

Dr. KEMPARAJU. K. B.

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1. Personal bio-data:

- a) **Position/Designation** : **Scientist**
b) **Joining date in ICAR** : **10-02-2009, (DOB: 22/07/1981)**
c) **Discipline and Specialization** : **Plant Breeding**
d) **Training/advance exposure in the area of work:**

- Training on “**Quality control of basmati rice**” sponsored by Export Inspection Council of India, New Delhi and organized by Directorate of Rice Research, Hyderabad from 1st to 7th August, 2009.
- Attended training programme on “**Data Analysis using Statistical Analysis System (SAS)**” under Strengthening Statistical Computing for NARS (SSCNARS) programme of NAIP (National Agricultural Innovation Project) and organized at National Academy of Agricultural Research Management (NAARM), Hyderabad from September, 2010.
- Participated in winter school on “ **Molecular techniques in gene identification and characterization**” sponsored by the Indian Council of Agricultural Research and organized by National Research Centre on Plant Biotechnology, New Delhi during 8th to 28th, 2010

e) Contribution to the scientific advancement:

- Development an array of maintainers with better grain quality, higher outcrossing ability, multiple disease/insect pest resistance and improved plant type traits through genetic male sterility facilitated recurrent selection.
- It is identified that, in addition to digenic and higher order interactions, additive and dominance gene effects are also important for grain yield and its related traits.
- Evaluation of green super rice material for different traits developed at china and IRRI for further utilization in India.
- Using SSR marker linked to S5 locus, identifying and deployment of WC genes for development of indica-japonica hybrids.

2. Future Planning of research:

- Genetic improvement of maintainers lines in hybrid rice parental line improvement programme.
- Development of CMS line resistance to major pest and disease.
- Breeding of parental lines and hybrids suited to aerobic and salinity/alkalinity conditions.

3. Publications:

- K B Kemparaju, D K Yadava, Sujata Vasudev, Anil Kumar Yadav, Bhagwan Dass, S C Giri and K V Prabhu 2009. Genetic analysis of yield and yield-attributing traits in Indian mustard (*Brassica juncea*), *Indian J. Agril. Sci.*,79 (7): 555-58.
- P. Revathi, Arun Kumar Singh, R. M. Sundaram, P. Senguttuvel, **K. B. Kemparaju**, A. S. Hariprasad and B. C. Viraktamath, 2010. Molecular screening for the presence of wide compatibility gene S5 neutral allele in the parental lines of hybrid rice, *Indian J. Genet.*, 70(4): 373-376.
- Mangal Sain, Hariprasad AS, Muthuraman P, Senguttuvel P, **Kemparaju K.B.** and Viraktamath BC, 2010. Hybrid Rice Production Technology, Directorate of Rice Research, Hyderabad. Pp. 1-238. (Technical bulletins/books)

4. Other relevant activities of Scientist:

- Co-ordination and rice varietal improvement