

SCIENTIST PROFILE



1. Name & Designation : Dr. Krishnendu Chattopadhyay
Senior Scientist
2. Date of Birth : 13th August, 1972
3. Date of joining ICAR : 26th April, 1999
4. Date of joining the present post : 11th September, 2008
5. Qualification (highest degree) : Ph.D (Genetics)
6. Post Doctoral Research Experience/Training: Nil
7. Area of Specialization/research interest:
 - Genetics and cytology in maize
 - Pulse genetics and breeding
 - Breeding for salinity tolerance in rice
 - Breeding for high protein rice
8. Significant Contribution including products and patents (Five bullets):
 - Technology developed: Development and release of Field pea varieties, TRCP 8 (Gomati) in 2010 by CVRC and TRCP 9 in 2012 by SVRC, Tripura
 - Technology developed: Development and release of Toria (mustard) variety, TRC-T-1-1-5-1 in 2012 by SVRC, Tripura
 - Technology developed: Development and release of rice varieties, CR Dhan 405 and CR Dhan 406 in 2012 by SVRC, Odisha and release of rice variety CR-749-20-2 (Naveen) in 2012 by SVRC, Tripura
 - Technology-Ready: Thirteen inter-varietal maize population, 38 mungbean and 10 yellow sarson lines were developed.
 - Methodology standardized and validated: Standardization of maize endosperm cytology, validation of RGA primers in screening of mungbean germplasms for tolerance to MYMV and application of DNA fingerprints in identification of new Pineapple clone.
9. Awards/Honours: Nil
10. Publications (10 best):
 - i. **Chattopadhyay K**, Das SP and Singh NP (2012). Adaptability of Indian mustard (*Brassica Juncea*) under irrigated uplands of Tripura. **Indian Journal of Agricultural Sciences** 82: 645-847.
 - ii. **Chattopadhyay K**, Das A and Das SP (2011). Grain protein content and genetic diversity of rice in north eastern India. **Oryza** 48(1): 73-75.
 - iii. **Chattopadhyay K**, Sarkar HK and Bhattacharyya S (2011). Estimation of genetic distances based on agro-morphological and molecular parameters in mungbean - a case study. **Journal of Food Legumes** 24(4): 277-281.
 - iv. Sankaran M, Jai Prakash, Singh NP, **Chattopadhyay K**, Das SP and Ngachan SV (2011). Genetic analysis in Indian bean germplasm under Tripura agro-climatic conditions. **Indian Journal of Horticulture** 68(1): 128-130.
 - v. Jai Prakash, Bhattacharyya S, **Chattopadhyay K**, Roy S, Das S P and Singh NP (2009). PQM-1: A newly developed superior clone of pineapple for northeastern India as evident through phenotype, fruit quality and DNA polymorphism. **Scientia Horticulturae** 120: 288-291.
 - vi. **Chattopadhyay K**, Bhattacharya S, Mandal N and Sarkar HK (2008). PCR-based characterization of mung bean (*Vigna radiate*) genotypes from Indian subcontinent in

- intra- and inter-specific level. **Journal of Plant Biochemistry and Biotechnology** 17(2): 141-148.
- vii. **Chattopadhyay K** and Dhiman KR (2006). Heterosis for ear parameters, crop duration and prolificacy in varietal crosses of maize (*Zea mays* L.). **Indian Journal of Genetics and Plant Breeding** 66 (1): 45-46.
- viii. **Chattopadhyay K** and Sarkar KR (2005). A cytological study on early development of endosperm in maize. **Indian Journal of Genetics and Plant Breeding** 65(1): 67-69.
- ix. **Chattopadhyay K**, Ali Md N, Sarkar H K, Mandal N and Bhattacharyya S (2005). Diversity analysis by RAPD and ISSR markers among the selected mungbean germplasm. **Indian Journal of Genetics and Plant Breeding** 65(3): 173-175.
- x. **Chattopadhyay K** and Dhiman KR (2005). Characterization, variability, diversity and path coefficient analysis of Pigeon pea germplasm from North-East India under rainfed upland condition in Tripura. **Legume Research** 28(2): 140-142.