

**Hands on Training-cum-Workshop:
Application of Biotechnology in Agriculture
9th -20th June 2008**

| S. No. | Day/Date | 9:30-11:00 | 11:00-11:15 | 11:15-12:45 | 12:45-1:30 | 01:30-5:30 (practical) |
|---------------|------------------|--|--------------------|--|-------------------|---|
| 1. | Mon. June 9 | Inaugural session (Introduction of course, guidelines and manual distribution) | Tea Break | Marker Assisted Breeding with special reference to disease resistance in Rice (L) | Lunch | Isolation, purification and characterization of fungal culture (P) |
| 2 | Tue. June 10 | Applications and handling of GLC & HPLC (L) | Tea Break | Sample preparation and analysis by GC (P) | Lunch | (P) Contd... |
| 3 | Wed. June 11 | Use of NIRS and ELISA (P) | Tea Break | Sample preparation and analysis by HPLC (P) | Lunch | (P) Contd... |
| 4 | Thu June 12 | Development and application of molecular markers (L) | Tea Break | Visit to TERI Gram, collection of samples for DNA extraction (P) | Lunch | (P) Contd... |
| 5 | Fri June 13 | IPR & Biosafety issues in biotechnology (L) | Tea Break | Integration of GMO's in crop improvement: IPR and PPV&FR implications (L) | Lunch | Preparation of buffers and reagents for DNA extraction (P) |
| 6 | Sat June 14 | Plant DNA extraction (P) | Tea Break | (P) Contd.. | Lunch | (P) Contd.. DNA dilution and quantification |
| 7 | Monday June 16 | Preparation of reagents for setting PCR (P) | Tea Break | Contd... | Lunch | Polymerase Chain Reaction: Principle and Applications (L) + (P) Contd.. |
| 8 | Tue June 17 | Gel loading and detection of polymorphism (P) | Tea Break | (P) Contd.. | Lunch | Scoring data and analysis (P) |
| 9 | Wed June 18 | Application of embryo culture & doubled haploid in crop improvement (L) | Tea Break | Media preparation (P) | Lunch | Visit to Phytotron GMO's quarantine facility (P) |
| 10 | Thursday June 19 | Microspore isolation (P) | Tea Break | (P) Contd... | Lunch | Microspore washing and culture (P) |
| 11 | Fri June 20 | Observations & Diploidization (P) | Tea Break | Concluding session Certificate distribution | Lunch | |

