

Bio-Data of Manjunatha Gowda D C

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Designation : Scientist (Vegetable Science)
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Higher Degree : M.Sc. Horticulture in Vegetable Science

Birth Date : 01-05-1989

Research Interest : Heterosis breeding, Interspecific Hybridization, Quality Seed Production

Description of Research : ➤ India is second largest onion producer (19.40 m-MT) in the world, however the onion productivity in India is quite low (16.1 MT/ha) may be due to majority of Indian onions are varieties, which yields low due to the exploitation of heterosis hence research has devised to replace the varietal seed by hybrid seed onion with the use of males sterility (CMS/CGMS). India is second leading garlic producer of the world, though India is leader but productivity is still low (5t/ha) due to the Garlic Viral Complex (GVC) therefore research has been undertaken to produce True Garlic Seeds (TGS) and True Seeds of Garlic (TSG) seeds which are free of viruses.

Projects : ➤ Devising efficient breeding techniques and genetic improvement of onion and garlic through conventional breeding and biotechnological approaches.
➤ Integrated water and nutrient management and physiological manipulation for improving productivity of onion and garlic.

Publication :

Papers in Research Journal (national/international):

Manjunathagowda, D.C., Sampath, P.M., Nagesha, G.C., Bommesh, J.C. and Shilpashree, N. 2017, Devising of nutrients in production of tomato (*Solanum lycopersicum* L.). *Intern. J. Agri. Sci.*, **13**(2) : 287—292, DOI: [10.15740/HAS/IJAS/13.2/287-292](https://doi.org/10.15740/HAS/IJAS/13.2/287-292).

Manjunathagowda, D.C., Gopal, J., Archana, R. and Asiya K.R., 2017, Virus-Free Seed Production of Garlic (*Allium sativum* L.): Status and Prospects. *Int. J. Curr. Microbiol. App. Sci.* **6**(6): 2446—2456. doi: <https://doi.org/10.20546/ijcmas.2017.606.290>.

Bommesh, J.C., Kattula Nagaraju, Sunilkumar, M.K., **Manjunathagowda, D.C.** Mallik, M. and Ravi, Y., 2016, Next generation sequencing platforms and its applications in genomics. *International Journal of Agriculture, Environment and Biotechnology*, **9**(6): 947—950.

Manjunathagowda, D.C., Lingaiah, H.B, Nachegowda, V. and Anil Kumar, S. 2016, Effect of specialty fertilizers on quality, yield and economics of tomato (*Solanum Lycopersicum* L.) Production. *Environment and Ecology*. **34**(1): 150—154.

Manjunathagowda, D.C., Lingaiah, H.B., Nachegowda, V. and Anil Kumar, S., 2015, Effect of specialty fertilizers on growth and yield of tomato (*Solanum lycopersicum* L.), *Plant Archives*. **15**(1):335—338.

Books:

Prakash, M., Jagadheesha, R.C. and **Manjunathagowda, D.C.**, 2014, Innovative Breeding of Ridge Gourd: Heterosis, combining ability and hybrid seed production techniques in ridge gourd, LAP LAMBERT Academic publishing, pp 1—75.

Technical/Popular articles/ news letter:

Sanjeev, J., Nithinkumar, C.J., **Manjunathagowda, D.C.** and Madhushri, S. K., 2017, Cartagena Protocol on Biosafety Reducing the Environmental Risks of Modern Biotechnology *KERALKARSHAKAN e-journal* **4**(12): 4—5.

Hanamunt, M.H., Gurusurthy, N., Ashwini, B., Madhuri, E.P., Jayashree, V., Shruti, P.G., **Manjunathagowda, D.C.**, 2017, Garden for nutrition, *KERALKARSHAKAN e-journal* **4**(9): 17—18.

Bommesh, J.C., **Manjunathagowda, D.C.**, Kattula Nagaraju, Nagesha, G. C., 2016, Cultivation of Chow-Chow in Tropical Area, *KERALKARSHAKAN e-journal* **4**(1):36—37.

Shrut Gondi, Vasanth Ganiger, Namitha Raut, **Manjunathagowda, D.C.**, Oriental Pickling Melon-An off-season nutritious vegetable, *KERALKARSHAKAN e-journal* **4**(8) 1:26—27.

Manjunathagowda, D.C., Ram, Y.B, and Dhanshree,V.T., 2015, *Prosperity of Onions in India. Popular Kheti* **3**(3): 39—44.

Manjunathagowda, D.C. and Gopal, J., 2015, Rapid multiplication of Chineses-Chives. *DOGR News.*,**19**:2.

Presentation in Conferences/Symposia/Seminars/Other flora /trainings:

Manjunathagowda, D.C., Mahajan, V. and Gupta, A.J., **Male sterility in onion: A functional tool for heterosis breeding.** “International Symposium on Horticulture : Priorities & Emerging Trends” at IISc, Bengaluru, 2017

Manjunathagowda, D.C., Lingaiah, H.B., Basavaraj, N. and Anjannappa, M., 2017, **Identification and isolation of male sterility system for the development of hybrid onions.** International conference on recent trends in Agriculture, Biotechnology and Food processing at CoA, Hassan, UAS, Bangalore, 5th—7th July, 2017.

Manjunathagowda, D.C., Lingaiah, H.B., Rao, S.E. and Anjanappa, M., **Harnessing blooms in garlic (*Allium sativum* L.): Frontier technology,** Interactive PG poster seminar on frontier Post Graduate Research Areas of University of Horticultural Sciences Bagalkot and its Impact on Horticulture Development at UHS Bagalkot, 8th March 2017

Manjunathagowda, D.C. and Gopal, J., **Functional validation of *orf725* marker for *ms*-locus in Indian short-day onions,** 2nd National Symposium On Edible Alliums (NSEA): Challenges and Future Strategies for Sustainable Production held at Jalna on 7th—9th November, 2016

Manjunathagowda, D.C., Young Scientist's Meet 'AGRI SEARCH-2050'—NAAS complex, Pusa, New Delhi - 110 012 on 18th May 2015.

Manjunathagowda, D.C., RNA-interference as a Tool for Plant Functional Genomics and Crop Improvement"—ICAR-NRCPB , Pusa, New Delhi- 110 012 from 6th to 26th May 2015

Manjunathagowda, D.C., National Workshop on "Current Trends in Agricultural Bioinformatics" (Sponsored by DBT,GOI, New Delhi) "— ICAR-National Academy of Agricultural Research Management, Rajendranagar, Hyderabad 500030, Telangana, India from 15th -17th February 2016

Membership of Professional Societies/ Bodies

1. Life Member

- A. Indian society of alliums
- B. Asian PGPR Society for Sustainable Agriculture

2. Reviewer in Bioinfo Publishers

International journal of Agricultural Sciences, Membership ID: 97F6117997, Dated 20th March 2016

3. Editor/Reviewer in Academia Scholarly Journals

International Journal of Agricultural Research, Sustainability, and Food Sufficiency (IJARSFS)
Dated: 17th March, 2016