

VSU RESEARCH QUARTERLY ACCOMPLISHMENT REPORT

October - December 2021

Project Title: Propagation of Quality Planting Materials of Baybay Tall (BAYT) and Selected Dwarf and Hybrid Coconut Varieties through Somatic Embryogenesis Technology (CSet)

Highlights of Accomplishment

As of December 2021, the VSU CSet Tissue Laboratory was able to produce a number of coconut tissue cultures of various stages. These included 6,778 calloids (Fig 1), 7,181 somatic embryos (Fig 2), 348 shootlets (Fig 3) and 7 plantlets (Fig 4). Among the different cultivars initiated, BAYT is still the most responsive and had the highest number of calloids, somatic embryos and regenerants.

CULTIVARS	CD	SE	SHOOTLETS	PLANTLETS
BAYT	6,358	6,789	342	6
SNID	253	213		
MRD x TAGT	25	30		
TACD x TAGT		125	6	1
LAGT	120			
VSU BAYT	22	24		
TOTAL	6,778	7,181	348	7

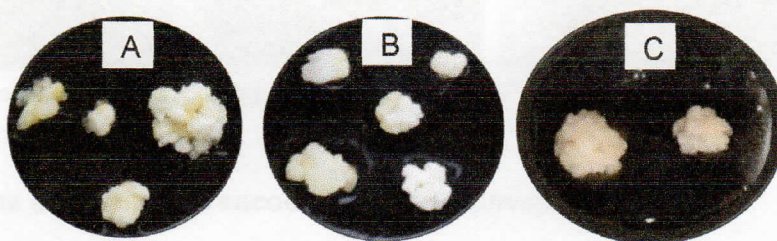


Figure 1. Calloids produced from different coconut varieties: A (LAGT, Batch 31(2015) P- 2605, E- 6), B (BAYT, Batch 8 (2016) P- 0318, E- 3), C (BAYT, Batch 7 (2015) P- 0925, E- 1)