

## H.R. SARDANA

Principal Scientist (Entomology), National Centre for Integrated Pest Management, Pusa Campus, New Delhi-12

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### Education:

PhD (Agril. Entomology) IARI, New Delhi

MSc. (Agril. Entomology) IARI, New Delhi

### Appointments:

2006 - present Principal Scientist (Entomology), NCIPM, New Delhi

1998 - 2006 Senior Scientist (Entomology), SBI,RC, Karnal

1985 - 1998 Scientist (Entomology), IHR, Bangalore

### Technologies / concepts developed:

- **Variety** - A highly pest resistant sugarcane variety **Co 89029 (Gandak)** suitable for North Central Zone of India especially North Bihar released by Govt. of India.
- A **new sampling technique** for early shoot borer of sugarcane, *Chilo infuscatellus* developed for use in its management. The technique allows the rapid classification of population for taking a rapid & accurate decision of chemical intervention.
- Developed Integrated Pest Management Technology (**IPM Tool Box**) for **brinjal and okra crops** for four years (2003 – 2007) in a Farmer's participatory Mode in Gaziabad District, Uttar Pradesh.
- **Software- Pest Management Information System (PMIS)** – User friendly interactive Generic Software compatible to most of the available computers was developed in MS Access as a decision making tool to identify and manage pests of **brinjal and okra**.
- A **novel Repellent Action of Neem Cake** against Rabbit Foraging on Brinjal crop was reported for the first time. A single application of neem cake @ 250 kg/ha in the field early in the season took care of rabbit foraging.
- Established ovipositional behaviour of sugarcane stalk borer for devising its management strategies.
- **Established sugarcane root borer-wilt complex relationship** only in those varieties which were prone to wilt or had a tendency to pick up wilt infection like Co 89003, CoC 671, Co 8347, Co 94018 and Co 7717. In others it did not occur inspite of the presence of root borer.
- Developed Integrated Pest Management Technology (**IPM Tool Box**) for bell pepper for five years (2008 – 2013) in a Farmer's participatory Mode in Karnal District, Haryana.

### Grants:

- **Team Leader (Tomato):** NICRA Project, Rs546.00 Lakhs
- **Principal Investigator:** NHB Project, Rs 09.20 Lakhs
- **COPI :** NATP MM project, NCIPM, Rs 5.0 Crores
- **CCPI :** Indo-UK DFID Project, Rs 43.00 Lakhs
- **Principal Investigator:** ICAR AP Cess-Fund Project, Rs 14.00 Lakhs

## **Publications:**

Books:	<b>4</b>
Book Chapters:	<b>16</b>
Total Research Papers:	<b>100</b>
Reports:	<b>1</b>
Reviews:	<b>1</b>
General articles:	<b>12</b>

## **Honours:**

- Best Poster Award for Research Paper on 'Estimation of residues in IPM & non-IPM produce of okra & Brinjal' by the Society of Pesticide Science, India, 2004
- First Prize for best oral presentation in the 'Technical Session on IPM' for research Paper on 'Validation of IPM technology on okra & brinjal – A wide area approach' by the Entomological Research association, 'National Conference on Applied Entomology: Current Status, Challenges and Opportunities' organised by MPUA & T at Udaipur on 26-28th September, 2005.
- Awarded 'SPPS Fellow' for outstanding contributions in the field of entomology by the Society of Plant Protection Sciences.
- Awarded 'Life Fellow' of Entomological Society of India for devotion to the 'Promotion of Research in Entomology'.
- Monitoring Report on research projects rated as 'OUTSTANDING' by Director -General, ICAR, New Delhi
- Under the AP Cess fund project on Vegetables, one of the adopted IPM farmers got first prize for producing better quality Okra & Brinjal in an exhibition organized by S.V. B. P. University of Agriculture & Technology, Modipuram during 2004

## **Professional Activities:**

- Research activities related to projects
- Extension activities related to transfer of IPM technologies
- Teaching/taking classes for IPM course for MSc/PhD students of IARI
- Activities connected with the build up of institution

## **Member of Professional Societies:**

- Entomological Society of India
- Society of Plant Protection Sciences
- Protection Association of India
- Society of Pesticide Science

## **Projects:**

- Demonstration, promotion and popularisation of Adaptable IPM Technology in Tomato and Bell pepper (Solanaceous vegetable crops) in a 'Farmers' Participatory Approach'' (PI)
- Validation and popularisation of deliverable IPM technology for Bulb vegetable crops (Onion) (PI)
- Pest dynamics in relation to climate change (NICRA) ----- Team Leader (Tomato)