



## AYA MORTADA

📍 **Address:** Via Etnea, 440, 95125, catania, Italy

📍 **Address:** trans street, beirut, Lebanon

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**Date of birth:** 13/09/1997 **Nationality:** Lebanese

### ABOUT ME

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.

### WORK EXPERIENCE

[ 01/04/2022 – 30/11/2022 ] **Agricultural biotechnology research scientist**

**Catania University**

**City:** Catania,

**Country:** Italy

**Name of unit or department:** DI3A: DEPARTMENT OF AGRICULTURE, FOOD AND ENVIRONMENT

**Main activities and responsibilities:**

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

[ 24/06/2022 ] **Workshop: Growing and Protecting Sicilian Vegetable Biodiversity, and Enhancing it**

**Student**

**City:** Agrigento,

**Country:** Italy

[ 01/08/2020 – 30/09/2021 ] **Research scientist, agriculture**

**International Center for Agricultural Research in the Dry Areas: ICARDA** <https://www.icarda.org/>

**City:** Beirut, Terbol,

**Country:** Lebanon

**Main activities and responsibilities:**

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

### EDUCATION AND TRAINING

[ 01/09/2022 – 30/11/2022 ] **Research Grant**

**University of Catania**

**Address:** Via Etnea, 440, 95125, catania, Italy

**Thesis:** Evaluation of wastewater use for the cultivation of tomato and lettuce taking into account several experimental factors such as: types of dripping wings, ratio between hypogean and epigeal biomass, yield components, use of mycorrhizae in different genotypes

[ 01/04/2022 – 31/07/2022 ] **ERASMUS + K 107 Student Mobility to Catania University to be trained on Germplasm Assessment Approaches**

**University of Catania** <https://www.unict.it/>

**Address:** Piazza Università, 2, 95131, CATANIA, Italy

**Field(s) of study:** Agriculture, forestry, fisheries and veterinary : *Agriculture not further defined* ,  
Generic programmes and qualifications

**Main subject / occupational skills covered:**

- 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.

[ 01/08/2020 – 20/12/2021 ] **Trainee Agricultural Engineer**

**International Center for Agricultural Research in the Dry Areas (ICARDA)** <https://www.icarda.org/>

**Address:** Beirut, or Terbol, Beirut, Lebanon

**Field(s) of study:** Agriculture, forestry, fisheries and veterinary : *Crop and livestock production*  
*Agriculture not elsewhere classified*

**Main subject / occupational skills covered:**

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 using DNA analysis, SSR...

[ 01/09/2019 – 20/12/2021 ] **MS (Master's degree) in Agricultural Engineering Plant Production Specialization**

**Lebanese University, Faculty of Agronomy and Veterinary Sciences**

**Address:** Beirut, Lebanon

**Field(s) of study:** Agriculture, forestry, fisheries and veterinary : *Crop and livestock production*

**Final grade:** 80.46% **Level in EQF:** EQF level 7

**Type of credits:** ECTS **Number of credits:** 61

**Thesis:** Analysis of DNA Sequences in Wheat as a new Approach to Improve Genebank Management in both International Genebanks ICARDA and CIMMYT

**Main subject / occupational skills covered:**

Identify duplicates based on passport data from databases [Accessions in CIMMYT went from ICARDA to USDA to CIMMYT, now back to ICARADA for Regen] Collate data from both data sets. Georeferencing, Donors IDs.

- Literature review of history and description of the two collections
- Analysing and summarizing duplicates and MOS in both collections
- Get the agroecological diversity for both collections based on Worldclim data

Identify duplicates based on genotypic data

- Genotyping data from both collections – summary statistics – marker richness
- Diversity analysis for both collections based on DartSeq data

[ 01/09/2018 – 31/07/2019 ] **Bachelor in Agricultural Engineering Plant Production Specialization**

**Lebanese University**

**Address:** Beirut, Lebanon

**Level in EQF:** EQF level 7

**Type of credits:** ECTS **Number of credits:** 56

**Lebanese University, Faculty of Science**

**Address:** Beirut, Lebanon

**Level in EQF:** EQF level 6

**Type of credits:** ECTS **Number of credits:** 180

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## DIGITAL SKILLS

### My Digital Skills

Microsoft Office | R Programm | SPSS | Organizational and planning skills | Programe GIS de analiz i editare ArcGIS QGIS Global Mapper

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## LANGUAGE SKILLS

**Mother tongue(s):** Arabic

**Other language(s):**

**English**

**LISTENING** B2 **READING** B2 **WRITING** B2

**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

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## RECOMMENDATIONS

### Professor at Catania University

**Name:** Ferdinando Branca

**Phone number:** (+39) 3395012092

**Email:** [fbranca@unict.it](mailto:fbranca@unict.it)

Professor at Catania University, Department of Agriculture, Food and Environment.

### Professor at Lebanese University

**Name:** Lamis Chalak

**Phone number:** (+961) 3211855

**Email:** [lamischalak@gmail.com](mailto:lamischalak@gmail.com)

Professor at Lebanese University, Head of Plant Production Department.

### ICARDA

**Name:** Mariana Yazbeck

**Phone number:** (+961) 76705780

**Email:** [M.Yazbek@cgiar.org](mailto:M.Yazbek@cgiar.org)

GenBank Manager at International Center for Agricultural Research in the Dry Areas (ICARDA)

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*Success is not about Perfection. It is about Progress.*

catania, italy, 10/11/2022



AYA MORTADA