

Dr. M. S. REDDY

*Department of Entomology & Plant Pathology
211 Life Sciences Building
Auburn University
Auburn, Alabama 36849-5409
Email: munagr@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 Rabepazole 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. Niranjana., 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 *Arabidopsis*. **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. Niranjana Raj, S., Deepak, S. A., Chaluvaram, 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. Niranjana Raj, S., Chaluvaram, 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. Chaluvvaraju., 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. Niranjana., 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.
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