



Naciye Nisa KIRAN

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EDUCATION AND TRAINING

31/08/2020 – 05/07/2024 Trabzon, Türkiye

MOLECULAR BIOLOGY AND GENETICS BACHELOR'S DEGREE Karadeniz Technical University

Website <https://www.ktu.edu.tr/> | **Level in EQF** EQF level 6

04/09/2024 – CURRENT Trabzon, Türkiye

MEDICAL BIOLOGY MASTER'S DEGREE Karadeniz Technical University

Website <https://www.ktu.edu.tr/> | **Level in EQF** EQF level 7

LANGUAGE SKILLS

Mother tongue(s): **TURKISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Social Media | Microsoft Office | Microsoft Word | basic skills in graphic (canva) | laboratory techniques | molecular biology | genetics | scientific research methodology | use laboratory equipment | work as a team | use a computer | understand spoken English | English | teamwork principles

PROJECTS

05/04/2024 – 19/09/2024

INVESTIGATION OF THE CYTOTOXIC EFFECT OF OLIVE LEAF EXTRA TO A THERMAL POWER PLANT ON HUVEC AND BEAS 2B CELLS

In this study, morphological changes in olive leaves collected from areas at three different distances from the Muğla-Yatağan Thermal Power Plant were examined for potential cytotoxic effects on human cells. HUVEC and BEAS-2B cells were cultured using 2D cell culture techniques, counted with Trypan Blue using a Countess device, and seeded into 96-well plates. Olive leaf extracts were applied to the cells for 24 and 48 hours. Cytotoxicity was assessed via the MTT assay, and absorbance was measured at 570 nm using a spectrophotometer. Results were analyzed and visualized as percentages and graphs using Excel.

WORK EXPERIENCE

BASIC MEDICAL SCIENCES, FACULTY OF MEDICINE, KARADENİZ TECHNICAL UNIVERSITY – TRABZON, TÜRKİYE
INTERN – DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY DEPARTMENT, BASIC MEDICAL SCIENCES, FACULTY OF MEDICINE, KARADENİZ TECHNICAL UNIVERSITY – 04/08/2023 – 15/09/2023

Tissue Fixation

Tissue Cutting

Hematoxylin Eosin Staining
Masson's Trichrome Stain
T.U.N.E.L Stain

VOLUNTEERING

03/04/2023 – 21/04/2023 Trabzon/Türkiye

Intern – Department of Medical Microbiology, Basic Medical Sciences, Faculty of Medicine, Karadeniz Technical University

Performed bacterial identification, Gram staining, and antimicrobial susceptibility testing in the Department of Medical Microbiology.

TECHNICAL SKILLS

Laboratory Techniques

Cell Culture & Cytotoxicity

- 2D Cell Culture (HUVEC, BEAS-2B, fibroblasts, etc.)
- Primary and Immortalized Cell Culture
- Cell Seeding and Passaging
- Cell Counting (Trypan Blue, Countess, Hemocytometer)
- MTT Assay / Cytotoxicity Assays
- Live/Dead Staining
- Flow Cytometry (cell size, granularity, viability)

Molecular Biology Techniques

- DNA / RNA Extraction
- PCR / qPCR / RT-qPCR
- Gel Electrophoresis (Agarose, Polyacrylamide)
- Restriction Enzyme Digestion
- Cloning Techniques
- Cell-Free Lysate Preparation
- Bradford Protein Assay / BCA Protein Assay
- Western Blotting (Protein Detection)
- Coomassie Brilliant Blue Staining

Microbiology Techniques

- Bacterial Identification
- Gram Staining
- Antimicrobial Susceptibility Testing
- Microbial Culture and Isolation
- Preparation of Media and Agar Plates

General Lab Skills

- Preparation of Buffers and Solutions
- Pipetting and Serial Dilutions
- Sterile Technique / Aseptic Handling
- Data Analysis and Graphing (Excel, GraphPad Prism)
- Lab Safety and Waste Disposal