

Research Papers

- Aishwath, O.P.; Singh, R.; Jha, B.K.; Ganeshamurthy, A.N. and Mehta, R.S. (2016). Liming influence on Fenugreek productivity including disease incidence and nutritional parameters of plant and soil under Typic Haplustalfs. *International Journal of Seed Spices*, 6(2): 71-77.
- Bhakta, N.; Kumar, Rahul; Mishra, J.S.; Prakash, Ved; Rao, K.K.; Yadav, Shikha; Jaiswal, K.K.; Kumar, S.S.; Sharma, B.K.; Sarma, Kamal; Sarkar, B. and Bhatt, B.P. (2017). Evaluation of rice varieties against multiple diseases under middle IGP of Bihar. *Journal of Pure and Applied Microbiology*, 11(1): 335-342.
- Bharati, R.C. (2016). Unequal Probability scheme for fruit count in a guava tree. *Journal of Agrisearch*, 3(4): 254-256.
- Bharati, R.C.; Chaudhary, K.K.; Singh, A.K.; Kumar, A., Kumar, U. and Chandra, N. (2017). Efficiency of optimum plot size using information of previous experiments conducted in split plot design. *Journal of Agrisearch*, 4(1): 60-67.
- Bhatt, B.P.; Moanaro and Sarkar, Bikash (2017). Fuelwood characteristics of some important trees and shrubs and emission of carbon dioxide in different states of Eastern India. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 39(4): 414-418. DOI: 10.1080/15567036.2016.1219792.
- Bhatt, B.P.; Moanaro; Sapu, C. and Sarkar, B. (2017). Fuelwood characteristics of some firewood trees and shrubs of Eastern Himalaya India. *Energy Sources Part-A*, 39(1): 47-50.
- Bhatt, B.P.; Parmar, B.; Bordoloi, L.J. and Bhattacharyya, R. (2016). Characterization and evaluation of hedges and multipurpose trees for their leaf litter decomposition kinetics and nutrient release patterns in the Indian Himalayas. *International Journal of Bio-resource and Stress Management*, 7(4) Special: 582-597.
- Bhatt, B.P.; Parmar, B.; Bordoloi, L.J.; Benjamin and Bhattacharyya, R. (2016). Impact of agroforestry systems on soil and nutrient conservation in the eastern Himalayas, India. *International Journal of Bio-resource and Stress Management*, 7(4) Special: 575-581.
- Bhavana, P. and Singh, A.K. (2016). Biodiversity in brinjal germplasm against resistance to bacterial wilt. *Bangladesh Journal of Botany*, 45(3): 737-739.
- Bhavana, P.; Singh, A.K.; Prajapati, G.K. and Tamilarasi, K. (2016). Phenotypic and molecular characterization of bacterial wilt resistance in brinjal. *The Bioscan (Supplement on Genetics & Plant breeding)*, 11(3): 2019-2023.
- Bhutia, T.L.; Kamal, R.K.; Mohanty, Snataashree and Kumar, Ujjwal. (2017). Constraints analysis in the crop-livestock farming systems of small and marginal farmers of Bihar. *SKLIA&T Journal of Research*, 19(1): 92-96.
- Chakrabarti, A. (2016). Hermaphroditism in a cross-bred pig: a case study. *International Journal of Agriculture Sciences*, 8(36): 1744-1745.
- Chakrabarti, A. (2016). Inherited posterior paralysis in crossbred pig – a case study. *International Journal of Environment, Ecology, Family and Urban Studies*, 6(3): 1-2.
- Chakrabarti, A. and Kumar, Pankaj (2016). Incidences of foot diseases of cattle in Bihar, India. *International Journal of Agricultural Science and Research*, 6(1): 267-272.
- Chakrabarti, A.; Buragohain S.C. and Baruah, K.K. (2017). Digestion cum metabolism trial in broiler rabbit fed on sweet potato based ration. *International Journal of Applied and Natural Sciences*, 6(2): 111-140.
- Chakrabarti, A.; Buragohain, S.C. and Baruah, K.K. (2017). Carcass characteristics of broiler rabbit fed on sweet potato based ration. *International Journal of Agricultural Science and Research*, 7(1): 347-358.
- Chakrabarti, A.; Buragohain, S.C. and Baruah, K.K. (2017). Chemical composition and gross energy content of sweet potato in north eastern hill region of India. *International Journal of Agricultural Science and Research*, 7(2): 135-142.
- Chakrabarti, A.; Buragohain, S.C.; Baruah, K.K. and Sarmah, B.C. (2017). Effect of sweet potato based ration on physiological and blood profile of broiler rabbit. *International Journal of Botany and Research*, 7(1): 1-18.

- Chakrabarti, A.; Dey, A. and Gupta, J.J. (2017). Malocclusion in Newzealand White Rabbit. *International Journal of Agricultural Science and Research*, 7(1): 275-276.
- Chatterjee, D.; Kumar, Rakesh; Kuotsu, R. and Deka, B.C. (2016). Validation of traditional weed control method through common salt application in the hill region of Nagaland. *Current Science* 110(8): 1159-1167. DOI: 10.18520/cs/v110/i8/1459-1467.
- Choudhary, J.S.; Naaz, N.; Prabhakar, C.S. and Moanaro (2016). Genetic analysis of oriental fruit fly, *Bactrocera dorsalis* (Diptera: Tephritidae) populations based on mitochondrial *cox1* and *nad1* gene sequences from India and other Asian countries. *Genetica* 144: 611-623.
- Das, B. (2016). Root distribution pattern in two age groups of litchi plants growing under Alfisols of Eastern plateau and hill region of India. *Ecology, Environment and Conservation*, 22 (June Supplement): 67-73.
- Das, B. and Dhakar, M.K. (2016). Effect of interstock on growth of vigorous mango cultivars under eastern plateau and hill region of India. *Vegtos-An International Journal of Plant Research*, 29(3): 1-5.
- Das, B. and Nath, Vishal. (2016). Performance of Traditional Mango Varieties from Different Parts of the Country under of Eastern Plateau and Hill Region. *Environment and Ecology*, 4(C): 2010-2013.
- Das, Bikash; Dhakar, M.K.; Sarkar, P.K.; Kumar, S.K.; Nath, Vishal; Dey, P.; Singh, A.K. and Bhatt, B.P. (2017). Performance of mango (*Mangifera indica*) based agri-horticultural systems under rainfed plateau conditions of eastern India. *Indian Journal of Agricultural Sciences*, 87(4): 521-527.
- Dayal, S.; Kumari, R.; Dey, A. and Kumar, B. (2016). PCR-SSCP of growth hormone gene and its association with body weight in Black Bengal goat. *Indian Journal of Animal Sciences*. 86(11): 1283-1286.
- Devi, Sarita; Kumar, Pankaj and Sharma, M.C. (2016). Correlation of Micro Minerals in Primary Hair-Plasma of Dogs. *Journal of Animal Research*. 6(5): 1-6.
- Dhakar, M.K. and Das, B. (2017). Standardization of grafting technique in litchi. *Indian Journal of Horticulture*, 74(1): accepted
- Dhakar, M.K.; Singh, A.K.; Singh, S.K.; Patel, V.B. and Pal, M. (2017). Induction of changes by nitrification inhibitor and nitrogen source on vegetative growth, physiological processes and biochemical constituents of Kinnow mandarin. *Indian Journal of Agricultural Sciences*. 87(4): 479-484.
- Dixit, B.; Ghosh, K.K.; Fernandes, G.; Kumar, Pankaj; Gogoi, P.; Kumar, Manish. (2016). Dual Nuclease Activity of a Cas2 protein in CRISPR-Cas subtype I-B of *Leptospira interrogans*. *FEBS Letter*. 590(7): 1002-1016.
- Dwivedi, S.K.; Basu, Sahana; Kumar, Santosh; Kumar, Gautam; Ved, Prakash; Kumar, Sanjeev; Mishra, J.S.; Bhatt, B.P.; Malviya, N.; Singh, G.P. and Arora, A. (2017). Heat stress induced impairment of starch mobilisation regulates pollen viability and grain yield in wheat: Study in Eastern Indo-Gangetic Plains. *Field Crops Research*, 206: 106-114.
- Dwivedi, S.K.; Bhakta, N.; Kumar, Santosh and Mishra, J.S. (2017). Characterization of submerged tolerant elite rice genotypes having improved physiological traits and oxidative defence system grown under rainfed lowland ecosystem of eastern Indo-Gangetic Plains. *Agricultural Research*. DOI:10.1007/s40003-017-0258-6
- Dwivedi, S.K.; Arora, A. and Kumar, S. (2017). Paclobutrazol-induced alleviation of water-deficit damage in relation to photosynthetic characteristics and expression of stress markers in contrasting wheat genotypes. *Photosynthetica* 55(2): 351-359.
- Dwivedi, S.K.; Arora, A. Singh, V.P. and Singh, G.P. (2017). Induction of water deficit stress tolerance in wheat due to exogenous application of Plant Growth Regulators: membrane stability, water relation and photosynthesis. *Photosynthetica*, DOI: 10.1007/s11099-017-0695-2.
- Dwivedi, S.K.; Arora, A.; Singh, V.P.; Sairam, R.K. and Bhattacharya, R.C. (2016). Effect of sodium nitroprusside on differential activity of antioxidants and expression of SAGs in relation to vase life of gladiolus cut flowers. *Scientia Horticulturae*. 210: 158-165.
- Dwivedi, S.K.; Kumar, S.; Prakash, V.; Mishra, J.S.; Singh, S.S. and Kumar, S. (2017). Influence of elevated CO₂ and temperature on physiological traits and yield attributes of heat tolerant wheat genotype Halna grown inside open top chambers. *Indian Journal of Plant Physiology*, 22: 94-100. DOI 10.1007/s40502-016-0280-x
- Dwivedi, S.K.; Kumar, S.; Kumar, R.; Ved Prakash; Rao, K.K.; Samal, S.K.; Yadav, S.; Jaiswal, K.K.; Kumar, S.S.; Sharma, B.K. and Mishra, J.S. (2017). Interactive Effect of Elevated CO₂ and Temperature on the Incidence of Brown Spot and Sheath Blight of Rice (*Oryza sativa* L.). *International journal of Current Microbiology and Applied Science*. 6(4):195-202.

- Govindarajan, Vijayakumar; Pandian, S.J.; Venkatesakumar, E.; Kathirvel, S.; Subramanian, M. and Dharmaceelan, S. (2016). Endoscopic diagnosis of megaesophagus in a buffalo. *Buffalo Bulletin*, 25(2): 147-150
- Gupta, J.J. and Dey, A. (2016). Nutritive value and economics of fodder production of different maize (*Zea mays*) varieties during winter season. *Indian Journal of Animal Nutrition*, 33(2): 212-215.
- Gupta, J.J.; Dey, A.; Bhatt, B.P. and Barari, S.K. (2016). Potential yield and nutritive value of promising forages of eastern India. *Ridge Management and Agroforestry*, 37(2): 248-251.
- Gupta, J.J.; Dey, A.; Dayal, S. and Barari, S.K. (2016). Performance of Heifer fed on total mixed ration. *Indian Veterinary Journal*, 93(8): 29-31.
- Jest, S.; Singh, J.P. and Kumar, Rakesh (2017). Production potential and nutrient uptake of QPM hybrids as influenced by nitrogen and sulphur fertilization. *Journal of AgriSearch* 4(1): 27-30. <http://dx.doi.org/10.21921/jas.v4i1.7415>.
- Jha, B.K and Chakraborti, A. (2017). Back yard poultry farming as a source of livelihood in Tribal village: An economic appraisal. *International Journal of Agricultural Sciences*, 7(1): 267-274.
- Kamal, R.; Dey, A.; Mondal, K.G. (2016). Impact of Environmental Stressors on the Performance of Backyard Poultry. *Proc. Natl. Acad. Sci., India. Sect. B Biol. Sci.*, 1-6. doi:10.1007/s40011-016-0741-z.
- Kumar, Hemant; Priya, Priti; Singh, Nena; Kumar, Mukesh; Choudhary, Binod Kumar; Kumar, Lokendra; Singh, Indu Shekhar and Kumar, Nitish (2016). RAPD and ISSR marker-based comparative evaluation of genetic diversity among Indian germplasm of *Euryale ferox*: An aquatic food plant. *Applied Biochemistry and Biotechnology*, DOI 10.1007/s12010-016-2171-z.
- Kumar, A.; Patil, N.S. and Kumar, Rakesh (2016). Effect of irrigation schedules and fertility levels on growth, yield and economics of *Jatropha (Jatropha curcas L.)* under South Gujarat condition. *Environment & Ecology*, 34(4D): 2561-2565.
- Kumar, A.; Patil, N.S. and Kumar, Rakesh (2016). Production potential and quality of *Jatropha (Jatropha curcas L.)* as influenced by irrigation schedules and fertility levels. *Ecology, Environment and Conservation*, 22(4): 1835-1840.
- Kumar, A.; Patil, N.S. and Kumar, Rakesh (2016). Productivity, water use efficiency and nutrient content of *Jatropha (Jatropha curcas L.)* as influenced by varying irrigation scheduling and fertility levels. *International Journal of Agricultural and Statistical Sciences*, 12(S1): 261-266.
- Kumar, A.; Sen, A. and Kumar, Rakesh (2016). Micronutrient fortification in crop to enhance growth, yield and quality of aromatic rice. *Journal of Environmental Biology*, 37(5): 973-977.
- Kumar, A.; Sen, A.; Kumar, Rakesh and Upadhyay, P.K. (2016). Effect of zinc, iron and manganese levels on growth attributes and grain yield of rice. *Ecology, Environment and Conservation*, 22(2): 729-734.
- Kumar, Anjani; Singh, R.K.P. and Abhay Kumar (2016). Rural labour employment and their livelihoods in Bihar: Micro-level evidences from selected villages. *Indian Journal of Labour Economics*. DOI 10.1007/s41027-016-0034-3.
- Kumar, Anjani; Singh, R.K.P.; Kumar, Abhay; Betne, Rajeev and Singh, K.M. (2016). Adoption of Modern Rice Cultivation Practices in Bihar, India: Micro-level Evidences from Village-Level Studies. *Agricultural Research*. DOI 10.1007/s40003-016-0234-6.
- Kumar, B.; Prasad, S. and Kumar, Rakesh (2016). Efficacy of herbicide in weed management practices to maximize the productivity and profitability of transplanted rice. *Environment & Ecology*, 34(4B): 2143-2147.
- Kumar, L.; Singh, A.K. and Bhatt, B.P. (2016). Nutritional status of recently developed Makhana (Gorgon Nut) variety- Swarna Vaidehi. *Journal of AgriSearch*, 3(4): 199-2015.
- Kumar, M.; Kumar, Rakesh; Meena, K.L.; Rajkhowa, D.J. and Kumar, A. (2016). Productivity enhancement of rice through crop establishment techniques for livelihood improvement in Eastern Himalayas. *Oryza*, 53(3): 300-308.
- Kumar, P.; Singh, Y. and Kumar, Rakesh (2016). Productivity, profitability, nutrient uptake and soil health of boro rice as influenced by cultivars and herbicides. *International Journal of Agricultural and Statistical Sciences*, 12(S1): 177-183.
- Kumar, R.; Kumawat, N.; Kumar, S.; Kumar, R.; Kumar, M.; Sah, R.P.; Kumar, U. and Kumar, A. (2017). Direct Seeded Rice: Research strategies and opportunities for water and weed management. *Oryza*, 53(4): 354-365.
- Kumar, Rakesh (2017). Production potential, quality and nutrient uptake of linseed as influenced by fertility levels and seeding rates under the foot hill condition of Nagaland. *Bangladesh Journal of Botany*, 46(1): 67-71.
- Kumar, Rakesh and Deka, B.C. (2016). Response of fertility levels and seeding rates on production potential and moisture use efficiency of linseed under foot hill condition of Nagaland. *Indian Journal of Hill Farming*, 29(1): 1-5.

- Kumar, Rakesh; Chatterjee, D.; Deka, B.C. and Ngachan, S.V. (2017). Validation of common salt application on productivity, profitability, nutrient uptake and soil health of upland rice (*Oryza sativa* L.) under shifting cultivation area of Nagaland. *Indian Journal of Traditional Knowledge*, 16(2): 341-349.
- Kumar, Rakesh; Chatterjee, D.; Deka, B.C.; Kumar, M.; Kuotsu, R.; Ao, M. and Ngachan, S.V. (2016). Weed management practices in upland direct seeded Jhson rice under the Eastern Himalayas. *Research on Crops*, 17(2): 199-204. DOI:10.5958/2348-7542.2016.00035.8.
- Kumar, Rakesh; Hangsing, N.; Ao, M.; Zeliang, P.K. and Deka, B.C. (2016). Exploration, collection and conservation of local maize germplasm of Nagaland. *Indian Journal of Hill Farming*, 29(1): 87-93.
- Kumar, Rakesh; Hangsing, N.; Yhokha, K. and Deka, B.C. (2016). Evaluation of mungbean lines (*Vigna radiata* L.) for enhancing cropping intensity and productivity under rainfed condition of Nagaland. *Environment & Ecology*, 34(4C): 2319-2323.
- Kumar, Rakesh; Hangsing, N.; Zeliang, P.K. and Deka, B.C. (2016). Exploration, collection and conservation of local rice germplasm of Nagaland. *Environment & Ecology*, 34(4D): 2514-2517.
- Kumar, Rakesh; Hangsing, N.; Deka, B.C. and Kumar, M. (2016). Evaluation of different sesame lines (*Sesamum indicum* L.) for enhancing the cropping intensity and productivity under foot hill condition of Nagaland. *Indian Journal of Hill Farming*, 29(1): 29-35.
- Kumar, Rakesh; Kumawat, N.; Kumar, S.; Singh, A.K. and Bohra, J.S. (2017). Effect of NPKS and Zn fertilization on growth, yield and quality of baby corn-A Review. *International Journal of Current Microbiology and Applied Sciences*, 6(3): 1392-1428. <https://doi.org/10.20546/ijcmas.2017.603.161>.
- Kumar, Rakesh; Yhokha, K.; Hangsing, N. and Deka, B.C. (2016). Effect of sowing dates on early maturing Indian mustard varieties (*Brassica juncea* L.) for enhancing cropping intensity and productivity under foot hill condition of Nagaland. *Environment & Ecology*, 34(4C): 2005-2009.
- Kumar, Rakesh; Yhokha, K.; Rajesha, G. and Deka, B.C. (2017). Performance of jobs tears lines (*Coix lacryma-jobi*) under foot hill condition of Nagaland. *Environment & Ecology*, 35(1B): 440-444.
- Kumar, S.; Kumar, Pankaj; Kumar, D. and Kumar, Pankaj (2016). Enterolithiasis resulting in diaphragm rupture in captive *Equus burchelli* on post mortem examination. *Indian Journal of Veterinary Pathology*, 40(3): 287-289.
- Kumar, S.; Dwivedi, S.K.; Kumar, R.; Bhakta, N.; Ved Prakash; Rao, K.K.; Samal, S.K.; Yadav, S.; Jaiswal, K.K.; Kumar, S.S.; Sharma, B.K. and Mishra, J.S. (2017). Evaluation of Rice Genotypes for Resistance against False Smut of Rice (*Oryza sativa* L.) under Middle IGP of Bihar. *International journal of Current Microbiology and Applied Science*, 6(4): 537-543.
- Kumar, S.; Mishra, J.S.; Singh, A.K.; Dwivedi, S.K.; Singh, S.K.; Singh, S.S.; Haris, A.A.; Mondal, S.; Bhatt, B.P.; Singh, S. and Yadav, A. (2016). Response of rice (*Oryza sativa* L.) genotypes to weed management in rainfed ecosystems of eastern India. *Indian Journal of Agronomy*, 61(1): 37-44.
- Kumar, Santosh; Dwivedi, S.K.; Kumar, Rahul; Bhakta, N.; Prakash, Ved; Rao, K.K.; Kumar Rakesh; Yadav, Shikha; Choubey, A.K. and Mishra, J.S. (2017). Screening of different rice germplasm against multiple disease under submergence condition in middle Indo Gangetic Plain. *International Journal of Current Microbiology and Applied Sciences*, 6(5): 335-339.
- Kumari, R.; Dayal, S.; Kumar, S.; Chandran, P.C. and Dey, A. (2017). Genetic Polymorphism of Bone morphogenetic protein receptor type-1 gene in crossbred does of Bihar. *Indian Journal of Animal Sciences*, 87(4): 130-132.
- Mali, S.S. and Singh, D.K. (2016). Groundwater modelling for assessing the recharge potential and water table behaviour under varying levels of pumping and recharge. *Indian Journal of Soil Conservation*, 44(2): 93-102.
- Mali, S.S.; Jha, B.K.; Naik, S.K.; Singh, A.K. and Kumar, A. (2016). Effect of fertigation pattern and planting geometry on growth, yield and water productivity of tomato (*Solanum lycopersicon*). *Indian Journal of Agricultural Sciences*, 86(9): 1208-1213.
- Mali, S.S.; Naik, S.K. and Bhatt, B.P. (2016). Spatial variability in soil properties of mango orchards in Eastern Plateau and Hill region of India. *Vegetos- An International Journal of Plant Research*, 29(3): 1-6. DOI: 10.4172/2229-4473.1000141.
- Manubhushan (2016). Soil analysis including the status of ground water availability for increasing crop production. *International Journal of Tropical Agriculture*, 34(5): 1399-1401.