

Plant growth promoting rhizobacterium

Disclosure Number

201202828

Technology Summary

Microbial interactions elicit a range of host plant responses from antagonistic or neutral reactions to beneficial reactions that confer enhanced fitness. Here we describe properties of the newly discovered *P. fluorescens* strain GM30 isolated by us from the *Populus deltoides* rhizosphere. *Pseudomonas* sp. GM30 was found to colonize the roots of *Arabidopsis* host plants and induce proliferation in lateral roots. Additionally colonization of host roots resulted in enhanced resistance to pathogen attack when challenged with the pathogen *Pseudomonas syringae* DC3000.

Inventor

PELLETIER, DALE A
Biosciences Division

Licensing Contact

SPECK, ROBERTA R
UT-Battelle, LLC
Oak Ridge National Laboratory
Rm 141, Bldg 4500N, MS: 6196
1 Bethel Valley Road
Oak Ridge, TN 37831

Office Phone: (865) 576-4680

E-mail: SPECKRR@ORNL.GOV

Note: The technology described above is an early stage opportunity. Licensing rights to this intellectual property may be limited or unavailable. Patent applications directed towards this invention may not have been filed with any patent office.