BIHTER ÖZDEMIR-AYGENLI SCIENTIST, PhD CANDIDATE IN BIOCHEMISTRY

CONTACT

linkedin.com/in/bihter-aygenli

TECHNICAL SKILLS

HPLC TECHNIQUES

Affinity chromatography Ion-exchange chromatography Column chromatography

BIOCHEMICAL TECHNIQUES PCR

Gene engineering techniques Protein Expression SDS-PAGE Enzymatic activity assays Nanopore sequencing Negative Staining EM

CELL CULTURE

Cell viability assays Transfection Co-IP Wound healing assays

SOFT SKILLS

Communications-

collaborations, Poster presentations **Leadership**-Teaching Assistant, Supervised 3 Undergraduate students, SciGether, **Education Coordinator** Yeditepe University Biotechnology **Society Chair**

PROFILE

Results-oriented biochemistry specialist skilled in protein purifications, enzymatic assays, cloning, cell culture and HPLC techniques. Proficient in diverse lab methodologies for biomolecule extraction and analysis. Passionate about translating scientific discoveries into real-world impact. My goal is to thrive in a more interactive landscape, leveraging my skills to drive innovation in the life sciences.

EXPERIENCE

HELMHOLTZ ZENTRUM MUNCHEN • SEPT 2020-APR 2024

Doctoral Researcher, Institute of Functional Epigenetics, Munich Germany

- Coordinated an international research collaboration bridging Paris and Munich.
- Expertise in the expression, purification of various enzymes, and conducting in-vitro enzymatic activity assays for functional characterization, notably focusing on E3 enzyme.
- Applied multiple gene editing techniques, such as transfection and cloning, to explore the enzymatic activity of E3 enzyme.

YEDITEPE UNIVERSITY • SEPT 2012- JULY 2020

Graduate Research Assistant, Genetics and Bioengineering Department, Istanbul, Turkey

- Explored the synergistic effects of Berberine and Sorafenib on Hepatocellular carcinoma cell lines through comprehensive investigation.
- Mass- spectrometry based novel biomarker discovery in ALS and Alzheimer disease by extracellular vesicles and exosomes.

Graduate and Undergraduate Teaching Assistant, Genetics and Bioengineering Department, Istanbul, Turkey

GBE111-Biology & GBE302-Biochemistry

 Preparation and maintenance of the schedules and instructions for each lab session. Supervise and oversea laboratory-related educational materials (quiz, assignment, midterm, and final exams).

ASTON UNIVERSITY • JUNE 2016- AUG 2016

Intern, School of Biosciences, Birmingham, UK

• Autophagy analysis of *C. Elegans* manipulated by using RNAi targeting mTOR and Raptor.

IT SKILLS

Proficiency in MS-Office

Analysis with R-programming, GraphPad, SnapGene, ImageLab, ImageJ,

User of Mascot, MaxQuant, Unicorn Software

LANGUAGE

Turkish- Mother Tongue English- Fluent German- Beginner

HONORS

Selected representative of IRTG1064 program in the Spetses Summer School Biotechnology Graduate program, High Honors Degree, Yeditepe University

INTERESTS

SciGether, Education Coordinator, Since 2020

Yeditepe University Biotechnology Society, Chair, 2015- 2017

EDUCATION

LUDWIG MAXIMILLIAN UNIVERSITY • SEPT 2020-APR 2024

PhD, Doctor of Philosophy, Biology Department, Munich, Germany

Thesis Title: Functional Characterization of E3 ubiquitin ligase UHRF1

YEDITEPE UNIVERSITY • SEPT 2017- JULY 2020

MSc, Master of Science, Genetics and Bioengineering Department, Istanbul, Turkey

Thesis Title: Investigation of Combinatory Effects of Sorafenib and 3-Bromopyruvate on Hepatocellular Carcinoma Cell Line

YEDITEPE UNIVERSITY • SEPT 2012- JUNE 2017

BSc, Bachelor of Science, Genetics and Bioengineering Department, Istanbul, Turkey

Thesis Title: Adhesion and Migration Potential of Everolimus Resistant Kidney Cancer Cells

TRAININGS

Biotechnology Quality Manager Certificate, Workshop, Dr, Christian Grothe- Westrick

Good Scientific Practice, HelmholtzZentrum München

Introduction to R, Core Facility Statistical Consulting, Helmholtz Zentrum München

Certificate of Animal Use in Experimental Research (Certificate Number: YUDHKXII/32)

PRESENTATIONS

14th Munich Chromatin Day, Oral Presentation, Munich, Germany

• Functional Characterization of E3 ubiquitin Ligase UHRF1 Spetses Summer School- Cancer Epigenetics - Principles, Applications and Single-Cell Resolution, *Poster Presentation*, Spetses, Greece

Functional Characterization of E3 ubiguitin Ligase UHRF1

Experimental Biology Congress, Poster Presentation, San Diego, USA

Proteomic Analyses of Plant Exosomes

PUBLICATIONS

Saulius Lukauskas, Andrey Tvardovskiy, Nhuong V. Nguyen, ..., **Bihter Özdemir Aygenli**, Scarlett Dornauer, ..., Till Bartke, "Decoding Chromatin States by Proteomic Profiling of Nucleosome Readers" *Nature*, 2023.

Kırbaş, OK.,, **Ozdemir B.**, .. and Taşlı PN., "Optimized Isolation of Extracellular Vesicles from Various Organic Sources Using Aqueous Two-Phase System" *Scientific Reports*, 2019.