Division of Crop Research

Personal Details

Dr. Santosh Kumar
Scientist

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Research Interest

Varietal develoment, Abiotic stress (Drought and Submergence)

Research Highlights

Evaluation and development of rice varieties for abiotic (drought and submergence) stress tolerance .pment of varieties for drought and submergence condition.

Memberships / Fellowships

1. Life member - Indian Society of Plant Genetic Resources, NBPGR, New Delhi from 2006 onwards.
2. Life member – Indian Society of Plant Breeding (ISPB), TNAU, from 2010 onwards.
3. Life membership of Society for Advancement of Rice Research (SARR), DRR, Hyderabad since 2010 onwards.
4. Life membership of Association of Rice Research Workers(ARRW), CRRI, Cuttack
5. Life membership of Indian society of Genetic and Plant Breeding, New Delhi since 2012

Technology Developed

1. Identification rice genotypes for drought prone areas.
2. Evaluation Swarna Sub 1 rice variety for flood prone area.
3. Identification of rice genotypes for aerobic condition

Publication Details

1. Kumar S., Radhamani J., Singh A.K. and Varaprasad K. S. (2007) Germination and seed storage behavior in Pongamia pinnata L. Current Science 93(7): 910-911.
2. Kumar S., Bisht I. S and Bhatt K.V. and Mehta P.S (2009) Diversity among different populations of a locally common rice landrace under static (ex situ) and dynamic (on-farm) management from north-western Indian Himalayas. Pusa agrScience. 32, 1-10.
3. Kumar S., Bisht I. S and Bhatt K.V (2010) Population structure of rice (Oryza sativa) landraces under farmer management. Annals of Applied Biology, 156, 137-146.
4.Kumar S., Pandey. A., Bisht I.S., Bhatt K.V and P.S. Mehta (2010) Diversity among different population of a locally common rice (Oryza sativa) landraces from north-western Indian Himalayas. Plant Genetic Resources: Characterization and Utilization 8 (2); 151-158.
5.Kumar S., Bisht I.S. and K. V. Bhatt (2010). Assessment of genetic diversity among rice (Oryza sativa) landraces populations under traditional production using microsatellite (SSR) marker. Electronic Jouirnal of Plant Breeding: 474-483.
6. Kumar S., Radhamani J. and Kalayani Srinivasan (2011). Physiological and Biochemical changes in the seed of Karanj (Pongamia pinnata) under differtent storage condition. Indian Journal of Agricultural Sciences 81(5): 423-428.
7. Singh A.K., Bhatt B. P., Kumar S. and P. K. Sundaram (2012). Identification of Faba Bean (Vicia faba L.) suitable for rainfed and Irrigated situation. Hort-Flora Research Spectrum 1(3): 278-280.
8. Singh A.K., Bhatt B.P., Sundaram P. K., Kumar S., Bharti R.C., Chandra N. and M Rai (2012). Study of Site Specific Nutrient Management of Cowpea Seed Production and Their Effect on Soil Nutrient Status. Journal of Agricultural Science 4(10): 191-198.

9. Kumar S., Singh S. S., Singh A. K., Elanchezhian R., Sangle U.R. and Sundaram P. K. (2012). Evaluation of rice genotypes for resistance to blast disease under rainfed lowland ecosystem. Journal of plant disease sciences 7(2): 175-178.
10. Singh A. K., Gade R.M. Bharti R .C. Kumar S., and Kumar P. (2012). Influence of sulphur and zinc on incidence of disease and performance of rice. Journal of plant disease sciences 7(2): 239-242.
11. Singh A.K., Bhatt B.P., Upadhaya A., Kumar S., Sundaram P. K., Singh B. K., Chandra N. and Bharti R.C. (2012). Improvement of Faba Bean (Vicia Faba L.) yield and quality through biotechnological approaches: A review. African journal of biotechnology 11 (87): 15264-15271.
12. Singh A.K., Bhatt B.P., Upadhaya A., Kumar S., Singh B and Sundaram P. K. (2012). Status of biotechnological approach to improve faba bean (Vicia Faba L.) seed yield and quality. Journal of progressive science 3 (2): 145-156.
13. Singh S. S., Mukherjee J., Kumar S and Idris M. (2013). Effect of elevated CO2 on growth and yield of rice crop in open top chamber in Sub humid climate of eastern India. Journal of Agrometeorology 15 (1): 1-10.
14. Kumar S., Elanchezhian R., Singh S. S., Singh A. K., Mall A. K., Sangle U.R. and Sundaram P. K. (2013). Field screening of rice genotypes for resistance against bacterial leaf blight and brown spot under aerobic condition. Journal of plant disease sciences 8(2): 148-152.
15. Kumar S., Dwivedi S K., Elanchezhian R., Singh S. S., Singh O N, Arora A and B. P. Bhatt (2013). Influence of aerobic condition on physiological traits and yield attributes of rice (Oryza sativa L.) genotypes under rainfed lowland ecosystem. Indian journal of plant physiology 18(3): 263-269.