕
Department of Molecular Biology and Genetics
Thesis Title: "Comparative analysis of malondialdehyde and hydrogen peroxide amounts in Wild Type and SLIM1 mutant *Arabidopsis thaliana* under boron toxicity"
Thesis Supervisor: Assoc. Prof. Dr. Ceyhun Kayıhan
Grade Point Average: 3.76/ 4.00 (High Honour)

Professional Experience

2023/07 – present
Michigan, United States

Research Scholar, Michigan State University Department of Biochemistry and Molecular Biology
The Grotewold Lab ✕
Prof. Dr. Erich Grotewold

- Phenolic accumulation and diversity in maize lines and other plants

2022/10 – 2023/01
Ankara, Turkey

Internship, Middle East Technical University Department of Biological Sciences
Compevo, Comparative & Evolutionary Biology, METU Biology ✕
Prof. Dr. Mehmet Somel, Dr. Damla Kaptan

- Archaeogenetic analysis of Neolithic-era sheep populations
- Population Genomics Analysis

2022/08 – 2022/10
Ankara, Turkey

Internship, Middle East Technical University Department of Biological Sciences
Planutritech, Plant Nutritional Biotechnology ✕
Asst. Prof. Dr. Emre Aksoy

- Genome-Wide Association Studies on wheat and soybean plants under iron deficiency
- Comparative analysis of iron deficiency and boron toxicity on *Arabidopsis thaliana* and *Glycine max*

2021/07 – 2021/09
Cologne, Germany

Erasmus Internship, Max Planck Institute for Plant Breeding Research
Novikova Lab ✕
Dr. Polina Novikova

- Evolutionary history and population structure of aquatic flowering plants genus *Potamogeton*

2019 – 2021
Ankara, Turkey

Undergraduate Researcher, Başkent University
Assoc. Prof. Dr. Ceyhun Kayıhan

- NLA gene-associated phosphate homeostasis in *Arabidopsis thaliana* under boron toxicity.
- Comparative molecular analysis in Wild Type and SLIM1 mutant *Arabidopsis thaliana* under boron toxicity

2019/11 – 2020/01
Ankara, Turkey

Undergraduate Researcher, Başkent University
Prof. Dr. Özlem Darcansoy İşeri, Ege Soydemir

- A member of Baskent University iGEM team

Awards and Scholarships

2022

High Honour for Graduation GPA by Başkent University
GPA: 3.76/4.00

2021

Erasmus+ Traineeship Grant by European Union
\$1300

Skills

Molecular Biology Research**Techniques**

Cell Culture, DNA/RNA Extraction, Genetic Engineering, Ancient DNA, Microbiology, Biochemical Analysis

Programming Language

R, C, Unix, Python

Statistical Analysis

Statistical Package for the Social Sciences (SPSS)

Plant Tissue Culture

Arabidopsis thaliana, Glycine max, Common Bean, Wheat

In-Silico Analysis

Genevestigator, CLC Genomics Workbench, MEGA

Microsoft Office Programmes

MS Word, MS Excel, MS PowerPoint

Interests

- Molecular Genetics
- Molecular Evolution
- Bioinformatics
- Genetic Engineering
- Plant Biotechnology
- Omics Technologies

Organizations

2022/11 – present

Greenpeace Mediterranean Turkey [↗](#)*Volunteer*

2022/10 – present

The Hope Foundation for Children with Cancer [↗](#)*Volunteer*

2021/11 – 2022/07

Deepli GmbH [↗](#)

Germany

Ambassador

2020 – 2022

Blog Auraxis [↗](#)*Editor/ Author***Languages**

Turkish

Native

English

IELTS: 6.0

Competent

German

Beginner

References

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emreaks@metu.edu.tr, +90 536 585 87 25**Dr. Polina Novikova**, *Group Leader*, Max Planck Institute for Plant Breeding Research
pnovikova@mpipz.mpg.de, +49 221 506 2477**Dr. Damla Kaptan**, *Post-doc*, Middle East Technical University Department of Biological Sciences
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