

Research Center , Ranchi

Personal Details



Dr. Jaipal Singh Choudhary
Scientist

Address : ICAR RCER, Research Centre, , Palandu , Ranchi , Jharkhand
Email-ID:choudhary.jaipal@gmail.com

Research Interest

Insect Ecology, IPM and Molecular phylogeny of Insects

Research Highlights

- Ø Risk assessment, future pest scenarios and impact of climatic variability's on insect pest of horticultural crops specially in mango and litchi pests
- Ø Population genetic diversity of mango hopper's and fruit flies
- Ø Eco-friendly pest management of horticultural crops especially brinjal, tomato, bottle gourd, mango and litchi pests.
- Ø Development of insect pest management modules in organic farming of horticultural crops.

Memberships / Fellowships

1. Society for Bio-control Advancement , Bangalore, India
2. The Indian Science Congress Association, Kolkata, India

Technology Developed

Publication Details

1. **Choudhary, J. S.**, Naaz, N., Prabhakar, C. S. & Moanaro (2016). Genetic analysis of oriental fruit fly, *Bactrocera dorsalis* (Diptera: Tephritidae) populations based on mitochondrial *cox1* and *nad1* gene sequences from India and other Asian countries. *Genetica* 144:611–623.
2. Naaz, N., **Choudhary, J. S.**, Prabhakar, C. S., Moanaro, and Maurya, S. (2016). Identification and evaluation of cultivable gut bacteria associated with peach fruit fly, *Bactrocera zonata* (Diptera: Tephritidae). *Phytoparasitica* 44:165-176. DOI 10.1007/s12600-016-0518-1
3. Moanaro & **Choudhary, J.S.** (2016). Influence of weather parameters on population dynamics of thrips and mites on summer season cowpea in Eastern Plateau and Hill region of India. *Journal of Agrometeorology* 18 (2): 296-299.
4. J. Sridhar, V. Chinna Babu Naik, A. Ghodke, S. Kranthi, K. R. Kranthi, B. P. Singh, **Jaipal S. Choudhary** & M. S. R. Krishna, 2016. Population genetic structure of cotton pink bollworm, *Pectinophora gossypiella* (Saunders) (Lepidoptera: Gelechiidae) using mitochondrial *cytochrome oxidase I (COI)* gene sequences from India. *Mitochondrial DNA Part A-DNA Mapping, Sequencing, and Analysis*, 10.1080/24701394.2016.1214727
5. **Jaipal S. Choudhary**, Naaz, N., Prabhakar, C.S., M. Srinivasa Rao and Das, B., 2015. The mitochondrial genome of the peach fruit fly, *Bactrocera zonata* (Saunders) (Diptera: Tephritidae): complete DNA sequence, genome organization, and phylogenetic analysis with other tephritids using next generation DNA sequencing. *Gene*, 569: 191–202
6. Parveen, S., **Choudhary, J.S.**, Thomas, A. and V.V. Ramamurthy, 2015. Biology, morphology and DNA barcodes of *Tessaratomya javanica* (Thunberg) (Hemiptera: Tessaratomyidae). *Zootaxa* 3936 (2): 261–271.
7. Choudhary, J.S., Moanaro, Naaz, N., and Idris, M. 2015. Determination bio-efficacy of insecticides against litchi stink bug, *Tessaratomya javanica* (thunberg) (Hemiptera: Tessaratomyidae): an emerging major pest of litchi, *litchi chinensis* sonn. *The Bioscan- an International quarterly journal of life sciences*, 10 (1): 217-220
8. Jaipal S. Choudhary, Prabhakar, C.S., Moanaro and Maurya S., 2015. New Record of the Litchi Stink Bug, *Tessaratomya javanica* (Thunberg) Egg Parasitoids and their Natural Control Effect in Litchi Orchards from

- India. *Entomologia Generalis*, 35 (3), 187–197
9. Singh, H.S., G. Sangeetha, S.K. Srivastava, **Jaipal Singh Choudhary**, Kuldeep Srivastava, Bijan Kumar Das, Ajoy Kumar Sahoo, Debasis Mishra, Sanghamitra Pattnaik et al., 2014. Emerging pests of fruit crops, like mango, litchi, bael, tamarind, sweet orange, banana, papaya and guava in eastern India. **Journal of Applied Zoological Research** 25(2): 161-169
 10. **Jaipal S. Choudhary**, Srivastava, C. and Walia, S., 2014. Screening for antifeedant activity of *gymnema sylvestre* leaf extracts against *Spodoptera litura* f. (Lepidoptera: Noctuidae). **The Bioscan- an International quarterly journal of life sciences**, 9(2): 633-638
 11. **Jaipal S. Choudhary**, Naaz, N., Mukherjee, D., Prabhakar, C.S., Maurya, S., Das, B. and S. Kumar 2014. Biodiversity and seasonality of predaceous coccinellids (Coleoptera: Coccinellidae) in mango agro-ecosystem of Jharkhand. **The Ecoscans- an International biannual journal of environmental sciences**, 8(1&2): 53-57.
 12. Maurya, S., Kumar, R., Kumari A., **Choudhary, J. S.** and Kumar, S., 2014. Substrate decomposing fungi of mushroom and their management by some common fungicides. **Vegetos**, 27(2):240-244.
 13. **Jaipal S. Choudhary**, C.S. Prabhakar, Moanaro, Bikash Das and S. Kumar (2013). Litchi stink bug (*Tessaratomia javanica*) outbreak in Jharkhand, India, on litchi. **Phytoparasitica** 41:73-77
 14. Sudarshan Maurya , Ritesh Kumar , **Jaipal S. Choudhary** , Bikash Das and S. Kumar 2013. New report of *Neozygites* sp. infecting red spider mite, *Tetranychus urticae* infesting French bean from Eastern Plateau and Hill region, India. **Archives of Phytopathology and Plant Protection**, DOI:10.1080/03235408.2013.793051 Germany
 15. Sudarshan Maurya , Ritesh Kumar , **Jaipal S. Choudhary** , C.S. Prabhakar, Gopal Shukla , Bikash Das and Shivendra Kumar 2013. *Torribiella pruinosa*, a teliomorph of an entomopathogenic fungus *Hirsutella versicolor* of mango hopper (*Idioscopus clypealis*) from India. **Archives of Phytopathology and Plant Protection**, DOI:10.1080/03235408.2013.794530 Germany
 16. C. S. Choudhary, S. C. Jain, Ritesh kumar and **Jaipal S. Choudhary**, 2013. Efficacy of different fungicides, biocides and botanical extract seed treatment for controlling seed-borne colletotrichum sp. in chilli (*Capsicum annum* L.). **The Bioscan- An International quarterly journal of life sciences**, 8 (1): 123-126
 17. Anjali Kumari, R. Kumar, Sudarshan Maurya, **Jaipal S. Choudhary** and S. Kumar, 2013. Antifungal efficacy of aqueous extracts of neem cake, karanj cake and vermicompost against some phytopathogenic fungi. **The Bioscan- An International quarterly journal of life sciences**, 8(2): 671-674
 18. S. K. Naik, Sudarshan Maurya, R. Kumar, **Jaipal S. Choudhary**, Bikas Das and S. Kumar, 2013. Evaluation of rhizospheric fungi from acid soils of Jharkhand on phosphate solubilization. **The Bioscan- An International quarterly journal of life sciences**, 8(3): 875-880
 19. **Jaipal S. Choudhary**, C. S. Prabhakar, Sudarshan Maurya, R. Kumar, B. Das, and S. Kumar, 2012. New report of *Hirsutella* sp. infecting mango hopper (*Idioscopus clypealis*) from Chotanagpur Plateau, India, **Phytoparasitica**, 40: 243-245
 20. **Jaipal S. Choudhary**, Gopal Shukla, C.S. Prabhakar, Sudarshan Maurya, Bikash Das, Shivendra Kumar, 2012. Assessment of local perceptions on climate change and coping strategies in Chotanagpur Plateau of Eastern India. **Journal of Progressive Agriculture**, 3: 8-15
 21. R. Kumar, Sudarshan Maurya, A. Kumari, **Jaipal S. Choudhary**, Bikas Das, S. K. Naik and S. Kumar, 2012. Biocontrol potentials of *Trichoderma harzianum* against sclerotial fungi. **The Bioscan- An International quarterly journal of life sciences**, 7, 521-525.
 22. **Jaipal S. Choudhary**, Kumari, A., Das, B., Maurya, S. and Kumar, S. (2012). Diversity and population dynamic of fruit flies species in methyl eugenol based parapheromone traps in Jharkhand region of India. **The Ecoscans- An International quarterly journal of environmental sciences**, 1: 57-60
 23. **Jaipal S. Choudhary** and Kumawat, K.C. 2008. Effect of various intercrops on the incidence of sucking insect pests of green gram, *Vigna radiata* (Linn.) Wilczek. **Journal of Eco-friendly agriculture**, 3 (1): 40-42