

All India Co-ordinated Research Project on (Sunflower)



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Technologies/ Patents developed/Varieties released, Technologies included under Package of Practices of University

1. KBSH-78 Sunflower hybrid released for commercial cultivation in Karnataka

Project operated as PI :

1. Evaluation of Breeding Material for grain mold in Sorghum
2. Evaluation of Breeding Material for grain mold in Sorghum

Project operated as Co-PI

1. Identification of Research Gaps in Intercropping Systems under Rainfed condition in India
2. Foliar application of Zinc and Sulphur to Improve the Quality and yield of black pepper in coffee and areca plantations
3. Establishment of model nursery for medicinal plants
4. Revalidation of Package of practices for Sunflower hybrid of UAS Bengaluru

Trainings Undertaken (National & International)

1. Rainfed Agriculture with production System/ Farming System perspective
2. Molecular Marker Techniques and Plant Transformation for Crop Improvement
3. Integration of Molecular and classical techniques of Plant Breeding for enhancing productivity
4. Seed Business Management
5. Awareness Training Programme about provisions of PPV &FR Act 2001
6. Big data Analytics and Digital in Agriculture
7. IPR and Biosafety issues related to Plant Genetic Resources
8. Exploring Genomic Resources for the Improvement of Horticultural Crops
9. Phenotyping for drought adaptable physiological traits in different crops
10. The Issues & Policies related to GMOs/GM Crops in India

Publication (Research paper, review paper, book and book chapter)

1. Venkatesh, Nianjana Murthy, Manjappa and S.D. Nehru., 2014. "Character association and path co-efficient analysis for various traits in grain amaranth" (*Amaranthus* Spp.). *Asian Journal of Bio Science*, Vol.(9) : 97-100
2. H.M. Vijaya , A.P. Mallikarjuna Gowda and S.D. Nehru., 2014 "Genetic variability, correlation coefficient and path analysis in chilli(*Capsicum annuum* I.) genotypes". *Environ. Life Sci.*, 7(3) 175-178
3. H.M. Vijaya , A.P. Mallikarjuna Gowda and S.D. Nehru, H. B. Lingaiah and K.Umesha., 2014 Variability, Heritability and Genetic Advance for Growth, Yield and Quality in Chilli (*Capsicum annuum* L.) *Annals to Agri- Bio Research*,19(2): 298-300
4. H.M. Vijaya , A.P. Mallikarjuna Gowda and S.D. Nehru., 2014.Genetic diversity studies in chilli (*Capsicum annuum* L.)*Environment and Ecology* 32 (4A):1559-1562
5. Venkatesh, Nianjana Murthy, S.D. Nehru and Manjappa, 2014.Genetic variability, heritability and genetic advance in grain amaranth" (*Amaranthus* Spp.). *Asian Journal of Bio Science*, Vol.(9) : 67-70.
6. H.M. Vijaya , A.P. Mallikarjuna Gowda and S.D. Nehru, 2014,Performance of chilli Genotypes for growth and yield parameters under Eastren Dry Zone of Karnataka. *Annals of Biology* 30(2): 372-374
7. Vijaya H.M., Mallikarjuna Gowda, A.P., Umesha, K, Lingaiah H. B. and Nehru, S.D. 2014,Evaluation and Correlation studies in chilli genotypes for quality parameters. *J.Env.Bio. Sci.*,28 (2):129-131
8. Madhusudan, N., Nehru, S.D., Ravikumar,R.L., Sanjeev Gumtad,2016,Genetic Divergence in Chickpea (*Cicer arietinum* L.). *Progressive Research*.(11) (Special IV) 2588-2590.
9. Noor-E-Mujjasim, S.D.Nehru and Jayarame Gowda,2016,Study of combining ability for yield and its attributing traits in chickpea(*Cicer arietinum* L.). *Progressive Research*.(11) (Special V) 2975-2977.
10. Madhusudan, N . S.D. Nehru, R.L., Ravikumar, and B.G.Sanjeev,2016,Correlation and Path Analysis of Yield and Yield Components in Chickpea(*Cicer arietinum* L.). *Advances in Life Sciences* 5.(20) (Special IV) 9025-9027.
11. Noor-E-Mujjasim, S.D. Nehru and Jayarame Gowda,2018, Heterosis for Quantitative Traits in Wide Crosses of Chickpea(*Cicer arietinum* L.). *Int.J. of Pure & Applied Bioscience*. 6(6): 1204-1209 (2018).
12. Nenavath Krishna Kumar Rathod, Noor-E-Mujjasim, M.Mallik and S.D. Nehru, 2019, Genomic Selection in Crop improvement- An Overview. *Int.J.Curr.Microbiol.App.Sci*. 8(6): 1529-1534
13. Karuna.K., Shadakshari,y.G., Nagarathna,t.K., Jayshree,m.K., Geetha,k.N., Srinivas Reddy, K.M., Puttaragaswamy,k.T. And Nehru,s.D., 2015. Traditional oilseed crops of Karnataka.32-34pp. In: Souvenir: State level Agro- Biodiversity – Seminar-cum-Exhibition. Dec.26, 2015, Biligirirangana Hills, Chamarajanagara Dist., Karnataka. P 64. Organised by UAS, Bengaluru & PPV&FR Authority, Ministry of Agriculture, Govt. of India, New Delhi.Ed.Niranjana Murthy & Subranmanya, S.
14. Shadakshari, Y.G., Puttarangaswamy, K.T., Nehru,S.D., Karuna, K., SrinivasReddy,K.M., Sujith, G.M. and Nagarathna, T.K., 2016. Chapter in Training manual on " Sunflower Hybrid seed production", distributed in Refresher course on Capacity building and skill development in hybrid seed production technology organized during 8 -12, Aug. 2016, at National Seed project, UAS, Bangalore, pp. 1-9.
15. Karuna, K., Shadakshari, Y.G., Nagarathna, T.K., Jayshree, M.K., Geetha, K.N., Srinivas Reddy K.M., Puttarangaswamy, K.T. and Nehru, S.D., 2015, Traditional Oilseed Crops of Karnataka. Chapter in Training manual on "State Level Agro-biodiversity Seminar-Cum-Exhibition" organised during December 26, Biligirirangana Hills, Chamarajanagara Dist., Karnataka