

# Zeynep Dođru

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## EDUCATION

From Jun 2023	Ph.D. Candidate at the group of Dr. Julia Kurth, Philipps-Universität Marburg	Marburg, Germany
Aug 2019 – Aug 2021	M.Sc. Microbiology, Radboud University	Nijmegen, Netherlands
Aug 2014 – Jun 2019	B.Sc. Molecular Biology and Genetics, Bilkent University	Ankara, Turkey

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## EXPERIENCES

Oct 2022 – May 2023 Procurement Executive, Al-Çelik A.Ş. Izmir, Turkey

Jan 2021 – Jul 2021 Research Intern, Netherlands Instituut voor Ecologie Wageningen, Netherlands

The systems for investigating the interactions between bacteriophages and the soil solid phase were tested under two aspects using T7 bacteriophage as model organism.

- Different buffers for bacteriophage extraction from the soil were investigated. The recovery of T7 phage from different extraction buffers was quantified by soft-top plaque assay.
- A trial was conducted to measure the mobility of bacteriophages in soil. Artificial soil habitats in small columns were built with and without flaxseed mucilage to mimic root mucilage in rhizosphere. Two different transportation strategies of soil viruses were investigated.

Jan 2020 – Aug 2020 Research Intern, Radboud University Nijmegen, Netherlands

Methanotrophic activity in urban waterways of Amsterdam and the effects of seasonal temperatures to community composition and methane consumption in Artis canal wall biofilm were investigated.

- The effects of lanthanum were tested for optimal methanotrophic activity.
- 16S rRNA gene amplicon sequencing followed with phylogenetic analyses was used for microbial community identification in different temperatures.

Sep 2018 – Jan 2019 Undergraduate Research Intern, Bilkent University Ankara, Turkey

The effects of specific mutations in the catalytic subunits (p110 $\alpha$  and p110 $\beta$ ) of Phosphoinositide 3-Kinase (PI3K) pathway were studied.

- Cloning of oncogenic p110 $\alpha$  E545K and p110 $\beta$  N553S mutants.

Jun 2018 – Aug 2018 Summer Research Intern, Ege University Izmir, Turkey

- The optimal solid-state fermentation culture for the industrial production of *Aspergillus niger* was planned and prepared to be used in the bakery sector.
- Xylanase enzymes were isolated from *Aspergillus niger* and the activity of the enzyme is analysed.

Jun 2017 – Aug 2017      Summer Intern, Ege University      Izmir, Turkey

- Determined the antagonistic features of *Trichoderma sp.* for the phytopathogenic fungus *Rhizoctonia solani* via dual culture method.

Feb 2017 – May 2018      MATLAB Teaching Assistant, Bilkent University      Ankara, Turkey

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## EXTRA-CURRICULAR ACTIVITIES

Aug 2020 – Sep 2021      Active Member, BeeVee Biologists Association Nijmegen      Nijmegen, Netherlands

Sep 2014 – Jun 2019      Active Member, Bilkent Molecular Biology Genetics Society      Ankara, Turkey

Oct 2015 – Jun 2019      Volunteer, Bilkent Social Awareness Projects Club      Ankara, Turkey  
Project “Hearts:1 Leukemia:0”

- Helped organize 3+ events in order to raise awareness to leukemia.

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## SKILLS

### Languages

Turkish (Native)  
English (Advanced)  
German (Upper Intermediate)

### Computer

Microsoft Office  
R Programming  
MATLAB Programming

### Laboratory

DNA, RNA & Protein Isolation  
Gel Electrophoresis (Nucleic Acid & SDS-PAGE)  
PCR  
Prepare & monitor media cultures (broth and plate)  
Sterile Technique Practice (laminar flow hood, autoclave)  
Media Preparation & Disposal  
Bacterial/Viral Culture Maintenance  
Bacteriophage Plaque Assay  
Gas Chromatography  
Ion Exchange Chromatography  
Freeze-Drying  
Centrifuges: standard & high speed  
Light Microscopy  
Basic GMP Knowledge  
Scientific writing  
Troubleshooting

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## HOBBIES

Digital Art and Illustration  
Volunteering  
Photography