



Name: Dr V. Chinna Babu Naik

Designation: Senior Scientist (Agricultural Entomology)

Email: chinnaenton@gmail.com

Qualification: Ph.D (Agricultural Entomology)

Year of Experience: 13 years Address:

Office: ICAR- Indian Institute of Rice Research, RAJENDRA Nagar, Hyderabad, 500030

Office Tel. No.: +91-40-24591258 EXTN: 238

Office Fax No.: +91-40-24591217

ACADEMIC QUALIFICATION

- ❖ Ph D in Agriculture Entomology, Acharya NG Ranga Agricultural University, Rajendra Nagar, Hyderabad, Andhra Pradesh, India.
- ❖ M.Sc. in Agriculture Entomology, Acharya NG Ranga Agricultural University, Rajendra Nagar, Hyderabad, Andhra Pradesh, India.
- ❖ B. Sc in Agriculture. Acharya NG Ranga Agricultural University, Rajendra Nagar, Hyderabad, Andhra Pradesh, India.
- ❖ **Employment Record:**
- ❖ March 16th 2023, Senior Scientist (PB-4) (Agricultural Entomology), ICAR- Indian Institute of Rice Research, till the date. Hyderabad, India
- ❖ November, 2021, Senior Scientist (PB-4) (Agricultural Entomology), ICAR-Central Institute for Cotton Research, Nagpur, till the date. Maharashtra, India
- ❖ November, 2018, Senior Scientist (PB-3) (Agricultural Entomology), ICAR-Central Institute for Cotton Research, Nagpur, Maharashtra, India
- ❖ November, 2013, Scientist Senior scale, (Agricultural Entomology), ICAR-Central Institute for Cotton Research, Nagpur, Maharashtra, India
- ❖ March, 2010–Present, Scientist (Agricultural Entomology), ICAR-Central Institute for Cotton Research, Nagpur, Maharashtra, India
- ❖ November, 2009–. Scientist (Agricultural Entomology), ICAR-NAARM Hyderabad, India.

TRAINING ATTENDED:

- ❖ Undergone 21 days Training Programme on Fundamentals of Plant Health Management for Plant Health Doctors organized by NIPHM, Hyderabad from 13, February, 2018 -3rd March 2018.
- ❖ Undergone 10 days Training Programme on Detection and Measurement of Insecticides Aspects in Insect organized by ICAR-NBAIR, Bangalore from 2nd-11th September 2013.
- ❖ Undergone 5 days Training Programme on “Scientific Report Writing and Presentation” organized by ICAR-NAARM Hyderabad from July 30 to 3rd August. 2013.
- ❖ Undergone 21 days training on “Molecular characterization of GMO’s and purity is testing” organized by NSRTC & ICAR-CICR at Nagpur, Maharashtra, India 2011.
- ❖ Undergone 4 months trainings on 88th Foundation course for Agricultural Research Service at ICAR-NAARM, Hyderabad from 4th November 2009 to 3rd March 2010.

Current Research Area:

- ❖ Formulation of sustainable strategies on the cotton pest management.
- ❖ Resistance and resurgence monitoring in insect-pests against Cry toxins and insecticides on Pink Bollworm and other Bollworms on Cotton.
- ❖ Molecular entomology
- ❖ Biological control

Awards and Recognitions on Cotton Research (08):

S. N.	Year	Name of the Award / Recognition	Awarding Institution	Remarks
1	2023	Best Scientist for the year 2022-2023	Awarded by Director ICAR-CICR, Nagpur	Research Contribution
2	2022	Young Scientist Award	Dr. Ambedkar College, Deekshabhoomi, Nagpur, Seth Kesarimal Porwal College of Arts, Science and Commerce, Kamptee, Priyadarshini J. L. College of Engineering, Nandanwan, Nagpur, P. G. T. D. of Mole. Bio & Gen. Engg., RTMNU Nagpur	Research Contribution
3	2021	Awarded AZRA, Avvaru Seethamma Memorial Award	Applied Zoologists Research Association (AZRA),	Research Contribution

			Cuttack, India	
4	2020	Awarded Prof. Kameswara Rao Young Scientist Award	Applied Zoologists Research Association (AZRA), Cuttack, India	Research Contribution
5	2020	Dr B Vasanthraj David Foundation Scientist Award-2020	Dr B Vasanthraj David Foundation, Chennai, 600125, Tamil Nadu,India	Research contribution to Agricultural entomology particularly on Pink bollworm Management in Cotton
6	2019	SADHNA ACHIEVER AWARD 2019	Society for Advancement of Human and Nature (SADHNA) Dr YS Parmar University of Horticulture & Forestry PO Nauri, Solan 173230, Himachal Pradesh, India	Recognition to the outstanding contribution in field of Agricultural Entomology
7	2018	Vasandrao Naik Smruti Pratishthan Award for outstanding Research Contribution on Pink bollworm in India, 2018.	Vasandrao Naik Smruti Pratishthan, Pusad, Yavatmal, Maharashtra, India	Research Contribution on Pink bollworm Management in India.
8	2018	Vasandrao Naik Agriculture Research award	Vasandrao Naik human development Research and Training Institute (VANHATRI), Nagpur	Research Contribution on pink bollworm management
9	2015	Best poster presentation award on Impact of new molecules on bollworm management in cotton under high density	CRDA, Cotton Research and Development Association, CCS Haryana Agricultural	Research Contribution

		planting system in National Symposium on Future Technologies: Indian Cotton in the Next Decade during 17-19 th December 2015 at Guntur Andhra Pradesh.	University, Hisar, Haryana, India	
10	2012	Best poster presentation award on “Changing Scenario of Pink Bollworm, <i>Pectinophora gossypiella</i> (Saunders) Incidence on Cotton in India” in the International symposium on “Global cotton Production Technologies Vis-a vis Climate Changes at CCS, Haryana during October 10-12, 2012	CRDA, Cotton Research and Development Association, CCS Haryana Agricultural University, Hisar, Haryana, India	Research Contribution

Salient Research Achievements/ Technologies Developed:

- ❖ Monophasic diet of cotton seed flour was developed for rearing of Pink bollworm. The larvae were reared from neonates till pupation on a single diet in the lab.
- ❖ Monitoring for the first time temporal and spatial variation in Pink bollworm incidence on *Bt* and Non *Bt* cotton in India from 2010-2021 and reported level of infestation of Pink bollworm for timely IPM management.
- ❖ Resistance monitoring of Cry1AC, Cry2Ab against different geographic population of Pink bollworm in India from 2010-2021.
- ❖ Reported first time in India Endoparasitoid of *Bracon lefroyi* (Dudgeon and Gough) of Pink bollworm causing natural mortality in field population of Central India.
- ❖ Established lab resistant strain of pink bollworm for use in genetic Studies at ICAR-CICR, Nagpur
- ❖ Established laboratory susceptible strain of Pink bollworm
- ❖ Developed data base on pink bollworm resistance monitoring with different Cry toxins in India.
- ❖ Developed protocol for field sampling of Pink bollworm from 100 DAS onwards for easy monitoring under field condition.
- ❖ Standardized the boll Bioassay protocol for pink bollworm in field condition
- ❖ Evaluated biological control of Pink bollworm egg parasitoid *Trichogramma bactrae* and *Trichogramma brasiliensis* against pink bollworm Control.

- ❖ Evaluated different newer insecticides against pink bollworm management on cotton. The best molecule against pink bollworm was recommended for IPM programme
- ❖ Evaluated different lures and Trap against Pink bollworm and recommended best lures and Trap for Pink bollworm monitoring in India.
- ❖ Standardized and shorted list *G.hirsutum* and *G.arboreum* genotypes under HDPS for insect pest susceptibility
- ❖ Standardized protocols for Pink bollworm resistance monitoring under laboratory.
- ❖ First time in Central India reported Pink bollworm incidence on extended Bt cotton being cultivated in Dhule, Jalgaon and Nandurbar districts of Maharashtra. The percent survival of pink bollworm in Nandurbar on BG (26.14 %) and non Bt (0.45%) in Dhule on BG (19.80%) and non Bt (6.92%) and in Jalgaon on BG (18.18 %) and non Bt (25.89 %) was observed during 2011-2012 in Khadesh region of Maharashtra.
- ❖ Developed sucking pest's management protocol under HDPS system in India.
- ❖ Pink bollworm infestation was monitored in Bharuch, Vadodara, Anand, Bhavnagar, Amreli, Junagadh, Rajkot, Surendranagar and Ahmadabad districts of Gujarat. The pink bollworm infestation was observed in flowers of different Bollgard-II hybrids ranging upto 80.00% at (60 to DAS crops).
- ❖ The population collated on *Bt* cotton were shown less susceptibility to the *CryI Ac* and *Cry2Ab* as compared to susceptible population.
- ❖ Evaluated different events and hybrids against pink bollworm reported tolerance levels.
- ❖ Technical information provided for the farmers through CICR-weekly Advisory, E-Kapas, farmers trainings, popular articles and workshop for better management of pink bollworm on Bt Cotton.
- ❖ Reported Pink bollworm was more in irrigated extend Crop than rainfed Cotton for Pink bollworm.
- ❖ Suggested avoidance of extended crop beyond 150 days to minimize the damage of pink bollworm on Bt Cotton.
- ❖ Associated with preparation of "IRM strategies for Management of pink bollworm in Cotton".
- ❖ Standardization of agro-techniques for high density planting and surgical cotton production.
- ❖ Identified the edited unique sequences were deposited in GenBank using BankIt (Accession numbers: MK652512-MK652704, MK775533-MK775550).
- ❖ Alignments of all 214 COI sequences revealed that 27 haplotypes are present in overall populations including 11 in north, 14 in central and 6 in south region
- ❖ Identified that the eco-friendly Bio-control agents against pink bollworm Management in Cotton
- ❖ Identified the effective Insecticides for Management of pink bollworm in cotton
- ❖ Conducted National training programme on Pink bollworm Management during third week of April, 2017.

- ❖ Conducted 21 days ICAR-Winter, School training programme on Insecticides resistance monitoring on Cotton from 18/1/2018-7/02/2018 and also organized 28 different training programmers
- ❖ Handled 25 different DST, GEAC, ICAR and Mahyco projects as a Principal Instigator and Co- Principal Instigator
- ❖ Published 40 research paper in different peer reviewed journal in Notational and International journals, 41 technical bulletin, 15 book chapters, 26 Conferences papers and 20 popular articles was published
- ❖ Guided two PhD and Four MSc Agricultural Entomology students in varies agricultural university

RESEARCH PROJECTS HANDLED: 23

SN	Project title	Funding Agency	Period	Role
1	Evaluation of Mating disruption technology of pheromone-based formulations of (SPLAT) against pink bollworm on cotton in India”	ATGC	2022-2023	PI
2	Multi-pronged bio-rational management of Pink bollworm (PBW), Pectinophora gossypiella (Saunders) on cotton in India	Institute	2021-2024	PI
3	ICAR-Network Project on Precision Agriculture (NEPA)	ICAR	2022-2027	Co-PI
4	Evaluation of Nectariless Rasi Cotton hybrids against pink bollworm and American bollworms on cotton	Rasi seed	2021-2022	PI
5	Mahyco-II: Monitoring Changes in baseline Susceptibility to Cry2 Ab toxins in the cotton bollworm, H.armigera, Pink bollworm, Pectinophora gossypiella and S.litura.	Mahyco	2021-2022	PI
6	Mahyco-I: Monitoring Changes in baseline Susceptibility to Cry2 Ab toxins in the cotton bollworm, H.armigera, Pink bollworm, Pectinophora gossypiella and S.litura.	Mahyco	2021-2022	Co-PI
7	DST EMR: Pink bollworm, Pectinophora gossypiella (Saunders): Resistance Monitoring, Fitness Costs, Inheritance of Resistance to Cry toxins expressed in Bt cotton	DST	2017-2020	PI
8	DST EEQ: Genetic diversity in geographical Population of Pink bollworm, Pectinophora	DST	2017-2021	PI

	gossypiella (Saunders) in India			
9	Insecticides Resistance Management (IRM): Dissemination of Pink Bollworm management strategies	NFSM	2018-2020	Co-PI
10	Elucidating eco-toxicity and resistance development in sucking pests against newer insecticides used in cotton	Institute	2017-2020	Co-PI
11	Diversity analysis of Whitefly (Bemisia tabaci), predators and parasitoids	Institute	2016-2020	Co-PI
12	Investigations into exacerbation of pest status of cotton pink bollworm Pectinophora gossypiella (Saunders) in the context of climate change through development of phenology model	Institute	2017-2020	Co-PI
13	Development of Trash handling System for Control of Pink bollworm in Cotton Ginneries	CIRCOT	2019-2020	Co-PI
14	Bt resistance in Pink bollworm Pectinophoragossypiella (Saunders) -monitoring mechanism and management	Institute	2010-2012	PI
15	Development of high-density planting systems (HDPS) for maximizing productivity of rainfed cotton	Institute	2010-2012	Co-PI
16	Collection Conservation Evaluation, documentation and maintenance of germplasm of cultivated species of Gossypium	Institute	2010-2011	Co-PI
17	Evaluation of Potassium silicate and Bio-inoculants against bacterial blight in cotton under natural and artificial inoculation conditions	Institute	2012-2014	Co-PI
18	Evaluation of Available and New Seed Treatment Methods for Management of Insect Pests and Diseases in Cotton Seedlings	Institute	2012-2014	Co-PI
19	Development of nanoparticles-based biocontrol formulation for the management of major cotton pests and diseases	Institute	2011-2012	Co-PI
20	Monitoring for changes in bollworm susceptibility to toxins deployed in pest resistant transgenic cotton on Pink bollworm, American bollworm	GEAC	2011-2013	Co-PI
21	TMC: 3.1: Emerging and key insect pests on Bt	TMC	2011-2013	Co-PI

	cotton-their taxonomy, genetic diversity and control			
22	TMC: 3.2: Development and Validation of IPM/ IRM Strategies for Bt Cotton Under Different Ecosystems	TMC	2011-2013	Co-PI
23	TMC: 1.5: Simulation Models and Sensor Based Gadgets for Crop Protection and Production	TMC	2013-2017	Co-PI
24	TMC: 1.4: Evaluation of genotypes and Standardization of agro-techniques for high density planting and surgical cotton production	TMC	2013-2017	Co-PI
25	Monitoring Changes in baseline Susceptibility to Cry toxins in the cotton bollworm, <i>H.armigera</i> , Pink bollworm, <i>Pectinophora gossypiella</i> and <i>S.litura</i> .	Mahyco-I, II	2014-2017	Co-PI

PUBLICATIONS

Research papers and articles:

Publications 40 NASS rated research papers: 52

1. List of Research Papers as First Author: (27 NAAS rated research papers)

Sr. No.	Details of publication in *Harvard Style	NAA S Journal (Rating)	NAAS Journal ID
1.	V.Chinna Babu Naik , Mohan K. Narode, SujitKumbhare, Dilip ShriramGhongade,T.N Madhu, JSV. Murthy, Nandini Gokte-Narkhedkar and YG Prasad (2023). Efficacy of novel insecticides and their combinations against Pink bollworm, <i>Pectinophora gossypiella</i> (Saunders) (Lepidoptera:Gelechiidae) in Cotton. International Journal of Tropical Insect Sciences. https://doi.org/10.1007/s42690-022-00939-8 (NASS Rating: 6.77).	(6.77)	I355

2.	V. Chinna Babu Naik , Tejswini D. Saonerkar, Chandrashekar N, Pratik P. Pusadkar , Sandhya Kranthi , Pooja Verma , Sujit H. Kumbhare , Nandini Gokte Narkhedkar and Y. G Prasad (2022) Biochemical characterization of alkaline phosphatase in midgut of Cry2Ab dosed, pink bollworm, <i>Pectinophora gossypiella</i> (Saunders). Journal of Environmental Biology. 43(4) (2022) (NASS Rating: 7.5).	(7.5)	J195
3.	V. Chinna Babu Naik , Gillesugur Sham Supreeth, N. Gokte-Narkhedkar and Y.G. Prasad (2022). In vitro rearing protocol for pink bollworm, <i>Pectinophora gossypiella</i> (Saunders) (Gelechiidae: Lepidoptera) on semi-synthetic diet. <i>Animal Biology</i> (72) (2022) 217–225	(7.48)	A171
4.	V.Chinna Babu Naik , Subbireddy KB, Nagrare, VS and MV Venugopalan (2021). Insecticides Spray Regimes to Manage <i>Helicoverpa armigera</i> (Hubner) and their Impact on Natural Enemies in cotton under High density Planting system. <i>Indian Journal of Entomology</i> . Ref.No. e21157.	(5.08)	IO59
5. 1	V. Chinna Babu Naik , Subbireddy, K. B., Kranthi, S., Nagrare, V. S., Kumbhare, S., Gokte-Narkhedkar, N. & Waghmare, V. N (2021). Pink bollworm, <i>Pectinophora gossypiella</i> (Saunders) (Lepidoptera: Gelechiidae) survival on transgenic cotton in India. (NASS Rating- 6.38). <i>Egyptian Journal of Biological Pest Control</i> , 30 (1), 1-7	(8.0)	E032
6. 2	Chinna Babu Naik, V. , Pusadkar, P.P., Waghmare, S.T., Raghavendra, K.P., Kranthi, S., Kumbhare, S., Nagrare, V.S., Kumar, R., Prabhulinga, T., Gokte-Narkhedkar, N. and Waghmare, V.N., 2020. Evidence for population expansion of cotton pink bollworm <i>Pectinophora gossypiella</i> (Saunders)(Lepidoptera: Gelechiidae) in india. <i>Scientific reports</i> , 10(1), pp.1-11. https://doi.org/10.1038/s41598-020-61389-1	(10.01)	S027
7. 3	V.Chinna Babu Naik , V.S. Nagrare, K. B, Subbireddy, Sujit Kumbhare, Pratick Wawdhane and T.Prabhulinga (2019). Management of Cotton Pink bollworm <i>Pectinophora gossypiella</i> (Saunders) with <i>Trichogramma bactrae</i> and <i>Trichogramma brasiliensis</i> . <i>Indian Journal of Entomology</i> , 81(4), pp.744-748. 10.5958/0974-8172.2019.00178.0	(5.89)	I054

8. 4	Chinna Babu Naik, V., Kumbhare, S., Kranthi, S., Satija, U. and Kranthi, K.R., 2018. Field-evolved resistance of pink bollworm, <i>Pectinophora gossypiella</i> (Saunders) (Lepidoptera: Gelechiidae), to transgenic <i>Bacillus thuringiensis</i> (Bt) cotton expressing crystal 1Ac (Cry1Ac) and Cry2Ab in India. <i>Pest management science</i> , 74(11), pp.2544-2554. https://doi.org/10.1002/ps.5038	(9.26)	P034
9. 5	Chinna Babu Naik, V., Kranthi, S., Gharade, S., Kumbhare, S., Nagrare, V.S. and Singh, L., 2018. Endoparasitoid: <i>Bracon Lefroyi</i> (Dudgeon and Gough) of pink bollworm <i>Pectinophora gossypiella</i> (Saunders) on Cotton. <i>Indian Journal of Entomology</i> , 80(2), pp.361-366. 10.5958/0974-8172.2018.00074.3	(5.89)	I054
10. 6	Chinna Babu Naik, V., harish Giri, N., Kumbare, S., Kranthi, S. and Kumar, N., 2019. New Report of <i>Oxycetonia versicolor</i> Fabricius, as a Pest on Cotton from Central India. <i>National Academy Science Letters</i> , pp.1-4. https://doi.org/10.1007/s40009-018-0768-1	(6.35)	N011
11. 7	Chinna Babu Naik, V., Dabhade V. P. L., Kranthi S., Venugopalan M. V. and Subbireddy K. B. (2018). Intensity of Insect Pests in <i>Gossypium hirsutum</i> Cultivars under High Density Planting System (HDPS) in India. <i>International Journal of Current Microbiology and Applied Sciences</i> , 7(12), 125-134. https://doi.org/10.20546/ijcmas.2018.712.016	(5.38)	I199
12. 8	Chinna Babu Naik, V., NVVSD, P., Vani Sree, K., Upendhar, S. and Subbireddy, K.B., 2017. Frequency of sucking pest complex on different transgenic events of Cotton hybrids. <i>Journal of Entomology and Zoology Studies</i> . https://www.researchgate.net/publication/324888696	(5.53)	J187
13. 9	Chinna Babu Naik, V., Kranthi, S. and Rahul, V., 2017. Impact of newer pesticides and botanicals on Sucking pest management in cotton under high density planting system (HDPS) in India. <i>Journal of Entomology and Zoology Studies</i> , 5(6), pp.1083-1087. https://www.researchgate.net/profile/V_Naik2/publication/334193113	(5.53)	J187
14. 1 0	Chinna Babu Naik, V., Prasad, N.V.V.S.D. and Pusadkar, P., 2016. Frequency of pink bollworm <i>Pectinophora gossypiella</i> (Saunders) on different events of Bt cotton hybrids. <i>Journal of Cotton Research and Development</i> , 30(2), pp.218-223.	(4.69)	J163

	https://www.researchgate.net/publication/305754307		
15.1	Chinna Babu Naik, V., Subbanna, A.R.N.S., Suneetha, P., 1 Krishna, M.S.R., Sreelatha, D., Raju, M.S., Reddy, M.D., . Reddy, D.V.V., Choudhary, G., Ranjitkumar, N. and Surapaneni, M., 2015. Impact of transgenic events on <i>Helicoverpa armigera</i> (Hubner) and <i>Spodoptera litura</i> (Fabricius) on cotton in India. <i>Research Journal of Biotechnology</i> , 10, pp.91-99. https://www.researchgate.net/publication/283019656	(6.24)	R032
16.1	Chinna Babu Naik, V., Ashwini A., Mehar, J.G., Kumbhare 2 S., Kranthi S. and Venugopalan . M.V., 2015. Impact of new . molecules on bollworm management in cotton under high density planting system. <i>Journal of Cotton Research and Development</i> , 1 (79)	(4.69)	J163
17.1	Chinna Babu Naik, V., S. Kranthi, Y.V. Nandeswar, V. S. 3 Nagrare and K.R. Kranthi. Spinosad Causes Resurgence of . Cotton Mealy Bug <i>Phenacoccus Solenopsis</i> Tinsley <i>Cotton Research Journal</i> 6 125-127 2015. https://www.researchgate.net/publication/334193923	(2.41)	C138
18.1	Chinna Babu Naik, V., Prasad, N.V.V.S.D. and 4 Ramachandra R., 2014. Effect of Bt cotton on Survival and . Development of Pink Bollworm, <i>Pectinophora gossypiella</i> (Saunders). <i>Journal of Cotton Research and Development (CRDA)</i> , 28, pp. 92-100. https://www.researchgate.net/publication/334194264	(4.69)	J163
19.1	Chinna Babu Naik, V., Prasad, N.V.V.S.D. and Ramach, 5 G., 2013. Effect of Bt cotton on survival and development . of tobacco caterpillar, <i>Spodoptera litura</i> (Fabricius) on different events of Bt hybrids. <i>African Journal of Agricultural Research</i> , 8(44), pp.5538-5549. https://doi.org/10.5897/AJAR2012.6663	(6.00)	A074
20.1	Chinna Babu Naik, V., Dhara Jothiz, P.D. and Kranthi, S., 6 2014. Pink Boll worm <i>Pectinophora gossypiella</i> (Saunders) . Infestation on Bt and Non Bt Hybrids in India in 2011- 2012. <i>Cotton Research Journal</i> , 6, pp.37-40. http://cicr.org.in/isci/6-1/Paper_7.pdf	(2.41)	C138

21.17	Chinna Babu Naik, V., Prasad, N.V.V.S.D. and Rao, G.R., 2013. Incidence of pink bollworm on Bt and non Bt hybrids. <i>Annals of Plant Protection Sciences</i> , 21(2), pp.416-417. https://www.researchgate.net/publication/334194113	(4.82)	A196
22.18	Chinna Babu Naik, V., Prasad, N.V.V.S.D., Rao, G.R., Raghavaiah, G. and Kranthi, S., 2013. Survival and Development of American Bollworm, <i>Helicoverpa armigera</i> on Bt Cotton Hybrids of Different Bt Events. <i>Indian Journal of Plant Protection</i> , 41(1), pp.16-24. https://www.researchgate.net/publication/334194288	(5.07)	I084
23.19	Chinna Babu Naik, V., Prasad, N.V.V.S. D., Rishi K., Patil S S., Desai H. R., Hole U. and Kranthi S., 2012. Changing Scenario of Pink Bollworm, <i>Pectinophora gossypiella</i> (Saunders) Incidence on Cotton in India. <i>Journal of Cotton Research and Development (CRDA)</i> 2 (82)	(4.69)	I084
24.20	Chinna Babu Naik, V., Arjuna Rao P., Krishnayya P.V. and Srinivasa Rao V., 2009. Seasonal Incidence and Management of <i>Bemisia tabaci</i> Gennadius and <i>Amrasca biguttula biguttula</i> Ishida of Brinjal. <i>Annals of Plant Protection Sciences</i> (17) pp. 9-13. http://www.indianjournals.com/ijor.aspx?target=ijor:apps&volume=17&issue=1&article=003	(4.82)	A196
25.21	Chinna Babu Naik, V., Rao, P.A., Krishnayya, P.V. and Rao, V.S., 2008. Seasonal incidence and management of spotted leaf beetle, <i>Henosepilachna vigintioctopunctata</i> (F.) in brinjal. <i>Journal of Applied Zoological Researches</i> , 19(1), pp.1-4. https://www.cabdirect.org/cabdirect/abstract/20093138800	(4.22)	J078
26.22	Chinna Babu Naik, V., Arjuna Rao P., Krishnayya P.V. and Srinivasa Rao V., 2008. Efficacy of certain new Insecticides against fruit infestation by <i>Leucinodes orbonalis</i> Guen on Brinjal. <i>The Andhra Agricultural Research Journal</i> (55) pp. 115-118	(2.00)	T013
27.23	Chinna Babu Naik, V., Rao, P., Krishnayya, P.V. and Rao, V.S., 2008. Seasonal incidence and management of <i>Leucinodes orbonalis</i> Guence on brinjal. <i>Annals of Plant Protection Sciences</i> , 16(2), pp.329-332. https://www.researchgate.net/publication/334193891	(4.22)	A196

List of Research Papers as Co-Author: (25 NASS rated research papers)

28	Appalaraju AA, V. Chinna Babu Naik ,GMV Prasad Rao, Vinod S. Kukanur, <u>Ch. Chiranjivi</u> ,P .Anil Kumar and <u>V. Sreenivasa Rao</u> (2023). Frequency of Cry1Ac and Cry2Ab resistance alleles in pink bollworm, <i>Pectinophora gossypiella</i> Saunders from Andhra Pradesh, India. <u>Phytoparasitica</u> , DOIhttps://doi.org/10.1007/s12600-023-01066-x	(7.44)	P084
29	Fand, B. B., Nagrare, V. S., Bal, S. K., V. Chinna Babu Naik , Naikwadi, B. V., Mahule, D. J., ... & Waghmare, V. N (2021). Degree day-based model predicts pink bollworm phenology across geographical locations of subtropics and semi-arid tropics of India. (NASS Rating- 10.01). Scientific Reports,11 (1), 1-18	(10.01)	S027
30	Madhu TN, Rishi Kumar, V. Chinna Babu Naik , Prabhulinga, T., Savitha Santosh,Chandrashekar, N., & Verma, P. (2022). Attraction of leaf hopper, <i>Amrasca biguttulla biguttulla</i> , and whitefly, <i>Bemisia tabaci</i> , toward natural essential oils in Cotton. Animal Biolog doi: https://doi.org/10.1163/15707563-bja10095 (NAAS: 7.20)	(7.20)	A171
31	Lalsingh Rathod, SK Bhalkare,PK Rathod, AK Sadavarte, Ak Kolhe, BB Undirwade, SS Mane, Shoba and V. Chinna Babu Naik (2022). Genetic Diversity in the vidharbha regions pink bollworm, <i>Pectinophora gossypiella</i> (Saunders) Adults of Population. Biological Forum- An International journal 14(4):1137-1140 (NASS Rating: 5.11).	(5.11)	
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- ❖ **Chinna Babu Naik V.**, and Sujit Khubhare. 2018. Botanical for Cotton pests. Cotton Production and Management Technology. ICAR-Central Institute for cotton Research, post bag no.2, Shankar Nagar, Nagpur-440010. Pp no: 55
- ❖ **Chinna Babu Naik V.** and Upendhar S. 2018. Bt prathilo Gulabhi rangi Pirugu Yajamaniyam Yavasayam, June, 2018. (Telugu)
- ❖ **Chinna Babu Naik V.**, Sujit and Rokde S. 2016. Botanical pesticides for Control of Insect Pests; Agrowon, 24th August, 2016.
- ❖ **Chinna Babu Naik V.** and Samapath kuamr A. 2014. Kapas ke naashikton ka prabaavi prabandhan: A technical bulletin.
- ❖ Mukherjee P. K., Narkhedkar N. G., Tayade A. S., **Chinna Babu Naik V.**, Mukherjee A.K., Patil B. R., Ingle, Kranthi S. and Kranthi K. R., Stunting and yellowing of Bt cotton plants in farmer's fields in Buldana district of Maharashtra- causes and remedies. In Sakalagro.
- ❖ Annie Sheeba J., **Chinna Babu Naik V.**, Blaise D., Sandhya Kranthi and Tayde A. 2011. Amelioration of leaf reddening. In Sakalagro, Thursday, 13th October.
- ❖ Annie Sheeba J., **Chinna Babu Naik V.**, Blaise D., Sandhya Kranthi and Tayde A. 2011. How to control leaf rollers? In Sakalagro, Thursday, 13th October.

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- ❖ Nagrare V.S, **Chinna Babu Naik V**, Fand B. B., Narkhedkar Nandini Gokte 2018. Integrated Pink bollworm management (Marathi). ICAR-CICR, Nagpur
- ❖ **Chinna Babu Naik V and S Kranthi** (2017). Integrated Pink bollworm management (Englisg). ICAR-CICR, Nagpur

Training Manual:

- ❖ Chinna Babu Naik V., Kranthi Sandhya Nagrare V. S., Shah Vivek, Fand B. B. Narkhedkar Nandini 2018. 1) Lecture Notes and 2) Practical manual for ICAR sponsored Winter School on "Insect Resistance to Bt Toxins and Insecticides in Cotton" from January 18 to February 07, 2018 at ICAR-CICR, Nagpur

- ❖ Chinna Babu Naik V., Kranthi Sandhya Nagrare V. S., and Kumbhare, S (2017) A Manual on Pink bollworm resistance monitoring and Management, ICAR-CICR, Nagpur, pp-28

Mobile App:

CICR COTTON Mobile App, 2020

Training Conducted: 28

- ❖ **Acted as a Course Director for 21 days** ICAR Sponsored Winter School: Insect Resistance to *Bt* Toxins and Insecticides in Cotton from 18th January, 2018 to 7th February, 2018 at ICAR-CICR, Nagpur.
- ❖ **Acted as a Programme Coordinator for 3 days** training on Resistance Monitoring of Pink bollworm on Cotton from 20-22, April, 2017 at ICAR-CICR, Nagpur.
- ❖ One day farmer's awareness camp on management of insect pests of cotton was organized under "Insecticide Resistance Monitoring– Dissemination of Pink Bollworm Management Strategies (IRM-PBW) at Thorana village of Tahshil Bhadravati, district Chandrapur on dated 05 August 2021 a total of 35 farmers were participated.
- ❖ One day farmers training on Management pink bollworm and Boll rot in cotton on 5/8/2021 at Wani, Yavtmal. A total of 80 cotton farmers was attended the training.
- ❖ One day "Tribal farmer's workshop program cum input distribution" under TSP scheme at Boath Tehsil, Adilabad District, Telangana on 8-7-2021
- ❖ Distribution of Vegetable seed kit programme at Arvi, Samudrapur Dist. Wardha, Maharashtra on 1.6.2021 under TSP project a total of 25 farmers were attended the programme
- ❖ One day Farmers Training on cotton and summer mung cultivation programme was organized at KVK, Gadchiroli, Maharashtra on 10.6.2021. A total of 289 tribal farmers were attended the training.
- ❖ Distribution of Paddy seeds to tribal farmers at Gadchiroli, Maharashtra on 10.6.2021 under TSP project a total of 100 farmers were attended the programme.
- ❖ Farmers training and paddy & vegetable seed distribution programme at At. Khapa (Khurd) Ta.Tumsar, Bhandra disrcit of Maharashtra on 17.6.2021. a total of 100 farmers were participated.
- ❖ One day Field Demonstrations in Tribal farmers' fields and vegetable seed distribution programme was organized at At.Ghatpendhari,Ta. Parshevani, Nagpur on 18.6.2021.
- ❖ Organized one day training on Awareness camp program on Management in Cotton at At; Mangaon Tah; Bhadravati, District; Chandrapur 2.8.2019. Chandrapur under IRM-PBW Project.
- ❖ Organized one day training on Integrated Pest Management in Cotton (On field Training on Installation of Pheromone traps and Trichocards for Management of Pink bollworm)

at At; Ralegaon , Tah. Bhadrawati, District; Chandrapur 18.9.2020. Chandrapur under IRM-PBW Project.

- ❖ Organized one day training on Monitoring and Integrated Pest Management in Cotton (On field Training on Installation of Pheromone traps, ETL count for pests, observations of Moth catches and disease identification) at At; Warora , Tah; Warora, District. - Chandrapur 7.10.2019 Chandrapur under IRM-PBW Project
- ❖ Organized one day training on Integrated Pest Management in Cotton (On field Training on Management of Pink bollworm) at At Ralegaon , Tah.Bhadrawati District : Chandrapur 23.12.2019 Chandrapur under IRM-PBW Project
- ❖ Organized one day training on Farmers Mela at Katariya Sabhagruh, Wani Raod, Warora Tah.Warora, District: Chandrapur 28.1.2020, a total of 1200 farmers were attained Chandrapur under IRM-PBW Project
- ❖ Conducted one day Farmers Mela and Ginners Training program were organized 04-02-2018 in Warora, Chandrapur under IRM-PBW Project
- ❖ Conducted one day Training on “Pink bollworm management training programme” on 15-09-2018 in Warora, Chandrapur under IRM-PBW Project
- ❖ Organized Awareness Camp on Management of Pink bollworm in Cotton on 25-08-2018 in Warora, Chandrapur under IRM-PBW Project
- ❖ Organized one day Training for Tribal Farmers on Cotton Production Technologies at Gadchiroli 05.10.2018
- ❖ Organized one day Training for Tribal Farmers on Cotton Production Technologies at Nandurbar 5.10.02018
- ❖ Farmer traing on Pink bollworm Management at Girad, Wardha, Maharashtra on 31.7.2018
- ❖ Under TSP and NSP Organized one day Farmers Training Programme for Tribals in Narhar villages of Parseoni Nagpur district on 13.3.2018
- ❖ Under TSP and NSP Organized one day Farmers Training Programme for Tribals in Ladai, Nimboli, Lohgad and Kedar (4 villages of Kalmeshwar cluster in Nagpur district of Mahasrtara from 14.12.2016 to 22.12.2016
- ❖ Under TSP and NSP Organized one day Farmers Training Programme for Tribals in Bothli (Ashram) villages of Umred Tashil of Nagpur district of Maharashtra 08.3.2018
- ❖ Conducted one day work shop on IPM in Pink bollworm Management in Cotton at Jambha khurd, Tahsil Murtijapur, Akola, Maharshtia on 16/1/2018
- ❖ Coordinated Farmer technology School held during 9th to 13th Krishi Vasant, 2014.
- ❖ Conducted one day work shop on IPM in Pink bollworm Management in Cotton at Girad, Cluter of Wardha Maharshtia on 28/12/2017
- ❖ Conducted one day Training on “Farmer’s field training” was conducted on 2-11-2018 in Warora, Chandrapur under IRM-PBW Project.

Talks delivered: 61

- ❖ Delivered lecture on Insect pest Management of Cotton during one day farmer’s awareness camp on management of insect pests of cotton was organized under

“Insecticide Resistance Monitoring– Dissemination of Pink Bollworm Management Strategies (IRM-PBW) at Thorana village of Tahshil Bhadravati, district Chandrapur on dated 05 August 2021 a total of 35 farmers were participated.

- ❖ Delivered lecture on Management of Pink bollworm on cotton during One day farmers training on Management pink bollworm and Boll rot in cotton on 5/8/2021 at Wani, Yavtmal. A total of 80 cotton farmers was attended the training.
- ❖ Delivered lecture on IPM in Cotton during one day “Tribal farmer’s workshop program cum input distribution” under TSP scheme at Boath Tehsil, Adilabad District, Telangana on 8-7-2021
- ❖ Delivered lecture on Pink bollworm on cotton during the seed distribution of Vegetable seed kit programme at Arvi, Samudrapur Dist. Wardha, Maharashtra on 1.6.2021 under TSP project a total of 25 farmers were attended the programme
- ❖ Delivered lecture on Insect pest Management of Cotton during one day Farmers Training on cotton and summer mung cultivation programme was organized at KVK, Gadchiroli, Maharashtra on 10.6.2021. A total of 289 tribal farmers were attended the training.
- ❖ Delivered lecture on paddy IPM during distribution of Paddy seeds to tribal farmers at Gadchiroli, Maharashtra on 10.6.2021 under TSP project a total of 100 farmers were attended the programme.
- ❖ Delivered lecture on vegetables cultivation during Farmers training and paddy & vegetable seed distribution programme at At. Khapa (Khurd) Ta.Tumsar, Bhandra disrcit of Maharashtra on 17.6.2021. a total of 100 farmers were participated.
- ❖ Delivered lecture on Role of Biocontrol for pest management one day Field Demonstrations in Tribal farmers’ fields and vegetable seed distribution programme was organized at At.Ghatpendhari,Ta. Parshevani, Nagpur on 18.6.2021.
- ❖ Delivered lecture on Insect pest Management of Cotton during one day Awareness camp program on Management in Cotton at Mangaon Tah; Bhadravati, District; Chandrapur on 02.8.2019 under Insecticide Resistance Management (IRM): Dissemination of Pink bollworm management strategies a total of 50 farmers were participated during the training programme.
- ❖ Delivered lecture on during one day training on Integrated Pest Management in Cotton (On field Training on Installation of Pheromone traps and Trichocards for Management of Pink bollworm at Ralegaon Tah;Bhadravati, District;Chandrapur on 18.9.2019 under Insecticide Resistance Management (IRM): Dissemination of Pink bollworm management strategies a total of 50 farmers were participated during the training programme.
- ❖ Delivered lecture on Field diagnosis of Insect pests during one day training on Monitoring and Integrated Pest Management in Cotton (On field Training on Installation of Pheromone traps, ETL count for pests, observations of Moth catches and disease identification at Warora, District.-Chandrapur on 7.10.2019 under Insecticide Resistance Management (IRM): Dissemination of Pink bollworm management strategies a total of 100 farmers were participated during the training programme.

- ❖ Delivered lecture on Biological control of Pink bollworm on cotton during one day training on Integrated Pest Management in Cotton On field Training on Management of Pink bollworm at Ralegaon Tah.Bhadrawati District: Chandrapur on 23.12.2019 under Insecticide Resistance Management (IRM): Dissemination of Pink bollworm management strategies a total of 100 farmers were participated during the training programme.
- ❖ Delivered lecture on Pink bollworm Management in cotton during one day Farmer Mela at Warora, Tah.Warora District: Chandrapur on 28.1.2020 under Insecticide Resistance Management (IRM): Dissemination of Pink bollworm management strategies a total of 1200 farmers were participated during the training programme.
- ❖ Delivered lecture on IPM in cotton with special reference to pink bollworm management, in the training organized for Cotton farmers from Telanngana at GTC, Nagpur on 03.02.2020.
- ❖ Delivered lecture on Pink bollworm Management in cotton during one day Farmer Mela at Warora, Tah.Warora District: Chandrapur on 28.1.2020 under Insecticide Resistance Management (IRM): Dissemination of Pink bollworm management strategies a total of 1200 farmers were participated during the training programme.
- ❖ Delivered lecture on Status of Bt resistance in Pink bollworm in India at Farmers Mela Organized under IRM-PBW project at Bela Nagpur on 7/11/2019.
- ❖ Delivered lecture on Status of Bt resistance in Pink bollworm in cotton during one day Farmer Mela at Mozari, Tah.Tivsa District: Amravati on 24.09.2019 under Insecticide Resistance Management (IRM): Dissemination of Pink bollworm management strategies a total of 300 farmers were participated during the training programme.
- ❖ Delivered lecture on Pink bollworm Management on cotton during one day field day at UAS, Raichur, Karnataka on 3/12/2019 a total of 150 famers were attended the training under IRM-PBW project.
- ❖ Delivered lecture on Cotton bollworm in cotton and lab visit in the training on integrated cotton production technologies organized by KVK Nagpur on 12.7.2019
- ❖ Delivered lecture on Cotton bollworm in cotton and lab visit in the training on integrated cotton production technologies organized by KVK Nagpur on 17.7.2019
- ❖ Delivered lecture on Cotton bollworm in cotton and lab visit in the training on integrated cotton production technologies organized by KVK Nagpur on 27.7.2019
- ❖ Explained laboratory rearing techniques to Skill support staff of ICAR-CICR, Nagpur on 19.7.2019 during the training programme under HRD.
- ❖ Delivered talk on Pink bollworm Management on Cotton to Class 2 officers of agriculture department, 20 Feb 2020.
- ❖ Pink bollworm Management on Cotton a total of 48 trainees undergoing training at VANAMATI, 25 May 2019
- ❖ Delivered talk on Pink bollworm Management on Cotton, a total of 50 trainees undergoing training at VANAMATI, 20 June 2019.

- ❖ Delivered talk on Pink bollworm Management on Cotton, a total of 50 trainees undergoing training at VANAMATI, 20 June 2019.
- ❖ IPM strategies for pink bollworm management, Ta pandharkawada Dist Yavatmal 6th June 2019. Total of 300 farmers were participated.
- ❖ Delivered talk on pest management in cotton, 100 Agri assistant + Agri superwisers attended, Pandharkawada, Yavatmal district, 3rd October 2019.
- ❖ Delivered lecture on 'Integrated Pest Management on Cotton at GTC, Nagpur on 28.08.2018 a total of thirty cotton growing Farmers from Buldana district of Maharashtra.
- ❖ Delivered lecture on 'Pink bollworm Management on Cotton to Better Cotton Initiative (BCI) officers from south India at Hyderabad on 26.04.2018 a total of 60 participated the programme.
- ❖ Delivered lecture on 'Pink bollworm Management on Cotton to Better Cotton Initiative (BCI) officers from Central India at ICAR-CICR, Nagpur from on 23.05.2018 to 24.05.2018 a total of 79 participated the programme.
- ❖ One day farmer's workshop on 'Integrated Management of Pink bollworm –Cum – Distribution of Pheromone Traps at Girad, Wardha. Delivered lecture on outbreak of Pink bollworm on 31/7/2018.
- ❖ Delivered lecture on 'Pink bollworm Management and its Control to Pesticides dealers from different district of Maharashtra at VANAMATHI, Nagpur on 26.07.2018.
- ❖ Delivered lecture on 'Pink bollworm Management to Quality control dealers from different district of Maharashtra at VANAMATHI, Nagpur on 26.06.2018.
- ❖ Delivered lecture on 'Pink bollworm Management on Cotton to Extension officers from different district of Maharashtra at VANAMATHI, Nagpur on 29.06.2018.
- ❖ Delivered lecture on 'Integrated Pest Management on Cotton at ICAR-CICR, Nagpur on 28.03.2018 a total of 60 cotton growing Farmers from Kumrambheem district of Telangana.
- ❖ One day farmer's workshop on 'Insecticides Resistance Management: Dissemination of Pink bollworm Management at UAS, Raichur, and Karnataka. Delivered lecture on outbreak and Management of Pink bollworm on 12/11/2018.
- ❖ One day farmer's Awareness Programme on Insecticides Resistance Management: Dissemination of Pink bollworm Management (IRM-PBW) at Temurda, Chandrapur district of Maharashtra and delivered lecture on Insect pests of Cotton on 25/8/2018 under IRM-PBW project.
- ❖ One day farmer's Field Training on Management of Pink bollworm in Cotton –Cum – Distribution of Pheromone Traps at Warora, Chandrapur and delivered lecture on field diagnosis of Insect –Pests of Cotton and Pheromone Trap demonstration on 15/9/2018 under IRM-PBW project.
- ❖ One day farmer's Field Training on Biological Control of Pink bollworm in Cotton at Warora, Chandrapur and delivered lecture on Biological Control of Pink on 2.11.2018/9/2018 under IRM-PBW project.

- ❖ Three days State level Agriculture Exhibition held at Dikshabhoomi from 17/10/2018 to 19/10/2018. All the CICR technology was exhibited for the farmers.
- ❖ Two days training on Integrated Cotton Production Technology at KVK-CICR, Nagpur from 27/08/2018 to 28/08/2018. Delivered lecture on IPM in Cotton with Special References to Pink bollworm Management.
- ❖ Three days training on Skill Uppgrading training of SSS at ICAR-CICR, Nagpur and deliverd lecture on Pink bollworm management in Cotton from 13/2/2019 to 15/02/2019.
- ❖ Delivered guest lecture on integrated pest and disease management in Cotton to farmers of Buldhana while training during August 20-23, 2018 at GTC ICAR-CIRCOT Nagpur on 23/08/2018.
- ❖ Four days farmers training during May 28-31, 2018 for farmers of Jalgaon, Maharashtra at Ginning Training Centre ICAR-CIRCOT Nagpur. Delivered guest lecture on integrated pest and disease management in Cotton on 31/05/2018.
- ❖ Four-day farmers training during November 20-23, 2017 for farmers and delivered guest lecture on integrated pest and disease management in Cotton at GTC ICAR-CIRCOT Nagpur on 20/11/2017.
- ❖ Organized one day workshop with ICAR-CIRCOT Nagpur on Application of latest cotton production and processing technologies to increase the benefit of all stakeholders at GTC on 15/11/2017. Delivered guest lecture on Measures to control the Pink Bollworm in Cotton
- ❖ Delivered guest lecture on integrated pest and disease management in Cotton on 03/10/2017 in four-day farmers training during October 03-06, 2017 at Ginning Training Centre ICAR-CIRCOT Nagpur. Ginning Training Centre organized farmers training during September 18-21, 2017 at ICAR-CIRCOT Nagpur. Delivered guest lecture on integrated pest and disease management in Cotton at on 18/09/2017.
- ❖ Delivered guest lecture on Measures to control the Pink Bollworm on 05/09/2017 at four days training programme from September 04-07, 2017 at GTC ICAR-CIRCOT Nagpur
- ❖ Ginning Training Centre organized farmers training during August 28-31, 2017 at ICAR-CIRCOT Nagpur. Delivered guest lecture on integrated pest and disease management in Cotton on 29/08/2017.
- ❖ Delivered guest lecture on integrated pest and disease management in Cotton during farmers training during August 8-11, 2017 at GTC ICAR-CIRCOT Nagpur on 09/08/2017.
- ❖ Ginning Training Centre organized farmers training during August 01-04, 2017 at GTC ICAR-CIRCOT Nagpur. Delivered guest lecture on integrated pest and disease management in Cotton on 04/08/2017.
- ❖ GTC ICAR-CIRCOT Nagpur organized Jalna farmers training during July 24-27, 2017. Delivered guest lecture on integrated pest and disease management in Cotton at GTC ICAR-CIRCOT Nagpur on 25/07/2017.

- ❖ Delivered guest lecture on integrated pest and disease management in Cotton at GTC ICAR-CIRCOT Nagpur on 18/07/2017.
- ❖ Krishak Mandal organized by Krishi Vigyan Kendra, Nandurbar for address the issue of Pink Bollworm and improved Cotton cultivation on 07/05/2016.
- ❖ Delivered guest lecture on Entomology at Ginning Training Centre during farmers training programme conducted on February 08-12, 2016 at ICAR-CIRCOT Nagpur on 11/02/2016.
- ❖ Ginning Training Centre organized farmers training during January 27-31, 2015 at ICAR-CIRCOT Nagpur Delivered guest lecture on integrated pest management in Cotton on 30/01/2015.
- ❖ Delivered guest lecturer in summer school organized by Department of Entomology, ANGRAU on Measurement and management of resistance to chemical insecticides at Rajendranagar from May 27 to June 16, 2014 on 29/05/2014 (Leafhopper insecticide resistance) and 02/05/2014 (Pink Bollworm resistance monitoring).
- ❖ Delivered guest lecture during week training programme organized at Ginning Training Centre on Entomology at ICAR-CIRCOT Nagpur on 14/08/20
- ❖ Delivered guest lecture on Entomology at Ginning Training Centre ICAR-Central Institute for Research on Cotton Technology Nagpur on 23/01/2014.
- ❖ Delivered guest lecture on Entomology at four days training programme during March 26-29, 2013 for farmers of Nagpur district under ATMA Scheme at Ginning Training Centre ICAR-Central Institute for Research Nagpur on 29/03/2014.
- ❖ **Radio talks: 2**
- ❖ **TV show: 3**

Seminar/Symposia/Conference/Workshop/Meeting Attended International:

- ❖ **ChinnaBabu Naik, V.,** Pratik P. Pusadkar., Raghavendra K. P., V. S. Nagrare., Nandini Gokte-Narkhedkar., V. N. Waghmare. Studies on genetic diversity of Cotton Pink bollworm *Pectinophora gossypiella* (Saunders) by using mitochondrial cytochrome oxidase-1 (CO-I) gene suggest a rapid expansion in Indian populations. XVII AZRA International conference on Frontier research in applied zoology and insect pest management strategies: A way forward for food and nutritional security from 12-14 feb 2020 at UAS Raichur, Karnataka pp:1
- ❖ Mohan Kailas Narode., Thakur S., **ChinnaBabu Naik V.,** Impact of Intercrop on Infestation and Severity of Armyworm (*Spodoptera exigua*) and Diamondback moth (*Plutella xylostella*) on Cabbage (*Brassica Oleaceae* L.). XVII AZRA International conference on Frontier research in applied zoology and insect pest management strategies: A way forward for food and nutritional security from 12-14 feb 2020 at UAS Raichur, Karnataka pp:121
- ❖ Nagrare, V.S. Rishi Kumar, S. Kranthi., **ChinnaBabu Naik,V.,** Bhausahab Naikwadi., V. N. Waghmare. Resistance development in whitefly, *Bemisia tabaci* (Gennadius)

(Homoptera: Aleyrodidae) infesting cotton. XVII AZRA International conference on Frontier research in applied zoology and insect pest management strategies: A way forward for food and nutritional security from 12-14 feb 2020 at UAS Raichur, Karnataka pp:225

- ❖ Naduvalakeri Maruti, Durga Prasad N. V. V. S., Sandhya Rani, C., Adinarayana, M. and **Chinna Babu Naik, V.** Seasonal incidence of Pink bollworm, *Pectinophora gossypiella* (Saunders) on Bt cotton under natural field condition. XVII AZRA International conference on Frontier research in applied zoology and insect pest management strategies: A way forward for food and nutritional security from 12-14 feb 2020 at UAS Raichur, Karnataka pp: 77
- ❖ **V Chinna Babu Naik, V S, Nagrare, Wawdhane A, Nandini Gokte-Narkhedkar and VWaghmare VN** (2019). Status of pink bollworm, *Pectinophora gossypiella* (Saunders) resistance to Bt cotton in India. "XIX International Plant Protection Congress (IPPC2019)" was held during 10th to 14th November 2019 in Hyderabad, India, pp: 166
- ❖ Babasaheb Fand, VS Nagrare, **V Chinna Babu Naik, S K Bal, Nandini Gokte-Narkhedkar** and V N Waghmare (2019). Degree-day based phenology model for predicting the developmental events of cotton pink bollworm *Pectinophora gossypiella* (Saunders) in field under changing climate scenario. "XIX International Plant Protection Congress (IPPC2019)" was held during 10th to 14th November 2019 in Hyderabad, India, pp: 218
- ❖ V. S Nagrare, Babasaheb B Fand, **V. China Babu Naik, Shailesh P Gawande and Dipak T Nagrale** (2019). Pink bollworm management in India with area wide approach and community participation: a success story. "XIX International Plant Protection Congress (IPPC2019)" was held during 10th to 14th November 2019 in Hyderabad, India, pp: 224
- ❖ S. Asha, P. S. Neharkar, **V. Chinnababu Naik, R. O. Deotale, Jayashri D. Ughade, S. V. Dhonde, and V. N. Nandanwar.** Parasitization performance of different Trichogramma species against pink bollworm, *Pectinophora gossypiella* (Saunders) under laboratory condition. Global Organic Convention Natural Resource Management for Sustainable Agriculture, Soil Health and Quality Food. Sep 15-17 (2019) Pp: .231
- ❖ P. S. Neharkar, S. Asha, **V. Chinnababu Naik, Jayashri D. Ughade, V. N. Nandanwar and S. V. Dhonde** Performance of trichogramma species to parasitize Pink bollworm *Pectinophora gossypiella* (Saunders) eggs at different temperatures. Global Organic Convention, Natural Resource Management for Sustainable Agriculture, Soil Health and Quality Food. Sep 15-17 (2019) Pp: 232
- ❖ H.B. Santosh, V.Santhy, Ashwini Bargat, **V.Chinna Babu Naik** and V.N Waghmare (2019). Studies on Jassid tolerance in upland Cotton (*Gossypium hirsutum*). Global Organic Convention Natural Resource Management for Sustainable Agriculture, Soil Health and Quality Food. Sep 15-17 (2019) Pp: .176
- ❖ **Chinna Babu Naik V., Subbireddy K. B., Sujit Kumbhare and Nagrare V. S.** 2018. Egg Parasitoid *Trichogrammatoidea bactrae* (Nagaraja) for the Management Pink boll worm, *Pectinophora gossypiella* (Saunders) on Cotton. National Symposium on Entomology

2018: Advances and Challenges to be held during 10-12 December, 2018 at PJTSAU at PJTSAU, Hyderabad pp:59 (**Poster presentation**)

- ❖ Nagrare, V. S., **Chinna Babu Naik, V.** and Naikwadi, B. 2017. Cotton pest's scenario during last decade in India. Organized by Indian Society for Cotton Improvement (ISCI) at Nagpur, Maharashtra during 15-17 september, 2017. Seventh Asian Cotton Research and Development Network (ACRDN) Meeting" September 15-17, 2017, Hotel Le Méridien, Nagpur, Maharashtra, India. p: 42 (**Oral presentation**)
- ❖ **Chinna Babu Naik, V.**, Kumbhare, S. and Venugopalan, M. V. 2017. Impact of newer chemistry on pink bollworm incidence under high density planting system on cotton. Organized by Indian Society for Cotton Improvement (ISCI) at Nagpur, Maharashtra during 15-17 September, 2017. Seventh Asian Cotton Research and Development Network (ACRDN) Meeting" September 15-17, 2017, Hotel Le Méridien, Nagpur, Maharashtra, India. p: 75 (**Poster presentation**)
- ❖ Kranthi, S., Satija, U., Chinna Babu Naik, V., Sheeba Ansari, Chawla, S. and Kranthi, K.R. (2017). Cry toxin expression in developing seeds of bolls varying in age and its impact on pink bollworm. Organized by Indian Society for Cotton Improvement (ISCI) at Nagpur, Maharashtra during 15-17 september, 2017. Seventh Asian Cotton Research and Development Network (ACRDN) Meeting" September 15-17, 2017, Hotel Le Méridien, Nagpur, Maharashtra, India. p: 87-89. (Poster presentation)
- ❖ **Chinna Babu Naik V.**, Ashwini A., Mehar J. G., Kumbhare S., Kranthi S., Venugopalan M. V. 2015. Impact of new molecules on bollworm management in cotton under high density planting system in National Symposium on Future Technologies: Indian Cotton in the Next Decade pp no: 79. Proceedings of National Symposium on "Future Technologies: Indian Cotton in the Next Decade" December 17-19, 2015 at Acharya Nagarjuna University, Guntur 522 510. (**Poster presentation**)
- ❖ Desai R., Solanki B.G., Patel R. K., Vekaraiya R.K., **Chinna Babu Naik V.**, Dharajothi B. and Kranthi S. 2015. Pink bollworm, a Serious threat to Cotton Cultivation in Gujarat H.. Proceedings of National Symposium on "Future Technologies: Indian Cotton in the Next Decade" December 17-19, 2015 at Acharya Nagarjuna University, Guntur - 522 510 pp no: 75-76. . (**Oral presentation**)
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Student guide/ co-guide: 6 (Two Phd and Four M.Sc)

1. Ms. S.Asha, M.Sc. Student, Agricultural College, Nagpur, Dr PDKV, Akola, Maharashtra
2. Mr A. Appala Raju, Ph.D Student, Agricultural College, Bapatla , ANGRAU, Lam, Andhra Pradesh.
3. Mr Sanjog Jeevan Bharati, M.Sc. Student, Agricultural College, Nagpur, Dr PDKV, Akola, Maharashtra
4. Mr Malsawmtluanga Hnialum, M.Sc. Student, Agricultural College, Nagpur, Dr PDKV, Akola, Maharashtra
5. Mr Naduvalakeri Maruti, M.Sc. Student, Agricultural College, Bapatla , ANGRAU, Lam, Andhra Pradesh.
6. Mr Sham Supreeth, Ph.D Student, College of Agriculture, UAS, Raichur, Karnataka, India.
7. Mr Prashanth T, M.Sc Student, Agricultural College, Nagpur, Dr PDKV, Akola, Maharashtra
8. Ms. Priyanka P Dafare, M.Sc Student, Agricultural College, Nagpur, Dr PDKV, Akola, Maharashtra

Memberships:

- ❖ Entomological Society of India, IARI, New Delhi, India
- ❖ Indian society for cotton improvement(ISCI), Mumbai, India
- ❖ Applied Zoologist Research Association (AZRA), Bhubaneswar, Orissa, India
- ❖ Society for Advancement of Human and Nature (SADHANA), HP, India
- ❖ Society Cotton Research and Development Association (CRDA) at CCSAU, Hisar, Haryana.

Special Assignments: National/ International:

- ❖ Acted as Local observer for Online ASRB Exam conducting from 23.08.2021 to 27.08.2021
- ❖ Acted as a member for monitoring of Laila Cyclone affected area of Andhra Pradesh and Telangana during, 2010.
- ❖ Acted as ICAR members for monitoring of Pheromone technology in Andhra Pradesh during, 2018.

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