

Profile of Scientist



1. **Name of the Scientist:** Dr. M. R. Singh
2. **Personal biodata:**
 - a) **Designation:** Senior Scientist (Ento.)
 - b) **Joining date in ICAR:** December 17, 1997
 - c) **Discipline and specialization:** Entomology, Integrated Pest Management, Toxicology
 - d) **Training / advance exposure in the area of work:**
 - Summer School on “Advances in sugarcane technology” (May 10 to 30, 2000) at IISR, Lucknow (UP).
 - Winter School on “Emerging trends in Biological Control” (March 10 to 31, 2005) at PDBC, Bangalore (Karnataka).
 - e) **Contribution to the scientific advancement:**
 - Rearing Technology for sugarcane black bug, *Dimorphopterus gibbus*
 - Rearing Technology for *Eumicrosoma* sp. an egg parasitoid of black bugs of sugarcane
 - Development of diet for rearing of Coccinellid predators
 - Standardization of doses of plant based insecticides against sucking pests of sugarcane and their effects on natural enemies in sugarcane eco system
 - Bioassay of genetically transformed sugarcane variety (with *CryIAb* gene) against sugarcane borer larvae
3. **Future Planning of research:**
 - Development of cost effective rearing techniques for mass multiplication of insect pests of sugarcane and their bio-agents
 - Biodiversity of insect pests of sugarcane and their bio agents
 - Use of insect behavioural activities in management of insect pests
 - Development of integrated biological control of sugarcane pests
4. **Publications:**

1. **M. R. Singh** and Varma Ashok. 2004. A technique for mass rearing of black bug, *Dimorphopterus gibbus* (Fabricius) (Hemiptera:Lygaeidae) *Indian Journal of Entomology* **66** (2) : 183-184.
2. **M. R. Singh** and Ashok Varma 2004. Bio-efficacy of non conventional insecticides against sucking pests of sugarcane. *Indian Journal of Sugarcane. Technology*, **19** (1&2) : 75-77.
3. **M. R. Singh** 2006. Field evaluation of sequential releases of *Trichogramma chilonis* Ishii and *Cotesia flavipes* Cameron against borer pests of sugarcane. *Indian Journal of Entomology*, **68** (4) : 408-409.
4. **M. R. Singh**. 2006. Biology of *Eumicrosoma* sp. (Hymenoptera:Sceilionidae) reared on the eggs of black bug, *Dimorphopterus gibbus* (Fabricius) (Hemiptera:Lygaeidae) of sugarcane. *Journal of Biological Control*, **20** (1) : 77-79.
5. **M. R. Singh**. 2007. Effect of bio-pesticides on *Trichogramma chilonis* Ishii and *Cotesia flavipes* Cameron parasitoids of borer pests of sugarcane. *Indian Journal of Entomology*, **68** (3): 218-220.

5. **Other relevant activities of Scientist:**

- Member of different institute building committees
- Source person for farmers and sugar mill staff training programmes (on campus and off campus) organized by Institute and KVK, Lucknow
- Referee for National and International Journals
- External examiner for M.Sc. Theses