

**Dr. L.V. SUBBA RAO**

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### **1. Personal bio-data:**

- a) **Position/Designation** : **Principal Scientist**
- b) **Joining date in ICAR** : **9<sup>th</sup> October 1990, DOB: 01/06/1961**
- c) **Discipline and Specialization** : **Plant breeding with specialization in Seed Technology**
- d) **Training/advance exposure in the area of work:**

- Participated in the UNDP sponsored three months training programme on Hybrid Rice Technology at HRRC, Changsha, China from September 17<sup>th</sup> to December 8<sup>th</sup> 1995.
- Participated in short course on G x E analysis and interpretation of results and hands on training on International Rice Information System (IRIS) for plant breeders at IRRI, Philippines- from 6-24<sup>th</sup> August, 2001.
- Participated in the Refresher Course on Information Technology in Agriculture at NARAM, Rajendranagar, Hyderabad during July 31<sup>st</sup>-August 20<sup>th</sup> 2002
- Participated in training on “Advance Breeding Methods” at IRRI, Philippines during 30<sup>th</sup> July to 14<sup>th</sup> August 2008.
- Participated in Training programme on “Testing for Distinctness, Uniformity and Stability” for Plant Variety Protection, 4-10<sup>th</sup> October 2002, organized by DSST, IARI, New Delhi.
- Attended the Training course on Research Station Management , organized by ICRISAT , 11<sup>th</sup> -16<sup>th</sup> October 2010
- Participated in Professional Development Program for Technology Managers (PDP-TM), organized by Society for Technology Management (STEM), Hyderabad, 19-21 Aug, 2009.
- Attended the Training Programme on “ Employees ‘ perspective on labour related laws” organized by NAARM, Hyderabad, February 17-19<sup>th</sup> 2011.

### **e) Contribution to the Scientific advancement:**

- Associated in development of three high yielding rice varieties i.e., Krishna Hamsa, Triguna and Shanti

- Associated in developing National DUS test guidelines and descriptors for DUS Tests in Rice
- Associated in developing and standardizing the Hybrid Rice Seed Production Technology in general and specifically, Development of hybrid seed production package for rice hybrids and parental lines multiplication.
- Under taken seven collection expeditions for rice germplasm in Bastar and Raigarh regions of chhattisgarh state, Adilabad, Khammam, Nizamabad, Medak of Andhra Pradesh and bordering areas of Karnataka, Maharashtra and Orissa resulting in a collection of 679 accessions belonging to O.sativa and o.nivara.
- Characterization of more than 5000 germplasm accessions for agro-morphological and quality traits .
- Achieved 25% more than the targeted production of breeder seed of 10-12 rice varieties and parental lines of two rice hybrids since 1992 at DRR and an amount of Rs 46.00 lacs of net profits have been accrued from the sale proceeds of breeder seed since 1996 under NSP- revolving fund.

## 2. Future Planning of research :

- Development of high yielding rice varieties suitable for Boro areas
- Development of national Rice resource Data base
- Development of trait specific mini cores from the large collection of germplasm .
- To explore the genomic technology for enhancing seed quality.
- To ensure the spread of newly released varieties and hybrids through quality seed production and dissemination.
- Establishment of digitized database of Reference collection of Varieties (RCVs) for DUS tests.

## 3. Publications:

- **Subba Rao LV**, G.S.V. Prasad, U.Prasada Rao, A.S.Rama Prasad, T.L. Acharyulu and S. Ramakirshna, 2001. Collection, characterization and evaluation of rice germplasm from Bastar region. Indian Journal of Plant Genetic Resource. Vol. 14(2): 222-224.
- Vijayakumar C.H.M., N. Shobha Rani, **L.V. Subba Rao**, R. Mahender Kumar, S.R. Voleti, B.C. Viraktamath and B. Mishra, 2006. Breeding for high yielding rice (*Oryza sativa* L.) varieties and hybrids adapted to aerobic (non-flooded, irrigated) conditions – II Evaluation of released varieties. Indian Journal of Genetics and Plant Breeding 66 ( 3): 182-186.
- Prasad Rao U, B. Mishra, **L.V. Subba Rao**, G.S.V.Prasad and N.Shobha Rani. 2001. Collective utilization of germplasm resources for rice varietal improvement. Indian Journal of Plant Genetic Resources. Vol. 14(2): 231-233.
- Shobha Rani N, MS Madhav, Manish K Pandey, RM Sundaram, GSV Prasad, I Sudharshan, **LV Subba Rao** and V Ravindra Babu (2008) Genetical and molecular

approaches for improvement of quality traits in rice (*O. sativa* L.), Indian J. Crop Science, 3(1): 1-14

- Subhakara Rao I, B Srikanth, V Hemanth Kishore, P Balaji Suresh, U Chaitanya, LR Vemireddy, SR Voleti, **LV Subba Rao**, N Shobha Rani, RM Sundaram, MS Madhav, SM Balachandran, GSV Prasad, BC Viraktamath and CN Neeraja. 2011. Indel polymorphism in sugar translocation and transport genes associated with grain filling of rice (*Oryza sativa* L.). Molecular Breeding. (DOI10.1007/s/11032-011-9618-2) online on 28.9.2011

#### **4. Other relevant activities of Scientist:**

Co-ordination and rice varietal development.

- Organizing and coordination of the breeder seed production as per DAC indents
- Conducting Distinctness, uniformity and stability (DUS) tests in rice
- Officer incharge of research farm of DRR located in the ICRISAT campus
- Chairman of Works Committee and member of several other committees such as
- Member of the Price fixation, contract works and contract research committee
- Member of the Finance and Expenditure committee
- Member of the Data base management committee
- Member of the Canteen committee