# SCIENTIST PROFILE

1. Name & Designation : Dr. Lotan Kumar Bose
2. Date of Birth : 8th July, 1964
3. Date of joining ICAR : 5th August, 2008
4. Date of joining the present post : 5th August, 2008
5. Qualification ( highest degree) : Ph.D
6. Post Doctoral Research Experience/Training:
7. Area of Specialization/research interest: Cytogenetics and Plant Breeding
8. Significant Contribution including products and patents (Five bullets):
    - Breeding lines tolerance to abiotic stress (drought) using land races and wild rice species has been generated
    - Monosomic alien addition lines in rice has been developed
    - Breeding lines tolerance to biotic stress (YSB & BPH) using wild rice species are in progress
    - Chromosome configurations studies in wide cross derivatives are in progress.
9. Awards/Honours:
    - Best Poster Award in ARRW Golden Jubilee International Symposium on "Sustainable rice production & livelihood security: challenges & opportunities" at CRRI, Cuttack, March 02-05, 2013. The poster entitled "Introgression of target genes from wild rice (Poster No-133).
    - Bose, LK, Swain D, Singh ON, Jena M and Behera KS (2013). Introgression of target genes from wild rice; ARRW Golden jubilee International Symposium, March 02-05, In association with ICAR, New Delhi, IRRI, Philippines, NAAS, New Delhi and CRRI, Cuttack, Association of Rice Research Workers Cuttack-753006 (Odisha, India) Extended Summaries. p58-59.
10. Publications (10 best):
    i. **Bose LK** and Subudhi HN (2012). Genotype x environment interaction and stability analysis for grain yield and its components studies in Dry Season Rice. **International Journal of Agricultural and Statistical Sciences** 8(2): 321-324.
    ii. **Bose LK**, Nagaraju M and Singh ON (2012). Genotype x environment interaction and stability Analysis of lowland rice genotypes. **Journal of Agricultural Sciences** 57(1): 1-8.
    iii. Jena M, **Bose LK** and Sahu SC (2012**)**. Two breeding lines of rice resistant to the rice root-knot nematode. **Nematologia *Mediterranea*** 40: 207-208.
    iv. Subudhi HN, **Bose LK**, Singh ON and Rao GJN (2012). Genotype X environment interaction for grain yield and its component traits in irrigated rice. **The Madras Agricultural Journal** 99(4-6): 178-180.
    v. **Bose LK,** Singh ON, Subudhi HN and Rao GJN (2011). Genetic diversity in direct seeded aerobic rice. **International Journal of Agricultural Sciences** 7(2): 321-324.
    vi. Verulkara SB, Mandal NP, Dwivedi JL, Singh BN, Sinha PK, Mahato RN, Dongre P, Singh ON, **Bose LK**, Swain P, Robin S, Chandrababu R, Senthil S, Jain A, Shashidhar HE, Hittalmani S C. Vera Cruzi, Paris T, Ramani A, Haefelei S, Serraji. Atlin RG, Kumari A (2010**)**. Breeding resilient and productive genotypes adapted to drought-prone rainfed ecosystem of India. **Field Crops Research** 117:197–208.

vii. Nayak D, **Bose LK**, Singh UD, Singh S and Nayak P (2008**)**. Measurement of genetic diversity of virulence in populations of Xanthomonas oryzae pv. *Oryzae* in India. **Communications in Biometry and Crop Science** 3(1): 16-28.

viii. Nayak D, **Bose LK**, Reddy PR and Nayak P (2008**).** Host-pathogen interaction in rice-bacterial blight pathosystem. **Journal of Plant Protection Research** 46(3): 371-384.

ix. Nayak D, **Bose LK**, Singh S and Nayak P (2008**).** Additive Main effects and Multiplicative Interaction analysis of host- pathogen relationship in rice-bacterial blight pathosystem. **Plant Pathology Journal** 24(3): 337-351.

x. **Bose LK**, Das S, Pradhan SK, Subudhi HN, Singh S and Singh ON (2007). Genetic variability of quality characters and grain yield in lowland rice genotypes of Eastern India. **Korean Journal of Breeding Science** 39(1): 39-44.