





Curriculum vitae

Prof. Dr. Yasser H. El-Halmouch

Date of birth: 17 February 1970
Address: Botany and Microbiology Department,
Faculty of Sciences, Kafrelsheikh
University, Egypt.
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Scientific degrees:

1. **BSc. in Botany**, Faculty of Science, Tanta University (May 1991, grade very good (83.6%).
2. **MSc. in Microbiology**. Faculty of Science, Tanta University. (1997)
Thesis entitled "*The role of certain microorganisms in biological control of leaf spot disease in sugar beet*".
3. **Ph.D. in Plant Pathology** - Subspecialty: "Molecular Biology", Faculty of Sciences and Techniques, **University of Nantes, France**, (November 2004). Thesis under the title "*Research on the Mechanism of Resistance in some tomato species, as histological, physiological and molecular studies*".

The academic degrees:

1. **Demonstrator of biology**, Department of Biology, College of Education, Al-Arish, from 1996 to 1997.

2. **Assistant Lecturer of Microbiology**, Department of Biology, Faculty of Education, Arish, from 1997 to 2005.
3. **Lecturer of Molecular Biology and Plant Pathology**, Department of Biology, Faculty of Education, Al-Arish, from March 2005 to 2010.
4. **Lecturer of Molecular Biology and Plant Pathology**, Department of Botany and Microbiology, Faculty of Sciences, Damanhur University, from February 2011 to 2019.
5. **Associate Professor of Microbiology**, Department of Biotechnology - Faculty of Science - Taif University from 2012 to May 2016.
6. **Member of the Faculty Research and Scientific Activities Committee** for Quality Assurance and Accreditation (2012-2016).
7. **Associate Professor of Microbiology, specializing in Bacteriology**, Faculty of Science, Damanhour University, 29/10/2019- 30/11/2021.
8. **Associate Professor of Microbiology**, Faculty of Sciences, Kafrelsheikh University, 01/12/2021.
9. **Vice Dean of the Faculty of Science for Postgraduate Studies and Research**, Kafrelsheikh University, from 8/8/2022 to 07/31/2024.
10. **Professor of Microbiology** , Faculty of Sciences, Kafrelsheikh University, 29/04/2025.
11. **Head of Botany and Microbiology department**, Faculty of Sciences, Kafrelsheikh University, 01/08/2025.

Training experiences:

1. Lecturer Preparation Course, Faculty of Education, Suez Canal University, 1998.
2. Using computers and various statistical programs.
3. A course in plant molecular biology, Faculty of Science, Alexandria University, 1998.
4. Toefl English language preparation course in 1997.
5. A French language course at the French Cultural Center in Cairo from 1999 to 2000.

6. A scientific mission on the expense of the Faculty of Science at the University of Nantes, France, for a period of 12 months 2007/2008.
LPBV--Laboratoire de Pathologie et Biologie Végétal.
Faculty of Sciences and Technology Nantes University.
7. Participation in a number of seminars and conferences in a number of Egyptian and French universities.
8. A course in the applications of the chain reactions of the RT-PCR technique at Ain Shams University, January 2010.
9. Participation in many workshops at the Quality Unit in the College during the years 2008-2009, including:
 - a. Educational programs and academic standards.
 - b. University book specifications, reality and expectations.
 - c. Transferring courses electronically.
 - d. Practical applications of the digital library.
 - e. Time and meeting management.
 - f. Organizing scientific conferences.
10. Participation in cultural and leadership activities at the Institute for Leadership Development in Helwan "Ministry of Higher Education."
11. Participation in attending the International Conference on Materials Science and its Applications, Taif University, from 13-15 February 2012.
12. Nuclear Radiation Course: Their Applications and Prevention Methods from 20-22 May 2012, Faculty of Science in Taif.
13. Graduation research discussion organizer (the department's scientific committee - Taif University 2014-2016).
14. Member of the Equipment and Laboratories Committee of the Department of Biotechnology (Taif University 2014-2016).
15. Member of the faculty equipment and laboratories committee (Taif University 2014-2016).
16. Certificates for excellence in International scientific publications in 2024 for 6 research papers entitled:

- a. Preparation of a Pectinase-Enriched Multienzyme under Solid State Fermentation of Sugarcane Bagasse.
- b. Evaluation of the Adsorption Efficacy of Bentonite on Aflatoxin M1 Levels in Contaminated Milk.
- c. Complementary spectroscopy studies and potential activities of levan-type fructan produced by *Bacillus paralicheniformis* ND2.
- d. Isolation taxonomical characterization, antimicrobial activity and chemical profiling of thirteen marine-derived fungi from the Mediterranean Sea coasts of Egypt.
- e. *In vitro* assessment of antiviral, antimicrobial, antioxidant and anticancer activities of ulvan extracted from the green seaweed *Ulva lactuca*.
- f. Estimating the Prevalence of Foodborne Pathogen *Campylobacter jejuni* in Chicken and Its Control via Sorghum Extracts.

17. Training courses for staf member depelopement:

	Course	Center	Date
1	Scientific conferences Organization	Suez Canal U.	19-21/08/2008
2	Time and Meeting Management	Suez Canal U.	19-21/08/2008
3	Research team management	Tanta U.	7-9/08/2012
4	Examination and student evaluation systems	Tanta U.	14-16/08/2012
5	Competitive research projects	Kafrelsheikh U.	14-16/07/2013
6	International scientific publishing	Kafrelsheikh U.	23-25/06/2013
7	Research methods	Damanhour U.	8-9/07/2019
8	Credit hours systems course	Kafrelsheikh U.	3-4/07/2019
9	Communication skills	Damanhour U.	10-11/07/2019
10	Decision-Making and Problem-solving	Kafrelsheikh U.	17-18/04/2024
11	Quality standard in teaching	Kafrelsheikh U.	2-3/04/2024
12	Fundamentals of digital transformation (Cloud computing)	Kafrelsheikh U.	24-25/07/2024
13	Fundamentals of digital transformation (Mobile App.)	Kafrelsheikh U.	24-25/07/2024
14	Scientific research eithics	Kafrelsheikh U.	14-15/08/2024
15	Stratigic plan	Kafrelsheikh U.	12-13/06/2024

List of publications:

1. El-Shanshoury A., Agwa H.E, Osman M.S., **El-Halmouch Y.** (2000).
Antifungal activities of *Streptomyces anulatus*, *S. chromofuscuse*, *S. albaduncus* and *Trichoderma viride* against *Cercospora beticola* and *Alternaria alternate* causing sugar beet leaf spot. *Bulletin of the Faculty of science Assiut university*, 29(2-D), 325-343.
2. Osman M. S., Agwa H.E., El-Shanshoury A.R. **El-Halmouch Y.** (2001).
Biocontrol of sugar beet leaf spot disease by *Streptomyces anulatus*, *S. chromofuscus*, *S. albaduncus* and *Trichoderma viride* and their influence on the plant sugar content. *Az. J. Microbiol.*, 51: 109-128.
3. **El-Halmouch Y.**, Benharrat H. Thalouarn P. (2006): Effect of root exudates from different tomato genotypes on broomrape (*O. aegyptiaca*) seed germination and tubercle development. *Crop Protection*, 25: 501-507.
<https://www.sciencedirect.com/science/article/abs/pii/S026121940500222X>
4. **El-Halmouch Y.**, Ghalwash A. (2009): Variation in sensitivity of nine faba bean cultivars to broomrape (*Orobancha crenata*). *International Journal of Agriculture, Environment and Biotechnology*, 2(1): 46-51.
<https://www.cabdirect.org/cabdirect/abstract/20093189285>
5. Gauthier M., Veronesi C., **El-Halmouch Y.**, Leflon M., Jestin C., Labalette F., Simier P., Delourme R. Delavault P. (2012): Characterization of resistance to branched broomrape, *Phelipanche ramosa*, in winter oilseed rape. *Crop Protection*, 42, 56-63.
<https://www.sciencedirect.com/science/article/abs/pii/S0261219412001974>

6. El-Shanshoury A.R., Bazaid S., **El-Halmouch Y.** Ghafar M. (2013). Control the post-harvest infection by *Aspergillus* spp. to Taify table grape using grape epiphytic bacteria. *Life Science Journal*, 10 (1)1821-1836.
http://www.lifesciencesite.com/ljs/life1001/262_16351life1001_1821_1836.pdf

7. Mahmoud S.F., **El-Halmouch Y.** Montaser M.M. (2013). Effect of probiotic bacteria on Karish Cheese production. *Life Science Journal*, 10(2)1279-1284.
http://www.lifesciencesite.com/ljs/life1002/177_16742life1002_1279_1284.pdf

8. **El-Halmouch Y.**, Mehesen A. El-Shanshoury A.R. (2013). The Potential of Cell-free Cultures of *Rhizobium leguminosarum*, *Azotobacter chroococcum* and Compost Tea as Biocontrol Agents for Faba Bean Broomrape (*Orobanche crenata* Forsk.). *Journal of Plant Pathology and Microbiology*, 4(10) 1-9.

9. Bazaid S.A., El-Sharnouby M.E. **El-Halmouch Y.** (2013). Effect of Gamma Irradiation on Production and Chemical Composition of Some Medicinal and Aromatic Plants in KSA Using Tissue Culture Technique. *Life Science Journal*,10:(4), 2105-2114.
http://www.lifesciencesite.com/ljs/life1004/280_21746life1004_2105_2114.pdf

10. Bahobail A.S., Al-Zahrani O.M., El-Sharnouby M.E., **El-Halmouch Y.** (2014). Effect of mycorrhizal fungi on fertilization, growth and essential oil of Taif rose under salinity stress in KSA. *Life Science Journal*, 11(1):83-87.
http://www.lifesciencesite.com/ljs/life1101/011_22526life1101_83_87.pdf

11. Abdel-Hameed S., Bazaid S. El-Zahrani O., **El-Halmouch Y.**, El-Sayed M., El-Wakil E. (2014). Chemical composition of volatile components, antimicrobial and anticancer activity of n-hexane extract and essential oil from *Trachyspermum ammi* L. seeds. *Oriental journal of chemistry*, 30(4):1653-1662.
<https://www.semanticscholar.org/paper/Chemical-Composition-of-Volatile-Components%2C>

12. Mubarak M., **El-Halmouch Y.**, Belal A., Abd Elfadeel M., Nasr EL–Din T., El Sarag E., El Sharnouby, Mahmoud S. (2015). Improving sweet leaf (*Stevia rebaudiana* var. Bertoni) resistance to bialaphos herbicide via bar gene transfer. *Plant Omics Journal*, 8(3), 232-237.
<https://search.informit.org/doi/abs/10.3316/INFORMIT.241002980669290>
13. **El-Halmouch Y.**, El-Shanshoury A.R., Mahmoud S.F., Amer S.A. (2016). Potential of halotolerant rhizobacteria isolated from Taif to promote growth and alleviate the salt stress of barley (*Hordeum vulgare* L.) grown in saline soils. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 7(3):2596-2612.
<https://ksascholar.dri.sa/en/publications/potential-of-halotolerant-rhizobacteria-isolated-from-taif-to-pro-2>
14. **El-Halmouch Y.**, Amer A.S. (2016). Characterization and identification of certain halobacteria isolated from saline soil in Jeddah. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 7(4): 1787-1797.
https://www.researchgate.net/publication/309529075_Characterization_and_identification_of_certain_halobacteria_isolated_from_saline_soil_in_Jeddah
15. AL Zhrani O.M., **El-Halmouch Y.**, Mahmoud S.F. and Gaafar A.M. (2016). The antioxidative and antimicrobial properties of essential oil of certain aromatic plants. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 7(4): 1943-1951.
https://www.researchgate.net/publication/309527860_Antioxidative_and_antimicrobial_properties_of_essential_oil_of_certain_aromatic_plants
16. Abd Elsalam H., Saleh D., El-Sharnouby M., Mahmoud S., **El-Halmouch Y.** (2016). Soil Enzymes Activities as Bio-indicators for Soil Contamination by Heavy Metals from Sewage Sludge Application. *RJPBCS*. 7(5): 3005- 3011.

17. Mahmoud S.F., **El-Halmouch Y.**, AL Zhrani O. M., Amer S.A. (2017). Microbial quality and molecular identification of pathogenic bacterial strains collected from raw camel's milk in Taif region. *Journal of Camel Practice and Research*, 24(1):89-98. DOI : 10.5958/2277-8934.2017.00014.5
<https://www.indianjournals.com/ijor.aspx?target=ijor:jcpr&volume=24&issue=1&article=014>
18. El-Shanshoury A., **El-Halmouch Y.**, Mohamed S. and Fareed M. (2018). Potential of Grape Epiphytic Antagonists to Biocontrol Aspergillus Transmission and Accumulation of Aflatoxin B1 and Ochratoxin A in Post-Harvest Taify Table Grape. *J Plant Pathol Microbiol*, 9: 454. DOI: 10.4172/2157-7471.1000454
<file:///C:/Users/mmmmm/Downloads/potential-of-grape-epiphytic-.pdf>
19. **El-Halmouch Y.** (2019). Adaptive changes in saturated fatty acids as a resistant mechanism in salt stress in *Halomonas alkaliphila* YHSA35. *Egyptian Journal of Botany*, 59 (2) 537 – 549. https://journals.ekb.eg/article_29507.html
20. Eisa A.M, Mekawey A.I., El-Metwally M.M., Mahmoud S.F., **El-Halmouch Y.** (2022). Fungal endophytes of some medicinal plant growing in northwestern coast of Egypt: Isolation, identification and two-way clustering analysis of its antimicrobial activity. *Fresenius Environmental Bulletin* 31(06A)6208-6220.
21. Hamad, G.M., El-Makarem, H.S.A., Allam, M.G., El Okle, O.S., El-Toukhy, M.I., Mehany, T., **El-Halmouch, Y.**, Abushaala, M.M.F., Saad, M.S., Korma, S.A., *et al.* (2023). Evaluation of the Adsorption Efficacy of Bentonite on Aflatoxin M1 Levels in Contaminated Milk. *Toxins* 2023, 15, 107. <https://doi.org/10.3390/toxins15020107>

22. Alzahrani O.M., Sohail M., Mahmoud S.F., Alswat A.S., **El-Halmouch Y. (2023).** Preparation of a Pectinase-Enriched Multienzyme under Solid State Fermentation of Sugarcane Bagasse. *Fermentation* 9, 141. <https://doi.org/10.3390/fermentation9020141>
23. **El-Halmouch Y.**, Ibrahim A.H., Dofdaa N.M., Mabrouk E.M., El-Metwally M.M., Nehira T., Ferji K., Ishihara Y., Matsuo K., Ibrahim M. A. **(2023).** Complementary spectroscopy studies and potential activities of levan-type fructan produced by *Bacillus paralicheniformis* ND2. *Carbohydrate Polymers*,120743. <https://doi.org/10.1016/j.carbpol.2023.120743>
24. El-Metwally M.M., Mekawey A.I., **El-Halmouch Y.**, Naga, N.G. **(2023).** Symbiotic Relationships with Fungi: From Mutualism to Parasitism. In: Rashad, Y.M., Baka, Z.A.M., Moussa, T.A.A. (eds) *Plant Mycobiome*. Springer, Cham. https://doi.org/10.1007/978-3-031-28307-9_15
25. Masoud E., Hegazy G., **El-Halmouch Y.**, Elmetwally M., Shabaan M. **(2023).** Isolation taxonomical characterization, antimicrobial activity and chemical profiling of thirteen marine-derived fungi from the Mediterranean Sea coasts of Egypt. *Egyptian Journal of Chemistry*, 66(13), 1309-1315. doi: 10.21608/ejchem.2023.206858.7886 https://journals.ekb.eg/article_304068.html
26. Maray S.O., Abdel-Kareem M.S., Mabrouk M.E., **El-Halmouch Y.**, Makhlof M.E. **(2023).** *In vitro* assessment of antiviral, antimicrobial, antioxidant and anticancer activities of ulvan extracted from the green seaweed *Ulva lactuca*. *Thalassas: An International Journal of Marine Sciences*, 1-12 <https://link.springer.com/article/10.1007/s41208-023-00584-z>
27. Hamad, G.M., Gerges, M., Mehany, T., Hussein, S.M., Eskander, M., Tawfik, R.G., **El-Halmouch, Y.**, Mansour, A.M., Hafez, E.E., Esatbeyoglu, T., *et al.* **(2023).** Estimating the Prevalence of Foodborne Pathogen *Campylobacter*

jejuni in Chicken and Its Control via Sorghum Extracts. *Pathogens*. 12, 958.

<https://doi.org/10.3390/pathogens12070958>

28. **El-Halmouch**, Y., Nasr, E., Al-Sodany, Y., El-Nogoumy, B., Mahmoud, Y. (2024). Biosurfactants production by some Aspergilli species under solid state fermentation. *Egyptian Journal of Botany*, 64(2), 745-764. doi: 10.21608/ejbo.2024.261884.2652
29. Aly A.M., Bahamdain L.A., El-kholy A.S., Alsebaey E.F., Aly M.M., **El-Halmouch Y.** (2024). Prevalence and molecular characterization of TEM and CTX-M Beta-Lactamase genes of *Escherichia coli* isolated from cow milk. *Journal of Contemporary Medical Sciences*, 10 (3), 254-261.
30. El-Naggar A., **El-Halmouch Y.**, El-Nogoumy B., El-Mohsnawy E. (2024). Safe and promising bioconversion of rice cellulosic waste into algal biomass. *Egyptian Journal of Botany*, 64(3), 301-312. DOI: 10.21608/ejbo.2024.273997.2744
31. Mahmoud, Y.AG., **El-Halmouch**, Y.H., Nasr, E., Yassin M. Al-Sodany, Baher A. El-Nogoumy, Sameh S. Ali (2024). Exploring the potential of biosurfactants produced by fungi found in soil contaminated with petrochemical wastes. *Scientific Reports*, 14, 25733. <https://doi.org/10.1038/s41598-024-75865-5>
32. Gamal Hamad, Mukhtar Abushaala, Nisrin Tarhuni, Taha Mehany, Raghda Moawad, Wahid El-Desoki, Mohamed Nagm El-diin, Mohammed Abd-Elmonem, **Yasser El-Halmouch**, Amany EL Sharkawy, Amr Amer, Sadeq Alhag, Laila Al-Shuraym, AL-Farga Ammar, Asmaa Moneeb (2025). *Yersinia enterocolitica* in milk, cheese, yoghurt, and ice cream: Its detection and controlling by some marine algal extracts. *Food science and Technology LWT*, (215), 117184. <https://doi.org/10.1016/j.lwt.2024.117184>.

33. Gamal M Hamad, Najla Mohamed Abushaala, Naglaa KF Elshamandy, Dalia Rawy Kamal Ibrahim, Rasha G Tawfik, Ahmed Rashad Mahmoud, **Yasser El-Halmouch** et al., (2026). Protective efficacy of nanoencapsulation of algal extract for preventing and controlling *Clostridium botulinum* in fish products, (133), 104889. <https://www.sciencedirect.com/science/article/abs/pii/S0740002025001698>

Conferences:

- 1- Benharrat H., Véronési C., El-Halmouch Y., and Thalouarn P. (2003): Signals and enzymes exchanges during the host root parasitic plant (Orobanch) interaction. Plant Biology and the challenge of functional Genomic. In proceeding of the 5th General Meeting of the French Society of plant Physiologists. J.L., Prioul, J. Vidal, J. Brulfert and M. Miginiac-Maslow eds. Orsay, FRANCE, 177-178.
- 2- Benharrat H., **El-Halmouch Y.**, Thalouarn P. (2005): Etude de la résistance à *L'Orobanche* de 50 lignées d'introggression de tomate. 6^{ème} Congrès de la S.F.P. Toulouse, FRANCE, 23-25.
- 3- **El-Halmouch Y. H.**, Mubarak M. H., Belal A. H., El Geddawy I. H. and El Sarag E. I. (2010): Somaclonal variation in *Stevia rebaudiana* Bert. as revealed by ISSR markers. *The sixth international Conference of substation. Agriculture and development. Faculty of Agriculture. Fayoum University, 27-29 December*, 107-114.
- 4- **Y. El-Halmouch** and A. Mehesen (2013). Enhancing of faba bean resistance to broomrape (*Orobanche crenata* Forsk.) by *Rhizopium leguminosarum* and compost tea. The 8th conference of Natural resources and sustainable development. *Faculty of Science, Zagazig University*, 122-133.

- 5- **El-Halmouch Y.**, Mehesen A. (2013). Biocontrol of faba bean broomrape (*Orobancha crenata* Forsk.) by *Rhizopium leguminosarum*, and compost tea. 65th International Symposium on Crop Protection. May 21, *Appl. Biol. Sci*, Ghent University. Ghent, Belgium.
- 6- Abdel-Hameed S., Bazaid S. El-Zahrani O., **El-Halmouch Y.**, El-Sayed M., El-Wakil E. (2015). Chemical composition of volatile components, antimicrobial and anticancer activity of *n*-hexane extract and essential oil from *Trachyspermum ammi* L. seeds. Saudia Biological Society, Tabuk University, 7-9 April.
- 7- **El-Halmouch Y.**, Mubarak M., Belal A., Abd Elfadeel M., Nasr EL –Din T., El Sarag E., El Sharnouby, Mahmoud S. (2015). Resistance improvement of *Stevia rebaudiana* (Bertoni) to bialaphos herbicide via *bar* gene transfer. Saudia Biological Society, Tabuk University, 7-9 April.
- 8- Mahmoud F. S., Montaser M. M., AL Zhrani M. O., Amer S. M., **El-Halmouch Y.** (2015). Isolation and molecular identification of the lactic acid bacteria from raw Camel's milk in Taif, Saudi Arabia. Saudia Biological Society, Tabuk University, 7-9 April.
- 9- **El-Halmouch Y.** (2018). Cellular fatty acid alteration in *Halomonas alkaliphila* YHSA35 as a response to salt stress. 8th International Conference in Microbial and Plant Biotechnology (ICMPB), Kafrelsheikh University, Egypt, 3-4 October.

All articles and my citation at:

<https://scholar.google.com/citations?user=FGepo9AAAAAJ&hl=en>

Researches and scientific thesis arbitration:

	Student name	Address	Institution	Date
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1	Nourhan E. A. Mansour (Master)	Optimization of the Antibacterial Agent(s) Produced by a Local Strain of Actinomycetes and Study of their Applications	Alexandria University	30/03/2021
2	Eman Masoud Sherif (Master)	Antimicrobial and anticancer secondary metabolites from some marine derived fungi	Damanhour University	18/09/2023
3	Hager Salah Mahmoud Nagdy (Master)	Detection of microbes inhabiting air and surfaces in indoor niches of bibliotheca Alexandria	Alexandria University	20/11/2023
4	Israa Taha Shehata Amer (Master)	Natural antimicrobial nanocomposites based on biopolymers	Kafrelsheikh University	08/02/2024
5	Yasmin Mohamed Radwan (Master)	Evaluation of phosphate solubilization by halophilic/ halotolerant microbial isolates.	Damanhour University	22/08/2024
6	Azza Zaghloul El-Naggar (Master)	Establish a biotechnological model for microbial conversion of cellulosic wastes into useable biofuel	Kafrelsheikh University	24/10/2024
7	Reham Reda Kamel Mohamed (Master)	Extraction of anthraquinone from some marine organisms	Kafrelsheikh University	03/12/2024
8	Amr Mohamed Ali Ibrahim (Master)	Prevalence, antimicrobial susceptibility and molecular characterization of some enteric bacteria in cow milk	Kafrelsheikh University	15/04/2025
9	Ahlam Ahmed Abo-Robu	Bioactivity of phytochemicals composites with marine polymers as antimicrobial agents	Kafrelsheikh University	05/05/2025

Current researches

1. Biosurfactants production from Eurotiales members.
2. Microbial cell adaptation under salt stress.
3. Tomato leaf spot biocontrol.
4. Antibiotic isolation and identification from certain actinomycetes.
5. Chitinase activity studies of certain microbial isolates in bioremediation process.

Groups Collaboration

- 1) *LPBV*-Laboratoire de Biologie Moléculaire et Pathologie Végétal, Faculty of Sciences and Technology Nantes University, Nantes France. (2000 -2012).

- 2) Research Central Laboratory, Field Crops Research Station, Sakha, Kafr El Sheikh, Egypt. (2008- 2010).
- 3) Biotechnology Department, Faculty of Science, Taif University. (2011-2022).
- 4) Microbiology department – faculty of sciences Kafrelsheikh university.
- 5) Botany and Microbiology department – Faculty of Sciences Damanhour university, Damanhour, Egypt (2011-till now).
- 6) National Institute of Oceanography and Fisheries (NIOF), Egypt.(2016- till now)

Teaching Experience:

- 1- Bacteriology 2- Mycology 3- General Microbiology
- 4- Physiology of Fungi 5 - Medical Mycology 6- Molecular biology
- 7- Taxonomy of Fungi. 8- Plant Physiology 9- Plant Pathology
- 10- Virology 11- Cytogenetics 12- Plant improvement
- 13- Host parasite relation 14- General Microbiology 15- Immunology
- 16- Industrial Microbiology. 17- Water Microbiology. 18- Genetics Cell biology

وما توفيقي إلا بالله ،،،