

SCIENTIST PROFILE

1. Name & Designation : Dr. Someshwar Bhagat
Senior Scientist
(Plant Pathology)
2. Date of Birth : 15th May, 1973
3. Date of joining ICAR : 11th March, 2003
4. Date of joining the present post : 31st December, 2010
Date of joining CRURRS : 24th June, 2016
5. Qualification (highest degree) : Ph.D in Plant Pathology



6. Post Doctoral Research Experiences/Trainings (more than one month):

- Attended international training on “Pest ecological control for developing countries” at South China Agricultural University, Guangzhou, PR China from 24th May – 04th July, 2010

7. Area of Specialization/Research Interest:

- Biological control for plant disease management by *Trichoderma* spp. and PGPRs
- Integrated pest management

8. Significant Contribution including products and patents (Five bullets):

- Developed IPM modules for management of diseases complex in tomato (A & N Islands), Black pepper (A & N Islands), mungbean (Jharkhand & MP), urdbean (Jharkhand & MP), lentil (Jharkhand & MP), fieldpea (Jharkhand, MP & NE regions), cabbage & cauliflower, chickpea & pigeonpea
- Identified crop/region specific potential isolates of *Trichoderma* from major pulse growing areas of India and developed mass production technology for *Trichoderma*
- Reported four new species of *Trichoderma* spp from Andaman Islands and identified potential isolates of *Trichoderma* from NE regions for management of key soil borne pathogens of fieldpea, cabbage and cauliflower and mustard
- Developed “e-National Pest Alert & Reporting System for pigeonpea, chickpea, lentil, mung and urdbean” and implemented in major pulse growing states
- Developed IPM packages for rice, maize, soybean, cotton and groundnut

9. Awards/Honours:

- Awarded ICAR- Jawaharlal Nehru Outstanding Post Graduate Research in Plant Protection (2010)
- Awarded MK Patel Memorial Young Scientist Award (2013) by Indian Phytopathological Society, Div. of Plant Pathology, IARI, Pusa, New Delhi
- Best poster presentation award in 5th International Conference on Biopesticides: Stakeholder’s Perspective, held at TERI, New Delhi from 26-30 April, 2009
- Best poster presentation award in International Remote Sensing conference of ISPRS in Dec 2014, held at Hyderabad
- Served as Zonal Councillor and Member of Executive Council (2013), Indian Phytopathological Society, Pusa, New Delhi
- Served as Co-coordinator, National Workshop for upgradation and finalization of IPM Packages of six crops
- Served as Co-Convener in Theme-VII in International Conference, organized by IPS, New Delhi during 23-27 Feb, 2016

- Served as active member, National Brainstorming Meet on IPM in major field and horticultural crops during 16-17 March, 2016
- Served as Member, Central Investigation Team for death of 24 Goats in Kapurthala District, Punjab by consuming *Trichoderma*
- Served as Principal Member, FAD1, Bureau of Indian Standards, Govt. of India
- Served as ICAR- Nodal Officer, Weekly Pest Status Report
- Actual Member of International Subcommittee on Taxonomy and Classification of *Trichoderma* and *Hypocrea*, USA
- Reviewer, Microbial Ecology, Springerlink Publication, International Journal of Vegetable Science, African Journal of Microbiology, African Journal of Agriculture Sciences, Journal of Environmental Biology, Indian Journal of Agricultural Sciences, Indian Phytopathology, Annals of Plant Protection Sciences
- Life Member, Indian Phytopathological Society, IARI, Pusa, New Delhi
- Life Member, Indian Mycological Society, Kolkata
- Life Member, Society for Biocontrol Advancement, Bangalore
- Life Member, Horticulture Society of India, New Delhi
- Acted Co-organizing secretary of national symposium of Society for Plant Protection Sciences, IARI, Pusa, held at CARI, Port Blair.

10. Publications (Ten Best)

- I. **Bhagat S**, Tripathi AK, Ahmad I, Birah A and Sharma OP. 2015. Integrated disease management for tomato in island ecosystem of Andaman. *Indian Journal of Horticulture*, **72**:67-72
- II. **Bhagat S**, Bambawale OM, Tripathi AK, Ahmad I and Srivastava RC 2013. Evaluation of native *Trichoderma* spp. against fusarial wilt of tomato in Island Ecosystem of Andaman and Nicobar Islands. *Indian Journal of Horticulture*, **70**:397-403.
- III. Birah A, Kumar K, Singh PK, Srivastava RC and **Bhagat S**. 2012. Efficacy of pest management practices against pest complex of okra (*Abelmoschus esculentus*) in Andaman. *Indian Journal of Agricultural Sciences*, **82**: 470-72.
- IV. Singh N, Jeyakumar P, Bambawale OM, Vennila S, Kanojia AK, **Bhagat S** and Sathyakumar S. 2012. e-pest surveillance system for soybean (*Glycine max*) and cotton (*Gossypium* spp) crops. *Indian Journal of Agricultural Sciences*, **82**: 800-807
- V. Kumar K, **Bhagat S**, Amaresan N, Madhuri K and Srivastava RC. 2012. In vitro antagonistic properties of some *Trichoderma* spp against root rot and foliar pathogens. *Indian Journal of Microbiology*, **52**(2):137–144.
- VI. Kumar K, Amaresan N, **Bhagat S**, Madhuri K and Srivastava RC. 2011. Isolation and characterization of rhizobacteria associated with coastal agricultural ecosystem. *World Journal of Microbiology & Biotechnology*, **27**:1625 –1632
- VII. **Bhagat S** and Pan S. 2010. Biological management of root and collar rot of French bean. *Indian Journal of Agricultural Sciences*, **42**: 42-50
- VIII. **Bhagat S** and Pan S. 2007. Mass multiplication of *T. harzianum* on agricultural byproducts and their evaluation in management of seedling blight (*R. solani*) of mungbean and collar rot (*S. rolfsii*) of groundnut. *Indian Journal of Agricultural Sciences*, **77**: 583-588.
- IX. Ahmad I and **Bhagat S**. 2013. DNA Fingerprinting of Bio-control Isolates of *Trichoderma* spp. Isolated From Different Crop Rhizosphere of Andaman Island. *Vegetos-An International Journal of Plant Research*, **26** (2), 460-466.
- X. BV Bhede, OP Sharma, AG Badgujar, **S Bhagat**, BB Bhosle, M Khullar. 2015. Impact of areawide integrated pest management strategies on pests of pigeonpea and yield in Marathwada region of Maharashtra, India. *Legume Research-An International Journal*, **38** (1), 101-108.