



Alabama Plasma Internship Program



Project Title:

Plasma Activated Water and Seed Germination of Various Plant Species: A Potential Simulator of Allelopathy

Project Reference Code:

AAMU-Cebert

Host Facility:

Alabama A&M University

Host Facility Location:

4900 Meridian St.

Huntsville, Alabama 35811

<https://www.aamu.edu/>

Project Description:

Germination is directly impacted by the surrounding setting of the seed, whereby chemical compounds within that environment could enhance or reduce the process. The response of seeds or one plant to compounds released by another plant is known as Allelopathy. Plasma Activated Water (PAW) has the potential to release a variety of ions that can modify the surrounding environment. Therefore, treating seeds of different plant species in PAW based on the characteristics of the plasma could mimic potential allelopathic response. Multiple experiments will be designed to study the proposed hypothesis.

Disciplines:

Agriculture / Plasma Physics

Is U.S. citizenship required to participate in this project?

No

Name(s) of Mentor(s) and contact information:

Ernst Cebert (ecebert@gmail.com)

Internship Coordinator/ HR manager:

Srinivasa Rao Mentreddy (rmentreddy@gmail.com)

The name and contact information of personnel at the host facility is provided for further assistance with questions regarding the host facility or the project.

Interns will not enter into an employee/employer relationship with the host facility. No commitment with regard to later employment is implied or should be inferred.