

PROJECT PROFILE

Project Title: To generate *Eucalyptus* transgenics/ transgrafts with enhanced salt and insect tolerance for confined field trials

Principal Investigator: Dr. Mathish Nambiar-Veetil, Scientist- F

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Duration: 5 Years (2020- 2024)

Objectives:

1. To modify *EcHKT1hpRNA* transformation constructs to be driven by root specific and salt inducible promoter.
2. To generate transgenic events using *EcHKT1hpRNA* and *LihpRNA* transformation constructs and identify transgenic events with enhanced tolerance to salt and *Leptocybe invasa*.
3. To develop transgraft strategy using transgenic rootstock and elite scions, and evaluate for enhanced salt tolerance contributed by the transgenic root stock.
4. To generate data required to apply for confined field trials of the transgenic events.

Funding Agency: MoEF & CC (CAMPA)

Total Budget: Rs. 38.24 lakhs