

Curriculum Vitae

1- Personal Data:

Name: Dr. Hoda Mohamed Ibrahim El-Gharabawy

Place of birth: Damietta, Egypt.

Gender: Female

E-mail address: hoda_mohamed@du.edu.eg / hoda_elgharabawy@yahoo.com

Contact address: Botany & Microbiology Department, Faculty of Sciences, Damietta Univ., New Damietta City, 34517, Damietta, Egypt.

Nationality: Egyptian.

2- Scientific career

May 2007: B.Sc. in Sciences (Microbiology & Chemistry) with grade very good with honor degree (Ranked first), Mansoura University, Egypt.

M.Sc. in Science (Microbiology), Oct 2012, Faculty of Science, Damietta University, Egypt.

May 2014 -May 2016: International Ph.D. student at Institute of Biological, Environmental & Rural Sciences (IBERS), Aberystwyth University, Wales, UK, under the supervision of Dr Gareth W. Griffith, according to a joint supervision scheme mission from the Egyptian government.

PhD. in Science (Microbiology), Oct 2016, Faculty of Science, Damietta University, Egypt.

Post Doc researcher at IBERS, Aberystwyth University, Wales, UK, for scientific cooperation in the field under a scheme mission from the Egyptian government.

March 2020- Feb 2021: International research visit to Institute of Biological, Environmental & Rural Sciences (IBERS), Aberystwyth University, Wales, UK, for scientific cooperation with Dr Gareth W. Griffith, according to scheme mission from the Egyptian government.

3- Job Experience

March 2008 to November 2012: **Demonstrator of Microbiology** at Botany Department, Faculty of Science, Damietta University, Egypt.

December 2012 to October 2016: **Assistant Lecturer of Microbiology** at Botany Department, Faculty of Science, Damietta University, Egypt.

November 2016 to date: **Lecturer of Microbiology** at Botany & Microbiology Department, Faculty of Sciences, Damietta Univ, Egypt.

Great Teaching Experience of practical courses and lectures for under/postgraduates at Damietta University of Egypt for about than 8 years (Microbiology, Mycology, Virology, Bacteriology, Host parasite relationship, Physiology of micro-organisms, Plant pathology, Molecular biology, Biotechnology, Genetic engineering.....etc).

Practical Training of Mushroom cultivation at Faculty of Science, Damietta University, since 2008.

Working on HPLC System for Analysis of Ergosterol for 2 years at Aberystwyth University, UK.

Working on Scanning Electron Microscope, for fungal microscopy for 2 years at Aberystwyth University, Wales, UK.

Member of the international office of Damietta University and Deputy Director of the Academic Rankings Unit since Jan. 2021.

4- Scientific Publications

El-Fallal, A., Abo-Doubara, M. and El-Gharabawy, H. (2009). Comparative study on cultivation and yield performance of oyster mushroom (*Pleurotus floridanus*) by using different supplements to sorghum spawn and rice straw. Mansoura Journal of Biology, Mansoura University, Egypt, 36(2):51-63.

El-Fallal, A.A., El-Sayed, A.K. and El-Gharabawy, H.M. (2012). Improving yield and productivity of oyster mushroom (*Pleurotus columbinus*) using ultra violet mutation. Journal of Environmental Science, Mansoura University, Egypt. 42(2):241-253.

Acknowledged for participation in antimicrobial activity part; Bamanie, F.H., Shehata, A.S., Moustafa, M.A., Mashaly, M. M. (2012). Green chemistry: Simple and Efficient Synthesis -in Water- and Antibacterial Activity of 5-Arylidene Derivatives of Thiobarbituric and Barbituric acids. Journal of American Science. 8(1):481-485.

El-Fallal, A.A., El-Sayed, A.K. and El-Gharabawy, H.M. (2013). Induction of low sporulating-UV mutant of oyster mushroom with high content of vitamin D 2. Egyptian Journal of Botany, 3rd Inter. Conf. Plant & Microbial Biotech. & their Role in the Development of the Society (2013), 393-405.

El-Gharabawy, H.M., Detheridge, A.P., El-Fallal, A.A., El-Sayed, A.K. and Griffith, G.W. (2016). Analysis of wood decay and ligninolysis in Polyporales from the Nile Delta region of Egypt. Mycosphere, 7(4):392-404.

El-Fallal, A.A., El-Sayed, A.K. and El-Gharabawy, H.M. (2017). First record of *Lepista sordida* (Schumach) Singer in Eastern North Africa. Egyptian Journal of Botany, 7th Inter. Conf. Biotech. & its Applications in Botany and Microbiology, 57(2017), 111 -118.

Xing, Y., Brewer, M., El-Gharabawy, H., Griffith and G., Jones, P. (2018). Growing and Testing Mycelium Bricks as Building Insulation Materials. IOP Conf. Series: Earth and Environmental Science, 121(2018) 022032.

El-Fallal, A.A., El-Sayed, A.K.A., El-Gharabawy, H.M. and Soliman, E.M. (2018). Effect of Different Growth Factors on Three Wheat Grain-Deteriorating Aspergillus Species. Mansoura Journal of Biology, 41 (1).

El-Fallal, A.A., El-Sayed, A.K. and El-Gharabawy, H.M. (2019). *Podaxis pistillaris* (L.) Fr. and *Leucocoprinus birnbaumii* (Corda) Singer; new addition to macrofungi of Egypt. Egyptian Journal of Botany, 59(2), 413-423.

El-Gharabawy, H.M., El-Fallal, A.A. and El-Sayed, A.K. (2019). Description of a yellow morel from Egypt using morphological and molecular tools. Nova Hedwiga , 109(1-2), 95-110.

Elsayed S.A., El-Gharabawy, H.M., Butler, I.S, and Atlam, F.M. (2020). Novel metal complexes of 3- acetylcoumarin- 2- hydrazinobenzothiazole Schiff base: Design, structural characterizations, DNA binding, DFT calculations, molecular docking and biological studies, Applied Organometallic Chemistry, submitted, under publication.e5643. doi.org/10.1002/aoc.5643

El-Gharabawy, H.M., Caio A.Leal-Dutra, Gareth W. Griffith (2021). *Crystallicutis* gen. nov. (Irpicaceae, Basidiomycota), including *C. damiettensis* sp. nov., found on Phoenix dactylifera (date

palm) trunks in the Nile Delta of Egypt. *Fungal Biology*, Volume 125, Issue 6, June 2021, Pages 447-458.

El-Gharabawy, H.M. (2012). Study on Enhanced UV Radiation Effect on Some Physiological, Biochemical and Molecular Activities of Oyster Mushroom. MSc.Thesis, Botany Department, Fac. of Science, Damietta Univ., Egypt.

El-Gharabawy, H.M. (2016). Wood Decay of Trees by Basidiomycete Fungi in the North East Nile Delta Region. PhD Thesis, Botany and Microbiology Department, Fac. of Science, Damietta Univ., Egypt.

5- Post-Graduate Supervision:

- PhD Thesis entitled:** " The biological and physical control of some fungi and their associated mycotoxins", for two years (2017-2018).
- PhD Thesis entitled:** "Studies on mushroom polysaccharides and their applications ", since 2019
- M.Sc. Thesis entitled:** "Detection and control of mycotoxin production in animal feed stuff", since 2019.
- M.Sc. Thesis entitled:** "Utilization of spent mushroom substrate as a biofertilizer for wheat under stress conditions", since 2019.

6-Training and Workshops

- Biodiversity of genera and species of fungi which deteriorate food materials with special attention to toxigenic and human, animal and plant pathogenic species,** 7-11 March, 2009, Mycological center, Assiut University, Egypt.
- Basics and Applications of High Performance Liquid Chromatography (HPLC) and Gas Chromatography (GC) in Medical Biochemistry,** 12-15 April 2010 Medical technology center for research and services, Alexandria University.
- Basic Molecular Biology,** 16-19 March 2011, Medical technology center for research and services, Alexandria University.
- Laboratory Techniques for Isolation, Identification and Preservation of Fungi,** 19-24 Nov. 2011, Mycological center, Assiut University.
- Biodiversity and Conservation of Fungi,** 3 Dec. 2011, Faculty of Science, Damietta University.
- Gene Transformation in Plant and Bacteria,** 1-3 Dec. 2012, Genetic Engineering and Biotechnology Research Institute (GEBRI), Sadat City, Menoufyia University, Egypt.
- A training course on different uses of Electron microscopy,** 27 Feb. 2014, Electron Microscopy Unit, Faculty of Science, Alexandria University, Egypt.
- A course on Postgraduate Writing (PG) and Advanced Information skills,** July-Sep. 2014, Department of Information Studies, Aberystwyth University, UK.
- Programming Course for Scientists,** Department of Computer Science, Jan.-March, 2016, Aberystwyth University, UK.
- Phylogeny & Molecular Evaluation (Bioinformatics Level III),** 3-4 Dec. 2016, Medical technology center for research and services, Alexandria University, Egypt.
- The German Science Day of DAAD Cairo Office,** for Outstanding Doctoral and Postdoctoral Candidates in July 2017 at Conrad Hotel.
- Biodiversity of Aquatic Fungi,** Nov. 2017, 21th workshop of Assiut University Mycological Centre (AUMC), Assiut University, Egypt.
- A workshop in the Institute of Leadership Development in Helwan,** May 2018.
- A workshop on Application of Nanotechnology in drug delivery system and biomedical,** 27-28 Feb. 2019, Medical technology center for research and services, Alexandria University, Egypt.

7-Scientific Conferences

- 4th International Environmental conference on Environment, Industry and Development at Mansoura University, Egypt, 30th March-1st April 2009.
- 3rd International conference on Biotechnology and its Application in Botany and Microbiology at Helwan, Egypt, 17-18 April 2013.
- Focused meeting- invasive fungus, at Manchester, UK, 7-9 Sep. 2015. Poster titled: New Records of Wood decay basidiomycetes from Egypt, El-Gharabawy, H.M. A. El-Fallal1, A.K.A. El-Sayed & G.W. Griffith.
- XVII Congress of European Mycologists at Madeira, Portugal, 21-25 Sep. 2015. Presentation titled: A new species, *Ganoderma damiettense* nom. prov., pathogenic to lemon trees in Egypt.
- First Scientific Conference for Students “ Future Scientists 1”, Damietta University, Egypt, 11-12 April 2017.
- 7th International conference on Plant Microbial Biotechnology and their Role in the development of the society at Tanta University, Egypt, 19-20 April 2017.
- Second Scientific Conference For Students “ Future Scientists 2”, Damietta University, Egypt, April 2018.
- 8th International Conference on Plant and Microbial Biotechnology at Kafer Elsheikh University, 3-4, October 2018.
- Third Scientific Conference For Students “ Future Scientists 3”, Damietta University, Egypt, April 2019.

8-Scientific Membership:

- Association of Basic and Applied Mycology, Assuit University, since 2009.
- Egyptian Botanical Association, Cairo University, since 2013.
- British Mycological society, UK, since 2015.
- European Society of Microbiology since 2020.
- Reviewer at the Control Journal of Botany (Continuous Research Online Library) since 2018.
- Reviewer at the International Journal of Microbiology and Biotechnology since 2020.
- Reviewer at the international Journal of Biodiversity Data since 2020.

9- Research Projects:

- Member in the project of “Mushroom cultivation and production on agricultural wastes” at Faculty of Science, Damietta University, 2008-2009.
- Member in the project of “ Evaluation of some antioxidants through solid state fermentation using fungi” at Faculty of Science, Damietta University, 2017-2019.
- Main researcher of the project entitled “Growing new Egyptian mushroom species” supported by Joint ASRT/BA Research Grants Program of Academy and scientific research and technology, since Nov.2021-Nov.2023.

10- Others Skills

Language: Arabic (National Language),

English, very good. IELTS Test, 2014, British Council, Egypt with 6.0 total band score. French, good.

Computing: Basic computer skills, Advanced Specific Computer Training Course, excellent internet browsing and searching, training on Python programming. Reference manager using Endnote and Mendeley softwares.

University academic Website; <http://www.du.edu.eg/user.aspx?u=728>
<http://staff.du.edu.eg/cv.php?u=728> <http://staff.du.edu.eg/728>

References:

1-Amira Ali El-Fallal

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2-Gamal Hassan Rabie Sakr

Professor of Microbiology at Botany Dep., Faculty of Sciences, Zagazig Univ, Egypt. Email: rabiegam@hotmail.com.

3- Gareth W. Griffith

Senior Lecturer, and head of Microbiology Department at IBERS, Aberystwyth University, UK
E-mail: gwg@aber.ac.uk

1- Andrew P. Detheridge

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