

### Current Research Project

1. Collection of crop wild relatives (Crop Trust & Millenium Seed Bank, Kew)
2. Genesys database (Crop Trust)
3. Sustainable Utilization of Underutilized Taro to Increase Food Security and Improve Livelihoods of Marginalized Communities Faced with Climate Change (Benefit Sharing Fund, ITPGRFA)

### Research Partners



### For Further Information:

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# MyGeneBank™

## National Agrofood Genebank



## Introduction

MyGeneBank was established in 2014 with the objective to develop and disseminate technologies related to conservation and sustainable utilisation of agrobiodiversity resources. MyGeneBank is the only centre with the state-of-the-art facilities for conservation of plant genetic resources for food and agriculture (PGRFA) in Malaysia. It was equipped with seed storage with capacity of 200,000 accession and several research facilities with complement to conservation & utilisation themes. MyGeneBank consist on Rice Genebank in MARDI Seberang Perai, Penang, MyGeneBank Complex in MARDI Headquarters Serdang, Selangor and field genebank in several MARDI station namely Serdang, Jelebu, Jerangau, Kemaman, Sintok and Bintulu.

## Why MyGeneBank was established?

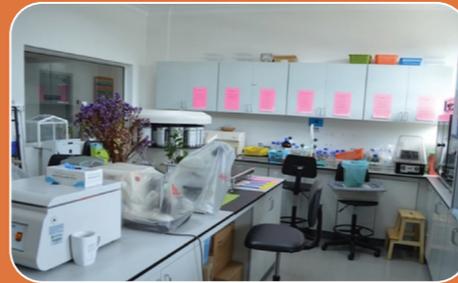
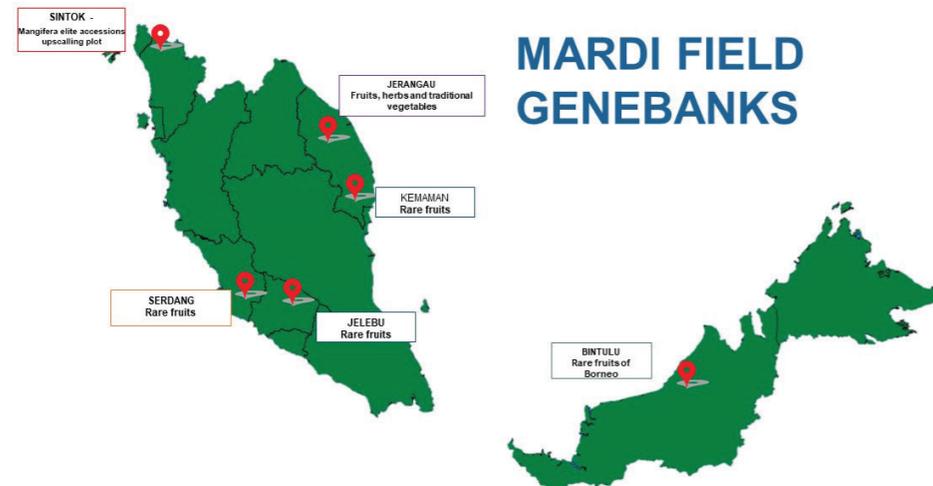
The need for a National Gene Bank was outlined in the National Strategies and Action Plan on Agricultural Biodiversity Conservation and Sustainable Utilisation (2012-2020). Given the need for conservation is focused on the genetic resources of agricultural crops and food security, a National Agrofood Gene Bank was planned in the 9<sup>th</sup> Malaysia Plan (since 2005) and was completed in the 10<sup>th</sup> Malaysia Plan (2013).

### Vision

To become the national focal point for plant genetic resources for food and agriculture (PGRFA).

### Mission

To conserve, manage and conduct research and development (R&D) on agricultural biodiversity of PGRFA, for future generations.



## How many PGRFA collection?

A total of 18,718 accession

- Rice (13,277)
- Fruits (3,087)
- Vegetables (1,781)
- Herbs & medicinal plants (486)
- Aroids / Yam (137)

## MyGeneBank activities

- Ex situ conservation
- Cryopreservation
- Tissue culture
- Nutritional/phytochemical analysis
- Genetic & molecular study

## Facilities available

- Cold room (3-5°C, 40% relative humidity)
- Seed laboratory
- Botany laboratory
- Histology laboratory
- Molecular laboratory
- Phytochemistry laboratory
- Cryopreservation laboratory
- MDI Herbarium
- Glasshouse
- Plant nurseries
- Field gene bank