

Curriculum Vitae

Shimaa Hassan Mohammed, (M.Sc.)

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Career Objectives

I am keen to develop my professional career to serve mankind through my expertise and skills.

Career Abridgement

- Enthusiastic professional offering eight years of research and relevant teaching experience.
 - Experience in bacteriology, fungal physiology, plant physiology, microbial enzymology, and plant-microbe interaction.
 - Well versed with safety laws and standards pertinent to laboratory.
 - Independently designs, executes, analyzes and troubleshoots the experiments.
 - Well updated on changes, research, and advances of technologies.
 - Sound relationship building, communication, interpersonal and time management skills combined with good research skills.
 - Active team player with several successful and ongoing collaborations.
 - Ability to develop observations, conclusions and recommendations based on analyzing data.
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Education

2012.02 – 2017.02 **MSC., Microbiology, Botany and Microbiology Department, Assiut University, Egypt**
Studies on the entomopathogen *Beauveria bassiana* (Balsamo) Vuillemin as endophytic fungus

2007.09 - 2011.06 **Bachelor of Botany, Botany and Microbiology Department, Assiut University, Egypt**
First Class (Distinction Grade with Honor)

Areas of Expertise

Bacteriology: Study the morphology, ecology, and biochemistry of bacteria, Isolation of bacteria from different sources.

Fungal Physiology: Fungal growth and reproduction, Fungal metabolism and Fungal isolation and identification.

Plant Physiology: Identification of the active components in plant extract and studying plant-pathogen interaction.

Enzymatic Assay: Enzyme activity determination and studying its kinetics.

Work Experience

2017.2 – Present Assistant Lecturer of Microbiology, Botany and Microbiology Department, Assiut University, Egypt.

2012.02 – 2017.01 Demonstrator, Botany and Microbiology Department, Assiut University, Egypt.

Courses taught

I have worked for eight years as a TA for Microbiology and Botany related modules such as:

1. **General Botany for Undergraduate Students (B 100)**
 2. **Molecular Biology for Undergraduate Students (B 212)**
 3. **Plant Morphology and Anatomy (B 221), Plant Physiology (B251) for Undergraduate Students**
 4. **Fungal and Bacterial Physiology (B 363) for Undergraduate Students**
 5. **Phytopathology for Undergraduate Students (B 364)**
 6. **Microbial toxins (B 393) and Enzymology (B 394) for Undergraduate Students**
 7. **Industrial Microbiology and Biotechnology (B 396) for Undergraduate Students**
 8. **Medical Microbiology for Undergraduate Students (B 413)**
 9. **Food Microbiology (B 498) and Biological Control (B 499) for Undergraduate Students**
 10. **Microbial Ecology (B 494) for Undergraduate Students**
 11. **Practical course of Soil Microbiology for Postgraduate Students (B 627)**
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Publications

1. Saad S. Mohamed El-Maraghy, Mohamed A. A. Abdel-Rahman, Khalid A. Hussein, and **Shimaa Hassan Mohamed Hassan**. A Preliminary record of the entomopathogenic fungus *Beauveria bassiana* (Balsamo) viullemin as endophyte in Egypt. Pyrex Journal of Microbiology and Biotechnology Research 9:14, 2016.
 2. Ahmed M. Sayed, Emad H. Hassanein, **Shimaa H. Salem**, Omnia E. Hussein, and Ayman M. Mahmoud. Flavonoids-mediated SIRT1 signalling activation in hepatic disorders. Life Sciences <https://doi.org/10.1016/j.lfs.2020.118173>
 3. **Shimaa H. Salem**, Saad S. Mohamed El-Maraghy, Mohamed A. A. Abdel-Rahman, Khalid A. Hussein, and Ahmed M. Sayed. Pathogenicity of *Beauveria bassiana* (Balsamo) Vuillemin as endophyte (Fungi: Hyphomy-cetes) against greater wax moth, *Galleria mellonella* larvae. (Inreview)
 4. **Shimaa H. Salem**, Ahmed Y. Abdel-Mallek, Saad S. El-Maraghy, Mohamed A. A. Abdel-Rahman, Emad H. M. Hassanein and Ahmed M. Sayed. GC-MS analysis, cytotoxic effect, and molecular docking studies of bioactive alkaloids extracted from tomato leaves inoculated with endophytic fungus *Beauveria bassiana*. (Inreview)
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Conferences and Workshops

1. **Shimaa Hassan Mohammed Hassan**, Saad S.M. El-Maraghy, Mohamed A.A. Abdel Rahman and Khalid A. Hussein. First record of the entomopathogenic fungus *Beauveria bassiana* (Balsamo) Viullemin as endophyte in Assuit. The Second International Conference on Basic and Applied Mycology, Egypt. 2015.
 2. Twenty-third workshop in preservation and biotechnological applications of fungi. Assiut University Moubasher Mycological Centre (AUMMC), 15-19 March 2020.
 3. The Tenth International Conference for Development and Environment in the Arab World, 8-10 November 2020.
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