

# CURRICULUM VITAE

## **Dr. VELUSAMY SRINIVASAN**

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**FOCUS AREA:** Antibiotic resistance in Foodborne and animal pathogens

## **EDUCATION**

- PhD from the Centre for Advanced Studies in Botany, University of Madras, Chennai, India - Bioremediation of metal polluted soil using mycorrhizal fungi.
- Master of Philosophy 1994 (Botany) at Centre for Advanced Studies in Botany, University of Madras, Chennai, India
- Master of Science 1993 (Botany) at Bharathiar University, Coimbatore, India
- Bachelor of Science 1991 (Botany) at Bharathiar University, Coimbatore, India.

## **RESEARCH INTERESTS**

- Prevalence of antimicrobial resistant bacteria and antimicrobial resistance genes in foodborne pathogens, *Listeria monocytogenes*, *Campylobacter jejuni*, *Escherichia coli* O157: H7, O157, O26 and *Salmonella* from dairy farm environment and food.
- Characterization of antimicrobial resistance pattern of Enterobacteriaceae isolated from dairy farm soils.
- Antimicrobial resistance pattern of *Escherichia coli* and *Staphylococcus* spp. isolated from cows with mastitis.
- Detection of foodborne pathogens (*L. monocytogenes*, *C. jejuni* and *Salmonella* spp.) from dairy farm environmental samples using Real Time PCR.

## PROFESSIONAL EXPERIENCE

- Postdoctoral Research Associate, Food Safety Center of Excellence, The University of Tennessee, April 2003 – Present
- Postdoctoral research fellow, Ecologie Microbienne (Microbial Ecology), UMR CNRS 5557, Université Lyon 1, Lyon, France, February 2002 - January 2003
- Research Scholar, Center for Advanced Studies in Botany, University of Madras, Chennai 600 025, India

## AWARDS

- 2003 Postdoctoral Research Associate in UT Food Safety Center of Excellence, The University of Tennessee, Knoxville, TN, USA
- 2002 Post doctoral fellow in Institut National de la Recherche Agronomique (INRA), Ecologie Microbienne, University of Lyon 1, Lyon, France
- 1997-99 Research Fellowship, Indian Council for Forest Research and Education (ICFRE) project entitled, "Enhanced survivability of tissue cultured neem plants by mycorrhizal fungi"
- 1995-96 Research Fellowship, Indian Council of Agricultural Research, (ICAR) project entitled, "Studies on the Management of agro- forestry tree nursery for mass propagation of tree seedlings by rhizobial, frankial and mycorrhizal inoculation and nursery tree seedlings disease control".

## PUBLICATIONS

1998. Raman, N., K. Periasamy and **V. Srinivasan**. Production of alginate bead of *Laccaria laccata* and its effects on growth of *Eucalyptus tereticornis*. Indian J. Exp. Biol. 36: 628-630.

1998. Raman, N., M. Ravi and **V. Srinivasan**. Effect of Copper and Nickel on phosphatase activity and growth of an ectomycorrhizal fungus, *Amanita muscaria*. Indian J. Env. Heal. 40: 197-202.

2002. Raman, N., **V. Srinivasan** and M. Ravi. Effect of Chromium on axenic growth and phosphatase activity of ectomycorrhizal fungi, *Laccaria laccata* and *Suillus bovinus*. Bull. Environ. Cont. Toxicol. 68: 569-575.

2002. Raman, N., C. Sahadevan and **V. Srinivasan**. Multiplication of VAM fungi by root organ culture of *Sorghum vulgare* and *Saccharum officinarum* in vitro. Indian J. Exp. Biol. 39: 1293-1298.

2004. **Srinivasan, V.**, H. M. Nam, L.T. Nguyen, B. Tamilselvam, S. E. Murinda and S. P. Oliver. Prevalence of antimicrobial resistance genes in *Listeria monocytogenes* isolated from dairy farms. Foodborne Pathog. Dis. (Communicated).

2004. Nam, H. M., **V. Srinivasan**, S. E. Murinda and S. P. Oliver. Specific detection of *Campylobacter jejuni* in dairy farm environmental samples using SYBR Green Real Time PCR. Appl. Environ. Microbiol. (Communicated).

2004. Nam, H. M., **V. Srinivasan**, B. E. Gillespie, S. E. Murinda and S. P. Oliver. 2004. Application of SYBR Green Real-time PCR assay for specific detection of *Salmonella* spp. in dairy farm environmental samples. Int. J. Food Microbiol. (Communicated).

## PAPERS PRESENTED IN CONFERENCES

1995. Raman, N., **V. Srinivasan** and M. Gnanaguru. Electrophoretic patterns of soluble proteins and their possible use of as taxonomic criteria in ectomycorrhizal fungi. In: National conference on Mycorrhizal Technology, Centre for Advanced Studies in Botany, University of Madras, 17-18, March, 1995. p 25.

1998. Raman, N. and **V. Srinivasan**. Reclamation of tannery effluent polluted soils with *Eucalyptus tereticornis* inoculated with an ectomycorrhizal fungus, *Pisolithus tinctorius*. In: International Conference on Environmental Contamination, Toxicology and Health, Hong Kong Baptist University, Hong Kong, September, 23-25, 1998, pp.30-31.

1999. Raman, N., M. Govindarajan, A. Radha and **V. Srinivasan**. Antimicrobial Activity of *Clausena dentata*. In: 20th Annual Conference of Indian Association of Biomedical Scientists, Sri Ramachandra Medical College & Research Institute, October, 1-3, 1999, pp. 49.

2000. Raman, N. and **V. Srinivasan**. Bioaccumulation of aluminium by an ectomycorrhizal fungus, *Pisolithus tinctorius*. In: National Symposium on Microbes in bioremediation for an eco-friendly environment in the new millenium, Centre for Advanced Studies in Botany, University of Madras, Chennai, 6-7, January, 2000.

2000. Raman, N., V. Chandrasekaran, S. Sukumaran, **V. Srinivasan**, C.Jaganathan and B.Mahendran. Bioremediation of tannery effluent of CETP at Pallavaram, Chennai. In: National symposium on microbes in bioremediation for an eco-friendly environment in the new Millenium, Centre for Advanced Studies in Botany, University of Madras, Chennai, 6-7, January, 2000.

2000. Raman, N., C. Sahadevan and **V. Srinivasan**. Conservation of biodiversity by tissue culture and VAM inoculation. In: Workshop on Conservation of Biodiversity and Community Participation, Indian Environmental Society, New Delhi, March 13-14, 2000.

2000. Raman, N., C. Sahadevan and **V. Srinivasan**. Simplifying the hardening process of organogenesis plants of sugarcane (*Saccharum officinarum*) by VAM. In: National Symposium on Prospects and Potentials of Plant Biotechnology in India in the 21st Century held at Jai Narain Vyas University, Jodhpur, October, 18-21,2000.

2000. Raman, N., **V. Srinivasan**, B. Mahendran and M. Shunmuga sundaram. A new technology for potential seeds of *Eucalyptus tereticornis* with mycorrhizal fungus in alginate gel. In: National Symposium on Prospects and Potentials of Plant Biotechnology in India in the 21st Century to be held at Jai Narain Vyas University, Jodhpur, October, 18-21,2000.

2000. Raman, N., M. Gnanaguru and **V. Srinivasan**. Biocontrol of fusarial wilt of tomato by VA mycorrhizal fungus, *Glomus fasciculatum*. In: Workshop on biocontrol of plant pathogenic fungi and bacteria, University of Sevilla, Sevilla, Spain, 30th Nov to 3rd Dec.

2001. Raman, N., **V. Srinivasan**, B. Mahendran, V. Chandrasekaran, S. Sukumar and C. Jaganathan. Biotreatment of tannery effluent by microbes. National Seminar on Environmental Pollution Impacts, Remediation and Management, Jawaharlal Nehru Technological University, Hyderabad, 6-7 July 2001.

2001. Raman, N., C. Sahadevan and **V. Srinivasan**. Root organ culture of *Sorghum vulgare* and *Saccharum officinarum* *in vitro* for multiplication AM fungi. In: 6th Symposium of the International Society of Root Research. Nagoya, Japan, 11-15 November 2001. p. 601-602.

2004. Schukken, Y. H., B. Dogan, S. Klaessig, K. Simpson, R. Almeida, **V. Srinivasan**, B.E.Gillespie and S.P.Oliver. Chronic and recurrent coliforms: Implications for lactation therapy. In: NMC 43<sup>rd</sup> Annual Meeting Proceedings, Charlotte, NC, USA, 1-4 February, 2004, pp.35-40.

2004. Tamilselvam, B., **V. Srinivasan**, D. A. Luther, R. A. Almeida and S. P. Oliver. Identification of  $\beta$ -defensin genes in bovine mammary epithelial cells. In: In: NMC 43<sup>rd</sup> Annual Meeting Proceedings, Charlotte, NC, USA, 1-4 February, 2004, pp. 367-368.

2004. **Srinivasan, V.**, H. M. Nam, L. T. Nguyen, B. Tamilselvam, S. E. Murinda and S. P. Oliver. Prevalence of antibiotic resistance genes and integrons in foodborne pathogens isolated from dairy farms. In: NMC 43<sup>rd</sup> Annual Meeting Proceedings, Charlotte, NC, USA, 1-4 February, 2004, pp. 369-370.

2004. **Srinivasan, V.**, B. E. Gillespie, L. T. Nguyen, M. J. Lewis, Y. H. Schukken and S. P. Oliver. Phenotypic and genotypic antibiotic resistance patterns of *Escherichia coli* isolated from dairy cows with mastitis. In: NMC 43<sup>rd</sup> Annual Meeting Proceedings, Charlotte, NC, USA, 1-4 February, 2004, pp. 371-372.

2004. **Srinivasan, V.**, B. Tamilselvam, H. M. Nam, L. T. Nguyen and S. P. Oliver. Prevalence of antibiotic resistant bacteria and antibiotic resistance genes in soil from dairy farms. In: NMC 43<sup>rd</sup> Annual Meeting Proceedings, Charlotte, NC, USA, 1-4 February, 2004, pp. 373-374.

## **CHAPTERS IN BOOK**

2002. N. Raman and **V. Srinivasan**. Application of mycorrhiza in reclamation of wastelands and adverse areas. In: 'Mycorrhiza' (Ed. V.S.Mehrotra), The Allied Publications Ltd., New Delhi. (In press)

2002. N. Raman, M. Gnanaguru and **V. Srinivasan**. Biocontrol of plant pathogens by arbuscular mycorrhizal fungi for sustainable agriculture. In Bioinoculants for sustainable agriculture and forestry. Eds. S. M. Reddy, S. Ram Reddy, M. A. Singarachary & S. Girisham. Scientific Publishers (India), Jodhpur. pp. 153

#### **WORKSHOPS/ SEMINARS ATTENDED**

- Workshop on DNA-Technologies at Centre for Cellular and Molecular Biology, Hyderabad, India from 5-20, February, 1996.
- Seminar on Quality assurance of environmental analysis at Centre for Environmental Studies, Anna University, Chennai, India on 18, December, 1999.
- Workshop on Conservation of Biodiversity and community participation, Indian Environmental Society, New Delhi, India from 13-14, March, 2000.