Dr. C. N. NEERAJA

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1. Personal bio-data:

a) Position/Designation : **Principal Scientist**

b) Joining date in ICAR : **20.2.1995, (DOB: 27/08/1968)**

c) Discipline and Specialization : **Plant Biotechnology (Molecular Breeding)**

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

- Crop Gene Expression Analysis and structural Bioinformatics,1-11,March 2011,NBPGR, New Delhi and National Agricultural Bioinformatics Grid (NAIP).
- Data Analysis using SAS, 19-25, January 2011, NAARM, Hyderabad and NAIP.

e) Contribution to the scientific advancement:

- Identification two candidate genes viz., sucrose phosphate synthase and sucrose transporter for grain filling in rice
- Fine mapping of Rf4 and Rf3 loci for fertility restoration of WA-CMS in rice
- Identification of candidate gene for rice tungro virus resistance QTL
- Identification of three genomic regions associated with zinc uptake in rice grains
- Functional validation of identified candidate gall midge resistance genes

2. Future Planning of research :

- Identification of candidate genes for grain filling in rice
- Identification of genomic regions for Nitrogen use efficiency
- Development of marker system for restorers and maintainers for WA-CMS
- Development of rice tungro virus resistant varieties
- Development of varieties with high zinc content in the grains

3. Publications :

- Subhakara Rao I, B Srikanth, V Hemanth Kishore, P Balaji Suresh, U Chaitanya, LR Vemireddy, SR Voleti, LV Subbarao, 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.*** corresponding author**
- Singh N, TTM Dang, GV Vergara, DM Pandy, D Sanchez, **CN Neeraja**, EM Septiningsih, M Mendioro, EM Tecson-Mendoza, IM Abdelbagi, DJ Mackill and S Heuer. 2010. Molecular marker survey and expression analyses of the rice submergence-tolerance gene SUB1A. Theor Appl Genet.121: 1441-1453
- Upadhyay P, VK Singh and **CN Neeraja**. 2011. Identification of genotype specific alleles and molecular diversity assessment of popular rice (Oryza sativa L.) of India. International Journal of Plant Breeding and Genetics 5: 130-140
- **CNNeeraja**, V.Lakshmi Narayana Reddy, S. Malathi and E.A. Siddiq.2009 Identification of alternate dwarfing gene sources to widely used Dee-Gee-Woo-Gen allele of sd1 gene by molecular and biochemical assays in rice (Oryza sativa L.) Electronic Journal of Biotechnology 12(3) 11pages
- **CNNeeraja,** RMaghirang-Rodriguez, A Pamplona, S Heuer, BCY Collard, EM Septiningsih, G Vergara, D Sanchez **,** AM Ismail and DJ Mackill 2007. A marker-assisted backcross approach for developing submergence-tolerant rice cultivars. Theor Appl Genet 115 :767-776

4. Other relevant activities of Scientist:

Acting as Treasurer for the Society for Advancement of Rice Research, DRR