Simone Jimenez was advised by Dr. Janine Sherrier of UD’s Department of Plant and Soil Sciences.

Identification of a Rhizobia Strain Efficient Enough to be Marketed as an Inoculant

Abstract:
In the event of nitrogen low soil conditions, legume plants and rhizobia interact in such a manner that results in a highly efficient mutualistic relationship. The plant produces an entirely new organ called a root nodule that provides sanctuary for the rhizobia, which in turn fixes atmospheric nitrogen for the plant. There are various strains of rhizobia that can perform this service. This research incorporates a microscopy study to analyze the efficiency and growth differences in nodules inoculated with various strains of rhizobia.