

Curriculum Vitae

Personal Data

Name: Samira Rizk Mansour

Date of Birth: April 10, 1960.

Nationality: Egyptian.



Academic Qualifications

1981 B.Sc. in Botany,
Faculty of science, Suez Canal University,
Place: Ismailia, Egypt.
Subject: Botany.
Grade: Excellent with Honor Degree.

1986 M.Sc. in Microbiology,
Faculty of Science, Suez Canal University,
Place: Ismailia, Egypt.
Subject: Microbiology.
Title: Isolation and characterization of actinomycetes contaminated drinking water,
Ismailia, Egypt.

1991 Ph.D. in Microbiology,
Faculty of Science, Suez Canal University, in cooperation with
Harvard University,
Place: Harvard Forest, MA.01366, USA and Ismailia, Egypt.
Subject: Microbiology
Specialty: **Nitrogen fixation of non-legumes.**
Title: Isolation and characterization of *Frankia* strains, isolated from root nodules of
Casuarina species grown in Egypt.

Stages of University Education

B.Sc. Degree

1981

Botany Dept.,
Faculty of science, Suez Canal University,
Ismailia, Egypt.

M.Sc. Degree

1986

Specialization: Microbiology
Botany Dept.,
Faculty of Science, Suez Canal University,

Ismailia, Egypt.

Title: Isolation and characterization of actinomycetes contaminated drinking water, Ismailia, Egypt.

Ph.D

Specialization: Microbiology

Botany Dept.,

Faculty of Science, Suez Canal University, in cooperation with

Harvard University,

Place: Harvard Forest, MA. 01366, USA and Ismailia, Egypt.

Specialty: **Nitrogen fixation with non-legumes.**

Title: Isolation and characterization of *Frankia* strains, isolated from root nodules of *Casuarina* species grown in Egypt.

Professional Background

Oct., 1981 - July, 1986

Instructor in Botany

Suez Canal University, Ismailia.

Aug., 1989 - Jan., 1991

Assistant Lecturer

Suez Canal University, Ismailia.

Feb., 1991 - June 1997

Lecturer

Suez Canal University, Ismailia.

July 1997 – December 2003

Assistant Professor

Suez Canal University, Ismailia.

December 2003 – up till now

Professor

Suez Canal University, Ismailia.

Previous periods of Study and Research abroad

Aug., 1988 - Oct., 1988

Forestry and Environmental Studies Dept., Yale University, CT, USA.

Training course on Biology of *Frankia* as nitrogen fixing organisms and techniques for isolation and identification.

Financed by: Harvard University, Harvard Forest, USA.

Scientific Mentor: Dr. Dwight Baker, Dept., of Forestry and Environmental Studies, Yale University, CT, USA.

Sept., 1992 - Dec., 1992

Botany Dept., Tennessee University, Knoxville, USA.

Training course in Molecular Biology and Tissue culture for Nitrogen Fixing trees.

Financed by: UNESCO

Scientific Mentor: Dr. Beth Mullin, College of Liberal Arts,
Botany Dept., 437 Hessler Biology Building, Knoxville, The University of
Tennessee, 37996-1100, USA.

Training courses and workshops

November 1990

Training course in: Biology of nitrogen fixation.
Mircen Unit, Ain Shams University, Cairo, Egypt.

May 1991

Training course on Forestry Biotechnology.
IDA Institute, Venezuela.

September 1992

Training course in: Molecular Biology and Tissue culture for Nitrogen Fixing trees.

Knoxville, The University of Tennessee, 3 7996-1 ~00, USA.

May 1998

Training course in: Application of Genetic Engineering in Medicine and Agriculture.

Suez Canal University, Ismailia, Egypt.

February 2000

Training course in: Principle of Genetic Engineering.

Institute of Graduates Studies and Research, Alexandria University, Egypt.

April 2001

Training course in: Genetic Engineering

Institute of Graduates 'Studies and Research, Alexandria University, Egypt.

Participation in Scientific Projects

1991 - 1992

Casuarina Project

Funded by: Suez Canal University

Title: A Promising Tissue Culture Technique for Agroforestry and Afforestation in Egypt.

1992-1994

Agroforestry Project

Funded by: National Science Foundation “NSF” (USA).

In cooperation with Yale University.

Title: Selection Trails for Effective N₂-fixing *Casuarina* - *Frankia* combinations in Egypt.

1994-1995

Anti-microbial producing organisms

Funded by: PanLab Company (USA).

Title: Screening for anti-microbial producing microorganisms in different Egyptian soil types.

1994-1996

Citric acid Project

Funded by: National Agriculture Research Project “NARP”, Cooperation between USA and Egypt.

Title: Utilization of Industrial wastes for of Citric Acid Production.

1996- 2000

Regional *Casuarina-Frankia* Project

Funded by: OROSTOM (France) in cooperation with Egyptian Ministry of Agriculture.

Title: Regional Project for Pilot Unit of Production of *Casuarina* seedling Inoculated with *Frankia* strains.

International Conferences:

1989: Sept., **Frankia Meeting, CT, USA.**

1990: April, *Frankia* Meeting, Petersham, Harvard Forest
Harvard University, USA.

1991: Sept.24
8th International Conference of *Frankia* and Actinorhizal Plants,
Lyon, France.

1993: Sept. 6-10
6th International Symposium on Nitrogen Fixation with Non-legumes, Ismailia,
Egypt.

1994: Sept., 10-14
French-Egyptian Seminar on Nitrogen fixation with Cereal,
Cairo, Egypt.

1995: March 20-23

First International Scientific Conference,
Al-Azhar University, Cairo, Egypt.

1996: July 14-18

5th International Society of Root Research Symposium,
South Carolina, USA.

1999: May 23-26

8th Nitrogen Fixation with Non-Legumes Symposium, Am Shams University,
Cairo, Egypt.

2001: June 17-21

12th International Meeting on *Frankia* and Actinorrhizal Plants,
Carry-Le-Rouet, France.

List of Publications:

Dewedar, A., Abed Monem, M.H., Hussien, M. and **Mansour, S.R.** 1989. Total count of microorganisms contaminating water supply system of Ismailia city, Egypt. **The Egypt. Soc. of Parasitology** 20 (2): 753.

Dewedar, A., Abed Monem, M.H., Hussien, M. and **Mansour, S.R.** 1989. Taxonomic studies on atinomycetes contaminating water supply system of Ismailia city, Egypt. **The Egypt. Soc. of Parasitology.**

Mansour, S.R., Dewedar, A., Torrey, JO. 1990. Isolation, culture and behavior of Frankia strain HFPCgI4 from root nodules of *Casuarina glauca*. **Botanical Gazeffe** 151: 490

Dewedar, A. and **Mansour, S.R.** 1992. Infection events in the establishment of Casuarin-Frankia Symbiosis: Using spore inoculation. **Acta. Oecol.** 13: 379-386.

Mansour, S.R. and Torrey, 3.0. 1992. *Frankia* spores of strain HFPCgI4 as inoculum for seedlings of *Casuarina glauca*. **Can. J. Bot.** 69:1251.

Mansour, S.R., Dewedar, A. and Baker, D. 1994. Superior cultivar for high nitrogen fixation in Egypt. In: Hegazi, N.A., Fayez, M. and Monib, M. (Eds.), *Proceeding of the sixth International symposium on Nitrogen fixation with non-legumes*, Sept., 6-10, 1993, Ismailia, Egypt. The American Univ., Cairo Press, pp. 229.

Mansour, S.R. and Baker, D. 1994. Selection trials for effective N₂-fixing *Casuarina-Frankia* combinations in Egypt. **Soil Biol. Biochem.** 26(5): 655.

Mansour, S.R. 1994. Production of growth hormones in *Casuarina cunninghamiana* root nodules induced by *Frankia* strain HIFPCgI4, **Protoplasma** 183:126.

Mansour, S.R. 1996. Evaluation of N₂ fixating capability of *Acacia saligna* under field conditions. *International Society of root Research 5th symposium*, July 14-18, South Carolina USA, pp. 403.

Mansour, S.R., Zayed, A. and Dewedar, A. 1996. Performance of two *Casuarina* species inoculated with pure culture of *Fran/cia* strain under field conditions. **Egypt. J. Microbiol.** 31(2): 287.

Mansour, S.R. and El-Melegy, S. 1997. Production of growth hormones by *Frankia* strain HFPCgI4 in defined culture medium. *Egypt. J. Microbiol.* 32 (3): 423.

Mansour, S.R. 2000. Influence of nutrient supply and deficiency on sporulation and behavior of some *Frankia* strains in culture medium. *Proceeding of the Tenth*

Microbiology Conference, Cairo, Egypt. 11-14 Nov., pp. 129.

Mansour, S.R 2002. Does individual isolate of *Fran/cia* culture contain more than one strain. **Egypt. J. Microbiol.** 37(4): 323.

Mansour, S.R, Zayed, A. and Safwat, M. 2002. Field trial for measuring N₂ fixation efficiency of different inoculum treatments of *Casuarina* species using ¹⁵N-labelling method. **Egypt. J. Microbiol.** 37(4): 409.

Mansour, S.R. and Megahed, M.M. 2002. Interaction of soil and different *Fran/cia* strains on nodulation and mass production of three *Casuarina* species. **Egypt. J. Microbiol.** 37(4): 323.

Mansour, S.R. 2003. The occurrence and distribution of soil actinomycetes in Saint Catherine area, South Sinai, Egypt. **Pakist. J. Biol. Sci.** 6 (7):721.

Mansour, S.R 2003. Studies on the growth, culture behavior and infectivity of two *Frankia* strains UFECeI5 and LLR43 grown in medium containing antibiotic substances. **Pakist. J. Biol. Sci.** 6 (11): 963.

Mansour, S.R. 2003. Improving wood and biomass production of some *Casuarina* species through symbiotic association in Egypt. **NFT News** 6(1): 1.

Mansour, S.R, 2003. Survival of *Frankia* strains under different soil conditions. **Online J. Biol. Sci.** 3 (7): 618.

Zaki, A., **Mansour, S.R.**, El-Zawhary, Y. and Ismail, S. 2003. DNA-fingerprints and phylogenetic studies of some chitinolytic actinomycete isolates. **Biotechnology** 2(2): 131.

Mansour, S.R, Zayed, A. and Safwat, M. 2003. N₂-fixation efficiency of *Acacia saligna* inoculated with to Bradyrhizobium strains under field conditions (In Press).

Mansour, S.R and Zaki, A. 2003. Evaluation the diversity among *Frankia* isolated exist within single nodule of *Casuarina* plant. **A-Azhar Bulletin of Science** 14 (1):25-38.

Moustafa, A.A. and **Mansour, S.R.** 2003. Improving soil physical properties and its effect on *Acacia trolilis* seedlings growth under field conditions. **Asian J. of Plant Sci.** 2(11): 861.

Mansour, S.R and Ismail S. M., Chitinolytic activity of actinomycetes from Egyptian soil and their potential as biocontrol, *In: Biocontrol agents* (in press).

Mansour, S.R and Abed El-Rhiem L. 2006. The role of Gamma radiation on spore germination and infectivity of *Frankia* strains CeI523 and CcI6. (**Journal ,Vol. + Pages**).

Mansour S.R and Zean Alabdien D. A. 2006. Antioxidant defenses against activated oxygen in *Casuarina* nodules subjected to iron stress. 14th *Frankia* conference, Sweden.

Mansour, S.R, Zaghoul, M.S. and Taher, H.S (In Press). Accumulation of Poly- β -hydroxybutyrate (PHB) in Rhizobia Regulated by pH. The 2nd International Conference on The Role of Genetics and Biotechnology in Conservation of Natural Resources, Ismailia, Egypt, 9-10, July 2007.