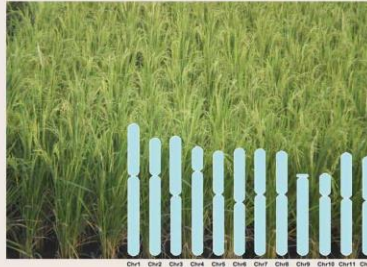
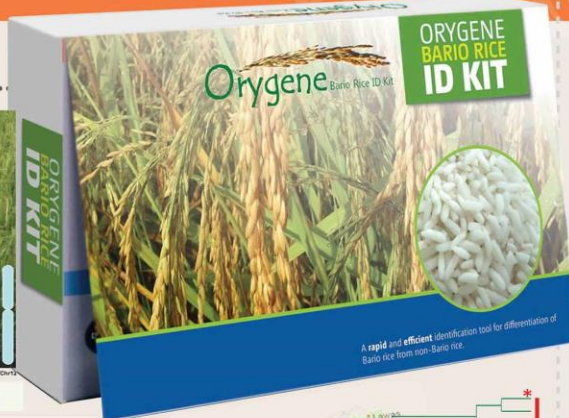
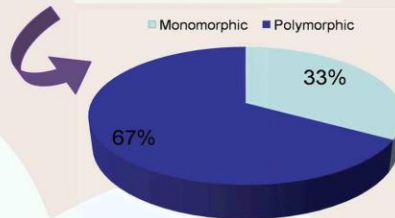


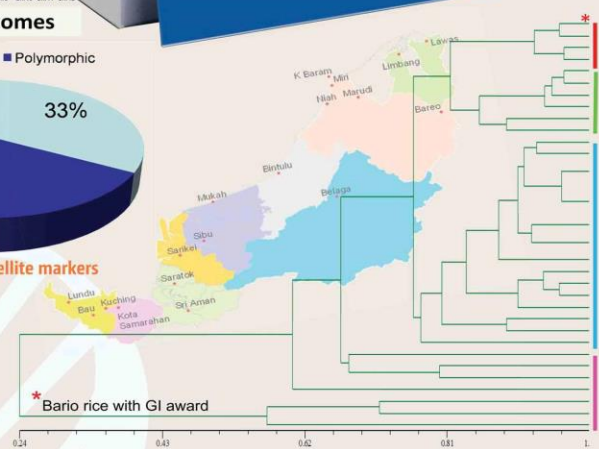
INVENTION



12 rice chromosomes



Screening of 54 polymorphic microsatellite markers



Genetic profiling of 35 rice samples claimed as Bario rice

INTRODUCTION

- Bario rice (Adan)
 - * Traditional specialty rice of Sarawak
 - * Geographical indication award by MyIPO in 2009
 - * International Presidia Award by Slow Food Foundation of Italy in 2002
- Bario Rice Certification Scheme (BRCS) based on GAP was initiated by DOA, Sarawak.
- No genotyping kit available for Malaysian specialty rice, particularly Bario rice.

Orygene Bario Rice ID Kit

- First genotyping kit for Malaysia's specialty rice
- 12 highly polymorphic loci amplification
- Extensive rice microsatellite profiles
- High discrimination power assay
- Effective cost and time savings

BENEFITS

- **SIMPLE, ROBUST & PRACTICAL**



	Tan et al. (2006)	Wong et al. (2009)	CURRENT INVENTION
No. of Assays	1	12	4
Rice Samples	3	8	35
PIC Content	0.67	0.5204	0.988
Time per assay (min)	105	1260	420
Cost per assay (RM)	RM4.74	RM55.85	RM20.29

USEFULNESS AND APPLICATION



POTENTIAL CONSUMERS

- Department of Agriculture, Sarawak
- BERNAS
- Rice researchers



Project Leader : Yiu Pang Hung (Ph.D)
 Researchers : Rajan Amartalingam (Ph.D.), Wong Sie Chuong (M.Sc.), Lee Hwei Hong (B.Sc.)
 Faculty : Agriculture and Food Sciences
 Email : yiu-ph@upm.edu.my
 Tel : 086.855.432
 Expertise : Biotechnology