



In the Name of God

## Curriculum Vitae (C. V.)

### Personal Data:

#### HADI ASADI RAHMANI

Born on 10. 05. 1969 Buin Zahra, Iran

Married

### Education:

B. S. in Soil Science, 1991, University of Tehran, Karaj, Iran (GPA 17.01).

M.S. in Soil Biology, 1996, University of Tehran, Karaj, Iran (GPA 17.31).

Ph.D. (Soil Biology), 2002, Tarbiat Modarres University, Tehran, Iran (GPA 16.98).

Post-doctoral research, 2007-2008, University of Helsinki, Helsinki, Finland.

### Experience:

Employed as a scientific board at Soil and Water Research Institute, Tehran, Iran, 1995 to present:

Soil Microbiology lab specialist, 1995 to Present.

Assistant Director, Soil and Water Research Station, Karaj, 1999-2003.

Head, Soil Biology Department at Soil and Water Research Institute, 2004-2007.

### Publications:

#### a) In Persian:

1. **Asadi Rahmani, H.** (1998). Organic matter, Importance and increasing in the Soil. Technical Publication, No. 42, Soil and Water Research Institute, Agricultural Education Press.
2. **Asadi Rahmani, H.** Saleh-Rastin, N. and Sajjadi, A. (1999). Prediction the necessity of soybean inoculation based on the numbers of *Bradyrhizobium japonicum* and evaluation of N-availability indices. 6th Iranian Congress of Soil Science, Mashhad, Iran.
3. **Asadi Rahmani, H.** and Fallah, A. R. (2000). The importance of the production and extension of plant growth promoting biological fertilizers.

- Iranian Journal of Soil and Water Sciences (*Special Issue, Soil Biology*). 12, 7: 97-105.
4. **Asadi Rahmani, H.** and Saleh-rastin, N. (2000). Prediction the necessity of Soybean inoculation based on the numbers of *Bradyrhizobium japonicum* and evaluation of N-availability indices. Iranian Journal of Soil and Water Sciences (*Special Issue, soil Biology*). 12, 7: 21-32.
  5. Rejali, F. and **Asadi Rahmani, H.** (2000). *Rhizobium*. 20 Minutes Educational Film. Educational Technology Service, Agricultural Research, Education and Extension Organization.
  6. Rejali, F., Khavazi, K. and **Asadi Rahmani, H.** (2000). Evaluation the effectiveness of some *Bradyrhizobium japonicum* strains for production of soybean inoculant. Iranian Journal of Soil and Water Sciences (*Special Issue, Sustainable Agriculture*). 12, 9: 93-100.
  7. Rejali, F. Khavazi, K., **Asadi Rahmani, H.** , *et al.*, (2000). A comparison between soybean inoculants produced by SWRI with some imported products. Iranian Journal of Soil and Water Sciences (*Special Issue, Sustainable Agriculture*). 12, 9: 101-114.
  8. **Asadi Rahmani, H.**, Afshari, M., *et al.* (2001). Evaluation of N<sub>2</sub>-fixation effectiveness of Iranian native bean nodulating *rhizobia*. Second national conference on optimum utilization of chemical fertilizers and pesticides in agriculture, Karaj, Iran.
  9. **Asadi Rahmani, H.** and Rejali, F. (2001). Urease and its inhibitors in soil. Second national conference on optimum utilization of chemical fertilizers and pesticides in agriculture. Karaj, Iran.
  10. **Asadi Rahmani, H.** and Saleh-Rastin, N.(2002).Evaluation of temperature tolerance and N<sub>2</sub>-fixation in soybean nodulating *rhizobia*. Iranian Journal of Soil and Water Sciences. 16, 9: 179-188.
  11. Hemmati, A. and **Asadi Rahmani, H.** (2003). Comparison of the effects of different strains of *rhizobia* on the yield and N<sub>2</sub>-fixation of common bean. The 8<sup>th</sup> Iranian Soil Science Congress, Rasht, Iran
  12. Sepehri, M., Saleh-rastin, N., **Asadi Rahmani, H.** and Alikhani, H. A. (2003). Evaluation of the effects of different levels of Cadmium on the isolates of *Sinorizobium meliloti*. The 8<sup>th</sup> Iranian Soil Science Congress, Rasht, Iran
  13. **Asadi Rahmani, H.**, Khavazi, K. et al. (2004). Biofertilizers, supplementary or substitute for chemical fertilizers. First National Conference on Development of Chemical Fertilizers and Pesticides. Tehran, Iran.
  14. Yadegari, M., Akbari, G., Daneshian, J., **Asadi Rahmani, H.** and Ghasemi, A. (2004). Effect of rhizobial inoculation on nodulation, N<sub>2</sub>-fixation and physiological indices of different of soybean. The 8<sup>th</sup> Iranian Crop Production and Breeding Congress. Rasht, Iran.
  15. Yadegari, M., Daneshian, J. and **Asadi Rahmani, H.** (2004). Effect of different strains of *rhizobia* on nodulation and nitrogen fixation of soybean. Iranian Journal of Agronomy Sciences, vol. 6(1): 36-52.

16. Tajick, M. A., Asgharzadeh, A., Khavazi, K., Khanahmadi, A. and **Asadi Rahmani, H.** (2004). A study of *in vitro* cellulose degradation by *Aspergillus* spp. 16<sup>th</sup> Iranian Plant Protection Congress. karaj, Iran.
17. Alipour, Z., Malakouti, M. J., Khosravi, H. and **Asadi Rahmani, H.** (2004). The role of plant growth promoting rhizobacteria (PGPR) on growth and health of plant. Technical Publication, No, 310. Tehran, Iran.
18. **Asadi Rahmani, H.**, Ghotb-Sharif, J. and Shafiee, M. (2004). The necessity of the quality control of biofertilizers. First National Conference on Development of Chemical Fertilizers and Pesticides. Tehran, Iran.
19. **Asadi Rahmani, H.**, Afshari, M., Nourgholipour, F. and Khalafi, H. (2004). Effect of seed inoculation with *rhizobia* on the yield and quality of common bean. 3<sup>th</sup> National Conference on the Development in the Application of Biological Products and Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Karaj, Iran.
20. Khavazi, K., **Asadi Rahmani, H.** *et al.* (2004). Development of biofertilizers in Iran: Past and Future. 3<sup>th</sup> National Conference on the Development in the Application of Biological Products and Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Karaj, Iran.
21. Daneshi, N., **Asadi Rahmani, H.** *et al.* (2004). Effect of rhizobial inoculation on the yield and nitrogen fixation of common bean. 3<sup>th</sup> National Conference on the Development in the Application of Biological Products and Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Karaj, Iran.
22. Moshiri, F., **Asadi Rahmani, H.** and Afshari, M. (2004). Response of common bean to *rhizobium* inoculation and nitrogen fertilizers. 3<sup>th</sup> National Conference on the Development in the Application of Biological Products and Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Karaj, Iran.
23. Hemmati, A. and **Asadi Rahmani, H.** (2004). Effect of N-fertilizer and different strains of *rhizobia* on the yield of comon bean. 3<sup>th</sup> National Conference on the Development in the Application of Biological Products and Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Karaj, Iran.
24. Sepehri, M., Saleh-rastin, N., Alikhani, H. A. and **Asadi Rahmani, H.** (2004). Effect of Cadmium on the growth and nodulation of *Sinorhizobium meliloti*. 3<sup>th</sup> National Conference on the Development in the Application of Biological Products and Optimum Utilization of Chemical Fertilizers and Pesticides in Agriculture. Karaj, Iran.
25. Yahyaabadi, M. and **Asadi-Rahmani H.** (2005). Study the effect of different strains of rhizobia on nutrients uptake in bean. The 9<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
26. Yahyaabadi, M. , **Asadi-Rahmani H.**, Afshari, M. and Abolhasani, M. M.(2005). Comparison the effectiveness of different strains of rhizobia in

- N<sub>2</sub> fixation in bean at Isfahan. The 9<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
27. Amini, P., Ardakani, M. R., **Asadi-Rahmani H.** and Ghanbari, A. A. (2005) Evaluation of different strains of rhizobia on root nodulation and morphology of bean genotypes. The 9<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
  28. Khosravi, H., Mirzashahi, K. and **Asadi-Rahmani, H.** (2005) Comparison some rhizobial inoculants on the growth and yield of faba bean in Iran. The 9<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
  29. Mehnatkesh, A. and **Asadi-Rahmani, H.** (2005) Comparison of the yield and N-uptake ob bean inoculated by rhizobia. The 9<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
  30. Rasouli, M. H., Rahimian, H., Khavazi, K., Malakouti, M. J. and **Asadi-Rahmani, H.** (2005) Studying the diversity and population of fluorecent Pseudomonads in some soils of Iran. The 9<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
  31. Farajzadeh, D., Aliasgharzadeh, N., Hajiboland, R. and **Asadi-Rahmani, H.** (2005) Effect of Azospirillum on acid and base phosphatases activity in the wheat rhizosphere at different levels of N. The 9<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
  32. **Asadi Rahmani, H.**, Afshari, M., Khavazi, K., Nourgholipour, F. and Otadi, A.(2005) Effects of Common Bean Nodulating *Rhizobia* Native to Iranian Soils on the Yield and Quality of Bean. Iranian Journal of Soil and Water Sciences. 19,2: 215-225.
  33. Khavazi, K., **Asadi Rahmani, H.** and Malakouti, M. J.(2005) Necessity for the Production of Biofertilizers in Iran. A Compilation if Papers(2<sup>nd</sup> Edition). Sana Publications. Tehran, Iran.
  34. Pirvali, N., **Asadi Rahmani, H.**, Khorasani, A., Abbasalian, H., Mousavi, M.A. and Hemati, V. (2007) Evaluation of biological nitrogen fixation efficiency of rhizobial strains with two bean cultivars using <sup>15</sup>N isotope dilution method. The 10<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
  35. **Asadi Rahmani, H.**, Abbaszadeh, P., Saleh-rastin, N., Khavazi, K., Soltani, A. and Saghafi, K. (2007) Production of ACC-deaminase by isolates of fluourescent Pseudomonads. The 10<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
  36. Abbaszadeh, P., **Asadi Rahmani, H.**, Saleh-rastin, N., Khavazi, K., Soltani, A. and Saghafi, K. (2007) Isolation, characterization and potential for HCN production by fluourescent Pseudomonads. The 10<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
  37. Abbaszadeh, P., Saleh-rastin, N., **Asadi Rahmani, H.**, Khavazi, K., Soltani, A. and Hemati, V. (2007) Fluorescent Pseudomonads as phosphate solubilizing bacteria. The 10<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
  38. Abbaszadeh, P., Saleh-rastin, N., **Asadi Rahmani, H.**, Khavazi, K., Soltani, A. and Hemati, V. (2007) Potential for siderophore production by fluourescent Pseudomonads native to Iranian soils. The 10<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
  39. Soltani, A., Saleh-rastin, N., Khavazi, K., **Asadi Rahmani, H.**, Abbaszadeh, P., and Hemati, V. (2007) Cyanide production by fluourescent Pseudomonads and

their ability to use ACC as sole nitrogen source. The 10<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.

40. Soltani, A., Saleh-rastin, N., Khavazi, K., **Asadi Rahmani, H.**, Abbaszadeh, P., and Shahriyari, M.H. (2007) Evaluation of auxin production by fluorescent Pseudomonads native to Iranian soils. The 10<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
41. Khavazi, K., Soltani, A., Saleh-rastin, N., **Asadi Rahmani, H.**, Abbaszadeh, P., and Saghafi, K. (2007) Auxin and HCN production by some Flavobacterium isolates. The 10<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
42. Soltani, A., Khavazi, K., Saleh-rastin, N., **Asadi Rahmani, H.**, Abbaszadeh, P., and Nejati, A.R. (2007) Comparison of P-solubilizing fluorescent Pseudomonads and Flavobacterium spp. The 10<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.
43. Jalili, F., Khavazi, K., Pazira, E. and **Asadi Rahmani, H.** (2007) Effect of ACC-deaminase containing fluorescent Pseudomonads on germination and growth of two cultivars of canola. The 10<sup>th</sup> Iranian Soil Science Congress, karaj, Iran.

#### **b) In English:**

1. **Asadi Rahmani, H.** and Salehrastin, N. (2000). Prediction the necessity of soybean inoculation based on the numbers of *Bradyrhizobium japonicum* and evaluation of N-availability indices. 9th Congress of the African Association for Biological Nitrogen Fixation, Nairobi, Kenya.
2. **Asadi Rahmani, H.** and Saleh-Rastin, N. (2001). A study of the effect of soil available N and indigenous rhizobial population on the growth and yield of soybean and modeling of the inoculation prediction. XIV International Plant Nutrition Colloquium., Hannover, Germany.
3. **Asadi Rahmani, H.** and Saleh-Rastin, N. (2002). Strain selection and Inoculant production for soybean in warm regions of Iran. 5<sup>th</sup> European Nitrogen Fixation Conference, Norwich, UK.

#### **c) Patents**

1. Patent (Know How): The production of Common bean inoculat. 2003, Tehran, Iran.
2. Patent (Know How): The production of soybean inoculant for warm regions. 2003, Tehran, Iran.
3. Patent (Know How): The production of plant root inducing bacteria. 2004, Tehran, Iran.

#### **d) Books**

1. K. Khavazi, **H. Asadi-Rahmani** and M. J Malakouti (editors). 2005. Necessity for the production of biofertilizers in Iran. Sana Publications, Tehran, Iran.
2. **H. Asadi Rahmani**, A. Asgharzadeh, K. Khavazi, F. Rejali and G. R. Savaghebi (translators). 2007. Jahad-e-Daneshgahi Publications, Tehran, Iran.

#### **e) Training**

1. Methods for screening and study of plant growth promoting rhizobacteria (PGPR). All Russian Research Institute for Agricultural Microbiology, Sep. 23- Dec. 8. 1997, St-Petersburg, Russia.
2. Establishment, Operation and Management of a Microbial Culture Collection Laboratory. Aug. 23-Sep. 3, 2004, University of Philippines, Los Banos, Philippines.