Training
Marker Assisted Selection Workshop

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Objective

• Provide opportunity for breeding teams and molecular researchers to interact and become familiar with the research objectives and state of the technology in both disciplines
• Offered at the beginning of the RiceCAP program
• Symposium/lecture forum
Overview

• Molecular breeding vision from
  – International community
  – Another crop
  – Private industry

Overview

• How to’s
  – Review of terminology
  – Current info on marker genetic diversity in rice
  – Markers associations with specific traits
  – Marker development – opportunities and problems
  – Data management
  – Database resources
Overview

- How to’s
  - Fundamentals of breeding
  - Fundamentals of molecular breeding
  - How to sample tissue & dev. Mapping populations
  - Data analysis for QTL and marker mapping

Overview

- Future
  - Exposure to new technologies that may have impact during RiceCAP
  - Utilization of wild relatives and mutants – unconventional breeding materials
  - Micro-array technology
  - Transient assays for induced gene silencing
  - Transgenics
Enrollment

• Speakers
  – Outside – McCouch, Wing, Diers, Hookstra
  – RiceCAP –
• Participants – 90
  – Breeders – public and private
  – Pathologists
  – Industry
  – Molecular genetics
  – Post-docs
  – Technical staff
  – Graduate students

Plans for Workshop #2

• Summer 2006?
• Laboratory focus
• Methods
• Data analysis
• Who – “lab” staff from RiceCAP
  – Breeders, pathologists, etc