

## Dr. Nihar Ranjan Chakraborty

Assistant Professor, Genetics and Plant Breeding



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Qualification : Ph.D. in Genetics & Plant Breeding

Specialization : Mutation Breeding, Stress Breeding, Breeding of rice,

Research Areas : Mutation Breeding, Rice, Oilseeds and Vegetable improvement

### REPRESENTATIVE PUBLICATIONS:

1. Kole, P.C., Chakraborty N.R. and Bhatt J.S. (2007). Studies on accumulated micromutations in M2 and M3 generations of gamma ray irradiated prebred mutants of short grain aromatic non-basmati rice. *J.Genet & Breed.* **61** :53-62.
2. Kole P.C. and Chakraborty N.R. (2007). Assessment of gamma ray induced advance generation mutants of short grain aromatic non-basmati rice. *J.Nuclear Agric. Biol.* **36**(3&4): 143-150.
3. Chakraborty N.R. and Kole P.C. (2008). Biological effects of gamma rays on aromatic rice. *Indian J.Crop Sci.* **3** (1): 55-58.

4. Kole P.C., Chakraborty N.R. and Bhatt J.S. (2008). Analysis of variability, correlation and path coefficients in induced mutants of aromatics non-basmati rice. *Tropic. Agric. Res.Ext.***11**: 61-64.
5. Chakraborty N.R. and Kole P.C. (2009). Gamma ray induced morphological mutations in non-basmati aromatic rice. *Oryza* **46**: 181-187.
6. Kole, P.C., Chakraborty N.R. and Mallick R.B. (2012). Evaluation of gamma ray induced mutants of aromatic rice (*Oryza sativa* L.). *Tropical Agriculture (Trinidad)*. **89(4)**:205-210
7. Kole P.C. and Chakraborty N.R. (2012). Assesment of genetic divergence in induced mutants of short grain aromatic non-basmati rice (*Oryza sativa* L.). *Tropical Agriculture (Trinidad)*. **89(4)**:211-215
8. Chakraborty N.R. and Paul A. (2012). Role of induced mutations in enhancing nutrition quality and production of food. *International Journal of Bio-Resource and Stress management* **4(1)**: 014-019
9. Chakraborty N.R. (2013). Towards understanding rice domestication and its implication. *Geneconserve* **12(47)**: 01-22
10. Chakraborty N.R. and Kole P.C. (2014). Gamma ray induced early generations polygenic variability in medium grain aromatic non-basmati rice. *International Journal of Plant Breeding and Crop Science*. 1(1): 028-035

**Number of Ph.D students guided: 3**