

List of Research Paper published

No. of research paper published in scientific journal	International Journal	139
	National Journal	50

(i) International journal

1. Salina C. S., Patel N. B. and Patel D. H. (2025). Bio efficacy of selected biopesticides on the predatory reduviid bug, *Rhynocoris marginatus* (Hemiptera: Reduviidae) under tobacco pot culture conditions. *International Journal of Advanced Biochemistry Research*, 9(10): 116-120.
2. Patel D. H., Patel N. B. and Salina C. S. (2025). Influence of weather parameters on insect-pests and associated natural enemies in cotton ecosystem of Anand, Gujarat. *International Journal of Advanced Biochemistry Research*, 9(10): 169-173.
3. Chaudhary P. N., Dabhi M. R., Raghunandan B. L., Patel N. B., Sisodiya D. B. and Prajapati R. V. (2025). First record of *Antilochus coqueberti* (Fabricius) (Heteroptera: Pyrrhocoridae) as a predator of *Dysdercus koenigii* (Fabricius) in Gujarat, India. *International Journal of Advanced Biochemistry Research*, 9(4): 1088-1091.
4. Raval A. T., Sisodiya D. B., Parmar R. G., Thumar R. K. and Patel N. B. (2025). Survey on invasive thrips, *Thrips parvispinus* (Karny) infesting chilli in Anand district. *International Journal of Advanced Biochemistry Research*, 9(1): 524-531.
5. Pavan, J. S., Patel, N.B., Raghunandan, B.L., Baldaniya, A.M. and Bhatt, N. A. (2024). Comparative efficacy of nucleopolyhedrovirus (NPV) alone and in conjunction with chemical insecticides against fall armyworm, *Spodoptera frugiperda* (J.E.Smith) (Noctuidae: Lepidoptera) under laboratory conditions. *International Journal of Tropical Insect Science*, 44, 1475-1486. <https://doi.org/10.1007/s42690-024-01258-w>
6. Pavan J. S., Dodiya R. D., Rudra Gouda M. N., Raghunandan B. L., Patel N. B. and Rajarushi C. N. (2024). Report of *Maruca vitrata* (F) nucleopolyhedrovirus. *Indian Journal of Entomology*, Online published Ref. No. e24873 DoI. No.: 10.55446/IJE.2024.1873.
7. Suthar Y.M., Gohel N. M. and Patel N. B. (2024). Influence of abiotic factors on in vitro growth of indigenous *Trichoderma* isolates of Gujarat. *International Journal of Advanced Biochemistry Research*, 8(12): 895-899.
8. Pavan J. S., Raghunandan B. L., Patel N. B., Rajarushi C. N., Raiza Nazrin M. R. and Ishwarya Lakshmi K. S. (2024). Baculoviruses in Integrated Pest Management of fall armyworm, *Spodoptera frugiperda* (Lepidoptera: Noctuidae): Structure, classification and application. *Journal of Advanced Biology & Biotechnology*, 27(9): 261-271.
9. Jayalekshmi J., Patel N. B. and Kakadiya J. M. (2024). Insects as indicators of environmental pollution: A tool for ecosystem assessment. *International Journal of Pharmaceutical Research and Applications*, 9(6): 1142-1153.
10. Jayalekshmi J., Patel N. B. and Raghunandan B. L. (2024). Screening of endophytic isolates of *Metarhizium anisopliae* (Metchnikoff) Vuillemin and *Beauveria bassiana*

(Balsamo) against *P. xylostella* Linnaeus. *International Journal of Research in Agronomy*, 7(8): 177-180.

11. Pavan J. S., Patel N. B., Raghunandan B. L., Rudra Gouda M. N., Ahmed A. M. and Alansi S. (2024). Natural occurrence, infection dynamics, and molecular characterization of nucleopolyhedrovirus (*Spfn*NPV) infecting fall armyworm, *Spodoptera frugiperda* (J. E. Smith) from maize ecosystems in Gujarat, India. *Journal of King Saud University – Science*, 36(7): 103274.
12. Pavan J. S., Patel N. B., Rajarushi C. N., Rudra Gouda M. N. and Raghunandan B. L. (2024). Exploring the influence of weather parameters on natural nucleopolyhedrovirus (NPV) infection in fall armyworm, *Spodoptera frugiperda* (J.E. Smith) larvae in maize ecosystems. *Journal of Entomological Research*, 48(3): 310-316.
13. Patel H. K., Patel N. B., Parmar R. G. and Patel H. C. (2024). Evaluation of different bio-pesticides against red spider mite, *Tetranychus urticae* Koch in marigold. *International Journal of Research in Agronomy*, 7(8): 424-427.
14. Trivedi N. P., Sisodiya D. B., Raghunandan B. L., Patel N. B., Thumar R. K. and Parmar R. G. (2024). Toxicity of insecticides to pollinators in cucumber vis-à-vis tolerant gut microbiota of *Apis dorsata* Fabricius. *Pesticide Research Journal*, 36 (1): 68-73.
15. Patel H. C., Sisodiya D. B., Patel N. B. and Pawar N. B. (2023). Population fluctuation study of lepidopteran pests through sex pheromone trap. *Biological Forum – An International Journal*, 15(5): 152-156.
16. Chaudhary P. J., Raghunandan B. L., Patel H. K., Mehta P. V., Patel N. B., Sonth B., Dave A., Bagul, S. Y., Divya M., Jain, D., Abdulaziz, A. A. and Kaushik, P. (2023). Plant growth-promoting potential of entomopathogenic fungus *Metarhizium pinghaense* AAUBC-M26 under elevated salt stress in tomato. *Agronomy*, 13(6): 1577-1600.
17. Pawar N. B., Patel H. C., Patel N. B. and Patel C. J. (2023). Impact of transplanting dates and nitrogen levels on the incidence and severity of rice diseases. *The Pharma Innovation Journal*, 12(6): 4241-4247.
18. Pawar N. B., Patel H. C., Patel N. B. and Patel C. J. (2023). Effect of date of transplanting and nitrogen levels on incidence of major insect-pests of rice. *Biological Forum – An International Journal*, 15(5a): 305-311.
19. Mohapatra A. R., Sisodiya D. B., Parmar R. G., Thumar R. K. and Patel N. B. (2023). Evaluation of bio-intensive, chemical intensive and integrated pest management modules against fall armyworm, *Spodoptera frugiperda* (J. E. Smith) infesting maize. *The Pharma Innovation Journal*, 12(9): 513-520.
20. Dabhi M. R., Raghunandan B. L., Patel N. B., Rukhsar and Patel S. R. (2023). Report on the occurrence of cicada, *Platypleura octoguttata* (Hemiptera: Cicadidae) on eucalyptus in Gujarat. *International Journal of Environment and Climate Change*, 13(10): 4157-4160.
21. Prajapati D. R., Patel N. B. and Gohel N. M. (2023). A Review on Entomopathogenic Facet of *Fusarium verticillioides*. *Environment and Ecology*, 41(4): 2365-2374.

22. Pavan J. S., Patel N. B., Raghunandan B. L. and Baldaniya A. M. (2022). Efficacy of Nucleopolyhedrovirus (*SfNPV*) and insecticides alone and in combination against fall armyworm, *Spodoptera frugiperda* (J. E. Smith) (Lepidoptera: Noctuidae) infesting maize. *Biological Forum – An International Journal*, 14(4): 1120-1125.
23. Baldaniya A. M., Patel N. B., Raghunandan B. L. and Pavan J. S. (2022). Influence of weather parameters on the seasonal incidence of mango hopper, *Idioscopus nitidulus* Walker in middle Gujarat. *Biological forum-An International Journal*, 14(3): 1531-1534.
24. Patel N. M., Patel N. B. and Raghunandan B. L. (2022). Report of *Novius fumidus* Mulsant (Coccinellidae: Coleoptera); A potential predator of Egyptian cottony cushion scale (*Icerya aegyptiaca* Douglas) infesting *Casuarina equisetifolia* in Gujarat, India. *Biological Forum – An International Journal*, 14(4): 190-192.
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27. Patel N. M., Patel N. B. and Raghunandan B. L. (2022). First report of *Chelonus* sp. (Hymenoptera: Braconidae); an egg larval parasitoid of fall armyworm, *Spodoptera frugiperda* (J. E. Smith) (Lepidoptera: Noctuidae) in Anand, Gujarat, India. *Insect Environment*, 25(3): 465-468.
28. Patel N. M., Patel N. B. and Raghunandan B. L. (2022). A First host record of false chinch bug, *Nysius inconspicuus* (Hemiptera: Lygaeidae) on sesame in Anand (Gujarat, India). *Insect Environment*, 25(3): 462-464.
29. Patel N. B., Bhagora J. K., Raghunandan B. L. and Patel N. M. (2022). First report of new invasive thrips, *Thrips parvispinus* (Karny) (Thripidae: Thysanoptera) in chilli fields of Umreth in Anand District of Gujarat state. *International Journal of Environment and Climate Change*, 12(3): 73-78.
30. Patel P. H., Sisodiya D. B., Raghunandan B. L., Patel N. B., Patel D. R. and Chavda K. M. (2021). Survey and surveillance of fall armyworm, *Spodoptera frugiperda* (J. E. Smith) and its associated natural enemies (Lepidoptera: Noctuidae) in maize in Anand district of Gujarat. *Journal of Biological Control*, 35(3): 234-246.
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32. Raghunandan B. L., Patel N. M. and Patel N. B. (2021). Diversity of spiders in paddy ecosystem of middle Gujarat. *Biological Forum - An International Journal*, 13(4): 1141-1144.
33. Raghunandan B. L., Kapadiya T. B., Patel, N. B., Patel N. M. and Mehta D. M. (2020). Efficacy of different entomopathogenic fungi against mango hoppers in middle Gujarat. *International Journal of Current Microbiology and Applied Sciences*, 9(8): 2310-2316.

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35. Patel H. C., Borad P. K. and Patel, N. B. (2020). Determination of economic injury and threshold level of *Maruca vitrata* (Geyer) in green gram. *International Journal of Current Microbiology and Applied Sciences*, 9(9): 3211-3215.
36. Patel N. B., Bhatt N. A. and Patel C. C. (2020). Effect of weather parameters on incidence of brinjal mite, *Tetranychus urticae* Koch and its predatory mite, *Amblyseius alstoniae* Gupta. *Journal of Pharmacognosy and Phytochemistry*, 9(4): 3095-3099.
37. Patel N. B., Thumar R. K. and Patel C. C. (2020). Efficacy of different bio-pesticides against brinjal mite, *Tetranychus urticae* Koch. *Journal of Entomology and Zoology Studies*, 8(3): 1049-1053.
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39. Patel N. M and Mehta D. M. (2019). Bio-efficacy of insecticides against tomato pinworm, *Tuta absoluta* (Meyrick). *Journal of Entomology and Zoology Studies*, 7(4): 732-734.
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