Far UV-C 222nm Pulse treatment a multi-layer approach to suppress harmful pests in cassava plants with artificial intelligence in analyzing the soil

Duration: 2022 - 2024

Host Institution: Isabela State University

Project Description

The project seeks to integrate electromagnetic radiation, data analytics, and modeling focus to develop a new treatment technology for cassava bacterial and fungal pathogens related diseases and insects, and to identify management protocols to reduce pest and disease (PD) impact on crops using environment- friendly solutions. The project will address 1) the treatment and management of PD using multi-discipline based on data science and machine learning approaches, and 2) implement an ICT-based extension service to deliver tangible technology to mitigate PD damages.

Expertise Needed

• Application of UV (UV-C) irradiation to suppress plants bacterial, fungal pathogens, and to control harmful pest incidents in field conditions.

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