

BIO DATA



Name: Dr. PREM SHANKER SINGH

Designation: Professor and Head
Department Entomology & Agricultural Zoology,
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Academic Qualifications:

Examination Passed	Board/ University	Year of Passing	Subjects
B.Sc.(Ag)	University of Gorakhpur, Gorakhpur	1977	Agriculture
M.Sc.(Ag.)	C.S.A. University of Agril. & Tech. Kanpur	1979	Entomology
Ph.D.	Banaras Hindu University, Varanasi	1987	Entomology & Agricultural Zoology

Area of specialization: Integrated Pest Management and Insect Ecology

Teaching Experience (UG and PG): 36 years

Publications: 86

Fellowships/Membership: (07)

Project Undertaken as PI/Co PI: 04

Ph.D. Students Supervised: 04 (01 Ph.D. Thesis Submitted)

Ph.D. Students under Supervision: 04

M.Sc. Students Supervised: 18

M.Sc. Students under Supervision: 02

Awards

- Life Fellow of Entomological Society of India from December 31st, 2008.
- Fellowship Award-2017 by Bioved Research Society, Allahabad for outstanding contribution in legume entomology.
- Awarded Mahima Agricultural Excellence Scientist Award by Mahima Research Foundation and Social Welfare during International Conference on “Climate change and its impact on crop production and food security at BHU, 12-13 November, 2016.
- Dr. Anand Prakash Award-2017 by Applied Zoologist Research Association (AZRA) Bhubneshwer, Odisha for outstanding contribution in the field of pest management of pulse crops like mungbean, fieldpea and chickpea and HPR too.
- Fellow of Indian Society of Pulses Research and Development (ISPRD), IIPR, Kanpur (U.P).

Medals

- Dr. S R. Bhargava Medal, 2012 in the area of agriculture” on 19 Feb.2012.Bioved Research Society Allahabad (U.P)

- Dr. M.R. Siddiqi Medal-2011 for outstanding contribution in the field of Entomology & Agril. Zoology on 19th Feb. 2011. Bioved Research Society Allahabad (U.P)

Contribution

- Studied the abundance of insect pest of pulses and found that whitefly (*Bemisia tabaci*) and spotted pod borer (*Maruca vitrata*) is the major insect pest for mungbean crop and Aphid, leaf miner and Pod borer (*H. armigera*) are the major insect pests of Field pea and *H. armigera* is the main insect pest of Chickpea.
- Screened the genotype of Mungbean, Urdbean, Field pea and Rajmash for resistance and identified some promising genotypes against major insect pests.
- Developed IPM module for Mungbean, Urdbean and Field pea for locality.
- Studied the effectiveness various newer chemicals against insect pests of mungbean and urdbean and found that Clothianidin, Imidacloprid, Acetamiprid, Difenthiuran and Spiromesifen effective against sucking pests while Indoxacarb, Spinosad found effective against pod borers.
- He also worked on host plant resistance against *H. arimgera* and identified some promising source of resistance. For the management of *H. arimgera* found that Indoxacarb and Spinosad are the effective chemicals. Studied the role protein, phenol, Sugar chlorophyll and phonological and Found that Phenol had negative impact on larval population and pod damage while Total pod/plant, Plant height and primary branches/ plant had positive impact on larval population.
- In stored grain pest management identified some source of resistance against *C. chinensis* and *C. maculates* and reported that loss varied from 33-62% in Chickpea and 11-43% in Mungbean. Studied the role of protein, phenol, Sugar, Trypsin inhibitor and Protease inhibitor and found that Protein, Sugar had positive impact on pod damage and phenol, Trypsin inhibitor and Protease inhibitor had negative impact on pod damage.