



Marei Abdelkarim

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Education

- Master of Science in Entomology and Plant Pathology. University of Tennessee, Knoxville, TN. Date of graduation – May 2012.
Thesis title: *Abiotic and biotic stress tolerance in wheat: the role of arbuscular mycorrhizal fungi.*
- Bachelor of Science in Agriculture. University of Benghazi, formerly Garyounis, Benghazi, Libya. 2006.

Publications

- Abdelkarim, M.M., Gualandi, R. J., Gwinn, K.D., and Ownley, B.H. 2010. Impact of mycorrhizal infection on sensitivity of wheat to sorghum allelopathy. *Phytopathology* Volume 100:S2.
- Abdelkarim, M.M., Ownley, B.H., Klingeman, WE, and Gwinn, K.D. 2011. Effect of mycorrhizae on aphid infestation of wheat. *Phytopathology* Volume 101:S2.
- Abdullah, MM. 2019. Indigenous mycorrhizal spore isolation and identification from wheat field, benghazi district Libya. *International Journal of Agriculture and Environmental Research* Volume 05:03.
- Abdullah, MM. 2019. The Current Survey of Indigenous Arbuscular Mycorrhizal Fungi of Wheat (*Triticum aestivum*) in Benghazi's Coastal Plain. *Journal of Misurata University for Agriculture Sciences* 1 (01), 23.

Abdullah, MM. 2020. *Alternaria* leaf blight of barley incidence in Benghazi district, Libya. *Libyan Journal of Plant Protection: Issue* (10).

Research Experience

- Greenhouse
 - Maintained pot cultures of two mycorrhizal species
 - *Glomus intraradices*
 - *Gigaspora margarita*
 - Developed aphid (*Rhopalosiphum padi*) colony cleared of predators for experimentation from a natural infestation
 - Designed greenhouse experiments

- Laboratory and growth chamber
 - Spectrophotometer- based chlorophyll analysis
 - *Spodoptera frugiperda*- feeding preference studies
 - *Bipolaris sorokiniana* - virulence assays

Experience

to present – *Lecture assistant*

University of Benghazi- faculty of agriculture (Solouck)

Responsibilities

- Teaching courses
- Laboratory assays
- January 2007- August 2007 - *Supervisor*
Alfedel Construction Company, Benghazi, Libya.
Responsibilities:
 - Document organization
 - Project coordination
 - Performance evaluation
- January 2008-June 2008 - *Teaching assistant*
University of Garyounis, Benghazi, Libya
Responsibilities:
 - University farm projects
 - Managed undergraduate student research projects

Relevant Coursework

Introduction to plant pathology

Economic Insect

Field Crop and Vegetable Insects

Plant Biology

Control of Agricultural Pest

Plant Disease Physiology

Advanced Statistic for Biological Research

Bacterial Plant Diseases

Biostatistics and Experimental Design

Genetic and Plant Breeding

Professional Participation

American Phytopathological Society (APS) – attended national meetings (2010 and 2011).

Attended The First Scientific Conference Agricultural Sciences -Plant Production in Misrata University, 2019.