

Dr. P. REVATHI

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1. Personal bio-data:

a) Position/Designation : Scientist

b) Joining date in ICAR : June 26th, 2008, (DOB: 22/05/1980)

c) Discipline and Specialization : Plant Breeding

d) Training/advance exposure in the area of work:

- Hybrid Rice Seed Production Technology Training, Nov 3rd, 2008 – Nov 7th, 2008, DRR.
- Data Analysis using SAS, Dec 13th -18th, 2010. NAARM, Hyderabad.
- Bt rice evaluation and deployment strategies, Sep 7th – Sep 27th, 2011, DRR, Hyderabad.

e) Contribution to the scientific advancement:

- Two highly effective genes for leaf rust resistance viz., Lr24, Lr28 and a stripe rust resistance gene Yr15 were pyramided in the background of a susceptible but high yielding bread wheat variety HD2877.

2. Future Planning of research:

- Molecular breeding for parental line improvement in hybrid rice with special emphasize on fertility restoration, wide compatibility and disease resistance.
- Conversion of partial restorers to restorers by marker assisted introgression of Rf4 & rf3 genes.
- Marker assisted recurrent selection(MARS) for biotic stress improvement in hybrid rice

3. Publications:

- **Revathi, P.**, Tomar, S.M.S., Vinod and Singh, N.K. **2010**. Marker assisted gene pyramiding of leaf rust resistance genes Lr24, Lr28 along with stripe rust resistance gene Yr15 in wheat (*Triticum aestivum* L.). *Indian J. Genet.*, **70(4)**: 349-354.
- **Revathi, P.**, Arun Kumar Singh, Sundaram, R.M., Senguttuvel, P., Kemparaju, K.B., Hariprasad, A.S. and Viraktamath, B.C. **2010**. Molecular screening for the presence of wide compatibility gene S5 neutral allele in the parental lines of hybrid rice. *Indian J. of Genet.* **70(4)**: 373-376.
- Sundaram, R.M., Sakthivel, K., Hariprasad, A.S., Ramesha, M.S., Viraktamath, B.C., Neeraja, C.N., Balachandran, S.M., Shobha Rani, N., **Revathi, P.** Sandhya, P. and Hari, Y. **2010**. Development and validation of a PCR-based functional marker system for the major wide-compatible gene locus S5 in rice. *Mol. Breeding.* **26**:719–727
- Ramesha, M. S., HariPrasad, A.S., **Revathi, P.**, Senguttuvel, P. and Viraktamath, B.C. **2009**. Rice hybrids released in India, Technical bulletin No.40, Directorate of Rice Research (ICAR), Hyderabad, India. 44pp.
- Hariprasad A. S., Senguttuvel P., **Revathi P.**, Kemparaju K.B., Shobha Rani N. and Viraktamath, B.C. **2011**. Hybrid rice in India, Technical bulletin No.56, Directorate of Rice Research (ICAR), Hyderabad, India. 57pp

4. Other relevant activities of Scientist:

- Assisting in Co-ordination of AICRIP crop improvement trials.
- Resource person in various training organized by DRR
- Member in institute aesthetic committee
- Member in PPVFR task force.