



# NAEIMA MOHAMED HAMMAM YOUSEF

 **Professor of Bacteriology, Botany & Microbiology  
Department, Faculty of Science, Assiut University, Egypt.**

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## Researcher Links

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GOOGLE SCHOLAR  [HTTPS://SCHOLAR.GOOGLE.COM.EG/CITATIONS?HL=EN&USER=SWBI774AAAAJ](https://scholar.google.com.eg/citations?hl=en&user=SWBI774AAAAJ)

**Permanent Address: Prof. Naeima M. H. Yousef**

Botany & Microbiology Dep., Faculty of Science, Assiut University, 71516 Assiut, Egypt

## Education

B. Sc.  **1990**

B. Sc. (Botany), Faculty of Science, Assiut University (Excellent with honor)

Ph. D.  **2004**

Ph. D. (Molecular Cell Physiology), Faculty of Biology, University of Bielefeld, Germany

## Academic Positions or Employment History:

1990	Permanent position as Demonstrator in the Botany Department, Faculty of Science, Assiut University, Assiut, Egypt.
1990 - 1998	During this time I improved my knowledge in taking classes in the field of microbiology, physiology, biochemistry, virology and biostatics (classes in the Master degree program) In addition I was obliged for every semester to teach laboratory courses to students in the field of general Botany, bacteriology, physiology, plant anatomy, plant taxonomy and ecology
1998 - 1999	German language course at the Goethe-institute in Göttingen, Germany (October 1998 – January 1999)
1999 - 2004	Graduate student in the Faculty of Biology at the University of Bielefeld as a Ph.D. student
2004	Ph. D. degree in Molecular cell physiology from Faculty of Biology, University of Bielefeld, Germany. Permanent position as Lecturer in the Botany Department, Faculty of Science, Assiut University, Assiut, Egypt.

2007	Post doctor in Botany institute, Christian-Albrecht University, Kiel, Germany.
2008-2011	Assistant professor in Biotechnology Department, Faculty of Science, Taif University, Saudi Arabia
2015	Permanent position as Associate Professor Microbiology, Botany & Microbiology Department, Faculty of Science, Assiut University, Egypt
2016	Head of Botany Department-New Valley branch- Faculty of Science, Assiut University (March 2016 – September 2016).
2020	Permanent position as Professor of Bacteriology, Botany and Microbiology Department, Faculty of Science, Assiut University, Egypt.
2023	Head of Botany & Microbiology Department - Faculty of Science, Assiut University (August 2023- Now).

## **Teaching Experiences**

### **Undergraduate courses**

#### **Theoretical courses at Assiut university:**

molecular biology, bacteriology, bacterial metabolism, plant kingdom, phycology, virology, advanced virology, general botany, plant taxonomy, plant physiology, plant anatomy, plant morphology, and bachelor research for students in faculty of science, faculty of pharmacy, faculty of education, and faculty of agriculture - Assiut university.

#### **Theoretical courses at Taif university- Saudi Arabia**

microbial biotechnology, petroleum biotechnology, industrial microbiology, microbiology, environmental pollution, introduction to biotechnology, bachelor research.

#### **Practical courses at Assiut university:**

bacteriology, plant kingdom, plant physiology, plant anatomy, plant morphology, general botany, algae, and plant taxonomy for students in faculty of science, faculty of pharmacy, faculty of education, faculty of agriculture and faculty of veterinary medicine - assiut university

#### **Practical courses at Taif university- Saudi Arabia**

microbial biotechnology, petroleum biotechnology, industrial microbiology, An introduction to Biotechnology, practical courses.

### **Graduate Courses**

#### **Ph.D. students**

Molecular Genetics, Qualified Exam

#### **Master students**

Virology, Special Topics in microbiology, Advanced Bacteriology, Special course, Physiology of bacteria, Microbial genetics

#### **Applied Microbiology Diploma - Assiut University**

Theoretical and practical courses in bacteriology, advanced molecular biology and Virology

#### **Biochemistry Diploma - Assiut University**

Advanced Molecular biology

#### **Molecular Biology Researches and Studies Institute**

Molecular Cytogenetic – Special Topics

## **Languages**

1. Arabic (Native).
2. English (very good in reading and writing).
3. Deutsch (very good in speaking, reading and writing).

## **Consulting Experience**

- Experience in Quality Assurance
- Reviewer in some Microbiological Journal

- Preparing microbiological courses and program specifications
- Participated in preparing Botany and Microbial Biotechnology program- Botany & Microbiology Department- Faculty of Science- Assiut University.
- Preparing higher courses for M. Sc. and Ph.D.

## **Supervisions and Reviewing Master & PhD Dissertation**

- 1- Asmaa M. M. Mawad Ph.D. Biotechnological and molecular studies on microbial remediation of anthraquinone and azodyes. December 2016. Assiut University
- 2- Dalia Raway Ibrahim Ph.D. Isolation and characterization of bacteriophages – infecting some pathogenic bacteria. 5 November 2020. Assiut University
- 3- Zeinab Hussein Ali Hussein.M.Sc. Calcium and Magnesium Nanoparticles as Antibacterial Agents against Clinical Pathogenic Bacterial Isolates from Tonsils. October 2020 South valley University.
- 4- Marwa Ali Mohamed Hasanein Master degree M.Sc. Studies on sulfur oxidizing bacteria isolated from polluted water and their biotechnological applications. 26 November 2020. Assiut University.
- 5- Eman Issa Ali Master degree M.Sc. Isolation and characterization of cellulolytic halophilic bacteria with special reference to some applications. 2021 Assiut University.
- 6- Mohamed Ali Ahmed Husein.Ph.D. Microbiological studies on stem cells. 1st October 2022, Al-Azhar university.
- 7- Nada Adel M.Sc Isolation characterization and enzymatic activity of a haloalkaliphilic amylase producer bacteria isolated from Wadi El-Natrun, Egypt. 5 December 2023, New Valley University.
- 8- Samar Mahmoud, Ph.D. Isolation of lactic acid bacteria from some meat products and enhancing their antibacterial activity using nanotechnology, 1st September 2024, Faculty of Veterinary Medicine, Assiut University.
- 9- Mahmoud Nazea. M.Sc. Isolation and characterization of actinomycetes producing pigments and their applications. 24 Nov. 2024, Al-Azhar university.
- 10- Ahmed Salah Aldein Tawfeek. Ph.D. Isolation and molecular characterization of heavy metal resistant diazotrophic bacteria and their potential role in nanoparticles synthesis. Faculty of sugar production technology, Assiut University.
- 11- Rehab Mohamed Mahmoud Hamouda. M.Sc, Botany & Microbiology Department, Faculty of Science Assiut University.
- 12- Ashraki Master, M.Sc, Botany & Microbiology Department, Faculty of Science Assiut University.
- 13- Nada Adel Master M.Sc Botany & Microbiology Department, Faculty of Science New Valley University
- 14- Safinas, Master M.Sc Botany & Microbiology Department, Faculty of Science Al-Azhar university
- 15- Thraa Mostafa Ali, M.Sc, Botany & Microbiology Department, Faculty of Science Assiut University.
- 16- Doaa Abdel Rasheed, M.Sc, Botany & Microbiology Department, Faculty of Science Assiut University.

- 17- Aleaa Masoud, M.Sc, Botany & Microbiology Department, Faculty of Science Assiut University.
- 18- Shymaa Hamdy, M.Sc, Botany & Microbiology Department, Faculty of Science, Assiut University.
- 19- Hadia, M.Sc Molecular Biology Researches and Studies Institute, Assiut University.

## List of Publications

- 1- Michel, K.-P., **Naeima M. H. Yousef** & Pistorius, E.K. (2003) Modification of photosystem II by *IdiA* and photosystem I by *IsiA* in *Synechococcus elongatus* PCC 7942 under iron limitation and regulation of these modifications. In: the Second German/Japanese Binational Symposium: Functional Genomics in Cyanobacteria Beyond Genome Sequences. Organised by Hagemann, M., Herrman, R. G., Omata, O. & Tabata, S. Benediktbeuren, Bavaria, Germany, P 56-57 (extracted from Ph.D. thesis).
- 2- **Naeima M. H. Yousef**, Pistorius, E.K. & Michel, K.-P. (2003) Comparative analysis of *idiA* and *isiA* transcription under iron starvation and oxidative stress in *Synechococcus elongatus* PCC 7942 wild-type and selected mutants. Arch. Microbiol. 180: 471-483 (extracted from Ph.D. thesis).
- 3- Soumia M. I. Darwish, **Naeima M. H. Yousef** and Mady A. Ismail(2008) Microbiological quality and elemental analysis of some ready to eat meat products J.Agric.Sc. Mansoura Uni. 33(8): P. 5601-5613.
- 4- Nemmat A. Hussein & **Naeima M. H. Yousef** (2011) Microbial population of soil contamination with petroleum derivatives and molecular identification of *Aspergillusniger*. Egypt J. Exp. Biol. (Bot.), 7:P.1-7.
- 5- Eman A. H. Mohamed, **Naeima M. H. Yousef**, Azza G. Farag(2012) Isolation and molecular identification of polyaromatic hydrocarbons – utilizing bacteria from crude petroleum oil samples. African J. of microbiol. Research, 6 (49) 7479-7484.
- 6- Yahya Ali & **Naeima M. H. Yousef** (2014) Detection and characterization of bacteriophages attacking dairy *Streptococcus thermophilus* starter cultures. African J. of microbiol. Research, 7 (27): 2598-2603.
- 7- **Naeima M. H. Yousef** and Nivien A. Nafady(2014). Combining of biological silver nanoparticles with antiseptic agent and their antimicrobial activity. International Journal of pure and applied bioscience, 2 (2) 39-47.
- 8- **Naeima M. H. Yousef** (2014). Characterization and antimicrobial activity of silver nanoparticles synthesized by rice straw- utilizing bacterium (*Lysinibacillus fusiformis*). International Journal of Development Research, 4 (9): 1875-1879.
- 9- **Naeima M.H. Yousef** (2015). Evaluation of the antibacterial potential of selected medicinal plant extracts against some bacterial strains. Assiut University Journal of Botany.

- 10- Safa M. Ali, **Naeima M. H. Yousef**, Nivien A. Nafady(2015). Application of biosynthesized silver nanoparticles for the control of land snail *Eobaniavermiculata* and some plant pathogenic fungi. Journal of Nanomaterials.
- 11- Asmaa M.M. Mawad, **Naeima M.H. Yousef** and Ahmed A. Shoreit (2015). Bioremediation of acid blue 25 dye by anthracene degrading *Pseudomonas pseudoalcaligenes* ASU-016. Catarina Journal, 10 (1): 53-60.
- 12- Asmaa M.M., Mawad, **Naeima M.H. Yousef** and Ahmed A. Shoreit (2015). Application of Fungal Biofilm Supported on Activated Carbon for Adsorption of Two Azodyes: Adsorption Kinetics and Isotherms. *Advances in Bioscience and Bioengineering*. 3 (2) 11-19.
- 13- **Naeima M. H. Yousef** (2015). Overexpression of recombinant membrane associated protein (MapA) of *Synechococcus elongatus* PCC 7942 in *Escherichia coli*. Egypt. J. Exp. Biol. (Bot.), 11(1): 50 –57.
- 14- **Naeima M. H. Yousef** (2015).Molecular cloning and characterization of the bidirectional hydrogenase hox genes cluster from the cyanobacterium *Synechococcusnidulans*.The First International Conference on Multidisciplinary, 28-31 October, 2015 Porto Sokhna, AinSokhna, Egypt.
- 15- Nivien A. Nafady and**Naeima M. H. Yousef** (2015). Rapid intra/extracellular biosynthesis of silver nanoparticles by *Klebsiella oxytoca*: characterization and antifungal activity. The second international coference on new horizons in basic and applied science (In session: Advanced Research in plant and microbial biotechnology) 4-6 August 2015 Hurghada, Al-Azhar University- Assiut. Egypt
- 16- Asmaa M.M., Mawad,**Naeima M.H. Yousef** and Ahmed A. Shoreit (2016). Robust *Aspergillus terreus*biofilm supported on graphene oxide/hematite-nanocomposites for adsorption of anthraquinone dye. J. Desalination and water treatment· Impact Factor: 1.234 · DOI: 10.1080/19443994.2016.1138885.
- 17- **Yousef, Naeima M.H.** and Aldaby, Eman S.E. (2016).Biochemical characterization of the hydrogen photoevolution in cyanobacterium *Oscillatoria chalybea*. Int. J. Hydrogen energy. 48:22831-22836. Impact Factor: 4.0
- 18- Ahmed M. El-Adly and**Naeima M H Yousef** (2016). Distribution of Hepatitis E Virus Genotypes from human and animals reservoir.The International Conference of EgyptoSociaty of Virology, 28-31 November, 2016 , Egypt.
- 19- **Yousef, Naeima M.H.**and Hussein, Nemmat A. (2017). Impacts of inoculation with *Rhizobium leguminosarum* and arbuscular mycorrhizae fungi and phosphate on faba bean (*Viciafaba* L.) grown in soil under salt stress condition. BJB 46(2) 599-605. Impact Factor: 0.23
- 20- Abd El-Aziz, Doaa M and **Yousef, Naeima M H** (2018). Enhancement of antimicrobial effect of some spices extract by using biosynthesized silver nanoparticles. J. Food Science, Int. Food Research Journal, 25 (2); 589-596. Impact Factor: 0.77

- 21- El Farash A., Asmaa M.M., Mawad, **Naeima M.H. Yousef** and Ahmed A. Shoreit (2017). Azoreductase kinetics and gene expression in the synthetic dyes-degrading *Pseudomonas*. Egypt J. Applied Science,
- 22- Mekkawy AI, El-Moktar MA, Nafady NA, **Yousef N**, Hamad MA, El-shanawany SM, Ibrahim EH, Elsabahy M. 2017. In vitro and in vivo evaluation of biologically synthesized silver nanoparticles for topical applications: effect of surface coating and loading into hydrogels. Int. J. Nanomedicine;12; 159-777. Impact Factor: 5.0
- 23- **Naeima M H Yousef** and Hanan ATemerk (2017). Enhancement of the Antibacterial Potential of Biosynthesized silver Nanoparticles Using Hydrophilic Polymers. BMRJ. 19 (3) 1-9.
- 24- Doaa M. Abd El-Aziz and **Naeima M. H. Yousef (2017)**. Antimicrobial Effects of Calcium Oxide Nanoparticles and Some Spices in Minced Meat. ARC Journal of Animal and Veterinary Sciences Volume 3, Issue 2, 2017, PP 38-45.
- 25- **Naeima M H Yousef 2018**. Capability of Plant Growth-Promoting Rhizobacteria for Producing Indole Acetic Acid under Extreme Conditions. EJBR 8 (4) 174-182.
- 26- **Naeima M H Yousef 2018**. Antimicrobial agents produced by *Streptomyces*. Formatex Research center, Spain. Understanding microbial pathogens: current knowledge and educational ideas on antimicrobial research. (Enrique Torres-Hergueta and A. Méndez-Vilas, Eds.)
- 27- **Naeima M H Yousef**, Asmaa M Mawad and Amany H Abeed 2019. Enhancement the Cellulase Activity Induced by Endophytic Bacteria Using Calcium Nanoparticles. Current Microbiology. <https://doi.org/10.1007/s00284-018-1614->. Impact Factor: 1.59
- 28- **Naeima M H Yousef**, Eman AlDaby, Asmaa M Mawad and Marwa Hasanein. 2018. Isolation of Sulfur Oxidizing Bacteria from Polluted Water and Screening for Their Efficiency of Sulfide Oxidase Production. Global NEST Journal. Impact Factor: 0.7
- 29- **Naeima M H Yousef** and Nemmat A Hussein 2019. Antimicrobial activity of mycosynthesized titanium oxide nanoparticles against some pathogenic bacteria and multidrug resistant *Candida* species. The third international conference on Basic and Applied science, 10 March, Assiut university, Egypt.
- 30- Ahmad Hamdy, Ahmad Abo Markeb, **Naeima M H Yousef**, Nagwa Abo El-Maali, 2019. Optimization of the bioelectricity generation of microbial fuel cells from agricultural wastes using response surface methodology. The 6th international conference for young researchers for basic and applied science (ICYS-BAS19). 27-30th March 2019, Faculty of Science, Assiut University.
- 31- **Naeima M. H. Yousef**, Hannan Temark, Zienab Heussien, Khaled Ebnawaled (2019) Multidrug Resistant Bacteria Associated with Children Chronic Tonsillitis at Qena University Hospital. Second international conference of pure and applied science 20-22 Oct. 2019 Egypt.
- 32- **Naeima M. H. Yousef** , Khaled Ebnawaled, Hannan Temark, Zienab Heussien (2019). Magnesium Oxide nanoparticles as antibiofilm agent against Multidrug Resistant Bacteria causing Tonsillitis. 9<sup>th</sup> international conference of Plant science and Microbial biotechnology (ICPMB) 6-7 Nov. 2019 Sohag, Egypt.

- 33- Mohamed Gomma and **Naeima M. H. Yousef**, (2020) Optimization of production and intrinsic viscosity of an exopolysaccharide from a high yielding *Virgibacillus salarius* BM02: Study of its potential antioxidant, emulsifying properties and application in the mixotrophic cultivation of *Spirulina platensis*. Int. J. Biological Macromolecules.
- 33-Zeinab Heussien **Naeima M. H. Yousef**, Hannan Temark, Khaled Ebnawaleed (2020) Isolation, identification and antibiogram study of pathogenic bacteria mediated Children Chronic Tonsillitis at Qena University Hospital, Egypt. **SVU-IJMS**, 4(2):1-8
- 34-Nemmat A Hussein and **Naeima M H Yousef** 2020. Synergistic effect of mycosynthesized titanium oxide and silver nanoparticles in combination with tioconazole against some pathogenic microorganisms. J. Basic and Applied Mycology (Egypt), 11: 1-20
- 35- Asmaa M Mawad, Hesham A, **Naeima M H Yousef** , Ahmed A. Shoreit, Nicholas Gathergood and Vigai K. Gupta. 2020. The role of bacterial-fungal consortium for enhancement in the degradation of industrial dyes. Current Genomics 21, 283-294.
- 36- **Naeima M H Yousef** , Eman S. E. Eldaby and Eman Essa (2020). Optimization of the cellulase enzyme production by halophilic bacterium *Brevibacterium halotolerans* isolated from Wadi El Natron, Egypt. Assiut University Journal of Botany & Microbiology.
- 37- **Naeima M H Yousef**, Doaa Abdel Aziz, Martina Mansour. Isolation and molecular characterization of foodborne pathogenic bacteria from fermented meat products. Assiut University Journal of Botany & Microbiology.
- 38- **Mawad A. M. M., M., Hassanein, M., Aldaby, E. S., & Yousef, N.** (2020). Desulfurization Kinetics of Thiophenic Compound by Sulfur Oxidizing *Klebsiella oxytoca* SOB-I. *Journal of Applied Microbiology*. <https://doi.org/10.1111/jam.14829>
- 39- Dalia Kamal Rawy, Sameeh Kamal Hemida, Ahmed Askora, Mohamed Ahmed El-Mokhtar, **Naeima Yousef** 2020 Biological characterization of two bacteriophages infecting *Klebsiella pneumoniae*. J. Multidiscip. Sci. 2020, 2(1), 1-10.
- 40- Dalia Kamal Rawy, Mohamed Ahmed El-Mokhtar, Sameeh Kamal Hemida, Ahmed Askora, **Naeima Yousef** 2020. Isolation, characterization and identification of *Klebsiella oxytoca* from Assiut University Hospital and sewage water in Assiut Governorate, Egypt. Assiut University Journal of Botany & Microbiology.
- 41- Abdel-Kader HAA, **N Yousef**, MA Hossain, MFA Dawood Lipid Production, Oxidative Status, Antioxidant Enzymes and Photosynthetic Efficiency of *Coccomyxa elodii* SAG 216-2 in Response to Calcium Oxide Nanoparticles. Phyton (0031-9457) 92 (7)
- 42- **Yousef NMH**, AW Danial, AMM Mawad Fermentative Bioconversion of Non-pretreated Wheat Bran to Hydrogen via Cellulolytic *Rosellomorea marisflavi* and Role of Calcium Oxide Nanoparticles for enhancement gas productivity. Waste and Biomass Valorization 15 (6), 3255-3268



- 43-Naeima M H Yousef**, Eman S. E. Aldabi and Eman Essa. 2021. Optimization of the cellulaseenzyme production of *Brevibacteriumhalotolerans*isolated from Wadi El-Natron, Egypt. Assiut University Journal of Botany & Microbiology.
- 44-Naeima M H Yousef**, Doaa Abdel Aziz, Martina Mansour. 2021. Molecular characterization of foodborne pathogenic bacteria isolated from fermented meat products. Journal Multidisciplinary Sciences( J.Multidiscip. Sci. 3(2),
- 45-Naeima M H Yousef& Asmaa M. Mawad**. 2023. Characterization of thermo| halo stable cellulase produced from halophilic *Vigibacillus salarius* BM-02 using pretreated biomass. Journal of Microbiology and Biotechnology.
- 46-Mahmoud S., Abdel-Aziz and Yousef N.** 2024. Molecular characterization and antibacterial activity of bacteriocin-producing lactic acid bacteria isolated from some fermented meat products. Assiut Vetrinary Medical Journal. Vol. 70 No. 180: 110-122; 2024.
- 47-Hashem N., Yousef N.** And El-Shazoly R. 2024 Production and optimization of extracellular amylase from halophilic bacteria *Cytobacillus oceanisediminis* isolated from Wadi El-Natron, Egypt. SQU Journal for Science, Sultan Qaboos University 29 (1), 28-43.
- 48-Yousef N., Danial A., Mawad A.** 2024. Fermentative bioconversion of non-pretreated wheat bran to hydrogen via cellulolytic *Rossellomorea marisflavi* and role of calcium oxide nanoparticles of enhancement gas productivity. Waste and Biomass Valorization. <https://doi.org/10.1007/s12649-023-02373-4>.
- 49-Naeima M H Yousef**, Mawad A., Aldaby E. 2025. Kinetic properties of cellulase enzyme of *Brevibacterium halotolerans* under optimum conditions in submerged fermentation. 2nd international conference of Biological Science, 17-18 Feb. Assiut University.
- 50-Naeima M H Yousef**, Mawad A., Aldaby E. and Hassanein M.2025. Characterization of Chromium (VI)-Resistant Bacteria isolated from Industrial Waste Water. 2nd international conference of Biological Science, 17-18 Feb. Assiut University.
- 51-Naeima M H Yousef**, Eman S. E. Aldaby, Eman Eisa and Abdel-Kader H. 2024 Production and optimization of bacterial exopolysaccharides for mitigation of NaCl –salinity in *Vicia faba* seedling growth. AUNJ-vol 2; 1-19
- 52-Thraa Ali, Mona Attia ,Naeima Yousef 2024.** Isolation and characterization of *Staphylococcus aureus* from dairy cow raw milk in Assiut, Egypt. AUNJ-vol2; 99-125.
- 53-Ahmed Salah, Abd-El-Latif Hesham, Naeima Yousef and Asmaa Mawad 2024.** Isolation and characterization of zinc resistant bacteria from Assiut Governorate soils. Accepted
- 54-Naeima M. H. Yousef**, Zeinab Soliman, Fatma Dardir, Ezzat Ahmed, Mamdouh Soliman and Mostafa R. Abukhadra **2025.** Antimicrobial activity of Sodalite Composites (Ca, Fe, Mg and Zn) on Human Foodborne Pathogens. Submitted



- 55-Naeima M. H. Yousef 2025. PCR Applications in Microbiology.** 2nd international conference of Biological Science, 17-18 Feb. Assiut University.
- 56-Rehab M.M. Hamouda, Dalia A. Gaber, Naeima M.H. Yousef 2025.** Diversity of Bacterial Endophytes Associated with Sugarcane and Their Nutritional Characteristics. submitted
- 57-Zeinab Heussien, Naeima Yousef, Hannan Temark, A. A. Ebnawaled 2025.** Green Magnesium oxide nanoparticles (MgO-NPs) as an antibacterial agent against multidrug-resistant bacteria causing tonsillitis. submitted
- 58-**

## Training Courses

1. Attended and participated in the **BotanikarTagung** workshop held in September 1200 in Bielefeld, Germany.
2. Attended an international workshop titled **Redox Regulation: From Molecular Response to Environmental Adaptation**, July 2200, Bielefeld, Germany.
3. Completed the **Effective Presentation Skills** training program, August 25-27, 2007, Assiut University.
4. Completed the **Teaching with Technology** training program, October 27–29, 2007, Assiut University.
5. Completed the **Quality Assurance and Accreditation** training program, May 30–31, 2006, Assiut University.
6. Completed the **Scientific Publishing** training program, September 1–3, 2007, Assiut University.
7. Passed the **Examination Systems and Student Assessment** training program, September 8–10, 2007, Assiut University.
8. Completed the **Communication Skills in Various Educational Modes** training program, August 8–9, 2014, Assiut University.
9. Passed the **Basic Credit Hour System** training program, March 15–17, 2008, Assiut University.
10. Completed a training course on **Electron Microscopy**, March 22–27, 2008.
11. Completed a training course on **Biodiversity of Fungi in Biological Control of Plant Pests and Diseases**, March 15–20, 2014.
12. Attended a workshop titled **Waste Recycling and Optimal Utilization**, November 15, 2013, Assiut University.
13. Attended the **Modern Teaching Strategies (Active Learning)** course, 1432 AH, Taif University, Saudi Arabia.
14. Attended the **Communication Skills in Dialogue Development** course, 1432 AH, Taif University, Saudi Arabia.
15. Attended the **Academic Leadership** course, 1434 AH.
16. Attended a course on using **EndNote Software**, March 2–3, 2013, Assiut University.
17. Attended a course on **Publishing and Grant Writing**, April 23, 2013, Assiut University.
18. Attended a workshop on **Networking**, March 20, 2014, organized by the German Academic Exchange Service (DAAD), Assiut University.

19. Participated in the second workshop for laboratory technicians in **Plant Technology and Microbiology**, September 23–25, 2014, Assiut University.
20. Attended a workshop on **Scientific Thinking and Argumentation Skills for Problem Solving**, November 2, 2014, organized by DAAD, Assiut University.
21. Participated in a practical segment of the **18th Fungi Workshop**, March 2015, Assiut University.
22. Attended the workshop **New Molecular Approaches for Diagnosis and Control of Viral Diseases**, December 6–8, 2015, Molecular Biology Unit, Assiut University.
23. Completed the **Basic Electronic Course Design** training program (15 hours), February 9–10, 2016.
24. Completed the **Activation of Electronic Course Design** training program (15 hours), February 23–24, 2016.
25. Participated in the **19th Fungi Workshop**, March 13–17, 2016, with a lecture titled *The Role of Microbes in Bioplastic Production*.
26. Organized and delivered a lecture on **Bioplastic** at the *First One-Day Conference on Green Economy*, April 19, 2016, Assiut University.
27. Organized a student trip for second-year students to visit **Juhayna Factory**, Assiut's **Remote Sensing Center**, and the **Fungi Center**, April 6, 2016.
28. Organized and conducted a workshop titled **Novel Approaches for the Diagnosis of Hepatitis E Viruses**, May 2016, at the Multidisciplinary Research Excellence Center, Assiut University.
29. Completed the training program **Financial Aspects in University Operations**, August 21–22, 2016, Assiut University.
30. Completed the training program **How to Write a Competitive Research Proposal**, August 28–29, 2016, Assiut University.
31. Completed the training program **Organizing Scientific Conferences**, September 4–5, 2016, Assiut University.
32. Attended a workshop on **Forensic Evidence**, October 31, 2016, at the Multidisciplinary Research Excellence Center, Assiut University.
33. Organized student visits to the Multidisciplinary Research Excellence Center and the Electron Microscopy Unit.
34. Attended a workshop titled **ELISA Principles and Applications**, November 30–December 1, 2016, Molecular Biology Unit, Assiut University.
35. Participated in the **20th Fungi Workshop**, March 2017, Assiut University.
36. Attended the **Workshop in Material Science and Nanotechnology** organized by the Departments of Physics and Chemistry, Faculty of Science, Assiut University, October 25, 2017.
37. Participated in and delivered a lecture at the **Second Al-Azhar Conference for Young Researchers**, March 12–14, 2018.
38. Attended the **21st Fungi Workshop**, November 2017, Assiut University.
39. Attended the **22nd Fungi Workshop**, November 4–8, 2018, Assiut University.
40. Participated in the scientific seminar of the Department of Genetic Engineering, Faculty of Agriculture, 2018–2019, Assiut University.
41. Attended a workshop on **Using the Digital Library**.
42. Attended a workshop on **Using the Academic Email System**.
43. Attended the **23rd Fungi Workshop**, November 8–10, 2019, Assiut University.
44. Organized a workshop titled **Safety Procedures in Microbiology Labs**, September 18, 2023, at the Department of Botany and Microbiology, Faculty of Science, Assiut University.
45. Organized a workshop titled **Preparation of Plant Slides**, December 24–25, 2023, at the Department of Botany and Microbiology, Faculty of Science, Assiut University.

46. Organized a workshop titled **Biodiversity Assessment**, May 20–22, 2024, at the Department of Botany and Microbiology, Faculty of Science, Assiut University.
47. Organized a workshop on **PCR Applications in Microbiology**, September 18–19, 2024, at the Department of Botany and Microbiology, Faculty of Science, Assiut University.
48. Attended the training program for preparing candidates for the position of Faculty Dean, September 2024.

## Conferences

1. Attended and presented a research paper at the **BotanikarTagung Conference**, September 17–22, 2000, Jena, Germany.
2. Participated in the **5th Annual Conference of the Future Studies Center**, Assiut University, November 23–25, 2004.
3. Attended the **6th International Conference of Pharmaceutical Sciences**, March 12–13, 2008, Assiut University.
4. Participated in the **26th Meeting of the Saudi Biological Society** (Climate Change and Biodiversity), May 10–12, 2011, Taif University.
5. Attended the **Second Scientific Conference for Higher Education Students**, 1434 AH, Saudi Arabia.
6. Participated in the **7th International Conference on Development and the Environment in the Arab World**, March 23–25, 2014, Assiut University.
7. Presented research at the **6th International Conference of the Egyptian Society for Environmental Sciences**, February 2–4, 2015, Suez Canal University, titled *Bioremediation of Acid Blue 25 Dye by Anthracene-Degrading Pseudomonas pseudoalcaligenes ASU-016*.
8. Delivered a lecture at the **Second Applied Mycology Conference**, March 2015, Assiut University.
9. Presented research at the **1st International Multidisciplinary Sciences Conference**, October 28–31, 2015, Porto Sokhna, organized by the Multidisciplinary Research Excellence Center, Assiut University.
10. Participated in the **10th Pharmaceutical Sciences Conference**, April 13–14, 2016, Assiut University.
11. Attended the **5th Young Researchers Conference**, October 29–November 1, 2016, Multidisciplinary Research Excellence Center, Faculty of Science, Assiut University.
12. Presented research at the **2nd Multidisciplinary Sciences Conference**, January 28–30, 2018, organized by the Multidisciplinary Research Excellence Center, Faculty of Science, Assiut University. Research title: *Capability of Plant Growth-Promoting Rhizobacteria for Producing Indole Acetic Acid under Extreme Conditions*.
13. Presented research at the **3rd Basic and Applied Mycology Conference**, March 9–10, 2019, Assiut University. Research title: *Antimicrobial Activity of Mycosynthesized Titanium Oxide Nanoparticles Against Pathogenic Bacteria and Multidrug-Resistant Candida Species*.
14. Presented research at the **2nd Pure and Applied Chemistry Conference**, October 20–22, 2019, Hurghada. Research title: *Multidrug-Resistant Bacteria Associated with Chronic Tonsillitis in Children at Qena University Hospital, Egypt*.
15. Attended the **International Symposium on Cereal Molecular Plant Breeding and Genetics**, November 9, 2022, organized by the Department of Genetics, Faculty of Agriculture, Assiut University.

16. Participated in the **8th Young Researchers Conference**, October 27–28, 2024, jointly organized by Assiut University and Badr University, serving as Chair of the Plant and Microbiology Research Session.
17. Organized and Rapporteur the **2nd International Conference on Biological Sciences**, February 17–18, 2025.