

### **Books published**

- 1 Arunima Kumari. 2016. Communication & Journalism two faces of the same coin, Write & Print Publishers, New Delh: 172 p.
- 2 C.M. Singh, S. B. Mishra and Anil Pandey. 2015. Genetics of Agro-morphological Yield Determinants in *Vigna radiata* L., Lambert Academic Publshing, Germany: 321 p.
- 3 D. Jha and Shishir Kala. 2015. Rkjdkjh v©j Qy`a dh [ksrh, C.K. Publication, Darbhanga: 256 p.
- 4 Sanjay Kumar. 2015. A Numerical Approach in Agriculture Engineering with Objectives (3<sup>rd</sup> revised Edition), Kalyani Publication, Ludhiyana: 872 p.
- 5 Tanweer Alam, M. S. Ali, S.V.S. Raju and M. Raghuraman. 2015. A Text book of Fundamental and Applied Entomology, Kalyani Publishers: 310 p.

### **Book Chapters Publication**

1. Ankita Anu, Sangita Sahni, Pankaj Kumar, and Bishun Deo Prasad. 2016. Secondary metabolites in Horticultural crops in *Plant Secondary Metabolites: Volume 1: Biological and Therapeutic Significance*, Apple Academic Press, USA: 204-214.
2. Aradhana Singh, Shama Parveen, Much Ram, Rishi K. Sahu, Madhuri Arya, S P singh and A. K. Singh. 2015. Alleviation of cadmium induced genotoxicity and lipid peroxidation in allium cepa by exogenously applied salicylic acid in *Novel Innovations and Strategies for boosting Production and Productivity in Agriculture*, LAP Germany:1-6.
3. Bishun Deo Prasad, Sangita Sahni and Wasim Siddiqui. 2015. Biotechnological approaches to improve post harvest quality for fruits and vegetables in *Postharvest Biology and Technology of Horticultural Crops: Principles and Practices for Quality Maintenance*, CRC Press, USA: 491-504.
4. M. N. Jha, M. Kumar and S. K. Chourasia. 2015. Preponderance and relationship of agromicrobes with maize ecosystem in Plant-Microbe Interaction, (Ed. K. Ramasamy & K Kumar), NIPA, New Delhi: 273-290.
5. Rani A, Kumar M and Kumar S. 2015. Ashwagandha-a miracle medicinal crop. Medicinal plant (distribution, utilization and significance) in Conservation and cultivation of medicinal plants. Tilak Publishing House Pvt. Ltd. ISBN no.: 978-93-5056-734-0:174-197.
6. Rani, A., Kumar, M. and Kumar S. 2015. Conservation of endangered medicinal plants through plant tissue culture in Conservation and cultivation of medicinal plants. Tilak Publishing House Pvt. Ltd. ISBN No.: 978-93-5056-740-1:67-95.

7. Sangita Sahni and Bishun Deo Prasad. 2015. PGPR: Plant Beneficial Function Contributing (PBFC) genes and their function in Microbial Empowerment in Agriculture: A Key to Sustainability and Crop Productivity, BIOTECH BOOKS, Publishers of Agriculture and Bio-Sciences: 61-79.
8. Sangita Sahni, Bishun Deo Prasad and Sunita Kumari. 2016. Diseases of makhana crops and their management in *Crop diseases and their management, integrated approaches*, Apple Academic Press, USA: 337-343.
9. Sunil K Katiyar, H.C. Singh, Shama Parveen, Aprajita Singh and Madhuri. 2015. Genetic analysis of green pod yield in table pea in *Novel Innovations and Strategies for boosting Production and Productivity in Agriculture*, LAP Germany: 329-332.
10. Sunil K Katiyar, H. C. Singh, Shama Parveen, Aprajita Singh and Madhuri Arya. 2015. Genetic analysis and selection parameter in table pea (*Pisum Sativum* L.) Under rainfed environment in *Novel Innovations and Strategies for boosting Production and Productivity in Agriculture*, LAP Germany: 352-358.

## **Research Papers Published**

1. Agarwal R and Kumar H 2016. Effect of kinetin concentration on callus formation from cultured seeds of rice. *Adv Life Sci.* 5: 88-90.
2. Ahmad, Md Abbas, Khan MS and Agnihotri Meena 2016. Effect of different chickpea varieties on development of the pulse beetle, *Callosobruchus chinensis* (L.). *Intern. J. Plant Protec.* 9(1):
3. Alam T, Ali, MS, Sitanshu and Kumar KR 2015. Studies on association of insect species with phenological growth of *Tectona grandis* in North Bihar. *Annals of Plant and Soil Research.* 17 (Special issue): 57-59.
4. Ali, MS, Alam T, Kumar KR and Sitanshu 2015. Occurrence, host spectrum and host specificity of bark eating caterpillar, *Inderbela quadrinotata* Walk in relation to Agroforestry woody plant of Bihar. *Annals of Plant and Soil Research.* 17 (Special issue): 320-323.
5. Ali MS, Alam T, Kumar KR and Sitanshu 2015. Survey of major insect fauna associated with different agroforestry conditions. *Annals of Plant and Soil Research.* 17 (Special issue): 317-319.
6. Ansari MN 2015. Differential characteristics of viewers and non-viewers of farm TV programme, *J. of Communication Studies.* XXXIII:18-24.
7. Arya M, Singh A, Singh HC, Parveen S, Kumar M, Mukh Ram and Shalini S 2015. Genetic Analysis of Heterotic Crosses in Rice (*Oryza sativa* L.) under Rainfed Ecosystem. *International Journal of Bio-resource and Stress Management.* 6(1):51-62.
8. Banerjee S, Mukherjee A, Sattar A and Biswas B 2015. Change detection of annual temperature and rainfall in Kalimpong station under hill zone of West Bengal. *Indian J. Hill Farming.* 28:81-84.
9. Bharti Premlata, Singh SPN and Kumar N 2015. Efficacy of some insecticides, bio-products and their phytotonic effect against gram pod borer (*Helicoverpa armigera* Hüb.) in chickpea. *Current Biotica.* (Accepted).
10. Bhushan S, Kumar R and Shamim MZ 2015. Effect of different genotypes on in-vitro culture of wheat (*Triticum aestivum* L.) *Int J Recent Adv Biotech.* 1 & 1.
11. Bhushan S, Kumar R and Kumar H 2015. An efficient *Agrobacterium* mediated transformation method in bread wheat (*Triticum aestivum* L.). *Trends in Biosciences.* 8:3131-3134.

12. Chand H, Kumar A, Paswan S, Dwivedi GP 2015. Efficacy of IPM modules against sugarcane, *Chilo tumidicostalis* under sub-tropical condition. *Environment & Ecology*. 14(2A):665-667.
13. Chand H, Kumar A, Paswan S and Dwivedi GP 2015. Efficacy and economics of insecticides against *Chilo infuscatellus* Snell. And *Emmalocera depressella* Swinhoe in Sugarcane. *Ann Pl Protec Sci*. 23(2):298-301.
14. Chandra R and Singh PK 2015. Effect of drip and surface irrigation on growth, yield and water use efficiency of broccoli grown under mulch and non mulch conditions in Tarai condition of Uttarakhand. *International Journal of Basic and Applied Agricultural Research*. 13(1):101-4.
15. Chandra S and Kumar S 2015. Optimization of soaking time and effect of sprouting duration on yield in direct seeded rice cultivation using drum seeder. *Agricultural Engineering Today*. 39(1):57-61.
16. Chandra S and Nathani AK 2015. Performance evaluation of Farm Machine Banks in Bihar through field, economic and user's response analysis. *Agricultural Engineering Today*. 39(2):25-31.
17. Chandra S, Khushboo, Nilanjaya and Kumar P 2015. Study of Interrelationship and cause-effect of morpho-physiological characters of rice under normal and aerobic conditions. *The Ecoscan*. 9 (1&2):643-651, 2015.
18. Chandra S, Khushboo, Nilanjaya and Kumar P 2015. Study of Interrelationship and cause-effect of morpho-physiological characters of rice under normal and aerobic conditions. *The Ecoscan*. 9(1&2):643-651 (Supplement on Rice).
19. Chandra S, Kumar M and Kumar S 2015. Field and Economic Performance of Tillage Implements under Dry and Wet Land Situation. *Environment & Ecology*. 34(3A):1150-1154.
20. Choudhary RC, Sharma NK, Kumar R and Kumar M 2015. Heat stress induced male sterility of wheat varieties at a thesis in relation to high temperature. *Ann Pl Soil Res*. 17:175-179.
21. Choudhary RC, Sharma NK and Kumar R 2015. A simple and reliable extraction of genomic DNA for microsatellite analysis in wheat: an easy approach. *Environment Ecology*.

22. Choudhary RC, Sharma NK, Kumar R and Kumar M 2015. Genetic variability, heritability and genetic advance in Wheat under different normal and heat stressed environments. *Electron J Pl Breeding*. 6(4):1082-1087.
23. Choudhary RK, Rao AR, Wahi SD and Mishra AK 2016. Detection of biennial rhythm and estimation of repeatability in mango (*Mangifera indica* L.) *Indian J. Genetics & Plant Breeding*. 76(1):88-97.
24. Das DK, Laik R and Chaturvedi OP 2015. Biomass production and nutrient dynamics of *Acacia lenticularis* (L.) Willd - *Curcuma domestica* Valetton agroforestry systems in north-west alluvial plain of Bihar. *Indian Journal of Agroforestry*. 17(1):74-80.
25. Dipti, Joab N, Kiran and Singh SP 2015. Organo-chlorine insecticide residues in water. *RAU Journal of Research*. 25(1&2):39-42.
26. Eqbal, M. J., Sahni, S., Singh D and Kumar B 2015. Exploitation of urdbean germplasms for MYMV management and improved seed yield. *International Journal of Agriculture Sciences*. 7(6):536-539.
27. Eqbal M. J., Sahni S. and Singh Devendra 2016. The Relative Efficacy of Various Conventional and Non-Conventional Chemicals against MYMV of Urdbean and their Economics. *Ecology, Environment and Conservation*. (3):
28. Jha CK, Sinha SK, Alam M and Pandey SS 2015. Effect of bio-compost and zinc application on sugarcane (*Saccharum species hybrid complex*) productivity, quality and soil health. *Indian Journal of Agronomy*. 60(3):450-465.
29. Jha S, Suman SN, Singh MP and Prasad J 2015. Development of Targeted Yield Equations under Integrated Nutrient Management (Vermicompost) for Rice-Winter Maize Cropping System. *RAU Journal of Research*. 25(1&2)29-33.
30. Kumar A, Singh NK, Kumar R, Sharma VK, Rai B, and Dayaram 2015. Estimation of genetic components for yield in rice using generation mean analysis. *Oryza*. 52(4):284-291.
31. Kumar A, Ravi Kant, Singh SK and Singh CM 2016. Exploitation of hybrid vigour for identification of superior crosses in greengram *Vigna radiata* L. (Wilczek) *Green Farming*. 7(4):
32. Kamat DN, Singh SP, Jeena AS, Khan KA, Kumar A and Kumar V 2015. Performance of early maturing sugarcane clones across the environments for cane and sugar yield. *Frontiers in Crop Improvement*. 3(2):131-136.

33. Kiran and Suman S 2015. Antioxidant activity of Curcuma Species. RAU Journal of Research. 25(1&2):47-50.
34. Krishnamurthy SL, Sharma SK, Sharma DK, Sharma PC, Singh YP, Mishra VK, Burman D, Maji B, Bandyopadhyay BK, Mandal S, Sarangi SK, Gautam RK, Singh PK, Manohara KK, Marandi BC, Singh DP, Padmavathi G, Vanve PB, Patil KD, Thirumeni S, Verma OP, Khan AH, Tiwari S, Shakila M, Ismail AM, Gregorio GB and Singh RK 2015. Analysis of stability and G x E interaction of rice genotypes across saline and alkaline environments in India. Cereal Research Communications. DOI: 10.1556/ 0806.43.2015.055. 6.62.
35. Kumar A, Sinha DK, Mishra RR, Ahmad N and Singh KM 2015. Yield gap analysis of hybrid rice: A case study in Kalyanpur block of Samastipur district (Bihar). Journal of Agri Search. 2(4):273-276.
36. Kumar A and Mishra SD 2015. Technical Skills Education and Maize Aggribusion links for faster Economic Development: Micro Level Evidence from Bihar, India. Published in Indian Economic Journal Special issue (Special issue). 159-166.
37. Kumar R, Kumar P, Sharma VK, Kumari R and Neha K 2015. Genetic purity assessment of Rice varieties using microsatellite markers. Int. J. of Agri Sci.
38. Kumar S, Kumar R and Shamim MZ 2015. Microsatellite marker based characterization and diversity analysis of wheat. The Bioscan. 10(4):2099-2105.
39. Kumar A, Kumar S, Kamat DN and Chandrawal A 2016. Resource conservation technology for weed management. Progressive Research- An International Journal. 11 (Special-II):1235-1237.
40. Kumar A, Mishra AK and Singh SP 2015. Efficacy of different fungicide on Collectrochium leaf spot of turmeric (*Curcuma longa* L.). Ind. J Basis App, Agril. Res. (Special issue)13:344-348.
41. Kumar A, Sinha KK, Kumar S and Mandal T 2015. Intercropping in *rabi* maize for higher production potential and economic feasibility in Northern Bihar. Progressive Research-An International journal. (Special III) 10:1649-1652.
42. Kumar Abhay, Singh RKP, Singh KM and Jha AK 2015. A Micro Analysis of Fodder Production and Marketing in Bihar. Indian Journal of Animal Sciences. 85(12):1379-1383.
43. Kumar C, Nilanjaya and Kumar S 2015. Genetic divergence for yield and related attributes in Aerobic rice (*Oryza sativa* L.). The Ecoscan. (Supplement on Rice)9(1&2):475-480.

44. Kumar C, Nilanjaya and Kumar S 2015. Principal component analysis for yield and related attributes in aerobic rice. *Oryza*. 52(2):111-116.
45. Kumar D, Nilanjaya and Kumar C. 2015. Studies on variability in bread wheat (*triticumaestivum* L.) under late sown condition. *Trends in Biosciences*. 8(21):5835-5839.
46. Kumar J, Gupta SP, Singh PP, Satyanarayan P and Prasad R 2015. Effect of dates of planting on the incidence of thrips (*Thrips tabaci* Lind.), leaf infestation and bulb yield in Onion. *Annals of Plant and Soil Research*. 17 (Special issue):50-52.
47. Kumar N., Kumari G. and Paswan S 2015. Optimizing nutrient and irrigation requirement of sugarcane (*Saccharum* spp. hybrid complex) and French bean (*Phaseolus vulgaris*) intercropping system. *Indian J Agron*. 60(4):524–533.
48. Kumar N., Singh H, Kumari R and Singh VP 2015. Comparative analysis of yield and quality in sugarcane genotypes under waterlogged and normal condition. *The Bioscan*. 10(1):323-327.
49. Kumar N., Kumar R. and Kumar B. 2015. Genetic Diversity for Agro-Morphological Traits in Rice (*Oryza sativa* L.). *Environment & Ecology*. 33(4A):1754-1757.
50. Kumar P, Sharma VK and Prasad BD 2015. Characterization of maintainer and restorer lines for wild abortive cytoplasmic male sterility in indica rice (*Oryza sativa* L.) using pollen fertility and microsatellite (SSR) markers. *Australian J Crop Sci*. 9:384-393.
51. Kumar R and Singh S K 2015. Compatibility of *Trichoderma viride* with fungicides and organic cakes. *The Bioscan*. (Accepted).
52. Kumar R and Singh S K 2015. Effect of planting season and plant geometry on disease incidence, plant growth and yield of papaya (*Carica papaya* L.). *The Ecoscan*. (Accepted).
53. Kumar R and Singh SK 2015. Efficacy of different fungicides against *Fusarium solani* causing root rot of papaya (*Carica papaya* L.)-A new threat in agro ecological conditions of Bihar. *New Agriculturist*. (Accepted).
54. Kumar R and Singh SK 2015. Growth characteristic of *Fusarium solani* causing root rot disease in papaya (*Carica papaya* L.) –A new threat in agro ecological conditions of Bihar. *Bioved*. (Accepted).
55. Kumar R, Das S, Kumar V, Dwivedi DK and Das L 2015. Studies on irrigation and weed management for enhancing rice yield and water productivity under system of rice intensification. *The Bioscan*. 10(1):417-20.

56. Kumar R and Prakash Satya 2015. Role of Communication in Adoption of system of Rice intensification (SRI) technology in Supaul district of Bihar. *Journal of Communication Studies*. XXXIII (3):119-124.
57. Kumar R, Prakash Satya, Kumari V 2015. Study of Knowledge level of beneficiaries and Non- beneficiaries towards transfer of technology about system of Rice intensification (SRI) in Supaul district. *Research journal of Agricultural and Environmental Sciences*. 2(3):
58. Kumar S and Upadhyay JP 2015. Development and validation of integrated disease management (IDM) module for management of pigeonpea wilt caused by *Fusarium udum*. *Indian J. Pl. Prot.* 43(4):493-497.
59. Kumar S, Sinha KK and Singh D 2015. Crop establishment, fertility, weed management practices in scented hybrid rice. *India. J of weed science*. 47(2):113-116.
60. Kumar S, Singh NK, Kumar Rajesh and Kumar C 2015. Genetic divergence analysis for morpho-physiological traits of rice (*Oryza sativa* L.) under drought condition: The *Ecoscan*. IX (1&2); supplement on rice (part-II):653-651.
61. Kumar S, Singh NK, Kumar Rajesh, Nilanjaya, Kumar C, Kumari Priti 2016. Pattern of relationship among yield and yield component traits in rice (*Oryza Sativa* L.) under drought condition. *Green Farming*. 7(3):114-119.
62. Kumar S, Singh VP and Arora A 2015. Salicylic acid decrease the susceptibility of photosystem II and photosynthesis from heat stress injury in wheat (*Triticum aestivum* L.). *Ecology, Environment and Conservation*. (Accepted).
63. Kumar S, Singh VP, Nagar S, Ramakrishnan S and Arora A 2015. Foliar applied salicylic acid modulates the antioxidant defence system and expression of hsp70 in wheat (*Triticum aestivum* L.) under heat stress. *Ecology, Environment and Conservation*. 21:493-497.
64. Kumar V and Ansari MN 2015. Indigenous knowledge of animal production practices in Santhal Pargana region of Jharkhand. *Res. J. of Animal Husb. & Dairy Science*. 6(1):12-15.
65. Kumar V and Ansari MN 2015. Indigenous technical knowledge of farmers about plant protection practices in Jharkhand. *J. of Interacademia*. 19(2):255-259.
66. Kumar V, Kumar M, Singh SK and Chandra SK 2015. Impact of conservation agriculture on yield, nutrient uptake and quality of wheat crop in calciorthent. *Plant Archives*. 15(1):371-6.



67. Kumar V., Singh SK and Suman SN 2015. Long-term Effect of Green Manuring on Yield, Micronutrients Uptake and Soil Properties of Rice under Rice-based Cropping System. *RAU Journal of Research*. 25(1&2):24-28.
68. Kumari A. 2016. Increasing Rate of Divorce: A Social Stigma. *International Journal of S.S. & Humanities Research*. 235-240.
69. Kumari A and Kumar H 2015. Association of nonpathogenic *Fusarium oxysporum* species with cultured shoot apices of banana (*Musa acuminata*) cultivars. *The Bioscan*. 10:629-633.
70. Kumari A and Kumar H 2015. Banana genome sequenced-A Review. *Trends in Biosciences*. 8:977-983.
71. Kumari A.a, Sairam RK and Singh SK 2015. Effect on physiological, growth and yield parameters of wheat genotypes under drought stress. *Int. J. Agricult. Stat. Sci.* 10(Supplement 1):167-174.
72. Kumari G., Thakur SK, Tiwari S and Pandey SB 2015. Chemical pools of lead in sludge-treated soils. *Pollution Res.* 34(4):713-719.
73. Kumari P., Agarwal ML and Kumar N 2015. Population dynamics of giant African snail, *Achatina Fulica* Bowdich (*Stylommatophora: Achatinidae*) and Its correlation with weather parameters. *The Bioscan*. 10(4):1489-1492.
74. Kumari R, Nandan R and Kumar V 2015. Effect of crop diversification and moisture regimes on productivity and water use efficiency under rice-based cropping system. *New Agriculturist*. 26(1,2):1-6.
75. Kumari R, Nandan R, Kumar V and Kumar R 2015. Effect of moisture regimes on system profitability and water use efficiency under rice-based cropping system. *Environment and Ecology*. 34(4A):1623-7.
76. Kumari R., Sharma VK and Kumar H 2015. Seed culture of rice cultivars under salt stress. *Int J Pure App Biosci.* 3:191-202.
77. Kumari S., Prasad R, Singh PP and Paidi Satyanarayana 2015. Relative efficacy of insecticides used as seed treatments with and without *Rhizobium* inoculation against stem fly (*Melanagromyza phaseoli* Tryon) in vegetable pea. *Trends Biosci.* 8(16):4206-4208.
78. Kumari S., Prasad R, Singh PP and Paidi, Satyanarayana 2015. Response of vegetable pea genotypes against stem flies (*Melanagromyza phaseoli* Tryon) in north Bihar conditions. *Trends Biosci.* 8(16):4209-4210.

79. Kumari S. and Singh SK 2015. Assessment of genetic diversity in promising finger millet (*Eleusine coracana* L. Gaertn) genotypes. *The Bioscan*. 10(20) 825-830.
80. Kumari S, Singh AK and Kumar M 2015. Effect of Supplementation of Protein Rich Food on the Growth of Poor Children. *RAU J. of Res*. 25(1&2):75-77.
81. Ladha JK, Rao AN, Raman AK, Padre AT, Dobermann A, Gathala M, Kumar V, Saharawat Y, Sharma S, Piepho HP, Alam M, Laik R, Rajendra R, Reddy CK, Prasad R, Sharma PC, Singh SS, Saha A and Noor S 2015. Agronomic improvement can make future cereal systems in South Asia far more productive and result in a lower environmental footprint. *Global Change Biology*, doi, 10.1111 / gcb. 13143 (NAAS rating: 14.2).
82. Meena MS, Singh KM and Swanson BE 2015. Indian Agricultural Extension Systems and Lessons Learnt. *A Review Journal of Agri Search*. 2(4):281-285.
83. Mehta RK, Ojha SN, Yadav V, Rai SC, Kumar S 2016. A study of innovativeness and regulating conflicts between fishery and farmers in the Balua wetland *Applied & Natural Science*. 8(2):951-959.
84. Narayan A and Kumar A 2016. Combining ability studies for days to tasselling and silking. *Trends in Biosciences*. 8(23):6666-6671.
85. Narayan A, Kumar A and Pandey K 2015. Combining ability studies for grain yield and tryptophan content in Quality Protein Maize. *Trends in Biosciences*. 8(15):3869-3875.
86. Narayan A, Vaibhav G, Kumar A and Pandey K 2015. Genetic divergence studies in Quality Protein Maize (*Zea mays* L.). *Trends in Biosciences*. 8(15):3865-3868.
87. Nilanjaya and Kumar Chandan 2015. Inheritability, Character Association and cause-effect study among yield attributes in aerobic rice (*Oryza sativa* L.). *The Ecoscan*. 9(1&2):591-596 (Supplement on Rice).
88. Nilanjaya, Kumar C and Narayan A 2015. Genetic variability for yield and related attributes in aerobic rice (*Oryza sativa* L.). *Trends in Biosciences*. 8(8):1935-37.
89. Prakash N., Kumar R and Chaudhary VK 2015. Molecular assessment of genetic divergence in pea genotypes using microsatellite markers. *Legume Research*. DOI:10.18805/Ir.v0iOF.7483.
90. Paidi S. and Singh PP 2015. Population dynamics of Thrips (*Thrips tabaci* Lind.) on onion in relation to biotic factors. *Eco. Environ. Cons*. 21(4):2143-2145.

91. Paidi S. and Singh PP 2016. Relative field efficacy of botanicals, bio-pesticides and synthetic insecticides against Thrips (*Thrips tabaci* Lind.) on onion. *J. Exp. Zool. India.* 19(1):191-194.
92. Pandey K, Verma SS and Narayan A 2015. Estimation of combining ability in Maize (*Zea mays* L.) for yield using half diallel method. *Trends in Biosciences.* 8(16):4080-4084.
93. Paswan AK, Ansari MN 2015. Knowledge and adoption level of farmers about improved deep water rice production technology. *J. of Interacademia.* 19(2):276:280.
94. Rai D and Mehra P 2015. A review on interactions of *Trichoderma* with Plant and Pathogens. *Res. J. Agriculture and Forestry Sci.* 3(2):20-23.
95. Rai D, Bisht KS and Tewari AK 2016. The in- vitro effect of commonly used newer fungicides on mycelial growth in the biocontrol fungus *Trichoderma harzianum* (Th 14). *Journal of Hill Agriculture.* 6(1):162-164.
96. Rai D, Mishra AK and Pandey 2015. Eco-friendly management of *Alternaria* blight in Indian mustard (*Brassica juncea* L.). *Journal of oilseed Research.* 242 -246.
97. Rai D, Tewari AK and Bisht KS 2015. Evaluation of different concentration of Jaggery (as cheaper carbon source) for growth and sporulation of *Trichoderma harzianum*. *Trends in Biosciences.* 8(18):4868-4870.
98. Rani A, Kumar M and Kumar S 2016. Effect of phytohormones on shoot apex and leaf explants of *Withania somnifera* (Ashwagandha). *J App Nat Sci.* 8:412-415.
99. Ranjan RK, Singh D 2015. Occurance of Biovars, Races and Phylotyping of *Ralstonia solanacearum* causing brown rot disease of Potato under different Agro-climatic conditions. *Journal of Pure and Applied Microbiology.* 9(4):2931-2941.
100. Ranjan RK, Singh Dinesh, 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.
101. Roy DK and Dharminder 2015. Integrated weed management in turmeric. *Indian Journal of weed Science.* 47(4):393-396.
102. Sahu RK, Paswan AK, Sahu RK, Jha CK and Prasad SS 2015. Investigation for determining suitable type of drainage system for salt affected area of Muzaffarpur district of Bihar. *Indian J Soil Conservation.* 43(2):13 –134.

103. Sathi SK, Singh PP and Singh PK 2015. Population dynamics, damage pattern and management of spotted pod borer (*Maruca vitrata* Geyer) in yam bean (*Pachyrhizus erosus* L.) in Bihar. *Env. and Eco.* 33(4B):1841-1843.
104. Sattar A and Khan S. 2015. Using agro-climatic approach for crop planning under rainfed condition in Darbhanga district of Bihar, *Mausam.* (Accepted).
105. Shweta and Singh AK 2015. Enterprise satisfaction among the women members in Barauni dairy of Bihar. *RAU Journal of Research.* 25(1&2):80-81.
106. Shweta and Singh AK 2015. Improvement in quality of life through dairy enterprise among the WDCD members of Barauni dairy. *RAU Journal of Research.* 25(1&2): 69-71.
107. Shyamrao ID, Chand H, Kumar A, Ramesh CK 2015. Population dynamics and seasonal incidence of *Chilo infuscatellus* Snellon on sugarcane. *Journal of Entomological Research.* 40(1):137-140.
108. Shyamrao ID, Chand H, Satyanarayana P, Kumar A, Ramesh CK 2015. Extent of parasitisation on *Chilo infuscatellus* by *Trichogramma Chilonis* in sugarcane. *Trends in Bioscience.* 9(8):5051-5054.
109. Singh CM, Mishra SB, Pandey A and Kumari K 2015. Branching pattern and harvest index: important selection criteria for improvement of seed yield in mungbean. *Madras Agric.* 102(1-3):1-5.
110. Singh A, Mukul J, Ram M, Arya M and Singh PK 2015. Screening and evaluation of rice cultivars for submergence tolerance using SSR markers. *The Ecoscan.* 9(1&2):255-259.
111. Singh A, Saini R, Singh J, Arya M, Ram M, Pallavi, Mukul and Singh PK 2015. Genetic diversity studies in rice (*Oryza Sativa* L.) using microsatellite markers. *IJAEB.* 8(1):143-152.
112. Singh AK, Singh PK, Arya M, Singh NK and Singh US 2015. Molecular Screening of Blast Resistance Genes in Rice using SSR Markers. *Plant Pathol. J.* 31(1):12-24.
113. Singh AK, Singh RK, Kumar S, Arya M and Singh PK 2015. Genetic variability to improve yield and resistance to bacterial leaf blight in rice. *Bangladesh J. Bot.* 44(4):581-589.
114. Singh P, Shahi B and Singh KM 2016. Quality cauliflower seed production through honey bee pollination for enhancing livelihood in Vaishali district of Bihar. *Journal of Agri Search.* 3(2)115-118.

115. Singh CM, Kumar R, Mishra SB, Pandey A and Arya M 2015. Characterization of mungbean genotypes against mungbean yellow mosaic virus and cercospora leaf spot diseases under north east plain zone. *IJAEB*. 6(4):1-7.
116. Singh CM, Kumar R, Mishra SB, Pandey A and Arya M 2015. Characterization of mungbean genotypes against mungbean yellow mosaic virus and cercospora leaf spot diseases under north east plain zone. *International Journal of Agriculture, Environment and Biotechnology (IJAEB)*. 8(1): 119-125.
117. Singh CM, Mishra SB, Pandey A and Arya M 2015. Multivariate analysis in mungbean to identify the genetic donors for pubescence and agro-morphological traits. *Legume Research*. 38(6):767-771.
118. Singh CM, Mishra SB, Pandey A and Kumari K 2015. Branching pattern and harvest index: important selection criteria for improvement of seed yield in mungbean. *Madras Agric. J.* 102(1-3):1-5.
119. Singh CM, Singh AK, Mishra SB, Pandey A, Kumar B 2015. Detection of Epistasis for Yield and Some Important Agro-Morphological Traits in Mungbean (*Vigna radiata* L. Wilczek). *Legume Genomics and Genetics*. 6(4):1-7.
120. Singh DK, Singh AK, Singh SK, Singh M and Srivastava OP 2015. Effect of balance nutrition on yield and nutrient uptake of pea (*PISUM STIUM* L.) under Indo-Gangetic Plains of India. *The Bioscan*. 10(3):1245-1249.
121. Singh KM, Singh RKP, Kumar, A, Meena, MS, Kumar, A and Chahal VP 2015. Implications of labour migration for rice production and household economy: evidences from eastern India. *Indian Journal of Agricultural Sciences*. 85(6):768-772.
122. Singh RKP, Singh KM and Kumar A 2015. A Study on Adoption of Modern Agricultural Technologies at Farm-level in Bihar. *Economic Affairs*. 03/2015; 60 (1):49-57.
123. Singh RKP, Singh KM and Kumar A 2015. Agricultural Development in Bihar: Some Empirical Evidences. *Agricultural Situation in India*. LXX (12):5-13.
124. Singh R, Singh Y, Xalaxo, Suchit, Singh AK, Singh PK, Nilanjaya, Singh NK, Kumar R and Chetia SK 2016. From QTL to Variety-Harnessing the benefits of QTLs for drought, flood and salt tolerance in mega varieties of India through a multi-institutional network. *Plant Science*. 242(2016):278-287.
125. Singh SK and Kumar R 2015. Etiology, symptomatology and molecular characterization of papaya root rot – a new and serious threat. *Indian Phytopath.* 68(3):348-349.

126. Singh SP 2015. Effect of organic manures on growth, yield and economics of coriander (*Coriandrum Sativum* L.). *Journal of Eco-friendly Agril.* 10(2):124-127.
127. Singh SP 2015. Effect of ZnSo<sub>4</sub>, FeSo<sub>4</sub>, CuSo<sub>4</sub> and MnSo<sub>4</sub> on growth, yield and economics of coriander (*Coriandrum sativum* L.) cv. Pant Haritima *Journal of Eco-friendly Agriculture.* 10(1):32-35.
128. Singh SP 2015. Nutrient supplementation through organic manures for growth and yield of ginger (*Zingiber officinale* Rose.). *Journal of Eco-friendly Agriculture* 10(1):28-31.
129. Singh SP, Singh HP and Kumar R 2015. Growth and instability in the production of sugarcane in Bihar. *International J Agric and Statistical Sci.* 65(1):49 -58.
130. Singh SP, Singh HP and Tiwari H 2015. An analysis of yield gap in sugarcane production in Bihar. *Vaichariki.* 5(2):77 -85.
131. Singh SK 2015. Tillage impacts on soil carbon level and aggregate stability under rice-wheat cropping system. *New Agriculturist.* 26(1):91-100.
132. Singh SP 2016. Effect of *Azospirillum* on growth and yield parameters of coriander (*Coriandrum Sativum* L.). *Journal of Eco-friendly Agriculture.* 11(1):15-17.
133. Sinha SK, Jha CK, Kumar B, Paswan, S, Alam M and Pandey SS 2015. Screening of sugarcane genotypes for quality jaggery production and healthy life. *Prog Agric.* 15(2):263-267.
134. Subbanna ARNS, Srivastava RM Ahmad Md Abbas, More SP, Shivashankar and Kalyanbabua B 2015. Phylogeny of *Helicoverpa armigera* (Noctuidae: Lepidoptera) populations from Uttarakhand Himalayas as revealed by partial cytochrome oxidase I sequence. *J. Exp. Zool. India.* 18(1):157-163.
135. Suman S and Kumar H 2015. Micropropagation of banana cv. Malbhog. *The Bioscan.* 10:647-650.
136. Suman S, Kumari R, Sharma VK and Kumar H 2015. Isozyme analysis based genetic diversity fidelity assessment of micropropagated banana plants. *J. Appl. Nat. Sci.* 7:579-584.
137. Suman S, Sharma VK, Kumar, H and Shahi VK 2015. Screening of mungbean (*Vigna radiata* (L.) Wilczek) genotypes for resistance to mungbean yellow mosaic virus (MYMV). *Environment Ecology.* 33:855-859.

138. Thakur SK, Kumari Geeta, Tiwari S and Tomar NK 2015. Effect of phosphate on cadmium sorption in some arid and semi arid soils of Haryana, India. *The ecoscan*. 9(3&4):665 – 670.

#### **Research Papers presented in Seminar/Symposium**

1. Bala, A., Rai, B. and Jha, P. K. (2016). Management of xanthomonas oryzae pv.oryzae causing bacterial leaf blight of rice. *6<sup>th</sup> International Conference on Plant, Pathogens and People with the mission Challenges in Plant Pathology to benefit humankind at NASC Complex, New Delhi during February 23-27, 2016.*
2. Kumar, A. and Mishra, S. D. (2015). Technical Skills Education and Maize Aggribusion links for faster Economic Development: Micro Level Evidence from Bihar, India. *98<sup>th</sup> Annual Conference of THE INDIAN ECONOMIC ASSOCIATION.*
3. Kumar, B. (2016). Evaluation of Different acaricides for control of Aceria cajani a vector of sterility mosaic disease of pigeonpea. *International Conference on Plant, Pathogens and People. May 22-24, 2015, BAU, Ranchi, Kanke (Jharkhand).*
4. Kumar, B. and Sahni, S. (2016). Screening of Pigeonpea (*Cajanus cajan*) varieties against wilt disease. *ISMPP 37<sup>th</sup> Annual conference and national symposium on “Food Security through Plant Health Protection” held from April 04-06, 2016 at RAU, Pusa, Bihar.*
5. Kumar, R. and Singh, S. K. (2016). Effect of organic amendments and plant extracts against Fusarium solani causing root rot of papaya (*Carica papaya* L.). *6th International Conference on “Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.*
6. Kumar, R. and Singh, S. K. (2016). Evaluation of various bio-control agents against Fusarium solani isolated from papaya (*Carica papaya* L.). *8th IASFC on prospects of skill development in agriculture and rural development –A step towards make in India. Organized by Bioved Research Institute of Agriculture, Technology and Science, Allahabad, UP (India).*
7. Kumar, R. and Singh, S. K. (2016). Integrated management of papaya root rot caused by Fusarium solani. *National conference on rural livelihood security through innovative Agri-entrepreneurship, organized by Society for upliftment of Rural Economy (SURE), Varanasi (UP) and ICAR central Potato Research station, Patna , Bihar (India), 12-13, March.*
8. Kumar, R., Singh, R. S., Singh, D. and Kumar, S. (2016). Effect of Tillage and Irrigation Levels on Growth and Yield of Indian Mustard (*Brassica juncea* L.). *Environment & Ecology 34 (4C): 2345—2348.*
9. Kumari, P. and Prakash, S. (2016). Impact of Training Programme of RAU on Mushroom Production technology- A Critical Analysis of Samstipur District. *International Seminar, BHU, Varanasi.*

10. Kumari, R., Jha, P. K. and Rai, B. (2016). Effect of resident mycoflora on health of Tulsi crop. *6th International Conference on "Plant, Pathogens and People" with the mission "Challenges in Plant Pathology to benefit humankind" at NASC Complex, New Delhi during February 23-27, 2016.*
11. Mishra, A. K., Pandey, A. and Chand, P. (2015). Field performance of advanced soybean genotypes against soybean mosaic virus. *National seminar on strategic intervention to enhance oilseeds production in India. Feb. 19-21, 2015 Bharatpur.*
12. Pandey, I. B. (2016). Performance of promising pigeonpea (*Cajanus cajan*) genotypes under intercropping system in different row arrangement. *Abstract in 103rd Indian Science Congress held at University of Mysore during Jan. 3-7, pp 90-91.*
13. Ranjan, R. K. (2016). Effect of storage temperature on survival, transmission of *Ralstonia solanacearum* and quality of potato tubers during storage. *6th International Conference on "Plant, Pathogens and People" with the mission "Challenges in Plant Pathology to benefit humankind" at NASC Complex, New Delhi during February 23-27, 2016.*
14. Shahi, B., Singh, P. and Singh, K. M. (2016). Increasing Role and Importance of Private Advisory Services in Agricultural Extension. *Abstract no. IEEC/2016/ ABS/227, Page no. 165.*
15. Shahi, B., Singh, P. and Singh, K. M. (2016). Micro-Enterprise Approach for Improving Livelihood of SHGs through Vermi-Compost. *Lead Paper & Oral presentation at Rural Livelihood Security through Innovative Agri-entrepreneurship (RLSIAe) From March 12-13, 2016 Patna, National Seminar organized by Society for Upliftment of Rural Economy.*
16. Shankar, H., Bharati, V., Banchhor, N. K., Shau, S. L. and Tigga, B. (2015). Effect of Plant growth pattern, tiller dynamics and dry matter accumulation of direct seeded rice (*Oryza sativa L.*) by different moisture regimes and organic manures. *The Ecoscan: special issue, Vol.VII: 157-160.*
17. Shankar, H., Bharati, V., Kumar, V. and Kumar, M. (2016). Effect of moisture regimes and organic manures on growth, yield, water use efficiency and economics of direct seeded rice (*Oryza sativa L.*). Abstract, pp. 127, March, 17-19. *International symposium – RASSPE, RAU Pusa.*
18. Shekhar, D. and Singh, K. M. (2015). Extending Green Revolution in Bihar: Issues & Strategies for Sustainable Development. *ISEE Golden Jubilee National Seminar held at BHU, Varanashi 05-07, Nov, 2015.*
19. Singh, A. (2016). Stress tolerance rice: Boon for sustainable agriculture in Eastern India. *International Symposium, held at BHU, Varanasi, March 17-19, 2016.*
20. Singh, K. M. and Shekhar, D. (2015). Multi-tier extension strategies for mainstreaming the Bihar agriculture. *International Conference on Exportable Rice- An Extension- research Interface 16-18 Oct, 2016.*



21. Singh, Pushpa, Shahi, B. and Singh, K. M. (2016). Adoption of Information and Communication Technology for Spread of Integrated Pest Management. *Oral presentation at International Extension Education Conference on Education, Research and Services* held at Institute of Agricultural Sciences, BHU, Varanasi (UP), India during January 27 to 30, 2016.
22. Singh, Pushpa, Shahi, B. and Singh, K. M. (2016). Sustainable Strategies for Climate Smart Insect-pest Management by extension systems. *Oral presentation at ISEE Golden Jubilee National Seminar Strategy to drive Skill-based Agriculture Development forward for Sustainability and Rural Employability* held at Institute of Agricultural Sciences, BHU, Varanasi (UP), India during November 5 to 7, 2015.
23. Singh, R. P., Dey, S. K., Satisha, G. C., Singh, R. S. and Jacob, J. (2015). Growth and yield performance of seven popular hevea clones and soil properties in sub-tropical areas of mizoram. *Indian Journal of Agriculture and Allied Sciences (ISSN: 2395-1109)*. 1(3): 01-05.
24. Singh, R. S. (2016). Simple method to reduce washing loss of fertilizers, soil erosion and groundwater contamination. *International Journal of Horticulture, agriculture & Plant Sciences (IJHAS-ISSN: 2454-7751)*. Vol.4 No.1, January-June 2016, Pp. 37-40.
25. Singh, S., Sharma, S., Laik, R., Kumara, B. H. and Singh, A. (2015). Crop manager for stress tolerant rice APP – a decision tool in ‘Digital India’ for site specific nutrient management at farm level. *Proceedings of India International Science Festival, 2015 held on 5-7 December, New Delhi. Oral Innovative Agri – 33*.
26. Singh, S. K. and Pandey, A. (2015). Variability in fatty acid profile ratio of SFA, MUFA and PUFA in genotypes of soybean (*lycine max. L. Merrill*). *National Seminar on Strategic Interventions to Enhance Oilseed Production. March 1-3, 2015, PAU, Ludhiana*.

**Research Papers presented in National seminar on strategic interventions to enhance oilseeds production in India. Feb. 19-21 DRMR, Bharatpur.**

- 1 Bharati, V., Dwivedi, D. K., Pandey, A. and Chand, P. (2015). Assessment of spring sunflower based intercropping system. pp 170-171.
- 2 Chand, P. and Mishra, A. K. (2015). Management of Alternaria leaf spot of sunflower. pp 215-217.
- 3 Mishra, A. K., Pandey, Chand, P. (2015). Field performance of advanced soybean genotypes against soybean mosaic virus. pp. 213-215.
- 4 Singh, R. S. (2015). Effect of different doses of fertilizers on growth, yield and economics of safflower (*Carthamus tinctorius L.*) under irrigated condition. pp 176-178.

- 5 Singh, R. S. and Pandey, A. (2015). Effect of spray of different agro-chemicals on growth, yield and net return of mustard under rainfed condition. pp 158-159.
- 6 Singh, R. S., Singh, H., Akhauri, R. K. and Pandey, A. (2015). Effect of sources and levels of sulphur on growth, yield and oil content of sunflower (*Helianthus annuus* L.). pp 164-166.

**Research Papers presented in International symposium on Management of Rice based agricultural system under stress prone environment, March 17-19, 2016, RAU, Pusa.**

- 1 Chandra, K., Nilanjaya, Kumar, R., Kumar, C. and Singh, N. K. (2016). Genetic Divergence Study based on Morpho-Physiological Traits in Rice under Aerobic and Normal conditions. Chandra, S. K. (2016). Characterization and Management of Cultivated Rice Soil under Stress Conditions.
- 2 Choudhary, S. K., Dharminder, Kumari, R., Kumari, G. and Nandan, N. (2016). Weed management in Aerobic Rice.
- 3 Das, L., Kumar, R., Kumar, V. and Kumar, V. (2016). Effect of Moisture Regimes and Levels of Iron on Water Use Efficiency and Water Productivity of Rice under Aerobic Condition.
- 4 Jha, C. K. (2016). Effect of Organic and Inorganics on Zinc Nutrition of sugarcane and its residual effect on rice in calcareous soil.
- 5 Kavita and Kumar, V. (2016). Exogenous Application of Phytohormones and Iron Acts Synergistically Enhancing Antioxidant Enzyme Activity, Chlorophyll, and Grain Yield of Rice in Fe-Deficient Soil.
- 6 Kumar, N., Jha, P. K. and Singh, A. K. (2015). Occurrence of lace bug, *Cochlochila bulitta* (Stal.) (Hemiptera: Tingidae) on sweet basil (*Ocimum basilicum* L.) and its management. *National Seminar on Prospects of cultivation and Marketing of Medicinal Plants in Jharkhand., 12—12 April, 2015, Bokari Jharkhand.*
- 7 Kumar, R., Singh, N. K., Prakash, N., Kumar, M., Singh, U. K. and Tiwari, S. (2015). K-Mean Determination of Genetic Divergence for Some Morphological and Submergence Related Traits in Rice Landraces.
- 8 Kumar, V., Kumara, B. H., Mishra, J. S., Panwar, G. S., Mishra, S. B., Laik, R., Kumar, S., Bhakta, N., Kumar, A., Singh, J. P., Zaidi, N. W., Yadav, A., Singh, S. (2016).
- 9 Kumar, V., Kumari, P. and Kumar, R. (2016). Effect of Soil Moisture Regimes and Nitrogen Levels on Rice under Aerobic Condition.
- 10 Kumar, V., Roy, D. K., Kumar, R., Kumar, S. and Hans, H. (2016). Influence of Crop Establishment Methods and Different Weed Management Practices on Growth, Yield and Quality of Direct Seeded Rice (*Oryza Sativa* L.).

- 11 Kumar, V., Singh, S. K., Laik, R. and Nilanjaya. (2016). Resistance to Iron Stress of Some Rice Genotypes in Calcareous Soil under Aerobic Condition.
- 12 Kumari, P., Singh, J. P., Dharminder, Kumar, S. and Singh, S. P. (2016). Weed Management Practices in Direct Seeded Rice under Rainfed Lowland Ecosystem.
- 13 Laik, R., Kumara, B. H., Kumar, V., Singh, S., Singh, S. K., Kumar, V. and Kumar, A. (2016). Response of Nutrients in Submergence- Prone Rainfed Lowland Environment under Flash Flood Conditions.
- 14 Laik, R., Singh, S. K., Kumara, B. H., Singh, S., Kumari, A., Hussain, Md. Sajid, Choudhary, H. C. and Shahi, B. (2016). Response of Nutrients in Submergence-Prone Rainfed Lowland Ecosystem with Different Flood Histories.
- 15 Nilanjaya, Kumar, C., Kumar, R., Singh, N. K. and Chandra, K. (2015). Multivariate analysis based on yield Components in Aerobic Rice (*Oryzasativa* L.).
- 16 Pandey, I. B., Kumar, M. and Sattar, A. (2016). Impact of crop growing environment on phenology and yield of rice (*oryza stiva* L.) genotypes in changing climatic scenario.
- 17 Parveen, H., Singh, M. P. and Prasad, S. S. (2016). Generation of thematic soil maps to monitor spatial distribution of multi micro nutrient deficiency in Rajendra Agricultural University Pusa Farm through Geo-informatics.
- 18 Prakash, N., Kumar, R., Kumar, M. and Kumar, S. (2015). Genetic Diversity Analysis for Submergence Tolerance in Rice (*Oryza sativa* L.).
- 19 Prasad, S. S., Yadav, R. C., Singh, Y., Singh, S. K., Singh, R. S., Jha, S., Kumari, N. and Srivastwa, P. K. (2016). Improving Rice Productivity through Technological Interventions in Calcareous Soils of Bihar.
- 20 Prasad, S. S., Yadav, R. C., Singh, Y., Singh, S. K., Singh, R. S., Jha, S., Kumari, N., Srivastwa, P. K. (2016). Improving Rice Productivity through Technological Interventions in Calcareous Soils of Bihar.
- 21 Rai, B., Ranjan, R. K. and Jha, P. K. (2016). Integrated management of bacterial leaf blight in rice with rice rhizobacteria and plant extract.
- 22 Rai, D. and Singh, S. K. (2016). Scope of beneficial microorganism in enhancing productivity of rice under stress prone environment.
- 23 Ranjan, R. K. (2016). Evaluation of plant extracts against bacterial leaf blight of rice disease (*Xanthomonas oryzae pv. oryzae*).
- 24 Roy, D. K., Dharminder and Singh, D. (2016). Effect of weed management practices on weed dynamics and productivity of rice-wheat cropping system.
- 25 Shekhar, H., Garg, R. K., Singh, A. K., Kumar, S. and Bhattacharya, C. (2015). Screening and Identification of Rice Genotypes with Drought Tolerance under Stress and Non-Stress Condition.

- 26 Shekhar, H., Garg, R. K., Singh, A. K., Panja, S. and Bhattacharya, C. (2015). Genetic Diversity of Drought Tolerant Rice (*Oryza sativa* L.) genotypes under Drought Stress and Non-Stress Condition.
- 27 Singh, A. K. and Singh, P. (2016). Influence of Tillage and Water Management on Yield and Water Expense Efficiency of Rice.
- 28 Singh, A. K., Singh, J. P., Tiwary S., and Kumari Shyama. (2016). Stress Tolerant Rice: Boon for Sustainable Agriculture in Eastern India.
- 29 Singh, K. K., Shahi, B., Singh, M. P., Srivastava, R. K., Singh, A. K. and Prasad, J. (2016). Evaluation of Macro and Micro Nutrients Status of Soil Samples of Pokhrai under Muzaffarpur District in Bihar.
- 30 Singh, P., Singh, S. K., Kumar, V. and Tiwari, S. (2016). Phytotoxic effect of arsenic on growth and yield of rice (*Oryza sativa* L) in calcareous soils of Bihar.
- 31 Singh, S. P., Laik, R., Singh, S. K. and Kumar, V. (2016). Impact of Zinc, Boron and Sulphur on Rice (*Oryzasativa*L.) in Flood Plains Areas of *Koshi* River.
- 32 Singh, Y., Singh, V. K., Choudhary, S. K., Sapna, K., Dharminder and Jha, C. K. (2016). Swift in cultivation system and Integrated Nutrient Management Approach for Addressing water and Nutrient Stress Issues in Rice.
- 33 Thakur, S. K. (2016). Integrated effect of organic and inorganics on rice-sugarcane cropping system.
- 34 Tiwari, S., Singh, J. P., Singh, S. K., Kumar, R., Singh, A. and Singh, U. S. (2016). Evaluation of Rice genotypes to salt stress soil on growth and yield Attributes.
- 35 Umesh, U. N., Kumar, V., Kumar, M. and Kumari, Geeta. (2016). Effect of Integrated Nutrient Management on Yield and Nutrient Availability in Rice under Sugarcane Based Cropping System.

**Research Papers presented in 25th Asian Pacific Weed Science Society conference on 'Weed Science for Sustainable Agriculture, Environment and Biodiversity held at PJT State Agril. University, Hyderabad.**

27. Dharminder, Roy, D. K. and Ranjan, R. (2015). Effect of time of sowing and weed control methods in direct rice.
28. Pandey, I. B. (2016). Efficacy of weed management practices on weed dynamics and yield of long duration pigeonpea.
29. Pandey, R. K., Roy, D. K., Dharminder and Ranjan, R. (2015). Long term effect of herbicides on weed seed bank and population of soil micro-flora in rice –wheat cropping system.

30. Roy, D. K., Dharminder and Pandey, R. K. (2015). Effect of rice based cropping system on weed dynamics and crop productivity..
31. Roy, D. K., Dharminder and Ranjan, Rajeev. (2015). Biological control of Parthenium hysterophorus.
32. Roy, D. K., Dharminder and Ranjan, Rajeev. (2015). Integrated weed management in turmeric.

**Research Papers presented in National Seminar on "Soil health management" from 28-29 at BAC, Sabour from 28-29 January, 2016**

1. Kumar, B. H., Antil R. S. Devraj, Singh, S., Laik, R., Yogendra, N. D. (2016). Historical Amendment of Farmyard manure and nitrogen fertilizer on soil fertility and soil carbon management index after 43 year cycles of Pearl millet-wheat cropping systems in and inceptisol of subtropical India.
2. Parveen, H., Singh, M. P. and Prasad, S. S. (2016). Generation of thematic soil maps to monitor spatial distribution of multi major nutrient deficiency in Rajendra Agricultural University Pusa Farm through Geo-informatics.
3. Prasad, S. S., Bharati, V., Singh, S. P., Dutta, S. and Majumdar, K. (2016). Enhancing hybrid maize yield, profitability and nitrogen use efficiency in Bihar using nutrient expert® fertilizer decision support tool.
4. Prasad, S. S., Mandal, K., Singh, M. P. and Kumar, A. 2016. An assessment of cationic micronutrient and sulfur status in calcareous soils of Bihar.
5. Singh, I. S., Kumar, Lokendra, Choudhary, A. K., Thakur, A. K., Singh, A. K. and Prasad, S. S. (2016). Comparison of fertility status of soils of Makhana growing pond and shallow agricultural fields.
6. Singh, P., Kumar, S. K. and Kumar, V. (2016). Integrated effect of bio-organics on physico-chemical properties of soil under Rice.
7. Singh, S. P., Singh, M. P., Jha, S., Prasad, S. S., Choudhary, S. K., Yadav, R. C., Dutta, S., Shahi, V. B. and Majumdar, K. (2016). Impact of Nutrient management on rice productivity and soil health in calcareous soil of Bihar..
8. Sinha, S. K. (2016). Bio-methanated distillery effluent and Bio-compost as promising alternatives of soil health and plant nutrients for sugarcane production and productivity.

## **Popular Articles Published**

1. Ali, M.S. and Ansari, M. N. (2015). Semal ki safal vaniki, *Kisan Mitra*, (April):06-08-15.
2. Ansari, M. N., Paswan, A. K. and Gond, V. K. (2015). Pardarsani tatha Mela:Vyapak jansampark ka sasakt madhyam, *Kisan Mitra*, April:13-16.
3. Chandra, S. And Kumar, S. (2015). Chhirkao awam bhurkao yantr ka rakh rakhao awam maramamt, *Adhunik Kisan*, 44 (3): 29-32.
4. Chandra, S., Kumar, M. and Kumar, S. (2015). Yantrikrot dhaan ki kheti hetu unnat krishi yantron ka chayan, upyog evam rakh-rakhav, *Adhunik Kisan*, 44 (2): 27-32.
5. Chaudhary, C.S., Anjana Arun, Jha, P.K and Rai, B. (2015). Bio-rational approach in plant disease managemen, *Rashtriya Krishi*, 10(2): 39-41.
6. Chaudhary, C.S., Jha, P.K and Rai, B. (2015). Impact of climate change on plant disease- An overview, *Rashtriya Krishi*, 10 (2): 9-11.
7. Choudhary, S. K., Dharminder, Singh, J. P. and Kumari, S. (2015). Hare chare ki kheti, *Adhunik Kisan*, 44 (3): 16-17.
8. Dayaram, (April 2015 to March 2016). News paper clips. 74, Hindustan, Telegraph, Dainik Jagran, Prabhat Khabar etc., April 2015 to March 2016.
9. Gupta, S. P. (2015). Pumping Set ki Samuchit Dekhbhal, *Adhunik Kisan*, 44 (3): 37-39.
10. Jha, C. K. (2015). Soil Health Management through carbon sequestration and sustainable sugarcane cultivation (in Hindi), *Aadhunik Kisan* 44 (4): 10-12.
11. Jha, C. K. (2016). Reclamation of problematic soil and Soil Health Management for sustainable agriculture (in Hindi), *Aadhunik Kisan*, 45 (1): 8-12.
12. Jha, R. K. (2015). Agroforestry and bamboo (in Hindi), *Krishi Vaniki Alok*, 7 (4A): 29-31.
13. Jha, R. K. (2015). Agroforestry-forage system for forage production (in Hindi), *Adhunik Kisan*, 44 (3): 43-46.
14. Kala, S. (2016). Safety masures for rural houses (in Hindi), *Aadhunik Kisan*, 45 (1): 69-70.
15. Kiran and Kavita, (2016). Herbal Kitnashak, *Aadhunik Kisan*, 45 (1): 69-70.
16. Kiran, (2015). Kadi patte ke labh tatha aushadhiye gun, *Aadhunik Kisan*, 44 (2): 16-17.
17. Kumar, B., Kumar, S., Varshney, S. K. and Singh, V. P. (2015). Genetic corrections in sugarcane variety: Safety from diseases and insects (in Hindi), *Aadhunik Kisan*, 44 (3): 18-20.
18. Kumar, M and Singh, S. P. (2015). Baigan ke pramukh keet evam rog prabandhan, *Aadhunik Kisan*, 44 (3): 27-28.

19. Kumar, M and Singh, S. P. (2015). Ghongho ka krishi mein mahatwa, *Aadhunik Kisan*, 43 (2): 22-24.
20. Kumar, M. and Singh, S.P. (2016). Garma Sabjion Mein Keet Prabandhan, *Aadhunik Kisan*, 45 (1): 32-34.
21. Kumar, M., Singh, S.P. and Choudhary, C. S. (2015). Raee-Sarson Mein Keet evam rog prabandhan, *Aadhunik Kisan*, 44 (3): 25-28.
22. Kumar, M., Yadav, R. C. and Singh, S. K. (2016). Mitti Ke Bhautik Gun Evam Swasthya, *Adhunik Kisan*, 45(1): 4-7.
23. Kumar, N. (2016). Madumakhipalan ki Uttam Kriyaen, *Aadhunik Kisan*, 45(1): 64-68.
24. Kumar, N., Nilanjay and Pandey, S. S. (2016). Water and nutrition management for sustainable cultivation of sugarcane (in Hindi), *Aadhunik Kisan*, 45(1):58-61.
25. Kumar, R., Singh, N. K. and Singh, A. K. (2015). Cultivation of aromatic rice and possibilities of export (in Hindi), *Aadhunik Kisan*, 43 (2): 8-11.
26. Kumar, R., Singh, N. K., Singh, A. K., Singh S. K., Nilanjay and Kumar, S. (2016). Direct sown rice an alternative (in Hindi), *Aadhunik Kisan*, 45 (1): 25-27.
27. Kumar, V. and Kumar, R. (2015). Gehun Men Sinchai Prabandhan, *Adhunik Kisan*, 44 (4): 06-07.
28. Kumari, A. (2015). Integrated disease management in Papaya cultivation (in Hindi), *Akchhaya Kheti* (2).
29. Kumari, A. (2015). Value addition in fruits and vegetables (in Hindi), *Aadhunik Kisan*, 45 (1): 55-57.
30. Kumari, A., Singh, S. K. and Mishra, P. K. (2016). Role of biofertilizers in plant nutrition and crop production (in Hindi) , *Kheti*: 24-27.
31. Kumari, G., Thakur, S. K. and Kumar, N. (2015). Importance of products in sugar production (in Hindi), *Kheti*, 2015.
32. Pandey, I. B. and Shukla, D. N. (2015). Effect of climate change in agriculture and its prevention. *Vigyan Garima Sindhu*, 91: 27-30.
33. Rai, D. (2015). Rai-Sarson ka Tel: Ekk Sanjiwani, *Adhunik Kisan*, 44 (4): 43-44.
34. Rai, D. and Singh, S. K. (2016). Sabjiyeon me Samekit Roag Prabandhan, *Adhunik Kisan*, 45 (1): 35-40.
35. Rai, S.C. and Kumar, S. (2016). Tikau matsya palan hetu mrida prabhan dhan, *Aadhunik Kisan*, 45 (1): 20-24.
36. Rai, S.C., Brahmchari, R. K. and Singh, M. K. (2015). Deshi mangur ka prajanan avam palan – Ek Labhkari Kheti, *Aadhunik Kisan*, 44 (2): 40-42.

37. Rajak, D. and Kumar, V. (2015). Adhunik takniko dwara khadya prasanskan aivum Bhandaran, *Adhunik Kisan*, 44(3): 40-41.
38. Ravikant and Paswan A. K. (2015). Shud beej utpadan me sabhadhaniya, *Kisan Mitra*, (2):17-18.
39. Roy, D. K., Dharminder and Ranjan R. (2015). Genhoon mein kharpatwar prabandhan, *Adhunik Kisan*, 44 (3): 8-9.
40. Roy, D. K., Dharminder, Ranjan R. and Kumari Pooja (2016). Sabjiyon mein kharpatwar prabandhan, *Adhunik Kisan*, 45 (1): 40-43.
41. Singh, P. P., Narayan, A. Singh, R. S. and Paswan, A. K. (2015). Jimikand ke Ketii, *Kisan Mitra*, (2):9-11.
42. Singh, S. K., Singh, A. K., Kumar, R. and Roy, D. K. (2015). Genhoon ki vaigyanic kheti, *Adhunik Kisan*, 44 (3): 1-5.
43. Singh, S. P., Singh, M. P. and Tiwari, S. (2016). Apni Bhumi Ke Urvarta Khud Jane, *Adhunik Kisan*, 45(1): 12-13.
44. Sinha, S. K., Kumar, B., Kamat, D. N. and Alam, M. (2015). Gann eke unnat prabhandan dwara bane gur se lav hi lav, *Aadhunik Kisan*, 44 (2): 38-39.
45. Suresh, R. (2016). Importance of irrigation in soil health and sustainable agriculture (in Hindi), *Aadhunik Kisan*, 45 (1): 14.
46. Yadav, L.M, Kumar, S. and Akhatar, R. (2015). Pyaz ki unnat kheti, *Aadhunik Kisan*, 44 (4): 17-19.
47. Yadav, R. C., Singh, M. P. and Jha, S. (2016). Mrida Swasthya : Chinta Aur Chintan, *Adhunik Kisan*, 45(1): 1-3.