



Randa Yacoub



WORK EXPERIENCE

[01/03/2024 – Current] **PhD programme in Biotechnology in Translational Medicine**

University of Genoa, San Martino Hospital

City: Genova | **Country:** Italy

[19/04/2022 – 18/07/2022]

**Secondment, H2020-MSCA-RISE-2019 – cONCRete (GA 872391),
“DevelOpment of Cancer RNA TherapEutics”.**

*From PERCUROS B.V. to Josep Carreras Leukaemia Research Institute (IJC)
Cancer Epigenetics Group*

City: Badalona | **Country:** Spain

-Diffuse intrinsic pontine glioma (DIPG) and Lymphocyte cell lines culture and drug treatment, MTT assays for IC50 calculation

-DNA/RNA/Protein extraction, PCR, qPCR, sequencing PCR, Maxiprep and Miniprep, Bacterial transformation, Cell line transfection, Western blot, Antibody-mediated cytotoxicity assay (ADCC)

[01/2018]

Training in Forensic Analysis

ISF - Internal Security Forces (Major Hany Kallasy and Colonel Nazih Kobrosly)

City: Beirut | **Country:** Lebanon

-Fingerprint and Paint Analysis

-Ballistics Analysis

-Bio-metrics (Voice and facial comparison)

[28/02/2021 – 30/11/2022]

Research Grant Writing Assistant

Percuros B.V.

Country: Netherlands

-Technical and scientific writing for Horizon2020 European proposals

-Editing and proofreading scientific proposals

[31/03/2019 – 30/11/2020]

Internship at Epigenetics Lab

ICS Maugeri Hospital

City: Pavia | **Country:** Italy

-RNA/DNA/PBMC/Plasma extraction of OSA(Obstructive Sleep Apnea) and Post COVID19 patients from blood samples.

-Pyrosequencing analysis for methylation level quantitation at specific sites, used for biological age estimation.

-cDNA synthesis and RT-PCR to quantify ACE2 and DPP4 gene expression.

-ELISA assay for soluble ACE2 quantification in blood

-DNA Bisulfite Conversion and PCR-HRM analysis for ELOV2 gene methylation

-Cell cultures of pulmonary fibroblasts and B-Gal assay to study senescence related to glucose concentration, radiation, and aging

[2007 – 2021] **Private tutoring for Middle and High school students**

City: Beirut | **Country:** Lebanon

- English Language and Scientific Courses

[2016 – 2018] **Internship in Trace Analysis, Death Investigation, Forensic Toxicology and Forensic DNA Analysis**

American University of Science and Technology

City: Beirut | **Country:** Lebanon

-Trace Material Analysis (Hair, Fiber, Glass, Toolmark,...)

-Physical Trace Simulations (Biological Materials, Narcotics, Explosives and Gunshot Residues,...)

-Post-mortem Investigation (Morgue, Anthropology, Odontology, Fingerprint, Histology,...)

-Drug Screening and Application of Chromatographic Techniques in Analysis and Identification of Controlled Substances (Drugs, Pesticides, and Explosives)

-Forensic DNA Analysis, DNA Profiling, and Genetics

EDUCATION AND TRAINING

[02/11/2023 – 04/11/2023]

"Single Nucleotide Polymorphism (SNP) Detection and Analysis using NGS" Workshop

A Nanotechnology Platform <https://nanoschool.in/>

1. Understanding SNP Basics, detection, quality control and preprocessing
2. Bioinformatics Tools
3. Genomic Annotations and Population Genetics
4. Case Studies and best practices
5. Hands-On Analysis

[21/10/2023 – Current]

Clinical Research Associate Certificatio Course

Clinical Research Training - Clinical Research Certification CCRPS <https://ccrps.org>

Clinical research associate certification test covers topics like clinical research protocols, FDA regulations, Good Clinical Practice (GCP), ICH guidelines, data management and more.

[17/10/2022 – 17/04/2023]

Intensive Italian Language Course B1

Italian Language Center

Country: Lebanon |

[04/2023]

IELTS Certificate

British Council

City: Genova | **Country:** Italy | | **Final grade:** 8.0 / 9.0

[09/2018 – 12/2020]

Masters in Molecular Biology and Genetics

University of Pavia

City: Pavia | **Country:** Italy | | **Final grade:** 107/110 | **Thesis:** Correlation between biological age and ACE2/DPP4 expression in Obstructive Sleep Apnea patients

[05/2019]

Course in Basic Life Support and Defibrillation Certificate (BLSD)

City: Pavia | **Country:** Italy |

[09/2015 – 08/2018]

BS degree in Clinical Laboratory Sciences - Emphasis Forensic Science

Faculty of Health Sciences - American University of Science and Technology

City: Beirut | **Country:** Lebanon | | **Final grade:** 3.67/4.00 (Deans honour list with Distinction)

[09/2016 – 02/2017] **ICDL (International Computer Driving Licence) Certificate**

American University of Science and Technology

City: Beirut | **Country:** Lebanon |

[01/2016] **First Aid Training Certificate**

Lebanese Red Cross

City: Beirut | **Country:** Lebanon |

[09/2011 – 06/2015] **Architectural Engineering**

Lebanese University

City: Beirut | **Country:** Lebanon |

[06/2011] **Lebanese Baccalaureate Certificate of Secondary Education - Life Sciences**

Marjeyoun National College

City: Marjeyoun | **Country:** Lebanon | | **Final grade:** 17.15/20 | **NQF Level:** 6th on Southern district

LABORATORY SKILLS

Laboratory Skills

-Cell Cultures, RNA/DNA Extraction, PCR, RT-PCR, Pyrosequencing, PCR-HRM Analysis, ELISA Assay, B-GAL Assay.

-SDS-PAGE and Gel electrophoresis

-Mass spectrometry (MS), Gas Chromatography (GC), Thin Layer Chromatography (TLC), High Performance Liquid Chromatography (HPLC), L-L extraction, Solid-phase extraction (SPE), Atomic Absorption and Atomic Extraction,

-Immunoassays for biological traces and drugs.

-Traceological and toxicological analysis for paints, explosives, and drugs.

DIGITAL SKILLS

My Digital Skills

Microsoft Office | RStudio (beginner level) | ECDL / ICDL Certification | ec.europa portal

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

English (Proficient)

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Italian B1

LISTENING B1 READING B1 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

French A2

LISTENING A2 READING A2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

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

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Excellent written and verbal communication skills gained from presentations and writing detailed reports
- Time management, Ability to work under pressure, Good presentation skills
- Strong commitment to team environment and independent dynamics
- Ability to contribute expertise and follow leadership directives at appropriate times

DISCLAIMER

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