

## SCIENTIST PROFILE



1. Name & Designation : Dr. Sushanta Kumar Dash  
Senior Scientist
2. Date of Birth : 13<sup>th</sup> January, 1969
3. Date of joining ICAR : 4<sup>th</sup> June, 2009
4. Date of joining the present post : 4<sup>th</sup> June, 2009
5. Qualification ( highest degree) : Ph.D
6. Post Doctoral Research Experience/Training:
  - “Molecular Techniques in Gene Isolation and Characterization” held at NRCPB, New Delhi w.e.f. 8th to 28th November, 2010.
  - “Micro propagation/tissue culture techniques in crop plants”, held at Marathwada Agricultural University, Parbhani, Maharashtra w.e.f. 14<sup>th</sup> Sept. 2005 to 4<sup>th</sup> Oct.2005
7. Area of Specialization/research interest: Plant Breeding
  - Development of super rice and high yielding rice for irrigated situation.
  - Development of rice for water limiting situations viz., drought and aerobic situation.
8. Significant Contribution including products and patents (Five bullets):
  - Released Rice Variety CR Dhan 305 for Jharkhand, Maharashtra and Andhra Pradesh with moderate resistance to leaf blast, BPH and WBPH and long slender grains; Variety CR Dhan 304 for Odisha and West Bengal with resistance to GM biotype 1; Hue for Odisha with long slender grains and resistance to sheath rot, RTV, neck blast and gall midge for irrigated mid early situation.
  - Released Rice Variety CR Dhan 204 for Jharkhand and Tamil Nadu with moderate resistance to leaf blast and good grain quality characteristics for Aerobic situation
  - Released Rice Variety CR Dhan 505 with medium slender grains for Odisha and Assam; Jalamani for Odisha; CR 500 for Odisha and U.P. with moderate kneeing ability and elongation ability, moderately resistant to leaf blast, neck blast, brown spot, gall midge biotype1 & 5, stem borer dead heart & white ear head under deep water situations.
  - Developed two genotypes of *Brassica juncea* with high oil content (>40%) and three turmeric genotypes with high rhizome yield.
9. Awards/Honours:
  - University Gold Medal(BHU) in M. Sc. (Ag.) in Genetics and Plant Breeding
  - Qualified Graduate Aptitude Test in Engineering (GATE)
  - UGC fellowship (J.R.F. & S.R.F.) in 1995-1998
10. Publications (10 best):
  - i. Behera L, Mohanty S, Pradhan SK, Singh S, Singh ON, Sahu RK, Sahu SC, **Dash SK** and Mohapatra T (2013). Assessment of genetic diversity of rainfed lowland rice genotypes using microsatellite markers. **Indian Journal of Genetics and Plant Breeding** 73(2): 142-152.
  - ii. Das B, **Dash SK**, Das S and BC Saha (2012). Effect of boron on pollen sterility in wheat (*T. aestivum* L.). **Indian Journal of Genetics and Plant Breeding** 72(3): 367-371.
  - iii. 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 and Plant Breeding** 72(1):107-108.

- iv. Mall AK, Pradhan SK, **Dash SK** and Singh ON (2012). Aerobic response index and diversity analysis for identification of aerobic rice donor parents. **Oryza** 49 (2) (Accepted).
- v. **Dash SK**, Pradhan SK, Mall AK, Singh ON and Rao GJN (2011). Screening of potential donors for development of New Plant types in irrigated rice (*Oryza sativa*) in Eastern India. **Journal of Crop and Weed Science** 7(2): 74-79.
- vi. Roy SK, Haque S, Kale V A, Asabe DS and **Dash SK** (2011). Variability and character association studies in rapeseed-mustard (*Brassica* sp.) **Journal of Crop and Weed Science** 7(2): 108-112.
- vii. **Dash SK**, Singh J, Prasad LC and Raut and SS (1998). Genetic divergence in rain fed barley (*Hordeum vulgare* L.). **Madras Agricultural Journal** 58(10-12): 504-507.
- viii. Mishra PJ, Behera B, **Dash SK** and Sahu D (1998). Evaluation of vegetative filter strips for stabilization of small gullies in North Eastern Ghat Zones of Orissa. **Indian Journal of Soil and Water Conservation** 26(1): 61-62.
- ix. Mishra D and **Dash SK** (1997). Diversity and stability in aromatic rice. **Indian Journal of Agricultural Sciences** 67(1)27-29.
- x. **Dash SK**, Behera B, Mishra PJ and Sahu D (1997). Evaluation of planting methods for *in situ* moisture conservation and establishment of forest trees in North Eastern Ghat Zones of Orissa. **Indian Journal of Soil and Water Conservation** 25(3): 253-255.