Curriculum Vitae

Prof. Dr. Salah M. Mahmoud
Prof. Soil Microbiologist
Soil & Water Department
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Assiut, Egypt

EDUCATION :

Univ. of Assiut, Egypt; B.Sc. of Soil Science, June 1973.
Univ. of Assiut, Egypt; M.Sc. of Soil Feb, 1979.
Univ. of Maryland, U.S.A., Ph.D. Soil Microbiology, August 1986.

PROFESSIONAL EXPERIENCE:

1- Six months-practical training in Soybean Genetic and Nitrogen Fixation Lab. With Dr. L.D. Kuykendale: USDA Beltsville, Maryland, U.S.A.
2- Principal Investigator in linked research project between Agronomy Dept., Univ. of Maryland and Soil Dept. Assiut Univ. The title of the project was "Transfer of Hydrogen Uptake Gene (Hup) from *Rhizobium leguminosarum* to fast-growing, salt-tolerant *Rhizobium fredii*". The duration of the project was from Jan. 1986 to July 1989.
3- Attending the Scientific conference in Biotechnology for Health and Agriculture. Sponsored by National Academy of Science, U.S.A. June 6-9 1988.
4- Participation in Biological Nitrogen Fixation (BNF) Network Meeting by National Academy of Science; U.S.A.; for participants in Science and Technology Cooperation (PSTC) and Board on Science and Technology for International Development (BOSTID). This meeting was held in in July 27-28, 1989. in Ames, Iowa, U.S.A.
5- Attending the "Fourth National Congress on : Pollution Control of Agricultural Environment" . Held by Egyptian Soil Science Society (ESSS) in Cairo, Nov. 24-25, 1993.
6- Participation in the "Fifth National Congress on "Bio-Agriculture in Relation to Environment" Held by Egyptian Soil Science Society (ESSS) in Cairo, Nov. 20-21, 1995.
7- Attending the second international conference on: Soil solarization and Integrated Management of Soil borne Pests held in Aleppo, Syria 16-21 March, 1997.
8- Working as a research team member on Project entitled : Studies on efficiency improvement of bacterial inoculants used for increasing productivity of field crops in Upper Egypt, sponsored by: Regional Council of Research and Extension 1995 – 1997.
9- Attending the Regional Symposium on Agro-Technologies Based on Biological Nitrogen Fixation for Desert Agriculture, April 14-16,1998, El-Arish, North Sinai Govern orate, Egypt.

10- Participation in Minia 1st Conference for Agriculture and Environmental Science, March 25-28, 2002.

Graduate Student Advising :

1- Mahmoud M. El-Desouky (1991) (Ph.D. Program) Studies on some environmental factors affecting growth of *Rhizobium japonicum* and nodulation of soybean. Ph.D. Thesis, Fac. Of Agric. Assiut University.
2- Hany S. Sadiek (1994). Effect of Bacterial Inoculation and Intercropping on yield and Nitrogen content of some Forage Crops. Soil & Water Dept., Ph.D. Thesis, Faculty of Agric. Assiut University.
3- Hamdia M. El-Rewainy (1990). Studies on using of Azospirilla to improve the growth and yield of non-legume plants. Ph.D. Thesis, Faculty of Agric., Assiut University.
4- Hashem M. Mohmoud (M.Sc. program) 1997 –2001. Soil Microbiology.
5- Hashem M. Mohmoud (Ph.D. program) 2002 –2006. Soil Microbiology.
6- Ahmed M. Abd-El-Kaway (M.S.) 2006. Utilization of vinasse as A Soarce of Potassium for some crops grown in upper Egypt.
7- Magda R. Abdorabou (M.SC.) 2009. Soil Salarization and Inoculation with Sulphur Oxidizing Bacteria and their Effects on some Soil Properties.
8- Mohamed A. Youssef. (ph.D.) 2011. Synergistic Impact of Effective Miuoorganems and Organic Manures on growth and yield wheat and Majorem plants .
9- Haytham F. Ahmed (M.SC.) 2010 Characterization of Gluconacetobacter diazatrophicus isolated from sugarcane and sweet potato cultivated in upper Egypt .
10-Mahmoud A.M. Hassanein (M.SC.) 2014. Response of Faha Been grown on Tosks Soils to Nitrogen, phosphorus and organic fertilizers .
11-Mohamed H.A. Mohamed (M.SC.) 2015. Improrement of Nutrional statas of Rape and sunflower crops in El-Kharga (New Valley).
12-Mohamed Nufea (M.SC.) 2015 Present
13-Nafeesa M. Ibrahim (M.SC.) 2016- present)
14-Haytham F Ahmed (ph.D) 2017- present

List of Publication
Prof. Dr. Salah M. Mahmoud
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1- Ghoneim, M.F.; H.M. Eh-Gibaly, H.G. Hassanein and **S.M. Mahmoud**. 1980 . Effect of different subsurface irrigation – fertilization treatments on the growth and yield of wheat and peas growth on sandy calcareous soil. Assiut J. Agric. Sci. 11(2): 109 – 120.

2- El-Gibaly, M.H.; H.G. Hassanein, M.F. Ghoneim and **S.M. Mahmoud**. 1980. Influence of subsurface irrigation, phosphorus and iron fertilization on the elemental composition of wheat and peas. Assiut J. Agric. Sci. 11 (2): 121-133.

3- Hassanein, H.G.; M.F. Ghoneim, M.H. El-Gibaly and **S.M. Mahmoud**. 1980. Design, use and evaluation of a modified subsurface irrigation technique to grow wheat and peas in sandy calcareous soil. Assiut J. Agric. Sci. 11 (2) 95-107.

4- **Mahmoud, S.M**. and J.S. Angle, 1986 . Survival of fast-and slow-growing rhizobia in soil amended with soybean root exudates. 86th Annual Meeting of Amer. Soc. Microbial., Washington, D.C., March 23-28.

5- **Mahmoud, S.M**. and J.S. Angle, 1987 . Effect of soybean root exudates on Bradyrhziboium iaponicum. J. Plant Nutrition 10: 1255-1261.

6- **Mahmoud, S.M**. and J.S. Angle and L.D. Kuykendale, 1986 . Transfer of hydrogen uptake gene from *Rhizobium leguminosarum* to fast-growing, salt-tolerant *Rhizobium ferdii*. 1-Greenhouse experiment. Biotechnology for Health and Agriculture Conference. Washington, D.C., June 6-9 .

7- **Mahmoud, S.M**. and J.S. Angle and L.D. Kuykendale, 1989. Transfer of hydrogen uptake gene from *Rhizobium legminosarum* to fast-growing, salt tolerant *Rhizobium fredii*. II-field experiments. Network Meeting for PSTC and BOSTID Participants. Ames, Iowa, U.S.A. July 30 –Aug.3.

8- **Mahmoud, S.M.** and S.H. Mohamed, 1991. Effect of certain herbicides and insecticides on the growth of some *Rhizobium* species. Assiut J. Agric. Sci. 22 (3): 243-259.

9- **Mahmoud, S.M**., R.A. Dawood and K.A. Kheirallah, 1991. Effect of inoculation with bradyrhizobia and phosphorus fertilization at various growth stages on field grown soybean. Assiut J. Agric. Sci., 22 (5) : 55-69.

10- **Mahmoud, S.M**., K.A. Kheirallah and R.A. Dawood, 1992. Comparative studies on productivity and nodulation of soybean by slow- and fast-growing rhizobia. Assiut J. Agric. Sci., 23 (1): 127-140.

11- Badawy, F.H., **S.M. Mahmoud**, H.G. Hassanein and M.M. El-Desouky, 1991. Growth and survival of soybean rhizobia strains at sub optimal temperatures. Assiut J. Agric. Sci, 22 (5): 15-25.
12- Badawy, F.H., **S.M. Mahmoud**, H.G. Hassanein and M.M. El-Desouky, 1991. Response of three soybean cultivars to inoculation with six strains of *Bradyrhizobium japonicum.* Assiut J. Agric. Sci. 22 (5): 69-82.
13- Badawy, F.H., **S.M. Mahmoud**, H.G. Hassanein and M.M. El-Desouky, 1991. Effect of high temperatures on nodulation and growth of soybean plants. Assiut J. Agric. Sci. 22 (5): 27-38.
14- Badawy, F.H., **S.M. Mahmoud**, H.G. Hassanein and M.M. El-Desouky, 1992. Effect of planting dates and inoculation with some strains of bradyrhizobia on nodulation and growth of soybean plants. Assiut J. Agric. Sci., 23 (1): 141-152.
15- **Mahmoud, S.M**., F.H. Badawy, H.G. Hassanein and M.M. El-Desouky, 1994. Effect of inoculation and level of nitrogen fertilization on nodulation and yield of soybean. Assiut J. Agric. Sci. 25 (3): 191-198.
16- **Mahmoud, S.M**., F.H. Badawy, H.G. Hassanein and M.M. El-Desouky, 1994.Persistence of nine strains of soybean rhizobia introduced to Assiut soil for the successive growing season . Assiut J. Agric. Sci. 25 (3): 199-207.
17- El-Naggar, A.I. and **S.M. Mahmoud**, 1994. Effects of inoculation with certain Azospirillum strains nitrogen fertilization on Narcissus tazetta, L. under different soil texture. Assiut J. Agric. Sci. 25 (4): 135-151.
18- **Mahmoud, S.M**. and I.A. El-Far, 1994. Influence of irrigation regime and inoculation with rhizobia on the productivity of soybean. Assiut J. Agric. Sci. 25 (5): 109-117.
19- **Mahmoud, S.M**. 1995. Effect of inoculation of faba bean with four genetically marked strains of *Rhizobium leguminosarum* on nodulation nodule occupancy and yield. Assiut J. Agric. Sci. 26 (4): 73-83.
20- Badawy, F.H., **S.M. Mahmoud** and M.M. El-Desouky. 1995. Studies on the competitive ability of antibiotic resistant mutants of *Rhizobium leguminosarum* Bv. Vicea. Assiut J. Agric. Sci. 26 (4): 93-107.
21- **Mahmoud, S.M**., F.H. Badawy and M.M. El-Desouky, 1995. The symbiotic effectiveness of antibiotic resistant mutants of *Rhizobium leguminosarum* Bv. Vicea. Assiut J. Agric. Sci. 26 (4): 109-121.
22- Badawy, F.H., **S.M. Mahmoud**, M.A. Gameh and H.S. Sadiek, 1996. Effect on inoculation of pigeon pea, siratro and guar with *Bradyrhizobium* strains, nitrogen and phosphorus fertilization on: 1- Nodulation. Assiut J. Agric. Sci. 27 (1): 4-16.
23- **Mahmoud. S.M**., F.H. Badawy, M.A. Gameh and H.S. Sadiek, 1996. Effect of inoculation of pigeon pea, siratro and guar with *Bradyrhizobium* strains, nitrogen and phosphorus fertilization on: II- Forage yield. Assiut J. Agric. Sci. 27 (1): 17-32.
24- **Mahmoud, S.M**. 1996. Effect of soil solarization on the population densities of some soil microorganisms. Assiut J. Agric. Sci. 27(3): 94-105.
25- **Mahmoud, S.M**., S.H. Mohamed, M.M. El-Desouky and M.H. Abd-Alla. 1996. Residual effect of soil application of some pesticides on growth and nodulation of soybean. Assiut J. Agric. Sci. 27 (3): 83-91.
26- El-Desouky, M.M., **S.M. Mahmoud**, H.M. El-Rewainy and F.H. Badawy, 1997. Response of faba bean to presowing seed treatments and to inoculation with local R. *leguminosarum* strains in Upper Egypt. Assiut J. Agric. Sci. 28 (1): 119-127.

27- Badawy, F.H., M.M. El-Desouky, **S.M. Mahmoud** and H.M. El-Rewainy. 1996. Effect of *Bradyrhizobium* carriers and their storage periods on cell viability and nodulation, growth and yield of soybean. Assiut J. Agric. Sci. 27 (4): 207-216.

28- **Mahmoud, S.M**., K.K. Attia and M.M. El-Desouky, 2000. Response of peanut grown on sandy calcareous soil to inoculation with *Bradyrhizobium* spp. And fertilization with organic manure and some micronutrients. J. Agric. Sci. Mansoura Univ. 25 (1): 595-609.

29- **Mahmoud, S.M**. and I.A. El-Far. 2000. Effect of inoculation with *Bradyrhizobium* (hypogeae) and nitrogen fertilization on the productivity of peanut (*Arachis hypogeae* L.) grown on sandy calcareous soil. Assiut J. Agric. Sci. 31 (3): 57-72.

30- El-Rewainy, H.M., F.H. Badawy, **S.M. Mahmoud** and H.M. Mahmoud. 2002. Isolation characterization and growth of Azotobacter chroococcum strains under fermenter conditions. Proc. Minia 1st Conf. for Agric. & Environ. Sci. Minia, Egypt, March 25-28 Pp. 179-193.

31- **Mahmoud, S.M.,** F.H. Badawy, H.M. El-Rewainy and H.M. Mahmoud. 2002. Response of tomato and onion to inoculation with Azotobacter. Proc. Minia 1st Conf. for Agric. & Environ. Sci., Minia, Egypt, March 25-28.

32- M.H. Ahmed , S.M. Mahmoud , H.M. Mohamed and H.M. Shahata 2015. Effect of Prio, Nitrogen and Phosphorus Fertilization on growth, yield and yield components of Sunflower Crop grown in El-Kharga Oasis, New Valley. Assiut University April 19th , 2015 .

33- S.M. Mohamed , H.M. Mohamed, H.M. Shahata and H.M. Ahmed. 2016 . Growth, yield and yield components of canola crop in El-Kharga Oasis , New Valley as affected by Bound Minaret Fertilization. The Scientific conf. of Agric. Sci. Fac. Agric. Assiut University octdser 50-31.

34- S.M. Mohamed , H.M. Mohamed and H.M. Ahamed 2016. Effect of Bib, Nitrogen and Phosphorus Fertilizes on growth, yield and yield component and Nutrient content of canola crop in El-Kharga Oasis , New Valley. The 12th Intern conf. of the Egyptian Society of Soil Shonce 2729, 7-9 March 2016 .

35- Mohamed , S.M., H.M. Mohamed ; H.M. Shahata and H.M. Ahmed 2017. Growth , yield and yield components of canola crop cbrassica napusl in El-Kharga Oasis, New Valley as affected by Bio, Nitrogen and Phosphorus Fertilization Assiut J. Agric. Sci., (48) No (1-1) 319-330.