

List of Research publications (Year wise from 2016 to 2023)

2016	
1.	Kumar, J. 2016. A comparative prelude on wheat rusts in India. <i>Indian Phytopathology</i> 69: 328-339.
2017	
2.	Choudhary, M., B. K. Choudhary, S. Bhojar, S. B. Kale S. P. Chaudhari, B. C. Bera, A. Jain and S. B. Barbuddhe. 2017. Isolation and characterization of multi-drug resistant <i>Leclercia</i> species from animal clinical case. <i>Letters in Applied Microbiology</i> 66(1): 44-48.
3.	Jeer, M., V.K. Choudhary and Anil Dixit. 2017. Field efficacy of new pre-mix formulation of Flonicamid 15% + Fipronil 15% WG against major insect pests of Rice. <i>Journal of Entomology and Zoology Studies</i> 5(3): 679-685.
4.	Jeer, M., V.K. Choudhary and Anil Dixit. 2017. Effect of pre-mix combination of Acephate and Imidacloprid on insect pests of rice and their natural enemies. <i>Journal of Entomology and Zoology Studies</i> 5(3): 1272-1278.
5.	Murali-Baskaran, R. K., K.C. Sharma, P. Kaushal, J. Kumar, P. Parthiban, S. Senthil-Nathan and R.W. Mankin. 2017. Role of kairomone in biological control of crop pests- A review. <i>Physiological and Molecular Plant Pathology</i> 101:3-15.
6.	Murali Baskaran, R.K., K.C. Sharma and J. Kumar. 2017. Seasonal and relative abundance of stem borer and leaf folder in wet land rice eco-system. <i>Journal of Entomology and Zoology studies</i> 5: 879-884.
7.	Muthusamy S.K., P.N. Sivalingam, J. Sridhar, D. Singh, S. M. Haldhar and P. Kaushal. 2017. Biotic stress inducible promoters in crop plants- a review. <i>Journal of Agriculture and Ecology</i> 4:14-24.
2018	
8.	Choudhary, B.K., M. Choudhary, B.C. Bera and S.B. Barbuddhe. 2018. Emergence of multi-drug resistant <i>Raoultella ornithinolytica</i> associated with Indian major carp. <i>Current Science</i> 114(9): 1818-1821
9.	Jain, L., V. Kumar, S. Chaturvedi, G. Roy and S.B. Barbuddhe. 2018. Seroprevalence of brucellosis in bovines of Chhattisgarh, India. <i>Indian Journal of Animal Research</i> 53(2): 255-259.
10.	Jain, L., V. Kumar, S. Chaturvedi, G. Roy and S.B. Barbuddhe. 2018. Seroprevalence of infectious bovine rhinotracheitis in Chhattisgarh, India. <i>Research Journal of Biotechnology</i> 13(7): 69-72
11.	Kharbikar, L.L., S.K. Nandanwar, A.S. Shanware, Y.M. Yele, P.N. Sivalingam, P. Kaushal and J. Kumar 2018. Microbe-mediated salinity tolerance in plants Nature Research Microbiology Community 87843 (31111): 1-9.
12.	Meena, P. N., L.L. Kharbikar, R.S. Rana, S. Satpathy, A. Shanware, P.N. Sivalingam and S. Nandanwar. 2018. Detection of mesta yellow vein mosaic virus (MeYVMV) in field samples by a loop-mediated isothermal amplification reaction. <i>Journal of</i>

	<i>Virological Methods</i> 263: 81-87.
13.	Jain, L., V. Kumar, S. Chaturvedi, G. Roy and S.B. Barbuddhe. 2018. Seroprevalence of leptospirosis in bovines of Chhattisgarh, India. <i>Research Journal of Biotechnology</i> . 14(7): 38-42.
14.	Kiran Kumar, K., J. Sridhar, R.K. Murali-Baskaran, S. Senthil-Nathan, P. Kaushal, S.K. Dara, S. Arthurs. 2018. Microbial biopesticides for insect pest management in India: Current status and future prospects. <i>Journal of Invertebrate Pathology</i> . 165: 74-81.
15.	Sahu, R., B.S. Kale, J. Vergis, P. Dhaka, M. Kumar, M. Choudhary, L. Jain, B.K. Choudhary, D.B. Rawool, S.P. Chaudhari, N.V. Kurkure, S.V.S. Malik and S.B. Barbuddhe. 2018. Apparent prevalence and risk factors associated with occurrence of <i>Coxiella burnetii</i> infection in goats and humans in Chhattisgarh and Odisha, India. <i>Comparative Immunology, Microbiology and Infectious Diseases</i> . 60: 46-51.
2019	
16.	Sivalingam, P.N., Y. Yele., R.K. Sarita and K.C. Sharma. 2019. Incidence of pigeonpea yellow mosaic disease and vector population from Chhattisgarh, India. <i>International Journal of Current Microbiology and Applied Sciences</i> 8: 1699-1703.
17.	Kharbikar, L.L., A. S. Shanware, M.S. Saharan, R. Aggarwal, S.K. Nandanwar and P. N. Sivalingam. 2019. <i>Fusarium graminearum</i> micro RNA-like RNAs and their interactions with wheat genome: A much-needed study. <i>Indian Phytopathology</i> 72: 565-573.
18.	Mallikarjuna, J., Y. Yele and S.K. Jain. 2019. Heavy infestation of sugarcane leafhopper, <i>Pyrilla perpusilla</i> on wheat and oats in Chhattisgarh. <i>Indian Journal of Entomology</i> 81(3): 516-517.
19.	Choudhary, M., B.K. Choudhary, B.C. Bera, S.P. Chaudhari, D.K. Giri, R.C. Ghosh and S.B. Barbuddhe 2019. Association of <i>Myroides odoratimimus</i> in immunocompromized piglets with post weaning multisystemic wasting syndrome. <i>Journal of Applied Microbiology</i> 127(6): 1635-1645.
20.	Choudhary, M., B.K. Choudhary, R.C. Ghosh, S. Bhoyar, S.B. Kale, S.P. Chaudhari and S.B. Barbuddhe. 2019. Cultivable microbiota and pulmonary lesions in polymicrobial bovine pneumonia. <i>Microbial Pathogenesis</i> 134 (2019) 103577.
21.	Murali Baskaran, R.K., J. Sridhar, K.C. Sharma and S. Senthil-Nathan. 2019. Influence of summer weather on prevalence of rice yellow stem-borer in central India: Monitoring and biocontrol strategy. <i>Biocatalysis and Agricultural Biotechnology</i> 21: 101340.
22.	Sahu, R.K., M.L. Sharma, P. Moventhan and M.A. Khan. 2019. Assessment of socio-economic status and communicational characteristics of farmers using bio-control agents. <i>International Journal of Current Microbiology and Applied Sciences</i> 8(12): 2894-2901.
23.	Muthusamy, S.K., A. Marathe, M. Mahajan, B. Sahu, P. Sivalingam, J. Kumar and P. Kaushal. 2019. Gene traps strategies to unravel and characterize novel biotic-stress inducible genes in plants. <i>Research Journal of Biotechnology</i> 14(12):168-175.
24.	Sahu, R.K., M.L. Sharma, P. Moventhan and M.A. Khan. 2019. Constraints perceived

	by the farmers while using biocontrol agents. <i>International Journal of Chemical Studies</i> 7(6): 2547-2549.
2020	
25.	Baruah, A., P.N. Sivalingam, U. Fatima and M. Senthil-Kumar. 2020. Non-host resistance to plant viruses: what do we know? <i>Physiological and Molecular Plant Pathology</i> . 111:101506.
26.	Bera, B., M. Choudhary, T. Anand, K. Sundaram, N. Virmani, B. Choudhary and B.N. Tripathi. 2020. Detection and genetic characterization of porcine circovirus 3 (PCV3) in pigs in India. <i>Transboundary and Emerging Diseases</i> 67(3):1062-1067.
27.	Jain, L. and V. Kumar. 2020. Leptospirosis as neglected re-emerging zoonoses in India: An overview. <i>Journal of Animal Research</i> . 10(6): 853-858.
28.	Kumar, V., L. Jain, S.K. Jain, S. Chaturvedi and P. Kaushal. 2020. Bacterial endophytes of rice (<i>Oryza sativa</i> L.) and their potential for plant growth promotion and antagonistic activities. <i>South African Journal of Botany</i> , 134:50-63.
29.	Jeer, M., Y. Yele, K.C. Sharma and N.B. Prakash. 2020. Exogenous application of different silicon sources and potassium reduces pink stem borer damage and improves photosynthesis, yield and related parameters in wheat. <i>Silicon</i> 13:901-910.
30.	Murali-Baskaran, R.K., J. Sridhar, K.C. Sharma, L. Jain, S. Senthil-Nathan, W.B. Hunter, J. Kumar and P. Kaushal. 2020. Kairomones effect on parasitic activity of <i>Trichogramma japonicum</i> against rice yellow stem-borer, <i>Scirpophaga incertulas</i> . <i>Journal of Applied Entomology</i> 144(5):373-381.
31.	Murali-Baskaran, R.K., K.C. Sharma, J. Sridhar, J. Lata and J. Kumar. 2020. Multiple release of <i>Trichogramma japonicum</i> Ashmead for biocontrol of rice yellow stem borer <i>Scirpophagaincertulas</i> (Walker). <i>Crop Protection</i> .141:105471
32.	Sahu, P. K., R. Sao, S. Mondal, G. Vishwakarma, S.K. Gupta, V. Kumar, S. Singh, D. Sharma and B.K. Das. 2020. Next Generation Sequencing based forward genetic approaches for identification and mapping of causal mutations in crop plants: a comprehensive Review. <i>Plants</i> 9(10):1355.
2021	
33.	Dey, A., P.R. Shashank, N.M. Meshram, S. Subramanian, M. Jeer, C.M. Kalleshwaraswamy, S.M. Chavan, J. Jindal, and S.B. Suby. 2021. Molecular diversity of <i>Sesamia inferens</i> (Walker, 1856) (Lepidoptera: Noctuidae) from India. <i>3 Biotech</i> 11: 134.
34.	Dokka, N., M.M. Mahajan, B. Sahu, A. Marathe, H.K. Singh and P.N. Sivalingam. 2021. Molecular analysis, infectivity and host range of Tomato leaf curl Karnataka virus associated with Corchorus yellow vein mosaic betasatellite. <i>Virus Research</i> 303:198521.
35.	Ghosh, P.K., Mallikarjuna J., P.N. Sivalingam, B. Parameshwari, H.K. Singh, V.K. Choudhary, K. Kiran Kumar, B. Sahu, Senthil-Kumar Muthappa, A. Dixit and A. Das. 2021. Agronomic innovations in biotic stress management and its combined effect with abiotic stresses in crop production. <i>Indian Journal of Agronomy</i> 66: S237-S257.
36.	Kumar, J., R.K. Murali-Baskaran, S.K. Jain, P. N. Sivalingam, A. Dixit, J. Mallikarjuna

	and P. K. Ghosh. 2021. Biotic stresses of agricultural crops in India: re-visiting national status and mitigation strategies. <i>Current Science</i> 120: 264-265.
37.	Kumar, J., R.K. Murali-Baskaran, S.K. Jain, P.N. Sivalingam, J. Mallikarjuna, V. Kumar, K.C. Sharma, J. Sridhar, P. Mooventhana, A. Dixit and P.K. Ghosh. 2021. Emerging and re-emerging biotic stresses of agricultural crops in India and novel tools for their better management. <i>Current Science</i> 121: 26-36.
38.	Murali-Baskaran, R.K., J. Sridhar, K.C. Sharma and L. Jain. 2021. Kairomone gel formulations enhance biocontrol efficacy of <i>Trichogramma japonicum</i> Ashmead on rice yellow stem borer, <i>Scirpophaga incertulas</i> Walker. <i>Crop Protection</i> 146: 105655.
39.	Sahu, B., D. Dokka, M.M. Mahajan, K.C. Sharma, H.K. Singh, A. Marathe, B.P. Dewangan, P. Mooventhana, Y. Yele, J. Sridhar, V. Kumar, P.N. Sivalingam, J. Kumar, P. Kaushal and P.K. Ghosh. 2021. Begomoviruses affecting pulse and vegetable crops are unevenly distributed in distinct agroecological zones of the eastern India. <i>Journal of Phytopathology</i> 169: 209-228.
40.	Mishra, R., G.J.N. Rao, R.N. Rao, M.J. Baig, V. Kumar and P. Kaushal. 2021. Rice Tetra 5-40 (IC0635009; INGR20004), a Tetraploid Cytotype (2n=4x=48) of Rice (<i>Oryza sativa</i>). <i>Indian Journal of Plant Genetic Resources</i> 32: 308-309.
41.	Murali-Baskaran, R.K., S. Senthil-Nathan and W.B. Hunter. 2021. Anti-herbivore activity of soluble silicon for crop protection in agriculture: a review. <i>Environmental Science and Pollution Research</i> 28: 2626–2637.
2022	
42.	Mallikarjuna, J., Y. Yele, K. C. Sharma, N. B. Prakash and A. Marathe. 2022. Silicon supplementation along with potassium activated defense reaction in wheat plants and reduce the impact of pink stem borer incidence. <i>Silicon</i> .14: 11007-11014.
43.	Mooventhana, P. and M. Choudhary. 2022. Assessment of frozen semen quality through foldscope microscopy-A novel application of frugal science to reduce the infertility rate. <i>Indian Journal of Animal Research</i> B-4699.
44.	Murali-Baskaran, R.K., P. Mooventhana, D. Das, A. Dixit, K.C. Sharma, S. Senthil Nathan, P. Kaushal and P.K. Ghosh. 2022. The future of plant volatile organic compounds (pVOC) research: Advances and applications for sustainable agriculture. <i>Environmental and Experimental Botany</i> . 200: 104912.
45.	Murali-Baskaran, R.K., S.K. Jain and P. Kaushal. 2022. Screening pigeonpea (<i>Cajanus cajan</i>) mini-core germplasm sub-set for tolerance to wilt and pod borers. <i>Indian Journal of Agricultural Sciences</i> 92(7): 121-123.
46.	Rai, A., P.N. Sivalingam and M. Senthil Kumar. 2022. Aspotlight on non-host resistance to plant viruses. <i>Peer J</i> 10:e12996.
47.	Sahu, P.K., R. Sao, D.K. Choudhary, A. Thada, V. Kumar, S. Mondal, B.K. Das, L. Jankuloski and D. Sharma. 2022. Advancement in the breeding, biotechnological and genomic tools towards development of durable genetic resistance against the rice blast disease. <i>Plants</i> 11: 2386.

48.	Sahu, R.K., M.L. Sharma, P. Mooventhan and M.A. Khan. 2022. Effectiveness of the multimedia training module on farmer's knowledge in using bio-control Agents: An experimental investigation. <i>Indian Research Journal of Extension Education</i> 22(1): 50-54.
49.	Sivalingam, P. N., N. Dokka, M.M. Mahajan, B. Sahu, A. Marathe, P. Kaushal and P. K. Ghosh. 2022. Achieving maximum efficiency of mungbean yellow mosaic India virus infection inmungbean by agroinoculation. <i>3Biotech</i> 12: 29.
50.	Tyagi, S., S. Narayana, R.N. Singh, C. P. Srivastava, S. Twinkle, S.K. Das and M. Jeer. 2022. Migratory behaviour of brown planthopper, <i>Nilaparvata lugens</i> (Stål) (Hemiptera: Delphacidae), in India as inferred from genetic diversity and reverse trajectory analysis. <i>3 Biotech</i> 12(10): 1-12.
2023	
51.	Jain, L., V. Kumar, S.K. Jain, P. Kaushal and P.K. Ghosh. 2023. Isolation of bacteriophages infecting <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> and genomic characterization of novel phage vB_XooS_NR08 for biocontrol of bacterial leaf blight of rice. <i>Front. Microbiol.</i> 14: 1084025.
52.	Pawar, P., R.K. Murali Baskaran, K.C. Sharma and A. Marathe. 2023. Enhancing biocontrol potential of <i>Trichogramma chilonis</i> against borer pest of wheat and chickpea. <i>iScience</i> 26: 1-17.
53.	Hem Prakash Verma, P. Mooventhan and P.K. Pandey. 2023. Farmers' uptake of Oyster Mushroom Production through ADOPT Model. <i>Indian Res. J. Ext. Edu.</i> 23 (2), April-June, 2023. (https://doi.org/10.54986/irjee/2023/apr_jun/36-41 .)