

VINSTROM ANNUAL REPORT (2013-2014)

Lectures delivered by T. S. Suryanarayanan:

- Talk on Endophytes at Salim Ali Centre for Ornithology and Natural history (SACON), Coimbatore – 19.02.2013.
- Talk on Fulbright Tenure at the South and Central Asia Fulbright Conference, Kochi – 26.02.2013.
- Talk on Fungal Biotechnology at Rajiv Gandhi University, Ita Nagar, Arunachal Pradesh – 20.03.2013
- Fulbright Mentoring lecture at Coimbatore – 19.04.2013.
- “Endophytic fungi as a proxy for pharmaceuticals from medicinal plants” Talk at National Conference on New Frontiers in Medicinal Plant Research, Sikkim University – 04.10.2013.
- “Fungal Endophytes” – Seminar on Bioprospecting and Bioresources: From Molecules to Products, VIT, Vellore – 22.10.13.
- Talk at Murugappa Chettiar Research Centre (MCRC), Chennai – 20.11.2013.

Papers published:

Nagarajan, A., Thirunavukkarasu, N., Suryanarayanan, T.S. and Gummadi, S.N. 2014. Screening and isolation of novel glutaminase free L-asparaginase from fungal endophytes. *Research Journal of Microbiology*, (Accepted in press).

Suryanarayanan, T.S. and Gopalan V. 2014. Crowdsourcing to create national repositories of microbial genetic resources: fungi as a model. *Current Science*, 9: 1196-1200.

Suryanarayanan, T.S., Johnson, J.A. 2014. Fungal Endosymbionts of Macroalgae: Need for Enquiries into Diversity and Technological Potential. *Oceanography*, 2: 119. doi:10.4172/2332-2632.1000119

Govinda Rajulu, M.B., Thirunavukkarasu, N., Giridhar Babu, A., Aggarwal, A., Suryanarayanan, T. S. and Sudhakara Reddy, M. 2013. Endophytic Xylariaceae from the forests of Western Ghats, southern India: distribution and biological activities, *Mycology: An International Journal on Fungal Biology*, 4:29-37.

N. Sachin, B. L. Manjunatha Mohana Kumara,P,G, Ravikanth, S. Shwetha, T. S. Suryanarayanan, K.N. Ganeshiah, R. Uma Shaanker. 2013. Do endophytic fungi possess pathway genes for plant secondary metabolites? *Current Science* 104: 178-182.

Murali T.S, Thirunavukkarasu N., Govindarajulu M.B., Suryanarayanan, T.S. 2013. Fungal communities of symptomless barks of tropical trees. *Mycosphere* 4: 635–645, Doi 10.5943/mycosphere/4/3/15

Suryanarayanan T.S. 2013. Endophyte research: going beyond isolation and metabolite documentation. *Fungal Ecology* 6: 561-568.

Posters presented:

- Rajamani, T., Govinda Rajulu, M.B., Thirunavukkarasu, N. and Suryanarayanan, T.S., 2013. Studies on endophytic fungi of some medicinal plants. 40th annual Meeting at Mycological Society of India, Annamalai University, 27-28th February, 2014.
- Venkatachalam, A., Govinda Rajulu, M.B., Thirunavukkarasu, N. and Suryanarayanan, T.S., 2013. A study on Fungal endophytes of some plants of Arunachal Pradesh. 40th annual Meeting at Mycological Society of India, Annamalai University, 27-28th February, 2014.
- Thirumalai, E., Dastjerdi, R., Döll, K., Venkatachalam, A., Karlovsky, P. and Suryanarayanan, T. S. 2013. Mycotoxins of endophytic *Fusarium mangiferae* and *F. pallidoroseum* from betel leaves (*Piper betel* L.), 35th Mycotoxin Workshop, Ghent, Belgium.
- Naveen Kumar Kaushik, T. S. Murali , Dinkar Sahal and T. S. Suryanarayanan. 2013. A search for antiplasmodial metabolites among fungal endophytes of terrestrial and marine plants of southern India, ICGEB, New Delhi

Completed projects

Title	Funded by	Amount
The potential of fungal endophytes as biocontrol organisms	Department of Biotechnology (Feb'2011-Feb'2014)	Rs. 36.59 lakhs

Visitor

Dr. Florenz Sasse, Scientist, (joint Patent holder for the anticancer drug epothilone), Helmholtz Centre for Infection Research, Braunschweig, Germany visited VINSTROM on 08-04-2013 and delivered a lecture on the bioactive molecules from Myxobacteria.