

## Research Papers

- Batra K, Kumar A, Maan S, Kumar V, Kumari R and Nanda T. 2018. Recombinant interferon stimulated protein 15 (rISG15) as a molecular marker for detection of early pregnancy in *Bubalus bubalis*. *Animal Reproduction Science*, 197, 106-116.
- Batra K, Nanda T, Kumar A, Gupta AK, Kumari R, Kumar V, Sheoran N. and Maan S. 2018. Molecular cloning and characterization of Mx2 for early pregnancy diagnosis in *Bubalus bubalis*. *Proceedings of National Academy of Science, India Section B, Biological Science* DOI: <https://doi.org/10.1007/s40011-018-0993-x>.
- Bharti PK, Dutt T, Patel BHM, Pandey HO, Ojha B, Kamal R, Upadhyay D, Singh M. and Gaur GK. 2018. Effect of weaning age on growth measurements and sero-biochemical parameters in Murrah buffalo calves. *Indian Journal of Animal Sciences*, 88(11): 1305-1309.
- Bhat JS, Patil BS, Hariprasanna K, Hossain F, Muthusamy V, Mukri G, Mallikarjuna MG, Zunjare R, Singh SP, Sankar SM, Singhal T, Venkatesh K, Gupta V, Chakraborti M, Chattopadhyay K, Ghagane SC, Hiremath MB and Choudhary AK. 2018. Genetic enhancement of micronutrient content in cereals. *SABRAO Journal of Breeding and Genetics*, 50(3): 373-429.
- Bhatt BP, Sarkar PK, Lemtur Moanaro, Sarkar B and Rao KK. 2018. Quantitative and Qualitative Analysis of Some Firewood Trees and Shrubs of Eastern India. *Environmental Progress and Sustainable Energy*. DOI: 10.1002/ep.13156
- Bhavana P, Singh AK and Maurya S. 2018. Grafting in tomato and brinjal to control bacterial wilt - a success. *Multilogic in Science*, 8(C): 155-157.
- Bhavana P, Singh AK, Kumar R, Prajapati GK, Thamilarasi K, Manickam R, Maurya S. and Choudhary JS. 2019. Identification of resistance in tomato against root knot nematode (*Meloidogyne incognita*) and comparison of molecular markers for Mi gene. *Australasian Journal of Plant Pathology*, 48(2): 93-100.
- Chandra N, Roy ML, Mukherjee A, Jethi R. and Joshi K. 2018. A Study of Migration Pattern in Kumaun Hills and Associated Socio-Economic Factors. *Journal of Community Mobilization and Sustainable Development*, 13(1): 107-112.
- Chandran PC, Dey A, Kamal Reena, Kumar P and Karan D. 2019. Production and reproduction performance of Gangatiri cattle in middle Gangetic plains of Bihar. *Indian Journal of Animal Sciences*, 89(3): 298-303.
- Choudhary AK, Sultana Rafat, Vales MI, Saxena KB. 2018. Integrated physiological and molecular approaches to improvement of abiotic stress tolerance in two pulse crops of the semi-arid tropics. *The Crop Journal* 6(2): 99-114.
- Choudhary JS, Mali SS, Fand B and Das B. 2019. Predicting the invasion potential of indigenous restricted mango fruit borer, *Citripestis eutrappera* (Lepidoptera: Pyralidae) in India based on MaxEnt modelling. *Current Science*, 116(4): 636-642.
- Choudhary JS, Prabhakar CS, Naaz Naiyar, Lemtur Moanaro, Das Bikash, Kumar Shivendra and Bhatt BP. 2019. Genetic diversity of mango leafhopper, *Amritodusatkinsoni* (Hemiptera: Cicadellidae) based on mtCOI gene sequences from India. *Mitochondrial DNA Part B*, 4(1): 261-264.
- Das B, Mehta S, Singh SK, Mali S and Dhakar MK. 2018. Pruning responses of guava cv Allahabad Safeda growing under ultra high density orcharding system. *Multilogic in Science*, 8(B):429-434.

- Das B, Mehta S, Singh SK, Mali S, Dhakar MK and Singh AK. 2018. Pruning effects on Sardar guava planted in ultra high density orcharding under different rainfall scenarios. *Indian Journal of Horticulture*, 75(4): 583-590.
- Das B, Nath V and Dhakar MK. 2018. An understanding into plant growth relationships in litchi 'Shahi' under plateau and hill region of eastern India. *Acta Horticulturae*, 1211(12): 87-92.
- Das, Bikash, Sarkar, PK, Kumari N, Dey P, Singh A K and Bhatt BP. 2017. Biophysical performances of different multipurpose trees species under Jharkhand state of India. *Current Science*, 116(1): 82-88.
- Dayal S, Kumar P, Sharma A, Bhattacharya TK and Kaushik P. 2019. Differential expression of serum lysozyme allelic variants in Muzaffarnagri sheep. *Journal of Animal Research*, 9(1): 61-65.
- Deokaran, Singh Mandhata, Parvez Arif, Mishra JS and Bhatt B.P. 2018. Direct seeded rice: An option for enhancing the productivity, improving resource use efficiency and minimizing the production cost of rice. *Journal of Agri Search*, 5(3): 159-162
- Devi J, Sanwal SK, Koley TK, Mishra GP, Karmakar P, Singh PM and Singh B. 2019. Variations in the total phenolics and antioxidant activities among garden pea (*Pisum sativum* L.) genotypes differing for maturity duration, seed and flower traits and their association with the yield. *Scientia Horticulturae*, 244: 141-150.
- Dey A, Kamal Reena and Bhatt BP. 2018. Evaluation of the livestock sector contribution to small holders in eastern India. *Indian Journal of Animal Sciences*, 88(3): 1-8.
- Dhakar MK, Das B, Nath V, Sarkar PK and Singh AK. 2019. Genotypic diversity for fruit characteristics in bael [*Aegle marmelos* (L.) Corr.] based on principal component analysis. *Genetic Resources and Crop Evolution*, 66(4): 951-964.
- Dubey AK, Sinha P, Baranwal VK, Mishra S and Saritha RK. 2019. Temperature influence on leaf crinkle disease expression in urdbean (*Vigna mungo* (L.) Hepper) and potential distribution of the disease in India, *Crop Protection*, 120: 84-90.
- Dwivedi SK, Arora A, and Singh VP. 2019. Effects of exogenously applied plant growth regulators on the physiology and antioxidant activity of wheat under water deficit condition. *Plant Physiology Reports*, 24(1): 54-62.
- Dwivedi SK, Arora A, Singh VP and Singh GP. 2018. Induction of water deficit tolerance in wheat due to exogenous application of plant growth regulators: membrane stability, water relations and photosynthesis. *Photosynthetica*, 56(2): 478-496.
- Dwivedi SK, Kumar G, Basu S, Kumar S, Rao KK, Choudhary AK. 2018. Physiological and molecular aspects of heat tolerance in wheat. *SABRAO Journal of Breeding & Genetics*, 50(2): 192-216.
- Dwivedi SK, Kumar S, Bhakta N, Srivastava A K, Mishra JS, Kumar V, Kumara BH, Bhatt BP and Singh S. 2018. Physiological mechanism and Nutrient Management strategies for flood tolerance in rice grown in lowland flood prone ecosystem. *Journal of Crop Science and Biotechnology* 21(4): 321-331.
- Dwivedi SK, Kumar Santosh, Mishra JS, Haris AA, Singh SK, Srivastava AK, Ashok Kumar, Kumar Virender, Singh Sudhanshu and Bhatt BP. 2019. Effect of moisture regimes and sowing dates on wheat physiological process and yield attributes under rain-fed ecosystem in Eastern Indo Gangetic Plain. *Plant Physiology Reports*, 24(1): 46-53.
- Dwivedi SK, Kumar Santosh, Ved Prakash, Mishra JS and Bhatt BP. 2018. Effect of Terminal Heat Stress on Wheat Phenology, Physiology and their Amelioration through Salicylic Acid Application. *International Journal of Agriculture, Environment and Biotechnology*, (SP1):1035-1041.
- Gupta JJ and Dey A. 2019. Evaluation of berseem (*Trifolium alexandrinum* L.) varieties for fodder and seed production. *Indian Journal of Animal Nutrition*, 36(1): 91-93.
- Hegde VS, Tripathi S, Bharadwaj C, Agrawal PK and Choudhary AK. 2018. Genetics and genomics approaches to enhance adaptation and yield of chickpea (*Cicer arietinum* L.) in semi-arid environments. *SABRAO Journal of Breeding & Genetics*, 50(2): 217-241.

- Jana BR, Srivastava Anuradha and Idris M. 2018. Climate Change Effects and Quality Makhana Production under Wetland Ecosystem of North Bihar. *International Journal of Current Microbiology and Applied Sciences*, 7(12): 578-587.
- Jana BR. 2018. Calcium Oxalate content and diversity in *Alocasia Spp.* *International Journal of Agriculture Sciences*, 10(23): 7595-7598.
- Jana BR. 2018. Flower characteristics and pollination behavior of *Euryale ferox* Salisb. *American Journal of Plant Sciences, Flowers and Pollen*, 9(4) (Special Issue): 722-731
- Jeet P. Singh DK and Sarangi A. 2019. Development of a composite hydrologic index for semi-arid region of India. *Ground Water*. DOI: <https://doi.org/10.1111/gwat.12867>.
- Kamal R, Dey A, Chandarn PC, Mohanta RK, Giri SC, Mohanty S, Gupta SK and Barari SK. 2018. Phenotypic and morphometric characterization of desi duck of Odisha. *Indian Journal of Animal Sciences*, 89(3): 334-336.
- Kamal R, Dutt T, Patel M, Dey A, Bharti PK and Chandarn PC. 2018. Heat stress and effect of shade materials on hormonal and behavior response of dairy cattle: a review. *Tropical Animal Health and Production*, 50 (4): 701-706.
- Karkute SG, Koley TK, Yengkhom BK, Tripathi A, Srivastava S, Maurya A and Singh B. 2018. Anti-diabetic phenolic compounds of black carrot (*Daucus carota* subspecies *sativus* var. *atrorubens* Alef.) inhibit enzymes of glucose metabolism: An *in silico* and *in vitro* validation. *Medicinal Chemistry*, 14(6): 641-649.
- Kaushik P, Kumari Anjay, Dayal S and Kumar S. 2018. Antimicrobial resistance and molecular characterization of *E. coli* from poultry in Eastern India. *Veterinaria Italiana*, 54(3): 197-204.
- Kharumnuid P, Pandey NK and Singh DK. 2018. An Analysis of Farm-Level Adoption of Improved Potato Production Technologies in Western Uttar Pradesh. *Journal of AgriSearch*, 5(4): 276-281.
- Koley TK, Maurya A, Tripathi A, Singh BK, Singh M, Tripathi PC and Singh B. 2018. Antioxidant potential of commonly consumed underutilized leguminous vegetables. *International Journal of Vegetable Science*, 1-11.
- Koley TK, Tiwari SK, Sarkar A, Nishad J, Goswami A and Singh B. 2019. Antioxidant Potential of Indian Eggplant: Comparison Among White, Purple and Green Genotypes Using Chemometrics. *Agricultural Research*, 8(1): 9-20.
- Kumar A, Jaiswal V, Kumar V, Dey A and Kumar A. 2018. Functional redundancy in Echinocandin B in-cluster transcription factor ecdB of *Emericellarugulosa* NRRL 11440. *Biotechnology Reports* 19: e00264. DOI: <https://doi.org/10.1016/j.btre.2018.e00264>.
- Kumar Abhay, Singh AK, Kumar U, Singh KM, Singh RKP and Bharati RC. 2018. Training needs assessment of farmers of Bihar: A zone wise analysis. *Journal of AgriSearch*, 5(2): 130-133.
- Kumar Abhay, Singh RKP, Chandra N, Bharati RC, Kumar U and Mishra JS. 2018. Foodgrain production performance in Bihar: A temporal analysis. *Indian Journal of Agricultural Sciences*, 88(8): 1227-1232.
- Kumar Abhay, Singh RKP, Kumar Pankaj, Singh KM, Kumar Ujjwal and Mishra JS. 2019. Rural labour employment and livelihoods in tribal villages of eastern India, *Indian Journal of Agricultural Sciences*, 89(3): 426-32
- Kumar B, Sahoo AK, Ray PK, Chandran PC, Taraphder S, Das AK, Batabyal S and Dayal S. 2019. Evaluation of environmental heat stress on physical and hormonal parameters in Murrah buffalo. *Journal of Animal Health and Production*, 7(1): 21-24.
- Kumar Nitish, Rani Shweta, Kumar Gaurav, Kumari Swati, Singh IS, Gautam S and Choudhary BK. 2018. Physiological and biochemical responses of Makhana (*Euryale ferox*) to gamma irradiation. *Journal of Biological Physics*, 44(3): 459-470.
- Kumar P, Lal K, Mukherjee A, Pradhan UK, Ray M and Prakash O. 2018. Advanced row-column designs for animal feed experiments. *Indian Journal of Animal Sciences*, 88(4): 499-503.
- Kumar Pankaj, Dey A, Kumar Abhay, Ray PK, Chandran PC, Kumari RR and Kumar Manish. 2018. PPR outbreaks in Black Bengal goats and possible role of oxidative stress in PPR associated abortion. *Tropical Animal Health Production*, 50(7):1441-1447.

- Kumar PP, Abraham T, Pattanaik SSC, Kumar Rakesh, Kumar U and Kumar A. 2018. Effect of customised leaf colour chart (CLCC) based real time N management on agronomic attributes and protein content of rice (*Oryza sativa* L.). *Oryza* 55 (1):165-173.
- Kumar Rakesh, Mishra JS, Upadhyay PK and Hans H. 2019. Rice fallows in the Eastern India: Problems and Prospects. *Indian Journal of Agricultural Sciences* 89(4): 567-577.
- Kumar Rakesh, Patra MK, Thirugnanavel A, Deka BC, Chatterjee D, Borah TR, Rajesha G, Talang HD, Ray SK, Kumar M and Upadhyay PK. 2018. Comparative evaluation of different integrated farming system models for small and marginal farmers under the Eastern Himalayas. *Indian Journal of Agricultural Sciences* 88(11):1722-29.
- Kumar S, Jotish N, Choudhary KP, Pandey NK, Prakash O and Singh Mandhata 2019. Effect of different doses of fertilizers in combination of bio-fertilizers with organic manure on growth parameters yield and yield attributes of French bean. *An Asian Journal of Soil Science*. 13(2):148-152.
- Kumar S, Roy ML, Mukherjee A. 2018. Marketing Behaviour of Vegetable Growers in Uttarakhand hills. *Journal of Community Mobilization and Sustainable Development*, 13(1): 68-74.
- Kumar S, Sehgal JP, Puriya AK and Kumari R. 2018. *In vitro* biodegradation of wheat straw and wheat straw based total mixed ration using zoospores of different elite ruminal fungi. *Journal of AgriSearch*. 5(4): 269-275
- Kumar Sanjeev, Shivani and Bhatt BP. 2018. Integrated farming systems for irrigated ecosystems. *Kerala Karshakan*, 5(10): 4-11.
- Kumar Sanjeev, Shivani, Bhatt BP and Kumar Abhay. 2018. Enhancement in livelihood of resource poor farmers through Integrated Farming Systems in the Eastern region. *Multilogic in Science* 8: Special issue (D)111-114.
- Kumar Sanjeev, Shivani, Mishra JS, Kumar Santosh, Kumar Ujjwal and Bharti RC. 2018. Efficacy of pre- and post- emergence herbicides on complex weed flora in direct-seeded rice (*Oryza sativa*) in the eastern plains. *Indian Journal of Agricultural Sciences* 88(3): 387-92.
- Kumar Sanjeev, Bhatt BP, Dey A, Shivani, Kumar U, Idris Md., Mishra JS and Kumar Santosh 2018. Integrated Farming System in India: Current status, Scope and Future prospects in Changing Agricultural Scenario. *Indian Journal of Agricultural Sciences*. 88(11): 1661-1675
- Kumar Santosh, Dwivedi SK, Kumar R, Dubey AK, Kumar R., Rao K K, Bhakta N and Mishra JS. 2018. Screening of rice germplasm against multiple diseases under drought condition in middle IGP of Bihar. *Journal of Pharmacognosy and Phytochemistry*. SPI: 3232-3235.
- Kumar Santosh, Dwivedi SK, Rao KK, Mishra, JS, Singh AK, Bhakta N, Ved Prakash, Singh SK, Kumar V and Bhatt BP. 2018. Optimizing dosage and mode of potassium application for rice in drought-prone rainfed ecology of middle Indo-Gangetic Plains. *Agricultural Research*. 7(2): 215-224.
- Kumar Santosh, Kumar R, Mishra JS, Dwivedi SK, Singh AK, Ved Prakash, Rao KK, Bhakta N, Bhatt BP, Singh SS, Haris AA, Kumar V, Srivastava AK, Singh S and Yadav A. 2018. Optimization of seeding rates and nitrogen scheduling in direct-seeded rice (*Oryza sativa*) under drought-prone environment in middle Indo-Gangetic plains. *Indian Journal of Agronomy*, 63(4): 447-452.
- Kumar Santosh, Kumar Rakesh, Mishra JS, Dwivedi SK, Prakash V, Rao KK, Singh AK, Bhatt BP, Singh SS, Haris AA, Kumar V, Srivastava AK, Singh S and Yadav A. 2018. Productivity and profitability of rice (*Oryza sativa*) genotypes as influenced by crop management practices under middle Indo-Gangetic Plains. *Indian Journal of Agronomy* 63 (1): 45-49.
- Kumar Santosh, Kumar Rakesh, Mishra JS, Dwivedi SK, Singh AK, Prakash V, Rao KK, Bhakta N, Bhatt BP, Singh SS, Haris AA, Kumar V, Srivastava AK, Singh S and Yadav A. 2018. Optimization of seeding rates and nitrogen scheduling in direct-seeded rice under drought-prone environment in middle Indo-Gangetic plains. *Indian Journal of Agronomy* 63(4):447-452.

- Kumar U, Bharati RC, Chaubey RK, Rao KK, Prakash V and Kumar Abhay 2018. Gender perspective of conservation. *Indian Journal of Agricultural Sciences*, 88(8): 1202-1207.
- Kumar Vinay, Bansal Nitish, Nanda Trilok, Kumar Aman, Kumari Rajni and Maan Sushila 2019. PCR Based Molecular Diagnostic Assays for Brucellosis: A Review. *International Journal of Current Microbiology and Applied Sciences*, 8(2): 2666-2681.
- Kumari R, Batra K, Kumar V, Kumar A, Maan S and Nanda T. 2019. Comparative evaluation of five different methods for DNA extraction from semen of buffalo bull. *Journal of AgriSearch*, 6(1): 50-54
- Kumari Swati, Ray PK, Singh R and Saikumar G. 2019. Pathogenicity of porcine sapelovirus infection in mice. *Indian Journal of Animal Sciences*, 89(2): 123-127.
- Kumari Swati, Ray PK, Singh Rahul, Desingu PA, Taru Sharma G. and Saikumar G. 2018. Development of a Taqman-based real-time PCR assay for detection of porcine sapelovirus infection in pigs. *Animal Biotechnology*. DOI: 10.1080/10495398.2018.1549561
- Kumari Uma Mahto, Azma Saheen, Kumari Swati, Singh IS and Kumar Nitish 2018. DNA polymorphism analysis of Indian germplasm of *Trapa natans* using RAPD molecular Marker. *Biocatalysis and Agricultural Biotechnology*, 15: 146-149.
- Kumari Swati, Ray PK, Singh Rahul, Desingu PA, Varshney R and Saikumar G. 2019. Pathological and molecular investigation of porcine sapelovirus infection in naturally affected Indian pigs. *Microbial Pathogenesis*, 127: 320-325.
- Kumawat N, Yadav RK, Khandekar UR, Bangar KS, Tiwari SC, Morya J and Kumar Rakesh. 2019. Studies on integrated weed management practices in maize: A review. *Agricultural Reviews* 40(1):29-36.
- Mali SS and Singh DK 2018. Characterization of Aquifer Systems and Identification of Potential Groundwater Recharge Zones Using Geospatial Data and GIS. *Acta Scientific Agriculture*, 2(10): 29-34.
- Mali SS, Singh DK, Sarangi A and Parihar SS. 2018. Assessing water footprints and virtual water flows in Gomti river basin of India. *Current Science*, 115(4): 721-728.
- Manibhushan 2018. Spatial database management system for standing water resources using relational properties. *International Journal of Tropical Agriculture*, 36(4): 1081-1089.
- Maurya S, Eram RE, Naik SK, Choudhary JS, and Kumar S. 2019. Heavy metals scavenging potential of *Trichoderma asperellum* and *Hypocrea nigricans* isolated from acid soil of Jharkhand. *Indian Journal of Microbiology*, 59(1): 27-38.
- Meena VS, Mondal T, Pandey BM, Mukherjee A, Yadav RP, Choudhary M, Singh S, Bisht, JK and Pattanayak A. 2018. Land use changes: Strategies to improve soil carbon and nitrogen storage pattern in the mid-Himalaya ecosystem, India, *Geoderma*, 321: 69-78.
- Meena AS, Kumari R, Jyotsana B, Kumar R, Prince LLL, Kumar Vijay and Kumar S. 2018. Absence of over dominance phenotype of callipyge gene in Indian sheep. *Indian Journal of Animal Sciences*, 88(4): 504-505.
- Moanaro and Choudhary JS. 2018. Seasonal incidence of major sucking pests complex of Capsicum in relation to weather parameters in Eastern Plateau and Hill region of India. *Journal of Entomology and Zoology Studies*, 6(2): 270-273.
- Mondal S, Das A, Pradhan S, Tomar RK, Behera UK, Sharma AR and Chakraborty D. 2018. Impact of tillage and residue management on water and thermal regimes of a sandy loam soil under pigeonpea-wheat cropping system. *Journal of the Indian Society of Soil Science*. 66(1): 40-52.
- Mondal S, Das TK, Thomas P, Mishra AK, Bandyopadhyay KK, Aggarwal P and Chakraborty D. 2019. Effect of conservation agriculture on soil hydro-physical properties, total and particulate organic carbon and root morphology in wheat (*Triticum aestivum*) under rice (*Oryza sativa*)-wheat system. *Indian Journal of Agricultural Sciences*, 89(1), 46-55.
- Monobrullah Md, Rahman A and Kumar R. 2018. Solar energy groundwater pumping: A case study in East Champaran, Bihar. *Multilogic in Science*, Vol. VIII, Issue Special (C): 175-177.

- Mukherjee A, Joshi K, Pal RS, Atheequlla GA, Roy ML and Chandra N. 2018. Scientific health benefits of Namakeen Chai /Jya (salted tea): A traditional tea beverage of Bhotiya tribal community in higher altitudes of Uttarakhand. *Indian Journal of Traditional Knowledge*, 17(2): 365-369.
- Mukherjee A, Mondal T, Bisht JK and Pattanayak A. 2018. Farmers' preference of fodder trees in mid hills of Uttarakhand: a comprehensive ranking using analytical hierarchy process. *Range Management & Agroforestry*, 39(1): 115-120.
- Mukherjee A, Singh P, Ray M, Satyapriya and Burman RR. 2018. Enhancing farmers income through farmers' producers companies in India: Status and roadmap. *Indian Journal of Agricultural Sciences*, 88(8): 1151-61.
- Mukherjee A, Singh P, Ray M, Satyapriya, Rakshit S. and Burman RR. 2018. Development and standardization of scale to measure farmers attitude towards farmers producer company. *Indian Journal of Extension Education*, 54(4): 84-90.
- Naik SK and Das DK. 2019. Changes in zinc concentration as influenced by sesquioxide under different moisture regime in acidic rice soils of eastern India. *National Academy Science Letters*. DOI: 10.1007/s40009-018-0773-4
- Neelam T, Veena S, Jeny KJ, Menaka S, Ray PK, Rahul SA, Tareni D and Saikumar G. 2018. Whole genome sequencing of classical swine fever virus circulating in India and analysis of antigenic relation with C-strain and Hciv/India. *Journal of Experimental Biology and Agricultural Sciences*, 6(3): 509-515.
- Neelam T, Veena S, Jeny KJ, Menaka S, Ray PK, Rahul SA, Tareni D and Saikumar G. 2018. Complete genome sequence of a field isolate of Classical Swine Fever virus belonging to subgenotype 2.2 from India. *Genome Announcements*, 6(24): e00288-18.
- Nishad J, Koley TK, Varghese E and Kaur C. 2018. Synergistic effects of nutmeg and citrus peel extracts in imparting oxidative stability in meat balls. *Food Research International*, 106: 1026-1036.
- Pan RS and Singh AK. 2018. Stability of yield and its components in vegetable amaranth. *Indian Journal of Horticulture*, 75(2): 337-340.
- Raghav DK, Anuranjan and Singh AK. 2018. Training need of agro-input dealers in Ramgarh district of north Chotanagpur region in Jharkhand. *Indian Journal of Entomology*, 80(4): 1370-1375.
- Roy ML, Mukherjee A, Chandra N, Jethi R and Kharbikar HL. 2018. Information and communication technology for dissemination of agricultural information in Hills: A critical overview. *Indian Journal of Extension Education*, 54(3): 19-25.
- Sandhu N, Dixit S, Swamy BPM, Rman A, Kumar Santosh, Singh SP, Yadav RB, Singh ON, Reddy JN, Anandan A, Yadav S, Venketeshwarlu C, Henry A, Verulkar S, Mandal NP, Ram T, Badri J, Vikram P and Kumar A. 2019. Marker assisted breeding to develop multiple stress tolerant varieties for flood and drought prone areas. *Rice*, (<https://doi.org/10.1186/s12284-019-0269-y>)
- Sarkar PK, Kumar PR, Singh AK and Bhatt BP. 2018. Effect of priming treatments on seed germination and seedling growth in bamboo [*Dendrocalamus strictus* (Roxb.) Nees]. *Acta Ecologica Sinica*. <https://doi.org/10.1016/j.chnaes.2018.11.004>.
- Sarma K, Dey A, Kumar S, Mondal S, Kumar T and Naik SK. 2019. Chemical characteristics and mineral status of soil and water in the fish ponds of Bihar, India. *Journal of Experimental Zoology India*, 22(1): 511-517.
- Sarma Kamal, Rahman A, and Dey A. 2018. Impact of solar operated aerator on dissolved oxygen and fish growth. *Journal of Experimental Zoology India*, 22(1): 1041-1046.
- Saurabh K, Kanchikeri Math M, Datta SC, Thekkumpurath AS and Kumar R. 2019. Nanoclay polymer composites loaded with urea and nitrification inhibitors for controlling nitrification in soil. *Archives of Agronomy and Soil Science*, 65(4): 478-491.
- Saxena KB, Choudhary AK, Srivastava RK, Bohra A, Saxena RK and Varshney RK. 2019. Origin of early maturing pigeonpea germplasm and its impact on adaptation and cropping systems. *Plant Breeding* (<https://doi.org/10.1111/pbr.12696>).

- Saxena KB, Choudhary AK, Saxena RK and Varshney RK. 2018. Breeding Pigeonpea cultivars for intercropping - synthesis and strategies. *Breeding Science* 68(2): 159-167.
- Seth T, Mishra GP, Singh B, Kashyap S, Mishra SK, Tiwari SK and Singh PM. 2018. Optimization of quality DNA isolation protocol from various mucilage rich cultivated and wild *Abelmoschus* sp. and its validation through PCR amplification. *Vegetable Science* 45(1): 1-6.
- Shubha K and Singh D. 2018. Selection of yield-associated morphological and biochemical traits using correlation and path coefficient analysis in Potato (*Solanum tuberosum* L.) in the Foothills of North-Western Himalayas. *Potato Research*: 1-9.
- Shubha K, and Singh D. 2018. Selection of Yield-Associated Morphological and Biochemical Traits Using Correlation and Path Coefficient Analysis in Potato (*Solanum tuberosum* L.) in the Foothills of North-Western Himalayas. *Potato Research* 61(3): 273-281.
- Singh A, Singh Y, Singh R, Upadhyay PK, Kumar Rakesh and Singh RK. 2019. Effect of cultivars and weed management practices on weeds, productivity and profitability in zero-till direct-seeded rice (*Oryza sativa*). *Indian Journal of Agricultural Sciences* 89 (2): 353-359.
- Singh Rajiv, Tiwari P, Singh Mandhata, Kumar R, Deokaran and Singh RP. 2018. Effect of different levels of bio-fertilizers and plant growth regulators on growth attribute and protein content of mungbean under custard apple based agri-horti system. *Journal of Krishi Vigyan* 6(2): 56-60.
- Singh AK, Pan, RS and Bhavana P. 2018. Combining ability and gene action studies in brinjal (*Solanum melongena* L.). *Vegetable Science*, 45(1): 27-30.
- Singh BK, Koley TK, Maurya A, Singh PM and Singh B. 2018. Phytochemical and antioxidative potential of orange, red, yellow, rainbow and black coloured tropical carrots (*Daucus carota* subsp. *sativus* Schubl. & Martens). *Physiology and Molecular Biology of Plants*, 24(5): 899-907.
- Singh CV, Ranjan R, Shekhar S, Singh AK, Jaiswal AK and Pan RS. 2018. Socio-economic Status and Attitude of Farmers of Santhal Pargana Division of Jharkhand, Eastern India-A Benchmark Analysis. *Asian Journal of Agricultural Extension, Economics & Sociology*, 22(2): 1-6.
- Singh DK and Pandey NK. 2018. Human resource development for quality potato production and post-harvest management: An evaluation. *Indian Journal of Extension Education*, 54(1): 54-58.
- Singh DK, Pandey NK, Kharumnuid P. 2018. An economic analysis of marketing of potato from Shimla hills of Himachal Pradesh. *Economic Affairs* 63(2): 419-424.
- Singh DK, Pandey NK, Kharumnuid P and Rana RK. 2018. Adoption pattern and economic impact of potato variety Kufri Khyati in Uttar Pradesh, *Journal of AgriSearch*. 5(3): 211-214.
- Singh DK, Singh IS, Kumar Ujjwal, Kumar Abhay and Bhatt BP. 2018. Traditional wisdom of Mallah community regarding makhana production and processing in North Bihar. *Indian Journal of Extension Education*, 54(2): 76-82.
- Singh M, Dubey RK, Koley TK, Maurya A, Singh PM and Singh B. 2019. Valorization of winged bean (*Psophocarpus tetragonolobus* (L) DC) by evaluation of its antioxidant activity through chemometric analysis. *South African Journal of Botany* 121: 114-120.
- Sinha MK, Thombare NK, Mondal B, Meena MS and Kumar Pankaj. 2018. Analysis of foot and mouth disease in dairy animals: an assessment of cost and loss from sample farmers. *Indian Journal of Animal Research*, 52(5): 754-757.
- Sinha PK, Singh R, Yadav VK. 2018. Socio-economic impact of baby corn cultivation in Haryana, *Journal of Community Mobilization and Sustainable Development*, 13(2): 331-335.
- Srivastava K, Choudhary JS, Patel RK, Reddy PVR and Nath V. 2018. Identification and phylogenetic analysis of fruit borer species of litchi using DNA barcode sequences. *Indian Journal of Horticulture*. 75(3): 415-422.
- Srivastava SK and Jeet P. 2018. Effect of drip irrigation and plastic mulch on growth and seed yield of *Flemingia strobilata*. *Multilogic in Science*, 8(B): 397-398.

- Sundaram PK, Mari I, Lande SD and Parray RA. 2019. Evaluation of Urea Ammonium Nitrate application on the performance of wheat. *International Journal of Current Microbiology and Applied Science*. 8(1): 1956-1963.
- Tamta M, Kiran R, Shukla A and Nain AS. 2018. Does geometry of crop affect thermal requirement of mustard crop: an analysis of Indian mustard. *Mausam*, 69(4): 630-634.
- Thomas P, Meena MC, Aggarwal BK, Ram S, Mondal S, Mishra AK and Chakraborty D. 2018. Strength and stability of aggregates as the key indicators for evaluating soil physical conditions. *Journal of the Indian Society of Soil Science*, 66(2): 268-274.
- Yadav RK, Kumawat N, Singh A, Tomar IS, Singh M, Morya J, Kumar Rakesh and Upadhyay PK. 2018. Bio-efficacy of new herbicides on weed dynamics, productivity and nutrient uptake in maize (*Zea mays*) under rainfed condition of Jhabua hills. *Indian Journal of Agricultural Sciences* 88(7): 1123-1128.
- Yadav S, Sandhu N, Majumdar RR, Dixit S, Kumar Santosh, Singh SP, Mandal NP, Das SP, Yadav, RB, Singh VK, Sinha P, Varshney RK and Kumar A. 2019. Epistatic interactions of major effect drought QTLs with genetic background loci determine grain yield of rice under drought stress. *Scientific Reports*. 9: 2616 (<https://doi.org/10.1038/s41598-019-39084-7>).
- Yadav VK, Kumar N, Kumari N, Bhatt BP, Kumar U and Kumar Abhay. 2018. A test to measure knowledge level of people about Agricultural Biotechnology. *Multilogic in Science*. 8 [Special (C)]: 134-137.
- Yadav VK, Kumar Nirmal, Padaria RN, Kumari Neetu and Jha GK. 2018. Development of scale to measure attitude of people about Agricultural Biotechnology, *Indian Journal of Extension Education*, 54(2): 236-240.
- Yadav, RK, Kumawat N, Singh A, Tomar IS, Singh M, Morya J, Kumar Rakesh and Upadhyay PK. 2018. Bio-efficacy of new herbicides on weed dynamics, productivity and nutrient uptake in maize (*Zea mays*) under rainfed condition of Jhabua hills. *Indian Journal of Agricultural Sciences*. 88(7):1123-1128.