

APPS Fellow



Associate Professor Treena Burgess's research field is the biology, ecology and genetics of beneficial and detrimental microorganisms in natural ecosystems, plantation (e.g. Eucalypts, Acacia, and Sandalwood) forestry and horticulture, with a focus on biodiversity and biosecurity issues. She has made significant contributions to these fields especially in the area of pathogen population genetics where she has designed several sets of microsatellite markers that were among the first developed for fungal pathogens. She has explored cryptic speciation, pathogen movement, survival and establishment under the overarching topic of forest biosecurity. She is also contributing significantly to the molecular systematics and evolutionary biology of *Phytophthora* species, she has also described at least 15 species. She has published extensively in all these areas, with over 130 peer-reviewed publications. She has collaborative projects across Australia, South Africa and S.E. Asia. She plays an important role in training the next generation of plant pathologists with 12 PhD completions and another 13 in progress.