

8th Khwarizmi International Award

Feb 1995

Guest of Honor

Researcher: Dr. Ma. Concepcion Claudio Lizada

Research Title: Postharvest technologies for Carabao mango

Country: Philippine

Field: Agricultural and Natural Resources



Dr. Lizada developed a simple quantitative method of analyzing 1- aminocyclopropane-1- carboxylic acid (ACC), the direct precursor of ethylene used by scientist worldwide working on ethylene related processes such as ripening and senescence of plant organs and tissues.

Her valuable contribution is about postharvest physiology and biochemistry of tropical horticultural crops, notably the development of a package of technologies to reduce postharvest losses in “Carbao” mango which greatly benefitted the Philippine fruit industry.

In line with the goals of postharvest science to reduce food losses, she has fabricated an inexpensive, simple and effective device made from indigenous waste material to delay ripening and deterioration of fruits, vegetables and ornamentals. Her studies on the characterization of postharvest behavior of some tropical fruits especially mango, banana and papaya have provided scientists with the bases insights and explanation to the responses of such fruits to postharvest treatments.

Simple technologies such as determination of maturity using flotation in 1% salt solution, and hot water treatment for postharvest disease control in the carabao, mango are now widely adopted and used by the mango industry.

Dr. Lizada was born in Manila in December 1947. She had received her Ph.D. in biochemistry from University of California in 1979.