

Brief resume of Vishlesh Shankar Nagrare

Dr. Vishlesh Shankar Nagrare

Designation

Senior Scientist (Agricultural Entomology)

Central Institute for Cotton Research

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EMPLOYMENT TRACK

Senior Scientist	CICR Nagpur	2008-Present
Scientist Senior Scale	CICR Nagpur	2007-2008
Scientist Senior Scale	NRCO, Sikkim	2003-2007
Scientist	NRCO, Sikkim	1999- 2003

Date of Birth and Birthplace: 9th October 1971, Nagpur, India

CITIZENSHIP: Indian

ACADEMIC QUALIFICATION

Ph D	Ag. Entomology	IARI, New Delhi	1999
M.Sc.	Ag. Entomology	PDKV, Akola	1996
B. Sc	Agriculture	PDKV, Akola	1994

Work experience: 13 years

RESEARCH INTERESTS

Primary Research Area: Sustainable sucking pest management

Current research areas

- Development of decision support systems for management of insect pests of major cotton based cropping systems
- Development of sustainable management strategies for sucking pests of cotton with particular reference to mealybugs and mirids.

RESEARCH PROJECTS HANDLED (2007-12)

Sl. No	Project title	Funding Agency	Period	Role
1.	Research into development of decision support systems for management of insect pests of major rice and cotton based cropping systems.	NAIP- world Bank	2008-2013	CCPI
2.	Emerging and key pests: their characterization, taxonomy, genetic diversity and control.	TMC	2007-2012	CoPI
3.	Development and validation of IPM / IRM strategies for Bt and conventional cotton under different eco-systems.	TMC	2007-2012	CoPI
4.	Development, validation, utilization and/ or commercialization of biopesticides and bio inoculants	TMC	2007-2012	CoPI
5.	Development of transgenic diploid cotton for insect resistance.	Institute	2008-2011	CoPI,
6.	Collection, conservation, evaluation, documentation and maintenance of germplasm of cultivated species of <i>Gossypium</i> .	Institute	2006-2013	CoPI
7.	Amelioration of leaf reddening and parawilt in cotton.	Institute	2010-2013	CoPI
8.	Crop pest surveillance and advisory project (CROPSAP) in Maharashtra.	RKVY	2009-2013	PI
9.	Studies on bionomics and management of mealybug.	Institute	2008-2010	PI
10.	Ecological – based approaches for sustainable sucking pests management.	Institute	2008-2010	PI
11.	Studies on Tobacco Streak Virus (TSV) infecting Cotton in India	Institute	2008-2009	CoPI

SEMINAR/ SYMPOSIA/ CONFERENCE/ WORKSHOP ATTENDED

Name of Seminar/ Symposia/ Conference/ Workshop	Period	Place
Annual meeting of American Society of Agronomy/ Crop Science Society of America/ Soil Science Society of America	16-19 Oct 2011	San Antonio, Texas, USA
National Symposium on "Bt cotton: Opportunities and Prospects	17-19 Nov 2009	CICR, Nagpur
National Seminar on Intellectual Property Rights	30 May 2008	NIIPM, Nagpur
Seminar on 7 th programme of European Union – Opportunities for cooperation between India and European union researchers and Research Organization	18 July 2008	Pune
National Seminar on second green revolution necessity or compulsion	19-21 Oct 2008	Adilabad, AP
2 nd Indian Horticulture Congress on Opportunities and Linkages for Horticulture Research and Development (Focus- North Eastern Region),	18-21 April 2007	Shillong, Meghalaya

National conference on Applied entomology: current status, challenges and opportunities,	26-28 Sept, 2005	Udaipur
1 st Indian Horticulture Congress 2004	6-9 Nov 2004	New Delhi
National Symposium on Frontier Areas of Entomological Research	5-7 Nove, 2003	New Delhi,
6 th National Seminar on Orchid Diversity in India: Science and Commerce and Orchids	11-13 Oct 2001	Palampur (HP)

TRAINING & EXPOSURE

International

- ✚ Sensor Based Technologies and application for natural Resource management at Colorado State University from August 15th 2011 through 15th November 2011 at Department of Soil and Crop Sciences, Colorado State University, Fort Collins, Colorado, USA.

National

- ✚ Biochemical and Molecular Biology Advanced Techniques, 18 November - 08 December 2008, IARI, New Delhi
- ✚ Biosystematics of agriculturally important insect and mite biodiversity, 8-28 November, 2006, TNAU, Coimbatore.
- ✚ Model Training Course on Insecticide Resistance Management in Cotton 23- 30 October 2007, CICR, Nagpur.
- ✚ Intellectual Property Rights and World Trade Organization, 5-9 December 2005, ASCI, Hyderabad.
- ✚ Refresher course on Agricultural Research Project Management 18 September to 08 October 2001, NAARM, Hyderabad
- ✚ 71st Foundation course for Agriculture Research Service 25 August - 22 December 2000, NAARM, Hyderabad

TRAINING ORGANIZED

- ✚ Conducted 2 days duration trainings for 242 Master Trainers and SDAO's of Govt. of Maharashtra in 4 batches viz., 9 & 10, 16 & 17, 24 & 25 September and 27 & 28 October 2009 at CICR, Nagpur

INVITED TALKS

1. Strategies for pest management in cotton, 12-13 July 12, VANAMATI, Nagpur.
2. Cotton Crop, key insects, life cycles and damage, 17.5.2012, Nagpur
3. Pest management Organic cotton production, 31.8.2010 to 1.9.2010, CICR, Nagpur
4. Cotton Scenario: Pest and disease management perspective in Maharashtra, 19.6.11, Aurngabad.
5. Pest and disease management strategies in cotton, Agro Vision 2012, 30.01.2012, Nagpur.
6. Pest and disease management strategies in cotton, 10.02.2012 CICR, Nagpur.
7. Cotton pest and disease management, 27.3. 2012, Gadchandur, Dist Chandrapur
8. Pest management in cotton , 30.5.10, Pusad, Yeotmal.
9. Pest management in Bt Cotton 6.1.2010, VANAMATI, Nagpur

10. Kapashivaril Kid Vyavashthapan Ranniti (Marathi), 26.5.2008 Pusad, Yavatmal
11. Kapashivaril Kid: Vyavashthapan Ranniti (Marathi), 1.7.2008. Yavatmal
12. Cotton mealybug management, 26.07.2008, Arwi, Wardha.
13. Cotton mealybug management 30-31 July 2008, CICR, Nagpur.
14. Cotton pest management strategies 25.9.2008, CIPMC, Nagpur.
15. Cotton Mealybug Management 23.9.2008, CICR, Nagpur.
16. Strategies for cotton pest management (Marathi) in KAPAS MELA 08-09, 23.10.2008, CICR Nagpur.
17. The WHO Recommended Classification of Pesticides by Hazard on 25th October 2007, CICR, Nagpur
18. Pest and disease management in Cymbidium in Production Technology of Cymbidium on 18.8.2006, Tadong, Sikkim
19. Pest and disease management in Cymbidium, Pakyong, Sikkim
20. Pests and Diseases of Orchids and their Management 15-19th Sept, 2006, Mirik, Darjeeling
21. Orchid management in NEH region, 28-30th Jan. 2004, Barapani, Meghalaya.
22. Radio talk: Bt Kapashisathi Kid Vyavashthapan Ranniti 2008 on 26.6.2008, broadcasted on 28.6.2008 AIR, Nagpur.
23. Emerging pests of cotton, 27.11.07 AIR, Nagpur.
24. TV talk: Mealybug occurrence and its management Nagpur doordarshan recorded 17.06.2008

TECHNOLOGY DISSEMINATED

- 📺 Disseminated eco-friendly mealybug management strategies through print media, presentations, lectures etc.
- 📺 Disseminated cotton pest management strategies through ICT under Crop pest surveillance and advisory project (2009-13)

AWARDS/ REWARDS/ RECOGNITION

- **NATIONAL GOLD AWARDS ON e- GOVERNANCE 2011-12** under the category 'Exemplary Re-Use of ICT Based Solutions' by Department of Administrative Reforms & Public Grievances, Government of India to project Crop pest surveillance and advisory project (CROPSAP)- Principal investigator for CICR which is one of the partners in the award citation.
- **Best Poster Award** for Vennila, S. Meenu Agarwal, **Nagrare, V.S.** Jitendra Singh and Prasad, Y.G. 2012. Description, damage, scenario, weather based prediction and management of mirid bugs (*Campylomma livida* – Miridae: Hemiptera) on rainfed cotton of Central India. Paper presented at the International Conference on Plant Health Management for Food Security, held during 28-30 November 2012 at Hyderabad by Plant Protection Association of India.

PUBLICATIONS

Research articles

1. Vennila S, Agarwal Meenu, **Nagrare V S**, Prasad Y G, Prabhakar M. 2014. Ornamental hosts of cotton mealybug (*Phenacoccus solenopsis*). *The Indian Journal of Agricultural Sciences*. **84(1)**:161-163.
2. Kumar Rishi, **Nagrare V. S.**, Nitharwal Mukesh, Swami Dinesh and Prasad Y. G. 2013 Within-plant distribution of an invasive mealybug, *Phenacoccus solenopsis*, and associated losses in cotton. *Phytoparasitica*, DOI 10.1007/s12600-013-0361-6. Published online on 7 November 2013, DOI 10.1007/s12600-013-0361-6.
3. **Nagrare V.S.**, Rishi Kumar, Amutha M., Dharajothi B., Kranthi S., Vennila S., Deshmukh A.J., Bisane K.D., Manjula, Kranthi K.R. 2012. A record of host plants of mealybug, *Phenacoccus solenopsis* Tinsley for devising ecofriendly management strategies. *J. ent. Res.*, 36 (4) : 327-344
4. Meena N.K., **Nagrare V.S.** & Medhi R.P. 2011. Thrips, *Dichromothrips nakahari* Mound (Thysanoptera: Thripidae) infesting the Orchids in India-A new report . *Indian Journal of Horticulture* **68(4)**:587-588.
5. Dharajothi B., Sonai Rajan T., **Nagrare V.S**, Amutha M., Rishi Kumar & Surulivelu T. 2011 Influence of spatial cropping pattern of cotton cultivation on population dynamics of mirid bug, *Creantiaades biseratense*(Distant) In Book of paper of World Cotton Research Conference-5 edited by Kranthi K.R., Venugopalon M. V., Balasubryamanya R.H, Kranthi S., Singh S. B. Excel India Publishers New Delhi 210-215
6. Kranthi S. , Kranthi K.R., Rishi Kumar, Dharajothi, Udikeri S.S, GMV Prasad Rao, Zanwar P.R., **Nagrare V.S.**, Naik CB., Singh V, Ramamurthy .V.V, Monga D. 201. Emerging and Key insect pest on Bt cotton. Their identification, taxanomy, genetic diversity and management. Presented in world Cotton Research Conference -5, Nov.7-11, 2011, Mumbai India.
7. Kranthi K. R., **Nagrare V. S.**, Vennila S, and Kranthi S. 2011. Packages of Practices for Mealybug management. *The ICAC Recorder* **29(1)** 1.4.11.
8. **Nagrare, V. S.**, Kranthi, S., Biradar, V. K., Zade, N. N., Sangode, V., Kakde, G., Shukla, R. M., Shivare, D., Khadi, B. M. and Kranthi, K. R. 2009. Widespread infestation of the exotic mealybug species, *Phenacoccus solenopsis* (Tinsley) (*Hemiptera: Pseudococcidae*) on cotton in India. *Bulletin of Entomological Research* **99**, 537-541
9. Pal, R., **Nagrare, V. S.**, and Dayamma, M. 2010. Notes on growth and flowering behaviour of *Liparis cordifolia* J.D. Hook (Orchidaceae): a beautiful terrestrial orchid. *Indian Forester* **136**: 228-233.
10. **Nagrare VS**, Rampal & Barman D. 2009 Pests associated with orchid *Dendrobium nobile* under Mid-Altitude of Sikkim. *Environment and Ecology* **27(2)**: 560-562
11. Rampal, Dayamma M. and **Nagrare V. S.** 2009. Effect of BAP (6 benzyle Amino purine) on bud break and plantlets regeneration from the back bulbs of *Calanthe yucksomnesis* S. Z. Lucksom (Orchidaceae), *Indian Journal of Forestry*, **32 (1)**: 65-68
12. **Nagrare, V. S.** and Rampal 2008. Response of acaricides against two spotted spider mite *tetanychus urticae* Koch infesting cymbidium under polyhouse in Sikkim, *Journal of Ornamental Horticulture*, **11(2)**: 104-106.
13. **Nagrare, V. S.** 2008. The occurrence of Mite *Brevipalpus essigi* Baker (Acari: Tenuipalpidae) on Orchid *Dendrobium nobile* in Sikkim, India, *Science and Culture* **74 (1-2)**: 87
14. Barman D., Rai B, Bharati T. U., **Nagrare V. S.**, Medhi R. P. 2007. Influence of chemicals on vasselife of Cymbidium hybrid variety Hallyes Comet Aurora, *Journal of Ornamental Horticulture*, **10(4)**: 240-244.
15. **Nagrare, V. S.** 2006. Aphid *Macrosiphum luteum* (Bukton) infests the orchid *Vanda coerulea*-A new report. *Entomon* **31(3)**: 225-227,
16. **Nagrare, V. S.** 2006. A new record of the scale *Diaspis boisduvalii* (Signoret) (Hemiptera : Diaspididae) infesting the orchid *Dendrobium nobile* , *Entomon*, **31(1)**: 339-340.

17. **Nagrare, V. S.** 2006. Pest complex of orchid *Dendrobium nobile*. *Insect environment* 12(3): 101,
18. **Nagrare, V. S.** 2005. New Record of Shoot Borer *Peridaedala* sp. (Lepidoptera: Tortricidae) and its Host Range of Orchids. *Entomon*, 30(4): 359-360.
19. **Nagrare, V. S.** A new record of black weevil (*Sipalinis* sp) damage on orchids. *Ann. Pl. Protec. Sci.* 13(2): 490-491, 2005.
20. **Nagrare, V. S.** 2004. The black aphid, *Toxoptera aurantii* (B. De F.) infests the Orchid, *Oncidium Gower Ramsay*. *Entomon* 29(2): 193-195,
21. **Nagrare, V. S.** 2004. Occurrence of Mollusca *Cryptaustenia verrucosa* (Godwin – Austin) on Orchid *Calanthe* spp.- A new report. *Sci & Cult.* **70**(7-8): 289,
22. **Nagrare, V. S.** 2003. Occurrence of aphid *Toxoptera aurantii* on orchid *Dendrobium densiflorum*- A new report. *Ann. Pl. Protec. Sci.* **11**(2): 379,
23. **Nagrare, V. S.** and P. Bhatia. 2002. Susceptibility of bruchids reared on three pulses to gamma radiation. *Journal of Insect Science*, **15** (1&2):40-42,
24. **Das L., Mishra S. K., Burman R. R., Nayak A. K., Mahanta K.K., Nagrare V. Doley S.** 2002. Problem identification through participatory rural appraisal. *Indian journal of Extension education* 38(3-4): 226-230.
25. **Nagrare, V. S.** 2001. Pests of orchids and their management in Sikkim- A survey. *J. orchid Soc. India.* **15**(1-2): 65-68,
26. **Nagrare, V. S.** and P. Bhatia. 2001. Longevity of F₁ progeny of irradiated adults of Bruchids on grain pulses. *J. Appl. Zool. Res.* **12** (1): 64-66,
27. **Nagrare, V. S.** and P. Bhatia. 2000. Effect of gamma radiation on the emergence of F₁ adults of Bruchids on different pulses. *J. Nuclear Agric. Biol.* **29** (3-4): 207-211.
28. **Nagrare, V. S.** and P. Bhatia. 2000. Effect of gamma radiation on egg hatchability of Bruchids developing in three pulses. *J. Nuclear Agric. Biol.* **29** (1): 8-12.
29. **Nagrare, V. S.** and G. D. More. 1998. Economics in using bioagents against *Helicoverpa armigera* on pigeonpea. *Indian J. Ent.* **60**(2): 203-206.

Papers in conference proceedings/ book chapters

1. **Nagrare, V. S.** 2003. Pest complex of orchids. Proceedings of the National Symposium on Frontier Areas of Entomological Research, 5-7 November, 2003, New Delhi, pp. 633,
2. **Nagrare, V. S.** 2003. Pests of bulbous ornamentals and their management. *In: Bulbous ornamentals.* (Ed. Rajeevan P. K., Singh K. P. Valsalakumari P. K. Geetha C. K.). Published by Indian Society of Ornamental Horticulture , Division of Ornamental Horticulture , IARI, New Delhi, pp 161-176.
3. Kranthi .S, Kranthi K.R, Rishi Kumar, Dharajothi, Udikeri S.S, GMV Prasad Rao, Zanwar P.R., **Nagrare V.S.**, Naik CB., Singh V, Ramamurthy .V.V, Monga D. 2011. Emerging and Key insect pest on Bt cotton. Their identification, taxonomy, genetic diversity and management .World cotton Research Conference-5, book of papers edited by kranthi K.R Venugopalram M.V, Balsuramanya R.H, Kranthi S. Singh SB, & Blaise. Excel India Publishers New Delhi 281-286.

Popular articles/ short notes/ short communications

1. **Nagrare V S,** Pal R. 2008. A viable option- Cultivating potted orchids fetches more. *Indian Hort*, 53(2), 24-6
2. **Nagrare V. S.** Bt kapashsathi kid vyavasthapan ranniti - 2008 in Kapus Lagwad Tantradyan Mahiti Pustika 2008-09 (Marathi) published by Agriculture department Govt of

- Maharashtra released on 26 May 2008 at Kapus Utpadan Parisanwad organized by Vasantrya Naik Smriti Pratishtan, Pusad and Agricultural department govt of Maharashtra.
3. **Nagrare V. S.**, Kranthi S., Khadi B.M. & Kranthi K. R. Infestation of Indian cotton by mealybug species, *Phenacoccus solenopsis* (Tinsley) (Hemiptera: Pseudococcidae). CICR Newsletter, 24(3), July- Sept 2008.
 4. Kranthi S., Kranthi K. R., Zade N. N. Shivare D., Vennila S., **Nagrare V. S.** & Ramamurthy V. V. Record of parasitoid population on a predator, CICR Newsletter, 24(3), July- Sept 2008.
 5. **Nagrare, V. S.**, Kranthi K. R. and Gupta R. R. 2007. Bharat Aur Pakistan Main Kapas Par Mealybug Ka Prakop: Ek Paridrushya (Hindi), Kapas Samachar, CICR Nagpur, Oct –Dec 2007.
 6. **Nagrare, V. S.** Managing pests in orchid flower production. *Indian Horticulture* 52(2), March-April 2007: 10-11.
 7. **Nagrare, V. S.** and D. Barman 2007. Cultivation technique for Cymbidium. *Floriculture Today*, June 2007: 14:22
 8. Nagaraju V., **Nagrare V. S.**, Chakrabarti Syamali and Rampal North- East: A heaven for orchids, *Souvenir*, North-East Expo 2006, Dimapur, Nagaland. Published by Department of Agriculture and Cooperation, New Delhi pp. 55-66
 9. Ram Pal and **Nagrare, V. S.** Adbhut rup Cymbidium ka. *Falful*, April-June, 2005, pp19-21 (Hindi), 2005.
 10. **Nagrare, V. S.** The black aphid *Toxoptera aurantii* infesting Orchids, *Orchid News* Vol. 20 December 2004, Published by The Orchid Society of India, Chandigarh
 11. Ram Pal and **Nagrare, V. S.** Cymbidium sunakhari Fulko kheti Keen? Kahan? Ani Kasari garne? Part 1, 2, 3, September 3-5, 2004, Himalayan Darpan, Siliguri (Nepali)
 12. **Nagrare, V. S.** and Bag, T. K. Under greenhouse- Pest management in Gerbera. *Krishak Samachar*. 46(8):7-8, 2001
 13. **Nagrare, V. S.** World of Orchids, *Employment News*. Vol.XXVI No. 16, 21-27 July 2001
 14. Rao, S. R. K. and **Nagrare, V. S.** Wax moth threat to bee colony. *The Hindu*. 18. 03. 1999

Research bulletin/ extension bulletins

1. **Nagrare VS**, Kranthi S Kranthi KR, CB Naik, & Sampath Kumar A. 2014. Kapashivaril Kidi va Roganche Prabhavi Niyantran (Manage pests and diseases of cotton effectively (Marathi), CICR, Nagpur.
2. **Nagrare Vishlesh**, Tayde Arjun, Gupta RR, Kranthi sandhya, Kranthi K R (2012) Cotton mealybug management CICR, Nagpur
3. Vennila S., Prasad Y.G., Prabhakar M., Rishi Kumar, **Nagrare V. S.**, Amutha,M., Dharajyothi B., Meenu Agarwal, Sreedevi G., Venkateswarlu B., Kranthi K.R. and Bambawale O.M. (2011). Spatio-temporal Distribution of Host Plants of Cotton Mealybug, *Phenacoccus solenopsis* Tinsley in India, *Technical Bulletin No. 26*, National Centre for Integrated Pest Management, New Delhi P 50.
4. **Nagrare V. S.**, Kranthi S., Rishi Kumar, Dharajothi B., Amutha M., Deshmukh A.J., Bisane K. D., Kranthi K. R. (2011). Compendium of Cotton Mealybugs. Technical Bulletin, Central Institute for Cotton Research, Nagpur, P 42
5. Kranthi. K. R., Kranthi, S, **Nagrare V. S.**, Rameash K., Barik A. Advances in cotton IPM, CICR, Nagpur, 2009
6. Barman D, **V. S. Nagrare**, K. Rajni, T. K. Bag, S. K. Naik, and R. C. Upadhyaya Cymbidium cut flower production. National Research Centre for Orchids, Pakyong, Sikkim, 2007.
7. Ram pal and **V. S. Nagrare**. Orchid diversity of India: its conservation and sustainable utilization. National Research Center for orchids, Pakyong, Sikkim, 2006.
8. **Nagrare, V. S.** The Incredible Orchids, National Research Center for orchids, Pakyong, Sikkim, 2006.

9. Nagaraju, V., Upadhyaya, R. C., Barman, D., **Nagrare, V. S.**, Bag, T. K., Sarkar, J. Orchids in North Eastern States. National Research Center for orchids, Pakyong, Sikkim, 2006.
10. **Nagrare, V. S.** Pests of orchids and their management. National Research Center for orchids, Pakyong, Sikkim, **2005**.

Paper presented in Conference/ Seminar / Symposia

1. Vennila S., Agarwal Meenu, Nagrare V S, Singh Jitendra and Prasad Y G (2012) Description, Damage, Scenario, Weather based Prediction and Management of Mirid Bugs (*Campylomma livida* Reuter; Miridae; Hemiptera) on Rainfed Cotton of Central India presented in international conference on plant health management for food security, Hyderabad, 28-30 Nov 2012.
2. Prakash A.H., Kranthi K.R., **Nagrare V.S.**, Kranthi S., Gotmare V. (2011) Do foliar application of nutrients, PGR and insecticides control leaf reddening in cotton, Presented in World Cotton Research Conference -5, Nov 7-11, 2011, Mumbai India
3. **Nagrare V.S.**, Deshmukh A.J., Dharajothi B, Amutha M., Rishikumar, Kranthi S. and Kranthi K.R. 2011. Sampling methodology for assessing field population of cotton infesting mirid *Campylomma livida* Reuter (Hemiptera: Miridae), Cotton Research Conference-5, Nov 7-11, Mumbai, India.
4. Kranthi S., Kranthi K. R., **Nagrare V. S.**, Kshirsagar M., Kadu S., Zade N. N. Exploitation of induced resistance for cotton pest management. *In* Proceedings of Bt Cotton: Opportunities and Prospects, pp 199-205 (2010).
5. **Nagrare V. S.**, Kranthi, S. Kranthi. K. R. Reduction of mirid bug (*Campylomma livida* Reuter) population by employing different methods of application of insecticides and bio-formulations. Paper presented in National Symposium on Bt cotton: Opportunities and Prospects, 17-19 November, 2009, Nagpur.
6. **Nagrare, V. S.**, Kranthi, S., and Kranthi, K. R. Indian cotton infested by the exotic mealybug *Phenacoccus solenopsis* Tinsley: Strategies to contain the threat. National Seminar on Second green revolution necessity or compulsion, 19-21 October 2008, Adilabad, AP.
7. **Nagrare V.S.** Management of pests under protected cultivation of orchids. 2nd Indian Horticulture Congress on Opportunities and Linkages for Horticulture Research and Development (Focus- North Eastern Region), 18-21 April 2007, Shillong, Meghalaya.
8. **Nagrare, V. S.** Record of new pests in orchid cultivation. National conference on applied entomology: current status, challenges and opportunities, 26-28 September, 2005, Udaipur
9. **Nagrare, V. S** and Ram Pal. Orchids production: Issues to be addressed 1st Indian Horticulture Congress 2004, 6–9 November 2004, New Delhi.
10. **Nagrare V. S.** and Upadhyay R. C. Pests of orchids and their management in Sikkim- A survey. 6th National Seminar on Orchid Diversity in India: Science and Commerce and Orchids, 11-13 October 2001, Palampur (HP).
11. **Nagrare, V. S.** and Upadhyaya R. C. Pest interception in Bulbous Ornamentals Under Mid Hill Conditions of Sikkim. National Symposium on Ornamental Bulbous Crops 5-6 December, 2006, Sardar Vallabh Bhai Patel University of Agriculture and Technology, Meerat-250110 (UP)
12. **Nagrare, V. S.** Emerging pests of orchids. National Symposium on Recent trends and future strategies in Ornamental Horticulture, 1- 4 December, 2004, Dharwad, Karnataka.
13. Upadhyaya, R. C.; V. Nagaraju, S. P. Das, Gyanalok Das, D. Barman, Rampal, **V. S. Nagrare** T. K. Bag, and S. Chakrabarti. Exploration, characterization and conservation of ornamental orchids. National Symposium on Recent advances in Indian floriculture, 12-14 November 2003, Kerala Agricultural University, Vellanikkara, Trichur- 680656 pp 91

Others /Abstracts

1. **Nagrare V. S.**, Deshmukh A. J., Naik C. B., Kranthi S., Tayade A. S. 2011. Cotton mealybugs management Part 1, Sakal Agro One 27.10.2011 (Marathi) (Edition of Khandesh & Marathwada region of Maharashtra)
2. **Nagrare V. S.**, Deshmukh A. J., Naik C. B., Kranthi S., Tayade A. S. 2011. Cotton mealybugs management Part 2, Sakal Agro One 4.11.2011 (Marathi) (Edition of Khandesh & Marathwada region of Maharashtra)
3. **Nagrare V. S.**, Kranthi S., Kranthi K. R. (2010). IPM in Bt Cotton. In Compendium of lectures. National model training on Integrated cotton Based farming systems, 25th Oct to 1st November 2010, CICR, Nagpur
4. **Nagrare, V. S.** Insect pest of orchids. 18th World Orchid Conference to be held at Dijon, France during 11-14 March 2005
5. **Nagrare, V. S.** Insect pollination of orchids. *Sci.Cult.* **69**(1-2): 77-79, 2003.
6. **Nagrare, V. S.** Needs of Orchid industry in India. *Souvenir*. National Symposium on Recent advances in Indian floriculture, 12-14 November 2003, Kerala Agricultural University, Vellanikkara, Triture- 680656: 36-38
7. Das, S. P.; D. Barman, V. Nagaraju, Rampal, T. K. Bag, **V. S. Nagrare**, S. Chakrabarti, P. C. Bhutia, and R. C. Upadhyaya. Evaluation of Sikkim Himalayan Orchids. Abstract of lectures and posters. 17th World Orchid Conference and show. Shah Alam, Malaysia, 24th April -2nd May, 2002. pp 17.