BIO-DATA OF J.B. NARENDRA KUMAR, SCIENTIST – D

Name : J. B. NARENDRA KUMAR, *M.Sc. (Agri)* in Agril. Entomology - UAS-B

Designation : Scientist -D

Phone : (O) + 91 – 821 – 2903285

Mobile : 80502 62683

E-mail : jbnarendra@gmail.com; jbnarendra@yahoo.com

Specialization : Agricultural Entomology

Publications : Research Papers: - Total: 22; **as first author**: 12
Popular articles: 24
Books: 03
Book chapter: 01
Documentary CDs: 03
Short Notes/Reports: 12
Seminar Presentations: 26

Area of interest: Integrated Pest Management, Biodiversity & conservation of natural enemies, Biological control.

Awards/Appreciation:

(1) **Best poster award** (as first author) for a research paper entitled **"**Classical biological control of papaya mealybug, *Paracoccus marginatus"*. Infesting mulberry in Karnataka" Presented at National Conference "RAMBSWERD-2013", 24-26th October 2013 held at KSSRDI, Thalaghattapura, Bangalore.

(2) **Best paper award** (as co-author) for a research paper entitled **"**A successful case study of classical biological control of papaya mealybug, *Paracoccus marginatus"*. Presented at *National Symposium on harnessing biodiversity for biological control of crop pests*, 25-26th May 2011 held at National Bureau of Agriculturally Important Insects (NBAII), Bangalore.

(3) **Three Appreciation letters for significant contribution towards**
(i) Classical Biological Control of the exotic pest, papaya mealybug infesting mulberry in Karnataka State.
(ii) Cluster Promotion Programme in Karnataka during XI plan.
(iii) Large scale field trial of New Cross Breed L14 x CSR2.

Selected Research Publications:

Narendra Kumar, J. B., Veeraiah, T. M. and Jayaraj, S. 2004. Bio-suppression of Tukra mealy bug, *Maconellicoccus hirsutus* Green in Mulberry. In: *Operational methodologies and package of practices in organic farming* (Edited by Prof.G.K.Veeresh & Published by Association for promotion of organic farming (APOF), Bangalore.

Narendra Kumar, J. B., Veeraiah, T. M., Shanthala, R and Jayaraj, S. 2005. Seasonal incidence and biological suppression of mulberry leaf roller, *Diaphania pulverulentalis* in South India. *Modern Journal of Life Sciences*, **4**(1-2): 11-16.

Anantha Raman, K. V., **Narendra Kumar, J. B**., Sudhakar, P. and Kamble, C. K. 2008. On the suitability of some leguminous green manure crops in irrigated mulberry gardens. *Green farming*, **1**(12): 36-38.

Narendra Kumar, J. B., Divya, S. H., Shekhar, M. A. and Qadri, S. M. H. 2011. Silkworm as alternate host material for production of green lacewing, *Mallada desjardinsi* (Neuroptera: Chrysopidae) – A predator of lepidopteran pests in mulberry. *J. Biol. Control*, **25**(4): 326-328.

Narendra Kumar, J. B., Shylesha, A. N., Divya, S. H., Shekhar, M. A. and Qadri, S.M.H. 2011. A review on the bio-ecology and management of the papaya mealybug, *Paracoccus marginatus* (Hemiptera: Pseudococcidae) – A serious exotic invasive pest of mulberry in south India. *J. sericulture and Technology*, **2**(1): 24-35.

Shekhar, M. A., **Narendra Kumar, J. B**., Sreenivas, B. T. and Divya, S. H. 2011. Papaya mealybug, *Paracoccus marginatus* infesting mulberry in Karnataka. *Insect Environment*, **16**(4): 170- 172.

Shylesha, A.N., Rabindra, R.J., Shekhar, M.A., Vinod Kumar, **Narendra Kumar, J.B**., and Krishnamurthy, A. 2012. Impact of classical biological control of papaya mealybug, *Paracoccus marginatus* using *Acerophagus papayae* in Karnataka. In: *Classical Biological Control of papaya Mealybug (Paracoccus marginatus) in India- A Success Story*, Technical Document No. 64, January, 2012, NBAII, Bengaluru (Eds: A.N. Shylesha *et al*.).pp: 73-78.

Narendra Kumar, J.B., Divya, S.H. and Shekhar, M.A. 2013. An innovative method for transfer of crawlers from old mealybug colony to fresh pumpkins to reduce colony developmental period. *Proceedings of Golden Jubilee National Conference on Sericulture Innovations: Before and Beyond,* 28-29th January 2011 held at CSR&TI, Mysore, India, 282-285.

Narendra Kumar, J.B., Divya, S.H., Sreenivas, B.T. and Shekhar, M.A. 2012. Number of adult beetles and age of the host influencing oviposition behaviour of *Cryptolaemous montrouzieri* Mulsant. *Insect Environment*, **17**(4): 169-170.

Narendra Kumar, J.B., Divya, S.H., Sreenivas, B.T., Shekhar, M.A. and Qadri, S.M.H. 2012. Bio-ecology and management of Aleyrodids infesting mulberry in India – A review. *J. sericulture and Technology*, **3**(1 & 2): 28-37.

Narendra Kumar, J.B., Divya, S.H., Sreenivas, B.T. and Shekhar, M.A. 2013. New White fly species *Dialeuropora decempuncta* Quaintance (Homoptera: Aleyrodidae) infesting mulberry in Karnataka. *Insect Environment*, **19**(2):108-109.

Narendra Kumar, J.B., Jayaram, H., Morrison, N. and Qadri, S.M.H. 2013. Farmers' Perceptions of Insect Pests and Pest Management Practices in sericulture under Shapur Cluster, Kolar District of Karnataka. *Indian J. Seri*, **52**(2): 18-22.

NATIONAL TRAINING:

(1) Refresher Training Course at CSR&TI, Mysore for two months on "Mulberry cultivation & Silkworm Rearing".
(2) Training at CSR&TI, Mysore for one month on "Pest & Disease management".
(3) Training in Mass production of exotic parasitoids of papaya mealybug at NBAII, Bangalore.

RESEARCH CONTRIBUTION / VALIDATION

- Popularization of use of bio-control agents in sericulture.
- Refinement in raising of pink mealybug on sweet pumpkin through better utilization of crawler population (*viz.,* **crawler trapping technique to avoid wastage of host insect in commercial insectaries**).
- **First Report** on the occurrence of papaya mealybug, *Paracoccus marginatus* in Mysore and Chamarajanaga districts of Karnataka.
- Successful implementation of **Classical biological control of papaya mealybug**, *Paracoccus marginatus* in Karnataka state through multiplication & inoculative field release of exotic parasitoid, *Acerophagus papayae*.
- Refinement in mass production and easy collection method of exotic parasitoid, *Acerophagus papayae.*
- The inoculative field release of the exotic parasitoid suppressed the papaya mealy bug population by >98 % with nil application of insecticides. This served as a long lasting solution for papaya mealy bug menace in mulberry.
- **First report** on the occurrence of new white fly species *Dialeuropora decempuncta* on mulberry in Mandya & Mysore districts.
- **First report** on giant African snail posing as pests of mulberry.
- **First report** on millipedes posing as pests of mulberry in Mandya district.
- Successful production of chrysopid predators by utilizing rejected mulberry chawki silkworms and eri chawki worms.

MEMBER OF SCIENTIFIC SOCIETIES/JOURNALS:

1. Life Member of National Academy of Sericultural Sciences, India (NASSI)
2. Life Member for Indian journal of Sericulture (IJS)
3. Member of Society for Bio-control Advancement
4. Life Member for Insect Environment

INVITED REVIEWER FOR FOLLOWING PEER-REVIEWED INTERNATIONAL JOURNALS

(i) SERICOLOGIA
(ii) African Journal of Agricultural Research (AJAR)
(iii) International Journal of Biotechnology Research (IJBR)