

Dr. Sudhir Kumar Guru
Professor and Head of the Department
e-mail: skguru.bpy@gbpuat.ac.in
Contact no. 9411195441

Total number of students guided: 38

Ph. D. (Plant Physiology): 20 M Sc. / M. Sc. (Ag) Plant Physiology: 18

Administrative / Additional Responsibilities Handled

1. **In-Charge**, Department of Plant Physiology: **2011- 2012**
2. Head of the Department, Plant Physiology: **March 5, 2022**...continuing
3. **Officer on Special Duty** to Vice Chancellor (GBPUAT, Pantnagar): 2022-cont.
4. **Scientific/ Research Advisor to Hon'ble Vice Chancellor, GBPUAT, Pantnagar: 2022- 2025**

Member, Board of Studies

1. Department of Plant Physiology, Banaras Hindu University, Varanasi
2. High Altitude Plant Physiology Research centre, HNB Garhwal central University, Srinagar, Garhwal
3. Department of Plant Physiology, SKN College of Agriculture, SKNAU, Jobner Rajasthan

Member of National Level committees (ICAR)

1. Member, Course Curriculum Committee (BSMA-Plant Physiology), ICAR-2019

NAHEP-IDP project (ICAR, funded by World Bank)

Nodal Officer (Academic): 2019-2023

- i. Organized more than 300 events such as trainings, workshops, interactive sessions for development of UG students of the university.

- ii. Co-ordinated selection process and overseas visits of UG students and faculty members

HR Executive and Coordinator, Faculty development Centre (under NAHEP Component II): Organized and coordinated 15 training programmes for faculty members on on-line teaching learning tools, Pedagogy, classroom management, student counseling and Academic leadership.

Research Projects Completed (PI/Co-PI /CCPI): 07 (funded by ICAR-NASF, DST, UGC, DBT,)

Research Publications:

Review articles

1. Bartwal A, Mall R, Lohani P, **GuruSK**, Arora S **2013**. Role of Secondary Metabolites and Brassinosteroids in Plant Defense Against Environmental Stresses. **Journal of Plant Growth Regulation**. **32 (1) :216-232.**(DOI 10.1007/s00344-012-9272-x) (NAAS 10.17)
2. **Guru SK. 2016**. Herbicide Resistance and its Management. **Advances in Plants and Agricultural Research** 4(6): 159-160.
3. Pande A, Saxena SC, Thapliyal M, **Guru SK** , Kumar A and Arora S. **2018**.Role of AP2/EREBP Transcription Factor Family in Environmental Stress Tolerance. **Cell & Cellular Life Sciences Journal**, 3 (1):1-9.
4. Patni B, Chandra H, Mishra AP, **Guru SK**, Vitalini S, Iriti M.**2018**. Rice allelopathy in weed management – An integrated approach. **Cellular and Molecular Biology**,64 (8): 84-93 (P-ISSN : 0145-5680),(NAAS: 6.92)(1.372). (NAAS 7.77)
5. Rao YR, Ansari MW, Singh Anil K, Bharti N, Varsha Rani, Verma A, Gupta R, Sahoo RK, Siddiqui ZH, Abbas ZK, Bains G, Brajendra, **Guru SK**, Rakwa R, Tuteja N, Kumar VR (**2020**) Ethylene mediated physiological response for *in vitro* development of salinity tolerant tomato, Journal of Plant Interactions, 15:1, 406-416, DOI: 10.1080/17429145.2020.1820591. (NAAS 10.21)

Research papers

1. Sahoo NC, **Guru SK. 1998**. Physiological basis of yield variation in short duration cultivars of rice. **Indian J. Plant Physiol.** 3(1)NS:36-41. (5.50)
2. **Guru SK**, Chandra R, Khetrapal S, Raj A, Polisetty R. **1999**. Protein patterns in differentiating explants of chickpea (*Cicer arietinum* L.). **Indian J. Plant Physiol.** 4(3):147-151.
3. **Guru SK**, Jain V, Pal M ,Abrol YP. **1999**. Relationship between specific leaf weight and photosynthetic rate in wheat. **Indian J. Plant Physiol.** 4(2): 117-120.

4. Ramraj VM, **Guru SK**, Abrol YP. **1999**. Nitrate content in wheat leaves. *Curr. Sci.*, **76** (1): 29-30. (7.10)
5. **Guru SK**, Chandra R, Khetrapal S, Polisetty R. **1999**. Evolution of ethylene and methane in relation to somatic embryogenesis in chickpea (*Cicer arietinum* L.). *Biol. Planta*. **42**(1):149-154. (NAAS 7.75)
6. Jain V, **Guru SK**, Abrol YP. **2001**. Responses of penultimate and flag leaves of wheat to different nitrogen supply. *Biol. Planta*. **44**(3):373-378. (NAAS 7.75)
7. Bhatt MC, Srivastava A, Srivastava PC, **Guru SK**, Singh G. **2004**. Persistence of 2,4-D in water and its effect on aquatic life. *Pesticide Res. J.* **16**(1):58-61. (NAAS 5.49)
8. **Guru SK**, Singh G. **2005**. Emergence of some rainy and winter season weeds from different soil depths. *Indian J. Weed Sci.* **37** (1&2):149:151. (NAAS 5.84)
9. Bisht S and **Guru SK**. **2006**. Seed production potential and germination behaviour of some problematic weeds of winter season weeds. *Indian J Weed Science*. **38** (1&2): 169-172.
10. Srivastava A, Agarwal V, Srivastava PC, **Guru SK**, Singh G. **2006**. Leaching of sulfosulfuron from two texturally different soils under saturated moisture regime. *International J. Food Agriculture and Environment*. **4**(2): 287-290. (ISSN 1459-0255).
11. Singh G and **Guru SK**. **2007**. Multiple shoot induction in intact shoot tip, excised shoot tip and nodal segment explants of *Rauwolfia serpentina*. *Indian J. Plant Physiol.* **12** (4)(NS): 360-365.
12. Arora A, Singh RP and **Guru SK** .**2008**. Determination of bioactive compounds in medicinal mushroom, *Cordyceps sinensis*. *Mushroom Res.***17**(2): 61-66. (NAAS 4.34)
13. Kumar P, Kaur D, Srivastava R.C and **Guru SK**. **2008**. Using chlorophyll fluorescence to study the effect of sulfosulfuron and surfactants on little seed canary grass. *Indian J. Weed Sci.***40** (3&4) : 166-169.
14. Kumar R, Taware R, Gaur VS, **Guru SK**, Kumar A. **2009**. Influence of nitrogen on the expression of TaDof transcription factor in wheat and its relationship with photosynthesis and ammonium assimilating efficiency. *Molecular Biology Reports*.**36**: 2209-2220. (DOI10.1007/s110033-008-9436-8). (NAAS 8.32)
15. Shyam R, Singh Rohitashav, Singh V.K. and **Guru S.K.****2009**. Effect of wheat establishment methods and weed management practices on weed dynamics and productivity of wheat grown in succession to rice. *Indian J. Weed Sci* . **41**(1&2) : 70-72.
16. Rai S, Gaur A. K, **Guru S. K.**, Agrawal S. and Arora S. **2009**. *In vitro* evaluation of relative tolerance of *Eleusinecoracana* genotypes against water deficit stress. *Indian Journal of Plant Physiology*, **14** (1); 82-87.
17. Bahuguna R N, Pandey M, Nath M, **Guru SK**, Kumar J. Shukla A. **2009**. Physiological evaluation of *Trichoderma harzianum* against sheath blight in rice. *Indian Journal of Plant Physiology*, **14**(2): 205- 08. (Print ISSN : 0019-5502. Online ISSN : 0974-0252)
18. Bisht S. Bhatt A. Yadav U. Siddique S and **Guru S.K.****2010**. Physiological growth parameters of problematic weed species of winter season. *New Agriculturist*, Vol. 21 No. (1,2). (NAAS 3.92)

19. Panwar GS and **Guru SK.2011**. Alkaloid Profiling and Estimation of Reserpine in *Rauwolfia serpentina* Plant by TLC, HP-TLC and HPLC. **Asian Journal of Plant Sciences**, 10: 393-400.(DOI:[10.3923/ajps.2011.393.400](https://doi.org/10.3923/ajps.2011.393.400))
20. Panwar G.S., Attitalla I. H. and **Guru S.K. 2011**. An Efficient *in vitro* Clonal Propagation and Estimation of Reserpine Content in Different Plant Parts of *Rauwolfia serpentina*L. **American-Eurasian Journal of Scientific Research** 6 (4): 217-222, 2011. (ISSN 1818-6785).
21. Singh P and **Guru SK. 2011**.Effect of rice straw incorporation on weed management and crop growth in rice. **Indian J. Weed Sci.** 43(3&4):236-238.
22. Chaturvedi S., Pandey J., Dhyani V.C., **Guru S.K.**, Kaushal R. **2012**. Phytotoxic potential of Eucalyptus leaf essential oil to control *Parthenium hysterophorus* L. **Allelopathy J.** 29(2):315-324 (ISSN, Print: 0971-4693. Online: 0974-1240) (6.96)
23. Patni B and **Guru SK. 2012**. Morphophysiological and biochemical parameters associated with competitive ability of rice genotypes against weeds. **Indian J Plant Physiol.** Vol. 17, No. 3&4, (N.S.) pp. 215-223.
24. Singh VP, **Guru SK**, Kumar A, Banga A, Tripathi N. **2012**. Bioefficacy of tembotrione against mixed weed complex in maize. **Indian J Weed Sci.**, 44(1): 1-5. (Naas 5.84)
25. **Guru S K** and Panwar GS. **2012**. Influence of Gibberellic acid and seed coat removal on the seed germination behavior of *Rauwolfiaserpentina* L. under controlled environment. **Journal of Non-Timber Forest Products**,19 (1):1-4.
26. Chandola P, Dhyani K, Bhandari K, **Guru SK. 2012**.Effect of pre-emergence herbicides and hand weeding on the weed dry weight and grain yield of transplanted rice. **Journal of Sustainable Environmental Research** 1 (2): 121-123.
27. Srivastava N, Singh D, Shukla A, **Guru S.K.**, Singh M, Rana DS. **2012**. Effect of high temperature stress at post-anthesis stage on photosystem II, senescence, yield and yield attributes of wheat genotypes.**Indian J Plant Physiol.** 17(2):158–165.
28. G.S. Panwar, **S.K. Guru. 2013**.Influence of the Culture Medium Nitrogen Concentration on Alkaloid Profile and Reserpine Content of the *Rauwolfia serpentina* Plant Roots. **The Indian Forester**, 139(1):69-74. (NAAS 5.10)
29. Anjani, Shukla A, Shukla Alok and **Guru SK. 2013**. Histological Characterization of Embryogenic and Non-embryogenic Calli of *Jatropha curcas* L. **The Indian Forester**139 (3): 244-247. (NAAS 5.10)
30. Lakshmanakumar P., Bana O.P.S. and **Guru S.K.2013**. Physiological basis of yield variability in wheat (*Triticum aestivum* L.) under varying degrees of shades. **Indian Journal of Plant Physiology**,18(2):164–168 (DOI 10.1007/s40502-013-0028-9). (NAAS 5.5)
31. Lakshmanakumar P. and **Guru SK. 2014**. Growth indices of yield variability in wheat (*Triticum aestivum*L.) under varying degree of shades. **Journal of Hill Agriculture**, 5 (2) 106-113.
32. Sharma R, Pandey ST, Verma O, Joshi N, Srivatava RC and **Guru SK.2014**. Effect of physical and metaphysical energy on germination and seedling vigor of Chick

pea. **International Journal of Basic and Applied Agricultural Research**, 12(3):339-346 . (NAAS 3.71)

33. Singh G and **Guru SK. 2015.** Stimulation of reserpine production in the whole plant culture of *Rauwolfia serpentina* L. by elicitors and precursor feeding. **Journal of Plant Biochemistry and Biotechnology**, 24(1):49-55. (DOI 10.1007/s13562-013-0235-5). (NAAS 7.18)
34. Joshi N, Singh VP, Dhyani VC, Chandra S and **Guru SK. 2015.** Weed management under different planting geometry in dry direct-seeded rice. **Indian Journal of Weed Science** 47(2): 203–205.
35. Chandola P, Bhandari K and **Guru SK. 2015.** Effect of pre-emergence herbicides on weed growth and physiological traits of transplanted rice. **Indian Journal of Weed Science** 47(4):345-348.
36. Kailkhura S, Pratap T, Singh VP, **Guru SK** and Singh SP. 2015. Herbicide combinations for control of complex weed flora in transplanted rice. **Indian Journal of Weed Science** 47(4):414-416.
37. Patni B, Sharma A and **Guru SK. 2015.** Role of the elicitor compound methyl salicylate in enhancing allelopathic potential of rice for sustainable weed management. **International Journal of Scientific Research** 4(4):30-37.
38. Kumar N. **Guru SK. 2016.** Herbicide resistance mechanism of *Phalaris minor* in Uttarakhand. **Journal of Crop and Weed** 12 (2):129-133 (NAAS 5.46)
39. Shalini, Singh VP, Chandra S, Singh DK Gautam P, **Guru SK. 2016.** Growth and yield of direct seeded rice fertilized with zinc, iron and organic manures. **Bioinfolet** 13(4): 628-631. (Print ISSN : 0973-1431)
40. Bhandari NS, Srivastava R, Kantiya SP, **Guru SK. 2016.** Dynamic interventions for programmed liliom (*Lilium longiflorum* L.) production in container system. **Research on Crops** 17(3): 590-594 (Print ISSN : 0972-3226. Online ISSN : 2348-7542). (NAAS 4.56)
41. Singh Gurvinder, Chandra S, **Guru SK**, Yadav VR, Mandal T, Samarth. 2016. Late sown wheat (*Triticum aestivum* L.) response to crop establishment methods, chemical sprays and post-flowering irrigation in tarai belt of Uttarakhand. **Research on Crops** 17(4): 666-672. (DOI: [10.5958/2348-7542.2016.00112.1](https://doi.org/10.5958/2348-7542.2016.00112.1))
42. Lakshmanakumar P. and **Guru SK. 2017.** Path coefficient analysis of different wheat varieties under varying degree of shade. **Journal of Hill Agriculture**, 8 (1) 56-60.
43. Bhandari NS, Srivastava R, Kantiya SP, **Guru SK**, Goshwami V. 2017. Assessment of substrates for liliom (*Lilium longiflorum*) forcing in container system. **Indian Journal of Agricultural Sciences** 87(5):677-680 · May 2017. (NAAS 6.37)
44. Paliwal A, Singh VP, **Guru SK**, Pratap T, Singh SP, Chandra S and Kumar R. 2017. Soil physical properties as influenced by different conservation agriculture practices in rice-wheat system. **International Journal of Chemical Studies** 5(4): 757-761. (NAAS 5.31)
45. Bhandari K and **Guru S.K. 2017.** Inhibitory effects of rice straw on the germination and seedling growth of some major weeds of wheat. **Indian Journal of Weed Science**. 49(2): 194–197.

46. Chandra A, **Guru SK** and Thakur TC. **2017**. Impact of different tillage practices on soil biochemical parameters, root and shoot growth and yield attributes of winter wheat. **Journal of Pharmacognosy and Phytochemistry**, 6(5): 1915-1922.
47. Paliwal A, Singh VP, Bhimwal JP, Joshi N, Singh SP, Pratap T, **Guru SK**, Kumar A. **2017**. Rice productivity under different weed management and establishment methods. **Indian Journal of Weed Science**. **49**(1): 5–9.
48. Verma O, Joshi N, Pandey S T, Srivastava R C, **Guru S K**. **2017**. Comparative Study of Hydropriming to Static Magnetic Field on Seedling Vigour and Enzyme Activity in Wheat Seed. **Agric Res** 6(3):235–240.(NAAS 5.95)
49. Yadav VR, Singh VP and **Guru SK**. **2017**. Weed management approaches in transplanted rice in Mollisols of Uttarakhand. **Indian Journal of Weed Science**, **49**(3): 279–282.
50. Joshi HC, Joshi B, **Guru SK**, Shankhdhar SC, Kumar A, Mahapatra B, Nautiyal MK, Singh P. **2017**. Consequences of integrated use of organic and inorganic fertilisers on yield and yield elements of rice. **International Journal of Agricultural Science and Research (IJASR)** **7**(5): 163-166.
51. Joshi HC, Shukla A, **Guru SK**, Singh KP, Singh P. **2017**. Nanotechnology: Application in the field of agriculture. **Journal of Plant Development Sciences** Vol. **9** (8) : 731-737. (NAAS 4.13)
52. Praharaj S, Singh Dheer, **Guru SK** and Meena B R. **2017**. Effect of Plant Growth Regulators on Tiller Dynamics and Yield of Sugarcane (*Saccharum officinarum* L.). **International Journal of Bio-resource and Stress Management**.8(1):075 – 078. (NAAS 5.11) (ISSN 0976-3988)
53. Agarwal C ,**Guru SK** and Patni B. **2017**. Bioefficacy of herbicides and eucalyptus oil for weed management and their effect on crop growth in rice. **Journal of Plant Development Sciences** Vol. 9(11) : 991-997. (NAAS 4.13)
54. Bhaskar R, Verma O, Shukla DK, Singh VK, **Guru SK**, Reena. **2018**. Yield and seed quality of mungbean (*Vigna radiata* L. Wilczek) in response to foliar spray of nutrients and growth regulators. **International Journal of Agriculture Sciences**,10 (24):7639-7643. ISSN 0975-3710. (NAAS 4.58)
55. Joshi HC, Singh P ,**Guru SK**, Mohapatra BS. **2018**. Changes in the chemical properties of soil during conversion period from conventional system to organic system. **ENVIS Bulletin Himayalan Ecology**25: 36-40.

56. Chandra A, **Guru SK** , Thakur TC, Mahanta D. **2018**. Impact of tillage and plane of fertilizer application on root attributes and yield of winter wheat. **International Journal of Chemical Studies**, 6(2): 2250-2256.
57. Arvind Shivangi, Lal S, Singh CP, **Guru SK** and KumarR. **2018**. Effect of leaf to fruit ratios on the physico-chemical quality of guava (*Psidium guajava* L.) cv. Pant Parabhat planted under high density. **International Journal of Chemical Studies**, 6(2): 2332-2335.
58. Chandra A, Joshi B and **Guru SK**. **2018**. A comparative study on tillage practices and their impact on soil properties and root attributes of plants. **International Journal of Chemical Studies**, 6(2): 2257-2263
59. Prinsa, Kumar N, Mishra S, Joshi B and **Guru SK**. **2018**. Bio-efficacy of pre- & post-emergence herbicides in controlling three problematic weed species of wheat & pea crops in winter season **International Journal of Chemical Studies** 6(5): 1710-1715.
60. Praharaj S, Singh D and **Guru SK**. **2018**. Yield and Juice Quality of Sugarcane as Influenced by Ethephon and Gibberellic Acid. **International Journal of Current Microbiology and Applied Sciences**, 1647-1652..(doi: <https://doi.org/10.20546/ijcmas.2018.711.187>)
61. Prinsa, Joshi H and **Guru SK**. **2018**. Evaluation of Herbicidal Efficacy for Management of Isoproturon-Resistant *Phalaris minor*. **Int.J.Curr.Microbiol.App.Sci**. 7(12): 1067-1077.
62. Patni B, **Guru SK**, Iriti M, Vitalini S. **2019**. Elicitation of the allelopathic potential of rice by methyl salicylate treatment . - **Applied Sciences** 9(22):4881. (NAAS 8.68)
63. Bhaskar R, Verma O, Shukla DK, Singh VK, **Guru SK**, Reena. **2019**. Yield and seed quality of mungbean (*Vigna radiata* L. Wilczek) in response to foliar spray of nutrients and growth regulators. **Journal of Food Legumes**, 32(2): 84-89. Print ISSN : 0970-6380 (NAAS 4.82)
64. Bhaskar R, Verma O, Shukla DK, Singh VK, **Guru SK**. **2019**. Effect of foliar sprays with nutrients and growth regulators on seeding vigour and enzyme activity in mung bean. **Seed Research** 47(1): 65-71
65. Kashyap S, Singh VP, **GuruSK** , Pratap T, Singh SP and PraharajS. **2019**. Integrated Weed Control Option for Dry Direct Seeded Rice under Irrigated Ecosystem. **Int. J. Curr. Microbiol. App. Sci**. 8(2): 315-323.
66. Sarvadamana AK, Singh VP, **Guru SK**, Singh SP, Tej Pratap, Sirazuddin and Nath S. **2019**. Allelopathic effect of sorghum and sunflower on *Phalaris minor* and wheat. **Indian Journal of Weed Science** 51(4): 390–392.
67. SarvadamanaAK, Singh VP, **Guru SK**, SP Singh SP. **2019**. Allelopathic Potential Assessment of Sorghum and Sunflower on Germination Characteristics of *Phalaris minor* and Wheat. **Int.J.Curr.Microbiol.App.Sci** 8(10): 256-260
68. Prinsa, Joshi HC, Joshi Babita and **GuruSK**. **2019**. Management of Isoproturon-Resistant *Phalaris minor* in Wheat by Alternate Herbicides under Tarai Region Conditions. **Journal of Agricultural Science and Food Research** (J Agri Sci Food Res) 10: (263) 1-8. doi: 10.35248/2593-9173.19.10.263.

69. Joshi Babita, Mishra S, Prinsa, Singh DK and **Guru SK. 2019.** Effect of differential nutrient management on growth and yield components in late sown rice (*Oryza sativa* L.). **Journal of Pharmacognosy and Phytochemistry** 8(5): 1891-1899
70. Sirazuddin, Singh VP, Chandra S, Singh SP, **Guru SK**, Pareek N, Sarvadamana AK and Paliwal A. **2019.** Growth and Productivity of Wheat under Tillage Systems and Residue Loads in Tarai Region of Uttarakhand, India. **Int.J.Curr.Microbiol.App.Sci** (2019) 8(8): 11-19.
71. Joshi HC, Prakash O, Nautiyal MK, Mahapatra BS, **Guru SK. 2019.** A Comparison between the Grain Quality Parameters of Rice Grown under Organic and Inorganic Production System. **Universal Journal of Plant Science** 7(2): 19-27, 2019.
72. Rashmi Sharma, Pandey ST, Verma O, Srivastava RC and **Guru SK. 2020.** Physiological seedling vigour parameters of wheat as influenced by different seed invigoration techniques. **International Journal of Chemical Studies** 2020; 8(1): 1549-1552.
73. Mishra S, Joshi B, Dey P, Nayak P and Guru SK. **2020.** Effect of shading on growth, development and reproductive biology of *Phalaris minor* Retz. **Journal of Pharmacognosy and Phytochemistry**, 9(1): 803-807
74. Kashyap S, Singh VP, **Guru SK**, Paratp T, Singh SP, Praveen BR. **2020.** Effect of different integrated weed management practices on yield and economics of dry direct seeded rice. **International Journal of Chemical Studies** 2020; 8(1): 1861-1865.
75. Gaur A, Om Prakash, Joshi HC, Kumar A, Verma A, **Guru SK**, Nautiyal SN. **2020.** Overview of Coronavirus Behavior in Hill State Uttarakhand and Most Affected States in India. **Int.J.Curr.Microbiol.App.Sci (2020)** 9(7): 3078-3088.
76. Kumari J, Srivastava R, Bhuj BD, **Guru SK**, Kumar A, Chand Satish. **2020.** Influence of doses of water soluble fertilizers through drip irrigation on flowering and yield in tuberose (*Polianthes tuberosa* L.) cv. Prajwal. **International Journal of Chemical Studies** 2020; 8(1): 2879-2882
77. Paliwal A, V Pratap Singh, Tej Pratap, SP Singh, **SK Guru**, Neeshu Joshi, A Kumar. **2020.** Tillage and weed control effect on weeds and wheat productivity. **Indian Journal of Weed Science**, 52 (2): 132-137.
78. Maurya K, Joshi HC, Shankhdhar SC, **Guru SK**, Gaur AK, Nautiyal MK and Kumar Atul. **2021.** Evaluation of Some Rice (*Oryza sativa* L.) Genotypes for Drought Tolerance. **Int.J.Curr.Microbiol.App.Sci(2021)** 10(02): 3294-3301.
79. Khudus S, Kumar A, Srivastava R, Bhuj BD, Chand S and **Guru SK. 2021.** Influence of Organic and Biodynamic Manures on Soil Microbial Dynamics and Soil Nutrient Parameters in Chrysanthemum (*Dendranthema grandiflora* Tzvelev) cv. Thai Chen Queen. *Chemical Science Review and Letters*, 10 (39), 336-342. (NAAS 4.75)
80. Nalini P, Ratna Rai, Ranjan Srivastava, Sandeep Arora and Guru SK. **2021.** An efficient protocol for in vitro propagation of strawberry cv. Chandler through shoot tip culture. **Progressive Horticulture**, 53(1): 30-35. (NAAS 4.49) (ISSN 0970-3020)

81. Choudhary A, Kumar Ajit, Nayak A, Bhuj BD, Srivatstava R Rao VK and Guru SK. 2021. Response of NPK through drip fertigation on growth and floral parameters of Chrysanthemum. *Biological Forum* 13 (3): 398-401. (NAAS 5.11) (ISSN P 0975- 1130)
82. Kashyap S, Singh V.P., **Guru S.K.**, Tej Pratap, Singh S.P., Kumar R. **2022**. Effect of Integrated Weed Management on Weed and Yield of Direct Seeded Rice. **Indian Journal of Agricultural Research**, 56(1): 33-37 (NAAS 5.20) (ISSN 0367--8245)
83. Gaurav K, Verma O, Chandra Subhash, **Guru SK** and Gautam P. **2022**. Response of timely and late sown wheat (*Triticum aestivum* L.) in relation to different foliar applied nutrients, growth regulators and their spraying schedule on leaf area index, relative water content and canopy temperature. **The Pharma Innovation Journal** 2022; 11(9): 2705-2711. (NAAS rating 5.32) (ISSN (E): 2277-7695 ISSN (P): 2349-8242).
84. Jat R, Singh VP, Guru SK, Shivran JS, Adhikary K. **2022**. Weed Dynamics as Influenced by drip irrigation and mulching in Guava. **Journal of Crop and Weed** 18(3): 01-08. (ISSN 0974-6315) (5.46)
85. Mishra S, Panwar M, Anjali, **Guru SK**. **2022**. Foliar zinc application affects yield associated traits, zinc response curve and zinc utilization efficiency in wheat. **The Pharma Innovation Journal**, 11 (6), 538-545
86. **Guru SK**, Saxena P, Borah L, Paul V, Pandey R and **Govindjee G**. **2023**. Honoring Dinesh Chandra Uprety (1945-2023): A great teacher, an outstanding scientist and a wonderful human being. **The Journal of Plant Science Research (JSPR)**, 39 (2):1-13.
87. Joshi HC and **Guru SK** . **2023**. Organic Basmati rice production in India: Challenges and Opportunities. **OAKS** ,ISSN: 0975-5918Issue:
88. Anjali, Panwar M, Mishra S, Pachauri SP, **Guru SK**. **2023**. Effects of foliar application of boron on yield and yield associated traits in wheat (*Triticum aestivum* L.). **The Pharma Innovation Journal** 2023; 12(2): 2072-2075.
89. Panwar M, Anjali, Mishra S, Pachauri SP, **Guru SK**. **2023**.Effect of foliar zinc nutrition on yield and zinc use efficiency of rice (*Oryza sativa*). **The Pharma Innovation Journal** 2023; 12(2): 2205-2208.
90. Nain P, Raverkar KP, Chandra R, Pareek N, **Guru SK**, Bhandri G. **2023**.Characterization of pine needle and pine needle biochar: a potential soil amendment for sustainable forest waste management. **Annals of Plant and Soil Research** 25 (2): 211-220 (2023).

91. Priyadarshini V, Rao VK, Bhuj BD, Dimri DC, **Guru SK** and Raverkar KP. **2023**.Effect of fertigation and mulching on growth and flowering of marigold (*Tagetes erecta* L.) cv Pusa Narangi Gaiinda. **The Pharma Innovation Journal** 2023; 12(8): 1412-1415.
92. Jat R, Singh VP, **Guru SK**, Shivran JS AND Adhikary K. **2023**.Weed dynamics as influenced by drip irrigation and mulching in guava. **Journal of Crop and Weed**, 18(3): 92-99 (2022).
93. Mishra S, Singh T, Kothari M, Choudhary M, and **Guru SK**. **2024**. Effect of foliar application of zinc on leaf expanse, dry matter accumulation and its correlation with grain yield in wheat. **Journal of Experimental Agriculture International** 46 (7):549-57. (ISSN: 2457-0591)(NAAS score 5.14) (<https://doi.org/10.9734/jeai/2024/v46i72608>)
94. Mishra S, Anjali K, Panwar M, Saini P, and **Guru SK**. **2024**. Enhancing wheat growth and yield through foliar application of zinc in combination with methionine, histidine and citric acid as chelators. **Journal of Scientific Research and Reports** 30 (7):384-93. <https://doi.org/10.9734/jsrr/2024/v30i72155> (NAAS rating 5.17).
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