Objective 1. Year 1
Develop and Phenotype Mapping Populations, Develop Improved Phenotyping Methods Training Project Coordination

Anna McClung
USDA-ARS
Beaumont, TX

Rice Breeding/Phenotyping PI’s

Jodari
Moldenhauer
Jia
McClung
Linscombe/Oard

RiceCAP
Timeline

• Mid-Jan 2005 – PAG meeting: Establish data template structure, Outline comparative sheath blight screening test
• End Jan 2005 – Meet with Oard, statistical consultant, etc – Outline field experimental design and plan for statistical analysis
• Early Feb 2005 – summarize results of Rice Foundation study, identification of milling yield traits to focus on

• Late-Feb 2005 – Annual breeders meeting, present suggested plans for data template, data collection, experimental design, who is doing what when, modify protocols based upon feedback
• March 2005 – Distribute seed for MY 1 to cooperators
• April/May – late planting of MY1 in AR and LA, Initiate cooperative sheath blight test
Timeline

- June 2005 – Present MAS selection workshop, Stuttgart/Beaumont
- Aug/Sept 2005 – Begin field data collection in AR and LA of MY1, summarize results in sheath blight screening method test, begin genotyping
- Oct 05 – Feb 06 – harvest MY1 samples, sample analysis (grain dimen, grain chemistry), data documentation, verification, submission

McClung Budget Year 1

- $1500 travel McClung, Fjellstrom – Tucson and PAG
- $25,000? – lecture/lab MAS workshop (Stuttgart/Beaumont), hand out materials, travel for lecturers and some trainees, lab materials, in conjunction with Rod Wing (NRI)
- (ARS will provide plant pathologist for sheath blight screening)
Jodari Objective 1. CAP Efforts

- Feb. – Hire Postdoc for participation in CAP project.
- Participate in CAP field planning meeting in conjunction with annual breeder’s meeting.

RiceCAP

Jodari Objective 1. CAP Efforts

- Jan - July - Develop hydration chamber with controlled temperature, relative humidity, and sufficient capacity to induce up to 95% fissuring of fissuring susceptible parental line, RT0034

RiceCAP
Jodari Objective 1. CAP Efforts

• June - Participate in MAS training workshop – breeder, Post-Doc, technician

• By Sept – Finalize protocol for screening 400 lines from MY 1 that were grown in AR and LA for response to induced fissuring
Jodari Objective 1. CAP Efforts

- Utilize winter greenhouse, summer nurseries, and winter nurseries to develop and advance MY 3 population by selfing

Jodari Budget Year 1

- $29,040 Post-doc
- $6600 – materials and supplies for fissuring chamber and protocol
- $1500 – travel to MAS workshop
- $5000 – Hire technician to help with sample evaluation
Following Presentations

• Karen Moldenhauer – AR phenotyping and genotyping effort
  – Jim Oard – LA population development, phenotyping efforts, sheath blight protocol
  • Yulin Jia – sheath blight screening method and TIL genotyping
    – Molecular Efforts – Hulbert, et al