

Dr. SUNEETHA KOTA

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1. Personal bio-data:

- a) Position/Designation : Scientist**
- b) Joining date in ICAR : 10-02-2009**
- c) Discipline and specialization : Plant Breeding**

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

1. 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.
2. Participated in Eighth Centre for Excellence in Genomics (CEG) training Course on **“Application of Molecular Markers for Crop Improvement”** sponsored by the Department of Biotechnology and organized by International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad from 8th to 19th November, 2010.
3. Participated in winter school on **“Genetic enhancement in field crops for input use efficiency and tolerance to abiotic stresses”** sponsored by the Indian Council of Agricultural Research and organized by Dept. of Plant Breeding at Directorate of Human Resource Management, CCS Haryana Agricultural University, Hisar from October 15 to November 4, 2009.
4. 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 24th to 30th November, 2010.

e) Contribution to the scientific advancement (in about five bullets) :

- Associated in the identification of new gall midge resistance gene (GM-11) in the breeding line CR57-MR1523
- Pyramiding of genes for gall midge: GM1 (Kavya) and GM 4 (Abhaya), BLB: Xa 21, xa13 and xa5 (B 197) and blast:Pi2 (C101AS) and Pikh (Tetep) were introgressed into BPT 5204 and IR 64 through marker assisted backcross breeding.
- Stable and responsive genotypes DL 886, DL 893, DL 901, DL 908, DL 940, DL 966, and DL 960 in wheat suitable for expression of yield and quality traits across locations were identified.
- “Promotion of productive high quality *G. arboreum* cotton to meet the needs of the cultivators of rainfed ecosystem vis-à-vis textile industry” viz., PA 402, PA255, MDL 2463 and DLSA-17 as a part of NATP project at Mudhole.

2). Future Planning of research (in bullets) :

- Identification of genotypes suitable for conservation agriculture
- Genetic enhancement of quality rice varieties through conventional and molecular breeding approaches
- Host plant resistance to gall midge in rice
- Breeding of parental lines and hybrids suited to aerobic and salinity/alkalinity conditions.

3). Publications (best five) :

- 1) Himabindu, K., **Suneetha, K.**, Sama, V. S. A. K. and Bentur, J.S. (2010). A new rice gall midge resistance gene in the breeding line CR57-MR1523, mapping with flanking markers and development of NILs. *Euphytica*, 174:179–187
- 2) Himabindu, K., **Suneetha, K.**, Sama, V. S. A. K., Cheralu, C., Rao C.R.M. and Bentur, J.S. (2009). A new rice gall midge resistance in rice variety MR1523. *Rice Genetics Newsletter*, P.73
- 3) Pradeep, T., Lakshman, S., Sumalini, K., Bhaskar Reddy, B. and **Suneetha, K.** (2005). Promotion of productive high quality *G. arboreum* cotton to meet the needs of cultivators of rainfed ecosystem vis-s-vis textile industry. *J. Indian Society of Cotton Improvement*, **30(2)**:85-93.
- 4) S.S.Singh and **Suneetha, Kota**, 2007. Chapter entitled “Breeding field crops (cereals)” in e-book entitled “Genetics and Plant Breeding”. National Science Digital Library, NISCAIR, New Delhi.
- 5) Shobha Rani N, G.S. Varaprasad, L.V. Subba Rao, I Sudharshan, A.S. Hari Prasad, A.S.R. Prasad, T. Ram, V. Ravindra Babu, G. Padmavathi, Vijaipal Bhadana, **K. Suneetha** and B.C. Viraktamath, 2011. High yielding rice varieties of India, II edition, DRR Technical Bulletin, DRR Technical Bulletin No: 55/2011, DRR, Hyderabad, Pages 192

4). Other relevant activities of Scientist :

- Co-ordination and rice varietal improvement
- Member of the Editorial Committee of DRR News Letter
- Member of maintenance work committee
- Member of the committee on collection of quotations for various equipment