Science Exchange 2014



THE UNIVERSITY OF WESTERN AUSTRALIA



Project: CRC62042 Exotic fungal spores in the Australian Plant Biosecurity context Papori Barua

PhD Student

Plant Biosecurity Cooperative Research Centre

Problem being addressed

- Different entry pathways
- Role of different materials as fungal spore carriers
- Spore survivability
- Decontamination of the contaminated materials



Problem being addressed



Who will use research?

- Dept. Agriculture
- Quarantine WA
- Defence
- Researchers
- Industry e.g. Agriculture, Mining



Who will directly benefit from the research?

- Beneficial to Dept. of Agriculture
- Plant Health Australia (PHA)
- All state government quarantine risk management groups
- Research community
- Industry
- Farmers
- Trades



Results so far

Materials as spore carriers





Results so far

Isolation of spores from different materials over time

ANTbiosecurity



Results so far

Survival of spores over time



CRC PLANT biosecurity

Challenges and issues arising from the research

 Developing a system to detect multiple pathogens, multiple factors in a single experiment

Developing a rapid methodology to determine the number of spores and viability



Prospects for success



- W/Prof. Martin Barbetti (Principal Supervisor, UWA)
- Dr Mingpei You (UWA)
- Dr Kirsty Bayliss (Murdoch University)
- Dr Vincent Lanoiselet (DAFWA)
- Plant Biosecurity CRC
- University of Western Australia
 For more information, please email
 paporibarua28@gmail.com ;

contact number 0437 808 295



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