

## PROFILE OF SCIENTIST:

- a) **Name of the Scientist** : **Dr Satya Nand Sushil**
- b) **Designation** : Principal Scientist  
(On deputation as Plant Protection Adviser,  
Govt of India, New Delhi)
- c) **Joining date in ICAR** : 21.07.1993
- d) **Discipline and specialization:** Agricultural Entomology, Biological Control, IPM

e) **Training / advance exposure in the area of work:**

- Subject Matter Training of ARS in the field of Biological Control at IIHR, Bangalore from Dec., 1993 to Aug., 1994.
- Summer School on “Recent advances in Insect Pest Management in Major Crops” from 07.07.97 to 27.07.97 at G.B.Pant University of Ag. & Tech., Pantnagar,
- Training on “Biological control of crop pests in different cropping systems” from 03.04.2000 to 02.06.2000 by Team of Excellence in Human Resource Development in Biological Control under National Agricultural Technology Project at Project Directorate of Biological Control, Bangalore.
- Refresher training on “Biological Control insect pests in different cropping systems” from 15.12.03 to 20.12.03 at Project Directorate of Biological Control, Bangalore

e) **Projects completed as P.I./ Co-P.I.:** Institute funded: 15; External funded: 08

f) **Research contributions :**

- Development of eco-friendly tools for the management of insect pests of sugarcane.
- Enhancing potential of bio-agents against major insect pests of sugarcane.
- Development of low cost technologies for the management of white grubs.
- Development of Bt based control strategies for the management of lepidopteran insect pests.
- Planned honeybee pollination.
- Screening of promising genotypes of crop plants for their resistance / tolerance against insect pests.
- Biological control of major predators of lac insects.
- Productivity rating and identification of potential lac insect for commercialization.

g) **Publications:** Research papers, Books, Booklets, Folders etc.: **202**

Research papers: 7

Books: 05

Seminar/ Symposium: 2

Bulletins/ Extension leaflet/ folders: 102

- h) Patents filed: 02**
- i) An insect trapping device (VL White Grub Beetle Trap-1). **Reference No:** 2404/DEL/2007.
  - ii) A process for the preparation of *Bacillus thuringiensis* (*Bt*) biocide and a composition thereof. **Reference No:** 1627/DEL/2008.
- i) Technology commercialized: 03**
- ii) “VL White Grub Beetle Trap-1” to M/S Kohli Agricultural Equipments, Rudrapur (US Nagar).
  - iii) “VL White Grub Beetle Trap-1” and mass production technology of *Bacillus cereus* strain WGPSB-2 for the management of white grubs to M/S Shibah Welfare, Dimapur.
  - iv) “IISR-Combo Insect Trap” to M/S Fine Traps, Yawatmal (Maharashtra)
- j) Microbial cultures deposited at MTCC, Chandigarh: 4 *Bt* strains, 1 strain each of *B. cereus* and *Serratia marcescens***
- k) Germplasm registered at ICAR: VSR-8 of paddy**
- l) New insects discovered: 31 species and 2 genera of Eulophidae and Encyrtidae. One commercially important lac insect.**
- m) Prominent Awards:**
- **WIPO Gold Medal-2008** by World Intellectual Property Organization, Geneva (An agency of United Nations) on “Eco-friendly management of white grubs”- **as Team Leader**
  - **Societal Innovation Award-2008** by National Research Development Corporation, New Delhi, Ministry of Science & Technology, Govt. of India on “Eco-friendly Novel Technology for Managing White Grubs in North-West Himalayas.” The award included a cash prize of Rs. 3.0 lakh and citation.- **as Team Leader**
  - **ICAR Award for Outstanding Interdisciplinary Team Research in Agriculture and Allied Sciences for the Biennium 2005-06.** by Indian Council of Agricultural Research (ICAR), Govt. of India, New Delhi, 2008. The award included a cash prize of Rs. 1.0 lakh and citation. - **as Team Member**
  - **Outstanding Scientist Award-2009** by Uttarakhand Organic Commodity Board, Dehradun, Uttarakhand.
- n) Fellowship of Society:**
- Fellow of the Society for Biocontrol Advancement
- o) International conventions/conferences/Seminars etc.:**
- Attended 07 international conventions/ meetings/ workshop as member/team leader of Indian delegation.