

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) IPM module to manage pest complex in sunflower
- 2) Management of defoliators in sunflower: One need based spray application of Profenophos 50 EC (@1ml/lit.) in the pre-flowering stage for the management of defoliators in sunflower
- 3) Management of capitulum borer (*Helicoverpa armigera*): Two spray applications of Spinosad 45SC @1 ml/ 10 lit. first at star bud stage and second spray 15 days later for the management of *Helicoverpa armigera* as an alternative to endosulphan 35EC (2 ml/lit.).
- 4) Spinosad based biointensive pest module viz., seed treatment with Imidachloprid 70 WS (5g/kg) + Apron 35 SD (5g/kg) + Hand picking & destruction of early instars of *Spodopteralitura* and *S. obliqua* + two sprays of Spinosad 45 SC (0.0045%) was the most superior BIPM module with significantly highest seed yield (1284.26 kg/ha.) coupled with highest incremental benefit cost ratio (IBCR) of 4.20

Project operated as PI :

1. Evaluation of Chlorpyrifos 50% + Cypermethrin 5% EC against insect pests of Groundnut, Soybean and Redgram
2. Evaluation of Bio-efficacy and Phytotoxicity of Encounter against fruit borer against insect pests of greengram and Chilli.
3. Evaluation of Chlorpyrifos 35% + Fipronil 3.5% EC against insect pests of Chilli, Okra and Soybean

Project operated as Co-PI

- 1) Promotion of Integrated Farming System for sustainable Livelihoods of farming Community
- 2) Mass production and popularisation of Bio-control agents for the management of pests and diseases of crops
- 3) Revalidation of Package of practices of Sunflower of UAS Bengaluru

Trainings Undertaken (National & International)

- 1) Enhancing Water and Nutrient Use Efficiency in Indian Farming through Precision Agriculture
- 2) Pest Surveillance
- 3) National Workshop on Digital Field Book
- 4) Big data Analytics and Digital in Agriculture
- 5) Integrated Pest Management

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

- 1) K. Basavaraj, K.S. Jagadish, Soumya Shettar, K.M. Srinivas Reddy and Y.G. Shadakshari, 2016. Bee foraging on Elite Sunflower (*Helianthus annuus* L.) cultivars and its impact on seed and oil yield. J. Exp. Zool. India **19** (2) : 1191-1194
- 2) Mahadeva Prasad, T.N., Karuna, K., Jayashree, M.K. and **Srinivas Reddy, K.M.**, 2017 Field evaluation of sesame lines against phyllody. Electronic J. Plant Breeding, 8(3): 945-949.
- 3) Karuna, K, Shadakshari, Y.G., Padmashri, H.S., Uma, M.S. and **Srinivas Reddy, K.M.**, 2018, Modelling of Diseases of Sunflower under changing climatic scenarios in southern Karnataka. In: International conference on Role of soil and plant health in achieving sustainable Development goals, 21-25, November, 2018. Bangkok.
- 4) Hemanth Kumar R, **Srinivas Reddy KM**, Shishira D and Eshwarappa G, 2020, Stingless bees in Sunflower pollination. Journal of Entomology and Zoology Studies 2020; 8(1): 299-302.
- 5) Hemanth Kumar R, Srinivas Reddy K.M., Shishira D and Eshwarappa G., 2020, Role of *Apis cerana* Fab. in Sunflower pollination. Journal of Entomology and Zoology Studies 8(5) : 648-654.

Awards and distinction

- 1) Dr. Srinivas Reddy K.M. received **BEST POSTER** award for "**Diversity and abundance of pollinators in Sunflower**" presented in the National Conference on "Conservation of Biodiversity in Deccan plateau" at during 10th October 2014, Organised by Department of Zoology, Tumkur University, Tumkur.
- 2) Dr. Srinivas Reddy K.M. received **Dr. R. Dwarkinath award** for publishing best article "Raitha Vignani aadaga" for year 2013 at UAS (B) Krishimela on November 20, 2014.
- 3) Dr. Srinivas Reddy K.M. received **Prof. B.V. Venkat Rao award** for publishing best Scientific article "Kirudhanyagala mahatva" in Krishi Vignana for year 2013 at UAS (B) Krishimela on November 20, 2014.