

SCIENTIST PROFILE



1. Name & Designation : J. Meher, Scientist (Sr. Scale)
2. Date of Birth : 25th November, 1969
3. Date of joining ICAR : 21st April, 1997
4. Date of joining the present post : 21st April, 2006
5. Qualification (highest degree) : M.Sc. (Ag) Plant Breeding & Genetics
6. Post Doctoral Research Experience/Training:
 - Took training at IRRI, Philippines for 3 months w.e.f. 1st September to 30th November 2012 on “Phenotyping for high temperature and other abiotic stress tolerance and SNP genotyping in rice” under the NAIP Project ‘Bioprospecting of genes and allele mining for abiotic stress tolerance’
7. Area of Specialization/research interest:
 - Plant Breeding & Genetics (conventional plant breeding) with minor in stress physiology
 - Breeding for Nitrogen use efficiency (NUE) and reproductive stage heat tolerance in rice since last 5-6 years.
8. Significant Contribution including products and patents (Five bullets):
 - Identification of tolerant genotypes for reproductive stage heat stress under field conditions by delayed sowing from 700 germplasm of hotter region and validation is under progress in controlled conditions.
 - Identification of high Nitrogen use efficient genotypes of medium and late duration by screening 60 very popular HYVs for five consecutive years based on agronomic NUE.
 - Developed lines using high NUE genotypes that performed well under moderate N level (40 during *kharif* and 60 during *rabi*) with grain yield of > 5.2 t/ha in station trials at CRRI, Cuttack.
 - Developed lines that performed well with grain yield of 5.5t/ha and above with high temperature stress tolerance i.e .with high spikelet fertility during dry season under delayed sowing and has been promoted to advanced trial under all India testing.
 - Developed and release 3 varieties for deep and semi deep rice ecologies of Odisha, West Bengal and Eastern U.P. (CR Dhan 500, Jalamani and Jayanti Dhan) in collaborative mode and also many advanced line under different stages of testing.
9. Awards/Honours:
 - National Talent research Scholarship at 7th standard (1982) and stood 2nd in Sambalpur district, Odisha.
 - Junior Research Scholarship (JRF 1991) for pursuing M.Sc (Ag) in Plant Breeding & Genetics conducted by ICAR
 - Qualified for National Eligibility Test (NET) conducted by ICAR in PLANT BREEDING in the year 1994, 1996.
10. Publications (10 best):
 - i. Pradhan SK, Singh S. Singh ON, Rao GJN, Dash SK, Behera L, Pande K, Bose LK, **Meher J**, Mall AK, Das KM, Dhua SR and Baig MJ (2012). A deepwater rice variety, CR Dhan 500. **Indian Journal of Genetics** 72(1): 107-108.
 - ii. Rath PC, **Meher J** and Subudhi HN (2010). Field evaluation of improved rice genotypes against Yellow Stem Borer under zero and high level of nitrogen. **Oryza** 47(4): 337-339.

- iii. Subudhi HN, **Meher J** and Behera KS (2010). Performance of promising rice varieties in late planted conditions. **Bulletin of Pure and Applied Sciences** 29B(2): 93-96.
- iv. **Meher J**, Dani RC and Subudhi HN (2009). Field screening of improved rice genotypes against rice Gall midge (*Orseolia oryzae* Wood-Mason). **Oryza** 46(1): 48-52.
- v. **Meher J** and Subudhi HN (2009). Genetic divergence in popular modern rice varieties of Eastern India. **Bulletin of Pure and Applied Sciences** 28B(1-2): 35-45.
- vi. Subudhi H.N and **Meher J** (2009). Variability and character association of quality characters in upland rice of Eastern India. **Bulletin of Pure and Applied Sciences** 28B (1-2): 1-7.
- vii. Subudhi HN, **J Meher**, Bose LK and Das Sanjukta (2009). Genetic diversity studies of promising rice varieties of Eastern India based on quality characters. **Oryza** 46 (4):271-274.
- viii. Poonam Annie **and J Meher** (2009). Genotype x environment interaction in hybrid rice for yield and its component traits. **Current Advances in Agricultural Sciences** 1(2): 73-76.
- ix. Subudhi HN, **Meher J** and Bose LK (2008). Stability Analysis for Grain Yield in Some Rice Varieties. **Environment & Ecology** 26(4c): 2199-2201.
- x. Pradhan SK, Bose LK and **J Meher** (2006). Gene action and combining ability analysis in Basmati rice. **Journal of Central European Agriculture** 7(2): 267-272.