

Collated Feedback for Brainstorming – Group A

<i>Category</i>	<i>Outputs</i>
Traits and phenotyping	Protease inhibitors, osmotic adjustment
Traits and phenotyping	Heat stress and root traits
Traits and phenotyping	Salinity, cold, flooding tolerance
Traits and phenotyping	Disease resistance
Traits and phenotyping	Model-assisted phenotyping
Traits and phenotyping	Ex ante analysis
Genetic basis	Understanding allelic diversity
Genetic basis	LD and association mapping in wheat and other polyploids
Genetic basis	Standardized agreed best practices for QTL linkage and association mapping (iMAS)
Genetic basis	Functional annotated rice genes validated through expression studies, mutagenesis and targeted activation/disactivation (and associated easy to use well linked databases)
Genetic basis	Linking markers with functional genes
Genetic basis	
Genetics and genomics resources	Tilling platform
Genetics and genomics resources	Candidate genes and candidate gene database – initial focus on simpler drought stress profiles
Genetics and genomics resources	SNP markers and SNP database
Genetics and genomics resources	Chips for all crops (and fish for some ...!)
Genetics and genomics resources	BAC libraries in non-cereal crops
Genetics and genomics resources	More markers for orphan crops
Genetics and genomics resources	Composite collection seed and DNA available for all
Genetics and genomics resources	Mutant stocks
Genetics and genomics resources	COS marker datasets and allele mining strategies in orphan crops
Software and data management	Plant ontologies
Software and data management	Holistic integrated databases

Software and data management	Core marker sets (including gene-based markers) for diversity analysis
Breeding tools (including MAS)	Strategies for introgressing exotic germplasm
Breeding tools (including MAS)	Low tech low cost assays for NARS across all crops - simple agarose gel-based markers for national programs – sampling methods – DNA extraction
Breeding tools (including MAS)	Robust experimental designs and data analysis protocols
Breeding tools (including MAS)	Marker-accelerated breeding with transgenes
Breeding tools (including MAS)	MAS feasibility studies
Breeding tools (including MAS)	Databases of MAS successes and failures
Capacity building	Understanding biotech acronyms
Capacity building	Training in mixed models
Capacity building	On-line discussion fora
Capacity building	Training in mutant creation
Capacity building	Proposal writing
Policy and IPR	