CURRICULUM VITAE

DR. Zeiad Moussa Abd EL-Moati Ahmed

Personal Data:

Name: Zeiad Moussa Abd El-Moati Ahmed

Date of Birth: 23rd June1972

Place of birth: Baklia - Mansoura - Dakhlia- Egypt

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Qualifications:

1. Ph.D. (Microbiology), Faculty of Science at Damietta, Mansoura University, Egypt (2006).

2. M.Sc. (Genetics and Cytology) Faculty of Science, Zagazig University, Egypt (2003).

3. B.Sc. (Botany), Faculty of Science, Mansoura University, Egypt (1996).

Position Held:

1. Researcher – Bacterial Diseases Research Department – Plant Pathology Research Institute – Agricultural Research Center – Giza – Egypt, from 2011 – now. **And**: Tag El-Ezz Agricultural Research Station -Temai Al-Amdid - Dakahlia - Egypt

2. Agricultural Research Specialist – Bacterial Diseases Research Department – Plant Pathology Research Institute – Agricultural Research Center – Giza – Egypt, from 2003 – 2011.

3. Medical Representative: Memphis Company for Pharmaceuticals and Chemicals, Cairo, Egypt, from 1998 – 2001.

Major Research Experience:

1. Isolation, characterization and identification of bacteriophages.

2. Isolation and identification of bacterial plant pathogens.

3. Isolation, identification and study of actinomycetes.
4. Use of chitosan to control plant pathogens.
5. Use of gamma radiation to control plant pathogens
6. Investigate the effect of oils and plant extracts on bacterial plant pathogens.
7. Investigate the effect of plant straw as bio-fertilizers and anti-microbial agents.
8. Use of the RAPD-PCR technique to fingerprint of bacteria.
9. Study the effect of bio-agent against plant pathogens under greenhouse and field conditions.
10. Use of plant wastes as antimicrobial and fertilizers substances.

Publications:

1. **Moussa, Z**.; El-Hersh, M.S. and El-Khateeb, A.Y. (2017): Induction of Potato Resistance Against Bacterial Wilt Disease Using Saccharomyces cerevisiae, Biotechnology, 16, 2: 57-68.
2. H. Abd El-Ghany, **Z. Moussa**, E.A. Salem and A.F. Abd El-Rahman (2017): Management of Potato Soft Rot by Gamma Irradiation. Arab Journal of Nuclear Science and Applications, 50, 3: 159 – 173.
3. Ezzat, A.S. and **Moussa, Z.** (2016): Investigating the effect of some elicitors on brown rot disease and tuber yield of potato (*solanum tuberosum* l.). Journal of Productivity and Development, 21 (1), 67 – 96
4. A.F. Abd El- Rahman, H. Abd El- Ghany, **Z. Moussa** and Hanan A. Shaheen, (2015): Use of Chitosan to Control Crown Gall Disease. Plant Pathology Journal, 14: 130-135.

5. Salem, E.A and **Moussa, Z.** (2014): Improvement shelf-life extension of apple by prestorage thermal treatment, $CaCl_2$ and gamma irradiation. Arab Journal of Nuclear Science and Applications, 47, 1: 181-188.

6. Salem, E.A and **Moussa, Z.** (2014): Extending the shelf-life of pear fruits by using gamma irradiation. Arab Journal of Nuclear Science and Applications, 47, 1:231-238.

7. El-Fallal**,** A.A. and **Moussa, Z.** (2008): Prospects for biocontrol of brown rot disease of potato *in vitro* and under greenhouse conditions. Plant Pathololgy Journal 7, 1: 54 – 64.

8. **Moussa, Z.** (2006): Studies on biological control of brown rot disease of potato. Ph.D. Thesis, Botany Department, Faculty of Science at Dameitta, Mansoura University, Egypt.

9. El-Didamony; G.; Ismail, A.E.A.; Sadik, A.S.; Sarhan, M.M. and **Moussa, Z.** (2004): Use of the RAPD-PCR technique to fingerprint of *Ralstonia solanacearum* and its phages. Egyptian Journal of Microbiology. 40, 51 – 64.

10. El-Didamony, G.; Ismail, A.E.A.; Sarhan, M.M. and **Moussa, Z.** (2003): Morphology and host range of phages active against *Ralstonia solanacearum* caused brown rot disease of potato in Egypt. Egyptian Journal of Biotechnology. 13: 114 – 129.

11. **Moussa, Z.** (2003): Some Genetic studies on *Ralstonia solanacerum* causing brown rot disease of potato. M.Sc. Thesis, Botany Department, Faculty of Science, Zagazig University, Egypt.

Books:

1- **Moussa, Z. (2010)**: Biological Control of Brown Rot Disease of Potato by using Bacteriophages, Actinomycetes, Essential Oils and

Basidomycetes, VDM Publishing House Ltd, ISBN 978-3-639-24636-0.

Conferences:

1. International Conference on "Advanced Technologies and Their Application in Agriculture", 27 - 29 March 2017, National Research Center, Cairo, Egypt.
2. The Thirteenth Congress of Phytopathology, 10 – 11 May 2016, Management of Plant Diseases for Sustainable Agricultural Development, Giza, Egypt, Organize by The Egyptian Phytopathological Society.
3. BioVision Alexandria 2106 conference, New Life Science: The Road Ahead. Alexandria, Egypt, 12 – 14 April 2016
4. Symposium of future of Magnetic agriculture in Egypt. 30th April 2014, National Research Centre, Giza, Egypt.
5. Conference of water security, challenges and solutions, 29th April 2014, National Research Center, Giza, Egypt
6. The 12th Conference of Agricultural Development Researches. Faculty of Agriculture, Ain Shams University, Egypt, 24 – 27 March 2014.
7. The Third International Conference on Biological and Environmental science, 20 – 24 march 2012 Mansoura and Hurghada, Egypt.
8. The second International Workshop on Industrial Biotechnology, 20 – 21 July 2011, Conference Center, Cairo University, Cairo, Egypt, Organized by Arab Biotechnology Association.
9. The Twelfth Congress of Phytopathology, 3 – 4 May 2011, Giza, Egypt, Organize by The Egyptian Phytopathological Society.

10. The Second International Conference for Application of Biotechnology (ICAB- 2009), 17 – 18 October 2009, MSA University, 6 October City, 6 October Governorate, Egypt. **Speaker "Moussa, Z**.; Mansour, F. A.; Shabana, Y. M.; and Ismail, A. E.A: Isolation, Identification and use of *Streptomyces* in control of brown root disease of potato**",** Abstract Book, p. 45.

11. Eighteenth Evergreen international Phage Biology Meeting (Phage Around the World), Olympia, Washington, 9 – 14 August 2009, Shared by **Poster "Zeiad Moussa**, Gamal El-Didamony, and Adel A.A. Ismail: Growth, chemical and physical characterization of three phages active against avirulent strain of *Ralstonia* solanacearum"

12. The First International Conference for Application of Biotechnology (ICAB- 2008), 18th – 19th October 2008, MSA University, 6 October City, 6 October Governorate, Egypt. Shared by **Poster "Moussa, Z**.; Mansour, F. A.; Shabana, Y. M.; and Ismail, A. E.A: Use of Phage Cocktail Isolated from Egyptian Soil to Control Brown Rot disease of Potato**",** Abstract Book, p.48.

13. Phage Biology, Ecology and Therapy Meeting, Eliava Institute, Tbilisi, Georgia. June 12-15, 2008. Shared by **Poster "Moussa, Z**.; Mansour, F. A.; Shabana, Y. M.; and Ismail, A. E.A.: Use of phage cocktail isolated from Egyptian soil to control brown rot disease of potato". (Abstract Book, p.65).

14. The Second International Conference of Virology "Emerging and Exotic Viral Infection, Challenging Threats of Human, Animal and Plant Health" 5th – 6th April, 2008.Gza, Egypt. Organized by Egyptian Society of Virology.

15. Research, Development and Innovation: Biotechnology in Arab World Forum. 3rd – 5th March 2008, Amman, Jordan. Organized by Arab Science

and Technology Foundation. **Main Speaker, Moussa, Z.;** Mansour, F. A.; Shabana, Y. M.; and Ismail, Adel E.A.: "Use of Phage Cocktail to Control Brown Rot Disease of Potato, (Abstract Book, p.91).

16. Eleventh Congress of Phytopathology, 27 – 28 November 2007, Giza, Egypt. Organized by The Egyptian Phytopathological Society.

17. Twelfth Conference on Microbiology, 18 – 20 March 2007. Organized by The Egyptian Society of Applied Microbiology. Giza, Egypt

18. Second Mansoura University Conference for Marketing Researches. Mansoura, Egypt 5 – 6 December 2006, **Main Speaker**, Mansour, F.A. and **Moussa, Z.** presentation title "Phage Therapy", Abstract Book, p.58.

Projects:

1. **Principal investigator**: Evaluation the effectiveness of pesticides that used for control of vegetable and fruits in **El-Gharbia Governorate** Egypt 2014, 2016 and 2017.

2. **Investigator**: Evaluation the effectiveness of pesticides that used for control of vegetable and fruits in **El-Behera Governorate** Egypt 2014, 2016 and 2017.

Supervisor of Thesis:

1. Mona Elsayed Mohammad: Biological control of brown rot disease of potato using bacteriophages. Master Thesis. Botany Department, Faculty of Science, Mansura University, Egypt. February 2012 – till now.

2. Nehal El-Saaid: Isolation and Identification of bacterial plant pathogens infecting important crops in Egypt. Master Thesis. Plant Pathology

Department, Faculty of Agriculture, Kafr El-Shekh University, Egypt. March 2016 – till now.

3. Marwa Nabih: Management of bacterial plant pathogens infecting important crops in Egypt. Master Thesis. Plant Pathology Department, Faculty of Agriculture, Kafr El-Shekh University, Egypt. March 2016 – till now.

Lectures and Guidance:

1- The Most Important Bacterial Plant Diseases and The Ways of Management of These Diseases. Tag El-Ezz Agricultural Research Station Dakahlia, Egypt, 14 May 2017

2- *Xylella fastidiosa:* A Danger Threats Worldwide Agriculture. Tag El-Ezz Agricultural Research Station Dakahlia, Egypt, 23 August 2017.

3- The Most Important Bacterial Plant Diseases That Infect Different Crops. Gemeza Agricultural Research Station. Gharbia Governorate. 8 December 2013.

Training courses and Workshops

1. Preventing Measures for the Introduction and Spread of *Xylella fastidiosa* – Olive Quick Decline Syndrome in NENA Countries" TCP/RAB/3601 Project – Cairo, 30 April – 4 May 2017

2. Recent Directions for Evaluation and Assessment of Toxicity of Herbicides, Fungicides, Bactericides, Nematicides, Central Lab. of Pesticides. Doki, Giza. 1 – 3 April 2014.

3. Writing Research Paper Workshop: Plant Pathology Research Institute, Giza, Egypt, By Prof. Dr. Saaid Omar, 16 September 2013.

4. Recognition and Deep Appreciation of the Important, Valuable Knowledge sharing and Contributions through Building Agriculture Expert Systems Workshop, Organized by MCIT Egypt ICT Trust Fund, Hold in Civilizing training Center, Gizira Cairo, Egypt 26 – 28 August 2013

5. Design and Analysis of Agricultural Experiments by SPSS Program. Central Laboratory for Design and Statistical Analysis Research (CLDSAR) – Agricultural Research Center (ARC), Giza, Egypt. 25 November 2011 – 6 December 2012.

6. Production of Biocides, National Research Center Giza, Egypt, 22 – 26 April 2012

7. Environment and Bio-Agriculture, National Research Center, Giza, Egypt, 2 – 3 April 2012.

8. Workshop in "References and data management using Endnote X5 , Zoology Department, Faculty of Science, Mansoura University, Egypt , 18 – 19 February 2012.

Colloquium:

1. Evaluation of Research Project of Management of Agricultural Knowledge by Development of New National Agricultural Expert Systems and Their Future Application. Ministry of Communications, Giza, Egypt, 9 September 2013.

2. GENYS biotechnology colloquium 5 December 2007 at Faculty of Agriculture, Cairo University, Egypt. **Speaker**, Presentation title "Phage therapy".

3. GENYS (German Egyptian Network of Young Scientists) Biotechnology Colloquium 22th October 2007 at Ain Shams University, Egypt.

Membership in Scientific Societies Groups and Networks:

1. - Manger of Ibn-Sina Forums and Network which includes about 8000 Egyptian, Arabic and foreign University Professors, Scholars, and Researchers. http://groups.google.com/group/ibn-sina/

2. Bacteriophage Ecology Group (BEG)

6. Arab Network for Biotechnology (ANB).

7. Agricultural Biotechnology Network in Africa (ABNETA)

8. The Egyptian Society of Applied Microbiology (ESAM).

9. Egyptian Phytopathological Society (EPS).

10. Egyptian Society of Virology (ESV).

11. Egyptian Society for Biological Control of Bests (ESPCP).

12. Arab Biotechnology Association.

Computer skills:

- Having ICDL certificate (Windows, Word, Excel, PowerPoint, Access, Information Technology, and Internet).
- Having a good experience in Photoshop.

Language:

- Good command of English "Writing, Reading and Speaking".
- Having TOEFL.ITP.

Other activities:

- Have many published essays in different fields in Arabic newspapers, magazines and e-sites.

References:

Upon request