

Dr. CH. PADMAVATHI

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1. Personal bio-data:

- a) Position/Designation : Principal Scientist**
- b) Joining date in ICAR : 21 -09-1995, (DOB: 01/06/1967)**
- c) Discipline and Specialization : Agricultural Entomology**
- d) Training/advance exposure in the area of work:**

- Professional Development Programme in Agricultural Research for Development – Anglophone Program, January 22 to July 26, 2001 at International Center for Development Oriented Research in Agriculture(ICRA), The Netherlands.
- Refresher course on “Information Technology in Agriculture” from February 3-23, 2005 at National Academy of Agricultural Research Management, Hyderabad.
- Sensitization Workshop on “Intellectual Property Management in Agriculture”, held at Directorate of Rice Research, Rajendranagar, Hyderabad from January 29-30, 2008.
- Training program on “Developing Winning Research Proposals in Agricultural Research”, organized under NAIP at National Academy of Agricultural Research Management, Hyderabad from March 24-29, 2008.
- Training cum workshop on “Statistical Tools for Data Analysis”, held at Central Research Institute for Dryland Agriculture, Hyderabad from 2-7 March, 2009.
- MDP Workshop on “Project Monitoring and Evaluation (PME) of Agricultural Research and Development Projects”, organized at National Institute of Rural Development, Hyderabad during 6 – 10 September, 2010.

e) Contribution to the scientific advancement:

- Constructed and analysed mortality and fertility life tables of rice leaf folder in the field. Life table parameters like net reproductive rate, intrinsic rate of increase, finite rate of increase and weekly multiplication rates were worked out.
- Quantified yield losses caused by leaf folder at tillering and flowering stages of crop growth.
- Assessed the impact of leaf folder damage on crop physiological parameters viz., chlorophyll content, PS II activity and relative water content.
- Evaluated the insect pest scenario in SRI method of rice cultivation
- Studied the effect of constant temperatures on development of leaf folder

2. Future Planning of research:

- Mechanisms of resistance and identification of molecular markers for resistance to leaf folder
- Refinement/ development of artificial diet for mass rearing of leaf folder
- Research into development of Decision support system (DSS) for rice leaf folder
- Generation of spectral characteristics for leaf folder damage
- Insect pest scenario and their management in SRI method
- Geographical variation in the populations and species of leaf folder
- Evaluation of transgenics for resistance to leaf folder

3. Publications:

- **Padmavathi, Ch.,** R. Mahender Kumar, L.V. Subba Rao, K. Surekha, M. Srinivas Prasad, V. Ravindra Babu and I. C. Pasalu. 2009. Influence of SRI method of rice cultivation on insect pest incidence and arthropod diversity. *Oryza* 46 (3): 227 – 230.
- **Padmavathi, Ch.,** Gururaj Katti, A.P.Padmakumari and I.C.Pasalu. 2008. Prevalence, prey preference and predatory potential of Staphylinid beetle, *Paederus fuscipes* Curtis and Carabid beetle, *Ophionea* sp. in rice. *Journal of Biological control* 22(1): 191-193
- **Padmavathi, Ch.,** Gururaj Katti, A.P.Padmakumari and I.C.Pasalu. 2008. Mortality and fertility life tables of leaf folder *Cnaphalocrocis medinalis* Guenee (Lepidoptera: Pyralidae) in rice. *Entomon* 33 (2): 1-13
- **Padmavathi, Ch.,** Gururaj Katti, A.P.Padmakumari and I.C.Pasalu. 2006. Comparative bionomics of leaf folders, *Cnaphalocrocis medinalis* Guenee and *Marasmia patnalis* Bradley in rice. *Entomon* 31(4): 1-8.
- **Padmavathi, Ch.** and A.V.N. Paul. 1998. ‘Saturated Hydrocarbons as Kairomonal Source for the Egg Parasitoid, *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae).’ *Zeitschrift fur angewandte entomologie (Journal of Applied Entomology)*, **122**: 29-32

4. Other relevant activities of Scientist:

- Co-Principal Investigator in NAIP Consortium on, “Research into development of Decision Support Systems for insect pests of major rice and cotton based cropping systems”
- Assisting in the coordination of All India Coordinate Rice Improvement (AICRIP) related to Entomology trials
- Acting as Joint secretary, Institute Research Council, DRR
- Acting as a resource person in training programmes organized by DRR and other outside organizations.
- Acting as a member of Advisory committee for M.Sc (Ag) and Ph.D students of Agricultural Entomology disciplines of ANGRAU.