

PGM-MARDI Plant Breeding Award



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Work Experience: 10 years (Oct 1999-May 2011)

Director

Technology Transfer Division

Malaysia Cocoa Board

Kota Kinabalu, Sabah

Development of cocoa planting material for cocoa farmers and growers

- Development of cocoa area
- Development of groups and smallholders cocoa cooperative
- Development of entrepreneur in chocolate confectionery

Work experience: 20 years (Feb 1982- Sept 1999)

Senior Research Officer

Cocoa Coconut Research MARDI

Cocoa planting breeding

MARDI Hilir Perak, Perak

- Development of cocoa plant varieties, clones and hybrids
- Development of groups and cocoa germplasm utilization
- Development of clonal varieties according to suitability and quality
- Dissemination of research information

Name of Varieties developed:

- Development of MARDI cocoa clonal varieties
KKM 1, KKM 2, KKM 3, KKM 4, KKM 5, KKM 7, KKM 15, KKM 17, KKM 19, KKM 22, KKM 25 and KKM28. (declared in 1984 and 1986)
- Development of new cocoa clonal varieties was continued by the Malaysian Cocoa Board
MCB C1, MCB C2, MCB C3, MCB C4 dan MCB C5

Impact of varieties to the industry:

- Mardi has initiated cocoa clonal materials since 1982 to improve mature unproductive and abandoned cocoa plants via mature grafting programs. During the early stage of the program, shoots for grafting were obtained from the best parents at the research stations/locality/farmers' fields.
- Only after selected clones have been certified will the plantings be expanded with the KKM material. KKM clones are the main clonal planting materials among smallholders in areas for development and rehabilitation of mature coca and new cocoa plantings.
- Cocoa rehabilitation planting programs was expanded tremendously to Sabah and Sarawak by the Malaysian Cocoa Board.
- Expansion of new cocoa planting areas had provided impact for production of dried cocoa and income of cocoa smallholders.
- Cocoa planting material is currently the main source of cocoa planting material in Malaysia.

Duration on commercialisation of varieties:

- Certification and production of KKM cocoa clonal variety from Mardi started in 1984 and was commercialised until 1999 when cocoa was handed over to the Malaysian Cocoa Board and continued until today.
- Production of new variety and certification by the Malaysian Cocoa Board had increased on the number of commercial varieties for farmers and cocoa growers in Malaysia.