Anil Can ÖNDER

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Education

University of Copenhagen 2023 – Present

Plant Molecular Sciences Copenhagen, Denmark

Ph.D. Candidate

Izmir Institute of Technology 2019 - 2022

Biotechnology Izmir, Turkey

M.Sc. Degree

Izmir Institute of Technology 2013 - 2018

Molecular Biology and Genetics Izmir, Turkey

B.Sc. Degree

University of Latvia Spring 2016

Erasmus+ Exchange Student Riga, Latvia

UPSC, Swedish University of Agricultural Sciences Summer 2016

Forest Genetics and Plant Physiology

Internship

Umeå, Sweden

Research Experience

The Persson Lab 10/2023 – Present

Ph.D. Candidate Copenhagen, Denmark

Ph.D. student, investigating carbon allocation of plants in neighbor

detection conditions

Supervisor: Prof. Staffan Persson

PlantaLab 09/2022 - 02/2023

Postgraduate Researcher Salerno, Italy

Postgraduate trainee of *C. annuum* seed priming with nanoparticles

(nanopriming).

Advisor: Prof. Alfredo Ambrosone

BioNanoLab 02/2021 - 07/2012

Graduate Researcher Izmir, Turkey

M.Sc. student, investigating biomedical nanoparticle characterization and optimization of nanodispersions.

and optimization of nanodispersions.

Supervisor: Assoc. Prof. Ceyda Öksel Karakuş **Thesis:** Optimizing the dispersion of ceramic nanoparticles and

assessing the role of aggregation in mediating biological activity

The Doğanlar/Frary Lab for Plant Molecular Genetics and Breeding

Undergraduate Researcher

Undergraduate student, in the project entitled "Development of SNP markers for N gene conferring resistance to Root-Knot Nematodes in Pepper".

Supervisors: Prof. Anne Frary and Prof. Sami Doğanlar

UPSC, The Department of Forest Genetics and Plant Physiology

Undergraduate Intern

Summer internee, in the project entitled "Role of Neutral Alkaline Invertases in Aspen Wood Formation".

Supervisor: Prof. Totte Niittylä

Summer 2016 Umeå, Sweden

09/2015 - 02/2017

Izmir, Turkey

Work Experience

University of Copenhagen, PLEN

Teaching Assistant

Teaching assistant at PLEN, Section for Glycobiology.

09/2023 - Present Copenhagen, Denmark

Türkiye Sağlık Enstitüleri Başkanlığı (TÜSEB), Turkish Ministry of Health

Molecular Biologist

Volunteer molecular biologist and Lab crew leader (both) at İzmir Halk Sağlığı Laboratuvarı, Covid-19 Detection Center (1 April 2020 - 7 July 2020) and İstanbul Dr. Lütfi Kırdar City Hospital, Covid-19 Detection Laboratory (7 July 2020 - 15 November 2020).

04/2020 - 11/2020 Izmir, Turkey

Istanbul, Turkey

Publications & Presentations

Publications

Cappetta, E.; Del Regno, C.; Conte, M.; Castro-Hinojosa, C.; Del Sol-Fernández, S.; Vergata, C.; Buti, M.; Curcio, R.; Onder, A.; Mazzei, P.; Funicello, N.; De Pasquale, S.; Terzaghi, M.; Del Gaudio, P.; Leone, A.; Martinelli, F.; Moros, M.; Ambrosone, A. An Integrated Multilevel Approach Unveils Complex Seed-Nanoparticle Interactions and Their Implications for Seed Priming. ACS Nano **2023**, 17 (22), 22539–22552. doi.org/10.1021/acsnano.3c06172

Onder, A. C.; Tomak, A.; Oksel Karakus, C. Optimizing the Dispersion of Calcium Phosphate Nanoparticles for Cellular Studies Using Statistical Design of Experiments. Ceramics International 2023, 49 (16), 26890-26899. doi.org/10.1016/j.ceramint.2023.05.226

Presentations

Poster Presentation

International Congress of Toxicology 2022

Maastricht, Netherlands

Poster Presentation

Utrecht, Netherlands

Young Researchers Symposium in Plant Photobiology 2024

BEST POSTER AWARD

2022

2024

Languages: Turkish (Native), English (Proficient), Spanish (Independent), Italian (Independent)

Coding: Front-end web development (HTML, CSS, JavaScript), R (Proficient), Python (Proficient)

Wet Lab: Alcohol insoluble residue extraction, agarose gel electrophoresis, Anthrone assay, bacterial counting techniques, Bradford assay, mammalian cell culture, cell staining techniques, cell viability assays (LDH, MTT, WST-1), column chromatography, Isolation techniques (DNA, RNA, Protein), dynamic light scattering applications, enzymatic activity assays, flow cytometry, Klason lignin, microscopy (bright field, fluorescence), nanoparticle dispersion, PCR techniques (PCR, RT-qPCR), protein purification, restriction digestion and ligation, SDS-PAGE, seed nanopriming, trimethyl derivatization, Updegraff analysis, western blot

Cloning: Blue-white screening, gateway cloning, Gibson assembly, GreenGate cloning, LR cloning, plasmid transformation methods (heat shock, electroporation), sub-cloning, TA cloning

Plant Oriented: Plant growth maintenance (*Arabidopsis, Brassica rapa, Populus tremula*), plant crossing (*Arabidopsis*), plant phenotyping (*Arabidopsis, Brassica rapa, Populus tremula*), plant transformation (*Arabidopsis*)

Computational: Adobe PhotoShop (proficient), CLI applications (BLAST, MSA), data clustering (HCA, LDA), data mining, factorial design of experiment (2-level factorial, Plackett-Burman, Taguchi), multivariate statistical analyses (PCA, PCR, CCA, MDS, FA), PCord5 analyses, response surface design of experiment (central composite, box-behnken)

Teaching

B.Sc. Thesis: Effects of hormones on the internal biomass distribution of plants growing in dense populations

02/2025 - 07/2025

Copenhagen, Denmark

Project co-supervisor
University of Copenhagen

Basic Plant Biology Course

12/2024

Teaching assistant

Copenhagen, Denmark

University of Copenhagen

Biochemistry II Course

12/2024

Teaching assistant

Copenhagen, Denmark

University of Copenhagen

Project in Experimental Molecular Biology (PEMB)

04/2024 - 07/2024

Project co-supervisor

Copenhagen, Denmark

University of Copenhagen

BE556 Nanotoxicology

Autumn 2022

Teaching assistant

Izmir, Turkey

Izmir Institute of Technology