



International Biotechnology and Research Conference

April 25-27, 2018 Rome, Italy

The CITAS Story on a Multidisciplinary Approach in Disease Detection in Agriculture for Developing Countries

Maria Regina Justina Estuar

Ateneo de Manila University, Philippines

In 2013, the Philippine California Advanced Research Institute (PCARI) was established with the goal of providing opportunities for advanced research to be established in the Philippines. The Cloud based Intelligent Total Analysis System has been developed as a platform that collects, analyses, models and visualizes results obtained from wireless sensor networks and mobile microscopy. CITAS provides a Smart Farm approach to address the problem of *Fusarium Oxysporum Cubense* s.p. TR4, more commonly called Panama Wilt, a fungal pathogen that affects cavendish cultivars and is becoming widespread in banana farms in the Philippines.

Biography:

Maria Regina is a Fulltime Professor at the Department of Information Systems and Computer Science, Ateneo de Manila University. She currently manages two laboratories: Ateneo Java Wireless Competency Center and the Ateneo Social Computing Science Laboratory where research focus is on in the design and development of social, mobile and wireless systems to understand and model collective behavior and capacity. She teaches Social Computing, Information Systems for Disaster and Health.