

SCIENTIST PROFILE



1. Name & Designation : Rabindra Kumar Sahu,
Scientist (Selection Grade)
2. Date of Birth : 27th June, 1958
3. Date of joining ICAR : 13th March, 1986
4. Date of joining the present post : 27th July, 1998
5. Qualification (highest degree) : M.Sc
6. Post Doctoral Research Experience/Training: Nil
7. Area of Specialization/research interest: Genetics & Cytogenetics
8. Significant Contribution including products and patents (Five bullets):
 - Collected more than 600 rice germplasm and wild rice from the states of Orissa and West Bengal.
 - Identified 5 pre-breeding lines viz; CR 2711-76 (Tapaswini x Dhobanumberi), CR 2711-114 (Tapaswini x Dhobanumberi), CR 2711-139 (Tapaswini x Dhobanumberi), CR 2711-149 (Tapaswini x Dhobanumberi) and CR 2712-12 (SambaMahsuri x Salkathi) as resistant/promising in AICRIP PHS trial for consecutive years against BPH, WBPH, GLH and mixed populations of planthoppers under both field and greenhouse tests. These can be further utilized as donors.
 - Identified 4 pre-breeding lines viz; CR 3005-230-5 (Samba mahsuri x Salkathi), CR 2711-76 (Tapaswini x Dhobanumberi), CR 3005-77-2 (Samba mahsuri x Salkathi) and CR 3006-8-2 (Pusa 44 x Salkathi) as promising in AICRIP Multiple resistance screening trial (MRST) which can be further utilized as donors.
 - Maintenance breeding of pure line varieties and parental lines was carried out and breeder seed were supplied for the CRRI varieties as per the DAC and other indents regularly.
9. Awards/Honours: Nil
10. Publications (10 best):
 - i. Behera L, Patra BC, **Sahu RK**, Nanda A, Sahu SC, Patnaik A, Rao GJN and Singh ON (2012), Assessment of genetic diversity in medicinal rices using microsatellite markers. **Australian Journal of Crop Science** 6(9): 1369-1376.
 - ii. Rao GJN, Swain D, Mishra R, Rao RN, Prasad D, Saikrishna R and **Sahu RK** (2012). Molecular marker based estimation of outcrossing rates in tropical rice and its ecological consequences. **Tropical Plant Biology** 5: 277-285.
 - iii. Jena M, **Sahu RK** and Marndi BC (2006), Screening of rice varieties for resistance against Brown plant hopper, (*Nilaparvata lugens* Stal). **Oryza** 43(4): 334-335.
 - iv. Sarkar RK, De RN and **Sahu RK** (2001). "Identification of submergence tolerant rice germplasm under recycling of flooding." **Indian Agriculture** 45(1&2): 55-60.
 - v. Sarkar RK, **Sahu RK**, Suriya Rao AV and De RN (1999). "Correlation and path analysis of certain morpho-physiological characters with submergence tolerance in rainfed lowland rice." **Indian Journal of Plant Physiology** 4: 346-348.
 - vi. Sarkar RK, **Sahu RK**, and De RN (1998). "Tolerance for submergence in rainfed lowland rice under repetition of flooding." **International Rice Research Note** 23(2): 31-32.