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EDUCATION

Ph.D., (Botany)	1979	University of Madras
Title of thesis: <i>Studies on photosporogenesis in some fungi</i>		
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.

RESEARCH GRANTS

Ongoing Projects
NIL

Completed Projects

2022-2025 – Principal Investigator, Ministry of Environment, Forests and Climate Change (MoEFCC), Government of India, research grant for the project “**Diversity of fungal endophytes of mangroves of western and eastern India**” under File No: 20/21/RE –(Rs.25.98 lakhs)

2021-2024 – Co-Principal Investigator, Science and Engineering Research Board (SERB), Department of Science and Technology (Government of India), research grant for the project “**Exploration of Fungal endosymbionts of marine sponges of Lakshadweep Archipelago for Diversity and Technological Applications**” under Core Research Grant-File No. CRG/2021/001117 –(Rs.31.3866 lakhs)

2017-2020 - Principal Investigator, European commission INNO INDIGO and Department of Biotechnology (Government of India), research grant for the project “**IndZyme: Novel inhibitor-resistant lignocellulolytic enzymes from Indian fungal resources**” – Collaborators VTT Finland, RWTH Aachen University, Germany and University of Tartu, Estonia. (Rs.40.948 lakhs)

2015-2018 – Principal Investigator, Department of Biotechnology (Government of India), research grant for the project “**A study of the biodiversity and bioactive natural products of non-sporulating fungi associated with mangroves and sponges of Andaman Islands**”(Rs.20.06 lakhs)

2015-2018 - Department of Biotechnology (Government of India), Twinning Programme - North East grant for the project “**Estimation of the diversity of endophytes in subtropical forest of Arunachal Pradesh and creation of a genetic resource**” (Rs.28.91 lakhs)

2012–2013 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 associated 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. 27.50 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. 12.60 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 of 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 and behavior 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

40 years research experience in Mycology. Supervised the research work of 30 M.Phil. students and 12 Ph.D. students of the University of Madras.

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.

DISTINCTIONS AND HONORS

The World Academy of Sciences (TWAS) Visiting Expert to the Dept. Microbiology, Kenyatta University, Nairobi, Kenya, September 2018.

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, 2011-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.

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

DBT Visiting Research Professorship, Rajiv Gandhi University, Itanagar, Arunachal Pradesh September 2015 to November 2015.

President, Mycological Society of India, 2016-2017.

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

Delivered Keynote address at Intergovernmental Framework for European Cooperation in Science & Technology (COST Action FA1103), Trento, Italy Nov. 2012.

Invited by the Centre for Biotechnology, Manaus, the Amazon, Brazil for discussion on the use of endophytes in biocontrol, 16/10/2010 to 28/11/2010.

Ranked in the list of Top 2% of researchers across the world scientists a study by Stanford University scientists. Worldwide Rank in Mycology & Parasitology -315. file:///C:/Users/USER/Downloads/World-Top-2-Percent-scientists-List-2023-Stanford-University-PDF.pdf

8785 Citations, h-Index-50 (Google Scholar on 16.07.2026)

RESEARCH COLLABORATIONS

Novel inhibitor resistant biomass degrading enzymes from fungi - Prof. Kruus Kristiina, VTT, Finland, Prof. Priit Valjamae, University of Tartu, Estonia and Prof. Jochen Buechs, RWTH Aachen University, Germany.

Biomass to Biofuel: the role of fungi – Prof. Venkat Gopalan, The Ohio State University, USA.

A study of the biodiversity and bioactive natural products of non-sporulating fungi associated with mangroves and sponges of Andaman Islands – Prof. Mukesh Doble, Dept. of Biotechnology, IIT Madras and Dr. Dinkar Sahal, ICGB, New Delhi (2015-2018).

Estimation of the diversity of endophytes in subtropical forest of Arunachal Pradesh and creation of a genetic resource – Prof. Sumpang, RGU, Arunachal Pradesh (2015-2018).

The potential of fungal endophytes as biocontrol organisms - Prof. Dr. Stefan Vidal, Georg-August-Universität, Göttingen, Germany (2011-2014).

Pharmaceuticals from marine and marine-derived fungi associated 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.

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.

PUBLICATION SUMMARY

Published 150+ research papers in National and International Journals. 14 chapters in books and 100+ abstracts in symposium proceedings.

LIST OF PUBLICATIONS

1. David L. Hawksworth, Patricia E.J. Wiltshire, K. Anupama, M.B. Govinda Rajulu, N. Thirunavukkarasu, S. Prasad, Kevin J. Edwards, T.S. Suryanarayanan, 2026. Beyond the dung heap: The reliability of spores of the ascomycete fungal genus *Sporormiella* (incl. *Preussia*) as a proxy indicator of dung and grazing animals, *Review of Palaeobotany and Palynology*, 105657, <https://doi.org/10.1016/j.revpalbo.2026.105657>.
2. Suryanarayanan, T.S., Ravishankar, J.P., Thirunavukkarasu, N. and Govinda Rajulu, M.B., 2025. Using fungi to combat drug-resistant *Candida*: Methods to increase the possibility and reduce the cost and time for finding new antifungal compounds. *APMIS*, 133: e70079.
3. Suryanarayanan, T.S., 2025. ‘Tyger! Tyger! burning bright’ – but fungi are out of sight. *Fungal Biology Reviews*, 53, p.100440
4. Hemapriya, M., Nataraja, K.N., Suryanarayanan, T.S. and Uma Shaanker, R., 2024. Comparative metagenomic analysis of seed endobiome of domesticated and wild finger millet Species (*Eleusine* spp.): Unveiling microbial diversity and composition. *Current Microbiology*, 81(11), p.373.
5. Suryanarayanan, T.S., 2024. A historic perspective of Bordeaux mixture: the first commercial scale fungicide. *Current Science*, 127(8), p.990.
6. Suryanarayanan, T.S., Rajamani, T., Aro, N., Borisova, A., Marjamaa, K. and Govindarajulu, M.B., 2024. Fungal endophytes and leaf litter fungi as sources of novel inhibitor-resistant cellulase for biofuel production: a basic study. *3 Biotech*, 14(10), p.243.

7. Suryanarayanan, T.S., Govindarajulu, M.B., Murali, T.S., Ravishankar, J.P., Bharathwaj, S. and Kalaivasan, M.D., 2024. *Amorosa littoralis* Mantle & D. Hawksw. survives as root endophyte of mangroves and produces water soluble melanin pigment. *Fungal Biology*, 128, 1954–1959.
8. Vasundhara, M., Singh, K., Suryanarayanan, T.S. and Reddy, M.S., 2024. Alkaliphilic and thermostable lipase production by leaf litter fungus *Leptosphaerulina trifolii* A SMR-2011. *Archives of Microbiology*, 206(264), pp.1-10.
9. Suryanarayanan, T.S., 2024. Crowdsourcing for mining new fungal sources for addressing the need for novel antibiotics against multidrug resistant pathogens. *The Journal of Antibiotics*, pp.1-3.
10. Suryanarayanan, T.S. 2023. Ronald Ross- mosquito, malaria and much more. *Indian Journal of Entomology*. 86(2), 678–683.
11. Suryanarayanan, T.S., Azevedo, J.L. 2023. From forest to plantation: a brief history of the rubber tree. *Indian Journal of History of Science*. 58, 74–78.
12. Suryanarayanan T.S. and Ravishanker J.P. 2023. They too serve who tolerate and survive: the need to study halotolerant fungi to appreciate their role in saline ecosystems. *Fungal Biology Reviews*. 46: 1-6.
13. Suryanarayanan, T. S. 2023. A fungal endophyte-plant-insect interaction: A tripartite association needing attention. *Indian Journal of Entomology*. 85(3), 865–869.
14. Govinda Rajulu, M.B., Rajamani, T., Murali, T.S., Suryanarayanan, T.S., Dairick Minj 2022. The fungal endobiome of seaweeds of the Andaman Islands. *Current Science* **123**:1508-1514.
<https://doi.org/10.18520/cs/v123/i12/1508-1514>
15. Paranetharan, M.S., Thirunavukkarasu, N., Rajamani, T., Suryanarayanan, T.S. 2022. Biomass destructuring enzymes of fungal endophytes of mangrove roots. *Current Research in Environmental & Applied Mycology* (Journal of Fungal Biology) **12**, 259–267. <https://doi.org/10.5943/cream/12/1/16>
16. Suryanarayanan, T.S., Ayesha, M.S., and Uma Shaanker, R. 2022. Leaf photosynthesis: do endophytes have a say? *Trends in Plant Science* 27, 968–970. <https://doi.org/10.1016/j.tplants.2022.07.009>.

17. Yadav, R., Vasundhara, M., Rajamani, T., Suryanarayanan, T.S. and Reddy, M.S. 2022. Isolation and characterization of thermostable and alkali tolerant cellulase from litter endophytic fungus *Bartalinia pondoensis*. *Folia Microbiologica* **67**, 955–964. <https://doi.org/10.1007/s12223-022-00991-4> (IF: 2.629).
18. Shweta, P., Murali, T.S., Suryanarayanan, T.S. and Sanyal, K. 2022. Hypersaline fungi as a source of potentially active metabolites against pathogenic *Candida* species. *Czech Mycology* **74**, 93–101. <https://doi.org/10.33585/cmy.74107>
19. Suryanarayanan, T.S. and Sasse, F. 2021. Increasing the chances of finding novel antibiotics to manage multidrug-resistant pathogens. *Kavaka* **57**, 1–5. <https://doi.org/10.36460/Kavaka/57/2021/1-5>
20. Govinda Rajulu, M.B., Suryanarayanan, T.S., Murali, T.S., Thirunavukkarasu, N. and Venkatesan G. 2021. Minor species of foliar fungal endophyte communities: do they matter? *Mycological Progress* **20**, 1353–1363. <https://doi.org/10.1007/s11557-021-01740-6>
21. Ayesha, M.S., Suryanarayanan, T.S., Nataraja, K.N. and Uma Shaanker, R. 2021. Seed treatment with systemic fungicides: Time for review. *Frontiers in Plant Science* **12**, 1581. <https://doi.org/10.3389/fpls.2021.654512>
22. Suryanarayanan, T.S. and Uma Shaanker, R. 2021. Can fungal endophytes fast-track plant adaptations to climate change?. *Fungal Ecology* **50**, 101039. <https://doi.org/10.1016/j.funeco.2021.101039>
23. Rajamani, T., Govinda Rajulu, M.B., Murali, T.S. and Suryanarayanan, T.S. 2021. Unusual thermal resistance of spores of mesophilic fungi. *Asian Journal of Mycology* **4**, 1–9. <https://doi.org/10.5943/ajom/4/1/1>
24. Thirumalai, E., Venkatachalam, A. and Suryanarayanan, T.S. 2021. Fungal endophytes of betel leaves: the need to study mycotoxin-producing endophytes in leafy vegetables. *Sydowia* **73**, 83–88.
25. Suryanarayanan, T.S., Ravishankar, J.P., Muruganandam, V. 2020. Scientific research: a collaborative endeavour is unrivalled. *Current Science* **119**, 1739–1741.
26. Hemapriya, M., Nataraja, K.N., Suryanarayanan, T.S. and Uma Shaanker, R. 2020. Threshing Yards: Graveyard of Maternally Borne Seed

- Microbiome?. *Trends in Ecology & Evolution* **35**, 965–968.
<https://doi.org/10.1016/j.tree.2020.08.010>
27. Suryanarayanan, T.S. 2020. The need to study the holobiome for gainful uses of endophytes. *Fungal Biology Reviews* **34**, 144–150.
<https://doi.org/10.1016/j.fbr.2020.07.004>
28. Chitnis, V.R., Suryanarayanan, T.S., Nataraja, K.N., Prasad, S.R., Ralf, O. and Uma Shaanker, R. 2020. Fungal endophyte-mediated crop improvement: the way ahead. *Frontiers in Plant Science* **11**, 1588.
<https://doi.org/10.3389/fpls.2020.561007>
29. Govinda Rajulu, M.B., Thirunavukkarasu, N., Shravanakumar, S.S., Tanveer Kaur, Reddy, M.S. and Suryanarayanan, T.S. 2020. Endolichenic fungi of some lichens of the Western Ghats. *Planta Medica*. **86**, 960–966
<https://doi.org/10.1055/a-1045-1989>
30. Nataraja, K.N., Suryanarayanan, T.S., Uma Shaanker, R., Senthil-Kumar, M. and Oelmüller, R. 2019. Plant–microbe interaction: prospects for crop improvement and management. *Plant Physiology Reports*, **24**, 1–2.
<https://doi.org/10.1007/s40502-019-00494-4>
31. Suryanarayanan, T.S. 2019. Endophytes and weed management: a commentary. *Plant Physiology Reports*, **24**, 576–579. <https://doi.org/10.1007/s40502-019-00488-2>.
32. Suryanarayanan, T.S. 2019. Endophytes in agriculture. Meeting Report. *Current Science* **117**, 1420–1421.
33. Loogen, J., Pihlajaniemi, V., Borisova, A., Suryanarayanan T. S., Valjamae, P. and Büchs, J. 2019. Novel-inhibitor resistant lignocellulolytic enzymes from Indian fungal resources - Poster Presented at the BioProcessing Days 2019, 18-20 February 2019, Westfälische Hochschule, Recklinghausen, Germany.
34. Pihlajaniemi, V., Borisova, A., Aro, N., Niemelä, K., Suryanarayanan, T.S., Rajamani, T., Kont, R., Valjamae, P., Marjamaa, K. and Kruus, K. 2019. IndZyme: Novel-inhibitor resistant lignocellulolytic enzymes from Indian fungal resources - Poster Presented at the National New Energy Programme Seminar, VTT Technical Research Centre of Finland, 28 March 2019, Helsinki, Finland.

35. Borisova, A., Pihlajaniemi, V., Kont, R., Niemelä, K., Aro, N., Suryanarayanan, T.S., Marjamaa, K., Våljamäe, P. and Kruus, K. 2019. Effect of soluble phenolic compounds from hydrothermally pretreated wheat straw on cellulose hydrolysis - Poster Presented at 15th International Conference on Renewable Resources & Biorefineries (RRB15), 3-5 June 2019, Toulouse, France.
36. Suryanarayanan, T.S. 2019. Repository of fungal endophytes at VINSTROM, Chennai: waiting to be harnessed. *Current Science* **117**, 1469–1474.
37. Hyde, K.D., Xu, J., Rapior, S., Jeewon, R., Lumyong, S., Niego, A.G.T., Abeywickrama, P.D., Aluthmuhandiram, J.V., Brahmananage, R.S., Brooks, S., Chaiyasen, A., Chethana, K.W.T., Chomnunti, P., Chepkirui, C., Chuankid, B., de Silva, N.I., Doilom, M., Faulds, C., Gentekaki, E., Gopalan, V., Kakumyan, P., Harishchandra, D., Hemachandran, H., Hongsanant, S., Karunarathna, A., Karunarathna, S.C., Khan, S., Kumla, J., Jayawardena, R.S., Liu, J-K., Liu, N., Luangharn, T., Macabeo, A.P.G., Marasinghe, D.S., Meeks, D., Mortimer, P.E., Mueller, P., Nadir, S., Nataraja, K.N., Nontachaiyapoom, S., O'Brien, M., Penkhrue, W., Phukhamsakda, C., Uma Shaanker, R., Rathnayaka, A.R., Sadaba, R.B., Sandargo, B., Samarakoon, B.C., Tennakoon, D.S., Sriprom, W., Suryanarayanan, T.S., Sujarit, K., Suwannarach, N., Suwunwong, T., Thongbai, B., Thongklang, N., Wei, D., Wijesinghe, S.N., Winiski, J., Yan, J., Yasanthika, E. and Stadler, M. 2019. The amazing potential of fungi: 50 ways we can exploit fungi industrially. *Fungal Diversity*, **97**, 1–136. <https://doi.org/10.1007/s13225-019-00430-9>
38. Tangjang, S., Reddy, M.S., Suryanarayanan, T.S. and Taka, T. 2018. *Stereostroma corticioides* (Berk. & Broome) H. Magn. rust on *Phyllostachys bambusoides* Siebold & Zucc. from Arunachal Pradesh, India. *Current Science* **115**, 2011–2012.
39. Rajamani, T., Suryanarayanan, T.S., Murali, T.S. and Thirunavukkarasu, N. 2018. Distribution and diversity of foliar endophytic fungi in the mangroves of Andaman Islands, India. *Fungal Ecology* **36**, 109–116. <https://doi.org/10.1016/j.funeco.2018.09.007>
40. Suryanarayanan, T.S. and Hawksworth, D.L. 2018. The war against MDR pathogens: move fungi to the front line. *Current Science* **115**, 2201–2205.
41. Suryanarayanan, T.S., Devarajan, P.T., Girivasan, K.P., Govinda Rajulu, M.B., Kumaresan, V., Murali, T.S., Rajamani, T., Thirunavukkarasu, N. and

- Venkatesan. G. 2018. The host range of multi-host endophytic fungi. *Current Science* **115**, 1963–1969.
42. Suryanarayanan, T.S., Govinda Rajulu, M.B. and Vidal, S. 2018. Biological control through fungal endophytes: gaps in knowledge hindering success. *Current Biotechnology* **7**, 185–198. <https://doi.org/10.2174/2211550105666160504130322>
43. Paranetharan, M.S., Thirunavukkarasu, N., Rajamani, T., Murali, T.S., Suryanarayanan, T.S. 2018. Salt- tolerant chitin and chitosan modifying enzymes from *Talaromyces stipitatus*, a mangrove endophyte. *Mycosphere* **9**, 215–226. <https://doi.org/10.5943/mycosphere/9/2/5>
44. Suryanarayanan, T.S. 2017. Fungal Endophytes: An Eclectic Review, *Kavaka* **48(1)**, 1–9.
45. Thirunavukkarasu, N., Suryanarayanan, T.S., Rajamani, T. and Govinda Rajulu, M.B. 2017. Diversity and technological potential of fungi from solar salterns of southern India. *Kavaka* **48(2)**, 26–32.
46. Raman, A. and Suryanarayanan, T.S. 2017. Fungus-plant interaction influences plant-feeding insects. *Fungal Ecology* **29**, 123–132. <https://doi.org/10.1016/j.funeco.2017.06.004>
47. Suryanarayanan, T.S. and Thirunavukkarasu, N. 2017. Endolichenic fungi the lesser known fungal associates of lichens. *Mycology* **8**, 189–196. <https://doi.org/10.1080/21501203.2017.1352048>
48. Thirunavukkarasu, N., Suryanarayanan, T.S., Rajamani, T. and Paranetharan, M.S. 2017. A rapid and simple method for screening fungi for extracellular protease enzymes. *Mycosphere* **8**, 131–136. <https://doi.org/10.5943/mycosphere/8/1/12>
49. Suryanarayanan, T.S., Govinda Rajulu, M.B., Rajamani, T., Tripathi, M. and Joshi, Y. 2017. Endolichenic fungi in lichens of Champawat district, Uttarakhand, northern India. *Mycological Progress* **16**, 205–211. <https://doi.org/10.1007/s11557-016-1268-7>
50. Sengupta, A., Zabala, A., Tan, S.Y., Broadstock, A., Suryanarayanan, T.S. and Gopalan, V. 2017. Characterization of an ionic liquid-tolerant β -xylosidase from a marine-derived fungal endophyte. *Biochemistry and Cell Biology* **95**, 585–591. <https://doi.org/10.1139/bcb-2017-0053>

51. Reddy, M.S., Murali, T.S., Suryanarayanan, T.S., Govinda Rajulu, M.B. and Thirunavukkarasu, N. 2016. *Pestalotiopsis* species occur as generalist endophytes in trees of Western Ghats forests of southern India. *Fungal Ecology*, **24**, 70–75. <https://doi.org/10.1016/j.funeco.2016.09.002>
52. Govinda Rajulu, M.B., Suryanarayanan, T.S. and Tangjang, S. 2016. Endophytic fungi of orchids of Arunachal Pradesh, North Eastern India. *Current Research in Environmental & Applied Mycology* **6**, 293–299. <https://doi.org/10.1016/j.funeco.2016.09.002>
53. Suryanarayanan, T.S., Govinda Rajulu, M.B. and Thirunavukkarasu, N. 2015. The need to explore the fungal facet of biodiversity of Arunachal Pradesh. *Journal of Bioresources* **2**, 53–60.
54. Suryanarayanan, T.S. 2015. Two decades of endophyte research in VINSTROM results in more questions than answers. *Kavaka* **44**, 6–12.
55. Prakash, C.P., Thirumalai, E., Govinda Rajulu, M.B., Thirunavukkarasu, N. and Suryanarayanan, T.S. 2015. Ecology and diversity of leaf litter fungi during early-stage decomposition in a seasonally dry tropical forest. *Fungal Ecology* **17**, 103–113. <https://doi.org/10.1016/j.funeco.2015.05.004>
56. Suryanarayanan, T.S., Gopalan, V., Sahal, D., and Sanyal, K. 2015. Establishing a national fungal genetic resource to enhance the bioeconomy. *Current Science* **109**, 1033–1037.
57. Thirunavukkarasu, N., Jahnes, B., Broadstock, A., Govinda Rajulu, M.B., Murali, T.S., Gopalan, V. and Suryanarayanan, T.S. 2015. Screening marine-derived endophytic fungi for xylan-degrading enzymes. *Current Science* **109**, 112–120.
58. Venkatachalam, A., Govinda Rajulu, M.B., Thirunavukkarasu, N. and Suryanarayanan, T.S. 2015. Endophytic fungi of marine algae and seagrasses: a novel source of chitin modifying enzymes. *Mycosphere* **6**, 345–355. <https://doi.org/10.5943/mycosphere/6/3/10>
59. Malathi, N., Govinda Rajulu, M.B., Gillet, D., Suryanarayanan, T.S. and Moerschbacher, B.M. 2015. A high diversity in chitinolytic and chitosanolytic species and enzymes as well as their oligomeric products exist in soil with a history of chitin and chitosan exposure. *Biomed Research International*, 1–9. <https://doi.org/10.1155/2015/857639>

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CHAPTERS IN BOOKS

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