

Monah Abou Alezz

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Date of Birth: 03/04/1994

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PERSONAL PROFILE:

Research biologist practiced in Molecular Biology and Genetics, as well as drafting corresponding technical and research documents, seeking to improve myself and the scientific community by performing accurate research and complying with all laboratory safety protocols and standards.

EXPERIENCES:

2017: Post-graduation ERASMUS Traineeship in Institute of Plant Genetics, Polish Academy of Science, Poznan – Poland

- improved knowledge in plant molecular biology, with particular focus on gene expression regulation and plant transgenesis
- identification of novel methylation and demethylation enzymes in plant species
- miRNAs gene expression analysis utilizing different molecular methodologies: genomic databases, gene cloning, sequence analysis, expression analysis by RT-qPCR
- Bioinformatic Analysis

2015– 2017: Internship for experimental thesis: Cellular Biology and Neurobiology Laboratory Dipartimento di Biologia e Biotechnologia “L. Spallanzani” Pavia Italy:

Supervisor: Prof. Marco Biggiogera

Project: Influence of Divalent Cations on DNA Methylation in the Modulation of Chromatin Structure – An In-situ Ultrastructural Study

- Electron microscopy techniques: cell culture and split, fixation, pre-embedding, dehydration, inclusion, staining (uranyl acetate, terbium, osmium amine)
- Ultramicrotome
- Immunocytochemistry
- Immunohistochemistry
- EMISH
- Electron Spectroscopic Imaging (ESI)
- Fluorescence microscopy: cell culture and split, fixation, immunofluorescence
- Light Microscopy: bright field, dark field, phase contrast
- Protein extraction and quantification using Bradford Assay
- Western Blot
- Statistical Analysis
- Interpreted research finding and summarized data into reports

- Maintained all laboratory robotics
- Attended Laboratory Safety Course

2016: Congress Communications:

- Poster Communication: Biggiogera M, Tollemeto V, Bina V, Abou Alezz M, Masiello I. TRANSCRIPTION TIME WINDOW APPLIED TO RNA MODIFICATIONS IN HeLa CELLS. Symposium “Nuclear structure and dynamics, through the microscopes” – Pavia (Italy), 7-8 July 2016
- Participation in Congress of “Nanovectors for Biomedical Research and Therapy” – Milano (Italy), 10 November 2016

2009 – 2015: Working experience at Lebanese Agriculture Research Institution – Tal Amara, Lebanon

- Department of Plant Breeding and Improvement
- Department of Crop Production
- Collecting and studying samples of new varieties of wheat, barley and lentils
- Studying the quality of wheat for classification and marketing
- Statistical analysis
- Agriculture fields and industry experience

EDUCATION:

2015 – 2017: Masters Degree in Molecular Biology and Genetics, Universita’ degli Studi di Pavia – Italy, with a final score of 110/110 “*cum laude*”

- Courses: Advanced Molecular biology, Advanced Microscopy, Methods in Biochemistry, Bioinformatics, Molecular Pharmacology, Structural Biology and Pharmacology, Human Molecular Genetics, Microbial Genetics, Developmental Biology, Cellular and Molecular Biochemistry, Plant Molecular Biology and Biotechnology, and Molecular Microbiology.

2012 – 2015: Bachelor Degree in Earth and Life Sciences Lebanese University - Faculty of Sciences – Hadath, Lebanon

- Internships in the laboratories of: Biotechnology, Molecular Biology, Microbiology, Immunology, Genetics, Biochemistry, Vegetal Physiology, Organ Physiology, Organ Histology, Cell Physiology, Vertebrate and Invertebrate Zoology and Anatomy, Botany, Organic Chemistry, General Chemistry

2012: Lebanese Bacalaureate, Life Sciences Al-Mustapha High School – Lebanon

SKILLS:

1) Laboratory Technical Skills:

- Professional in Electron Microscopy Techniques
- Professional in Electron Microscopy Operations and Handling (ZEISS EM 900)
- Professional in Fluorescence Microscopy
- Electron Spectroscopic Imaging
- Immunocytochemistry
- Nuclei Isolation
- RNA, DNA and plasmid Extraction
- Gene cloning
- UV and light spectrophotometry
- Proficient in PCR and primer designing
- Western Blot
- Microbiology laboratory: gram staining, bacterial cell culture, antibiotic specificity and bacterial identification biochemical testing.
- Dissection of vertebrates and invertebrates
- Protein Extraction by Salting out with Ammonium Sulfate and determination of its concentration using Bradford Protein Assay and chromatography techniques
- ELISA Assay
- Equipment maintenance
- In-vitro plant cell culture
- Statistical analysis

2) Language Skills:

- Fluent in English, Arabic and Italian
- Novice in French and Polish

3) Informatic Skills:

- Microsoft Word, Microsoft Excel, Microsoft PowerPoint
- Bioinformatics: Data Mining and Analysis, Experience in Databases and tools, Experience in R programming,
- Adobe Photoshop, ImageJ, Cell F, Graph Pad Prism

4) Personal Skills:

- Excellent written, verbal and interpersonal communication skills.
- Ability to multitask with strong organization, planning and problem-solving skill.
- Ability to maintain associated documentation, record keeping, collection and organization of scientific data.
- Ability to work as part of a team while being independent,
- Dedicated, eager and fast learner.