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Personal Information

Name **Dr.Dinesh Singh**	 **Photo**
Designation	Head, Division of Crop Protection
Division/Section	Division of Crop Protection
Research Area	1.Biological Control of plant diseases 2. Molecular characterization of bacterial and fungal plant pathogens 3. Race characterization of bacterial plant pathogens 4. Diversity analysis of bacterial and fungal plant pathogens 5. Ecofriendly management of plant diseases
Patent Details/Copy rights	
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External Funded Projects

Sr. No.	Title of the Project	Level of Association (PI/CoPI/ Associate)	Value of the Project (Rs. in lakhs)	Sponsoring Agency
1.	Identification of resistance source against prominent races and functional characterization of avirulence genes of *Xanthomonas campestris* pv. *campestris* causing black rot disease of crucifer crops, duration 26-03- 2018 to 25-03- 2021	PI	38.42	DST
2.	QTL mapping of black rot (*Xanthomonas campestris* pv. *campestris*) resistance (race-4) genes in cauliflower. Co-PI, duration 13-09- 2018 to 12-09- 2021	Co-PI	50.73	DBT
3.	Outreach Project on *Phytophthora*, *Fusarium* and *Ralstonia* diseases of Horticultural & Field crops – PI, ICAR 23/02/ 2009- 31-12-2016.	PI	89.00	ICAR

4.	Characterization and identification of *Xanthomonas campestris* pv. *campestris* races causing black rot disease of crucifer crops, duration 01/11/2011-31/10/2014.	PI	27.98	DST
5.	Characterization of *Xanthomonas oryzae* pv. *oryzae* strains from North and North- Eastern regions with respect to biochemical, nuclear virulence profiles and genetic screening of Xop like effectors to investigate its role as virulence determinants to induce blight in rice. duration 01/12/2011-30/11/2014.	Co-PI	68.65	DBT
6.	Reduction in Post harvest losses of fruits & vegetables, duration 1/04/2001 - 31/12/ 2004	Project Associate	343.68	ICAR
7.	Development of Commercial viable technologies for on farm processing of fruits & vegetables duration 01/10/ 2000- 30/9/ 2003	Project Associate	121.07	ICAR
8.	Understanding the role of TAL effectors of *Xanthomonasoryzae* pv. *oryzae* in modulating rice innate immune response to cause bacterial blight , duration 01-01- 2018- 31-03- 2022	Co- PI	41.918	DBT
9.	Farm Demonstration and Commercial Production of *Trichoderma* as Biopesticides & Growth Promoter duration March, 2009- March 2012	Co-PI	36.00	DST
10.	Biotech-KISAN Farmers prosperity through Biotech-KISAN Hub in Bundelkhand region	Co- PI	200.00	DBT
11.	Deciphering the role of Xop-T3SS effectors of Xanthomonas axonopodis pv. punicae in the modulation of PAMP- triggered immune responses in pomegranate, Duration 23-03- 2015- 22-03-2018	Co-PI	42.698	DBT

12.	Evaluation of oil based bioformulation against foliar diseases of tomato duration 20.09.2018- 30 June 2021	PI	16.094	M/S TrichoAgronica Pvt. Ltd. Faridaba
13.	Development of diagnostic Kits for quick detection of CTV, HLB and Phytophthora rot diseases in Citrus of North East India (04-02-2021- 03-02-2024)	CCPI	282.85	DBT

1. **Research Publication**

1. **Dinesh Singh**, Chaturvedi, A.P. and Dayal, R. (1992). Decomposition of leaf litter by fungi in aquatic habitate. *Proc. Nat. Acad. Sci., India,* **62B(**IV): 593 – 596.
2. Ramesh Chand, P. N. Singh, **Dinesh Singh** and Roopali Singh (1994). Copper and streptomycin resistance in *Xanthomonas campestris* pv. *viticola. J. of Plant Disease and Protection.* **10(5):** 487-491.
3. Ramesh Chand, **Dinesh Singh** and Patil, B. P. (1994). Grapevine bacterial canker disease and production of quality grape. *Draksha Vrutta Souvernir*, 135-136.
4. Ramesh Chand, B. D. Singh, **Dinesh Singh** and Singh, P. N. (1995). *Xanthomonas campestris* pv. *partheni* pv. nov. incitent of leaf blight of parthenium. *Antonie*

Van Leeuwenhock J.**68**: 161- 164.

5. Ramesh Chand, **Dinesh Singh,** V. Prasad, S. Chaurasia and M. Lal (1996). Inoculation technique for the fruit phase of bacterial spot (*Xanthomonas campestris* pv. *vesicatoria* (Doidge) Dye) disease of tomato. *New Agricultrist*, **7(1**): 67- 71.
6. **Dinesh Singh** and Srivastava, J. S. (1997). Chloramphenicol resistant mutants of mung bean bean rhizobia showing cross resistance against thiram (Tetramethyl thiuram disulphide). *New Agriculturist*, 8 (2): 105-110.
7. **Dinesh Singh** and Srivastava, J. S. (1998). Nodule occupancy by the inoculant strains of *Bradyrhizobium* sp. (*Vigna*) in green gram: seed treatment with fungicides. *Acta Botanica Indica* 26: 149 – 155.
8. Srivastava, J. S. **Dinesh Singh,** U. P. Singh and Wagner, K. G. (2000). Differential sensitivity of rhizobial strains to ajoene, a constituent of garlic (*Allium sativum* L.) *New Agriculturist*, **11** (1, 2): 1- 4.
9. **Dinesh Singh** (2002). Efficacy of fungicides against green and blue mould rot of kinnow. *Annals of Plant Protection Sciences*. **10 (2)**: 272 – 276.
10. **Dinesh Singh**, B.S. Bisht, Mukand Narayan (2002). Losses of kinnow fruits during transportation, *New Agriculturist*, 13 (1, 2): 55 – 59.
11. **Dinesh Singh** and A. K. Thakur (2002). Suppression of the post harvest decay in kinnow fruits by hot water immersion treatment. *Indian Phytopathology* **55(3**): 282 – 285.
12. **Dinesh Singh** and A. K. Thakur (2003). Effect of pre harvest spraying of fungicides and calcium nitrate on fruit rot and occurrence of mycoflora on kinnow during low temperature storage. *Plant Disease Research,***18**(1): 9 – 11.
13. **Dinesh Singh** and A. K. Thakur (2003). Effect of packaging on quality and rotting of kinnow fruits during storage. *Haryana J. Hort. Sci*. **32** (3): 191 – 196.
14. **Dinesh Singh** and R. K. Jain (2004). Post harvest losses in distance marketing of kinnow. *Plant Dis. Res.***19** (1): 36 – 39.

15. **Dinesh Singh** (2004). Effect of *Debaryomyces hansenii* and calcium salt on fruit rot of peach (*Rhizopus macrosporus*). *Ann. Plant Protec. Sci.***12** (2): 310 – 313.
16. **Dinesh Singh**, R. K. Jain , Manoj Kr. Agarwal and Anil Kumar (2003). Effect of harvesting methods and transportation of kinnow fruits on extent of losses and economic feasibility. *Indian J. Citriculture***2(1):**57- 64.
17. Gangawar, L. S. Ilyas, S. M., **Dinesh Singh** and Sandeep Kumar (2005). An economic Evaluation if kinnow mandarin cultivation in Punjab. Agricultural Economics Research Review, **18**: 71 – 80.
18. Thakur, A. K. **Dinesh Singh** and Rashu Mahajan (2005). Effect of heat treatment and Preservative on quality of stored kinnow juice. *Beverage and Food World*, **32(12):**48 – 49,52
19. **Dinesh Singh** and J. S. Srivastava (2005) Effect of fungicides on survived of bradyrdizobia on moong bean seeds. *New Agricuturist*, **16** (1, 2): 135-138.
20. **Dinesh Singh** and A. K. Thakur (2005). Effect of fungicides on spoilage caused by mycoflora in kinnow (*Citrus reticulate*) fruits during storage. J. Mycology & Pl. Pathol. **35** (1): 125-128
21. **Dinesh Singh** (2005) Interactive effect of *Debaryomyces hansenii* and calcium chloride to reduce Rhizopus rot of peaches. J. Mycology & Pl. Pathol. **35**(1): 118- 121.
22. **Dinesh Singh, A.K. Thakur and V. R. Bhagwat (2005).** Effect of Fungicides on fruit drop of kinnow *New Agricuturist,***16** (1,2): 47-50.
23. **Dinesh Singh,** Goutam Mandal, M. K. Agarwal, P. Kumar and R. K. Jain (2006). Effect of hot water dip treatments to reduce incidence of Rhizopus rot in peach fruits. *Indian Phytopath.* **59**: 52-55
24. **Dinesh Singh** and Goutam Mandal (2006). Post harvest quality and spoilage of peach fruits stored in perforated poly bags. *J. Indian Hort.*63 (4): 390- 392.
25. **Dinesh Singh** and Goutam Mandal (2006). Improved control of spoilage with a combination of hot water immersion and *Debaryomyces hansenii* of peach fruit during storage. *Indian Phytopath.* 59 (2): 168-173
26. **Dinesh Singh**, P. C. Sarkar, R. K.. Jain and S. Srivastava (2006). Suitability of lac based formulation on kinnow fruits to enhance shelf life. *J. Food Sci. & Technlo.*43(6):648-650.
27. Manoj kumar Agarwal, R. K. Jain and **Dinesh Singh** (2006): Determination of CFB Boxes dimensions for packaging of kinnow fruit. *J. of Agril. Engineering* 43 (2): 75-77.
28. Goutam Mandal, **Dinesh Singh** and R.R. Sharma (2007). Effect of hot water treatment and bio control agent (*Debaryomyces hansenii*) on shelf life of peach. *Indian J. Hort.* 64 (1): 25-28.
29. **Dinesh Singh** and Goutam Mandal (2007). Incidence of mycoflora and fruit rot in peach: opening in packaging materials. *Ann. Pl. Protec. Sci.* 15(1): 161- 164.
30. Gangawar, L. S, **Dinesh Singh** and D. B. Singh (2007). Estimation of post harvest losses in kinnow mandarin in Punjab using a modified formula. *Agricultural Economics Research Review*, 20: July – December 2007, 315-331.
31. **Dinesh Singh** and A. K. Thakur (2008). Effect of juice extraction methods on the quality and organoleptic acceptability of kinnow juice. New Agricult.**18** (1,2): 95- 98.
32. Ram Roshan Sharma, Rajbir Singh, **Dinesh Singh**, Ram Kishore Gupta (2008). Influence of row covers and mulching interaction on leaf physiology, fruit yield and albinism incidence in 'Sweet Charlie' strawberry (*Fragaria x ananassa* Duch). *Fruits*, **63**: 103 – 110.

33. **Dinesh Singh**, P.C. Sarkar, R. R. Sharma and S. Srivastava (2008). Effect of lac based formulations on incidence of *Penicillium italicum* on kinnow fruits. *Indian Phytopath.* **60** (1): 79- 82.
34. **Dinesh Singh** and R. R. Sharma (2007). Post harvest wax coating of kinnow fruits to retain quality during storage. *Agricultural Engineering Today***31 (2):** 15- 17.
35. **Dinesh Singh**, R. K. Jain and N. Prasad (2008). Application of lac wax emulsion in combination with fungicide on kinnow fruit to enhance shelf life. *Indian J. Citriculture*, **3** (1): 43- 49.
36. Gangawar, L. S, **Dinesh Singh** and Goutam Mondal (2008). Economic evaluation of peach cultivation in North Indian Plains. *Agricultural Economics Research Review*, **21**: January- June 123-129.
37. Sushil Kumar Singh, **Dinesh Singh**, Ramesh Chand and J. Singh (2008). A new virulent strain of *Xanthomonas campestris* pv. *parthenii* causing leaf spot of parthenium. Indian Phytopath.**61** (3): 317.
38. Ram Roshan Sharma, Rajbir Singh, **Dinesh Singh**, Ram Kishore Gupta (2008). Influence of row covers and mulching interaction on leaf physiology, fruit yield and albinism incidence in 'Sweet Charlie' strawberry (*Fragaria x ananassa* Duch). *Fruits*, **63**: 103 – 110.
39. Sharma, R. R., **Dinesh Singh** and Rajbir Singh (2009). Studies on transportation losses and quality parameters in apple packed in different containers. *Indian J. Hort.* 66 (2): 245 – 248.
40. **Dinesh Singh** and R. R. Sharma (2009). Post harvest behaviour of peaches (*Prunus persica*) pre- treated with antagonist *Debaryomyces hansenii* and calcium chloride. *Indian J. of Agril. Sciences* 79 (9): 674- 678.
41**. Dinesh Singh**, Sharma, R. R., Samuel, D. V. K. and R. K. Pal (2009). Enhancing the bio- efficacy of *Debaryomyces hansenii* with sodium salts for reducing the blue mould rot in apples. *Indian Phytopath*. 62 (4): 478- 483.
42. Singh, D.B., **Singh, D.** and Sharma, R.R. (2009). Studies on suitability of low chilling peach cultivars for irrigated arid ecosystem. *The Asian J. Hort*., **4** (1): 44-46.
43. **Dinesh Singh**, Gautam Mondal and R. R. Sharma (2009). Effect of individual shrink wrapping on spoilage and quality of peaches during storage. J. of Agril. Engineering 46 (2) (April – June: 22- 25.
44. Sharma, R. R., Dinesh Singh and Rajbir Singh (2009). Biological control of postharvest diseases of fruits and vegetables by microbial antagonists: A review. Biological Control **50**: 205- 221.
45. Sharma, R. R. and **Dinesh Singh** (2010). Phenolic content pattern, polyphenol oxidase and lipoxygenase activity in relation to Albinism, fruit malformation and nubbins production in strawberry (*Fragaria x ananassa* Duch). *J. Plant Biochemistry & Biotechnology***19** (1) : 67- 72.
46**.** Sharma, R.R., **Singh, D.** (2010). Effect of different packing materials on shelf life and quality of apple during storage. *Indian J Hort*., **67**(1): 94-104.
47. Sharma, R.R., **Singh, D**., Singh, R., Singh, D.B. and Saharan, V.K. (2010). Effect of modified atmospheric packing on the quality and shelf-life of apple (*Malus domestica*). *Indian J Agric. Sci*., **80** (3):222-226.
48. Sharma, R.R., R. K. Pal, **Singh, D**., D. V. K. Samuel, A. Kar, and R. Asrey (2010). Storage life and fruit quality of individually shrink wrapped apples (*Malus domestica*) in zero energy cool chamber. *Indian J Agric. Sci*., **80** (4): 338- 341.
49. Sushil, K. Singh, Ramesh Chand, **Dinesh Singh** and D. Kumar (2010). Comparative study of leaf spot and leaf blight symptoms of *Xanthomonas campestris* pv. *parthenii* on Parthenium. *Ann. Pl. Protec. Sci*. 18 (1): 184 – 187.
50. **Dinesh Singh**, Shri Dhar and D. K. Yadav (2010). Effect of endophytic bacterial antagonists against black rot disease of cauliflower caused by

Xanthomonas campestris pv. *campestris. Indian Phytopathology* **63** (2): 122 – 126

51. **Dinesh Singh**, Sinha, S., Yadav, D. K., Sharma, J. P., Srivastava, D. K., Lal, H. C., Mondal, K. K., Jaiswal, R. K. (2010). Characterization of biovar/ races of *Ralstonia solanacearum*,the incitant of bacterial wilt in solanaceous crops . *Indian Phytopath***63** (3): 261 - 265.
52. Singh D and Shri Dhar, 2011. Bio-PCR based diagnosis of *Xanthomonas campestris* pathovars in black rot infected leaves of crucifers. *Indian Phytopathology***64** (1):7-11.
53. **Dinesh Singh** and R. R. Sharma (2011).Beneficial effects of pre-harvest carbendazim and calcium nitrate sprays in kinnow (*Citrus nobilis* × *C. deliciosa*) storage. *Indian J. of Agril. Sciences* 81(5): 470- 472.
54. Sharma, R.R., R. K. Pal, **Singh, D**., D. V. K. Samuel, S. Sethi and A. Kumar (2011). Evaluation of heat shrinkable films for shelf life, and quality of individually wrapped Royal Delicious apples under ambient conditions. *J. Food Sciences & Technol*. DOI: 10.1007 /s13197- 011-0332-1.
55. Dinesh Singh**,** Dhar, S and Yadava, D. K. (2011). Genetic and Pathogenic Variability of Indian Strains of *Xanthomonas campestris* pv. *campestris* causing Black Rot Disease in Crucifers. *Curr. Microbiol*. **63**:551-60.
56. **Dinesh Singh**, D. K. Yadav, Shweta Singha and B. K. Upadhyay (2012). Utilization of plant growth promoting *Bacillus subtilis* isolates for the management of bacterial wilt incidence in tomato caused by *Ralstonia solanacearum* race 1 biovar3. *Indian Phytopath.* **65 (1**): 18-24.
57. Ram Asrey, C. Sashikala and **Dinesh Singh** (2012). Combinational impact of *Debaryomyces hansenii* bioagents and 1- methylecyclopropen (1-MCP) on shelf life and quality attributes of kinnow mandarin. *Hortflora Research Spectrum* 1 (2): 1003 -1009
58. Sharma, R. R., R. K. PAL**, D. Singh**, J. Singh, M. R. Dhiman and M. R. Rana (2012). Relationships between storage disorders and fruit calcium contents, lipoxygenase activity, and rates of ethylene evolution and respiration in 'Royal Delicious' apple (*Malus _ domestica* Borkh.). *J. ofHorticultural Science and Biotechnology***87:** (4): 367 – 373.
59. Mondal K. K., T. P. Rajendran, C. Phaneendra, C. Mani, J. Sharma, Richa Sharma, Pooja, Geeta Verma, R. Kumar, **D. Singh**, A. Kumar, A. K. Saxena and R. K. Jain (2012). The reliable and rapid polymerase chain reaction (PCR) diagnosis for *Xanthomonas axonopodis* pv. *punicae* in pomegranate. African J. of Microbiology Research 6 (30) 5950- 5956.
60. **Dinesh Singh**, D. K. Yadav, Shweta Sinha and Harshita Singh (2012). Effect of safe chemicals and bleaching powder on bacterial wilt incidence in tomato caused by *Ralstonia solanacearum* race 1 bv. 3. *Ann. Plant. Protec. Sci*.**20** (2): 426 – 429.
61. Anupama Gupta, A. K. Gupta, Rishi Mahajan, **Dinesh Singh**, Kishore Khosla, Rup Lal and Varsha Gupta (2012). Protocol for isolation and identification of *Agrobacterium* isolates from stone fruit plants and sensitivity of native *A. tumefaciens* isolates against agrocin produced by *A. radiobacter* strain K84. *Natl. Acad. Sci. Lett*. DOI 10.1007/s40009-012-0094-y
62. Raghavendra, B. T., **Dinesh Singh**, D. K. Yadav, Kalyan K. Mondal and Pratibha Sharma (2012). Virulence analysis and genetic diversity of *Xanthomonas campestris* pv. c*ampestris* causing blasck rot of crucifers. *Archives of Phytopathology and Plant Protection*. http:// dx. doi. org /10.1080/03235408.2012.737723
63. Raghavendra, B. T., **Dinesh Singh**, H. Rajshekara, Shweta Sinha, D. K. Yadav, P. S. Rathaur and Manjunatha, C. (2012). ERIC –PCR generated fingerprinting of *Xanthomonas campestris* pv. *campestris* causing black rot of crucifers. *Environment and Ecology* 31 (1A): 338 – 341.

64. Sharma,R. R., **D. Singh** and R. K. Pal (2013). Synergistic influence of pre-harvest calcium sprays and postharvest hot water treatment on fruit firmness, decay, bitter pit incidence and postharvest quality of royal Delicious apples (*Malus x domestica* Borkh). *American Journal of Plant Sciences*, 2013 (4): 153-159.
65. **Dinesh Singh**, D. K. Yadav, Shweta Sinha, K. K. Mondal, Gita Singh, R. R. Pandey, andRajender Singh (2013). Genetic diversity of iturin producing strains of *Bacillus* species antagonistic to *Ralstonia solanacerarum*causingbacterial wilt disease in tomato. *African Journal of Microbiology Research*, 7(48): 5459-5470.
66. **Dinesh Singh**, D.K. Yadav, Shweta Sinha, and Garima Choudhary (2013). Effect of temperature, cultivars, injury of root and inoculums load of *Ralstonia solanacearum* to cause bacterial wilt of tomato. Archives of Phytopathology and Plant Protection, http://dx.doi.org/ 10.1080/03235408.2013.851332.
67. Raghavendra, B. T., **Dinesh Singh**, D. K. Yadava, Kalyan K. Mondal and Pratibha Sharma (2013). Pathogenic variability and genetic diversity using BOX -PCR of *Xanthomonas campestris* pv. *campestris* isolated from cole crops. *Indian Journal of Agricultural Sciences* 83(10): 1090–1094.
68. Jameel Jhalegar, M. D., R. R. Sharma and Dinesh Singh (2014). In vitro and in vivo activity of essential oils against major postharvest pathogens of Kinnow (*Citrus nobilis*×*C. deliciosa*) mandarin. *J Food Sci Technol*. DOI 10.1007/s13197-014-1281-2
69. **Dinesh Singh**, Shweta Sinha, Garima Chaudhary, D K Yadav and K K Mondal (2014). Genetic diversity of biovar 3 and 4 of *Ralstonia solanacearum* causing bacterial wilt of tomato using BOX- PCR, RAPD and hrp gene sequences. *Indian Journal of Agricultural Sciences***84**(3): 391–395.
70. **Singh, D.,** Raghavendra, B.T., Singh Rathaur, P., Singh, H., Raghuwanshi, R. and Singh, R. P. (2014). Detection of black rot disease causing pathogen *Xanthomonas campestris* pv. *campestris* by bio-PCR from seeds and plant parts of cole crops. *Seed Sci. & Technol*., 42, 36-46, http://doi.org/10.15258/sst.2014.42.1.04
71. Md. Jameel JHALEGAR, Ram Roshan Sharma and **Dinesh Singh** (2014). Antifungal efficacy of botanicals against major postharvest pathogens of Kinnow mandarin and their use to maintain postharvest quality. *Fruits*, 69: 223–237
72. **Singh, D.,** Shweta Sinha, D. K. Yadav and Garima Chaudhary (2014). Detection of *Ralstonia solanacearum* from asymptomatic tomato plants, irrigation water, and soil through non-selective enrichment medium with *hrp* gene-based bio-PCR. *Curr Microbiol*. 69 (2): 127- 134.
73. Shri Dhar and Dinesh Singh (2014). Performance of cauliflower genotypes for yield and resistance against black rot (*Xanthomonas campestris* pv. *campestris*). *Indian J. Hort. 71(2*): 197-201.
74. Dey, S. S.,Kanika Sharma, Bhatia, R., Sandeep Kumar, G. M., **Dinesh Singh**, Raj Kumar,Chander Parkash (2015). Inter specific hybridization (*Brassica carinata x Brassica oleracea*) for introgression of black rot resistance genes into Indian cauliflower (*B. oleracea* var.*botrytis*L.).*Euphytica*,DOI 10.1007/s10681-015-1352-0•
75. Narayana Bhat, M., H.R. Sardana, **Dinesh Singh**, Chitra Srivastava and Mobin Ahmad (2015). Evaluation of chemicals and bioagents against *Sclerotium rolfsii* causing southern blight of bell pepper (*Capsicum annuum*). *Indian Phytopath.* 68 (1): 97-100.
76.Dinesh Singh, Shweta Sinha and Ravinder Pal Singh (2015). Detection of *Xanthomonas oryzae* pv. *oryzae* from seeds and leaves of rice (*Oryza sativa*) using hrp gene based BIO-PCR marker. *Indian Journal of Agricultural Sciences* 85 (4): 519–524.
77. Narayana Bhat M, **Dinesh Singh**, H R Sardana, S Vennila and Mobin Ahmad (2015). Occurrence and bio-control of stem canker and black scurf (*Rhizoctonia solani*) of potato (*Solanum tuberosum*) in subtropical plains of India. *Indian Journal of Agricultural Sciences* 85(5): 730–733.

78. Partha Saha, Pritam Kalia, Munish Sharma, **Dinesh Singh** (2015). New source of black rot disease resistance in *Brassica oleracea* and genetic analysis of resistance. *Euphytica* DOI 10.1007/s10681-015-1524-y
79. **Dinesh Singh**, Priyanka Singh Rathaur, Ashwariya Singh, and Richa Raghuwanshi (2015). Genetic diversity of *Xanthomonas campestris* pv. *campestris* isolated from *Brassica* crops using RAPD and Rep-PCR.*Indian Journal of Agricultural Sciences***85**(6): 792–796.
80. Gupta, A.K., Aditi Sharma, **Dinesh Singh**, Sunita Chandel, R.C. Sharma, Rishi Mahajan, and Anupama Guptao (2015). Occurrence of crown gall caused by *Agrobacterium tumefaciens* on rose. *Indian Phytopath*.**68** (2): 229-230.
81. Saha, N D, Chaudhary, A., · Singh, S D., · **Singh, D**., Walia, S and Das, T K. (2015). Plant Pathogenic Microbial Communication Affected by Elevated Temperature in *Pectobacterium carotovorum* subsp. *carotovorum.Current Microbiology*, 71(5). DOI:10.1007/s00284-015-0888-5
82. Priyanka Singh Rathaur, **Dinesh Singh**, Richa Raghuwanshi and Yadava DK (20015). Pathogenic and genetic characterization of *Xanthomonas campestris pv.campestris* races based on Rep-PCR and multilocus sequence analysis.*J Plant Pathol Microbiol*,**6**: 317. doi:10.4172/2157-7471.1000317.
83. Ranjan R. K., **Dinesh Singh**, Sharma, P. and Shri dhar (2015). Characterization and genetic diversity of *Ralstonia solanacearum* causing brown rot disease of potato. *Indian Phytopath*. **68** (4): 368-374.
84. Ranjan R. K. and **Dinesh Singh** (2015). Occurrence of biovars, races and phylotying of *Ralstonia solanacearum* causing brown rot disease of potato under different agro-climatic conditions. *J. of Pure and Applied Microbiology*, 9 (4): 2931- 2941.
85. **Singh, D**., Priyanka, P. S and Vicente, J. G. (2016). Characterization, genetic diversity and distribution of *Xanthomonas campestris* pv. *campestris* races causing black rot disease in cruciferous crops. *Plant Pathol*.,64 (5) 1029- 1040. DOI: 10.1111/ppa.12508.
86. **Singh D**, Yadav DK, Chaudhary G, Rana VS, Sharma RK (2016) Potential of *Bacillus amyloliquefaciens* for biocontrol of bacterial wilt of tomato incited by *Ralstonia solanacearum*. *J. Plant Pathol Microbiol***7**: 327. doi:10.4172/2157-7471.1000327
87. Sharma BB, Kalia P, Yadava DK, **Singh D,** Sharma TR (2016) Genetics and molecular mapping of black rot resistance LocusXca1bcon chromosome B-7 in Ethiopian mustard (*Brassica carinata* A. Braun). *PLoS ONE* 11(3): e0152290. doi:10.1371/journal.pone .0152290
88. Neha Gupta, Monika Shukla Bajpai, Rita Singh Majumdar and **Dinesh Singh** (2016). Effect of exogenous iodine on enhancement of oxidative stress in soybean (*Glycine max*) plant and partial expression of 1-Cys peroxiredoxin gene under heat-stress conditions. *Indian Journal of Agricultural Sciences* **86** (5): 686–690.
89. Bhat Narayana M., Raghavendra Mesta, S.T. Yenjerappa, M.H. Tatagar, H.R. Sardana,**Dinesh Singh**, S. Vennila, N. Sabir and Mobin Ahmad (2016). Biological control of *Fusarium* wilt of chillies using *Trichoderma* spp. *Indian J. Hort.* **73**(1), 74-77.
90. Priyanka Singh Rathaur, **Dinesh Singh** and Richa Raghuwanshi (2016). Characterization and genetic diversity of *Xanthomonas campestris* pv. *campestris* causing black rot disease in crucifers in North India.*Indian Phytopath*. **69** (2): 114-118.
91. Sharma, J. P., Kumar, S. and **Dinesh Singh** (2016). Integrated management of bacterial wilt of tomato caused by *Ralstonia solanacearum*. *Indian J. Agricultural Sciences* **86** (7): 956–960.
92. Ranjan, R. K., **Dinesh Singh** and V. K. Baranwa (2016). Simultaneous detection of brown rot- and soft rot-causing bacterial pathogens from potato tubers through multiplex PCR.Curr. Microbiol. OI 10.1007/s00284-016-1110-0.
93. Aditi Sharma, A.K. Gupta, **Dinesh Singh**, Kishore Khosla and Rishi Mahajan (2016). Biological control of crown gall disease in peach and cherry nursery plants by white stone powder based formulation (Sol Gall) of *Brevibacillus* spp. *Indian Phytopath*. **69** (3) : 231-236.
94. Priyanka Singh Rathaur , **Dinesh Singh** and Richa Raghuwanshi (2016). Standardization of Indian cultivars of *Brassica* spp. for characterization

of *Xanthomonas campestris* pv. *campestris* races causing black rot disease of crucifer crops. *Indian Journal of Agricultural Sciences* 86 (12): 31-36.

95. Sharma, B. B. Pritam Kalia, **Dinesh Singh** and D.K. Yadav (2016). Evaluation of crucifer germplasm for black rot (*Xanthomonas campestris* pv. *campestris*) resistance. *Indian J. Hort.* **73**(4): 511-517.
96. Raghavendra, B.T. and **Dinesh Singh**.(2016). Hypersensitive response and pathogenicity gene based molecular detection of *Xanthomonas campestris* pv. *campestris* causing black rot disease in cabbage. *Indian Phytopath.* **69** (4s): 76-79.
97. Namita Das Saha, Anita Chaudhary, Shiv Dhar Singh, Suresh Walia, Tapas Kumar Das, **Dinesh Singh**, Arpan Bhowmik, And Bishal Gurung (2016). Climate change variables induced soft rot causing plantpathogen to produce new quorum sensing (cell to cell communication) signal for enhanced pathogenesis. *Indian Phytopath*. **69** (4s): 248-251.
98. Ranjan, R. K. and **Dinesh Singh** (2016). Effect of storage temperature on survival, transmission of *Ralstonia solanacearum* and quality of potato tubers during storage. *Indian Phytopath*. **69** (4s): 294-298.
99. Dhananjay Kumar Yadav, **Dinesh Singh**, Narendra Kumar and Garima Chaudhary (2016). Induction of defense-related enzymes by *Bacillus amyloliquefaciens* DSBA-11 against bacterial wilt disease in tomato caused by *Ralstonia solanacearum. Indian Phytopath*. **69** (4s): 412-414.
100. Raghavendra, B. T ., **Dinesh Singh** and D. K. Yadav (2017). β-amino butyric acid as novel defense activator against *Xanthpmonas campestris* pv. *campestris* causing black rot of cabbage.*Environment & Ecology* 35 (2A): 945—948.
101. Sharma, Brij B., Pritam Kalia, **Dinesh Singh** and Tilak R. Sharma (2017). Introgression of Black Rot Resistance from *Brassica carinata* to Cauliflower (Brassica oleracea botrytis Group) through Embryo Rescue. *Frontiers in Plant Science.***8**: doi: 10.3389/fpls.2017.01255.
102. **Singh Dinesh** (2017). Bacterial wilt of solanaceous crops: Diagnosis, diversity and management. *Indian Phytopath.* 70 (2): 151-163. DOI 10.24838/ip.2017.v70.i2.70607
103. Yadav DK, **Dinesh Singh** and Kumar N (2017).Induction of defense-related enzymes by *Bacillus amyloliquefaciens* DSBA-11 in resistant and susceptible cultivars of tomato against bacterial wilt disease**.***Inter. J. Agric. Res.* **12** (4): 172-180
104. Raghavendra B.T. and Dinesh Singh (2017). Effect of β-amino butyric acid in induction of resistance against Xanthomonas campestris pv. campestris in cabbage. Indian Phytopath. 70 (3): 384-387.
105. Gopi Kishan, Rahul Tiwari, G. Prakash, **Dinesh Singh** and Pratibha Sharma (2017). Factors affecting mycoparasitism of *Sclerotinia sclerotiorum* by *Trichoderma* spp. *Indian Phytopath.***70** (3)**:** 397-399.
106. **Dinesh Singh**, Garima Chaudhary and D K Yadav (2017). Genetic diversity of Indian isolates of *Ralstonia solanacearum* causing bacterial wilt of eggplant (*Solanum melongena*). *Indian Journal of Agricultural Sciences* **87** (11): 1466–1475.
107. Barman, K., Asrey, R., **Singh, D**., Patel, V.B., Sharma, S. (2017). Effect of *Pseudomonas fluorescens* formulations on decay and quality of mango (*Mangifera indica*) fruits during storage. *Indian Journal of Agricultural Sciences* 87 (9): 1214–1218.
108. Ramyashreedevi G S, **Dinesh Singh**, Arpita Srivastava, K K Biswas and A K Gupta (2017). Characterization of *Xanthomonas* species causing bacterial leaf spot disease of pepper (*Capsicum annuum*) in India. Indian J Agri Sci87 (12): 1679–1686.
109.**DineshSingh**, D.K. Yadav and Shweta Sinha (2017). Improvement of bio-efficacy of bacterial antagonists by using bleaching powder and resistant cultivars to control bacterial wilt of tomato. *Indian J. Hort.* 74(4): 552-556.
110. Pushpendra Kumar, Shruti Sethi, R. R. Sharma, Manish Srivastav, **Dinesh Singh**, Eldho Varghese (2018). Edible coatings influence the cold-storage life and quality of 'Santa Rosa' plum (Prunus salicina Lindell). J. Food Sci. Technol.https://doi.org/10.1007/s13197-018-3130-1

111. **Dinesh Singh**, Garima Chaudhary and D. K. Yadav (2018): Characterisation and diversity of Indian isolates of Ralstonia solanacearum causing bacterial wilt of Capsicum annuum L. Archives of Phytopathology and Plant Protection, DOI: 10.1080/03235408.2018.1467620.
112. Raj Kiran, R. Kandan, P. Kumar,**Dinesh Singh**, Jameel Akhtar, Baleshwar Singh and S. C. Dubey (2019). Development of seicifc- specific primers for detection of Xanthomonas camptestris pv. campestris causing black rot of crucifers. J. Environmental Biology, 40 (1):105-110. 40(1): 105-110
113. Gajanan Gundewadia, Dhruba Jyoti Sarkarb, Shalini Gaur Rudraa and **Dinesh Singh** (2018). Preparation of basil oil nanoemulsion using Sapindus mukorossi pericarp extract: Physico-chemical properties and antifungal activity against food spoilage pathogens. *Industrial Crops & Products* 125: 95–104 (NAAS: I104 -9.18).
114. Gajanan Gundewadia, Shalini Gaur Rudraa, Dhruba Jyoti Sarkarb and **Dinesh Singh** (2018). Nanoemulsion based alginate organic coating for shelf life extension of okra. *Food Packaging and Shelf Life* 18 (2018) 1–12 (Impact Factor: **3.347)**
115. **Dinesh Singh**, Shweta Sinha, Garima Chaudhary and Yadav DK (2018). Biological characterization and genetic diversity of Indian strains of *Ralstonia solanacearum* biovars 3 and 4 causing bacterial wilt of tomato. *J Plant Pathol Microbiol* 9(7): 443. DOI: 10.4172/2157-7471.1000443.
116. Gayatri Biswal, **Dinesh Singh** and N. K. Dhal (2018). Synnergistic effect of *Bacillus subtilis* and boric acid on management of bacterial wilt disease of potato caused by *Ralstonia solanacearum* in coastal plains of Odisha under field conditions. *Indian Phytopath*. 71: 431- 434.
117. Swarajya Laxmi Nayak, Shruti Sethi, R. R. Sharma, R. M. Sharma, Surender Singh and **Dinesh Singh** (2020). Aqueous ozone controls decay and maintains quality attributes of strawberry (*Fragaria ananassa* Duch.). *J Food Sci Technol*57(1), 319-326.
118. Swarajya Laxmi Nayak, Shruti Sethi, R.R. Sharma, **Dinesh Singh** and Surender Singh (2019). Improved control on decay and postharvest quality deterioration of strawberry by microbial antagonists. *Indian J. Hort.* 76(3): 502-507.
119. Dhananjay Kumar Yadav, **Dinesh Singh** and Narendra Kumar (2019). Simultaneous growth promoting and managing bacterial wilt of tomato through *Bacillus amyloliquefaciens*. Indian Journal of Agricultural Sciences 89 (12): 2025–31.
120. Sunkad, G., Deepa, H., Sruthi, T. H. and **D. Singh** (2019). Chickpea wilt: status, diagnosis and management. Indian Phytopah. 72 (4): 619- 628.
121. Ranjan RK and **Dinesh Singh** (2020). Detection and quantification of *Ralstonia solanacearum* through conventional and molecular techniques and spoilage in stored potato at different temperatures during storage. J. Pharmaco and Phytochem. 9(2):1103-1109.
122. Surbhi Gupta, Nidhi Didwania and **Dinesh Singh** (2020). Biological control of mustard blight caused by Alternaria brassicaeusingplant growth promoting bacteria. Current Plant Biology. https://doi.org/10.1016/j.cpb.2020.100166. IF: 2.53.
123. **Dinesh Singh,** D. K. Yadav and Farhat Fatima (2020).Characterization and genetic diversity of *Pantoea agglomerans* isolates having dual potentiality to suppress growth of *Ralstonia solanacearum* and plant growth promoting ability.Indian Phytopath **73**, 643–653. https://doi.org/10.1007/s42360-020-00268-1.
124. Ranjan RK and **Dinesh Singh** (2020). Effect of temperature and inoculums level on development of soft rot of potato caused by *Erwinia carotovora* subsp. *carotovora* and their molecular detection through poymearse chain reaction J. Pharmaco and Phytochem. 9(4):1414-1419.
125. Abhijeet Shankar Kashyap, **Dinesh Singh**, Amit Kumar Kesharwani and Ravinder Pal Singh (2020). Characterization of Plant Growth-Promoting Rhizobacteria Isolated from Chilli Rhizosphere of Southern Plateau and Hills Region. Int.J.Curr.Microbiol. App.Sci. 9(08): 3473-3483. doi: https://doi.org/10.20546/ijcmas.2020.908.402.
126. Priyanka Sahu, Anuradha Chug, Amit Prakash Singh, **Dinesh Singh**, Ravinder Pal Singh, (2020). *Implementation of CNNs for Crop Diseases*

Classification: A Comparison of Pre-trained Model and Training from Scratch, International Journal of Computer Science and Network security, 20:10, 206-215. (**ESCI Indexed, Published: October 2020**).

127. Priyanka Sahu, Anuradha Chug, Amit Prakash Singh, **Dinesh Singh**, Ravinder Pal Singh (2021), Deep Learning Models for Beans Crop Diseases: Classification and Visualization Techniques.International Journal of Modern Agriculture. 10 (1): 206-215. (IF 0.12 / 2021)
128. Kanchan, A., **Singh, D.** and Tiwari, A. (2018). Identification of beneficial endophytes against black rot disease in cauliflower by using fame analysis. Global Journal For Research Analysis, 7 (8): 513- 515.
129. Kanchan, A., **Singh, D**., Tiwari, A. and Kumar, K. (2018). Identification of Beneficial Endophytes Which Helps in Suppressing Black Rot Disease in Cauliflower, Int. J. Pure App. Biosci. 6(5): 1147-1156. doi: http://dx.doi.org/10.18782/2320-7051.6921.
130. Reeta Bhatia, Kanika Sharma, Chander Parkash, Achintya Pramanik, **Dinesh Singh**, Saurabh Singh, Raj Kumar, S. S. Dey (2021). Microspore derived population developed from an inter-specifc hybrid (*Brassica oleracea* × *B. carinata*) through a modifed protocol provides insight into B genome derived black rot resistance and inter-genomic interaction. Plant Cell, Tissue and Organ Culture (PCTOC) https://doi.org/10.1007/s11240-021-02018-1. IF: 2.329 (2019).
131. Biswal G, **Singh D** (2021) Eco-friendly Management of Fungal Wilt of Tomato Caused by *Fusarium oxysporum* f. sp. *lycopersici*. *J Plant Pathol Microbiol* 12:529.
132. Garima Chaudhary, **Dinesh Singh** and Manju Sharma (2021). Induction of Defense Related Enzymes by β-aminobutyric Acid against *Ralstonia solanacearum* in Resistant and Susceptible Cultivars of Tomato. Int.J.Curr. Microbiol. App. Sci 10(02): 0.20546 /ijcmas. 2021.1002
133. **Dinesh Singh** and R. P. Singh (2021). Rhizobacteria mediated improvement of soil and plant health. *J. Mycopathol. Res*. **59(1)**: 11-21.
134. **Singh, D.,** Chaudhary, G. and Yadav, D.K. (2021). Characterization and diversity of Indian isolates of *Ralstonia solanacearum* inciting bacterial wilt of tomato. *Indian Phytopathology* 74 (2): 424- 429. https://doi.org/10.1007/s42360-021-00365-9.
135. **Dinesh Singh** and Amit Kumar Kesharwani (2021). Biological control of bacterial wilt of solanaceous vegetable crops – A review. Agric Res J 58 (1): 1-17.
136. Garima Chaudhary, **D. Singh** and Manju Sharma (2021). Effect of chemical elicitors on the differential expression pattern of PR genes in susceptible and resistant cultivars of tomato against bacterial wilt disease caused by *Ralstonia solanacearum*. Physiological and Molecular Plant Pathology. 116. https://doi.org/10.1016/j.pmpp.2021.101689
137. Anshul Bhatia, Anuradha Chug, Amit Prakash Singh, Ravinder Pal Singh and **Dinesh Singh** (2021). A machine learning-based spray prediction model for tomato powdery mildew disease. *Indian Phytopathology*https://doi.org/10.1007/s42360-021-00430-3.
138. Abhijeet Shankar Kashyap, Nazia Manzar, Mahendra Vikram Singh Rajawat, Amit Kumar Kesharwani, Ravinder Pal Singh, S. C. Dubey, Debasis Pattanayak, Shri Dhar, S. K. Lal and **Dinesh Singh** (2021). Screening and biocontrol potential of rhizobacteria native to gangetic plains and hilly regions to induce systemicresistance and promote plant growth in chilli against bacterial wilt disease. *Plants*, **10,** 2125. https://doi.org/10.3390/ plants10102125.
139. Shradha Verma, Anuradha Chug, Ravinder P. Singh, Amit P. Singh, **Dinesh Singh** (2022) SE-CapsNet: Automated evaluation of plant disease severity based on feature extraction through Squeeze and Excitation (SE) networks and Capsule networks. *Kuwait J. Sci*,**49** (1), 1-31. **(IF: 0.948).**
140. Sharma, BB, Pritam Kalia, Shrawan Singh, **Dinesh Singh** and Bhopal Singh Tomar. (2021). Race –specifc host- plant resistance against black rot (*Xanthomonas campestris* pv. *campestris*) in alien Brassicas. Indian J. Horticulture. 78(4): 357-364.

141. Sowmyashree A, R R Sharma, Shalini G Rudra, Minakshi Grover1, **Dinesh Singh**and Raju Kumar (2021). Edible coatings and plant extract influence decay and biochemical attributes of nectarines. *Indian Journal of Agricultural Sciences* 91 (2): 240–3,
142. **Dinesh Singh**, Dhananajay Kumar Yadav, Harender Kumar Sharma and Garima (2021). Chaudhary[1]Improvement of Bio-Efficacy to Reduce Bacterial Wilt Complex Disease in Tomatoes through *Bacillus amyloliquefaciens* and *Pseudomonas fluorescens* under Field Conditions. Journal of Agricultural Science and Technology B 11 (2021) 109-120. doi: 10.17265/2161-6264/2021.03.00 (IF : 1.098).
143. Bhatia, A., Chug, A., Singh, A.P., R. P. Singh, and **Dinesh Singh** (2022). A machine learning-based spray prediction model for tomato powdery mildew disease. *Indian Phytopathology* 75 (1): 225–230 (2022). https://doi.org/10.1007/s42360-021-00430-3

144. Rajender Jatoth, **Dinesh Singh**, Neelam Geat, P. Lokesh Babu and Amit Kumar Kesharwani (2022). Distribution of bacterial stalk rot disease of maize in India and identifcation of causal agent using biochemical and fliC gene based marker and its sensitivity against chemicals and bacterial antagonist. Indian Phytopathology https://doi.org/10.1007/s42360-021-00455-8.
145. Narendra K. Bairwa, Prashant Jamulkar, V. Sushmitha, Meenakshi Arya, N. Manjunatha, Ruchira Bajpai, Dinesh Singh, Chandra Mani, Shailendra Kumar, Sushil. K. Chaturvedi, and Dilip Lakshman (2022). Evaluation of fungicides and bacterial antagonists for management of *Corynespora* leaf spot on mungbean (*Vigna radiata* L. Wilczek). Archives of Phytopathology and Plant Protection 55 (4): 433-453. https://doi.org/10.1080/03235408.2022.2025686,
146. Sunitha Pola, Amit Kumar Kesharwani, Jyoti Singh, **Dinesh Singh**, Vinay Kumari Kalia (2022). Endophytic ability of indigenous *Bacillus thuringiensis* strain vkk-bb2: new horizons for the development of novel insect pest-resistant crops. Egyptian Journal of Biological Pest Control. 32:8 https://doi.org/10.1186/s41938-022-00512-y (**NAAS: 8.00)**
147. Manish Kumar Maurya, Vikash Kumar Yadav, S. P. Singh, R. Jatoth, H. K. Singh and **Dinesh Singh**(2022). Impact of Climate Change on Diseases of Crops and their Management- A Review. Journal of Agricultural Science and Technology A&B. 12: (1B): 1-15. doi: 10.17265/2161-6264/2022.01.001.
148. Anshul Bhatia, Anuradha Chug, Amit Prakash Singh and **Dinesh Singh** (2022). Fractional Mega Trend Diffusion Function-based Feature Extraction for Plant Disease Prediction". International Journal of Machine Learning and Cybernetics. https:/doi.org/10.1007/s13042-022-01562-2. **(NAAS: 10.12).**
149. **Dinesh Singh**, Amit Kumar Kesharwani, Kalpana Singh, Sarika Jaiswal, Mir Asif Iqualbal, Neelam Geat and Anupama S. Awasthi (2022). Whole genome sequence resource of Indian race 4 of *Xanthomonas campestris* pv. *campestris*, the causal agent of black rot disease of *Brassica oleracea* var. *capitata* L." Plant Disease. https://doi.org/10.1094/PDIS-10-21-2217-A**(NAAS: 10.44)**
150. Abhijeet Shankar Kashyap, Nazia Manzar, Mahendra Vikram Singh Rajawat, Manmohan Deo, Jyoti Prakash Singh, Amit Kumar Kesharwani, Ravinder Pal Singh, S. C. Dubey and **Dinesh Singh** (2022). Unravelling microbial volatile elicitors using a transparent methodology for induction of systemic resistance and regulation antioxidant genes at expression level in chilli against bacterial wilt disease. *Antioxidants*. 11: 404. https://doi. org /10.3390/antiox**11020404. (NAAS: 12.31)**
151. Amit Kumar Kesharwani, **Dinesh Singh**, Aditya Kulshreshtha, Abhijeet Shankar Kashyap, Anupama Sharma Avasth (2022). Black rot disease incited by Indian race 1 of *Xanthomonas campestris* pv. *campestris* in *Brassica juncea* L. cv. Pusa Bold in India. *Plant Disease***. 107:** DOI: 10.1094/PDIS-04-22-0738-PDN. **(NAAS: 10.44)**

152. Anuradha Chug, Anshul Bhatia, Amit Prakash Singh and **Dinesh Singh (2022).** A novel framework for image-based plant disease detection using hybrid deep learning approach. *Soft Computing.*https://doi.org/10.1007/s00500-022-07177-7 **(NAAS: 9.64).**

153. Neelam Geat and Dinesh Singh (2022). Efficacy evaluation of abiotic elicitors for the management of black rot disease of cauliflower incited by *Xanthomonas campestris* pv. *campestris. International J. Environment and Climate Change.* 1210: 1023-1030 **(NAAS: 5.13).**

154. Anshul Bhatia, Anshul Bhatia, Amit Prakash Singh and **Dinesh Singh** (2022). Hybrid approach for noise reduction-based optimal classifier using genetic algorithm: A case study in plant disease prediction. Intelligent Data Analysis 26: 1023–1049. DOI 10.3233/IDA-216011 **(NAAS: 7.30).**

155. Raj Kumar, Anuradha Chug, Amit Prakash Singh and Dinesh Singh (2022). A Systematic Analysis of Machine Learning and Deep Learning Based Approaches for Plant Leaf Disease Classification: A Review. Journal of Sensors 2022, ID 3287561, 13 https://doi.org/10.1155/2022/3287561**(NAAS: 8.336).**

156. Gupta, Surbhi, Didwania, Nidhi, **Singh, Dinesh**, Chowluru, Srinivasa Nagappa (2022). Microbial consortium: an eco-friendly approach against *Alternaria brassicae* in Indian mustard. *Indian Phytopathology* (2022). https://doi.org/10.1007/s42360-022-00521-9. **(NAAS: 5.95).**

157. Venkatesh,M. G., Atul Kumar, Sandeep Kumar Lal, Bishnu Maya Bashya, Prolay Kumar Bhowmick, S. C. Dubey, Dinesh Singh, Nagamani Sandra, and Shaily Javeria (2022). Morpho-pathological characterization of *Sarocladium oryzae* causing sheath rot in paddy. *Indian Phytopathology* https://doi.org/10.1007/s42360-022-00522-8. **NAAS: 5.95).**

158. Krishna Sharma, Sonal Sharma, Anukool Vaishnav, Rahul Jain, Dinesh Singh, Harikesh Bahadur Singh, Anjana Goel, Shoorvir Singh. (2022). Salt tolerant PGPR strain *Priestia endophytica* SK1 promotes Fenugreek growth under salt stress by inducing nitrogen assimilation and secondary metabolites. *J. Applied Microbiology*,**https://doi.org/10.1111/jam.15735(NAAS: 10.06).**

159. Priyanka Sahu, Amit Prakash Singh, , Anuradha Chug, **Dinesh Singh** (2022). A Systematic Literature Review of Machine Learning Techniques Deployed in Agriculture: A Case Study of Banana Crop. AEEE 10: 87333-87359 **(NAAS: 10.06).**

160. Manish Kumar Maurya, H K Singh, S K Singh and **Dinesh Singh** (2022). Management of black rot disease of rapeseed (*Brassica napus*)-Indian mustard (*Brassica juncea*) caused by *Xanthomonas campestris* pv. *campestris.Indian J. Agricultural Sciences* 92 (8): 1033–1037. **(NAAS: 6.32).**

161. Prasad, K., Sharma, R. R., Ram Asrey, Shruti Sethi, Manish Srivastav, Dinesh Singh, Ajay Arora (2022). Hydrocolloid edible coatings extend shelf life, reduce postharvest decay and maintain keeping quality of mango fruits (Mangifera indica L.) under ambient storage. Journal of Food Biochemistry 46 (12). https://doi.org/10.1111/jfbc.14481**(NAAS: 8.72).**

162. **Dinesh Singh**, Venkatesh Devappa, Dhananjay Kumar Yadav (2022). Suppression of tomato bacterial wilt incited by *Ralstonia pseudosolanacearum* using polyketide antibiotic-producing *Bacillus* spp. isolated from rhizospheric soil. *Agriculture.* 2022. 12, 2009. https://doi.org/10.3390/ agriculture 12122009.**(NAAS: 9.408).**

163. Abhishek Gowda A. P., Pankaj, **Dinesh Singh**, Awani Kumar Singh and R. Sowmya (2022). Nematicidal potential of plant growth promoting rhizobacteria against *Meloidogyne incognita* infesting tomato under protected cultivation. *Egyptian Journal of Biological Pest Control 32:145.* https://doi.org/10.1186/s41938-022-00643-2**. (NAAS: 8.05).**

164. Ashok Kumar Mahawer, R. M. Sharma, A. K. Dubey, O. P. Awasthi, **Dinesh Singh**, Anil Dahuja, S. V. A. C. R. Mitra and Amrender Kumar (2023). Efect of weather parameters and citrus genotypes on the occurrence of citrus canker incited by *Xanthomonas citri* pv. *citri.Indian Phytopathology*, **76:605–613** https://doi.org/10.1007/s42360-023-00606-z. **(NAAS: 5.95).**

165. Ashok Kumar Mahawer , Anil Kumar Dubey , Om Prakash Awasthi , **Dinesh Singh** , Anil Dahuja , Amitha Mithra Sevanthi , Amrender Kumar , Amit Kumar Goswami , Nimisha Sharma , Jagdish Yadav , Amit Kumar Kesharwani , Abhijeet Shankar Kashyap , Aditya Kulshreshtha , Ravinder

Pal Singh , Amrut Morade and Radha Mohan Sharma. (2023). Elucidation of Physio-Biochemical Changes in Citrus spp. Incited by *Xanthomonas citri* pv. *citri.* Horticulturae 2023, 9, 324. https://doi.org/10.3390/ horticulturaeb9030324 **(NAAS: 8.93).**

166. Priyanka Sahu, Anuradha Chug, Amit Prakash Singh and **Dinesh Singh** (2023). Classification of Crop Leaf Diseases using Image to Image Translation with Deep-Dream. *Multimedia Tools and Applications*https://doi.org/10.1007/s11042-023-14994-x**(NAAS: 8.57).**
167. Dwipendra Thakuria, Chayanika Chaliha, Pranab Dutta, Sakshi Sinha, Panchali Uzir, S. Basanta Singh, Samarendra Hazarika, Lingaraj Sahoo, L.L. Kharbikar, **Dinesh Singh** (2023). Citrus Huanglongbing (HLB): Diagnostic and management options. *Physiological and Molecular Plant Pathology*, 125: 102016.https://doi.org/ 10.1016 /j.pmpp.2023.102016. **(NAAS: 8.74).**
168. Hemant Kumar Singh, Bhanu Pratap, S. K. Maheshwari, Ayushi Gupta, Anuradha Chug , Amit Prakash Singh and **Dinesh Singh** (2023) Spray Prediction Model for Aonla Rust Disease Using Machine Learning Techniques. J Agricl Sci and Technol B 13 (2023) doi: 10.17265/2161-6264/2023.01.001.
169. Chander Bhan, Ram Asrey, **Dinesh Singh**, Nirmal Kumar Meena, B.R. Vinod, M. Menaka (2023). Bioefficacy of bacteria and yeast bioagents on disease suppression and quality retention of stored Kinnow mandarin fruits. *Food Bioscience* 53 (2023) 102743https://doi.org/10.1016/j.fbio.2023.102743. **(NAAS: 11.32).**
170. Shradha Verma, Anuradha Chug, Amit Prakash Singh and Dinesh Singh (2023). PDS-MCNet: a hybrid framework using MobileNetV2 with SiLU6 activation function and capsule networks for disease severity estimation in plants. Neural Computing and Applications. https://doi.org/10.1007/s00521-023-08693-9**(NAAS: 11.102).**
171. **Dinesh Singh**, Amit Kumar Kesharwani and Anupama Sharma Awasthi (2023). The type-III effectors-based multiplex PCR for detection of *Xanthomonas campestris* pv. *campestris* causing black rot disease in crucifer crops. 3 Biotech**13**, 272. 10.1007/s13205-023-03691-z. **(NAAS rating: 8.89).**
172. Janani R, Shri Dhar, Ajay Arora, Harshawardhan Choudhary , Ramesh Kumar Yadav, "Dharmendra Singh , Dinesh Singh, Amolkumar U Solanke and Prakash Kumar (2023). Physiological and biochemical responses of garden pea genotypes under reproductive stage heat stress", *Genetic Resources and Crop Evolution.* https://doi.org/10.1007/s10722-023-01684-8 **((NAAS rating: 8.88).**
173. Dhananjay Kumar Yadav, Venkatappa Devappa, Abhijeet Shankar Kashyap, Narendra Kumar, V. S. Rana, Kumari Sunita and Dinesh **Singh** (2023). Boosting the Biocontrol Efficacy of *Bacillus amyloliquefaciens* DSBA-11 through Physical and Chemical Mutagens to Control Bacterial Wilt Disease of Tomato Caused by *Ralstonia solanacearum*. Microorganisms, 11, 1790. https://doi.org/ 10.3390 /microor ganisms 11071790.
174. Devindrappa M, Anju Kamra, **Dinesh Singh**, Bharat Gawade, Anil Sirohi (2023). Plant growth promoting Bacillus species elicit defense against Meloidogyne incognita infecting tomato in polyhouse. J. of Basic Microbiology, DOI: 10.1002/jobm.202300146.

Books or Chapter Published

Books

1. Thind, T. S., Jain, R.K., Pratibha Sharma,S. M. Paul Khurana, Rashmi Aggarwal,R. K. Sharma, **Dinesh Singh**, S. C. Dubey and A. Kumar (2011). Plant Pathology in India: Vision 2030. Indian Phytopathological Society, Division of Plant Pathology, IARI, New

Delhi- ISBN: 978-81-8465-959-7, pp294.

2. **Dinesh Singh**, P. Chowdappa and Pratibha Sharma (2014). Diseases of Vegetable Crops: Diagnosis and Management. Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute Pusa, New Delhi-110 012, pp734.
3. Sharma, J. P., Shivendra Kumar and **Dinesh Singh** (2015). Bacterial wilt of solanaceous crops. I. K. International Publishing House Pvt. Ltd. New Delhi, 286 pages
4. Sushil Kumar Singh, **Dinesh Singh** and Adesh Kumar (2015). Plant diseases and theirmanagement. Kalyani Publishers, New Delhi. 366 pages.
5. Misra, A. K., **Dinesh Singh** and Pratibha Sharma (2016). Padap Roagon ki chunautiyan aom samadhan. Indian Phytopathological society, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi-110 012, pp 297.
6. Chowdappa, P., Pratibha Sharma, **Dinesh Singh** and A. K. Misra (2016). Perspectives of Plant Pathology in genomic era. Indian Phytopathological society, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi-110 012, pp 514.
7. Khetarpal, R. K., K. K. Mondal, S. C. Dubey, G. P. Rao, V. Celia Chelam, Namrata Singh, Deeba Kamil, Bishnu Maya Bashyal, Prashant P. Jambhular, G. Prakash, **Dinesh Singh** and Pratibha Sharma (2016). IPS 6th International Conference on Plant, Pathogens and People, Feb 23- 27, 2016 New Delhi, India. Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi-110 012, pp 767.
8. Khetarpal, R. K., Rashmi Aggsrwal, K. K. Mondal, S. C. Dubey, B. M. Bashyal, P. P. Jambhulkar, G. Prakash, **Dinesh Singh** and Pratibha Sharma (2016). Indian Phytopathology: Special issue on Proceedings of 6th International Conference on "Plant , Pathogens and People- Challenges in Plant Pathology to Benefit Hmankind". Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi-110 012, pp 752.
9. Devappa, V., **Dinesh Singh** and Jahagirdar, S. (2018). Diseases of Ornamental Crops. Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi-110 012, pp 333.
10. **Dinesh Singh**, B. N. Chakraborty, R. N. Pandey and Pratibha Sharma (2018). Biological control of Crop Diseases: Recent Advances and Perspectives; Part I: Horticultural crops. Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi-110 012, pp 407. ISBN 81-7019-592-2.
11. **Dinesh Singh**, B. N. Chakraborty, R. N. Pandey and Pratibha Sharma (2018). Biological control of Crop Diseases: Recent Advances and Perspectives; Part 2: Cereals, Pulses, oilseeds and other crops. Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi-110 012, pp 409- 760. ISBN 81-7019-592-2.
12. Pandey, R. N., B. N. Chakraborty, **Dinesh Singh** and Pratibha Sharma (2019). Microbial Antagonists: Role in Biological control of Plant Diseases. Part-I. Fungal Anatagonists. Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi-110 012, pp 1- 393. ISBN 81-7019-591-4.
13. Pandey, R. N., B. N. Chakraborty, **Dinesh Singh** and Pratibha Sharma (2019). Microbial Antagonists: Role in Biological control of Plant Diseases. Part-II. Bacterial Antagonists and Bacteriophages. Indian Phytopathological Society, Division of Plant Pathology,

Indian Agricultural Research Institute, New Delhi-110 012, pp 395- 850. ISBN 81-7019-591-4.
14. Pandey, R. N., **Dinesh Singh,** N. M. Gohel, Puja Pandey, R. G. Parmar, Sushil Kumar and N. V. Soni (2017). Souvenir and Abstract on special symposium onMicrobial Antagonists: Role in Biological control of Plant Diseases. Deptt. of Plant Pathology, BACA, AAU, Anand- 388 110 & IPS, New Delhi. Pages 174.
15. **Dinesh Singh (2017).** Tools and Techniques of Cell Biology, Bioscientific Publidher, New Delhi. Pages 266.
16. Srikanta Das, Subratta Dutta, B. N. Chakraborty, **Dinesh Singh** (2018). *Recent Approaches for Management of Plant Diseases.* Indian Phytopathological Society, New Delhi-110 012, pp 499.
17. Thakur M. P., Pandey R. N. and Dinesh Singh (2018). *Fasal Roag Prabandhan* (Hindi). Indian Phytopathological society, New Delhi-110 012, pp 410. ISBN No. 81-7019-623-2 (India).
18. Khan M. R. , A. N. Mukhopadhyay, R. N. Pandy, M. P. Thakur, **Dinesh Singh**, M. A. Siddiqui, Mohd. Akram, F. A. Mohiddin and Ziaul Haque (2019). *Biointensive Approaches: Application and Effectiveness in Plant Diseases Management.* Indian Phytopathological society, New Delhi-110 012, pp 1- 630.
19. Khan M. R. , A. N. Mukhopadhyay, R. N. Pandy, M. P. Thakur, **Dinesh Singh**, M. A. Siddiqui, Mohd. Akram, F. A. Mohiddin and Ziaul Haque (2019). *Biointensive Approaches: Application and Effectivenesss in the Management of Plant Nematodes, Insects and Weeds*. Indian Phytopathological society, New Delhi-110 012, pp 1- 698.
20. Ashok Bhattacharyya, B.N. Chakraborty, R. N. Pandey, **Dinesh Singh** and S.C.Dubey (2019). *Wilt Diseases of Crops*, Indian Phytopathological Society, New Delhi, pp. 548. ISBN 9788170196358.
21. Rakesh Pandey, A.K. Misra, H.B. Singh, Alok Kalra and **Dinesh Singh** (2019). *Diseases of Medicinal and Aromatic Plants and Their Management.* Indian Phytopathological Society, New Delhi. Pp.368. ISBN 81-7019-591-4.
22. fnu'k flg ,o vkj- vkj- kek (2018). Ckxokuh Qlyk d egRoi.k jkx ,o mudk icU/ku k Hkkjr ljdkj] oKkfud rFkk rduhdh "kCnkoyh vk;kx] ekuo lla/ku fodkl e=ky; (mPprj f"k{kk foHkkx). lkt 383-
23. Dubey SC, Mondal KK, Bishnu, MB, Amrita Das, Jameel A, Kavita Gupta, Robin Gogoi, Gurjar MS and Dinesh Singh (2020) IPS 7th International Conference on Phytopathology in Achieving UN Sustainable Development Goals, Jan 16- 20, 2020, Published by IPS, New Delhi pp 443. ISBN 9788170196624.
24. Singh, U Archana, Thakur MP and Dinesh Singh (2020). Major accomplishment of Indian Phytopathological Society, 2017- 2020, published by IPS, New Delhi pp 84.
25. 'kfdy uTe v[rj] idt] fnu'k flg] fc'othr iky ,o oh- ,l- jk.kk (2021). Qly lj{kk d u; vk;ke k Hkkjrh; Ñf'k vul/kku lLFkku] ub fnYyhk 192 it k ISBN: 978-93-83168-61-3.
26. **Dinesh Singh**, R. R. Sharma, V. Devappa and Deeba Kamil (2021). Post harvest handling and diseases of horticultural produce. CRC Press, Boca Raton, Florida, https://doi.org/10.1201/9781003045502, ebook ISBN 9781003045502, pages 454.
27. Bishnu Maya Bashyal, Amrita Das, Atul Kumar, Deeba Kamil, Amrita Das, Touseef Hussain, Neelam Geat, V Devappa, Shamarao Jahagirdar, Robin Gogoi, B Srinivaslu, HD Bhartiya, DN Yadav, HR Gautam, VK Baranwal, **Dinesh Singh**, Rashmi Aggarwal, MS

Saharan, 2021, International e-Conference on Postharvest Disease Management and Value Addition of Horticultural Crops, August, 18th -20, 2021, ICAR- IARI, New Delhi, India. pp. 195.

28. Pratibha Sharma, K. K. Pandey, Govind Pratap Rao, **Dinesh Singh**, Sanjeev Sharma, Jayant Tarafdar, Pranab Dutta, Prashant Jambhulkar, Vinay Sagar, Ravinder Kumar, Rahul Tiwari, Aarti Bairwa (2022). Compendium of Vegetable Crops Diseases. Indian Phytopathological Society, New Delhi pp. 126. **ISBN:** 978-81-953723-2-4.
29. Rashid Pervez, M.S. Yadav, Anoop Kumar, B.H. Gwade, Neelam Geat, Subash Chander, D. Prasad and Dinesh Singh (2022); Nationale-Conference on Biotic Stress Management Strategies for Achieving Sustainable Crop Production and Climate Resilience 19-21 May, 2022, ICAR-NCIPM, Pusa campus, New Delhi, India, pp.219.
30. **Dinesh Singh**, V. Devappa, S. Jahagirdar, H. R. Gautam and Rashmi Aggarwal (2022). Management of Postharvest Diseases and Value Addition of Horticultural Crops. Today and Tomorrow's Printers and Publishers, New Delhi. pp 388. ISBN: 9789391734008.
31. RaviKumar M. R., Jahagirdar S, Dinesh Singh and Dinesh K (2023). Bacterial diseases of plants and their management- A text book. Astral International Pvt. Ltd. New Delhi -110002. 284 pp ISBN: 978-93-5461-717-1.

E- Book

1. Amit Kumar Kesherwani, Dinesh Singh, Ravinder Pal Singh and Anupama Sharma Awasthi (2022). Xanthomonas campestris pv. campestris: A vascular pathogen causing black rot disease in crucifer crops. Eliva Press Global Ltd. , part of Eliva Press S. R. L, 2022. Mauritius, 36 pages ISBN: 978-99949-8-127-7.

Book Chapters

1. Dinesh Singh and R. R. Sharma (2007). Post harvest diseases of fruits and vegetables and their management. In Sustainable Pest Management Edited by D. Prasad, Daya Publishing house, Delhi- 110035.
2. Sharma, R. R. and Dinesh Singh (2008). Maturity Standards for commercially important fruits. In: Post harvest management of Horticultural Crops Edited by M. T. Patil, K. V. Prasad, D.V. S. Raju, Kanwar Pal Singh, Kishan Swaroop and S. S. Sindhu, Delhi Agri- Horticultural Society, Division of Floriculture and Landscaping, IARI, Pusa New Delhi-
3. Dinesh Singh (2008). Rhizosphere: strategies for augmenting soil fertility and productivity edited by Shiva Dhar, K. M. Manjaiah, K. Annapurna and R. K. Rai, Division of Agronomy, IARI, New Delhi- 110 012.

4. Dinesh Singh and R. K. Sharma (2010). Khumb men Jiwanu Roagon ka Prabandhan. In: Khumb ki Kheti. (Ed. R. K. Sharma). Division of Plant Pathology, IARI, New Delhi. Pp. 60 - 64.
5. Dinesh Singh, Shweta Sinha and D. K. Yadav (2010). Genomic fingerprinting of phytopathogenic bacteria through Rep-PCR. In Pathogenomics and Diagnostics- Cloning, sequencing and bioinformatics of genomic regions of plant pathogens and developing diagnostics. Division of Plant Pathology, IARI, New Delhi. Pp. 60 - 64.
6. Dinesh Singh and S. C. Chatterjee (2011). Recent advances in diagnosis and management of black rot disease of crucifers. In. Microbial diversity and Plant Disease Management, edited by K. P. Singh, pp. 169 – 203.
7. Dinesh Singh (2011). Potentiality of rhizobacteria to control soil borne bacterial diseases. In Protection, Diversity and conversation edited by D. Prasad and Satya Kumar. Biotech Books, New Delhi pp. 372 – 386.
8. Dinesh Singh and R.R. Sharma (2011) Bacterial Diseases of Fruit Crops and their Management. In Potential plant protection strategies, edited by D. Prasad and Rajbir Sharma. I K International Publishing House Pvt. Ltd. New Delhi-110016, India
9. Dinesh Singh and R. K. Sharma (2011). Khumb men Jiwanu Roagon ka Prabandhan. In: Khumb ki Kheti. (Ed. R. K. Sharma). Division of Plant Pathology, IARI, New Delhi. Pp. 60 - 64.
10. Dinesh Singh, Kalyan K. Mondal and Ram Kishun (2011). Current Status and future strategies in plant bacteriology in India. In Plant Pathology in India: Vision 2030, compiled by Thind, T. S., Jain, R.K., Pratibha Sharma,S. M. Paul Khurana, Rashmi Aggarwal,R. K. Sharma, Dinesh Singh, S. C. Dubey and A. Kumar, Indian Phytopathological Society, Division of Plant Pathology, IARI, New Delhi- ISBN: 978-81-8465-959-7.
11. Pratibha Sharma, Vimla, G., Prakash, Dinesh Singh and P. Chowdappa (2011). Biocontrol strategies 2030- research and industry applications, compiled by Thind, T. S., Jain, R.K., Pratibha Sharma,S. M. Paul Khurana, Rashmi Aggarwal,R. K. Sharma, Dinesh Singh, S. C. Dubey and A. Kumar, Indian Phytopathological Society, Division of Plant Pathology, IARI, New Delhi- ISBN: 978-81-8465-959-7.
12. Dinesh Singh and R. R. Sharma (2012). Post harvest diseases of Horticultural produce and their Management Compiled and Edited by R. R. Sharma, R. K. Pal and Sangeeta Sen, Division of Post Harvest Technology, IARI, New Delhi.
13. Dinesh Singh and R. R. Sharma (2013). Post harvest diseases of Horticultural produce and their Management Compiled and Edited by R. R. Sharma, Vidya Sagar and Sangeeta Sen, Division of Post Harvest Technology, IARI, New Delhi.
14. Dinesh Singh (2012). Diagnosis and management of Bacterial wilt of solanaceous crops caused by Ralstonia solanacearum.In: proceedings of 26th Training on Diseases and management of crops under protected cultivation, compiled and edited by K. S. Dubey and R. P. Singh, G. B. Pant University of Agriculture & Technoogy Pantnagar, pp 43 -55.
15. Dinesh Singh and R. K. Sharma (2012). Khumb men Jiwanu Roagon ka Prabandhan. In: Mushroom Utpadan. (Ed. R. K. Sharma and Deeba Kamil). Division of Plant Pathology, IARI, New Delhi. Pp. 81- 89.
16. Dinesh Singh and R. R. Sharma (2013). Post harvest diseases of Horticultural produce and their Management Compiled and Edited by

R. R. Sharma, Vidya Sagar and Sangeeta Sen, Division of Post Harvest Technology, IARI, New Delhi.

17. Dinesh Singh (2013). Bacterial antagonists as Biopesticides of plant diseases. In: Entrepreneurship Development Programme on Microbial Biopesticides. Edited by G. T. Gujar, Vinay Kalia and Neeru Bhooshan, Division of Entomology, & ZTM and BP& D Units. IARI, New Delhi pp. 86 - 94.
18. Dinesh Singh and Pratibha Sharma (2013). Sabjio ke Raogoan ka Javik Niyantran (Hindi). In: Entrepreneurship Development Programme on Microbial Biopesticides. Edited by G. T. Gujar, Vinay Kalia and Neeru Bhooshan, Division of Entomology & ZTM and BP& D Units. IARI, New Delhi pp. 95- 101.
19. Dinesh Singh, D. K. Yadav, Garima Chaudhary, Priyanka Singh Rathour and R. P. Singh (2013). Case Study 4: *Bacillus* and *Pseudomonas*: Effective against Bacterial wilt pathogen of tomato. In training manual Understanding of mechanism of host –pathogen- bioagents interaction and sustainable biomanagement strategies for threatening crop diseases, edited by Pratibha Sharma, Rashmi Aggarwal, S. C. Dubey, Dinesh Singh and R. K. Jain., Division of Plant Pathology, IARi, New Delhi, pages 62 – 85.
20. Dinesh Singh and R. R. Sharma (2014). Post harvest diseases of fruits and their management Compiled and Edited by R. R. Sharma, Vidya Sagar and Sangeeta Sen, Division of Post Harvest Technology, IARI, New Delhi.
21. Dinesh Singh (2014). Scope and Importance of Postharvest Management of Fruits and Vegetables. In:Proceedings of 29th Training on Post harvest diseases and pest management for ensuring food security complied & edited by Karuna Vishunavat, K. P. Singh and Yogendra Singh, G. B. Pant University of Agriculture & Technoogy Pantnagar, pp 41 - 46.
22. Dinesh Singh (2014). Post harvest diseases of Kinnow and their management. In: Proceedings of 29th Training on Post harvest diseases and pest management for ensuringfood security complied & edited by Karuna Vishunavat, K. P. Singh and Yogendra Singh, G. B. Pant University of Agriculture & Technoogy Pantnagar, pp 50 - 63.
23. Dinesh Singh and Pratibha Sharma (2014). Diseases of Tomato and Brinjal. In: Diseases ofVegetable Crops: Diagnosis and Management. Edited by **Dinesh Singh**, P. Chowdappa and Pratibha Sharma, Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute Pusa, New Delhi pp. 59-142.
24. Gireesh Chand, Sanjeev Kumar, R. S. Kureel and Dinesh Singh (2014). Diseases of Cucurbits. In: Diseases of Vegetable Crops: Diagnosis and Management. Edited by Dinesh Singh, P. Chowdappa and Pratibha Sharma, Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute Pusa, New Delhi pp. 185- 262.
25. Narayana, M. Bhat , M. S. Kulkarni, Dinesh Singh, S.Vennila, H. R. Sardana, D. B. Ahuja and Pratibha Sharma (2014). Diseases of Cole Crops. In: Diseases of Vegetable Crops: Diagnosis and Management. Edited by Dinesh Singh, P. Chowdappa and Pratibha Sharma, Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute Pusa, New Delhi pp. 263 – 310.
26. Kamal Khilari, Chandra Bhanu and Dinesh Singh (2014). Diseases of VegetableTuber Crops. In: Diseases of Vegetable Crops: Diagnosis and Management. Edited by Dinesh Singh, P. Chowdappa and Pratibha Sharma, Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute Pusa, New Delhi pp. 441 – 514.

27. Dinesh Singh and Rajesh Kumar Ranjan (2014). Ecofriendly management of diseases of solanaceous vegetables. In: Ecofriendly mamagement of major diseases of crops edt. By Pratibha Sharma, Dinesh Singh and G. Prakash, Division of Plant Pathology, IARI, New Delhi pp. 66- 74.
28. Dinesh Singh and Dhanjay Kumar Yadav (2014). Ecofriendly management of bacterial wilt diseases of tomato. In:Ecofriendly mamagement of major diseases of crops edt. By Pratibha Sharma, Dinesh Singh and G. Prakash, Division of Plant Pathology, IARI, New Delhi pp. 80- 85.
29. Dinesh Singh and R. R. Sharma (2014). Ecofriendly management of post harvest diseases of fruits. In: Ecofriendly mamagement of major diseases of crops, edt. By Pratibha Sharma, Dinesh Singh and G. Prakash, Division of Plant Pathology, IARI, New Delhi pp. 151- 156.
30. Dinesh Singh (2014). New tools and techniques for the diagnosis and detection of bacterial diseases. In: Innovative approaches and advances for diagnosis and detection of plant diseases in relation to their management Edited by Karuna Vishnuvat, A. K. Tiwari and Y. Singh, G.B. Pant Univeristy of Agriculture and Technology, Pantnagar (Uttarakhand), pp. 93- 105.
31. Dinesh Singh, Garima Chaudhary, D. K. Yadav, Priyanka Singh Rauthour and Rajesh Kumar Ranjan (2015). Genetic and pathogenic characterization *Ralstonia solanacearum* towards managing bacterial wilt of tomato. In: Genetic and pathogenic characterization towards managing nationally important plant pathogens causing wilt and blight, eds. By Pratibha Sharma et al., Division of Plant Pathology, IARI, New Delhi. Pp.27- 51.
32. Dinesh Singh (2015). Rhizobacteria: Identification, mode of action and massproduction of bioformulations. In: ICAR- Sponsered short course on Recent Advances in Mass production of biological control agents,NCIPM, New Delhi 1- 10 Sept. 2015. Pp 39- 45.
33. Dinesh Singh (2015). Isolation, antagonistic characterization and mass production of rhizobacteriaIn: ICAR- Sponsered short course on Recent Advances in Mass production of biological control agents,NCIPM, New Delhi 1- 10 Sept. 2015. Pp 39- 45.
34. Dinesh Singh (2015). Isolation and identification of bacterial biocontrol agentsIn: Practical manual and Refesher course cum training on biopesticides testing, August 24- 28, 2105, ICAR- IARI, New Delhi. Pp 18- 30.
35. Deeba Kamil and Dinesh Singh (2015). Antagonistic capabilities of biocontrol agents. In: Practical manual and Refesher course cum training on biopesticides testing, August 24- 28, 2105, ICAR- IARI, New Delhi. Pp 36-40.
36. Dinesh Singh (2015). Postharvest Diseases of Fruits and Vegetables and Their Management. In: Training Manual of model training course (GOI) course organized by CIPHET Abohar during 17-24 November, 2015.
37. Dinesh Singh (2015). Application of recent techniques for detection of bacterial pathogens from seeds and planting materials. In: Proc. 31st training on Innovative, Eco-And Farmers Friendly Crop Protection Measures" November

30 to December 20, 2015 in Department of Plant Pathology, GB Pant University of Agricuture and Technology, Pantnagar. pp, 143- 153.

38. Dinesh Singh (2015). Integrated approach for management of bacterial diseases of solanaceaous crops. In: In: Proc. 31st training on Innovative, Eco-And Farmers Friendly Crop Protection Measures" November 30 to December 20, 2015 in Department of Plant Pathology, GB Pant University of Agriculture and Technology, Pantnagar. pp, 160- 3- 167.
39. Dinesh Singh, Rajesh Kumar Ranjan, D K. Yadav, Neha Gupta and J. P. Sharma (2016). Biocontrol of bacterial wilt of solanaceous crops. In. Plant Diseases and their sustainable Management, Edited by Shyam Saran Vaish Published bt Biotech Books, New Delhi. Pages 1- 31.
40. Dinesh Singh (20016). Recent trends in diagnosis of Ralstonia solanacearum causing bacterial wilt of solanaceous crops.In: Perspectives of Plant Pathology in genomic era. Edited by P. Chowdappa, Pratibha Sharma, Dinesh Singh and A. K. Mishra. IPS, new Delhi pages 91- 122.
41. *ÁfrHkk "kek ,o fnu'k flg*(2016).dyk d Áe[k jkx ,o mudk lefdr fu;=.k kikni jkxk dh pukfr;k ,o lek/kku d vUrxr],0 d0 feJ] fnu"k flg ,o ÁfrHkk "kek)kjk likfnr ,o vkb0ih0,l0, ub fnYyh)kjk idkf"kr] iUu 26&32 k
42. *jke jk'ku 'kek ,o fnu'k flg*(2016). lc d rMkb mijkr jkx ,o mudk ic/kukikni jkxk dh pukfr;k ,o lek/kku d vUrxr],0 d0 feJ] fnu"k flg ,o ÁfrHkk "kek)kjk likfnr ,o vkb0ih0,l0, ub fnYyh)kjk idkf"kr] iUu 83&89 k
43. *ifrHkk "kek ,o fnu'k flg*(2016). ie[k 'kkHkkdkjh ik/kk d jkx ,o ic/kukikni jkxk dh pukfr;k ,o lek/kku d vUrxr],0 d0 feJ] fnu"k flg ,o ÁfrHkk "kek)kjk likfnr ,o vkb0ih0,l0, ub fnYyh)kjk idkf"kr] iUu 169&187 k
44- vkj-d- 'kek ,o *fnu'k flg*(2016). cVu e'k:e dk jkx ic/kukikni jkxk dh pukfr;k ,o lek/kku d vUrxr],0 d0 feJ] fnu"k flg ,o ÁfrHkk "kek)kjk likfnr ,o vkb0ih0,l0, ub fnYyh)kjk idkf"kr] iUu 160&168 k
45. Dinesh Singh, Priyanka S. Rathour and Neha Gupta (2016). Detection of plant pathogenic bacteria using polymerase chain reaction (pcr) based methods. In: Innovative Biotic Stress Management Strategies. Write And Print Publications, New Delhi
46. Sharma, R. K. and Dinesh Singh (2016) Integrated Management of mushroom diseases. In : Mushrooms in India edited by Satyawati Sharma, Manjeet Singh, Shalini Prasad and Himanshi Rathore, Centre for Rural Development & Technology IIT, Delhi. Pages 184- 205.
47. Singh, D., Chaudhary, G. and Yadav, D.K. 2016. Recent advances in diagnosis and management of bacterial diseases of solanaceous crops, 237-253 p. In "About Diseases of Horticultural Crops" (Eds. Sharma, I.M. and Gauatm, H.R.), Neoti Book Agency Pvt. Ltd., New Delhi 417 pp.
48. Dinesh Singh (2017). Management of Bacterial Wilt of SolanaceousCrops through Host Plant Resistance-Identification of Effective

Resistance Genes and PathogenDiversity Analysis. In: Proc. 34th Trainingon"Adoption Of Suitable Conventional andBiotechnological Approaches For Biotic and Abiotic Stress Management in Crops" eds.Karuna Vishunavat, K.P. Singh, Manju Sharma, February 13 to March 05, 2017 at Department of Plant Pathology, GB Pant University of Agriculture and Technology, Pantnagar. pp 60-65.

49. Dinesh Singh (2017). ELISA and PCR Based Diagnosis of Solanaceous Planting Materials in Subsequent Cycles. In: Proc. 34th Trainingon"Adoption Of Suitable Conventional andBiotechnological Approaches For Biotic and Abiotic Stress Management in Crops" eds.Karuna Vishunavat, K.P. Singh, Manju Sharma, February 13 to March 05, 2017 at Department of Plant Pathology, GB Pant University of Agriculture and Technology, Pantnagar. pp112-121.
50. Dinesh Singh (2017). Detection of *Xanthomonas oryzae* pv. *oryzae* from seeds and leaves of rice. In: *Plant Pathology Series Volume II*. Edited by Rashmi Aggarwal, R. K. Jain and Bishnu Maya Bashyal, Division of Planp Pathology, ICAR- IARI, New Delhi. Pp. 307- 317.
51. Dinesh Singh (2017). Race characterization and diversity of Indian isolates of *Xanthomonas campestris* pv. *campestris* causing black rot of crucifers.. In: *Plant Pathology Series Volume II.* Edited by Rashmi Aggarwal, R. K. Jain and Bishnu Maya Bashyal, Division of Planp Pathology, ICAR- IARI, New Delhi. Pp. 318- 348.
52. Dinesh Singh (2017). Detection of *Xanthomonas campestris* pv. *campestris* from seeds and plant parts of cole crops. In: *Plant Pathology Series Volume II*. Edited by Rashmi Aggarwal, R. K. Jain and Bishnu Maya Bashyal, Division of Planp Pathology, ICAR- IARI, New Delhi. Pp. 349- 359.
53. Rashmi Aggarwal, S. C. Dubey, Robin Gogoi, Dinesh Singh, K. K. Mondal,Bishnu Maya Bashyal, Vaibhav Kumar Singh, G. Prakash and N. Srinivasa (2017). Evaluation of germplasm under glass house and field conditions against different fungal and bacterial pathogens. In: *Plant Pathology Series Volume II*. Edited by Rashmi Aggarwal, R. K. Jain and Bishnu Maya Bashyal, Division of Planp Pathology, ICAR- IARI, New Delhi. Pp. 378- 3386.
54. Dinesh Singh and Rajesh Kumar Ranjan (2017). Diseases of Jasmine and their management. In: Diseases of Ornamaental Crops edit. By V. Devappa, Dinesh Singh and S. Jahagirdar. IPS, New Delhi pages 31- 55.
55. Dinesh Singh (2017). Post harvest diseases of fruits and vegetables and their management. In: Technological Advances to Minimize Pre-and PostHarvestb Losses in Agricultural and HorticulturalCrops to Enhance Farmer's Income, Edited by Karuna Vishnuvat, Y. Singh andGeeta Sharma, G.B. Pant Univeristy of Agriculture and Technology, Pantnagar (Uttarakhand), pp. 36- 52.
56. Dinesh Singh (2017). Post Harvest Diseases of Citrus and their Management. In: Technological Advances to Minimize Pre-and PostHarvestLosses in Agricultural and HorticulturalCrops to Enhance Farmer's Income, Edited by Karuna Vishnuvat, Y. Singh andGeeta Sharma, G.B. Pant Univeristy of Agriculture and Technology, Pantnagar (Uttarakhand), pp. 87- 98.

57. Dinesh Singh and R. K. Ranjan (2018). Recent advances in management of bacterial wiltof solanaceous crops. In:Recent Approaches for Management of Plant Diseases, edited by Srikanta Das, Subratta Dutta,B. N. Chakraborty, Dinesh Singh**,** Indian Phytopathological Society, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi, pp. 205- 246.

58. Sharma, M., Kansal, R., & Singh, D. (2018). Endophytic microorganisms: Their role in plant growth and crop improvement. In: R. Prasad, S. S. Gill, & N. Tuteja (Eds.), Crop improvement through microbial biotechnology (391–413). Amsterdam, The Netherlands: Elsevier.

59. Dinesh Singh (2018) Isolation, characterization and mass production of rhizobacteria. In: Handbook Integrated Pest Management. Indian Council of Agricultural Research, New delhi pp 716- 720.

60. Dinesh Singh (2019). *Bacillus* species as versatile weapons against plant pathogens. In: Proc. of the 37th Training on "Advanced Technology in Plant Health Management and Pest Risk Analysis for Improvisation of Indian Agriculture and Farmers Income" September 05-25, 2018 edited by Karuna Vishunavat, K.P. Singh and Geeta Sharma, G.B. Pant Univeristy of Agriculture and Technology, Pantnagar (Uttarakhand), pp. 90-101.

61.Dinesh Singh (2018). Bacterial wilt disease of solanaceous crops: molecular and ecological aspects. In: Proc. of the 37th Training on "Advanced Technology in Plant Health Management and Pest Risk Analysis for Improvisation of Indian Agriculture and Farmers Income" September 05-25, 2018 edited by Karuna Vishunavat, K.P. Singh and Geeta Sharma, G.B. Pant Univeristy of Agriculture and Technology, Pantnagar (Uttarakhand), pp. 117-132.

62. Gayatri Biswal and **Dinesh Singh** (2019). Application of bioagents for management of potato diseases. In : (2019). *Biological control of Crop Diseases: Recent Advances and Perspectives; Part 1: Horticultural Crops*. Edited by **Dinesh Singh**, B. N. Chakraborty, R. N. Pandey and Pratibha Sharma, Indian Phytopathological Society, New Delhi, 179- 205.

63. Prasad K, R. R. Sharma, **Dinesh Singh**, and Abhay Kumar Gaurav (2019). Application of bioagents for management of potato diseases. In : (2019). *Biological control of Crop Diseases: Recent Advances and Perspectives; Part 1: Horticultural Crops*. Edited by **Dinesh Singh**, B. N. Chakraborty, R. N. Pandey and Pratibha Sharma, Indian Phytopathological Society, New Delhi, 379- 407.

64. Lakshman Prasad and **Dinesh Singh** (2019). Microbial Anagonists and thir role in biological control of brassica diseases. In : (2019). *Biological control of Crop Diseases: Recent Advances and Perspectives; Part 1: Cereals, Pulses, Oilseed and other crops*. Edited by **Dinesh Singh**, B. N. Chakraborty, R. N. Pandey and Pratibha Sharma, Indian Phytopathological Society, New Delhi, 609- 629.

65. Gupta, A. K. Aditi Sharma, Kishor Khosla and **Dinesh Singh** (2019). Utilization of bacterial antagonists against plant pathogens. In: Alternative approaches in Plant Disease Management edited by S. K. Sharma and H. R. Gautam, Deptt. of Plant Pathology, Dr. Y. S. Parmar Univ. of Hort. & Forestry, Nauni, Solan H. P. 19-40.

66. **Dinesh Singh**, Abhijeet Shankar Kashyap, Amit kumar Kesharwani and Shakshi Tomar (2019). Bio-intensive management for soil borne

diseases of cucurbitaceous crops. In: (2019). *Biointensive Approaches: Application and Effectivenesss in Plant Diseases Management*edited by Khan M. R., A. N. Mukhopadhyay, R. N. Pandy, M. P. Thakur, Dinesh Singh, M. A. Siddiqui, Mohd. Akram, F. A. Mohiddin and Ziaul Haque, Indian Phytopathological society, New Delhi-110 012, pp 357- 380.

67. **Dinesh Singh** (2019). Bacterial wilt disease of tomato incited by *Ralstonia solanacearum* . In: *Wilt Diseases of Crops*, edited by Ashok Bhattacharyya, B.N. Chakraborty, R. N. Pandey, Dinesh Singh and S.C.Dubey (2019). Indian Phytopathological Society, New Delhi, 1-54.
68. Mehdi Azadvar and **Dinesh Singh** (2019). Bacterial wilt disease of cucurbit and its management. *Wilt Diseases of Crops*, edited by Ashok Bhattacharyya, B.N. Chakraborty, R. N. Pandey, Dinesh Singh and S.C.Dubey, Indian Phytopathological Society, New Delhi, 107-121.
69. **Dinesh Singh** (2019). Race profiling and detection of pathogens causing bacterial diseases of crops. In: Training manual on Plant disease monitoring for timely management options edited by Sinha, P., M. S. Sharahan and R. aggarwal, Division of Plant Pathology, ICAR- IARI, New Delhi- 110012. 106- 111.
70. **Dinesh Singh** and R. R. Sharma (2018). Postharvest diseases of fruits and vegetables and their management. In: Postharvest Disinfection of Fruits and Vegetables, edited by Mohammed Wasim Siddiqui. Academic Press. USA. 1- 52.
71. **Dinesh Singh** and Priyanka Singh Rathaur 2020. Detection of Seed and Propagating Material-Borne Bacterial Diseases of Economically Important Crops. In: R. Kumar, A. Gupta (eds.), Seed-Borne Diseases of Agricultural Crops: Detection, Diagnosis & Management. Springer Nature Singapore Pte Ltd. https://doi.org/10.1007/978-981-32-9046-4_6. 143-167.
72. Rajender J., Lokesh Babu P. and **Dinesh Singh** (2021). Maize: Bacterial Stalk Rot. In: Diseases of Nationally Important Field Crops.Editors, M.R. Khan, Z. Haque and F. AhamadToday & Tomorrow's Printers and Publishers, New Delhi, pp.169-174.
73. Priyanka Sahu, Anuradha Chug, A. P. Singh, Dinesh Singh and R. P. Singh (2021). Challenges and issues in plant disease setection using deep learning. In: Handbook of Research on Machine Learning Techniques for Pattern Recognition and Information Security, DOI: 10.4018/978-1-7998-3299-7.ch004: pages 38-55.
74. fnu'k flg(2021)Qyk d egRoi.k jkx ,o mudk icU/ku k Qly lj{kk d u, vk;ke k Hkk- d- v- i- & Hkkjrh; df"k vul/kku lLFkku] ub fnYyh& 110012 k it 130 & 156-
75. fnu'k flg(2021)Qyk lfCt;k d jkxk dh igpku ,o mudk icU/ku k Qly lj{kk d u, vk;ke k Hkk- d- v- i- & Hkkjrh; df"k vul/kku lLFkku] ub fnYyh& 110012 k it 157 & 172-
76. ifrHkk 'kek ,ofnu'k flg(2021)ie[k 'kkHkkdkjh ik/kk d jkx ,o icU/ku k Qly lj{kk d u, vk;ke k Hkk- d- v- i- & Hkkjrh; df"k vul/kku lLFkku] ub fnYyh& 110012 k it 173 & 184-
77-Dinesh Singh and Neelam Geat (2021). Emerging Technologies for Management of Important Bacterial Diseases in Crops. In:

Technologies Strides in Plant Health Management edited by N K Bharat and H. R. Gautam, Neoti Book Agency Pvt. Limited, pages 147- 196.

78.Abhijeet Shankar Kashyap, Meenakshi Tetorya, Amit Kumar Kesharwani, Dinesh Singh (2019). Molecular and physiological characterization of plant growth promoting rhizobacteria: Methods and protocols. Pharmacognosy & Nutrition 1: 79-104.

79. **Dinesh Singh**, Ram Roshan Sharma and Amit Kumar Kesharwani (2021).Postharvest Losses of Horticultural Produce. In: Posthavest handling and diseases of horticultural produce edited by Dinesh Singh , R. R. Sharma, Devappa V and Deeba Kamil. CRC Press, USA, pages 1- 24.

80.**Dinesh Singh** and Ravinder Pal Singh (2021). Management of Postharvest Diseases of Fruits and Vegetables through Chemicals. In: Posthavest handling and diseases of horticultural produce edited by Dinesh Singh , R. R. Sharma, Devappa V and Deeba Kamil. CRC Press, USA, pages 57- 78.

81.Ram Roshan Sharma, **Dinesh Singh**, Vijay Rakesh Reddy, Shruti Sethi and H. R. Raghavendra (2021). Bio-control of Postharvest Pathogens Affecting Perishable Horticultural Commodities. In: Posthavest handling and diseases of horticultural produce edited by Singh, R. R. Sharma, Devappa V and Deeba Kamil. CRC Press, USA, pages 79- 92.

82.Bharti Choudhary and **Dinesh Singh** (2021). Management of Postharvest Diseases of Fruits and Vegetables through Yeasts. In: Posthavest handling and diseases of horticultural produce edited by Dinesh Singh, R. R. Sharma, Devappa V and Deeba Kamil. CRC Press, USA, pages 111- 120.

83.Gayatri Biswal and **Dinesh Singh** (2021). Management of Postharvest Diseases in Fruits and Vegetables Using Botanicals. In: Posthavest handling and diseases of horticultural produce. edited by Dinesh Singh, R. R. Sharma, Devappa V and Deeba Kamil. CRC Press, USA, pages 121- 136.

84.Vinay, J.U., Jahagirdar Shamarao, V. Devappa, S.A. Ashtaputre and Dinesh Singh (2021). Recent Advances in Postharvest Handling and Management of Citrus Diseases.In: Posthavest handling and diseases of horticultural produce edited by Singh, R. R. Sharma, Devappa V and Deeba Kamil. CRC Press, USA, pages 175- 188.

85.Rajesh Kumar Ranjan, **Dinesh Singh** and Dinesh Rai (2021) Postharvest Diseases of Potato and Their Management. In: Posthavest handling and diseases of horticultural produce edited by Dinesh Singh, R. R. Sharma, Devappa V and Deeba Kamil. CRC Press, USA, pages 305- 326.

86.**Dinesh Singh** and Mehjabeen Afaque (2021) Postharvest Diseases of Cucurbitaceous Fruits and Their Management. In: Posthavest handling and diseases of horticultural produce edited by Dinesh Singh, R. R. Sharma, Devappa V and Deeba Kamil. CRC Press, USA, pages 366- 380.

87. Tripathi, A. N., **D.Singh**, K. K.Pandey and J. Singh (2021). Postharvest Diseases of Leguminous Vegetable Crops and Their Management. In: Posthavest handling and diseases of horticultural produce edited by Dinesh Singh, R. R. Sharma, Devappa V and Deeba Kamil. CRC

Press, USA, pages 387- 396.

88. Lokesh Babu P, Rajender J and **Dinesh Singh** (2021). Innovative Mangement of Tomato Bacterial Diseases. In : Current Horticulture: Improvement, Production, Plant Health Management and ValueAddition" volume 2. edited by Balraj Singh, A. K. Singh, B. S. Tomar, J. K. Ranjan, Som Dutt, Brillion Publishing, New Delhi ISBN: 978-93-90757-79-4 pages 529-524.
89. **Dinesh Singh** and Amit Kumar Kesharwani (2021). Management of Bacterial Diseases in Vegetable Crops. In: Current Horticulture: Improvement, Production, Plant Health Management and ValueAddition" volume 2. edited by Balraj Singh, A. K. Singh, B. S. Tomar, J. K. Ranjan, Som Dutt, Brillion Publishing, New Delhi ISBN: 978-93-90757-79-4 pages 529-524.
90. Bhatia, A. Anuradha Chug, Singh, A. P., Singh R. P., **Dinesh Singh** (2022). A Forecasting Technique for Powdery Mildew Disease Prediction in Tomato Plants. In : Proceedings of Second Doctoral Symposium on Computational Intelligence. DOI: 10.1007/978-981-16-3346-1_41
91. Priyanka Sahu, Anuradha Chug, Singh, A. P., **Dinesh Singh** and Singh, R. P., 2022. Classification and Activation Map Visualization of Banana Diseases Using Deep Learning Models. In : International Conference on Innovative Computing and Communications DOI: 10.1007/978-981-16-3071-2_61
92. Priyanka Sahu, Anuradha Chug, Amit Prakash Singh, and **Dinesh Singh** (2022). Enhancing leaf disease identification with GAN for limited training dataset. In: Image Processing and Intelligent Computing Systems, CRC Press-Taylor & Francis Group.
93. Prateek Thakur, Anuradha Chug, Amit Prakash Singh and **Dinesh Singh** (2022).Detecting Bacterial Leaf Spot Disease in Bell Pepper Plant Using Various Hybrid Machine Learning Models. In: Management of Postharvest Diseases and Value Addition of HorticulturalCrops edited by Dinesh Singh, V. Devappa,S. Jahagirdar, H. R. Gautam and Rashmi Aggarwal, Today and Tomorrow's Printers and Publishers, New Delhi. pp 55-60.
94. Anshul Bhatia, Anuradha Chug, Amit Prakash Singh and **Dinesh Singh** (2022). A deep learning-based forecasting system to predict early blight disease in tomato plants**.** In: Management of Postharvest Diseases and Value Addition of HorticulturalCrops edited by Dinesh Singh, V. Devappa,S. Jahagirdar, H. R. Gautam and Rashmi Aggarwal, Today and Tomorrow's Printers and Publishers, New Delhi. pp 61-65.
95. **Dinesh Singh**, A. K. Thakur R. K. Jain, Amit Kumar Kesharwani, and Tauseef Hussain (2022). Pre and postharvest handling and disease management of kinnow. In: Management of Postharvest Diseases and Value Addition of Horticultural Crops edited by Dinesh Singh, V. Devappa, S. Jahagirdar, H. R. Gautam and Rashmi Aggarwal, Today and Tomorrow's Printers and Publishers, New Delhi. pp 103-116.
96. Ranjan R. K. and **Dinesh Singh**(2022).Effect of storage temperature on development of potato soft rot disease caused by *Erwinia Carotovora* subsp. c*arotovora* and its molecular detection. In: Management of Postharvest Diseases and Value Addition of Horticultural Crops edited by Dinesh Singh, V. Devappa, S. Jahagirdar, H. R. Gautam and Rashmi Aggarwal, Today and Tomorrow's Printers and Publishers, New Delhi. pp 155-160.

97.Singh H. K., Manish Kumar Maurya and **Dinesh Singh** (2022).Postharvest diseases of aonla (*Emblica officinlis* Gaertn) and their management. In: Management of Postharvest Diseases and Value Addition of Horticultural Crops edited by Dinesh Singh, V. Devappa, S. Jahagirdar, H. R. Gautam and Rashmi Aggarwal, Today and Tomorrow's Printers and Publishers, New Delhi. pp 201- 207.

98.Gayatri Biswal and **Dinesh Singh** (2022). Use of botanicals for the management of postharvest microbial deterioration in fruits. In: Management of Postharvest Diseases and Value Addition of Horticultural Crops edited by Dinesh Singh, V. Devappa, S. Jahagirdar, H. R. Gautam and Rashmi Aggarwal, Today and Tomorrow's Printers and Publishers, New Delhi. pp 213- 221.

99.Adikaram, N.K.B., Lalith Jayasinghe and Dinesh Singh (2022). Chapter 26. Postharvest Diseases of Pineapple and Banana. Ed. James E. Adaskaveg, Helga Förster, and Dov B. Prusky. In. Postharvest Pathology of Fruit and Nut Crops: Principles, Concepts, and Management Practices. The American Phytopathological Society Press (APS). 606pp.
ISBN: 978-0-89054-667-3 Pages: 606.

100.Dinesh Singh (2022). Management of Plant bacterial diseases using Advanced Techniques. In Training Manual on Combating the diseases of field and horticultural crops.: Past and Future strategies under IDP- NAHEP, GAU, Junagadh, during 29 August to 02 Sept. 2022. Pp. 46-63.

Popular article

1. Dinesh Singh, Manoj Kumar, Pradeep kumar Sarswat, Rajeev Kumar Jain and Desh bir Singh (2005). Kinnow Ka Turai Uparant Rakh rakhav. **Phal Phool** (Jan.–Feb.2005):25- 28.

2. Sharma, R. R. **Dinesh Singh** and R. K. Jain (2005) Hot water treatment: An efficient technique to control post–harvest fruit rots. **Intensive Agriculture** (Jan.–Feb. 2005):8-11

3. **Dinesh Singh** (2006). Safed button khumbi ke rog prabandhan. Prasar Doot (Mela Visheshank 2006): 62 – 63.

4. Sharma, R. R. **Dinesh Singh** and D. B. Singh (2006). Aam ke pramukh kriyatmak vicar, roag wa keet auom unaka prabandhan. Krishi Darpan, 1 (6) March, 2006: 25 -29.

5. **Dinesh Singh**, Goutam Mandal and R. R. Sharma (2006). Turai ke bad Falon me Rog na Lagane de. **Phal Phool** (Sept. Octo. 2006): 18 – 19 & 23.

6. **Dinesh Singh,** P. C. Sarkar, R. R. Sharma and Satya Vir Singh (2006). Momikaran Dwara Kinnow ko Tikaou Banaye. **Phal Phool** (Sept. Octo. 2006): 30 – 33.

1. Sharma, R. R. **Dinesh Singh**, R. K. Pal and D. V. K. Samuel (2007). Turai Uparant Bagwani Fasalon Ka Rakh- Rakhav. Prasar Doot (Mela Visheshank, 2007): 35-37.

8. **Dinesh Singh** and R. R. Sharma (2007). Maidani Kshetro me Ugaye Jane Wale Guthalidar Falon ke Turai Uparant Rogon ka Prabandhan. Prasar Doot (Mela Visheshank, 2007): 60 -61.

9. **Dinesh Singh**, Goutam Mandal and R. R. Sharma (2007). Reduce post harvest losses in peach. Indian Horticulture, 52: 23-25.

10. **Dinesh Singh** and A. K. Thakur (2007). Turai Uparant Kinnow falon ka Upachar and Rakh –Rakhav. Krishi Darpan, 6:30-31.

11. **Dinesh Singh** and R. R. Sharma (2007). Guthalidar Falon ke Turai Uparant Rogon ka Prabandhan. Modern Kheti, June, 2007): 40-42.

12. Thakur, A. K. and **Dinesh Singh** (2007). Kinnow Prasankaran ke liye Laghu udyog ki Samhbawnayne. Krishi Prasanskaran Darpan, Jan-June 2007 (2): 6- 7.

13.Sharma, R. R., **Dinesh Singh** and J. S. Dabas (2008). Samay se Karen Aam ke daihik vikaro ka samadhan**.** Prasar Doot (2008): 53-55.

14. Ram Asrey, C. Shashi Kala, **Dinesh Singh** and R. R. Sharma (2009). Ek fafund badhye kinnow bhandaran awadhi**.** Phal Phool (Jan – Feb. 2009): 19- 20.

15. Dinesh Singh, R. R. Sharma, Shridhar and A. K. Thakur (2009). Kaise Karen Gobhiyawargiy Sabjio ka rogon se Bachawa. Prasar Doot (2009): 45 - 47.

16. Sharma, R. R. and **Dinesh Singh** (2009) Microbial antagonists for the control of Post harvest diseases of fruits. Intensive Agriculture (Jan.- March): 6- 9.

17. Sharma, R. R. and **Dinesh Singh** (2009). Keep fruits safe for more time. Indian Horticulture (Jan.- March): 10- 12.

18.Dinesh Singh and R. R. Sharma (2009). Turai ke Bad phalon ka surkshit Prabandhan, Kheti, 62 (1) (November): 46 - 48.

19. Manoharachary, C., K VBR Tilak, Uma Maheshwari and **Dinesh Singh** (2009). National conservation and characterization of microbes: A must in changing world scenario. Indian Farming 59 (8): 26-30.

20.Dinesh Singh, O. P. Singh and A. K. Jain (2009) Gulab ke Paodhon me roag tatha kit niyantran,. Prasar Doot 2009: 52- 53.

21.Dinesh Singh and O. P. Singh (2009) Phaloan ke pramukh roag aom unaki roaktham. Surabhi 2008- 2009: 34- 39.

22.Dinesh Singh, O. P. Singh and R. R. Sharma (2010). Nibukul phaloan ke roag and Unka Prabandhan. Vighyan Garima Sindhu 75 (October- December): 28- 31.

23. Sharma R. R., **Dinesh Singh** and Hare Krishna (2010). Phaloan ke Turai Uparant Roagon ka Prabhandan. Vighyan Garima Sindhu 75 (October- December): 71- 75.

24. Vivek Singh, K. Priyanka and **Dinesh Singh** (2011). Use of plant growth promoting rhizobacteria in crop production. Indian Farming 61 (2): 12 – 16.

25. Srivastava, S., S. K. S. Yadav and **Dinesh Singh** (2011). Coated kinnow fruits fetch more. Indian horticulture, 56 (4) (July –August 2011):10 -11.

26. **Dinesh Singh**, R. R. Sharma and Ram Asrey (2011). Nibuvargya phal Turai Uparant Roag Prabandh. Phal Phul (November – December 2011): 7- 10.

27. Sharma, R. K. and **Dinesh Singh** (2013). Khumbh Rogaon ka Samakit Prabhandhan. Phal- Phool. 34 (2): 22- 26.

28. **Dinesh Singh**, Garima chaudhary and D. K. Yadav (2014). Tamatar kulki Sabjio ko jiwanu mlani roag se bachav. Phal –Phul (March- April): 30 – 34.

29- ÁfrHkk “kekZ ,oa fnus”k flag ¼2014½- egRoiw.kZ m’.k ,oa miks’.k Qy Qlyksa ds Áeq[k ds Áeq[k jksxksa dk ÁcU/kuA Álkjnwr vxLr 2014%

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30- fnus"k flag] vkj-ds- "kekZ ,oa ÁfrHkk "kekZ ¼2014½- Qy ,oa lfCt;ksa ds jksxksa dk lw{ethoksa }kjk ÁcU/kuA iwlk lqjfHk% 41&47-

31. Basyal, B. M., Singh , B.K., **Dinesh Singh**, Pratibha Sharma, S. C. Dubey, Jasbir Singh and Rashmi Aggarwal (2015). Tikaou kheti ke lye samekt Padap roag Prabandhan. Pusa krishi Vighyan Mela 2015- Samgra Vikash ke lye pusa santhan ki pradhyogikiyan. 89- 92.

32. R. K. Sharma and **Dinesh Singh** (2014). Dhingari (Oyster) mushroom Utpadan: Dhan Puwal ka sadupyog. Prasar doot Dec. 2014: 18- 24.

33. Ram Roshan Sharma and **Dinesh Singh** (2014). Vaghyanik Dhang se Seb Roag Prabandhan. Vighyan Garima Sindhu, April- June 2104: 14- 21.

34- fnus'k flag ,oa ,- ds- n~cs ¼2016½- uhacw oxhZ; Qyksa ,oa o`{kksa ds jksxksa dk lesfdr izcU/ku k Álkjnwr ekpZ 2016% 43&52-

35] fnus'k flag ¼2017½- fepZ esa yxus okys Áeq[k jksxksa dk lesfdr izcU/ku A Álkjnwr ekpZ 2017% 43&47-

36. Amar Bahadur Singh, **Dinesh Singh** and Malay M. Sharma (2018). Bacterial wilt: A serious problem in solanaceous crops production. CAU Farm Magazine. October- December, 32- 35.

37. fnus'k flag] fc'.kq ek;k cL;ky ,oa nhck dkfey (2020). Lak;qDr jk'Vª lrr fodkl y{; izkfIr esa ikni jksxfoKku k [ksrh tuojh 2020- 3-

38-] lq'khysUnz nslkbZ ,oa fnus"k flag (2020). Qlyksa ds jksxksa ij tyok;q ifjorZu dk izHkko k [ksrh tuojh 2020- 4& 6-

39- ,- ,u- f«kikBh] fnus'k flag] ds- ds- ik.Ms;] ,oa txnh'k flag (2020). vkywoxhZ; lfCt;ksa ds thok.kqtfur mdBk jksx k [ksrh tuojh 2020- 41&43-

40- jke jks'ku 'kekZ ,oa fnus'k flag (2020). Qyksa ,oa lfCt;ksa esa rqM+kbZ ckn jksx fu;U«k.k [ksrh tuojh 2020- 52&55-

41- fnus'k flag (2020). VekVj oxhZ; Qlyksa dk lesfdr jksx izcU/ku k Álkjnwr twu 2020% 18&23-

Technical Bulletin

1. Dinesh Singh, R. K. Jain (2003). Post Harvest Management of Kinnow Mandarin for Distant markets. CIPHET, Abohar.

2. **Dinesh Singh**, Manoj Kumar, Pradeep kumar Sarswat, Rajeev Kumar Jain and Desh bir Singh (2005). Kinnow Phalo Ki Surkshit Turai

Auom Isake Uparant Rakh rakhav. CIPHET, Abohar

3. Dinesh Singh, R. K. Jain, Manoj Kumar, Anil Kumar, and Desh bir Singh (2005). Bulk Handling of Kinnow mandarin. CIPHET, Abohar.

4. Dinesh Singh and A. K. Thakur (2006). Post-harvest diseases of kinnow and their management. CIPHET, Abohar.

5. Mondal, K. K. and **Dinesh Singh** (2008). Bacterial blight of Pomegranate, Division of Plant Pathology, IARI, New Delhi.

Training manual

1. Pratibha Sharma, S. C. Dubey and **Dinesh Singh** (2007). Biocontrol of plant pathogens, CAS, Div. of Plant Pathology, IARI, New Delhi.
2. Dinesh Singh, K. K. Mondal and J. Gopalakrishanan (2008). Detection of bacterial plant pathogens: Symptomatology to Advanced techniques, CAS, Div. Of Plant Pathology,

IARI, New Delhi.

3. Rashmi Aggarwal, S. C. Dubey, Dinesh Singh and R. K. Jain (2010). Pathogenomics and diagnostics- cloning and sequencing of plant pathogens and development of specific diagnostics, CAFT, Division of Plant Pathology, IARI, New Delhi.
4. Pratibha Sharma, Rashmi Aggarwal, S. C. Dubey, Dinesh Singh and R. K. Jain (2013). Understanding of mechanism of host – pathogen- bioagents interaction and sustainable biomanagement strategies for threatening crop diseases, CAFT, Division of Plant Pathology, IARI, New Delhi. 86 pages.
5. Pratibha Sharma, Dinesh Singh and G. Prakash (2014). Ecofriendly management of major diseases of crops. Model Training course (GOI), Division of Plant Pathology, IARI, New Delhi. 208 pages.
6. Pratibha Sharma, Dinesh Singh, K. K. Mondal, Parimal Sinha and Rashmi Aggarwal (2015). Genetic and pathogenic characterization towards managing nationally important plant pathogens causing wilt and blight, Division of Plant Pathology, IARI, New Delhi. 88 pages.
7. Baranwal, V. K., Robin Gogoi, Dinesh Singh and Rashmi Aggarwal (2015). Plant disease diagnostics and management. Division of Plant Pathology, ICAR-IARI, New Delhi. 108 pages.
8. Dinesh Singh, Lakshman Prasad, Bishnu Maya Bashyal and Rashmi Aggarwal (2018). *Advances in Biological Control of Plant Diseases*. Division of Plant Pathology, ICAR-IARI, New Delhi. 102 pages.
9. Rao, G. P. Prakash, H. G., Baranwal, v. k., Dinesh Singh, Kamil, D., , Sagar, D and Singh D. P. (2022). ICAR- NAHEP, training manual on identification and management of insects, pests and plant pathogens infecting nutritional crops, December 14, 2021 to January 08, 2022. , IARI, New Delhi pp 94. (TB-ICN): 269/2022.

Practical manual

1. Dinesh Singh, K. K. Mondal and Pratibha Sharma (2011). A Practical Manual on Plant Bacteriology, Division of Plant Pathology, IARI, New Delhi.
2. Pratibha Sharma, Dinesh Singh and Rashmi Aggarwal (2012). A Practical Manual on Biological control of Plant Diseases, Division of Plant Pathology, IARI, New Delhi.

Folder

1- **ifrHkk "kek ,o fnu'k flg** (2014). xkHkh oxh; lfCt ;kh jkx ,o lefdr icU/kuk lkkni jkxfoKku lHkkx] Hkkjrh; Ñf'k vuqla/kku lLFkku] ub fnYyhk

2- **fnu'k flg ,o ifrHkk "kek** (2014). VekVj d jkxk dk lefdr icU/ku klkkni jkxfoKku lHkkx] Hkkjrh; Ñf'k vuqla/kku lLFkku] ub fnYyhk

Awards and Recognition

1. **SPPS Fellow – 2007** award given by Society of Plant protection Sciences, New Delhi
2. **Dr. M. M. Alam Medal- 2008** conferredby award Bioved Research & Communication Centre, Allahabad.
3. **Young Scientist Associate Award- 2010** conferredby Bioved Research & Communication Centre, Allahabad.
4. **Fellow of Indian Phytopathological Society (FIPS)**conferredby Indian Phytopathological Society, New Delhi.
5. **Late shri P. P. Shinghal Memorial Award 2013**conferred by Society of Plant protection Sciences, New Delhi
6. **Reviewer Excellence Award2016,** conferred by Agricultural Research Communication Centre, Karnal, India.
7. **J. P. Varma Memorial lecture Award (2015)**conferred by Indian Phytopathological Society, New Delhi.
8. **NABS Fellow** (2016) conferred by National Academy of Biological Sciences, Chennai
9. **Award for Excellent in Research** (2017), conferred by Education Expo TV (FBA-17) Greater Noida-201308, UP, India
10. **Distinguished Scientist in Plant Pathology Award (2017)** conferred by Venus International Foundation, Chennai, India
11. **NESA Fellowship Award (2017),** conferred by National Environmental Science Academy, 206, Raj Tower-1, Alaknanda Community Centre, New Delhi- 110019.

12. **Plant Pathology Leadership Award (2017)** conferred by Indian Phytopathological Society (MEZ) & Departmentr of Plant Pathology, GBPUAT, Pantnagar during December 21- 23, 2017.
13. **Best Faculty Award** (2018) conferred by Education Expo TV (FBA-17) Greater Noida-201308, UP, India.
14. **Outstanding Scientist Award** (2019) conferred by VGGOd Professional Association, Chennai.
15. **Bioved Fellowship Award (2019)** conferred by Bioved Research Institute of Agriculture, Technology & Science, Allahabad.
16. **Honorary Fellowship Indian Mycological Society (FIMS) (2020)** Conferred byIndian Mycological society, Kolkata.
17. **NESA Green Technology Innovative Award- 2020** conferred by National Environmental Science Academy, New Delhi- 110019.
18. **Fellow of Asian PGPR Society 2022,** conferred by Asian PGPR Society, USA.
19. **Dr. B. P. Pal Memorial NABS- Best Scientist Award 2020**conferred by National Academy of Biological Sciences, Chennai.
20. **ISHRD Fellowship 2019-20** conferred by Indian Society of Horticultural Research & Development, Uttarakhand, India
21. **M. J. Narasimhan Medal Award for Best Research Paper (2012)** conferred by Indian Phytopathologyical Scoeicety, New Delhi. Rsearch paper entitled "Utilization of plant growth promoting *Bacillus subtilis* isolates for the management of bacterial wilt incidence in toamato caused by *Ralstonia solanacearum* race 1 biovar 3 by Dinesh Singh, D. K. Yadav, Shweta Sinha and B. K. Upadhyay, Indian Phytopath. 65 (1): 18- 24. 2012.
22. **M. J. Narasimhan Medal Award for Best Research Paper (2016)** conferred by Indian Phytopathologyical Scoeicety, New Delhi. Rsearch paper entitled "Characterization and genetic diversity of Xanthomonas campestris pv. campestris causing black rot disease in crucifers in North India by Priyanka Singh Rathour, Dinesh Singh and Richa Raghuvanshi, Indian Phytopath. 69 (2): 114- 118, 2016.
23. **Prof. K. P. V. Menon Best Poster Paper Award Commendation certificate(2009)** for the best poster presented during the International Conference on Plant Pathology in the Globaslized Era. IPS, New Delhi Nov. 10 -13, 2009.
24. **Best Poster Presentation 2010**: In National Conference on Advances in Plant Pathology 11 & 12 March 2010 at Centre for Advanced studies in Botany, University of Madras, Chennai.
25. **Third Prize** for the poster presentation in National Symposium on Sustainable citrus production: Way Forward during 27- 29, Nov. 2015 at CCRI, Nagpur.
26. **The Best Poster award 2015** conferred for Genetic variability of *Xanthomonas campestris* pv. *campestris* in North India in National Symposium " Impact of Climate change on plant – microbe interactions and its implications (ICCPMI-2015) held at BHU, Varanasi during 18- 19 December, 2015.
27. **Prof. K. P. V. Menon Best Poster Paper Award 2016** conferred for Pathogenic variations in races of *Xanthomonas campestris* pv. *campestris* causing black rot disease of crucifers by Rathour, PS, **Dinesh Singh** and R. Raghuwanshi in 6th International conference

on “Plant Pathogens and People” Challenges in Plant Pathology to benefit humankind,23- 27 February, 2016,organized by Indian Phytopathological, New Delhi.

28. **Prof. K. P. V. Menon Best Poster Paper Award 2016** conferred for Effect of basil oil based nanoemulsion coating on postharvest diseases of okra by by A. G. Gajanan, Shalini Rudra, Charanjeet Kaur, **Dinesh Singh**, Dhruba J. Sarkar, Shruti Sethi and R. K. Yadav in 6th International conference on “Plant Pathogens and People” Challenges in Plant Pathology to benefit humankind, 23- 27 February, 2016, organized by Indian Phytopathological, New Delhi.
29. **Prof. K. P. V. Menon Best Poster Paper Award 2016** conferred for Induction of defense related enzymes in tomato cultivars by *Bacillus amyloliquefaciens* DSBA-11 against bacterial wilt caused by ***Ralstonia solanacearum*** by D. K. Yadav, Garima Chaudhary and **Dinesh Singh** in 6th International conference on “Plant Pathogens and People” Challenges in Plant Pathology to benefit humankind, 23- 27 February, 2016 organized by Indian Phytopathological, New Delhi.
30. **Prof. K. P. V. Menon Best Poster Paper Award 2016** conferred for Development and application of Loop- Mediated Isothermal Amplification assay for detection of Ralstonia solanacearum byGarima Chaudhary, D. K. Yadav and **Dinesh Singh** in 6th International conference on “Plant Pathogens and People” Challenges in Plant Pathology to benefit humankind, 23- 27 February, 2016 organized by Indian Phytopathological, New Delhi.
31. **Best Poster Award 2017** conferred for “Development of rapid diagnostic protocol for detection of *Xanthomonas campestris* pv. *campestris* causing black rot of crucifers using specific primers from rpf gene sequences” by Raj Kiran, R. Kandan, P. Kumar,**Dinesh Singh**, Jameel Akhtar, Baleshwar Singh and S. C. Dubey in Delhi Chapter meeting & National Symposium on Innovative strategies for the management of plant disease under climate change scenario, held on December 19, 2017 at Division of plant Pathology, IARI, New Delhi.
32. **Best Poster Award 2019** conferred for Development and characterization of prebreeding materials for black rot resistance in cauliflower by B. B. Sharma, P. Kalia, S. Singh, V. P. Bansal, **D. Singh** and B. S. Tomar in Ist Vegetable congress on Emerging in Vegetable Research & Educatiohn , held Feb. 01- 03, 2019 at Agriculture University, Jodhpur.
33. **Best Poster Award 2019** conferred for Identification of Avr gene of *Xanthomonas campestris* pv. *campestris* for pathogenicity and specificity to cause black rot disease in crucifer crops by Amit K Kesharwani and **Dinesh Singh** in National symposium on Recent Challenges and Opportunities in Sustainable Plant Health Management held 26- 28 February, 2019 at Department of Mycology & Plant Pathology, IASc, BHU, Varanasi.
34. **Best Poster Award 2019** conferred for Direct tagging of *Ralstonia solanacearum* of PR- genes Expression pattern in resistant and susceptible cultivars of tomato plant by Garima Chaudhary, Dinesh Singh and Manju Sharma in National symposium on Recent Challenges and Opportunities in Sustainable Plant Health Management held 26- 28 February, 2019 at Department of Mycology & Plant Pathology, IASc, BHU, Varanasi.

35. **Best Poster Award 2019** conferred for(2018). Biodegradation of pesticides using *Pseudomonas fluorescens* DTPF-3**by Dinesh Singh** and Sakshi Tomar in National symposium and Delhi Chapter meeting on Microbes for integrated plant disease management and bioprospecting held on Dec. 13, 2018 at Div. of Plant Pathology, IARI, New Delhi.
36. Best Peper Award 2021 conferred in Session Machine Learning and Applications in ICICC-2021 on Classification and Activation Map Visualization of Banana Diseases Using Deep Learning Models(Paper ID: 662) by Priyanka Sahu, Anuradha Chug, Amit Prakash Singh, Dinesh Singh, Ravinder Pal Singh held at Shahid Sukhdev college of Bussiness studies, University of Delhi , New Delhi during Feb. 20- 21, 2021.
1. **The Best Oral Presentation Award 2013** conferred under theme IP & INM modules for protected cultivation in national seminar on Protected cultivation of horticultural crops and value addition at Department of horticulture, Allahabad School of Agriculture, SHIATS, Allahabad during 29- 30 November, 2013.

International Awards

Visited as Trainees at IRRI, Philippines for three month March 5- May 4, 2007

Recognition

1. Worked as chairman in Technical session III in the national symposium on Perspective in the plant health management at Department of Plant Pathology, B. A. College of Agriculture, AAU, Anand- 388 110 (Gujrat) during December 14- 16, 2010.
2. Worked as Co-chairman in session 5 inNati. Symp. On Innovative and ecofriendly research approach for plant disease management. 8- 10 Jan. 2014 at Deptt. Of Plant Pathology, Dr. Panjarao Deshmukh Krishi Vidyapeeth, Akola (MS).
3. Worked as Co-chairman in session 17: Plant Molecules: Challenges in Research 6th International Conference on Plant Pathogens and People Challenges in Plant Pathology to benefit humankind at NASC complex, New Delhi during, February 23- 27 , 2016.
4. Worked as Co –chairman, in Technical session I in the National symposium on Plant health management for sustainable agriculture organized by Deapertment of Plant Pathology, College of Agriculture, Udgir, Latur , 11- 12 December, 2016.
5. Worked as chairman, technical session 7, 8, & 9, National symposium on Diagnosis and management of plant diseases: Integrated Approaches and recent trends, 9- 11 January, 2017 at ICAR Research Complex for NEH Region, Umiam Meghalaya.
6. Worked as chairman, technical session 6 & 7. In: Special symposioum on Microbial antagonists and their role in biological control of plant diseases during October, 5- 7, 2017,at AAU, Anand (Gujrat).
7. Worked as chairman, technical session 1 in national symposium on Emerging and re-emerging plant diseases in North East India: Challenges and strategies during October 10- 11, 2017 at ICAR Research Complex for NEH Region, Manipur Centre, Imphal.
8. Worked as chairman, technical session 2 in National symposium on ecologically sustainable plant disease mamagement under diversified

farming situation during November 13- 14, 2017 SKUAST- Jammu, Jammu.

9. Worked as co-chairman, in Key note speaker session in national symposium on sustainable diseases management approaches and applications during 21- 23 September, 2017 at GBPUAT, Pant nagar.

10. Worked as co-chairman, special session on wilt diseases of crops in National symposium on plant health management: Embracing ecosustainable paradigm, during 15- 17 Feb. 2018.

11. Worked as Rapporteur in the session Prof. M. J. Narsimhan Academic Merit Award in National symposium on " current and Emerging Trends in Plant Health Management held 23- 24 August, 2018 at Goa.
12. Worked as chairman in Technical session I in the national symposium on Role of Plant Pathology in Empowering and doubling Farmers' income at ICAR Research Complex for NEH Region, Umiam, Meghalaya during October 25- 27, 2018.
13. Worked as co -chairman in Technical session III in the national conference on Biointensive Approaches in Plant Protection and their socio- economic impacts at Department of Plant Protection AMU, Aligarh, October 29- 30, 2018.
14. Worked as chairman in Technical session I Economic importance and plant protection in national workshop on Diseases of Makhana: Challenges towards diagnosis and management held 11- 12 January, 2019 at Mandan Bharti Agriculture College, Agwanpur, Saharasa (BAU, SAbour), Bihar.
15. Worked as Chairman in Technical Session 3, Microbes and Plant Health, in Internation al symposium on Nature, Microbes and Society held during February 6- 8, 2020, organized by Indian Mycological Society & Department of Botany, University of Calcutta, Kolkata.
16. Worked as Chairman in Technical Session 3, National Conference on Science and Technology in Envirnmental Management (STEM- 2020), held February 22- 23, 2020 at Bipin Bihari College, Jhansi.
17. Worked as Co- Chairman in Technical Session: Women Scientist Lectures in National Seminar on Recent Advances in Fungal Diversity, Plant – Microbes Interaction and Disease Management held February 28- 29, 2020 at Department of Botany, Institute of Science, BHU, Varanasi.
18. Worked as Chairman in Technical Session 1, 2B and 6 in poster presentation, in National conference Plant Health and Food Security: Challenges and Opportunities held March 25- 27, 2021 at ICAR- IARI, New Delhi.
19. Worked as Chairman in Technical Session II National Symposium on Plant Health Management Beyonf 2020 held at Department of Plant Pathology, DR YS Parmar University of Horticulture & Forestry, Nauni, Solan (HP) on May 5- 6 , 2021.
20. Worked as Chairman in Technical session IV of National Symposium on Novel strategies in plant stress diagnosis and management, held May 6-7, 2022 at Dr. Y. S. Parmar Univ. of Hort. & Forestry, Nauni, Solan H. P.
21. Worked as Co-chairmanin Technical session –III in the National symposium on Multidisplinary approaches for plant health management held at GB Pant University of Agriculture & Technology, Pantnagar (Uttarakhand from 4-5 November, 2022.
22. Worked as Chairman in Technical Session 2 in National symposium on plant health for sustainable agriculture, held January 6-7,

2023 at Sardar Vallabhbhai Patel Univeristy of Agriculture and Technology, Meerut.

23. Worked as chairman in technical session Modern diagnostic tool for quick identification of pathogen and new molecules in plant disease management during National symposium on climate change and plant diseases held January 23- 24, 2023 at Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar.

Honours

1. Secretary, Indian Phytopathological Society, New Delhi from 2017- 2019.
2. Treasurer, Indian Phytopathological Society, New Delhi from 2011 - 2016.
3. Councilor of North zone, Indian Phytopathological Society, New Delhi from 2008- 09.
4. Referees of several national and international journals.

Editorship of journals

1. Editor (Plant Pathology), Annals of Plant Protection Sciences, 2009- continue
2. Editor, Annals of Agricultural Research, New Delhi , 2012- continue
3. Editor, Annals of Plant & Soil Research, Agra, 2014
4. Area Editor (Agriculture), Indian Journal of Innovative research, Jhansi from 2017

Organized National / International Conference/ symposium

1. Organized one day symposium on "Capacity building in Plant Pathology", 24th July 2008 at Division of Plant pathology, IARI, New Delhi
2. Organized brain storming session on "Plant Pathology in India: Vision 2030" held at University of Hyderabad on 2nd December 2011 as Co- Organized Secretary.
3. Organized 6th International Conference on " Plant, Pathogens and People: Challenges in Plant Pathology to Benefit Humankind " held at NASC Complex, New Delhi, India during February 23- 27, 2016, Co- Organized Secretary.
4. Organized special symposium on *Microbial antagonists and their role in biological control of plant diseases* during October, 5- 7, 2017,at Department of Plant Pathology, AAU, Anand (Gujrat) asCo- Organized Secretary .
5. Organized 70th Annual meeting of Indian Phytopathological Society & National symposium on Plant health management: Embracing

Eco- sustainable paradigm at AAU, Jorhat, Assam as**Convener**.

6. Organized brainstorming session on "Blast Proofing in Agriculture" at ICAR- Indian Institute of wheat and Barley Research, Karnal- 132001 held on August 8, 2018 as **Convener**.
7. Organized National symposium on " Current and Emerging Trends in Plant Health Management held 23- 24 August, 2018 at Goa as **Convener**.
8. Organized Special National symposium on "Extension Plant Pathology: Technological Backstopping to the farmers/ other stackeholders" during 25- 26 September, 2018, organized by IPS and IGKV, Raipuras **Convener**.
9. Organized Special National symposium on "Extension Plant Pathology: Technological Backstopping to the farmers/ other stackeholders" during 25- 26 September, 2018, organized by IPS and IGKV, Raipur as **Convener** .
10. Organized national conference on Biointensive Approaches in Plant Protection and their socio- economic impacts at Department of Plant Protection AMU, Aligarh- 202002, October 29- 30, 2018 as **Convener.**
11. Organized International conference on Role of Soil and Plant Health towards achieving sustainable developmwnt goals in Asia Pacific, 21- 25, November, 2018 at Hotel RamaGradens, Bangkok, Thailand as **Co- organizer**.
12. Organized National workshop on Diseases of Makhana: Challenges towards diagnosis and management held 11- 12 January, 2019 at Mandan Bharti Agriculture College, Agwanpur, Saharasa (BAU, SAbour), Bihar as **Convener**.
13. Organized National symposium on Emerging diseases of agricultural crops and their noble management practices held 19- 20 January, 2019 at College of Agriculture, Tripura, Lembucherra, Tripura as **Convener**.
14. Organized National symposium on Recent Challenges and Opportunities in Sustainable Plant Health Management held 26- 28 February, 2019 at Department of Mycology & Plant Pathology, IASc, BHU, Varanasi as **Convener**.
15. Organized IPS- APS Joint Workshop on Decision Support System for plant disease management at IRRI South Asia Regional Centre (IRRI SARC) in Varanasi, Uttar Pradesh on February 27, 2019 as **Convener.**
16. Organized 7th International conference on Phytopathology in Achieving UN Sustainable Development Goals, January 16- 20, 2020 at ICAR- IARI, New Delhi as **Convener.**
17. Organized 7th International conference on Phytopathology in Achieving UN Sustainable Development Goals, January 16- 20, 2020 at ICAR- IARI, New Delhi as **Organizing Secretary.**
18. Organized workshop on Wilt Diseases of Solanaceous Crops in 7th International conference on Phytopathology in Achieving UN Sustainable Development Goals, January 16- 20, 2020 at ICAR- IARI, New Delhi as**Convener.**
19. Organized International e-conference on Posthavest disease management and value addition of horticultural crops during August 18- 20, 2021 at ICAR- IARI, New Delhi as**Organizing Secretary.**
20. Organized Scientist –Industry and farmer inference online on Posthavest disease management and value addition of horticultural crops on 19th August, 2021 at ICAR- IARI, New Delhi as**Convener.**

21. Organized National e- conference on “Biotic stress management strategies for achieving sustainable crop production and climate resilience held May 19-21, 2022 at ICAR- NCIPM, New Delhi as**Organizing Secretary**
22. Conducted a plenary lecture session on May 21, 2022 under National e- conference on “Biotic stress management strategies for achieving sustainable crop production and climate resilience held May 19-21, 2022 at ICAR- NCIPM, New Delhi as **Convener.**