

## SCIENTIST PROFILE



1. Name & Designation : Bishnu Charan Marndi, Scientist (SG)
2. Date of Birth : 9<sup>th</sup> July 1967
3. Date of joining ICAR : 7<sup>th</sup> September 1998
4. Date of joining the present post : 7<sup>th</sup> September 2008
5. Qualification ( highest degree) : M.Sc., M.Phil (Botany)
6. Post Doctoral Research Experience/Training: Nil
7. Area of Specialization/research interest : Economic Botany (Genetic Resources) & Plant Breeding
8. Significant Contribution including products and patents (Five bullets):
  - Exploration and collection of cultivated and wild rice germplasm from different parts of country *viz.* rescue mission, trait specific collection, medicinal rice, hill rice, boro rice, aman rice, bao rice etc. during 1998 to 2012. In total 18 exploration trips were undertaken and 1303 accessions of cultivated and wild rice germplasm were collected.
  - Twenty one thousand one hundred two (21102) rice samples of cultivated and wild species were shared to researchers. Out of 21102 samples, 12358 samples were supplied to different scientists within the institute. Eight thousand seven hundred and forty four (8744) accessions of cultivated and wild rice germplasm were shared to different institutes/ organizations
  - The compilation of data on passport characters are brought out for 29096 accessions collected and / or acquired at CRRI and three volumes of passport data catalogues have been published, a set of which has been submitted to the Director, NBPGR, New Delhi
  - Six rice germplasm Khadara (PD-33) INGR-08108, Atiranga (RM5/232) INGR-08109, Kalaputia (PCP- 01) INGR-08110, Gangasiuli (PB-265) INGR-08111, Mahulata (PB-294) INGR-08112 and Kusuma (PD-75) INGR-08113 have been registered by Plant Germplasm Registration Committee of Indian Council of Agricultural research on 9th July 2008 and some more are being deposited for registration
  - Four rice varieties namely CR Dhan 402 (Luna Sampad) IET 19470, CR Dhan 403 (Luna Suvarna) IET 18697, CR Dhan 405 (Luna Sankhi) IET 21237 and CR Dhan 406 (Luna Barial) IET 19472 are released by State Variety Release Committee (SVRC) for coastal saline areas of Odisha
9. Awards/Honours: Nil
10. Publications (10 best) :
  - i. Mohanty A, **Marndi BC**, Sharma SG and Das A (2011). Biochemical characterization of two high protein rice cultivars from Assam collections. **Oryza** 48(2): 171-174.
  - ii. Patra BC, Dhua SR, **Marndi BC**, Nayak PK, Swain P, Kumar GAK and Singh K (2008). Exploration, collection, characterization, evaluation and conservation of wild rice germplasm of east India. **Oryza** 45(2): 98-102.
  - iii. Patra BC and **Marndi BC** (2006). Rice genetic resources of Mayurbhanj, Orissa. **Plant Genetic Resources Newsletter** 146: 43-48.
  - iv. Jena Mayabini, Sahu RK and **Marndi BC** (2006). Screening of rice varieties for resistance against brown plant hopper (*Nilaparvata lugens* Stal.) **Oryza** 43(4): 334-335.
  - v. Sarkar RK, Reddy JN, **Marndi BC** and Pattnaik SSC (2004). New rice cultivars tolerant of complete submergence. **IRRI Newsletter**. p2-63.
  - vi. Patra B C, Marndi B C and Samsudeen K (2003). Identification of an orchid in rice ecosystem. **Oryza** 40(1&2): 44-45.

- vii. Sarkar RK, Das KK, Reddy JN, Sahu RK and **Marndi BC** (2002). New genetic resources tolerant to submergence and studies on elongation ability in relation to submergence tolerance in rice. *In* International Symposium on Plant biodiversity, Conservation and Evaluation. p98-99.
- viii. Patra BC, Sahu RK, Patnaik SSC, **Marndi BC**, Nayak PK and Dhua SR (2002). Wild rices and related species in Orissa and West Bengal, *In* National Seminar on Plant Resources Utilisation for Backward area Development. p87-89.
- ix. Patra BC, Pande K and **Marndi BC** (2002). Boro rice germplasm in eastern India. *In* International Symposium on Plant biodiversity, Conservation and Evaluation. p113-115.
- x. Singh BN, Dhua SR, Sahu RK, Patnaik SSC, Patra BC and **Marndi BC** (2001). Status of rice germplasm—its collection and conservation in India. **Indian Journal of Plant Genetic Resources** 14(2): 105-106.