CURRICULUM VITAE OF DR NIVIEN ALLAM NAFADY

Personal Information:

Name: Dr. Nivien Allam Nafady

Date and place of birth: 1980/ 10/5, Hanover, Germany

Citizenship: Egyptian

Permanent address: Botany and Microbiology Department, Faculty of Science, Assiut University -Egypt

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Languages spoken Arabic, English.

Current Position: Assistant Professor of Microbiology, Botany and Microbiology Department, Faculty of Science, Assiut University -Egypt

Qualifications:

PhD (Microbiology) **January 2012**

Philosophy doctorate major Microbiology, Mycology (Biodiversity of arbuscular mycorrhizal fungi in Assiut and their application in faba bean plants cultivated in Zn-polluted soil), from Faculty of Science, Assiut University, Assiut, Egypt.

MSc (Microbiology) **July 2008**

Master's Degree (Ecological, physiological an taxonomical studies on the genus Fusarium in Egypt) from Faculty of Science, Assiut University, Assiut, Egypt.

BSC (Botany) **May 2001**

B.Sc. Degree in science (Botany) from Faculty of Science, Assiut University, Assiut, Egypt.

Employment History:

Associate Professor — **February 2017**

Department of Botany and Microbiology, Faculty of Science, Assiut University, Assiut, Egypt.

Lecturer — **January 2012 - January 2017**

Department of Botany and Microbiology, Faculty of Science, Assiut University, Assiut, Egypt.

Teaching Assistant — **September 2008 - December 2011**

Department of Botany and Microbiology, Faculty of Science, Assiut University, Assiut, Egypt.

Demonstrator — **December 2001- August 2007**

Department of Botany and Microbiology, Faculty of Science, Assiut University, Assiut, Egypt.

Workshops attended:

1- March 2005, High extensive course in Electron Microscopy (Techniques & Interpretations) at the Electron Microscope Unit – Assiut University – Egypt.

2- October 2008, attended a workshop on "Electrical Separation of Protein" at Central laboratory of Genetic Engineering, Faculty of Science, Sohag University.

3- November 2009, attended a workshop on "PCR Principals and Applications" at the Molecular Biology Research Unit of Assiut University.

4- March 2010, attended a workshop organized by the Assiut University Mycological Center (AUMC) under the title: I- Identification of Fungi by Morphological and Molecular biology Techniques, II- Conservation of Fungi.

5- May 2010, attended a workshop on "From Gene to Protein" at the Molecular Biology Research Unit of Assiut University.

6- April 2012, attended a workshop on "HPLC and GC-MS", at Pharmaceutical Services Center, Faculty of Pharmacy, Assiut University.

7- December 2012, attended a workshop on "Gene Transformation in Plant and Bacteria", held at Genetic Engineering and Biotechnology Research Institute (GEBRI), Sadat City, Menoufyia University, Egypt.

8- June 2014, attended a workshop on "Mycotoxins: Problems, Detection, and Control" at Botany and Microbiology Department, Faculty of Science, Al-Azhar University (Assiut), Egypt.

9- March 2015, attended a workshop on "Training Course of Electron Microscopy (Techniques and interpretation of Biological Materials)" at the Electron Microscope Unit – Assiut University – Egypt.

10- April 2015, attended a workshop on "Application of Bioinformatics in Molecular Biology" at the Molecular Biology Research Unit of Assiut University, Egypt.

11- April 2016, attended a workshop on "Gene Cloning (Recombinant DNA Technology "at the Molecular Biology Research Unit of Assiut University, Egypt.

12- October 2016, attended a workshop on "Data Bases for Fungal Conservation" organized by Dr. David W. Minter, President of ISFC & EMA, at Botany Department, Faculty of Science, Suez Canal University, Ismailia, Egpyt.

13- March 2018, attended a workshop on "Modern Approaches for Rapid Analysis and Detection of Hepatitis Viruses" at Botany & Microbiology Department, Faculty of Science, Al-Azhar University, Assiut, Egypt.

14- November 2018, attended a workshop on "Medical Fungi" at Assiut University Moubasher Mycological Center (AUMMC), Egypt.

Fields of Interest:

1- Isolation and identification of fungi and arbuscular mycorrhizal fungi.
2- Fungal physiology.
3- Bio-fertilizers.
4- Mycoremediation.
5- Plant fungi symbiotic relationship.
6- Molecular biology.
7- Green synthesis of metal nanoparticles.
8- Electron microscopy techniques.

Membership in Scientific Committees:

1- Egyptian Association Plant.
2- The Arab Society for Fungal Conservation in Egypt.
3- The Society of Basic and Applied Mycology.

Supervision of Research Students:

PhD Students

- **Mohamed Ahmed El-Sharouny** **Degree awarded, 2017**
  Bioactivity of endophytic and leaf surfaces fungi and their natural products against *Alterinaria solani* causing early blight disease of tomato plant in Upper Egypt.
- **Ghada Abd-Elmonsef Mahmoud** **Degree awarded, 2017**
  Isolation and characterization of microorganisms producing vitamins.
- **Omima Abd-Elmonsef Mahmoud** **Degree awarded, 2017**
  Compost efficiency in remediation of soils contaminated with certain heavy metals.

M.Sc. Students

- **David Mamdouh Khalaf** **Degree awarded, 2012**
  Interactive effect of soil alkalinity with rhizobia and mycorrhizae on metabolic activities of faba bean and cowpea plants.
- **Samer Ahmed Khalaf** **Degree awarded, 2019**
  Arbuscular mycorrhizae as biofertilizers for cereal crops.
- **Ahmed Mokhatar Aly** **In progress**
  Studies on microbial deterioration of paints**.**

Research Publications: **H index = 10 Citation No. = 417**

1- Samar Omar Abdullah Rabah, Allam nafady, Salah H Afifi and **Nivien Allam** (2010): **Possible protective mechanism(s) of natural and synthetic antioxidants against mycosis and mycotoxicosis in Albino rats. I. Growth rate and intestinal light and electron microscopic changes**, *Egyptian Journal of Comparative Pathology & Clinical Pathology, 23(2), 66-90.*

2- Sawsan A. Abd-Ellatif, Abdel Rahman R.A., Mazen M.B.H., El-Enany A.E. and **Nivien Allam** (2012): **Biotechnological Aspects for VAM Aseptic Mass Production.** *World Applied Sciences17 (1): 20-28.* **(IF 0.47).**

3- Sobhy I.I. A., Mady A. I., Nemmat A. H., **Nivien Allam** (2012): **Fusaria and other fungi taxa associated with rhizosphere and rhizoplane of lentil and sesame at different growth stages.** *Acta Mycologica* 47(1):35-48.

4- Mady A. I., Sobhy I.I. A., Nemmat A. H., **Nivien Allam** (2013): **Contribution to physiological and biochemical diagnostics of *Fusarium* taxa commonly isolated in Egypt.** *Czech Mycology 65 (1): 133-150.*

5- Elgharably A., **Nivien A. Nafady** (2013): **Effect of arbuscular mycorrrhiza on growth and metal uptake of basil and mint plants in wastewater irrigated soil**. *Egyptian Journal of Soil Science.53: 613-625.*

6- Abd-Alla M.H, El-Enany A.E, **Nivien A. Nafady**, Khalaf D.M, Morsy F.M (2014): **Synergistic interaction of *Rhizobium leguminosarum* bv. viciae and arbuscular mycorrhizal fungi as a plant growth promoting biofertilizers for faba bean (*Vicia faba* L.) in alkaline soil.** *Microbiological Research 169:49-58.* **(IF 2.77).**

7- Morsy F.M, **Nivien A. Nafady**, Abd-Alla M.H., Abd Elhady D. (2014): **Green synthesis of silver nanoparticles by water soluble fraction of the extracellular polysaccharides/matrix of the cyanobacterium *Nostoc Commune* and its application as a potent fungal surface sterilizing agent of seed crops.** *Universal Journal of Microbiology Research. 2(2): 36-43.*

8- Naeima M. H. Yousef, **Nivien A. Nafady** (2014): **Combining biological silver nanoparticles with antiseptic agent and their antimicrobial activity.** *International Journal of pure and applied bioscience. 2 (2): 39-47.*

9- Sobhy I. I. Abdel-Hafez, Mady A. Ismail, Nemmat A. Hussein, **Nivien A.** (2014): ***Fusarium* species and other fungi associated with some seeds and grains in Egypt, with 2 newly recorded *Fusarium* species**. *Journal of Biology and Earth Sciences. 4 (2): 120-129.*

10- **Nivien A. Nafady**, Morsy, F. M. Bagy M. M. K., Abd-Alla M. H., and Mahmoud, G. A. E. (2014): **Fungal diversity in *Zea mays* L. plants and the ability of some isolated *Aspergillus terreus* isolates to produce riboflavin.** *Assiut Univ. J. of Botany. 43(2), 1-25.*

11- Safaa M. Ali, Naeima M. H. Yousef, and **Nivien A. Nafady** (2015): **Application of Biosynthesized Silver Nanoparticles for the Control of Land Snail *Eobania vermiculata* and Some Plant Pathogenic Fungi.** *Journal of Nanomaterials. 2015(ID: 218904): 1-10.* **(IF 2.207)**.

12- **Nivien A. Nafady**, Bagy M. M. K., Abd-Alla M. H., Morsy, F. M. and Mahmoud, G. A. E. (2015): **Improvement of medium components for high riboflavin production by *Aspergillus terreus* using response surface methodology**. *Rendiconti Lincei Scienze Fisiche e Naturali , 26(3):335-344.* **(IF 0.986)**.

13- Mazen M.B., Ahmed M.M.M., **Nivien A. Nafady**, Omaima Abdel Monsef (2015): **The impact of soil contaminated with heavy metals on soil microbial diversity of industrial area near Assiut city, Egypt**. *Assiut Univ. J. of Botany 44(2): 19:36.*

14- Fatma A Farghaly, **Nivien A. Nafady** (2015): **Green synthesis of silver nanoparticles using leaf extract of *Rosmarinus officinalis* and its effect on Tomato and Wheat Plants.** *Journal of Agricultural Science 7 (11), 277:287.*

15- Abd-Alla M.H., **Nivien A. Nafady**, Khalafa D.M. (2016): **Assessment of silver nanoparticles contamination on faba bean-*Rhizobium leguminosarum* bv.*viciae-Glomus aggregatum* symbiosis: implications for induction of autophagy process in root nodule.** *Agriculture, Ecosystem and Environment 218:163-177.* **(IF 4.099)**.

16- Sobhy I. I. Abdel-Hafez, **Nivien A. Nafady**, Ismail R. Abdel-Rahim, Abeer M. Shaltout, José-Antonio Daròs and Mohamed A. Mohamed (2016): **Biogenesis and optimisation of silver nanoparticles by the endophytic**

fungus *Cladosporium sphaerospermum*. *International Journal of Nanomaterials and Chemistry 2, No. 1, 11-19.*

17- Abd-Alla M. H., Bagy M. M. K., **Nivien A. Nafady**, Morsy, F. M. and Mahmoud, G. A. E. (2016): **Activation of riboflavin production by *Bacillus subtilis* (KU559874) and *Bacillus tequilensis* (KU559876)**. *EC Bacteriology and Virology Research 2.4 (2016): 131-150.*

18- Sobhy I. I. Abdel-Hafez, **Nivien A. Nafady**, Ismail R. Abdel-Rahim, Abeer M. Shaltout, José Antonio Darós, Mohamed A. Mohamed (2016): **Assessment of protein silver nanoparticles toxicity against pathogenic *Alternaria solani***. *3 Biotch 6(2):1:12.* **(IF 1.496).**

19- Bagy M. M. K., Abd-Alla M. H., **Nivien A. Nafady**, Morsy, F. M., and Mahmoud, G. A. E. (2016): **Bioconversion of plant wastes to β-carotene by *Rhodotorula glutinis* KU550702.** *European Journal of Biological Research 6(4):226-241.*

20- **Nivien A. Nafady**, Bagy M. M. K., Abd-Alla M. H., Morsy, F. M. and Mahmoud, G. A. E. (2016): **Bio-enrichment of β-carotene production by *Fusarium camptoceras* grown on sugarcane molasses using statistical approach.** *International Journal of Advanced Biotechnology and Research 7(3): 1186-1203* **(IF 2.41).**

21- **Nivien A. Nafady**, Abdel-Azeem AM and Salem FM (2016): **A checklist of Egyptian fungi: II. Glomeromycota.** *Microbial Biosystems* 1(1): 40–49.

22- Aml I. Mekkawy, Mohamed AEl-Mokhtar, **Nivien A. Nafady**, Naeima Yousef, Mostafa A. Hamad, Sohair M. El-Shanawany, Ehsan HIbrahim, Mahmoud Elsabahy (2017): **In vitro and in vivo evaluation of biologically synthesized silver nanoparticles for topical applications: effect of surface coating and loading into hydrogels**. *International Journal of Nanomedicine* 12: 759–777. **(IF 4.3)**

23- Sobhy I. I. Abdel-Hafez, **Nivien A. Nafady**, Ismail R. Abdel-Rahim, Abeer M. Shaltout, José-Antonio Daròs and Mohamed A. Mohamed (2017): **Biosynthesis of silver nanoparticles using the compound curvularin isolated from the endophytic fungus *Epicoccum nigrum*: characterization**

and antifungal activity. *Journal of Pharmaceutical and Applied Chemistry* 3 (2): 135-146.

24- Mohamed M. Ahmed, Mohamed B. Mazen, **Nivien A. Nafady** and Omaima Abdel Monsef (2017): **Bioavailability of cadmium and nickel to *Daucus carota* L. and *Corchorus olitorius* L. treated by compost and microorganisms.** *Soil and Environment 36(1):* 01-12.

25- **Nivien A. Nafady**, Mohamed B. Mazen, Mohamed M. Ahmed and Omaima Abdel Monsef (2017): **Transfer of nickel from polluted soil to *Pisum sativum* L. and *Raphanus sativus* L. under composted green amendment and native soil microbes.** *Agriculture (Pol'nohospodárstvo*) *63(2):52-66.*

26- Abdelghafar M. Abu-Elsaoud, **Nivien A. Nafady** and Ahmed M. Abdel-Azeem (2017): **Arbuscular mycorrhizal strategy contributes for zinc mycoremediation and diminishes zinc translocation to shoots and grains**. *PLOS ONE* 12(11): e0188220. **(IF 2.806 Q1).**

27- Mohamed Hemida Abd-Alla, Shymaa R. Bashandy, **Nivien A. Nafady** and Amany A. Hassan (2018): **Enhancement of exopolysaccharide production by *Stenotrophomonas maltophilia* and *Brevibacillus parabrevis* isolated from root nodules of *Cicer arietinum* L. and *Vigna unguiculata* L. (Walp.) plants.** *Rendiconti Lincei, Scienze Fisiche e Naturali* 1-13. **(IF 0.986)**.

28- Sedky H.A. Hassan, Mostafa Koutb, **Nivien A. Nafady**, Elhagag Ahmed Hassan (2018): **Potentiality of *Neopestalotiopsis clavispora* ASU1 in biosorption of cadmium and zinc.** *Chemosphere* 202: 750-756. **(IF 4.208 Q1).**

29- Ismail R. Abdel-Rahim, **Nivien A. Nafady**, Magdy M. K. Bagy, Mohamed H. Abd-Alla and Ahmad M. Abd-Alkader (2018): **Fungi-induced paint deterioration and air contamination in the Assiut University hospital, Egypt.** *Indoor and Built Environment* 1-17**. (IF 1.716 Q3)**.

30- **Nivien A. Nafady**, Elgharably A. (2018): **Mycorrhizal symbiosis and phosphorus fertilization effects on *Zea mays* growth and heavy metals uptake.** *International Journal of phytoremediation* 20 (9): 869–875. **(IF 1.77 Q2).**

31- Saad A.M. Alamri, Mohamed Hashem, **Nivien A. Nafady**, Mahmoud A. Sayed, Ali M. Alshehri, and Gamal A. El-Shaboury (2018): **Controllable biogenic synthesis of intracellular silver/silver chloride nanoparticles by *Meyerozyma guilliermondii* KX008616.** *Journal of Microbiololgy and Biotechnology, 28(6), 917–930.* **(IF 1.650).**

32- **Nivien A. Nafady**, Elhagag Ahmed Hassan⁎, Mohamed Hemida Abd-Alla, Magdy Mohamed Khalil Bagy (2018): **Effectiveness of eco-friendly arbuscular mycorrhizal fungi biofertilizer and bacterial feather hydrolysate in promoting growth of *Vicia faba* in sandy soil.** *Biocatalysis and Agricultural Biotechnology (16), 140-147.* **(IF 0.887).**

33- Saad AM Alamri, Mohamed Hashem, Yasser S Mostafa, **Nivien A Nafady**, Kamal AM Abo-Elyousr (2019): **Biological control of root rot in lettuce caused by *Exserohilum rostratum* and *Fusarium oxysporu*m via induction of the defense mechanism.** *Biological Control (128), 76-84.* **(IF 2.1 Q1).**

34- Bagy, Hadeel MM Khalil, Elhagag Ahmed Hassan, **Nivien Allam Nafady**, and Mona FA Dawood (2019): **Efficacy of arbuscular mycorrhizal fungi and endophytic strain *Epicoccum nigrum* ASU11 as biocontrol agents against blackleg disease of potato caused by bacterial strain *Pectobacterium carotovora* subsp. *atrosepticum* PHY7**. *Biological Control* 134: 103-113. **(Impact factor 2.607 Q1).**

35- Abdel-Azeem, A.M. and **Nivien Allam Nafady** (2019): **New records on the genus *Tomophagus* and *Battarrea* for mycobiota of Egypt.** *Current Research in Environmental & Applied Mycology*, *9*(1), pp.77-84.

36- Abd-Alla, Mohamed Hemida, **Nivien A. Nafady**, Shymaa R. Bashandy, and Amany A. Hassan (2019): **Mitigation of effect of salt stress on the nodulation, nitrogen fixation and growth of chickpea (*Cicer arietinum* L.) by triple microbial inoculation**. *Rhizosphere* 10: 100148.

37- **Nivien Allam Nafady**, Mohamed Hashem, Elhagag A. Hassan, Hoda AM Ahmed, and Saad A. Alamri (2019): **The combined effect of arbuscular**

mycorrhizae and plant-growth-promoting yeast improves sunflower defense against *Macrophomina phaseolina* diseases. *Biological Control* 138: 104049. **(Impact factor 2.607 Q1).**

⇨ Books:

1- Mady A. Ismail, Sobhy I. I. Abdel-Hafez, Nemmat A. Hussein, Nivien A. Abdel-Hameed " **Contribution to the Genus *Fusarium* in Egypt with Dichotomous Keys for Identification of Species" . 2015.** TMKARPIŃSKI PUBLISHER.

2- **Chapter: "Biodiversity of the Genus *Aspergillus* in Different Habitats"** Abdel-Azeem A.M., Salem F.M., Abdel-Azeem M.A., Nafady N.A., Mohesien M.T., Soliman E.A. **2016.** In book: **New and future developments in microbial biotechnology and bioengineering. *Aspergillus* system properties and applications.** ELSEVIER PUBLISHER

3- **Chapter:** Abdel-Azeem, Ahmed M., Mohamed A. Abdel-Azeem, Amira G. Darwish, **Nivien A. Nafady**, and Nancy A. Ibrahim **2019. *Fusarium*: Biodiversity, Ecological Significances, and Industrial Applications.** In Recent Advancement in White Biotechnology Through Fungi, pp. 201-261. Springer, Cham.

4- **Chapter:** Mohamed A. Mohamed **and Nivien A. Nafady 2019. Nanoparticle-Mediated *Chaetomium*, Unique Multifunctional Bullets: What Do We Need for Real Applications in Agriculture?** In book: Recent Developments on Genus *Chaetomium*. Publisher: Springer Nature Switzerland AG.