

Aya Hicham Mortada

Agricultural Engineer

MS qualified agricultural engineer with an excellent knowledge and experience in land preparation, land cultivation, agricultural labs, and genetic analysis.

Expertise in Lab work, DNA extraction, purification, and analysis. Land preparation and cultivation

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Core Competencies:

R Program | Q GIS | Microsoft Office | SPSS | Laboratory works | DNA Extractions, DNA Sequencing, DNA Analysis | Metabolite Extraction |

Work Experience

Trainee Agricultural Engineering Jana Agricultural Institute (July, 2018/September, 2019)

Beirut / Private Agricultural Institute

- Preparing of flower nurseries.
- Conduction of Irrigation System.
- Production and Trading Strategies.

Trainee Agricultural Engineering ICARDA (September, 2020/December, 2021)

Beirut and Terbol/ International Genebank for the Dry Lands

- Cultivation and Production of several types of cultivated crops in dry areas.
- Conservation and preservation strategies.
- Genetic analysis of the conserved seeds within this genebank.

ERASMUS + K 107 Student Mobility to Catania University to be trained on Germplasm Assessment Approaches (1 March to end of July 2022)

Catania, Sicilia, Italy

- Surveying and collecting plant materials.
- Mapping and distribution of plant genetic material.
- Evaluating species richness; density and diversity indices.
- Assessing and monitoring threats to the wild vegetable's genetic resources.
- Phenotyping using key confirmed.
- Genotyping using molecular markers.
- Genebanks gap analysis.

Personal Projects

Rationalization Using DNA Sequencing of Wheat Collections in ICARDA and CIMMYT as a New Approach in Genbank Management (January, 2020/December 2021)

Preparation of the present data.

Dealing with all characters that may affect the accessions found in both genebanks.

Decreasing the cost on both genebanks.

Importance of genomics in plants.

Characterization of Wheat within ICARDA (January, 2020/December 2021)

Preparation of the land: irrigation system, treatment of the land from diseases and weeds.

Cultivation of wheat accessions.

Harvesting

Characterization: Environmental Characterization, Genomic Characterization using SSR.

Education

Master 2 in Agricultural Engineering Plant Production

Lebanese University, Faculty of Agricultural Engineering / Beirut

10/2020-2/2022

Bachelor of Science in Agricultural Engineering

Lebanese University Faculty of Agricultural Engineering / Beirut

10/2018-7/2020

Bachelor of Science in Pure Biology

Lebanese University Faculty of Science / Beirut

9/2015-7/2019

Languages

Arabic (Native Proficiency) | **English** (Full Professional Proficiency/ Level B2 in IELTS)

References

Prof. Lamis Chalak: ██████████ (head of agricultural department in Lebanese university)

Prof. Ferdinando Branca: ██████████ (department of agriculture in University of Catania)

Dr. mariana Yazbeck: ██████████ (head of ICARDA Genebank)

22/07/2022