

Curriculum Vitae

Name : Dr. J. P. Ravishankar

Designation : Associate Professor (Retd.),
Department of Botany
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Current Position :Senior Research Associate (After retirement)
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Qualification : M.Sc., Ph.D.

Experience

34 years teaching experience and 15 years of Research experience, Published over 20 research papers and 3 book chapters in International and national journals. Papers cited in *Annual Reviews of American Phytopathology*.

Fellowships:

- Research Fellow, National Science Foundation and National Institute of Health
- Post Doctoral Fellow (2000-2002) –“Biomechanics of fungi ”
Research Supervisor: Prof. N.P. Money, Department of Botany, Miami University, Oxford, Ohio

Publications:

1. 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.
2. Suryanarayanan, T.S., Govindarajulu, M.B., Murali, T.S., **Ravishankar, J.P.**, Bharathwaj, S. and Kalaiarasan, M.D., 2024. *Amorosia littoralis* Mantle & D. Hawksw. survives as root endophyte of mangroves and produces water soluble melanin pigment. *Fungal Biology* **128**: 1954-1959.
3. Suryanarayanan, T.S. and **Ravishankar, 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**: 100328.
4. Suryanarayanan, T.S., **Ravishankar, J.P.**, Muruganandam, V. 2020. Scientific research: a collaborative endeavour is unrivalled. *Current Science* **119**, 1739–1741.
5. 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.
6. 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.
7. 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.
8. Suryanarayanan, T.S., **Ravishankar, J.P.**, Muruganandam V. (2010) Drug discovery: going with the tide. *Current Science* **99**:1308.
9. 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.

10. **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.
11. Davis, D.J., Lanter, K., Makselan, S., Bonati, C., Asbrock, P., **Ravishankar**, J.P. and Money, N.P. (2006) Relationship between temperature optima and secreted protease activities of three *Pythium* species and pathogenicity toward plant and animal hosts. *Mycological research* **110**: 96-103.
12. Nicholas, P. and **Ravishankar**, J.P. (2005) Biomechanics of stipe elongation in the basidiomycete *Coprinopsis cinerea*. *Mycological research* **109**: 627-634.
13. 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.
14. Money NP, Davis CM, **Ravishankar** JP (2004). Biomechanical evidence for convergent evolution of the invasive growth process among fungi and oomycete water molds. *Fungal Genetics and Biology* **41**: 872-876.
15. MacDonald, E., Millward, L., **Ravishankar**, J.P. and Money, N.P. (2002). Biomechanical interaction between hyphae of two *Pythium* species (Oomycota) and host tissues. *Fungal Genetics and Biology* **37**: 245-249.
16. **Ravishankar**, J.P., Davis, C.M., Davis, D.J., MacDonald, E., Makselan, S.D., Millward, L. and Money, N.P., (2001) Mechanics of solid tissue invasion by the mammalian pathogen *Pythium insidiosum*. *Fungal Genetics and Biology* **34**:167-175.
17. **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.
18. **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.
19. **Ravishankar**, J.P., Muruganandam, V. and Suryanarayanan, T.S. (1995) Isolation and characterization of melanin from a marine fungus. *Botanica Marina* **38**: 413-416.

20. **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.
21. **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

PAPERS ABSTRACTED IN PROCEEDINGS OF SYMPOSIA/SEMINARS

1. Suryanarayanan, T.S., Venkatachalam, A., Thirunavukkarasu, N., Ravishankar, J.P. (2011). Fungal endosymbionts of seagrasses from Tamilnadu coast. National conference on "Recent Advances in Mycological Research", Chennai, India.
2. Mohandoss, J., Ravishankar J.P., and Suryanarayanan, T.S. (2009) Tannase (tannin acyl hydrolase) activity in foliar endophytes of *Mangifera indica* L., National Symposium on New Vistas for Mycology in Meeting Global Changes"Chennai, India.
3. Suryanarayanan, T.S., Ravishankar, J.P., Venkatesan, G. and Murali, T.S. (2004) Isolation and characterization of melanin from a cosmopolitan endophyte. *National Symposium on Recent trends in Biology, Biodiversity and Biotechnology of Fungi*, Chennai, India.
4. Ravishankar, J.P., Suryanarayanan, T.S. and Muruganandam, V. (1999) Turgor regulation in a marine fungus: the role of polyols. *Mycological Society of India Symposium*, India.
5. Suryanarayanan, T.S. and Ravishankar, J.P. (1995) *Lindra thalassiae* and *Cirrenalia pygmea*: models for understanding factors affecting sporulation in marine fungi. *National Symposium on New Directions in Plant Biodiversity Research*, India.
6. Ravishankar, J.P., Muruganandam, V. and Suryanarayanan, T.S. (1995) Mechanisms of response to salinity in manglicolous fungus *Cirrenalia pygmea* Kohlmeyer. *VI International Marine and Freshwater Mycology Symposium*, Portsmouth, UK.
7. Ravishankar, J.P. and Suryanarayanan, T.S. (1994) Hyphal integrity of marine fungi: a role to melanin. *Mycological Society of India Symposium*, India.