Curriculum VITAE

Name: **T. S. SURYANARAYANAN, M.Sc., Ph.D.**

Address:

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PERSONAL INFORMATION

Date of birth:	July 25, 1951
Nationality:	Indian

EDUCATION

Ph.D., (Botany)		1979	University of Madras
Title of thesis: ***Studies on photosporogenesis in some fungi***			
Post M.Sc. Diploma	Mycology & Plant Pathology	1974	University of Madras
M.Sc.,	Botany	1973	University of Madras
B.Sc.,	Botany	1971	University of Madras

TEACHING EXPERIENCE

1978 December – July 2009: PG & Research Department of Botany, Ramakrishna Mission Vivekananda College, Chennai 600 004. Teaching Mycology, Plant Physiology, Plant Ecology and Plant Pathology.

Conducted workshop in Mycology for graduate students at Arizona State University, Tempe, Arizona (May 2004),University of Sao Paulo and .

A BRIEF NOTE OF ACHIEVEMENTS

- Awarded Fulbright Fellowship for studying ***Fungi associated with cacti of Sonoran Desert*** at Arizona State University, Tempe, USA, May – July, 2004

- Honorary Research Associate, Fredericton and St. John Campuses and University of New Brunswick, Saint John, Canada (2004-2007).
- Honorary Research Associate, University of Muenster, Germany.

- **Prof. Sidney Altman, Nobel Laureate (**1989) and Sterling Professor of molecular biology, Yale University, visited my lab on april 26th 2008, and discussed with students and gave a lecture on his field of research.

- Invited to give the Key Note Address at 25th Genetics of Microorganisms Congress, São Paulo, Brazil, March 2006.

- Guided 12 Ph.D and 30 M.Phil students

- Conducted 10 Research Project (Total: More than 1 crore Rupees)
- International Research Collaborations with Universities in USA, Canada and Germany.
- Research publications cited in *Nature, PNAS* etc. 'H' INDEX = 18

RESEARCH GRANTS

Ongoing and completed

2012-2015 – Department of Biotechnology (Government of India), Twinning Programme - North East grant for the project **"Endophytic fungi of endemic plants of Arunachal Pradesh: Diversity and novel metabolites". (Rs.14.80 lakhs)**

2011-2014 – Principle Investigator - Indo–German Collaborative Project (in collaboration with University of Goettingen, Germany) - Department of Biotechnology (Government of India) research grant for the project "***The potential of fungal endophytes as biocontrol organisms***". **(Rs. 36.59 lakhs)**

2008-2011 – Principal Investigator, Department of Biotechnology (Government of India), research grant for the project ***Pharmaceuticals from marine and marine-derived fungi assocaited with seagrasses and seaweeds of Tamil Nadu coast.*** **(Rs. 15.09 lakhs)**

2007-2010 – Indian Investigator. Indo-German Collaborative Project (in collaboration with University of Muenster, Germany) - Department of Biotechnology (Government of India) research grant for the project ***Enzymes of pharmaceutical importance from tropical microfungi.*** **(Rs. 27.84 lakhs)**

2006-2009 – Principal Investigator. Ministry of Environment & Forests (Government of India) research grant for the project ***Diversity of microfungi in leaf litter of different forests of the Western Ghats.*** **(Rs. 12.6 lakhs)**

2005-2008 – Indian Investigator, Indo-American Collaborative Project ***Multiscale analysis of tropical fungal diversity: Cryptic fungal symbionts of tropical forest trees*** (in collaboration with Dr. A. Elizabeth Arnold, University of Arizona) funded by the Center for Tropical Forest Science, Smithsonian Tropical Research Institute. (Funds only for travel to USA for the Investigator & Student)

2005-2008 – Principal Investigator. Indo-German Collaborative Project (in collaboration with GBF, Braunschweig, Germany) - Department of Biotechnology (Government of India) research grant for the project ***Screening tropical endophytes for novel secondary metabolites.*** **(Rs. 24.95 lakhs)**

2000-2003 – Principal Investigator. Ministry of Environment & Forests (Government of India) research grant for the Project ***Diversity of fungal endophytes of tropical forest trees in Western Ghats***. **(Rs. 9.31 lakhs)**

1997-1999 – Principal Investigator. World Bank funded research project on ***Fungal endophytes of mangrove and mangrove associates of Pichavaram forest***. **(Rs. 3.41 lakhs)**

1995-1998 – Principal Investigator. Ministry of Science & Technology (Government of India) research grant for the project ***Fungal endophytes of forage grasses and forest trees***. **(Rs. 4.94 lakhs)**

1987-1990 – Principal Investigator. Ministry of Environment & Forests (Government of India) research grant for the project ***Studies on the occurrence of microflora in oil-stressed soils of a petroleum refinery***. **(Rs. 2.78 lakhs)**

1983-1986 – Co-Investigator. Council of Scientific & Industrial Research project on ***Effect of metal ions, metal complexes and ligands on detergent-influenced biological inhibitions***.

RESEARCH EXPERIENCE

30 years research experience in Mycology.

- Supervised the research work of 30 M.Phil. students and 12 Ph.D. students of the Madras University. Currently supervising the research of 1 Ph.D. student.
- Produced the first M.Phil. Botany student of our College
- Produced the first Botany Ph.D. stduent of our College
- Published the First Research paper of the Department
- Published the first International research Publication of the Department
- Obtained the first research grant for the Department

MEMBERSHIP IN SCIENTIFIC SOCIETIES

British Mycological Society
Mycological Society of India
Council Member, Mycological Society of India 1996-1998

EDITORIAL RESPONSIBILITY

Associate Editor, *Mycology*, Mycological Society of China (2011)

Member of the Editorial Board of *Kavaka,* the official journal of Mycological Society of India 1999-2002.

Reviewed manuscripts for journals like *Mycological Researc (BRITISH), Mycologi (USA),, Mycopathologi (GERMAN), Botanica Marina (GERMAN), Fungal Diversit (HOMNG KONG), Current Science, Indian Journal of Marine Science.*

DISTINCTIONS AND HONORS

Prof. Sidney altman, nobel laureate (1989) and sterling professor of molecular biology, yale UNIVERSITY, visited my lab on April 26th 2008, and discussed with students and gave a lecture on his field of research.

Awarded Fulbright Nehru Senior Fellowship to conduct research for 6 months on study the feasibility of using endophytic fungi for biofuel generation. The research was conducted in collaboration with Prof. Venkat Gopalan, Dept. of Biochemistry, The Ohio State University September-March, 2012.

Awarded **Fulbright** Fellowship for studying ***Fungi associated with cacti of Sonoran Desert*** at Arizona State University, Tempe, USA, May – July, 2004

Honorary **Research Associate**, Fredericton and St. John Campuses, University of New Brunswick, Saint John, **Canada** (2004-2007).

Research Supervisor, University of Muenster, Germany.

Visiting Scientist, Department of Molecular Pathology, Georg August University, Gottingen. Germany,1st to 21st, Sept., 2008.

Elected Fellow of the Madras Science Foundation

Awarded Indian National Science Academy's Visiting Fellowship 1992-1993

Resource person in workshop and refresher courses for college teachers conducted by Institutes and Universities such as National Institute of Oceanography, Goa, University of Madras, Bharathiar University

Nominated to the Executive Committee, Madras Science Association, 2001

MEMBERSHIP OF ADVISORY COMMITTEE

Member, National Biodiversity Strategy & Action Plan - constituted by Ministry of Environment & Forests and funded by the UNDP.

Member, P G Board of Studies (Botany), Univ. Madras, 2005-2008

University Nominee: Subject Expert - Academic Council of Stella Maris College, Chennai.

Member of the Board of studies in Microbiology (UG & PG) – Bharathidasan University, Tiruchirappalli.

INVITED LECTURES

Fungal Endophytes: Ecology and Economic Potential. – Helmholtz Centre for Infection Research, Braunschweig, **Germany**. May 2007.

Ecology of fungal endophytes: contribution from VINSTROM. – Plant Pathology Seminar, University of Arizona, Tucson, Arizona, **USA**, November 2006.

Tropical Fungal Endophytes: ecological insights gained from forests of Southern India – 25th Genetics of Microorganisms Congress, São Paulo, **Brazil**, March 2006.

Fungal Endophytes: Can we afford to take them for granted? – Shome Memorial Lecture at the Annual Mycological Society of India meeting, Bangalore, February 2006.

Tropical Endophytes: An Ecologist's Perspective – Technical University of Braunschweig, **Germany**, November 2005

Biotechnological Potential of Fungal Endophytes: An Overview – Pipe line Seminar at the German Research Centre for Biotechnology, Braunschweig, **Germany**, November, 2005.

Endophytes of Sonoran Cacti - School of Life Sciences, Arizona State University, **USA**. 2004

Fungal endophytes of the mangrove Rhizophora apiculata – Asian Mycological Congress, **Hong Kong**, 2000

Diversity of endophytes in tropical forests: the Western Ghats experience – 3rd Asia-Pacific Mycological Congress on Biodiversity and Biotechnology, 2002, Kunming, **China**.

Endophytes as indicators of fungal biodiversity: A case study – 4th Asian Mycological Congress, 2004, Chiang Mai, Thailand.

The biology of a cryptic guild of fungi - BIOTEC, Bangkok, **Thailand.**

Studies on endophytes of a dry deciduous forest - Centre for Ecological Sciences, Indian Institute of Science, Bangalore, India

Fungal Biotechnology - Department of Biotechnology, Indian Institute of Technology, Chennai

Development and maintenance of turgor in a marine fungus - Centre for Cellular & Molecular Biology, Hyderabad, India

Fungal endophytes of the tropics – A joint lecture with Prof. J.A. Johnson, University of New Brunswick, Canada - Centre for Advanced Studies in Botany, University of Madras

Fungal endophytes: An untapped gene pool – Under the DAAD Programme for Indo-German science collaboration – Indian Institute of Technology, Chennai.

COLLABORATIONS

Pharmaceuticals from marine and marine-derived fungi assocaited with seagrasses and seaweeds of Tamil Nadu coast – Prof. Mukesh Doble, Dept. of Biotechnology, IIT Madras.

Enzymes of pharmaceutical importance from tropical microfungi - Prof. Bruno Moerschbacher, Department of Plant Biochemistry, Westphalian Wilhelm's University Muenster, Germany.

Novel secondary metabolites of fungal endophytes - Dr. Florenz Sasse, Helmholtz Centre for Infection Research, Braunschweig, Germany 2005-2008

Fungal endophytes of Arizona cacti – Prof. Stan Faeth, School of Ecological Sciences, Arizona State University, USA.

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Fungal endophytes of mangrove plants – Prof. John Johnson, University of New Brunswick, St. John, Canada.

Fungal diversity in Western Ghats – Prof. R. Sukumar, Centre for Ecological Sciences, Indian Institute of Science, Bangalore

Rice and lichen endophytes – MS Swaminathan Research Foundation, Chennai.

Molecular studies on fungal endophytes – Dr. Reddy, Thapar Research Institute, Patiala.

PUBLICATIONS

48 of the publications Cited : 242 times

Average Citations per Item : 5.04 - H factor : 18

Published 90 research papers in National and International Journals

Published 12 book chapters and abstracts in 48 symposium proceedings.

LIST OF PUBLICATIONS

1. Govinda Rajulu, M.B., Thirunavukkarasu, N., Babu, A.G., Aggarwal, A. , Suryanarayanan, T.S. and Reddy, M.S. 2013. Endophytic Xylariaceae from the forests of Western Ghats, southern India: distribution and biological activities. *Mycology: An International Journal on Fungal Biology* DOI:10.1080/21501203.2013.776648.

2. Sachin N, Manjunatha BL, Mohana Kumara P, Ravikanth G, Shweta S, Suryanarayanan TS, Ganeshaiah KN, Uma Shaanker R. 2013. Do endophytic fungi possess pathway genes for plant secondary metabolites? *Current Science* **104**: 178-182

3. Suryanarayanan T.S. 2012. The diversity and importance of fungi associated with marine sponges, *Botanica Marina* **55:** 553–564.

4. Thirunavukkarasu, N., Suryanarayanan, T.S., Girivasan, K.P., Venkatachalam, A., Geetha, V., Ravishankar, J.P., and Doble, M. (2012). Fungal symbionts of marine sponges from Rameswaram, southern India: species composition and bioactive metabolites. *Fungal Diversity* **55**:37-46.

5. Suryanarayanan, T.S., Thirunavukkarasu, N., Govinda Rajulu, M.B. and Venkat Gopalan (2012). Fungal endophytes: An untapped source of biocatalysts. *Fungal Diversity* **54**:19–30.

6. Suryanarayanan, T.S., Venkatachalam, A. and Govinda Rajulu, M.B. (2011). A comparison of endophyte assemblages in transgenic and non-transgenic cotton plant tissues. *Current Science* **101**:1472-1474.

7. Suryanarayanan, T.S., Govinda Rajulu, M.B, Thirumalai, E.,Reddy, M.S. and Money, N.P. (2011). Agni's fungi: heat-resistant spores from the Western Ghats, southern India. *Fungal Biology* **115**: 833-838.

8. Thirunavukkarasu, N., Suryanarayanan, T.S., Murali, T.S., Ravishankar, J.P., Gummadi, S.N. (2011). L-asparaginase from marine derived fungal endophytes of seaweeds. *Mycosphere* **2**:147–155.

9. Suryanarayanan, T.S., Murali, T.S., Thirunavukkarasu, N., Govinda Rajulu, M.B., Venkatesan, G., Sukumar, R. (2011). Endophytic fungal communities in woody perennials of three tropical forest types of the Western Ghats, southern India. *Biodiversity and Conservation* **20**: 913-928.

10. Govinda Rajulu, M.B., Thirunavukkarasu, N., Suryanarayanan, T.S., Ravishankar, J.P., El Gueddari, N.E. and Moerschbacher, B.M. (2011). Chitinolytic enzymes from endophytic fungi. *Fungal Diversity* **47***:*43-53.

11. Suryanarayanan, T.S., Ravishankar, J.P., Muruganandam V. (2010). Drug discovery: going with the tide. *Current Science* **99**:1308.

12. Suryanarayanan, T.S., Venkatachalam, A., Thirunavukkarasu, N., Ravishankar, J.P., Doble, M. and Geetha, V. (2010) Internal mycobiota of marine macroalgae from the Tamilnadu coast: distribution, diversity and biotechnological potential. *Botanica Marina* **53**:456-468.

13. Suryanarayanan, T.S., Thirunavukkarasu, N., Govindarajulu, M.B., Sasse, F., Jansen, R. and Murali, T.S. (2009). Fungal Endophytes and Bioprospecting. *Fungal Biology Reviews* **23**: 9-19.

14. Priti, V., Ramesha, B.T., Shweta Singh, Ravikanth, G., Ganeshaiah, K.N., Suryanarayanan, T.S. and Uma Shaanker, R. (2009). How promising are endophytic fungi as alternative sources of plant secondary metabolites? *Current Science* **97**: 477-478.

15. Mohandoss, J. and Suryanarayanan, T.S. (2009). Effect of fungicide treatment on foliar fungal endophyte diversity in mango. *Sydowia* **61**: 11-24.

16. Suryanarayanan, T.S., Thirumalai, E., Prakash, C. P., Govinda Rajulu, M. B. and Thirunavukkarasu, N. (2009) Fungi from two forests of southern India: a comparative study of endophytes, phellophytes and leaf litter fungi. *Canadian Journal of Microbiology* **55**: 419-426.

17. Murali, T.S., Suryanarayanan, T.S. and Venkatesan, G. (2007) Fungal endophyte communities in two tropical forests of southern India: diversity and host affiliation. *Mycological Progress* **6**: 191-199.

18. Devarajan, P.T. and Suryanarayanan, T.S. (2006) Evidence for the role of phytophagous insects in dispersal of non-grass fungal endophytes. *Fungal Diversity* **23**: 111-119.

19. Murali, T.S., Suryanarayanan, T.S. and Geeta, R. (2006) Endophytic *Phomopsis* species: host range and implications for diversity estimates. *Canadian Journal of Microbiology* **52**: 673-680.

20. Ravishankar, J.P., Suryanarayanan, T.S. and Muruganandam, V. (2006) Strategies for osmoregulation in the marine fungus *Cirrenalia pygmea* Kohl. (Hyphomycetes). *Indian Journal of Marine Sciences* **35**: 351-358.

21. Suryanarayanan, T.S. and Murali, T.S. (2006) Incidence of *Leptosphaerulina crassiasca* in symptomless leaves of peanut in southern India. *Journal of Basic Microbiology* **46**: 305–309.

22. Suryanarayanan, T.S., Thirunavukkarasu, N., Hariharan, G.N. and Balaji, P. (2005) Occurrence of non-obligate microfungi inside lichen thalli. *Sydowia* **57**: 119-129.

23. Manoharachary, C., Sridhar, K., Reena Singh, Alok Adholeya, Suryanarayanan, T.S., Seema Rawat and Johri, B.N. (2005) Fungal biodiversity: Distribution, conservation and prospecting of fungi from India. *Current Science* **89**: 58-71.

24. Suryanarayanan, T.S., Wittlinger, S.K. and Faeth, S.H. (2005) Endophytic fungi associated with cacti of Arizona. *Mycological Research* **109**: 635-639.

25. Latha, R., Suryanarayanan, T.S. and Swaminathan, M.S. (2004) Genetic diversity in *Acremonium* endophytes isolated from warm season grasses as revealed by RAPD markers. *Journal of Plant Biochemistry and Biotechnology* **13**: 39-42.

26. Girivasan, K.P. and Suryanarayanan, T.S. (2004) Intact leaves as substrate for fungi: distribution of endophytes and phylloplane fungi in rattan palms. *Czech Mycology* **56**: 33-43.

27. Suryanarayanan, T.S., Ravishankar, J.P., Venkatesan, G. and Murali, T.S. (2004) Characterization of melanin pigment of a cosmopolitan fungal endophyte. *Mycological Research* **108**: 974-978.

28. Suryanarayanan, T.S. and Thennarasan, S. (2004) Temporal variation in endophyte assemblages of *Plumeria rubra* leaves. *Fungal Diversity* **15**: 195-202

29. Suryanarayanan, T.S., Venkatesan, G. and Murali, T.S. (2003) Endophytic fungal communities in leaves of tropical forest trees: diversity and distribution patterns. *Current Science* **85**: 489-493

30. Pandey, A.K., Reddy, M.S. and Suryanarayanan, T.S. (2003) ITS-RFLP and ITS sequence analysis of a foliar endophytic *Phyllosticta* from different tropical trees. *Mycological Research* **107**: 439-444.

31. Suryanarayanan, T.S., Murali, T.S. and Venkatesan, G. (2002) Occurrence and distribution of fungal endophytes in tropical forests across a rainfall gradient. *Canadian Journal of Botany* **80**: 818-826.

32. Kumaresan, V. and Suryanarayanan, T.S. (2002) Endophyte assemblages in young, mature and senescent leaves of *Rhizophora apiculata*: evidence for the role of endophytes in mangrove litter degradation. *Fungal Diversity* **9**: 81-91.

33. Devarajan, P.T., Suryanarayanan, T.S. and Geetha, V. (2002) Endophytic fungi associated with the tropical seagrass *Halophila ovalis* (Hydrocharitaceae). *Indian Journal of Marine Sciences* **31**: 73-74.

34. Kumaresan, V. and Suryanarayanan, T.S. (2001) Occurrence and distribution of endophytic fungi in a mangrove community. *Mycological Research* **105**: 1388-1391.

35. Suryanarayanan, T.S. and Vijaykrishna, D. (2001) Fungal endophytes of aerial roots of *Ficus benghalensis*. *Fungal Diversity* **8**: 155-161.

36. Suryanarayanan, T.S. and Kumaresan, V. (2000) Endophytic fungi of some halophytes from an estuarine mangrove forest. *Mycological Research* **104**: 1465-1467.

37. Suryanarayanan, T.S., Senthilarasu, G. and Muruganandam, V. (2000) Endophytic fungi from *Cuscuta reflexa* and its host plants. *Fungal Diversity* **4**: 119-125.

38. Suryanarayanan, T.S. and Rajagopal, K. (2000) Fungal endophytes (phellophytes) of some tropical forest trees. *The Indian Forester* **126**: 165-170.

39. Rajagopal, K. and Suryanarayanan, T.S. (2000) Isolation of endophytic fungi from leaves of neem (*Azadirachta indica* A. Juss.). *Current Science* **78**: 101-103.

40. Suryanarayanan, T.S. and Kumaresan, V. (1998) A simple method for storing and transporting fungal cultures. *Mycologist* **12**: 173.

41. Suryanarayanan, T.S., Kumaresan, V. and Johnson, J.A. (1998) Foliar fungal endophytes from two species of the mangrove *Rhizophora. Canadian Journal of Microbiology* **44**: 1003-1006.

42. Suryanarayanan, T.S., Rajagopal, K., Devarajan, P.T. and Ravindran, C. (1998) Survey of grain sorghum [*Sorghum bicolor* (L.) Moench] germplasm of Indian origin for endophytic fungi. *Indian Seed Science and Technology* **26**: 207-208.

43. Suryanarayanan, T.S., Ravindran, C. and Devarajan, P.T. (1998) Effect of *Acremonium* grass endophytes on mitosis of onion root meristem. *Rice Biotechnology Quarterly* **36**: 7.

44. Ravishankar, J.P. and Suryanarayanan, T.S. (1998) Influence of salinity on the activity of polyol metabolism enzymes and peroxidase in the marine fungus *Cirrenalia pygmea* (Hyphomycetes). *Indian Journal of Marine Sciences* **27**: 237-238.

45. Girivasan, K.P., Rajagopal, K., Muruganandam, V. and Suryanarayanan, T.S. (1998) Isolation of fungi from tropical peat of Southern India. *Current Science* **74**: 359-360.

46. Suryanarayanan, T.S., Muruganandam, V., Rajagopal, K. and Girivasan, K.P. (1996) Soil mycoflora of a commercially operated solar saltern. *Kavaka* **24**: 11-13.

47. Suryanarayanan, T.S. (1996) The 'minor' pigment of fungi. *Mycologist* **10**: 83.

48. Ramanan, B.V., Balakrishna, P. and Suryanarayanan, T.S. (1996) Search for seed borne endophytes in rice (*Oryza sativa*) and wild rice (*Porteresia coarctata*). *Rice Biotechnology Quarterly* **27**: 7-8.

49. Suryanarayanan, T.S. and Ramanan, B.V. (1996) Fungal endophytes of vetiver. *Vetiver Newsletter* **16**: 54-55.

50. Ravishankar, J.P., Muruganandam, V. and Suryanarayanan, T.S. (1996) Effect of salinity on amino acid composition of the marine fungus *Cirrenalia pygmea*. *Current Science* **70**: 1087-1089.

51. Ravishankar, J.P., Muruganandam, V. and Suryanarayanan, T.S. (1995) Isolation and characterization of melanin from a marine fungus. *Botanica Marina* **38**: 413-416.

52. Chandrashekar, S. and Suryanarayanan, T.S. (1994) A simple method to quantify water loss in large insects. *Biology Education* **11**: 98-99.

53. Ravishankar, J.P., Muruganandam, V. and Suryanarayanan, T.S. (1994) Effect of salinity on fatty acid composition of *Cirrenalia pygmea*, an obligate marine fungus. *Botanica Marina* **37**: 479-481.

54. Chandrashekar, S., Murthy, V. and Suryanarayanan, T.S. (1993) Citrinin interferes with spiracle control in the cockroach *Periplaneta americana*. *Letters in Applied Microbiology* **16**: 106-109.

55. Suryanarayanan, T.S. (1992) Light-incubation: a neglected procedure in mycology. *Mycologist* **6**: 144.

56. Muruganandam, V., Venkatachalam, V. and Suryanarayanan, T.S. (1991) Potassium enhances thigmotropically stimulated appressorium formation in *Colletotrichum capsici*. *Cryptogamie Mycologie* **12**: 155-159.

57. Ravishankar, J.P., Suryanarayanan, T.S. and Muruganandam, V. (1990) Respiratory metabolism and hyphal morphogenesis in *Botryodiplodia theobromae. Comparative Physiology and Ecology* **15**: 85-86

58. Suryanarayanan, T.S. and Suriyanarayanan, C.S. (1990) Fungi associated with stored sunflower seeds. *Journal of Economic and Taxonomic Botany* **14**: 174-176

59. Suryanarayanan, T.S., Muruganandam, V. and Srinivasan, E. (1990) An ecological study of fungi occurring in sludge and oil saturated soils of a petroleum refinery. *Pollution Research* **8**: 117-122.

60. Chandrashekar, S., Suryanarayanan, T.S. and Murthy, V.A. (1990) Effect of citrinin, a mycotoxin, on behaviour of cockroach. *Current Science* **59**: 108-109.

61. Muruganandam, V., Suryanarayanan, T.S. and Rajendran, V. (1989) Studies on factors affecting branching potential of *Polyporus versicolor* L. ex. Fr. *Comparative Physiology and Ecology* **14**: 109-112.

62. Suryanarayanan, T.S. and Muruganandam, V. (1989) Ultraviolet radiation and hyphal morphogenesis. *Indian Botanical Reporter* **8**: 145-148.

63. Chandrashekar, S., Murthy, V. and Suryanarayanan, T.S. (1988) Behavioural changes in the pseudoscorpion *Oratemnus indicus* due to *Penicillium citrinum* infection. *Comparative Physiology and Ecology* **13**: 145-148.

64. Suryanarayanan, T.S. and Mani, K. (1988) Cellophane technique for culturing fungi. *Biology Education* **5**: 185-187.

65. Suryanarayanan, T.S. and Rathinakumar, S.S. (1987) Formation of appressorium in *Colletotrichum capsici* as influenced by artificial surfaces and light. *Bulletin of Pure and Applied Sciences* **6**: 35-38.

66. Suryanarayanan, T.S., Muruganandam, V. and Sampath, G. (1987) Effect of congo red on hyphal morphogenesis and sporulation of *Botryodiplodia theobromae* Pat. *Canadian Journal of Botany* **65**: 815-816.

67. Muruganandam, V., Suryanarayanan, T.S. and Venkatachalam, S. (1987) Formation of infection structure in *Colletotrichum capsici* as influenced by nitrogen sources and cellophane. *Current Science* **56**: 674-675.

68. Suryanarayanan, T.S. and Muruganandam, V. (1986) Root-knot of *Acalypha indica* caused by *Meloidogyne* sp. *Comparative Ecology and Physiology* **11**: 119-120.

69. Raghavan, P., Subramani, K., Suryanarayanan, T.S. and Srinivasan, V.S. (1986) Metal ion-assisted detergent action on bacterial growth: detergent specificity and mechanism of inhibition. *Acta Microbiologica Hungarica* **33**: 3-8.

70. Suryanarayanan, T.S. and Muruganandam, V. (1986) Effect of altered surface tension on hyphal morphogenesis in some fungi. *Current Science* **55**: 865-866.

71. Muruganandam, V., Suryanarayanan, T.S. and Suresh, R. (1986) Effect of industrial air pollutants on the distribution of stomata in plants. *Comparative Physiology and Ecology* **11**: 74-76.

72. Suryanarayanan, T.S., Muralidharan, G. and Janarthanam, M.K. (1986) Alterations in the morphology and growth of fungal hyphae induced by cytochalasin D. *Microbios Letters* **33**: 33-36.

73. Pandurangan, A.G. and Suryanarayanan, T.S. (1985) A survey of mycoflora associated with some fresh vegetables and fruits in a market. *Journal of Economic and taxonomic Botany* **7**: 309-315.

74. Suryanarayanan, T.S. and Janarthanam, M.K. (1985) Induction of hyphal branching in *Bipolaris sorokiniana* by sodium chloride. *Proceedings of the Indian Academy of Sciences* **95**: 65-69.

75. Suryanarayanan, T.S., Sivamani, E. and Muthukumarasamy, S. (1985) Influence of nitrogen sources and cellophane on hyphal branching and formation of teleomorph in *Aspergillus nidulans* (Eidam) Winter. *Journal of Current Biosciences* **2**: 10-12.

76. Muruganandam, V. and Suryanarayanan, T.S. (1985) Effect of petrochemical effluents on the germination of legumes. *Bulletin of Pure and Applied Sciences* **4**: 13-15.

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