Dr. M. S. REDDY

Department of Entomology & Plant Pathology
211 Life Sciences Building
Auburn University
Auburn, Alabama 36849-5409
Email: munagrs@auburn.edu

Phone: 334-844-1971 (Work), 334-559-1971 (Cell), Fax: 334-826-7532

Chairman for Asian PGPR Society for Sustainable Agriculture:
www.asianpgpr.org

RESEARCH AREAS:

Biological control of soil-borne and foliar pathogens, Plant growth-promoting rhizobacteria (PGPR), induced systemic resistance (ISR), commercial development of biofungicides and biofertilizers, efficacy of fungicides and bactericides for disease control in various crops and ornamentals, integrated pest management, plant pathogen interactions, chemical compatibility and mechanisms of biological control. Special interest in disease management of tropical crops such as rice, cereals, sugar cane, coffee, tea, mango, spices and other plantation crops. Emphasis has been directed towards the use of biofertilizers and biofungicides for sustainable agriculture in developing countries.

EDUCATION

Ph. D. Biological Sciences (Plant Pathology and Biological Control), Centre for Pest Management, Simon Fraser University, British Columbia, Canada, 1986
M. Sc. Botany (Plant Pathology Major (Aerobiology), Andhra University, Waltair, India, 1977
B. Sc. Biological Sciences, Andhra University, Waltair, India, 1975

PROFESSIONAL EXPERIENCE

- **1998 to date: Associate Research Professor**, Department of Entomology & Plant Pathology, Auburn University, Auburn, Alabama, USA
- **1997 - 1998: Silviculture Manager**, New Products Strategic Business Unit, Agrium Inc., Saskatoon, Saskatchewan, Canada
- **1995 - 1997: Senior Research Scientist,** Agrium Inc., Saskatoon, Saskatchewan, Canada
- **1994 -1995: Research Scientist**, Cominco Fertilizers Ltd., Saskatoon, Saskatchewan, Canada
- **1990 - 1994: Research Scientist**, Exxon/Esso Ag Biologicals, Saskatoon, Saskatchewan, Canada
- **1988 - 1990: Research Scientist**, Microbial Inoculants, Allelix Crop Technologies, Mississauga, Ontario, Canada
- **1987 - 1988: Post-Doctoral Fellow**, Department of Botany, University of Toronto, Toronto, Ontario, Canada
- **1982 - 1986: Teaching/Research Assistant**, Department of Biological Sciences, Simon Fraser University, British Columbia, Canada

- **1978 - 1982:** Assistant Professor, S. V. K. P. College, Markapur, Andhra Pradesh, India
- **1978: Research Associate** for Pulse Improvement Program, International Crops Research Institute for Semi Arid Tropics (ICRISAT), Hyderabad, India
- **1977: University Research Fellow and Council of Scientific Industrial Research Fellow,** Department of Environmental Sciences, Andhra University, India
- **1975-1976: Invited Part Time Lecturer**, Adult Education Centre, Andhra University, Waltair, India

HONORS, AWARDS & FELLOWSHIPS

- **2008**: **Young small business entrepreneur of the year**, Awarded by Mr. George W. Bush, President of USA
- **1997: Presidential Award** from the Chief Executive Officer, Agrium Inc., Canada, for outstanding performance in research and development
- **1996: Goal-Based Incentive Award** for excellent performance and goal achievement, Agrium Inc., Canada
- **1995: Special Incentive Award** for leading the Silviculture Program to a new product achievement, **years ahead of Agrium anticipated schedule**, Agrium Inc., Canada
- **1986: Canadian Bureau for International Education Travel Award**, Ottawa, Canada.
- **1982-1986: National Overseas Scholarship,** Ministry of Home Affairs, Government of India, New Delhi
- **1985: President Research Stipend**, Simon Fraser University, British Columbia, Canada.

PROFESSIONAL ASSOCIATIONS

- Member - Canadian Phytopathological Society
- Editorial Board Member – Journal of Pure & Applied Microbiology
- Member - American Phytopathological Society
- Member - American Association for the Advancement of Science (AAAS)
- Member-College of Graduate Studies, University of Saskatchewan, Saskatoon, Saskatchewan, Canada

PROFESSIONAL ACTIVITIES

- **Editorial Board Member** (Current) – Journal of Pure & Applied Microbiology (International Research Journal of Microbiology)
- **Chairman,** Asian PGPR Society
- **Board Member,** World Congress of Industrial Biotechnology, IBIO, China

PUBLICATIONS – (2003 - 2010)

1. Prasanna Reddy, B., Jansi Rani, M. S. Reddy and K. Vijay Krishna Kumar. **2010**. Isolation of siderophore – producing strains of rhizobacterial fluorescent *Pseudomonads* and their biocontrol against rice fungal pathogens. **International Journal of Applied Biology and Pharmaceutical Technology 1(1): 133-137.**

2. Prasanna Reddy, B., Jansi Rani., M. S. Reddy and K. Vijay Krishna Kumar. **2010.** *In-vitro* antagonistic potential of *Pseudomonas fluorescens* isolates and their metabolites against rice sheath blight pathogen, *Rhizoctonia solani*. **International Journal of Applied Biology and Pharmaceutical Technology Vol. 1(2): 676-679.**

3. Prasanna Reddy. B., K. Amarnadh Reddy and M. S. Reddy. **2010.** Validation and stability indicating RP-HPLC method for the determination of Tadalafil API in Pharmaceutical formulations. **Research in Pharmaceutical Biotechnology Vol. 2(1): 001-006.**

4. Vijay Krishna Kumar, K., M. S. Reddy., J. W. Kloepper., K. S. Lawrence., D. E. Groth and M. E. Miller. **2009**. Sheath blight disease of rice (*Oryza sativa* L) - An overview. **Biosciences Biotechnology Research Asia 6: 465-480.**

5. Prasanna Reddy, B. and M. S. Reddy. 2009. Bacteriological examination of drinking water with reference to coliforms in Jeedimetla, Hyderabad, India. **African Journal of Biotechnology Vol. 8 (20): 5495-5496**.

6. Vijay Krishna Kumar, K. **.**, S. Krishnam Raju., M. S. Reddy., J. W. Kloepper., K. S. Lawrence., D. E. Groth., M. E. Miller., H. Sudini and B. Du. **2009**. Evaluation of commercially available PGPR for control of rice sheath blight caused by *Rhizoctonia solani*. **J. Pure & Applied Microbiol. Vol 3(2): 485-488.**

7. Prasanna Reddy, B., M. S. Reddy and K. Vijay Krishna Kumar. **2009**. Characterization of antifungal metabolites of *Pseudomonas fluorescens* and their effect on mycelial growth of *Magnaporthe grisea* and *Rhizoctonia solani*. **Int. J. PharmaTech Research Vol 1(4): 1490-1493.**

8. Arakere Chunchegowda Udaya Shankar , Siddaiah Chandra Nayaka , Sathyanarayana Niranjan-Raj , Hanumanthaiah Bhuvanendra Kumar , Munagala S Reddy , Siddapura Ramachandrappa Niranjana and Harishchandra Sripathy Prakash **2009**. Rhizobacteria-mediated resistance against the blackeye cowpea mosaic strain of bean common mosaic virus in cowpea (*Vigna unguiculata*). **Pest Management Science 65: 1059-1064.**

9. Siddaiah Chandra Nayaka, Arakere C Udaya Shankar, Munagala S Reddy, Siddapura R Niranjana, Harishchandra S Prakash, Hunthrike S Shetty, Carmen N Mortensen. **2009**. Control of *Fusarium verticillioides*, cause of ear rot of maize, by *Pseudomonas fluorescens***. Pest Management Science** 65: 769-775.

10. Islam, M. R, P. Trivedi, P. Palaniappan, M. S. Reddy and Tongmin, M. S. **2009**. Evaluating the effect of fertilizer application on soil microbial community structure in rice based cropping system using fatty acid methyl esters (FAME) analysis. **World J. Microbiol & Biotechnol. 25: 1115-1117.**

11. Prasanna Reddy, B. and M. S. Reddy. **2009**. Siderophore-mediated antibiosis of rhizobacterial fluorescent *Pseudomonas* against rice fungal pathogens**. International Journal of Pharma Tech Research Vol. 1 (2): 227-229.**

12. Prasanna Reddy, B. and M. S. Reddy. **2009**. Isolation of secondary metabolites from *Pseudomonas fluorescens* and its characterization. **Asian Journal of Research in Chemistry Vol. 2 (1): 26-29.**

13. Prasanna Reddy, B. V. Ramanjaneya Reddy and M. S. Reddy. **2009**. Biochemical and PCR-RAPD characterization of *Pseudomonas fluorescens* produced antifungal compounds inhibit the rice fungal pathogens *in vitro*. **Journal of Pure and Applied Microbiology Vol. 3 (1): 347-350.**

14. Prasanna Reddy, B. and M. S. Reddy. **2009**. Residual solvents determination by HS-GC with Flame Ionization Detector in Omeprazole Pharmaceutical formulations. **International Journal of Pharma Tech Research Vol. 1(2): 230-234.**

15. Prasanna Reddy, B. and M. S. Reddy. **2009**. RP-HPLC Method for simultaneous estimation of Paracetamol and Ibuprofen in Tablets. **Asian Journal of Research in Chemistry Vol. 2(1): 70-72.**

16. Prasanna Reddy. B. and M. S. Reddy. **2009**. Development and validation of RP-HPLC for the Rabeprazole sodium in Pharmaceutical formulations and human plasma**. Asian Journal of Research in Chemistry Vol. 2(1): 49-51.**

17. Nayaka, S. C., Niranjana, S. R., Shankar, A. C., Uday, R., S. Niranjan., Reddy, M. S., Prakash, H. S. and Mortensen, C. N. **2008**. Seed biopriming with novel strain of *Trichoderma harzianum* for the control of toxigenic *Fusarium verticillioides* and fumonisins in maize. **Archives of Phytopathology and Plant Protection 41: 1-19**.

18. Liu, W., Sutton, J. C., Grodzinski, B., Kloepper, J. W. and Reddy, M. S. **2007**. Biological control of *Pythium* root rot of chrysanthemum in small scale hydroponic units. **Phytoparasitica 35: 159-178**.

19. Reddy, K. R. N., Choudary, A. D. and Reddy, M. S. **2007**. Antifungal metabolites of *Pseudomonas fluorescens* isolated from rhizosphere of rice crop. **J. Mycol. Pl. Pathol. 37: 280-284.**

20. Choudary, A. D., Reddy, K. R. N. and Reddy, M. S. **2007**. Antifungal activity and genetic variability of *Trichoderma harzianum* isolates. **J. Mycol. Pl. Pathol. 37: 295-300.**

21. Desai, S., Narayanaiah, C. H., Kumari C. H. Kranti., Reddy, M. S., Gnanamanickam, S. S., Rao. G. R., and Venkateswarlu, B. **2007**. Seed-inoculation with *Bacillus* spp. improves seedling vigour in oilseed *Jatropha curcas*. **Biol. Fert. Soils 44: 229-234**.

22. Ryu, C. M., Murphy, J. F., Reddy, M. S. and Kloepper, J. W. **2007**. A two-strain mixture of rhizobacteria elicits induction of systemic resistance against *Pseudomonas syringae* and Cucumber mosaic virus coupled to promote plant growth in *Arabidopsis thaliana*. **Journal of Microbiology and Biotechnology 17:280-286**.

23. Domenech, J., M. S. Reddy., J. W. Kloepper., B. Ramos and J. Gutierrez-Manero. **2006**. Combined application of the biological product LS213 with Bacillus, Pseudomonas or Chryseobacterium for growth promotion and biological control of soil-borne diseases in pepper and tomato. **Biocontrol** 51: 245-258.

24. Kokalis Burelle, N., J. W. Kloepper and M. S. Reddy. **2006**. Plant growth promoting rhizobacteria as transplant amendments and their effects on indigenous rhizosphere microorganisms. **Applied Soil Ecology** 31: 91-100.

25. Ryu, C. M., M. A. Farag, C. H. Hu, M. S. Reddy, J. W. Kloepper and P. W. Pare. **2004**. Bacterial volatiles induce systemic resistance in Arabidopsis. **Plant Physiology** 134 (3): 1-10.

26. Zhang, S., M. S. Reddy and J. W. Kloepper. **2004**. Tobacco growth enhancement and blue mold disease protection by rhizobacteria: relationship between plant growth promotion and systemic disease protection by PGPR strain 90-166. **Plant and Soil** 262: 277-288.

27. Kloepper, J. W., M. S. Reddy., D. S. Kenney., N. Kokalis-Burelle., N. Martinez-Ochoa and C. Vavrina. Application of rhizobacteria in transplant production and yield enhancement. **2004**. **Act. Hort. 631: 217-229.**

28. Mohan Babu, R., Sajeena, A., Samundeeswari, A., Sreedhar, A., Seetharaman, K. and Reddy, M. S. **2003**. Induction of bacterial blight (*Xanthomonas oryzae* pv. oryzae) resistance in rice by treatment with acibenzolar-S-methyl. **Annals of Applied Biology 143: 333-340.**

29. Mohan Babu, R., Sajeena, A., Vijaya Samundeeswari, A., Sreedhar, A., Vidhyasekharan, P., Seetharaman, K. and Reddy, M. S. **2003**. Differential induction of chitinase and b-1, 3-glucanase in rice in response to inoculation with bacterial leaf blight pathogen (*Xanthomonas oryzae* pv. oryzae). **Journal of Plant Diseases and Protection** 110: 105-112.

30. Mohan Babu, R., Sajeena, A., Vidhyasekaran, P., Seetharaman, K. and Reddy, M. S. **2003.** Characterization of a phytotoxic glycoprotein produced by *Phoma eupyrena* – a pathogen on water lettuce. **Phytoparasitica** 31: 265-274.

31. Mohan Babu, R., Sajeena, A., Seetharaman, K. and Reddy, M. S. **2003**. Advances in genetically engineered (transgenic) plants in pest management – an overview. **Crop Protection** 22: 1071-1086.

32. Ryu, C.M., C. H. Hu., M. S. Reddy and J. W. Kloepper. **2003**. Different signaling pathways of induced resistance by rhizobacteria in Arabidopsis thaliana against two pathovars of *Pseudomonas syringae*. **New Phytologist 160**: 413-420.

33. Murphy, J. F., M. S. Reddy, C. M. Ryu, J. W. Kloepper and Ruhui. L. **2003**. Rhizobacteria-mediated growth promotion of tomato leads to protection against cucumber mosaic virus. **Phytopathology 93: 1301-1307.**

34. Yan, Z., M. S. Reddy and J. W. Kloepper. **2003**. Survival and colonization of rhizobacteria in a tomato transplant system. **Can. J. Microbiology** 49: 383-389.

35. Ryu, C. M., M. A Faraq, C. H. Hu, M. S. Reddy, H. X. Wei, P. W. Pare and J. W. Kloepper. **2003**. Bacterial volatiles promote growth in Arabidopis. **PNAS** 100: 4927-4932.

36. Burelle-Kokalis, N., C. S. Vavrina., M. S. Reddy and J. W. Kloepper. **2003**. Amendment of muskmelon and watermelon transplant media with plant growth-promoting rhizobacteria: effects on seedling quality, disease, and nematode resistance. **Hort Technology 13: 476-482.**

37. Niranjan Raj, S., Deepak, S. A., Chaluvaraju, G., Shetty, H. S. Reddy, M. S. and Kloepper, J. W. **2003**. Comparative performance of PGPR in growth promotion and downy mildew disease suppression in pearl millet (*Pennisetum glaucum*). **Crop Protection 22: 579-588.**

38. Niranjan Raj, S., Chaluvaraju, G., Amruthesh, K. N., Shetty, H. S., Reddy, M. S. and Kloepper, J. W. **2003**. Induction of growth promotion and resistance against downy mildew on pearl millet (*Pennisetum glaucum*) by rhizobacteria. **Plant Disease 87: 380-384.**

BOOK CHAPTERS

39. Niranjana Raj, S., H. S. Shetty and M. S. Reddy. **2005**. Plant growth promoting rhizobacteria: Potential green alternative for plant productivity. Pages 197-216, In: **PGPR: Biocontrol and Biofertilization.** Z. A. Siddiqui, (eds.), Springer, Dordrecht, The Netherlands.

40. Desai, S., M. S. Reddy, and J. W. Kloepper. **2002**. Comprehensive testing of biological control agents. Pages 387-420, In: **Biological Control of Crop Diseases**. S. Gnanamanickam, (eds.), Marcel Dekker, Inc., NY.

41. Gnanamanickam , S. S., P. Vasudevan., M. S. Reddy., G. Défago and J. W. Kloepper. **2002**. Principles of biological control. Pages 1-9, In: **Biological Control of Crop Diseases**. S. Gnanamanickam, (eds.), Marcel Dekker, Inc., NY.

42. Boyetchko, S. M., E. A. Pedersen., Z. K. Punja, and M. S. Reddy. **1999**. Formulations of biopesticides. Pages 487-508, In: **Biopesticides: Use and Delivery**. F. R. Hall and J. J. Menn, (eds.), Humana Press, NJ. 626 p.

43. Reddy, M. S. **1991.** Biological control of plant diseases. Pages 33-42, In: **Biological Control of Pests in Canada.** A. S. McClay (eds.), Alberta, Canada, 136 p.

EDITORIAL

44. Plant Growth-Promotion by Rhizobacteria for Sustainable Agriculture. **2010**. M. S. Reddy., S. Desai., R. Sayyed., V. Krishna Rao., Y. R. Sarma., B. Chenchu Reddy., K. R. K. Reddy., A. R. Podile and J. W. Kloepper. Scientific Publishers (India), Jodhpur, India. 624 pp.

45. 6th International PGPR Workshop Proceedings. **2003**. M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 pp.

REFEREED SHORT PUBLICATIONS

46. Xin-Gen Zhou., M. S. Reddy., Joseph W. Kloepper and Shouan Zhang. **2010**.Biologically-based integrated management of rice sheath blight. pp. In: XX, "**Texas Rice Special Section".**

47. Xin-Gen Zhou., Joseph W. Kloepper., M. S. Reddy., Shouan Zhang and Donald. E. Groth. **2010.** Biocontrol of rice bacterial panicle blight. pp. In: XXI, "**Texas Rice Special Section**".

48. K. Vijay Krishna Kumar., S. Krishnam Raju., M. S. Reddy., K. S. Lawrence., D. E. Groth., M. E. Miller., H. Sudini and B. Du. 2009. Field efficacy of commercial formulations of Pseudomonas fluorescens and plant extracts against rice sheath blight disease In: **Plant Growth Promotion by Rhizobacteria for Sustainable Agriculture** edited by M. S. Reddy, S. Desai, R. Z. Sayyed, V. K. Rao, Y. R. Sarma, B. C. Reddy, K. R. K. Reddy, A. R. Podile and J. W. Kloepper. Scientific Publishers, India. 624 pp.

49. K. Vijay Krishna Kumar**.,** M. S. Reddy., J. W. Kloepper., K. S. Lawrence., D. E. Groth., M. E. Miller., H. Sudini and B. Du. **2009**. *In-vitro* efficacy of various rhizobacterial isolates against *Rhizoctonia solani*, the causal agent of rice sheath blight disease. In: **Plant Growth Promotion by Rhizobacteria for Sustainable Agriculture** edited by M. S. Reddy, S. Desai, R. Z. Sayyed, V. K. Rao, Y. R. Sarma, B. C. Reddy, K. R. K. Reddy, A. R. Podile and J. W. Kloepper. Scientific Publishers, India. 624 pp.

50. Reddy, M. S**.,** K. Vijay Krishna Kumar**.,** H. Sudini., S. Niranjana Raj., S. C. Nayak., S. A. Deepak., A. Chaluvaraju., A. C. Shankar., R. S. Uday., H. S. Shetty., H. S. Prakash., S. Niranjana., S. Desai., V. Krishna Rao., K. S. Park., C. M. Ryu., P. Kim., B. Du., C. H. Bongfiglio., S. Gnanamanickam, Y. R. Sarma and J. W. Kloepper. **2009**. PGPR's in crop production systems. In: **Plant Growth Promotion by Rhizobacteria for Sustainable Agriculture** edited by M. S. Reddy, S. Desai, R. Z. Sayyed, V. K. Rao, Y. R. Sarma, B. C. Reddy, K. R. K. Reddy, A. R. Podile and J. W. Kloepper. Scientific Publishers, India. 624 pp.

51. Prasanna Reddy, B., K. R. N. Reddy., M. S. Reddy., K. Vijay Krishna Kumar and H. Sudini. 2009. Biological control of rice sheath blight disease by *Pseudomonas fluorescens* isolates In: **Plant Growth Promotion by Rhizobacteria for Sustainable Agriculture** edited by M. S. Reddy, S. Desai, R. Z. Sayyed, V. K. Rao, Y. R. Sarma, B. C. Reddy, K. R. K. Reddy, A. R. Podile and J. W. Kloepper. Scientific Publishers, India. 624 pp.

52. Prasanna Reddy, B., M. S. Reddy., K. Vijay Krishna Kumar and H. Sudini. **2009**. Investigations on antifungal metabolites of *Pseudomonas fluorescens* isolates and their antagonism against major fungal pathogens of Rice In: **Plant Growth Promotion by Rhizobacteria for Sustainable Agriculture** edited by M. S. Reddy, S. Desai, R. Z. Sayyed, V. K. Rao, Y. R. Sarma, B. C. Reddy, K. R. K. Reddy, A. R. Podile and J. W. Kloepper. Scientific Publishers, India. 624 pp.

53. Prasanna Reddy, B., M. S. Reddy., K. Vijay Krishna Kumar and H. Sudini. 2009. *In-vitro* antagonistic effect of *Pseudomonas fluorescens* on mycelial growth of rice blast and sheath blight pathogens In: **Plant Growth Promotion by Rhizobacteria for Sustainable Agriculture** edited by M. S. Reddy, S. Desai, R. Z. Sayyed, V. K. Rao, Y. R. Sarma, B. C. Reddy, K. R. K. Reddy, A. R. Podile and J. W. Kloepper. Scientific Publishers, India. 624 pp.

54. Chandrashekhara, S., R. Niranjan., S. A. Deepak., N. P. Shetty., K. N. Amruthesh., H. S. Shetty and M. S. Reddy. **2003**. Endophytic bacteria from different plant species induce growth promotion and reduce downy mildew disease in pearl millet. Pages 115-121**. In: 6th International PGPR Workshop**. M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

55. Amruthesh, K. N., S. Niranjana Raj, B. Kiran, H. S. Shetty and M. S. Reddy. **2003**. Growth promotion by plant growth-promoting rhizobacteria in some economically important crop plants. Pages 97-103. In: **6th International PGPR Workshop**. M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

56. Deepak, S., Niranjana, S. R., H. S. Shetty and M. S. Reddy. **2003**. Effect of biological dosage of *Pseudomonas fluorescens* on seed quality of paddy and sorghum. Pages 123-126. In: **6th International PGPR Workshop.** M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

57. Sharath Chandra, R. G., S. Niranjana Raj, K. N. Amruthesh., H. S. Shetty and M. S. Reddy. **2003.** Induction of growth enhancement and systemic resistance against downy mildew in pearl millet by plant growth promoting rhizobacteria. Pages 229-235. In: **6th International PGPR Workshop**. M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

58. Naik, D., M. S. Rao., M. Shylaja., M. S. Reddy., and B. A. Rahiman. **2003**. Management of wilt disease complex in capsicum using *Bacillus pumilus* and *Paecilomyces lilacinus*. Pages 276-281. In: **6th International PGPR Workshop**. M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

59. Ryu, C. M., M. A. Farag, C. H. Hu., M. S. Reddy., P. W. Pare and J. W. Kloepper. **2003**. Volatiles produced by PGPR elicit plant growth promotion and induced resistance in Arabidopsis. Pages 436-443. In: **6th International PGPR Workshop**. M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

60. Niranjana Raj, S., B. R. Sarosh., N. P. Shetty., H. S. Shetty., and M. S. Reddy. **2003**. Plausible biochemical and molecular mechanisms involved in plant growth promoting rhizobacteria mediated resistance induction against pearl millet downy mildew disease. Pages 520-529. In: **6th International PGPR Workshop**. M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

61. Radhajeyalakshmi, R., V. Valluvaparidasan., S. Doraiswamy., and M. S. Reddy. **2003**. PGPR mediated disease resistance in rice against major seed-borne pathogens. Pages 531-534. In: **6th International PGPR Workshop.** M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

62. Shylaja, M., M. S. Rao., D. Naik., M. S. Reddy., and A. B. Rahiman. **2003**. Induction of systemic resistance in a susceptible cultivar of tomato by Bacillus subtilis. Pages 591-595. In: **6th International PGPR Workshop.** M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

63. Zhang, S., M. S. Reddy., and J. W. Kloepper. **2003**. PGPR mediated growth promotion of tobacco and blue mold disease control. Pages 444-451. In: **6th International PGPR Workshop**. M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

64. Gutierrez-Estrada, A., M. S. Reddy and J. W. Kloepper. **2003**. Induction of growth promotion in ornamental sunflower by mixtures and communities of PGPR. Pages 282-289. In: **6th International PGPR Workshop.** M. S. Reddy., M. Anandaraj., S. J. Eapen., Y. R. Sarma and J. W. Kloepper (eds.). Indian Institute of Spices Research, Calicut, India, 636 p.

SHORT PAPERS IN PROCEEDINGS

65. **Reddy, M. S**., K. Vijay Krishna Kumar and Hari Sudini **2009.** Commercial potential of biofertilizers and biofungicides for sustainable bio-economy in the world. **IBIO BIT's 2nd Annual World Congress of Industrial Biotechnology,** Seoul, South Korea, April 5-7.

66. **Sarma, Y. R.** and M. S. Reddy **2009.** Biological control: A major strategy of IPM/IDM in disease management of spice crops in India. **IBIO BIT's 2nd Annual World Congress of Industrial Biotechnology,** Seoul, South Korea, April 5-7.

67. Vijay Krishna Kumar, K., M. S. Reddy., K. K. Lawrence., D. E. Groth., M. Miller and J. W. Kloepper. **2009**. Development of a greenhouse sheath blight disease assay in rice for evaluation of selective PGPR strains as biocontrol agents. **8TH International PGPR Workshop**, Oregon, Portland, May 17-22.

Publications (after 2003)

68. Yan, Z., M. S. Reddy., Choong-Min Ryu., John A. McInroy., Mark Wilson, and Joseph W. Kloepper. **2002**. Induced systemic protection against tomato late blight elicited by plant growth-promoting rhizobacteria. **Phytopathology 92: 1329-1333**

69. Zhang, S., A. L. Moyne., M. S. Reddy, and J. W. Kloepper. **2002**. The role of salicylic acid in induced systemic resistance elicited by plant growth-promoting rhizobacteria against blue mold of tobacco. **Biological Control** 25: 288-296.

70. Vasudevan, P., Reddy, M.S., Kavitha, S., Velusamy, P., David Paul Raj, R.S., Purushothaman, S.M., Priyadarisini, V.B., Bharathkumar, S., Kloepper, J.W. and Gnanamanickam, S.S. **2002.** Role of biological preparations in enhancement of rice seedling growth and grain yield. **Curr. Sci**. 83(9): 1140-1143.

71. Reddy, M. S., S. Kumar., K. Babita, and M. S. Reddy. **2002**. Biosolubilization of poorly soluble rock phosphates by *Aspegillus tubingensis* and *Aspergillus niger*. **Bioresource Technology 84:** 187-189.

72. Zhang, S., M. S. Reddy, and J. W. Kloepper. **2002**. Development of assays for assessing induced systemic resistance by plant growth-promoting rhizobacteria against blue mold of tobacco. **Biological Control** 23: 79-86.

73. Burelle-Kokalis., N., C. S. Vavrina., M. S. Reddy, and J. W. Kloepper. **2003**. Amendment of muskmelon and watermelon transplant media with plant growth-promoting rhizobacteria: effects on seedling quality, disease, and nematode resistance. **HortTechnology 13: 476-482.**

74. Kloepper, J. W., M. S. Reddy., D. S. Kenney., N. Kokalis-Burelle., N. Martinez-Ochoa' and C. Vavrina. Theory and application for rhizobacteria in transplant production and yield Enhancement. **2002**. **XXVI International Horticultural Congress**, August 11 to 17, 2002, Toronto, Canada.

75. Zhang, S., M. S. Reddy., N. Kokalis-Burelle., L. W. Wells., S. P. Nightengale, and J. W. Kloepper. **2001**. Lack of induced systemic resistance in peanut to late leaf spot disease by plant growth-promoting rhizobacteria and chemical elicitors. **Plant Disease** 85: 879-884.

76. Reddy, M. S., C. M. Ryu, T. Dawkins, and J. W. Kloepper. **2001**. Can beneficial bacteria from Auburn boost tomato growth and yield? Alabama Agricultural Experiment Station of Auburn University Highlights**.** Volume 48, No.2, Summer 2001 (Auburn University Web Site, Available: **http://www.ag.auburn.edu/resininfo/highlightsonline/summer01/index.html** (Accessed 03-04-02).

77. Zhang, S., M. S. Reddy., N. Kokalis-Burelle., L. W. Wells., S. P. Nightengale, and J. W. Kloepper. **2001**. Lack of induced systemic resistance in peanut to late leaf spot disease by plant growth-promoting rhizobacteria and chemical elicitors. **Plant Disease** 85: 879-884.

78. Pedersen, E. A., M. S. Reddy, and P. Chakravarty. **1999**. Effect of three species of bacteria on damping-off, root rot development, and ectomycorrhizal colonization of lodgepole pine and white spruce seedlings. **European Journal of Forest Pathology** 29: 123-134.

79. Reddy, M. S., L. M. Funk., D. C. Covert., D. N. He, and E. A. Pedersen. **1997**. Microbial inoculants for sustainable forests. **Journal of Sustainable Forestry** 5: 293-306.

80. Reddy, M. S., L. M. Funk., D.N. He, and E. A. Pedersen. **1996**. Status on commercial development of *Burkholderia cepacia* for biological control of fungal pathogens and growth enhancement of conifer seedlings for a global market. In: **Advances in Biological Control of Plant Diseases** (T. Wenhua, R. J. Cook and A. Rovira, eds.) pp. 21-29. China Agricultural University Press, Beijing, China, 399 p.

81. Reddy, M. S. **1996**. Status on commercial development of *Burkholderia cepacia* for biological control of fungal pathogens and growth enhancement of conifer seedlings for a global market. In: Landis, T.D., South, D. B., Tech. Coords. **National Proceedings, Forest and Conservation Nursery Associations. Gen. Tech. Rep. PNW-GTR-389**. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station: 235-244.

82. Pedersen, E. A. and M. S. Reddy. **1996**. Potential of Burkholderia cepacia as a biological control agent for multiple crops against damping-off and root rot pathogens. In: **Advances in Biological Control of Plant Disease**s (T. Wenhua, R. J. Cook and A. Rovira, eds.), pp. 89-93. China Agricultural University Press, Beijing, China, 399 p.

83. Kope, H., P. E. Axelrood., J. Sutherland, and M. S. Reddy. **1996**. Prevalence and incidence of the root-inhabiting fungi, *Fusarium*, *Cylindrocarpon* and *Pythium*, on container-grown Douglas-fir and Spruce seedlings in British Columbia. **New Forests** 12: 55-67.

84. Goyal, B. K., P. R. Verma., D. T. Spurr, and M. S. Reddy. **1996**. *Albugo candida* staghead formation in *Brassica juncea* in relation to plant age, inoculation sites, and incubation conditions. **Plant Pathology** 45: 787-794.

85. Reddy, M. S., P. E. Axelrood., R. Radley and R. J. Rennie. **1994**. Evaluation of bacterial strains for pathogen suppression and enhancement of survival and growth of conifer seedlings. In: **Improving Plant Productivity With Rhizosphere Bacteria** (M. H. Ryder, P. M. Stephens and G. D. Bowen, eds.), pp. 75-76. CSIRO Division of Soils, Adelaide, Australia. 288 p.

86. Reddy, M. S., D. C. Covert., K. A. Craig., R. J. Rennie., D. McKenzie., P. R. Verma and K. Mortensen. **1994**. Suppression of pre-emergence damping-off of canola, caused by *Rhizoctonia solani* by rhizobacteria. In: **Improving Plant Productivity With Rhizosphere Bacteria** (M. H. Ryder, P. M. Stephens and G. D. Bowen, eds.), pp. 80-82. CSIRO Division of Soils, Adelaide, Australia. 288 p.

87. Hynes, R. K., J. Hill., M. S. Reddy and G. Lazarovits. **1994**. Phytoalexin production by wounded white bean (*Phaseolus vulgaris*) cotyledons and hypocotyls in response to inoculation with rhizobacteria**. Canadian Journal of Microbiology** 40: 548-554.

88. Reddy, M. S., R. K. Hynes and G. Lazarovits. **1993**. Relationship between *in vitro* growth inhibition of pathogens and suppression of pre-emergence damping-off and post-emergence root rot of white bean seedlings in the greenhouse by bacteria. **Canadian Journal of Microbiology** 40: 113-119.

89. Reddy, M. S., J. E. Rahe and C. A. Levesque. **1992**. Influence of onion seed bacterization on germination and mycosphere microflora of *Sclerotium cepivorum* sclerotia. **Canadian Journal of Microbiology** 38: 1135-1143.

90. Reddy, M. S. and Z. A. Patrick**. 1992**. Colonization of tobacco seedling roots by a fluorescent Pseudomonad suppressive to black root rot caused by *Thielaviopsis basicola*. **Crop Protection** 11: 148-154.

91. Reddy, M. S., S. E. Campbell., S. E. Young and G. L. Brown. **1991**. Greenhouse evaluation of rhizobacteria for the suppression of crown and root rot of tomato caused by *Fusarium oxysporum f.sp. radicis- lycopersici*. In: **Plant Growth-Promoting Rhizobacteria Progress and Prospects** (C. Keel, B. Koller and G. Defago, eds.), pp. 39-44. Interlaken, Switzerland, 418 p.

92. Reddy, M. S. and Z. A. Patrick. **1991**. Effect of a fluorescent Pseudomonad on growth of tobacco seedlings and suppression of black root rot caused by *Thielaviopsis basicola.* In: **Plant Growth-Promoting Rhizobacteria Progress and Prospects** (C. Keel, B. Koller and G. Defago, eds.), pp. 23-29. Interlaken, Switzerland, 418 p.

93. Young, S. E., R. P. Pharis,. D. Reid., M. S. Reddy., R. Lifshitz and G. L. Brown. **1991**. PGPR: Is there a relationship between plant growth regulators and the stimulation of plant growth or biological activity?. In: **Plant Growth-Promoting Rhizobacteria Progress and Prospects** (C. Keel, B. Koller and G. Defago, eds.), pp.182-186. Interlaken, Switzerland, 418 p.

94. Reddy, M. S. and Z. A. Patrick. **1990**. Effect of bacteria associated with mushroom compost and casing materials on basidiomata formation in *Agaricus bisporus*. **Canadian Journal of Plant Pathology** 12: 236-242.

95. Bhaskara Reddy. M. V., H. S. Shetty and M. S. Reddy. **1990**. Mobility, distribution and persistence of metalaxyl residues in pearl millet (*Pennisetum americanum* (L.) Leek.). **Bulletin of Environmental Contamination and Toxicology** 45: 250-257.

96. Reddy, M. S. and Z. A. Patrick. **1989**. Effect of host, nonhost and fallow soil on populations of *Thielaviopsis basicola* and severity of black root rot. **Canadian Journal of Plant Pathology** 11: 68-74.

97. Reddy, M. S. and J. E. Rahe. **1989a**. Growth effects associated with seed bacterization not correlated with populations of *Bacillus subtilis* inoculant in onion seedling rhizospheres. **Soil Biology and Biochemistry** 21: 373-378.

98. Reddy, M. S. and J. E. Rahe. **1989b.** *Bacillus subtilis* B-2 and selected onion rhizobacteria in onion seedling rhizospheres: effects on seedling growth and indigenous rhizosphere microflora. **Soil Biology and Biochemistry** 21: 379-383.

99. Bhaskara Reddy, M. V., H. S. Shetty and M. S. Reddy. **1989.** Mobility and efficacy of metalaxyl against downy mildew of pearl millet growing in different types of soil. **International Journal of Tropical Plant Diseases** 7: 97-104.

100. Reddy, M. S. **1987**. Studies on the role of soil bacteria in the biology and control of onion white rot. **Ph. D. Thesis**. Simon Fraser University, British Columbia, Canada 116 pp.

101. Subba Reddi, C., A. Janaki Bai., E. U. B. Reddy., K. V. R. Raju and M. S. Reddy. **1980.** The ecology of anther dehiscence, pollen liberation and dispersal in *Xanthium strumarium* Linn. **Indian Journal of Ecology** 7: 171-181.

102. Reddi, E. U. B., M. S. Reddy and C. S. Reddi. **1980**. Observation on the pollination of *Kigelia pinnata* D. C. by bees. **Advanced Spore and Pollen Research** 7: 109-116.

103. Subba Reddi, C., E. U. B. Reddi and M. S. Reddy. **1979**. A novel mechanism of pollination in *Wrightia tinctoria* R. Br. 48: 746-747.

104. Greer, N. W., Palmateer, A. J., McLean, K. S., Reddy, M. S. and Kloepper, J. W. **2002**. Evaluation of plant growth-promoting rhizobacteria (PGPR) treated cotton transplants in Central Alabama, 2001. **Biological and Cultural Tests for Control of Plant Diseases (online).** Report 17:F07. DOI:10.1094/BC17. The American Phytopathological Society, St. Paul, MN.

105. Greer, N. W., Palmateer, A. J., McLean, K. S., Reddy, M. S. and Kloepper, J. W. **2002**. Evaluation of plant growth-promoting rhizobacteria for control of cotton seedling diseases in Central AL, 2001. **Biological and Cultural Tests for Control of Plant Diseases (online).** Report 17:F08. DOI:10.1094/BC17. The American Phytopathological Society, St. Paul, MN.

106. Greer, N. W., Palmateer, A. J., McLean, K. S., Reddy, M. S. and Kloepper, J. W. **2002**. Evaluation of plant growth promoting rhizobacteria for control of cotton seedling diseases in North Alabama, 2001. **Biological and Cultural Tests for Control of Plant Diseases (online).** Report 17:F09. DOI:10.1094/BC17. The American Phytopathological Society, St. Paul, MN.

107. Greer, N. W., Palmateer, A. J., McLean, K. S., Reddy, M. S. and Kloepper, J. W. **2002**. Evaluation of plant growth-promoting rhizobacteria (PGPR) treated cotton transplants in North Alabama, 2001. **Biological and Cultural Tests for Control of Plant Diseases (online).** Report 17:F10. DOI:10.1094/BC17. The American Phytopathological Society, St. Paul, MN.

108. Greer, N. W., Palmateer, A. J., McLean, K. S., Reddy, M. S. and Kloepper, J. W. **2002**. Evaluation of plant growth-promoting rhizobacteria for control of Pythium and Rhizoctonia in Central AL, 2001. **Biological and Cultural Tests for Control of Plant Diseases (online).** Report 17:F11. DOI:10.1094/BC17. The American Phytopathological Society, St. Paul, MN.

109. Greer, N. W., Palmateer, A. J., McLean, K. S., Reddy, M. S. and Kloepper, J. W. **2002**. Evaluation of plant growth-promoting rhizobacteria for control of Pythium and Rhizoctonia in North Alabama, 2001. **Biological and Cultural Tests for Control of Plant Diseases (online).** Report 17:F12. DOI:10.1094/BC17. The American Phytopathological Society, St. Paul, MN.

110. Reddy, M. S., S. P. Nightengale., J. Doyle, and J. W. Kloepper. **2001**. Evaluation of Ascend™ (*Glomus*), Recharge™ (*Azospirillum*) and PGPR for seedling disease control and growth promotion of cotton, 2000. **Biological and Cultural Tests for Control of Plant Diseases**

111. Reddy, M. S., S. P. Nightengale., J. Doyle, and J. W. Kloepper. **2001**. Evaluation of Recharge™ (*Azospirillum*) and PGPR for seedling disease control and growth promotion of cotton, 2000. **Biological and Cultural Tests for Control of Plant Diseases (online).** Report 17:F12. DOI:10.1094/BC17. The American Phytopathological Society, St. Paul, MN.

112. Reddy, M. S., R. A. Dawkins, and J. W. Kloepper. **2000**. Evaluation of biological preparations on root-knot severity and yield of tomato in Alabama, 1999. **Biological and Cultural Tests for Control of Plant Diseases (online).** Report 17:F12. DOI:10.1094/BC17. The American Phytopathological Society, St. Paul, MN.

113. Yan, Z., M. S. Reddy., J. Burkett, and J. W. Kloepper. **2000**. Evaluation of plant growth-promoting rhizobacteria (PGPR) for control of tomato early blight in the greenhouse and field, 1999. **Biological and Cultural Tests for Control of Plant Diseases** (online). Report 17:F12. DOI:10.1094/BC17. The American Phytopathological Society, St. Paul, MN.

SHORT PAPERS IN PROCEEDINGS

114. Nichols, A. J., J. W. Kloepper., M. S. Reddy, and G. Zehnder. **2002**. Cucumber beetle feeding as a marker to evaluate the compatibility of PGPR- and Actigard™-mediated induced resistance. **The Entomological Society of America Annual Meeting** Ref: D0769, San Diego, CA.

115. Domenech, J., M. S. Reddy., J. Gutierrez Mañero, and J. W. Kloepper. **2002**. Synergistic studies with LS213 and *Bacillus* and *Pseudomonas* species in biocontrol of tomato and pepper. **8th New Phytologist Symposium:** Impacts of Soil Microbes on Plant Population Dynamics and Productivity. 9-14th June 2000, Finland.

116. N.W. Greer, N. W., A. J. Palmateer., K.S. McLean., M. S. Reddy, and J. W. Kloepper. **2002**. Evaluation of plant growth-promoting rhizobacteria for control of cotton seedling diseases in North Alabama. **Cotton Research Report Series No. 22: 5-6.**

117. N.W. Greer, N. W., A. J. Palmateer., K. S. McLean., M. S. Reddy, and J. W. Kloepper. **2002**. Evaluation of plant growth-promoting rhizobacteria for control of cotton seedling diseases in Central Alabama. **Cotton Research Report Series No. 22: 6-7.**

118. N.W. Greer, N. W., A. J. Palmateer., K.S. McLean., M. S. Reddy, and J. W. Kloepper. **2002**. Evaluation cotton transplants treated with Plant Growth-Promoting Rhizobacteria in North Alabama. **Cotton Research Report Series No. 22: 8.**

119. N.W. Greer, N. W., A. J. Palmateer., K.S. McLean., M. S. Reddy, and J. W. Kloepper. **2002**. Evaluation cotton transplants treated with Plant Growth-Promoting Rhizobacteria in Central Alabama. **Cotton Research Report Series No. 22: 9.**

120. Nichols, A. J., J. W. Kloepper., M. S. Reddy, and G. Zehnder. **2001**. Cucumber beetle feeding as a marker to evaluate the compatibility of PGPR- and Actigard™-mediated induced resistance. The Entomological Society of America Annual Meeting Ref: D0769, San Diego, CA

121. Reddy, M. S., S. P. Nightengale., J. Doyle, and J. W. Kloepper. **2001**. Evaluation of Ascend DC™, Recharge™ , and PGPR 89B61 for seedling disease control and growth promotion of cotton. **Cotton Research Report Series No. 19: 6.**

122. Reddy, M. S., S. P. Nightengale., J. Doyle, and J. W. Kloepper. **2001**. Evaluation of Recharge™ (*Azospirillum*) and PGPR for seedling disease control and growth promotion of cotton. **Cotton Research Report Series No. 19: 7.**

123. Reddy, M. S., R**.** Rodriguez-Kabana., D. S. Kenney and J. W. Kloepper. **2000**. Approaches for enhancing PGPR-mediated ISR on various vegetable transplant plugs. **First International Symposium on Induced Resistance of Plant Diseases**. Greece, from 22-27 May, 2000.

124. Zehnder, G. W., J. F. Murphy., E. R. Sikora., M. S. Reddy, and J. W. Kloepper. **2000**. Application of biological agents for induced systemic resistance. **First International Symposium on Induced Resistance of Plant Diseases**. Greece, from 22-27 May, 2000.

125. Ryu, C. M., R. D. Locy., M. S. Reddy, and J. W. Kloepper. 2000. Induced resistance and growth promotion of Arabidopsis by various strains of rhizobacteria. **First International Symposium on Induced Resistance of Plant Diseases**. Greece, from 22-27 May, 2000.

126. Zhang, S., C. B. Lawrence., T. W. Bass., M. S. Reddy, and J. W. Kloepper. **2000**. Induced systemic resistance by rhizobacteria against tobacco blue mold disease is salicylic acid independent and not associated with activation of defense-associated genes. **First International Symposium on Induced Resistance of Plant Diseases**. Greece, from 22-27 May, 2000.

127. Reddy, M. S., C. M. Ryu., S. Zhang., Z. Yan., D. S. Kenney., R. Rodriguez-Kabana, and J. W. Kloepper. **2000**. Approaches for enhancing PGPR-mediated ISR on various vegetable transplant plugs. Auburn University WebSite, Available: http://www.ag.auburn.edu/argentina/pdfmanuscripts/reddy.pdf (accessed 12/04/00).

128. Reddy, M. S., C. M. Ryu., S. Zhang., Z. Yan, and J. W. Kloepper. **2000**. Aqueous formulations of plant growth promoting rhizobacteria for control of foliar pathogens. Auburn University Web Site, Available: http://www.ag.auburn.edu/argentina/pdfmanuscripts/reddy.pdf (accessed 12/04/00).

129. Enebak, S. A., M. S. Reddy, and J. W. Kloepper. **2000.** The use of plant growth-promoting rhizobacteria on the production of loblolly, slash and longleaf pine in bareroot and container nurseries in the southeastern United States. Auburn University Web Site, Available: http://www.ag.auburn.edu/argentina/pdfmanuscripts/enebak.pdf (accessed 12/04/00).

130. Yan, Z., C. M. Ryu., J. McInroy., M. S. Reddy, and J. W. Kloepper. **2000**. Effect of PGPR dosage on plant growth promotion and induced systemic resistance. Auburn University Web Site, Available: http://www.ag.auburn.edu/argentina/pdfmanuscripts/yan.pdf (accessed 12/04/00).

131. Kloepper, J. W., M. S. Reddy., R. Rodriguez-Kabana., D. S. Kenney., N. Martinez-Ochoa., N. Kokalis-Burelle, and K. Arthur. **2000**. Development of an integrated biological preparation for growth enhancement of various vegetable transplant plugs suppressive to plant

diseases. Auburn University Web Site, Available: http://www.ag.auburn.edu/argentina/pdfmanuscripts/kloepper.pdf (accessed 12/04/00).

132. Yan, Z., C. M. Ryu., J. McInroy., M. S. Reddy., F. Woods., M. Wilson, and J. W. Kloepper. **2000**. Induction of systemic resistance against tomato late blight by PGPR**.** Auburn University Web Site, Available: http://www.ag.auburn.edu/argentina/pdfmanuscripts/yan1.pdf (accessed 12/04/00).

133. Ryu, C. M., M. S. Reddy., S. Zhang., J. F. Murphy, and J. W. Kloepper. **2000**. Plant growth promotion of tomato by a biological preparation (LS213) and evaluation for protection against cucumber mosaic virus(CMV).Auburn University Web Site, Available:http://www.ag.auburn.edu/argentina/pdfmanuscripts/ryu.pdf (accessed 12/04/00).

134. Zhang, S., C. B. Lawrence., T. W. Bass., M. S. Reddy, and J. W. Kloepper. **2000**. Induced systemic resistance by rhizobacteria against tobacco blue mold disease is salicylic acid independent and not associated with activation of defense-associated genes. Auburn University Web Site, Available: http://www.ag.auburn.edu/argentina/pdfmanuscripts/zhang.pdf (accessed 12/04/00).

PUBLISHED ABSTRACTS

Krishna Kumar, V., M. Reddy., J. W. Kloepper., K. S. Lawrence., S. Krishnam Raju., D. Groth and M. Miller. **2010**. Field efficacy of *Bacillus subtilis* MBI 600 (Integral^{R}) for managing rice sheath blight caused by *Rhizoctonia solani*. American Phytopathological Society.

Zhou, X., K. Kumar., M. Reddy., J. Kloepper and S. Zhang. **2010.** Screening of bacterial antagonists for suppression of sheath blight in rice. American Phytopathological Society.

Vijay Krishna Kumar. K., S. Krishnam Raju., M. S. Reddy., J. W. Kloepper and K. K. Lawrence. **2009**. Evaluation of commercially available plant growth-promoting rhizobacteria (PGPR) and plant extracts on sheath blight disease of rice caused by *Rhizoctonia solani.* American Phytopathological Society, Southern Division.

Kloepper, J. W., M. S. Reddy., C. M. Ryu, and J. Murphy. **2003**. Induction of host defenses and plant growth promotion by *Bacillus* spp. American Phytopathological Society.

Reddy, M. S., R. Rodriguez-Kabana., D. S. Kenney., C. M. Ryu., S. Zhang., Z. Yan., N. Martinez-Ochoa, and J. W. Kloepper. **1999.** Growth promotion and induced systemic resistance (ISR) mediated by a biological preparation. **Phytopathology** 89: S65.

Kenney, D. S., M. S. Reddy, and J. W. Kloepper. **1999**. Commercial potential of biological preparations for vegetable transplants. **Phytopathology** 89: S39.

Kloepper, J. W., R. Rodriguez-Kabana., D. S. Kenney., M. S. Reddy., N. Martinez-Ochoa., N. Kokalis-Burelle, and K. Arthur. **1999**. Development of an integrated biological approach to develop transplants suppressive to various plant diseases. **Phytopathology** 89: S40.

Ryu, C. M., M. S. Reddy., S. Zhang., J. F. Murphy, and J. W. Kloepper. **1999**. Plant growth promotion of tomato by a biological preparation (LS213) and evaluation for protection against cucumber mosaic virus. **Phytopathology** 89: S67.

Yan, Z., M. S. Reddy., Q. Wang., R. Mei, and J. W. Kloepper, J. W. **1999**. Role of rhizobacteria in tomato early blight control. **Phytopathology** 89:S87.

Zhang, S., M. S. Reddy., C. M. Ryu, and J. W. Kloepper. **1999**. Relationship between *in vitro* and *in vivo* testing of PGPR for induced systemic resistance against tobacco blue mold. **Phytopathology** 89: S89.

Kloepper, J. W., M. S. Reddy., C. M. Ryu, and J. M. Murphy. **1999**. Use of beneficial rhizobacteria to enhance growth and induce systemic disease protection in transplants. **Hort Science** 34: 653.

Enebak, S. A. and M. S. Reddy. **1999**. Seedling and shoot growth of three southern pine species is enhanced with the addition of bacterial amendments to potting media. **Phytopathology** 89: S24.

He, D. N., E. A. Pedersen., L. M. Funk, and M. S. Reddy. **1997**. Root colonization and growth promotion of various conifer species by *Burkholderia cepacia* strain Ral-3. **Canadian Journal of Plant Pathology** 19: 110.

Funk, L. M., D. N. He., E. A. Pedersen, and M. S. Reddy. **1997**. Optimization of product delivery for a microbial inoculant, *Burkholderia cepacia*, for commercial use in the forestry industry. **Canadian Journal of Plant Pathology** 19: 108.

Covert, D. C., E. A. Pedersen., L. M. Funk., N. Seresinhe., M. S. Reddy, and G. L. Brown. **1997**. Influence of storage conditions on the stability and shelf-life of bacterial inoculants with commercial potential and their activity towards fungal pathogens. **Canadian Journal of Plant Pathology** 19: 107.

Pedersen, E. A., L. M. Funk, and M. S. Reddy. **1997**. A potential biological control agent for damping-off and root rot diseases of multiple crops. **Canadian Journal of Plant Pathology** 19: 114.

Pedersen, E. A., D. N. He., C. D. Neiser, and M. S. Reddy. 1997. Biological control of damping-off diseases of conifers by *Burkholderia cepacia* strain Ral-3. **Canadian Journal of Plant Pathology** 19: 115.

Hanson, K. G. and M. S. Reddy. 1997. Biological control properties of chemical compatible *Pseudomonas fluorescens* and *Burkholderia cepacia*. **Canadian Journal of Plant Pathology** 19: 110.
Neiser, C. D., E. A. Pedersen, and M. S. Reddy. 1997. Influence of various abiotic factors related to commercial development of a microbial inoculant, *Burkholderia cepacia*, for use in forestry. **Canadian Journal of Plant Pathology** 19: 114.

Pastula, C. L., C. D. Neiser., L. M. Funk., E. A. Pedersen, and M. S. Reddy. 1997. Preliminary investigations on the modes of action of biological control agents: *Burkholderia cepacia* strains Ral-3 and Ral-3R and *Pseudomonas areofaciens* strain 63-28. **Canadian Journal of Plant Pathology** 19: 114.

Reddy, M. S., S. E. Young., R. J. Rennie., L. J. Duczek., K. Mortensen and R. Horton. 1992. Rhizobacterial suppression of common root rot of spring wheat caused by *Cochliobolus sativus*. **Phytopathology** 82: 1120.

Young, S. E., M. S. Reddy., G. L. Brown, and R. J. Rennie. Biological activities induced by rhizobacteria and their influence on spring wheat yield. 1992. **Phytopathology** 82: 1171.

Campbell, S. E., M. S. Reddy, and G. L. Brown. 1992. Delivery, persistence and efficacy of *Pseudomonas fluorescens* 63-28 as a commercial biocontrol agent for greenhouse grown cucumbers**.** **Canadian Journal of Plant Pathology** 14: 239.

Covert, D. C. and M. S. Reddy. 1992. Effect of the formulation carriers on shelf-life of bacteria and their interactions with soil-borne plant pathogens. **Canadian Journal of Plant Pathology** 14: 239.

Reddy, M. S., S. E. Campbell., S. E. Young, and G. L. Brown. 1991. Commercial potential of rhizobacteria for the suppression of crown and root rot of tomato caused by *Fusarium oxysporum f. sp. radicis-lycopersici* (FORL). **Phytopathology** 81: 1178.

Reddy, M. S., S. E. Campbell., S. E. Young, and G. L. Brown. 1991. Role of rhizobacteria in greenhouse mix for the suppression of damping-off of cucumber seedlings caused by *Pythium ultimum*. **Canadian Journal of Plant Pathology** 13: 284.

Hynes, R. K., J. Hill., M. S. Reddy, and G. Lazorovits. 1991. Influence of rhizobacteria on the induction of phytoalexins in cotyledons of white bean. **Canadian Journal of Plant Pathology** 13: 278.

Reddy, M. S., S. E. Young, and G. L. Brown. 1990. Biological control of root rot and pre-emergence damping-off of white bean with plant growth-promoting rhizobacteria. **Phytopathology** 80: 992.

Tipping, E. M., S. E. Campbell., E. Onofriechuk., S. E. Young, and M. S. Reddy. 1990. Selection of rhizobacteria for control of *Pythium ultimum* on cucumber for greenhouse application. **Phytopathology** 80: 1050.

Reddy, M. S. and Z. A. Patrick. 1989. Influence of bacteria in mushroom compost and casing on sporophore production by *Agaricus brunnescens*. **Canadian Journal of Plant Pathology** 11: 198.

Reddy, M. S. and Z. A. Patrick. 1989. Suppressing effect of rye cover crop on incidence and severity of black root rot of tobacco caused by *Thielaviopsis basicola*. **Phytopathology** 78: 1544.

Reddy, M. S. and J. E. Rahe. **1986**. Effect of onion seed bacterization on the germination of sclerotia of *Sclerotium cepivorum* in muck soil. Pages 52-56, in A. R. Entwistle, eds., **Onion White Rot Caused by *Sclerotium cepivorum***. T. W. Printing Associates Ltd., Leamington Spa, UK

Reddy, M. S. and J. E. Rahe. **1986**. Rhizosphere colonization and biological effects related to bacterization of onion seeds with *Bacillus subtilis* B-2. **Canadian Journal of Plant Pathology** 8: 354.

Reddy, M. S. and J. E. Rahe. **1985**. Effect of onion seed bacterization on the germination of *Sclerotium cepivorum* in muck soil. **Canadian Journal of Plant Pathology** 7: 448.