AHMAD SABRI MAHMOUD AMMAR
Plant Biologist | Bioengineer

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🎓 EDUCATION

University of Bonn, Germany   2017 - 2020
Master of Science (M. Sc.)
Plant Sciences   GPA: 1.5/4 [German Grading]

Near East University, Northern Cyprus   2016 - 2017
Bachelor of Science (B. Sc.)
Bioengineering   GPA: 1.2/4 [German Grading]

Istanbul University, Turkey   2014 - 2016
Bachelor of Science (B. Sc.)
Genetics and Bioengineering

American University of Beirut, Lebanon   2013 - 2014
Bachelor of Science (B. Sc.)
Phsyics

📑 PUBLICATIONS

A REVIEW ARTICLE (2018) Ammar, A. (2018). Nanotechnologies associated to floral resources in agri-food sector. *Acta Agronomica*, 67(1): 146-159. DOI: 10.15446/acag.v67n1.62011

"ELIP-mediated and ELIP-supported Responses in the Photosynthetic Apparatus of Homoiochlorophyllus and Poikilochlorophyllous Desiccation Tolerant Plants." (in progress)

🖥 SELECTED PROJECTS

A novel multi-floor hexagonal design for the commercial hydroponic production of the loose-leaf lettuce oscarde Asteraceae *Lactuca sativa* L.
Sep 2016 - Jun 2017 (Bachelor Thesis)
· The aim of the project was to develop a new hexagonal-prism-shaped hydroponic growth chambers that could be stacked in a multi-array fashion to conserve space and increase the production capacity of hydroponic farms.

Characterization of ELIP genes in the desiccation tolerant *Lindernia brevidens* and its desiccation sensitive counterpart *Lindernia subracemosa*
Aug 2019 - Apr 2020 (Master Thesis)
· The aim of the project was to identify several light-responsive genes coding for the Early Light-induced Proteins (ELIPs), analyze their transcript gene expression profile and amino acid sequences, and discuss recent research detailing their regulatory pathways.

☰ TECHNICAL STRENGTHS

Computer Languages	Java, R Statistics, Matlab
Microscopy	Optical microscope, Fluorescence microscope, Confocal microscope
Others	Microsoft Office, InkScape, SolidWorks, LaTeX

💼 WORK EXPERIENCE

University of Bonn, Germany   Apr 2019 - May 2019
Intern, Department of Plant Science

· Establishing Liposome Binding Studies for the GRP1 Protein Isolated from *Craterostigma plantagineum*

· Methods:
1. Bacterial Culture 2. Protein Purification 3. Desalting and Buffer Exchange 4. Freeze-drying 5. Liposome-binding Assay 6. Bradford Assay 7. SDS-PAGE 8. Western Blotting 9. Coomassie staining 10. Ponceau-S Staining 11. Immunodetection 12. ECL Detection

University of Bonn, Germany   Mar 2018 - Apr 2018
Intern, Department of Plant Science

· Transcriptome and expression analysis of *Arabidopsis thaliana* and *Hordeum vulgare* to analyze their drought-tolerance capacity and identify the expression patterns of the drought-stress induced gene ALDH7B4

· Methods:
1. Germination Test 2. Relative Water Content 3. Control Deterioration Test 4. RNA extraction 5. cDNA Synthesis 6. Quick and Dirty DNA protocol 7. PCR 8. Lipid Peroxidation Assay

Abu Dhabi Food Control Authority, U.A.E   Jul 2016 - Sep 2016
Veterinary Department

· Experimental work in the molecular biology and microbiology laboratory

· Methods:
1. Giemsa Staining 2. Detecting the Antibodies of Brucella by RBT 3. Gram Negative and Gram Positive Staining 4. Detection of Acid Fast Bacilli by Acid Fast Stain 5. Bact Alert 3D Blood Analysis System 6. Antimicrobial Susceptibility Testing by the Disc Diffusion Method

Bilkent University, Turkey   Jun 2015 - Aug 2015
Breast Cancer Research

· Drug discovery and applications of bioinformatics

· Methods:
1. Microarrays 2. R programming 3. GEO2R Analysis 4. MTT tetrazolium reduction assays 5. Cell culturing, passing, seeding, and counting 6. Spectrophotometric analysis 7. BrdU Cell Proliferation Assay (using monoclonal antibodies) 8. Fluorescent Microscopy

🏆 HONORS & AWARDS

Certificate of High Honor [6 Certificates]
Istanbul University - 4 Certificates, Near East University - 2 Certificate
Issued : 2015 - 2017

The 2010 Regional Ricoh Sustainable Development Award
Issued : Mar 2010

🅰 LANGUAGES

English : Fluent
Latin   : Beginner
Arabic : Native