CURRICULUM VITAE

PERSONAL DATA

Name	**Yasser M. Shabana**
Title	Professor and Chairman of Plant Pathology Department; Faculty of Agriculture, Mansoura University, Egypt
Date of Birth	July 1, 1960
Place of Birth	Damietta, Egypt
Citizenship	Egyptian
Marital Status	Married + two boys (1993 & 1997)
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Scopus Profile:	https://www.scopus.com/authid/detail.uri?authorId=6701681968
Linkedin Profile:	https://www.linkedin.com/in/yasser-shabana-a8787126?trk=nav_responsive_tab_profile
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UNIVERSITY EDUCATION

1987-1992 **Ph.D.** Plant Pathology, Faculty of Agriculture, Mansoura University, Egypt (through a joint supervision system with the University of Florida, USA)
Thesis Title: Biological Control of Waterhyacinth by Using Plant Pathogens.
Advisors: Professors R. Charudattan (USA) and M.A. Elwakil (Egypt).

1984-1987 **M.Sc.** Plant Pathology, Faculty of Agriculture, Mansoura University, Egypt.
Thesis Title: Biological Control of Water Weeds by Using Plant Pathogens.
Advisor: Professor Mohamed A. Elwakil

1977-1981 **B.Sc.** Agricultural Sciences (Plant Production), Faculty of Agriculture, Mansoura University, Egypt. **Subject:** Plant Production.

PROFESSIONAL EMPLOYMENT HISTORY

2017-Now **Chairman**, Plant Pathology Dept., Mansoura University, Egypt.
2013-2017 **Vice-Dean** for Graduate Studies, Research, and Cultural Affairs; Mansoura Univ., Egypt.
2010-2013 **Chairman**, Plant Pathology Dept., Mansoura University, Egypt.
2004-2005 **Chairman**, Plant Pathology Dept., Mansoura University, Egypt.
2003- **Professor**, Plant Pathology Dept., Mansoura University, Egypt.
1998-2003 **Associate Professor**, Plant Pathology Dept., Mansoura University, Egypt.
1992-1998 **Assistant Professor**, Plant Pathology Dept., Mansoura University, Egypt.
1987-1992 **Research Assistant**, Ph.D. Candidate, Plant Pathology Dept., Mansoura Univ., Egypt.
1981-1987 **Demonstrator**, Plant Pathology Dept., Mansoura University, Egypt.

SCIENTIFIC MISSIONS AND PROFESSIONAL TRAINING

Mar 2020-Apr 2020	Visiting Scientist at the Plant Pathology Dept., University of Florida, Gainesville, FL, **USA**.
July 21-27, 2019	Visiting Professor at the Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara, **Romania**.
May 6-12, 2018	Visiting Professor at the University of Pitesti, **Romania**.
Feb 2018-Mar 2018	Visiting Scientist at the Plant Pathology Dept., University of Florida, Gainesville, FL, **USA**.
Aug 2016-Sep 2016	Visiting Scientist at the Plant Pathology Dept., University of Florida, Gainesville, FL, **USA**.
Aug 2014-Sep 2014	Visiting Scientist at the Plant Pathology Dept., University of Florida, Gainesville, FL, **USA**.
Sep. 2012-Oct 2012	Visiting Scientist at the Plant Pathology Dept., University of Florida, Gainesville, FL, **USA**.
July 2006-June 2009	**Program Manager of Weed Biocontrol, Plant Pathology Dept., University of Florida, Gainesville, FL, USA**
July 2005-July 2006	Visiting Professor at Botany & Plant Pathology Dept., Purdue University, West Lafayette, IN, **USA**.
Feb. 2005	Visiting Professor at the Royal Veterinary and Agricultural University, Copenhagen, **Denmark**.
Jan. 2005	Visiting Professor at the Institute of Plant Production and Agroecology in the Tropics and Subtropics, University of Hohenheim, Stuttgart, **Germany**.
Apr. 2002	Visiting Professor at the Plant Protection Research Institute (PPRI), Stellenbosch, **South Africa.**
Jan. 2002	International Trainer at the International Institute of Tropical Agriculture (IITA), **Benin**.
Aug. 2001-Sept. 2001	Visiting Scientist at the Plant Pathology Dept., University of Florida, Gainesville, FL, **USA**.
Mar. 2000-Aug.2001	**Alexander von Humboldt Research Fellow**, Institute of Plant Production and Agroecology in the Tropics and Subtropics, University of Hohenheim, Stuttgart, **Germany**.
Oct. 1999-Feb. 2000	German Language Scholarship, Goethe Institute, Schwäbisch Hall, **Germany**.
Nov. 1998-Dec. 1998	Visiting Scientist at the Plant Pathology Dept., University of Florida, Gainesville, FL, **USA**.
Aug. 1998	Visiting Scientist at the Biological Control Institute, CABI Bioscience, Ascot, **UK.**
Nov. 1994-Apr. 1997	Visiting Research Scholar at the Plant Pathology Dept., University of Florida, Gainesville, FL, **USA** (working on a research project funded by USDA-ARS).
Aug. 1994-Sep. 1994	Visiting Scientist at the Plant Pathology Dept., University of Florida, Gainesville, FL, **USA**.

Nov. 1989-Nov 1991 Exchange Student / Visiting Scholar (100% research), Plant Pathology Dept., University of Florida, **USA**, through a joint supervision system (channel system) to complete a cooperative Ph.D. program between Mansoura University, Egypt and University of Florida, USA.

MAJOR RESEARCH INTEREST

General plant pathology, biological control of plant diseases and weeds, plant disease management, weed management and model systems, invasive weeds management, and microbial pesticides.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

1. American Phytopathological Society (APS) (since 1991)
2. Panel member in the APS International Relations Committee (2014-2017)
2. Former committee member in the APS Biological Control Committee (2001-2004)
3. International Society of Plant Pathology
4. Weed Science Society of America (WSSA) – ex-member
5. Committee member in the WSSA Biological Control Committee (2009-2012)
6. International Weed Science Society (IWSS) – ex-member
7. Near East Weed Science Society (NEWSS)
8. Arab Society for Plant Protection (ASPP)
9. Florida Weed Science Society (FWSS) – ex-member
10. American Association for Advancement of Sciences (AAAS) - ex-member
11. International Organization for Biological Control (IOBC) – ex-member
12. International Bioherbicide Group (IBG)
13. The International Parasitic Plant Society (IPPS) – ex-member
14. International Society for Pest Information (ISPI)
15. Egyptian Phytopathological Society
16. Egyptian Mycological Society
17. Agricultural Sciences Society, Mansoura University, Egypt
18. Egyptian Society of State Science Award Winners (ESSSAW)
19. Agricultural Professions Syndicate of Egypt
20. Honorary membership in the Caribbean Food Crops Society
21. Founding member of the Egyptian Society of Electronic Microscopy since its inception in 2019.
22. **National Scientific Committee** to examine the scientific production of applicants for the positions of professors and assistant professors in the field of Plant Protection and Plant Pathology in the Egyptian Universities (2019-2022), Supreme Council of Egyptian Universities, Ministry of High Education, Egypt.

ACADEMIC AWARDS

2020 Prize for the "Best Scientific Department" in Mansoura University in the fields of basic sciences, life sciences and engineering sciences for the year 2019.

2019 Prize for the "Best Applied Research" in Cairo Water Week (20-24 October 2019) - The award was presented by His Excellency the Minister of Irrigation and Water Resources.

2017 Mansoura University **Award of Merit**

2016 **First Place Award** for Posters presented at the Fifth International Conference for Biological and Environmental Sciences, Sharm El-Sheikh, Egypt 21-25 March 2016.

2014 Mansoura University **Incentive Award for International Publications**.

2013 Mansoura University **Award for Scientific Innovation.**

2011 Mansoura University **Award for Academic Excellence**.

2010 Mansoura University **Incentive Award for International Publications**.

2010 Shabana's *et al.* paper published in "Biological Control" (Vol. 54: 159-165) was ranked in the **Top 10 Most Downloaded Articles** within this journal - June 2010.

2010 Biographical record in **Marquis Who's Who in the World®** in 2010 Edition, the premier biographical data source of notable individuals from major fields of science. Distributed globally, Who's Who in the World® is relied upon by historians, journalists, business people, educators, and researchers of all types for its accuracy and currency of information for biographical research and networking.

2009 Biographical record in **Marquis Who's Who in America®** in 2009 Edition (110th Anniversary Edition).

2008 Biographical record in **Marquis Who's Who in Science and Engineering®** (10th Anniversary Edition), which is limited to those individuals who have demonstrated outstanding achievements in their own fields and who have contributed significantly to the betterment of contemporary society.

2007 **Nominated for** the 8th **IFS Sven Brohult Award** by the IFS, Sweden.

2005 Shabana's paper published in "Biological Control" (Vol. 32: 78-89) was ranked as No. 13th in the **Top 25 Hottest Articles** within this journal between January and March 2005.

2004 **Distinguished Scholar Award of the Arab Fund Fellowships Program,** Research fellowships of international acclaim (a 12-month research/teaching period in the best universities of the world) that are offered by the Arab Fund for Economic and Social Development, Kuwait on a competitive basis for outstanding, internationally recognized researchers of Arab nationalities in all disciplines.

2002 **Certificate of Donation** (Scientific Equipment) from Alexander von Humboldt (AvH) Foundation, **Germany.**

1999 **Alexander von Humboldt (AvH) Research Fellowship.** AvH enables highly qualified scholars from around the world to spend extended periods of research in Germany. There are no quotas, either for individual countries or for individual scientific disciplines. Selection decisions are made independently and solely on the basis of the applicant's academic excellence. The perspective of the AvH Foundation is to attract the very best of the best and thus strengthen research in Germany. It links together approximately 23,000 Humboldtians throughout the world (in more than 130 countries), including 40 Nobel Prize Winners.

1998 **Shoman Prize for the Young Arab Scientists** (Jordanian Dinar 5,000 = US$ 7,000). Only one award is bestowed to an Arab scientist under the age of 40 who achieved unique and superior research with excellent academic and social value to the Arab nation in the field of agricultural science.

1998 **State Incentive Award of Egypt** (LE 10,000 = US$ 3,000). This award is given to Egyptian young scientists who performed original and excellent research with exceptional scientific value to the nation in the field of agricultural sciences. Only 6 are given per year in all fields of Agricultural Sciences.

1997 **Mansoura University Incentive Award** for research of exceptional merit.

1993 **IFS/KING BAUDOUIN AWARD** (US$ 1,000) from the International Foundation for Science, Sweden for the best research project.

1988-1992 **Ph. D. Scholarship,** Ministry of Higher Education, Egypt.

1983-1987 **M. Sc. Scholarship,** Mansoura University, Egypt.

1978-1981 Annually received **Undergraduate Student Awards** (monthly financial support from Mansoura University) for achieving high standing.

MAJOR GRANTS RECEIVED IN EGYPT

Obtained funding in competitive grants for research projects, grants of scientific equipment, scientific periodicals and travel grants totaling more than 32 million Egyptian pounds between 1989 and 2020 from national and international funding agencies including: the International Foundation for Science in Sweden (IFS) and the Third World Academy of Sciences (TWAS) In Italy, Mansoura University, the Egyptian Ministry of Agriculture, the Supreme Council of Egyptian Universities, the Academy for Scientific Research & Technology (ASRT) in Cairo, the Science and Technology Development Fund (STDF), the Higher Education Development Fund (HEEPF) in Egypt, the Project Management Unit at the Ministry of Higher Education, the University of Florida (USA), and the University of Hohenheim (Germany), Alexander von Humboldt (AvH) Foundation (Germany), DANIDA (Denmark), CABI-Bioscience (UK), the European Commission, the British Council and the AHRC (UK). He also participated in 9 research projects in the USA (at the University of Florida as Program Manager, and Purdue University) and Germany (University of Hohenheim) with a total fund of 1.5 million US$.

Year	Agency	US$ Amount
2020	Ministry of Agriculture of **Egypt**; an extension grant	1,000
2019	(AHRC) of the United Kingdom; a research grant	453,000
2019	STDF/British Council – Newton Musharafa Fund, (Egypt-UK); a research grant	352,000
2019	Ministry of Agriculture of **Egypt**; an extension grant	1,000
2017	Ministry of Agriculture of **Egypt**; an extension grant	2,000
2016	Ministry of Agriculture of **Egypt**; an extension grant	2,000
2014	Ministry of Agriculture of **Egypt**; an extension grant	2,000
2013	Ministry of High Education	214,300
2013	STDF, Egypt; a research grant	73,600
2013	Ministry of Agriculture of **Egypt**; an extension grant	2,500
2012	Ministry of Agriculture of **Egypt**; an extension grant	2,500
2012	Academy of Scientific Research and Technology, Egypt; a research grant	167,000
2005	International Foundation for Science (IFS), **Sweden**; a research grant	12,000
2005	Ministry of Agriculture of **Egypt**; an extension grant	1,000
2004	Ministry of Agriculture of **Egypt**; an extension grant	1,000
2004	Higher Education Enhancement Project Fund, **Egypt** – shared grant	112,455
2004	TEMPUS – IMG program, **European Commission**; a travel grant	3,500
2003	Alexander von Humboldt Foundation, **Germany**; an equipment grant	30,000
2001	Alexander von Humboldt Foundation, **Germany**; a travel grant	1,350
2001	DANIDA, **Denmark** + CABI Bioscience, **UK** – shared grant	361,138
2000	University of Hohenheim, **Germany**; a travel grant	400
2000	IFS, **Sweden**; a travel grant	300
1999	Mansoura University, **Egypt**	6,500
1999	Supreme Council of **Egyptian** Universities; equipment grant	88,200
1998	University of **Florida**; a travel grant	400
1998	Mansoura Univ. & Ministry of High Education, **Egypt**; travel grant	2,000
1998	Ministry of Agriculture of **Egypt**; a research grant	7,500
1998	IFS, **Sweden**; a travel grant	2,200

1994	Mansoura University, **Egypt;** research and travel grant	2,200
1994	IFS, **Sweden**; a travel grant	3,000
1994	IFS, **Sweden**; a renewal research grant	12,000
1993	The Third World Academy of Sciences (TWAS), **Italy**; a research grant	2,000
1992	Univ. **California** & **Florida**; back issues of scientific journals	20,000
1991	IFS, **Sweden**; a renewal research grant	12,000
1990	Mansoura University, **Egypt**	7,300
1989	IFS, **Sweden**; a research grant	8,000
TOTAL		**US$ 2,004,343**

INTERNATIONAL RECOGNITION

1. **Member of the Scientific Committee of the International Symposium** Current Trends in Natural Sciences. In its thirteenth edition (April 2020) in Pechti, **Romania.** http://natsci.upit.ro/international-symposium/scientific-committee
2. **Member of the Organizing Committee of the 3rd World Conference** on Plant Science & Molecular Biology, held on 18-19 June 2020 in St. Petersburg – **Russia.** https://www.scientificfederation.com/plant-science-2020/committee.php
3. **Organizing Committee Member** at **International Conference on plant & Agriculture Science** 21-22 October 2019- **Malaysia**. https://www.conclaveinternational.com/icpas2019/scientific-commitee/
4. Member in the **Scientific Committee** of the **International Symposium Current Trends in Natural Sciences.** 18 – 20 April 2019, Pitesti, **Romania.** http://natsci.upit.ro/international-symposium/scientific-committee/
5. Organizing Committee Member for the **International Conference on Plant Science and Molecular Biology.** August 19-20, 2019 Osaka, **Japan.** http://plantscience-molecularbiology.scientificcolloquium.com/
6. Organizing Committee Member for **the International Conference on Agriculture and Horticulture.** September 21-22, 2018 in Vancouver, **Canada**. http://agriculture.alliedacademies.com/
7. **Visiting Professor at University of Pitesti, Romania-** sponsored by the **EU's Erasmus**$^{+}$ Program for International Mobility for Staff Teaching activities - May 6-12, 2018**.**
8. **Consultant for a Saudi Arabian National Plan Research Project titled "**Establishment of the First Culture Collection Bank for Seed-Borne Pathogenic Fungi in The Kingdom of Saudi Arabia" funded by the Kingdom's Long-Term Comprehensive National Plan for Science, Technology, and Innovation (**1.850,000 Saudi Riyals**) – 2014-2016.
9. **Consultant for a Saudi Arabian National Plan Research Project titled "**Development of Biological Fungicides Using Endemic Strains of *Streptomyces* spp. to Control Tomato Seed-Borne Pathogenic Fungi in Saudi Arabia" funded by the Kingdom's Long-Term Comprehensive National Plan for Science, Technology, and Innovation (**1.700,000 Saudi Riyals**) – 2011-2013.
10. Selected as a biographee in the prestigious Marquis **Who's Who in Science and Engineering**® in its 2008 edition, in the 2009 edition of **Marquis Who's Who in America**®, and in the 2010 edition of **Marquis Who's Who in the World**®.
11. Elected as a **Scientific Advisor** by the International Foundation for Science (Sweden) since 1998.

12. Elected as active panel member of the International Relations Committee of the American Phytopathological Society (2014-2017).

13. Elected as active panel member of the Biological Control Committee of the American Phytopathological Society (2001-2004).

14. Elected as active panel member of the Biological Control Committee of the Weed Science Society of America (2009-2012).

15. Elected as an **Editor** for the international journal: **IJRDO - Journal of Agriculture and Research** | ISSN: 2455-7668 – since 29 July 2020. https://ijrdo.org/index.php/ar/about/editorialTeam

16. Elected as an **Editor** for the international journal: **ES Journal of Agriculture and Current Research" –** Publisher: eScientific International Open Library **-** since 9 January 2020 - https://www.escientificlibrary.com/agriculture/Editorial_Board.php

17. Elected as an **Editor** for the international journal: **"Current Trends in Natural Sciences" –** Publisher: University of Pitesti, Romania **-**since 4 January 2020 - https://www.natsci.upit.ro/editorial-board/

18. Elected as an **Editor** for the international journal: "Advances in Agricultural Technology & Plant Sciences (AATPS)" – Chembio Publishers - since 6 May 2019. https://chembiopublishers.com/AATPS/editorial-board.php

19. Elected as an **Editor** for the international journal: "international Research Journal of Biological Sciences – SciRange Publications" since 19 October 2018. https://scirange.com/sci-169

20. Elected as an **Editor** for the international journal: "Journal of Research in Weed Science (JRWS)" since 8 October 2018. http://www.jrweedsci.com/journal/editorial.board

21. Elected as an **Editor** for **Iris Open Access Journal of Agriculture & Soil Science** since 18 June 2018.

22. Elected as an **Editor** for the international journal: **"Acta Scientific Agriculture",** https://www.actascientific.com/ASAG-EB.php since 31 May 2018**.**

23. Selected as an **Editor** for the international journal: **"EPH- International Journal of Science & Engineering",** https://ephjournal.com/index.php/se/about/editorialTeam since 31 March 2018**.**

24. Selected as an **Editor** for the international journal: **"COJ Reviews and Research (COJRR)"** published by Crimson Publishers, LLC, USA**,** http://crimsonpublishers.com/cojrr/editorial-board.php since 10 January 2018**.**

25. Selected as an **Editor** for the international journal: **"SCIREA Journal of Biology", Science Research association (http://www.scirea.org/journal/Biology)** since March 2017**.** http://www.scirea.org/journal/EditorialBoard?JournalID=18000

26. Selected as an **Associate Editor** for the online journal "**Advances in Plant & Agriculture Research**" (2016-present), http://medcraveonline.com/APAR/editorial-board.

27. Selected as an **Editor** for **the American Journal of Plant Biology** since December 2016**.** http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=612

28. Selected as an **Editor** for "**the Open Access Journal of Science and Technology (Microbiology**)", since Oct 2016. http://www.agialpress.com/journals/oajost/editorialboard/

29. Selected as an **Editor** for the international journal "**Agriculture International Acta"** (2012-present).

30. Selected as an **Editor** for the **International Scholarly Research Network** (ISRN, Agronomy) http://www.hindawi.com/journals/isrn/editors/agronomy/ (Editorial Board) (2012-present).

31. Regional Editor for the international journals "Plant Pathology Journal" (2005-2007) and "Journal of Biological Sciences", ISI (2007-2009), and as Associate Editor for the international journals "International Journal of Plant Pathology", **"**Research Journal of Agricultural Research", and **"**Journal of Environmental Science and Technology" (2008-2009)

32. Peer reviewer for well-reputed international journals [i.e., Biological Control (Academic Press/Elsevier), Biocontrol Science and Technology (Taylor and Francis Ltd, UK), BioControl (Springer Netherlands), Weed Research (Blackwell Publishing), Aquatic Botany (Elsevier), Plant Pathology Journal (ANSI Publishing), Journal of Biological Sciences (ANSI Publishing)].

33. Invited speaker and/or trainer by many international institutions (i.e., CABI Bioscience, UK; Novozymes Biologicals, USA; Purdue University, USA; University of Hohenheim, Germany, University of Patras, Greece; Royal Veterinary and Agricultural University, Denmark; International Institute of Tropical Agriculture, Benin; Arab Society for Plant Protection, and others).

IMPACT AND FUTURE BENEFITS OF DR. SHABANA'S RESEARCH

Dr. Shabana's research is focused on solving real agricultural problems particularly in the tropical and subtropical regions. A major part of his research has been concentrating on biological control of weeds, parasitic plants, and plant diseases of global importance.

Dr. Shabana's research has influenced the field of biological control, especially his work on waterhyacinth. It was the basis for initiating the International Mycoherbicide Program for *Eichhornia crassipes* Control in Africa (IMPECCA), involving four International agencies [CABI Bioscience (UK Centre), UK; CABI Bioscience, Africa Regional Centre (ARC), Kenya, International Institute of Tropical Agriculture (IITA), Benin, West Africa; and Danish International Development Assistance (DANIDA), Denmark] in addition to four research institutions [Mansoura University, Egypt; Plant Protection Research Institute (PPRI), South Africa, Department of Research and Specialist Services (DRSS), Zimbabwe; and Danish Institute of Agricultural Sciences (DIAS), Denmark].

Dr. Shabana's research on the fungal biocontrol agent *Phomopsis* sp. formed the foundation for further work in Dr. Charudattan's laboratory, University of Florida that resulted in two U.S. patents. This fungal pathogen is now being considered as a potential key to the control of glyphosate-resistant Palmer amaranth, a herbicide-resistant weed in cotton in the southern United States.

Dr. Shabana's research at the University of Hohenheim, Germany has had general involvements for the management of parasitic weeds that cause severe problems and outbreak in Sub-Saharan African agriculture and Eastern Europe.

Dr. Shabana's research at Purdue University on the development of the fungal biocontrol agent, *Microsphaeropsis amaranthi* as a bioherbicide for the control of waterhemp, a serious weed in U.S. Midwestern cropping systems, led to a novel technique of cost-effectively mass-producing high quality (more virulent) fungal spores, which can be useful for other fungi too. The efficacy of this biocontrol agent was further improved by its formulation in vegetable oil emulsion. These results have been of a great benefit to Dr. Hallett's research program.

The findings of Dr. Shabana's recent research at the University of Florida that involves the development of a novel, organic mulch-based delivery system for a biocontrol agent of purple and

yellow nutsedges, two of the worst weeds affecting agricultural production in the U.S. and major part of the world, have a great chance of facilitating technology transfer and promotion of a small business enterprise through collaboration with the University of Florida.

Dr. Shabana's research in collaboration with the UK team of the University of Hertfordshire on the impacts of climate change on occurrence and distribution of the pathogenic seed-borne fungi of wheat and maize in Egypt is aiming to recommend short- to medium-term measures to deal the challenge to food security from threats of crop diseases and climate change and provide evidences for government to formulate long-term agricultural policies to mitigate and adapt field crop production so as to maintain national food security in the face of the rapidly growing population.

Dr. Shabana's research in collaboration with researchers from the College of Archeology, Damietta University and the UK team of the University of Bedfordshire on the green conservation of cultural heritage in Egypt is aiming to green-preserving cultural heritage, thus developing tourism industry, increasing national income, and developing stability and economy welfare in Egypt.

LEADERSHIP AND CONTRIBUTION IN RESEARCH/EDUCATIONAL PROJECTS

1. Principal Investigator of a research project titled "Impacts of climate change on occurrence and distribution of the pathogenic seed-borne fungi of wheat and maize in Egypt" funded by STDF + British Council, UK (2019-2021).
2. Co-PI of a research project titled "Green Conservation of Cultural Heritage in Egypt" funded by STDF + Art & Humanities Research Council (AHRC, UK) (2019-2022).
3. Principal Investigator of a research/extension project on evaluating chemical fungicides for the control of bacterial diseases of vegetables and fruit trees in Dakahlia Governorate, Egypt (2016, 2017, 2019, 2020).
4. Principal Investigator of a research project titled "Production of granular bioherbicide to combat broomrape in faba bean fields" (June 2013 – Dec. 2015).
5. Executive Director of a laboratory accreditation project for "Seed Pathology and Tissue Culture Lab" at Faculty of Agriculture, Mansoura University (July 2013 – Sept. 2015).
6. Principal Investigator of a research/extension project on evaluating chemical fungicides for the control of bacterial diseases of vegetables and fruit trees in Dakahlia Governorate, Egypt (2013 and 2014).
7. Principal Investigator of a research/extension project on evaluating chemical fungicides for the control of downy mildew of grape in Dakahlia Governorate, Egypt (2012).
8. Co-PI on a STDF research project on "The Possible Role of Using Heavy Metals Contaminated Water in Agriculture on the Hepatocellular Carcinoma Incidence in Egypt" (June 2012-Aug. 2015).
9. Program Manager of Weed Biocontrol at Plant Pathology Department, University of Florida, managing all of the fungal bioherbicide projects, which focused on three research projects on: purple and yellow nutsedges, glyphosate-resistant Palmer amaranth, and weedy grasses (July 2006 – June 2009).
10. Research Fellow on the biological control program on waterhemp and pigweed at Purdue University (July 2005 – June 2006).
11. Executive member of a Higher Education Enhancement Project to improve learning programs in Plant Production at the Faculty of Agriculture and bring them to the international standards (US$ 112,455) (2004-2005).
12. Director of a research project on biological control of *Orobanche crenata* and *O. ramosa* in

legumes and Solanaceae crops funded by the International Foundation for Science (IFS) Sweden (2005-2008).

13. Principal Investigator of a research/extension project on evaluating chemical and biological fungicides for the control of powdery mildew of pepper, eggplant, and artichoke in Dakahlia Governorate, Egypt (2002-2005).
14. Coordinator and executive member of the International Mycoherbicide Program for *Eichhornia crassipes* Control in Africa (IMPECCA) funded by DANIDA, Denmark and sharing with 5 African countries and CABI Bioscience, UK (US$ 361,138) (2000-2003).
15. Alexander von Humboldt (AvH) Research Fellow on the biological control program on sunflower broomrape at the University of Hohenheim, Germany (2000-2001).
16. Principal Investigator of a research project on the biological control of waterhyacinth funded by the Ministry of Agriculture, Egypt (1998 & 1999).
17. Research Fellow on the biological control program on the aquatic weeds (waterhyacinth and hydrilla) and the land weed (pigweed) at the University of Florida, USA (1989-1991; 1994-1997; 2000; 2001).
18. Principal Investigator of a research project on the biological control of waterhyacinth funded by the International Foundation for Science (IFS), Sweden (US$ 35,000) (1989-1998).
19. Principal Investigator of a research project on the heavy metals dynamics and their impact on biological control of waterhyacinth by a mycoherbicide, funded by the Third World Academy of Sciences (TWAS), Italy (US$ 2,000) (1993).
20. Panel member in the National Campaign for Improving the Yield of Maize in Dakahlia Governorate, Egypt (Extension Project, 1991-1993).
21. Panel member in the National Extension Project on surveying the common smut disease of maize in Dakahlia Governorate, Egypt, funded by the Supreme Council of Egyptian Universities (1984).

SIGNIFICANT SCIENTIFIC ACTIVITIES AT NATIONAL & INTERNATIONAL LEVEL

1. Member of the Committee to review the regulations of the university awards and scientific publication incentives by the decision of the Vice President for Graduate Studies and Research on 2/9/2020.

2. Member of the Evaluation Committee of the applications for graduate scholarships for professionals offered by USAID - 30/8/2020.

3. A judge for the Assiut University Encouragement Award for the Academic Year 2019/2020

4. **Coordinator of the Memorandum of Understanding** between Mansoura University, the **University of Hertfordshire**, England, and the International Center for Agricultural Research in the Dry Areas (**ICARDA**) and the Center for Agricultural Research of the Ministry of Agriculture and Land Reclamation – (7/11/2019).

5. **Coordinator of the Memorandum of Understanding** between Mansoura University and the **University of Florida, USA** (June 2014).

6. **Coordinator of the Memorandum of Understanding** between Mansoura University and the **Tashkent Agricultural University,** Uzbekistan (12/28/2016).

7. Coordinator of the University's Doctor of Plant Medicine Program, in cooperation with the University of Florida, USA (Distinguished Professional Master's Program).

8. **Member of the National Scientific Committee** to examine the scientific production of applicants for the positions of professors and assistant professors in the field of Plant Protection and Plant Pathology in the Egyptian Universities (2019-2022).
9. **Member of the Scientific Committee of the International Symposium** Current Trends in Natural Sciences. In its thirteenth edition (April 2020) in Pechti, **Romania.** http://natsci.upit.ro/international-symposium/scientific-committee
10. **Member of the Organizing Committee of the 3rd World Conference** on Plant Science & Molecular Biology, held on 18-19 June 2020 in St. Petersburg – **Russia.** https://www.scientificfederation.com/plant-science-2020/committee.php
11. **Organizing Committee Member** at **International Conference on plant & Agriculture Science** 21-22 October 2019- **Malaysia**. https://www.conclaveinternational.com/icpas2019/scientific-commitee/
12. Member in the **Scientific Committee** of the **International Symposium Current Trends in Natural Sciences.** 18 – 20 April 2019, Pitesti, **Romania.** http://natsci.upit.ro/international-symposium/scientific-committee/
13. Organizing Committee Member for the **International Conference on Plant Science and Molecular Biology.** August 19-20, 2019 Osaka, **Japan.** http://plantscience-molecularbiology.scientificcolloquium.com/
14. **Member of the Technical Committee** for evaluation of project proposals submitted to Science and Technology Development Fund **(STDF) -** January 2019.
15. Organizing Committee Member for **the International Conference on Agriculture and Horticulture.** September 21-22, 2018 in Vancouver, **Canada**. http://agriculture.alliedacademies.com/
16. **Member of the Supreme Council of Centers of Excellence at Mansoura University** since its establishment in November 2016.
17. **Director of Electron Microscopy Unit,** Mansoura University (July 2013 – present).
18. **Director of Central Laboratories,** Faculty of Agriculture, Mansoura University**.** My responsibility is to govern the Central Labs' human and financial resources; consolidate and run them in service of the academic and commercial purposes (July 2012 – Nov. 2013).
19. **Consultant for a Saudi Arabian National Plan Research Project titled "**Establishment of the First Culture Collection Bank for Seed-Borne Pathogenic Fungi in The Kingdom of Saudi Arabia" (2014-2016).
20. **Consultant for a Saudi Arabian National Plan Research Project titled "**Development of Biological Fungicides Using Endemic Strains of *Streptomyces* spp. to Control Tomato Seed-Borne Pathogenic Fungi in Saudi Arabia" (2011-2013).
21. **Co-inventor** of **two U.S. Patents** and two pending Egyptian Patents.
22. **Scientific Adviser** for the Aquatic Resources area for the International Foundation for Science (IFS), **Sweden** since 1998.
23. **Editor** for the international journal: **IJRDO - Journal of Agriculture and Research |** ISSN: 2455-7668 – since 29 July 2020. https://ijrdo.org/index.php/ar/about/editorialTeam
24. **Editor** for the international journal: **ES Journal of Agriculture and Current Research" –** Publisher: eScientific International Open Library **-** since 9 January 2020 - https://www.escientificlibrary.com/agriculture/Editorial_Board.php
25. **Editor** for the international journal: **"Current Trends in Natural Sciences" –** Publisher:

University of Pitesti, Romania -since 4 January 2020 - https://www.natsci.upit.ro/editorial-board/

26. **Editor** for the international journal: "Advances in Agricultural Technology & Plant Sciences (AATPS)" – Chembio Publishers - since 6 May 2019. https://chembiopublishers.com/AATPS/editorial-board.php
27. **Editor** for the international journal: "international Research Journal of Biological Sciences – SciRange Publications" since 19 October 2018. https://scirange.com/sci-169
28. **Editor** for the international journal: "Journal of Research in Weed Science (JRWS)" since 8 October 2018. http://www.jrweedsci.com/journal/editorial.board
29. **Editor** for **Iris Open Access Journal of Agriculture & Soil Science** since 18 June 2018.
30. **Editor** for the international journal: **"Acta Scientific Agriculture",** https://www.actascientific.com/ASAG-EB.php since 31 May 2018**.**
31. **Editor** for the international journal: **"EPH- International Journal of Science & Engineering",** https://ephjournal.com/index.php/se/about/editorialTeam since 31 March 2018**.**
32. **Editor** for the international journal: **"COJ Reviews and Research (COJRR)",** published by Crimson Publishers, LLC, USA**,** http://crimsonpublishers.com/cojrr/editorial-board.php since 10 January 2018**.**
33. **Editor** for the International Journal: **"SCIREA Journal of Biology", Science Research Association** (http://www.scirea.org/journal/Biology) since March 2017**.** http://www.scirea.org/journal/EditorialBoard?JournalID=18000
34. **Editor** for **the American Journal of Plant Biology** since December 2016**.** http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=612
35. **Editor** for "**the Open Access Journal of Science and Technology (Microbiology**)", since Oct 2016. http://www.agialpress.com/journals/oajost/editorialboard/
36. **Associate Editor** for the online journal "**Advances in Plant & Agriculture Research**" (2016-) - http://medcraveonline.com/APAR/editorial-board.
37. **Editor** for the International Journal **Agriculture International Acta** (2014-)
38. **Editor** for the **International Scholarly Research Network** (ISRN, Agronomy) (2012-) http://www.isrn.com/journals/agronomy/editors/ (Editorial Board) (2012-present).
39. **Regional Editor** for **"Plant Pathology Journal"**, an international journal of ANSInet Publications (2005-2007).
40. **Regional Editor** for the "**Journal of Biological Sciences**", an international journal of ANSInet (2007-2009).
41. **Associate Editor** for the "International Journal of Plant Pathology" (2008-2009).
42. **Associate Editor** for the **"**Research Journal of Agricultural Research" (2008-2009).
43. **Associate Editor** for the **"**Journal of Environmental Science and Technology" (2008-2009).
44. **Panel member of the International Relations Committee** of the American Phytopathological Society (APS) for a 3-year term (2014-2017).
45. **Panel member of the Biological Control Committee** of the American Phytopathological Society (APS) for a 3-year term (2001-2004).
46. **Panel member of the Biological Control Committee** of the Weed Science Society of America

(WSSA) for a 3-year term (2009-2012).

47. **Moderator** of a technical session (Disease Control – Biological) at the 2007 APS/SON Joint Meeting in San Diego, California.
48. **Moderator/Chairperson** of a technical session (Weeds) at the 11th Arab Congress of Plant Protection in collaboration with the Balqaa Applied University in Amman, Jordan (9-13 November 2014).
49. **Co-author for the nomenclature of a new fungal species** (*Phomopsis amaranthicola* Rosskopf, Charudattan, Shabana, et Benny, sp. nov.), Mycologia 92: 114-122.
50. **Invited speaker,** Biology Department, University of Patras, 26500 Rion, **Greece**.
51. **Invited speaker,** 2005 Annual meeting of the S-1001 Regional Committee, New York, **USA.**
52. **Invited speaker,** Novozymes Biologicals, Salem, VA, **USA**.
53. **Invited speaker,** Institute of Plant Production and Agroecology, Univ. Hohenheim, **Germany**.
54. **Invited speaker,** Dept. Plant Biology, Royal Veterinary and Agricultural Univ., **Denmark.**
55. **Invited speaker,** Botany & Plant Pathology Dept., Purdue University, West Lafayette, IN, **USA**.
56. **Invited speaker,** Plant Pathology Dept., University of Florida, Gainesville, FL, **USA**.
57. **Invited speaker,** the 11th Arab Congress of Plant Protection (11th ACPP) in collaboration with the Balqaa Applied University in Amman, Jordan (9-13 November 2014).
58. **Invited consultant** for IMPECCA Program, CABI Bioscience, Silwood Park, Ascot, **UK**.
59. **Guest lecturer** and practical sessions' instructor for M.Sc. students at Univ. Hohenheim, **Germany** (2000).
60. **Invited trainer** by **FAO-United Nations** for a Training Workshop on "Management of the Aquatic Weed, Water Hyacinth in Africa"; Mansoura University, 25-27 August 2015.
61. **Invited trainer** by **IITA for** a Training Workshop for IMPECCA Program, **IITA, Benin**; 8-10 Jan 2002.
62. **Invited speaker**, Plant Protection Research Institute (PPRI), Stellenbosch, South Africa, 2002.
63. **Invited speaker**, in a workshop series about "Weed Control in Organic Farming"; 6 and 13 June 2012, Mansoura University, Egypt.
64. **Invited speaker**, in several training courses for the Ministry of Agriculture institutions, Egypt.
65. **Invited speaker**, in several Elementary and Middle Schools, El-Mansoura, Egypt.
66. **Coordinator & Proceedings Editor**, Egyptian/Sudanese workshop/conference on Biocontrol of Waterhyacinth, Mansoura University 2002.
67. **Peer reviewer** for the International Journals, "Biocontrol Science and Technology", "Biological Control", "BioControl", "Aquatic Botany", "Weed Research", "Plant Disease", "Plant Pathology Journal", "P. J. Biological Sciences".
68. **Peer reviewer** for manuscripts by colleagues at University of Hohenheim, Germany and Mansoura University, Egypt.
69. **Referee** for research proposals for the International Foundation for Science, **Sweden** since 1998.
70. Depositor of a fungal culture with the American Type Culture Collection (ATCC #201659).
71. **Built up a research facility of international importance** at Mansoura University. This facility consisted of a modern lab of Plant Pathology and Research Station for agronomic and aquatic

plants.

72. **Founded a science library** for his Department, Mansoura University (mostly on an international donation basis).
73. **Supervised 33 graduate students**, Plant Pathology Dept., Mansoura University.
74. **Development of various phytopathology courses** for undergraduate & graduate levels.
75. **Taught more than 20 courses** of Plant Pathology and Botany to the undergraduate as well as to graduate students.
76. **Panel member in the extension governmental committee** of the national campaign project for improving the productivity of maize in the Dakahlia Province, Egypt.
77. **General Director and/or Advisor** on the summer training programs for undergraduate student in Plant Pathology Dept., Mansoura University.
78. **Participated in more than 70 international scientific meetings** + many of national meetings.

SUPERVISION OF THESES:

Has supervised/supervising the following PhD and MSc theses:

1. Biological Control of Plant Pathogenic Soil-Borne Fungi. **PhD** (completed)
2. Use of Phage Cocktail Isolated from Egyptian Soil and Essential Oils for Biological Control of Brown Rot Disease of **Potato**. **PhD** (completed)
3. Use of Bioherbicides for *Orobanche* spp. Control in **Tomato** and **Faba Bean**. **PhD** (completed)
4. Feasibility of Using Some Plant Extracts for Biological Control of Some Plant Pathogenic Fungi. **MSc** (completed)
5. Biological Control of Root Diseases of **Sugar Beet** in Egypt. **MSc** (completed)
6. Ecological and Biocontrol Studies on **Water Hyacinth** in Egypt. **MSc** (completed)
7. Biological Control of Brown Spot Disease in **Rice**. **MSc** (completed)
8. Studies on Powdery Mildew Disease in Flax. **MSc** (completed)
9. Studies on Host-Pathogen Interaction of **Rice Blast** Disease. **PhD** (completed)
10. Synthesis of New Fungicides by Biodegradation of Petroleum Wastes to Control **Tomato Diseases**. **MSc** (completed)
11. Biological Control of **Rice** Weeds in Egypt Using Plant Pathogens**. MSc** (completed)
12. Studies on Yellow Rust Disease of **Wheat** in Egypt**. PhD** (completed)
13. Further Studies on Kernel and Ear Rot Disease of **Maize** in Egypt. **PhD** (completed)
14. Use of Silicon for the Control of **Foliar and Root Rot Diseases of Some Medicinal and Aromatic Plants. MSc** (completed)
15. New Trends for **Grape Disease Control** and Its Effects on Yield and Berries Quality**. PhD** (completed)
16. Inducing Systemic Resistance against **Wheat** Rust Diseases. **PhD** (completed)
17. Host-Pathogen Interaction in **Wheat** Yellow Rust Pathosystem**. PhD** (completed)
18. Seed-Borne Pathogens Associated with Imported **Sugar Beet** Seeds in Egypt. **PhD** (completed)
19. Studies on Leaf Rust Disease on **Wheat** and Methods of Its Control**. MSc** (completed**)**
20. Biological Control of **Seed-Borne Diseases of Common Bean**. **MSc** (completed**)**
21. Use of Silicon for the Control of **Brown Spot Disease of Broad Bean**. **MSc** (completed**)**

22. Biological Control of **Tomato** Diseases and Weeds in Egypt**. MSc** (underway**)**
23. Evaluation of Terpenes as Natural Organic Compounds in the Control of **Blight Diseases of Tomato in Organic Farming** in Egypt**. MSc** (underway**)**
24. Use of Silicon for the Control of **Rice and Sugar Beet Diseases** in Egypt. **MSc** (underway**)**
25. **Use of Nanotechnology in Disease Management of Vegetable Crops. PhD** (underway**)**
26. **Biological Control of White Mold Disease of Jerusalem Artichoke** Plants Using Endophytes Isolated from Wild Plants. **MSc** (underway**).**
27. Evaluation of Some Safe Means in Controlling Root Rot Diseases Affecting **Turfgrass. MSc** (underway**).**
28. Survey Study on **Soil Bacteria for Use in Management of Some Plant Pathogens. MSc** (underway)**.**
29. Biological, Serological, and Molecular Studies on *Potyvirus* Infecting **Potato** Plants**. MSc** (underway)**.**
30. Biological Control of Fusarium **Wilt Disease of Cowpea** Using Endophytes Isolated from Wild Plants**. MSc** (underway)**.**
31. Effect of **Flaxseed** Treatment with Some **Antioxidants** on the Control of **Seed-borne Fungi** and Production of **High Quality Fatty Acids. PhD** (underway).
32. Biological Control of **Fusarium Wilt Disease of Tomato** Using Endophytic Microbes**. MSc** (underway)**.**
33. Biological Control of **Dodder in Clover** Fields by Using Fungal-Based Bioherbicides. **MSc** (underway)**.**
34. Advanced Studies on **Wheat Stripe Rust** Disease in Egypt**. PhD** (underway).

COURSES TAUGHT

- Undergraduate Courses:

Has taught 13 undergraduate courses: Botany, Plant Taxonomy, Plant Physiology, Economical Plants, Fundamentals of Plant Pathology, Taxonomy of Fungi, Diseases of Vegetable Crops, Diseases of Field Crops, Diseases of Ornamental Plants, Diseases of Fruit Crops, Management of Plant Diseases, The Relationship between Plant Environment and Plant Diseases, and Research and Discussions.

- Graduate Courses:

Has taught 12 graduate courses: Biological Control of Weeds Using Plant Pathogens, Biological Control of Plant Pathogens, Diseases of Greenhouse Crops, Physiology of Plant-Pathogen Interaction, Management of Plant Diseases (advanced), Resistance and Immunity in Plants, Diseases of Vegetable Crops (advanced), The Relationship between Plant Environment and Plant Diseases (advanced), Viral Diseases of Plants, Research Methods, and Bacterial Diseases of Plants.

TRAINING COURSES/WORKSHOPS (as Course Organizer, Trainer, or Trainee)

1. Served as an organizer of 15 training courses in Mansoura University from April 2015 to Feb 2020.
2. Served as course organizer and an international trainer for researchers from the Nile Basin countries (Egypt - Sudan - Ethiopia - Kenya - Tanzania) of the training workshop on " Bio-management of waterhyacinth in Egypt and the African continent" held at Mansoura University at the invitation of the Food and Agriculture Organization of the United Nations (FAO) in the period

From 25-27 August 2015.

3. Served as an international trainer for researchers from nine African countries in the workshop held in Benin on "Biological control techniques of waterhyacinth in the African continent" at the invitation of the International Institute for Tropical Agriculture IITA (January 8-10, 2002).
4. Completion of the training program through Erasmus Plus for the exchange of professors at Banat University in Timisoara, Romania - from 22 to 26 July 2019
5. Training Course on "Internal Audit" (3-5 March 2019), by the Arab Co. for Engineering & Systems Consultations (A.E.C.).
6. Workshop on "ISO/IEC 17025:2017 OVERVIEW – New Standard Changes" (19 Feb. 2019), Mansoura University.
7. Workshop on "Concepts of ISO/IEC 17025:2017 Standards" (19 – 24 January 2019), by the Arab Co. for Engineering & Systems Consultations (A.E.C.).
8. Attended a seminar on the Library of Congress, Faculty of Law, Mansoura University, 26/3/2017.
9. Workshop on "Reviewing a Manuscript 101" at the annual Meeting of the American Phytopathological Society - Tampa, Florida, USA (August 2, 2016).
10. Workshop on protocol and protocol and its applications for university leadership - 3/4/2016.
11. Workshop on "The internal audit cycle according to ISO 17025-2005 and 19011-2009" - from 23 to 26 February 2015.
12. Seminar on the dangers of the absence of a national vision for counselling and guidance students in Egyptian universities - 2-11-2014.
13. Workshop on "Terms of testing and calibration and control maps + proficiency tests (PT)" (22 April **2014**), Mansoura University.
14. Workshop on "Laboratory quality management system in accordance with the requirements of international standard ISO/IEC/17025/2005" (15 April **2014**), Mansoura University.
15. Workshop on "Historical background on quality - quality laboratory system - concepts of accreditation" (10 April **2014**), Mansoura University.
16. Workshop on "Dissemination of concepts of quality and lab accreditation in applied fields as a component of rehabilitation for Academic Accreditation" (10 Nov. **2013**), Mansoura University.
17. Workshop on "Dissemination of concepts of quality and lab accreditation for university leadership" (28 Oct. **2013**), Mansoura University.
18. Seminar spotlighting the activities of the office of the German Academic Exchange Service (DAAD) and grants provided by the Foundation as well as the Alexander von Humboldt - March 2013 - Faculty of Science - Mansoura University.
19. Seminar about the programs for funding from the STDF - 9/12/2012 - Faculty of Science - Mansoura University.
20. Workshop on "Organic Farming for the Production of Vegetable Crops in Newly Reclaimed Lands" (29 May **2012**), Mansoura University.
21. Workshop series on "Strategy for Integrated Agricultural Development in Dakahlia Governorate, Egypt", Syndicate of Agriculturists, El-Mansours, Egypt (December **2011** & January **2012**).
22. Workshop on "Using Database System", Mansoura University (May, **2011**)
23. Workshop on "Management of Disasters and Crises", Mansoura University (Nov. **2010**).

24. Workshop on "Balance Score Card" as a requirement for quality education (31 Oct. **2010**).

25. The Ethics of Scientific Research, Mansoura University (25 Oct. **2010**).

26. Workshop on Agricultural Educational Programs Specifications in the view of NARS, Mansoura University (25-26 Oct. **2010**).

27. Workshop on the National Academic Reference Standards (NARS) for Agriculture Sector, Mansoura University (12-13 Oct. **2010**).

28. Building Effective International Partnerships Workshop, University of Florida (April **2009**).

29. Florida Weed Science Society Weed Identification Short-Course, Maitland, FL **(2008)**.

30. HeartSaver Adult & Child CPR – Certified (University of Florida, **2008**)

31. Digital presentations and multi-media for digital presentations, Center for Instructional Technology and Training, University of Florida (**2006**).

32. Five-session workshop series on "College Teaching" at Purdue University, USA (**2006**).

33. A training course on "Decision Making and Resolving Problems" at the Mansoura University Developing Center for Leaders (5-8 June **2005**).

34. Attended a training course on "Administration Skills" at the Mansoura University Developing Center for Leaders (8-11 May **2005**).

35. Participated in workshop series on "Developing the capabilities of faculty members and university leaders" - Mansoura University - **May 2005**.

36. Participated in workshop on "Steps and mechanisms for developing curricula" - Mansoura University - **16 May 2005.**

37. Participated in workshop on "University text book: standards & problems" - Mansoura University - **May 4, 2005.**

38. Participated in workshop on "Course development" - Mansoura University - **April 26, 2005.**

39. Participated in workshop on "Teaching methods" - Mansoura University - **April 27, 2005.**

40. Participated in workshop on "Preparing questions in the examination paper" - Mansoura University - **March 2005.**

41. Participated in workshop on "Evaluation of study plans" - Mansoura University - **March 2005.**

42. Participated in workshop on "How to write a research proposal - Mansoura University - **October 10, 2005.**

43. Participated in workshop series on "Management Skills Development - Mansoura University - **8-11 May 2005.**

44. Participated in workshop on " Quality Assurance" - Mansoura University - February - **March 2005.**

45. Attended German language courses in Goethe Institute, Schwäbisch Hall, **Germany (**Oct **99**-Feb **2000**).

46. Participated in a Training Course on "Production and utilization of microbial biomass". Sponsored by Ain Shams University (Cairo, Egypt), University of Maryland (USA), Georgia State University (USA), and UNEP UNESCO ROSTAS. (March 7-17, **1999**).

47. Attended a Training Course on "**Modern techniques in genetic engineering**". Institute of Graduate Studies and Research, Alexandria University (April 4-8, **1999**).

48. Gained a limited experience in digital video image analysis for disease assessment, Univ. Florida (**1995**).

49. Attended an intensive course: "Boating: safety, skills, and seamanship", Gainesville, FL, (**1996**).

50. Attended non-credit, non-graded courses: "Introduction to the internet" and "using the world-wide web and Netscape" at the Center for Instructional Technology and Training, Univ. Florida, (**1996**).

51. Attended Statistics course STA 6166--Statistical Methods in Research. Obtained an "A" grade, University of Florida (**1990**).

52. Attended non-credit, non-graded course series on preparing an ideal university faculty in teaching and doing research, at the Faculty of Education, Mansoura University (**1989**).

DR. SHABANA IN THE MEDIA:

- Tom Nordlie, the Scientific Communication Coordinator of the University of Florida's Institute of Food and Agricultural Sciences (IFAS) has put together a news release concerning the outstanding scientific research of Dr. Shabana that of highly significance to a wide range of farmers, which was published between June and July 2008 in issues of the following outreach magazines:
  1. "Florida Agriculture Trade Publications" (June 2008)
  2. "Inside UF" (June 2008)
  3. "Inside IFAS." - (June 2008)
  4. SouthEast Farm Press- (July 2008)
  5. North Carolina Agribusiness Council (July 2008)
  6. Plant Management Network (July 2008)
- **Articles have been published about Dr. Shabana in:**
  1. Two German public newspapers in January and February 2001.
  2. Water Hyacinth News (two articles; in issues No. 4, 2001 and No. 5, 2002) –by CABI Bioscience UK.
  3. International Foundation for Science (IFS) 30 Anniversary Outreach Report.
  4. Phytopathology News (four articles; in issues of October 1999, December 1999, 2005, Nov. 2006) – by the American Phytopathological Society (APS).
  5. PLP Newsletter (two articles; in the Fall 2006 and Spring 2007) – by Plant Pathology Dept., University of Florida, USA.
  6. International Bioherbicide News (IBG) (two articles; in issues of June 2000 and June 2008).

COMMUNITY SERVICES:

- Served as Boy Scoutmaster and Chairperson, Pack 429, Gainesville, FL, USA (2007-2008).
- Served as Volunteer Teacher of Arabic, Quran, and Islamic Studies for kids aged 5 to 15 in the Sunday School at Hoda Academy, Gainesville, FL, USA (2006-2008).
- Gave several simplified scientific presentations for elementary and middle school students in Dakahlia Governorate, Egypt.
- As a Director of Mansoura University Unit of Electron Microscopy and Molecular Imaging and Director of Seed Pathology and Tissue Culture Lab (accredited lab according to ISO

17025-2005), he received more than 60 delegations from Egypt, Japan, Singapore, Romania, Bulgaria, Sudan, Algeria, Saudi Arabia, Libya, and other countries and guide them in a short introductory tour of the activities of these research and service units.

- Within the framework of the interaction of Mansoura University with the basic and high education institutions and the surrounding society, the Laboratory of Seed Pathology and Tissue Culture and the Electron Microscopy and Molecular Imaging Unit, both Directed by Prof. Yasser Shabana, received numerous student groups from all levels of education (elementary, middle school, high school, and university students) to recognize the laboratory equipment and their applications in a simplified way to create a generation that is interested in scientific research and develop their scientific knowledge, innovation, and skills.

LIST OF PUBLICATIONS

1. Rizk, M.N., Ketta, H.A., **Shabana, Y.M**. **2020.** Antiviral chemical compounds to control the potato virus Y on *Solanum tuberosum* cv. Spounta. European J. Plant Pathology. Submitted.

2. **Shabana, Y.M.**, Ghoneem, K.M., Arafat, N.S., Rashad, Y.M., Aseel, D.G., Fitt, B.D.L., Qi, A., Richard, B. and Sayed, H. **2020.** Mycoflora associated with maize grains sampled from all over Egypt. The Third International Conference on Multidisciplinary Research, October 6-9, 2020 Hurghada, Egypt.

3. Rizk, M.N., Ketta, H.A., **Shabana, Y.M**. **2020.** Ultrastructure of cytopathological responses in *Solanum tuberosum* cv. Spounta infected with necrotic strain of potato virus Y. Archives of Phytopathology and Plant Protection. In press.

4. El-Banawy, N.M., Abdel-Fattah, G.M. Ghoneem, K.M., **Shabana, Y.M. 2020.** Antimicrobial activities of *Trichoderma atroviride* against common bean seed-borne *Macrophomina phaseolina* and *Rhizoctonia solani*. Egyptian Journal of Basic and Applied Sciences 7:1, 267-280, DOI: 10.1080/2314808X.2020.1809849

5. Mahmoud, L.M., Dutt, M., Shalan, A.M., El-Kady, M.E., El-Boray, M.S., **Shabana, Y.M.,** Grosser, J.W. **2020.** Silicon nanoparticles mitigate oxidative stress of in vitro-derived banana (*Musa acuminata* 'Grand Nain') under simulated water deficit or salinity stress. South African Journal of Botany 132: 155-163.

6. Hassan, K.A., Soliman, H., Baka, Z., **Shabana, Y.M**. **2020.** Efficacy of nano-silicon in the control of chocolate spot disease of *Vicia faba* L. caused by *Botrytis fabae*. Egyptian Journal of Basic and Applied Sciences, 7:1, 53-66, DOI: 10.1080/2314808X.2020.1727627.

7. Shawki, K.F.M., Elsayed, A.B.B., Abido, W.A.E., **Shabana, Y.M. 2020.** Using green chemicals and biological control agents for controlling the seed-borne pathogen *Fusarium moniliforme* in sugar beet. J. Plant Protection and Pathology, Mansoura Univ. 11 (2): 63-72.

8. **Shabana, Y.M.**, Ghoneem, K.M., Arafat, N.S., Rashad, Y.M., Aseel, D.G., Fitt, B.D.L., Qi, A., Richard, B. and Sayed, H. **2020.** Diversity of seed-borne fungi in wheat grains sampled from all over Egypt in 2019. The 2020 American Phytopathological Society Northeastern Division Meeting, March 11-13, Northampton, Massachusetts, USA.

9. **Shabana,** Y.M., El-Hawary, M.M., Sadek, M.E. **2019.** Sustainable management of *Orobanche crenata* with a mycoherbicide. The 2019 Annual Meeting of the American Phytopathological Society – Plant Health 2019, August 3-7, Cleveland, Ohio, USA.

10. Mahmoud, L.M., EL-Kady M.E., Elboray M.S., Shalan A.N., **Shabana** Y.M. and Grosser J. W. **2019.** Silicon nanoparticles mitigate the adverse effect of drought induced by polyethylene glycol of *in vitro* banana shoots. The 2019 Annual Meeting of In Vitro Biology, June 8 - 12, Tampa, FL, USA.

11. Hafez, E.E., Rashad, Y.M., Abdulkhair, W.M., Al-Askar, A.A., Ghoneem, K.M. Baka, Z.A., **Shabana**, Y.M. **2019.** Improving the chitinolytic activity of *Streptomyces griseorubens* E44G by mutagenesis. Journal of Microbiology, Biotechnology and Food Sciences 8(5): 1156-1160.

12. Mahmoud, L.M., Shalan A.N., EL-Kady M.E., Elboray M.S., **Shabana** Y.M. and Grosser J. W. **2019.** Efficient protocol for *in vitro* propagation of banana (*Musa* sp.) and improved plant health under abiotic stress in the greenhouse. The 8th Annual UF/IFAS CREC Meeting, April 5, 2019, Lake Alfred, FL, USA.

13. **Shabana,** Y.M. **2019.** Developing host-specific bioherbicide for management of *waterhyacinth* in Egypt. The 2019 Annual Meeting of the Weed Science Society of America, April 11-14, New Orleans, LA, USA.

14. **Shabana,** Y.M., Charudattan, R., and Rosskopf, E**. 2019.** Use of plant debris for low-cost production of a mycoherbicide for weedy nutsedge management. The 14th International Conference on Chemistry and Its Role in Development. 25-28 March 2019, Hurgada, Egypt.

15. **Shabana,** Y.M., El-Hawary, M.M., Sadek, M.E. **2019.** Pesta granular mycoherbicide for combating broomrape in *Vicia faba* field in Egypt. The 2019 Annual Meeting of the Weed Science Society of America, February 11-14, New Orleans, LA, USA. Abstract.

16. **Shabana**, Y.M., Shahin, A.A., El-Sawy, M.M., Draz, I.S., and Youssif, A.W. **2019.** Distribution of *Puccinia triticina* races (pathotypes) in Northern Egypt. The 2019 American Phytopathological Society Northeastern Division Meeting, April 3-5, State College-Pennsylvania, USA. Abstract.

17. Elsayed, Y. and **Shabana,** Y. **2018.** The effect of some essential oils on *Aspergillus niger* and *Alternaria alternata* infestation in archaeological oil paintings. Mediterranean Archaeology and Archaeometry 18(3): 71-87.

18. Elwakil, M.A., Abo-Hashem, E.M., **Shabana**, Y.M., El-Metwally, M.A., El-Kannishy, G., Ali M. El-Adl; Rokiah Anwar; Eman Fawzy; Narmin Saied and Mostafa Elzyat. **2018.** Association between incidences of heavy metals in plants irrigated with contaminated water and their incidence in blood of the consumers. Asian Conference on Science, Technology & Medicine-ACSTM, March 20-22, 2018, Dubai, UAE.

19. **Shabana,** Y.M., El-Hawary, M.M., Sadek, M.E. **2018.** Mass production of Fusarium-based granular mycoherbicide for the management of crenate broomrape in Egypt. The 2018 Annual Meeting of the Weed Science Society of America, January 29 – February 1, Arlington, VA, USA.

20. **Shabana,** Y.M., El-Hawary, M., Eid, M. **2017.** Biological control of *Orobanche crenata* using host-specific mycoherbicides Twelfth Arab Congress of Plant Protection, November 4-10, 2017, Horghada, Egypt.

21. Mohamed A. Elwakil, Ekbal M. Abo-Hashem, Yasser M. **Shabana**, Mohamed A. El-Metwally, Ghada El-Kannishy, **2017**. The Possible Role of Using Heavy Metals Contaminated Water in Agriculture on the Hepatocellular Carcinoma Incidence in Egypt. Scientific Research and Innovative Technology, Mansoura University Conference, 7-9 March, El-Mansoura, Egypt.

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