Postharvest and Diagnostic Devices

AP-5
Technology: Nanocomposite Coatings

Description: The liquid nanocomposite coatings can be sprayed or brushed on high-value fruits like mango and papaya to prolong post-harvest shelf life. The edible coatings are developed from bio-materials extracted from pineapple crown leaves, mango peel and nata de coco.

Contact Details:
Dr. Hidelisa P. Hernandez
University of the Philippines Los Baños
(049)536 2220

Postharvest and Diagnostic Devices

AP-6
Technology: Electrochemical Sensor for Fish Freshness Monitoring

Description: The electrochemical sensor is a cost-effective, handy and compact device integrated with a metal oxide-based sensor that can check the freshness of fish to ensure safe consumption.

Contact Details:
Dr. Armando S. Somintac
University of the Philippines Diliman
(02) 920 9749

AP-7
Technology: Andali™ RT-LAMP Test Kit

Description: The Andali™ RT-LAMP Test Kit allows for fast, timely and inexpensive diagnosis of Porcine Epidemic Diarrhea (PED) virus infection in pigs using loop-mediated isothermal amplification (LAMP). This can help reduce swine mortalities associated with PED.

Contact Details:
Dr. Clarissa Yvonne J. Domingo
Central Luzon State University
0905 811 3912

Postharvest and Diagnostic Devices

AP-8
Technology: LAMP Diagnostic Kit for White Spot Syndrome Virus in Shrimp

Description: Loop-mediated isothermal amplification (LAMP) is a new molecular technique for quick, accurate and convenient detection of white spot syndrome virus in shrimp. Using LAMP, the diagnostic kit is 10 times more effective than conventional methods and can produce results within an hour.

Contact Details:
Dr. Mary Beth B. Maningas
University of Santo Tomas
(02) 732 7486

AP-9
Technology: Genome-Based Lateral Flow Strip Biosensor Kit

Description: The genome-based lateral flow strip biosensor kit is an affordable and convenient device for quick detection of white spot syndrome virus and other pathogens in shrimp. Its test strips are field-ready, with an extraction and mobile device kit for first-level screening of pathogens on site.

Contact Details:
Dr. Erwin P. Enriquez
Ateneo de Manila University
(02) 426 6001