

GREAT TREES

GENETIC RESEARCH ON ENGINEERING + ADVANCED TRANSFORMATION OF TREES

COOPERATIVE RESEARCH

We conduct research to facilitate economic and socially acceptable applications of genetic engineering and gene editing in plantation forestry. We have been engaged in collaborative biotechnology research with companies for more than three decades.

Our current research is focused on eucalypts, the most important and widely planted hardwood forest tree in the world. Our studies will focus on major innovations in gene transfer and gene editing, essential to make the benefits of genetic engineering applicable for industrial forestry. The results of GREAT TREES research can directly aid companies that are seeking sustainable, socially acceptable uses of transgenic or exotic tree species in plantations.



COOPERATIVE LEADER

Steve Strauss is a Distinguished Professor of Forest Biotechnology and has led university-industry cooperatives at Oregon State University for 23 years.

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MODIFIED TREES: Fluorescent eucalypt shoot on a urograndis hybrid (left). Petri dishes as part of regeneration experiment (right).



FIELD TRIALS: We have conducted more than 100 USDA authorized field trials of modified trees to study a variety of traits, including pest resistance, growth improvement and flowering control.



EARLY FLOWERING TREES: We routinely use genetic technology to advance the flowering of eucalypt trees to aid research.