

Biodata of the Scientist

Division/Section: Division of Crop Protection

A. Personal information

1. Name(With Title): Dr. B. G. Sangeetha

1.a. Qualification: B.Sc. (Agri), M.Sc. (Agri. Plant Biotechnology) & Ph.D. (Biotechnology)

2. Designation: Scientist (Agricultural Biotechnology)

3. Address(Personal): Sangeeth bhavan, MRA-37, T. C-2/522-4, Madathuvila lane, Medical College P. O, Trivandrum, Pin – 695011

(a)Residence Nil (b)Intercom 0471 2598551 (169) (c)Mobile +91 9495555515, +91 8943509058

5. Email: Sangeetha.G@icar.gov.in, sangeethageethu214@gmail.com

6. Countries visited: China

B. Professional information

1. Area of specialization: Molecular screening of wild *Ipomoea* sp. for sweet potato weevil resistance

2. Area of interest: Identification of plant genotypes and genes responsible for sweet potato weevil resistance, Identification of tuber crop pests, bacterial endosymbionts by molecular biology methods

3. Number of institute projects completed (Add list):2

- a. Molecular characterization of endosymbionts of insect pests with respect to tropical tuber crops
- b. Characterization of defense related genes in sweet potato with respect to sweet potato weevil infestation

4. Number of Institute projects being handled (Add list):1

a. Characterization of insect resistance genes in sweet potato and related *Ipomoea* species against sweet potato weevil infestation

5. Number of externally funded projects completed (Add list):3

- a. Indo Swiss cassava network project (Co-PI)
- b. Augmentation of biopesticides production from cassava leaves using fully automated manufacturing facilities (Co-PI)
- c. On farm trial of cassava biopesticides against borer pests of banana in Kerala (Co-PI)

6. Number of externally funded projects being handled (Add list):2

a. Radiation technology for quality improvement of tuber crops and management of its by-products (Co-PI)

b. Empowerment of farmers through tuber crops based technological interventions under SCSP (Co-PI)

7. Number of students guided for a) Ph.D Nil b) M.Phil Nil c) M.Sc : 9

8. Number of students being guided for a) Ph.D Nil b) M.Phil Nil c) M.Sc : 9

8.a. information about the students under your guidance

Name of the student	Course undergoing (Ph.D/M.Phil/M.Sc)	Title of the project/Thesis	E-mail address
-	-	-	-

9. Information on guide ship

Guide ship for Ph.D/ M.Phil/ M.Sc	University	Subject
-	-	-

10. Number of Research papers(Add list):

1. **Sangeetha Balakrishnan Geetha**, Shyamamma Subbareddy, Priyanka Satishchandra, Ryder Moses, Sathees Chandra (2013) Morphological and molecular screening of French bean (*Phaseolus vulgaris* L.) germplasm using SCAR markers for *Colletotrichum lindemuthianum* (Sacc. and Magn.) Scrib. causing anthracnose resistance. Archives of phytopathology and plant protection 46 (1): 84-97.
2. **B.G. Sangeetha**, C.A. Jayaprakas, J.V. Siji, C. Mohandas (2015) Optimization of media and temperature for antimicrobial activity of *Enterobacter* sp. associated with entomopathogenic nematode *Rhabditid* sp. Entomon 40 (1): 11-22.
3. **Balakrishnan Geetha Sangeetha**, Cheruvandasseri Arumughan Jayaprakas, Jinachandrannair Vijayakumari Siji, Moochattil Rajitha, Basheerkutty Shyni, Chellappan Mohandas. (2016) Molecular characterization and amplified ribosomal DNA restriction analysis of entomopathogenic bacteria associated with *Rhabditis (Oscheius)* spp. 3 Biotech 6: (32), 1-13.

4. **Sangeetha, B.G.**, Jayaprakas, C.A., Jithine, J.R. and Mohandas, C. (2016). Optimization of media for antimicrobial activity of *Enterobacter* sp. associated with entomopathogenic nematode *Rhabditid* sp. Journal of Root Crops 40(2): 121-127.
5. **B. G. Sangeetha**, E. V. Sreejitha, C. A. Jayaprakas and E. R. Harish (2019) Endosymbiotic bacteria associated with the *Aphis gossypii* Glover (Hemiptera:Aphidae) infesting taro. Journal of root crops 45(1): 41-46.
6. E. R. Harish, A. H. Farhana, **B. G. Sangeetha** (2019) Screening potential microbes against whitefly (*Bemisia tabaci* (Gennadius)), the most important pest of cassava (*Manihot esculenta* Crantz) Journal of entomology and zoology studies 7(6):601-606.
7. Drishya Pavithran, Jayaprakas C.A. and **Sangeetha B.G.** (2022) Endosymbiotic Bacteria Associated with the Spiralling Whitefly, *Aleurodicus dispersus* Russell (Hemiptera: Aleyrodidae) International Journal of zoological investigations Vol: 1(8), 281-290.

11. Number of Books/Book chapters(Add list):

a. Harish E. R., Jayaprakas C. A., **Sangeetha B. G** (2021) Important pests and their management in tropical tuber crops, in Sanket J. More, Namrata Ankush Giri, Suresh Kumar J,

Visalakshi Chandra C, Sirisha tadigiri (Ed.) Recent advances in root and tuber crops (pp-227-242). Brillion publishing. ISBN: 978-93-90757-44-2, e-ISBN: 978-93-90757-47-3

12. Number of Technical Bulletins(Add list): Nil

13. Consultancies offered (Add list and give a brief description): Nil

14. Technologies developed (Add list and give a brief description): 1

1. *Ipomoea mauritiana* was identified tolerant to sweet potato weevil for the first time by screening of different wild *Ipomoea* sp.

15. Patents/Copyrights obtained (Add list and give a brief description): Nil

16. Any other information: Nil

