INDEX POSTER PRESENTATION

POSTER PRESENTATION

Theme Area I: Environment in relation to Sustainable Agriculture and Water Conservation
Theme Area II: Stress Adaptation and Crop Improvement

| Abstract Number | Abstract Title | Page Number |
|--------------------|--|----------------|
| P-1 | Processing of rice bran for human consumption Darshana Baruah, Tankeswar Nath, Borsha Neog, Manas Jyoti Barooah and Priyanka Das | 89 |
| P-2 | Bio-chemical quality analysis of mulberry tea and value added mulberry green tea Madhusmita Baruah, Rashmi Kalita, Gautam Kumar Saikia and Priyanka Das | 89 |
| P-3 | To evaluate the relationship between nutritional value and shelf life of the multigrain dalia with its cooking quality Mamta Rathore, Dipak Kumar, C.L.Maurya, Nand Kumar and H.G. Prakash | 90 |
| P-4 | Comprehensive nutritional profiling of chickpea crops using chemical analysis methods Shakti Singh, Nand Kumar and Bal Veer Singh | 90 |
| P-5 | Evaluation of physio-chemical characteristics of branded and unbranded rice varieties <u>Dipak Kumar</u> and Nand Kumar | 91 |
| P-6 | Effect of zinc, boron and molybdenum on growth and yield character of Mung Bean (Vigna radiata L.) Rishabh Kumar Singh, C L Maurya and Harshit Gupta | 91 |
| P-7 | Assam's dolichos bean seeds' nutritional and antinutrient makeup Vaishnavi G Wuike, <u>Meghna Choudhury</u> , Bandana Choudhury, Surojit Sen and Sunayana Rathi ¹ | 92 |
| P-8 | Deciphering the role of heat shock factor in tomato root development Anjana Kumari, Adity Majee and Vidhu A. Sane | 92 |
| P-9 | Antibacterial activity of seed and leaf extract of Carica papaya Neha Raj | 93 |
| P-10 | Antagonism and hyphal relationship between <i>Trichoderma</i> sp. and <i>Fusarium</i> wilt diseases in chilli Shenu Sankhwar and Archana Srivastava | 93 |
| P-11 | Enhancement of sports and athletes performance with the contribution of modern biological science Vishwa Jeet Singh Yadav | 93 |
| P-12 | Allelopathic potential of stem aqueous extract of Gnaphalium pensylvanicum willd. against Vicia faba Roth and Millilotus officinalis and cytological changes in Allium cepa L. Nazish Akhtar, Mo Shadab, Norin Bhatti and M.B. Siddiqui | 94 |
| P-13 | Regulating arsenic uptake in rice (<i>Oryza sativa</i> L.) through CRISPR/Cas9 based genome editing Puja Singh and Debasis Chakrabarty | 94 |
| P-14 | SIMYBHTH governs lateral root growth by coordinating cross-talk between auxin and ethylene signaling during root development in tomato Pooja Patwal, Vinod Kumar, Aniruddha P. Sane and Vidhu A. Sane | 95 |

| P-15 | Functional studies of the RbWRKY70 promoter involved in petal abscission in rose (Rosa bourboniana) Laxmipriya Pradhan, Shiv Kumar Maurya, Priya Singh, and Aniruddha P. Sane | 95 |
|------|---|-----|
| P-16 | Characterization of strong early-acting wound-inducible promoters for insect resistance in chickpea Sheeva Khan and Aniruddha P. Sane | 96 |
| P-17 | Interactions among SLERF36, HDACS and co-repressors regulate developmental transitions in tomato Hrishikesh Mahato, Rashmi Garg and Aniruddha P. Sane | 96 |
| P-18 | Manipulation of SIMYB53 alters shoot branching and primary root development in tomato Babythoithoi Sairem, Vinod Kumar, Vidhu A. Sane and Aniruddha P. Sane | 97 |
| P-19 | Tomato WRKY75 negatively regulates plant growth by suppressing GA biosynthesis Pratima Debnath, Deepika Singh, Aniruddha P. Sane and Vidhu A. Sane | 97 |
| P-20 | Manipulation of SIERF8 alters the fruit set and ripening pattern in tomato Upasana Choudhury and Aniruddha P. Sane | 98 |
| P-21 | Optimizing sugarcane growth through phytohormone-induced in vitro culture of mature nodal segments Anam, Kusum Yadav, Pushpa Singh, Ranjana Gautam and Ankita Gupta | 98 |
| P-22 | Understanding the role of SIDELLA in SIERF36-mediated organ expansion in tomato Himani Vaishnav, Hrishikesh Mahato, Rashmi Garg, Upasana Choudhury and Aniruddha P. Sane | 99 |
| P-23 | Impact of elevated CO ₂ , O ₃ and temperature on wheat varieties Sharfa Naaz, Mohammad Israil Ansari and Vivek Pandey | 99 |
| P-24 | Selenium and silica supplementation improve the growth, yield and nutrient quality of grain by reducing arsenic accumulation in rice (<i>Oryza sativa L.</i>) <u>Vishnu Kumar</u> , Sarvesh Kumar, Ruchi Agnihotri, Pragya Sharma, Sanjay Dwivedi, Rajveer Singh Chauhan, Soumit K. Behera and Vivek Pandey | 100 |
| P-25 | Effect of elevated temperature and soil arsenic on yield and nutrient quality of rice (Oryza sativa L.) Sarvesh Kumar, Vishnu Kumar, Ruchi Agnihotri, Pragya Sharma, Rajesh Kumar Tiwari, Soumit K. Behera, Sanjay Dwivedi and Vivek Pandey | 100 |
| P-26 | Medicinal plants and their status in Pilibhit Tiger Reserve, Uttar Pradesh Pratibha, Priyanshi Singh, Aanchal verma and Alka kumari | 101 |
| P-27 | Phytoremediation of the sugar mill effluents and polluted water bodies Priyanshi Singh, Pratibha, Aanchal Verma andAlka Kumari | 101 |
| P-28 | Efficacy of synthetic organic ligands on functional iron status of wheat (<i>Triticum aestivum</i>) plants Roshani Gupta, Vijay Kumar, Nikita Verma and Rajesh K. Tewari | 102 |
| P-29 | Morphology and oxidative physiology of zinc-deficient rice (<i>Oryza sativa</i>) plants <u>Vijay Kumar</u> , Roshani Gupta, Nikita Verma and Rajesh K. Tewari | 102 |

| P-30 | Pesticides-induced pollution and their mitigation Atul Kumar Anand, Vineet Kumar Singh and Alka Kumari | 102 |
|------|---|-----|
| P-31 | Seasonal assessment of physico-chemical parameters of water-bodies in Nawabganj Bird Sanctuary Aanchal Verma, Priyanshi Singh, Pratibha and Alka Kumari | 103 |
| P-32 | Adaptive modulations in Cyanobacteria upon nutrient stress Surbhi Kharwar | 103 |
| P-33 | Biochemical appraisal of different plant parts of Bt and non-Bt cotton genotypes S.R. Gamit, P.R. Marakana and H.R. Ramani | 104 |
| P-34 | Seed nano-priming for sustainable agriculture <u>T. N. Gajera</u> , V. N. Mehta and V. S. Prajapati | 104 |
| P-35 | Study on Fusarium sp. interaction with pigeon pea and screening of its bio-control agents Ruby Fatma, Ratna Katiyar and Suchi Srivastava | 105 |
| P-36 | Biochemical and molecular evaluation of sapota varieties under South Gujarat condition Ankita Chakote, Diwakar Singh, Kiran Suthar and Avnish Pandey | 106 |
| P-37 | Development of drought tolerance high yielding wheat lines through induced mutagenesis Ritu Rani, Akash Tomar, Vaishali, R.S. Sengar and Manoj K. Yadav | 107 |
| P-38 | Isolation and biological activity of terpenes from essential oils Manish Arya, Santosh Kumar Singh | 108 |
| P-39 | Effect of sucrose concentration in-vitro for rapid multiplication of Gerbera jamisonii Shyam Ji Mishra, Arnav Yadav, Ravi Kant Pandey and Chhedi Lal Verma | 108 |
| P-40 | Clonal variation in carbon storage and carbon dioxide sequestration in mature phase of rubber plantation and agroforestry system Haritha, C., Jayasree Gopalakrishnan, Sreelatha S., K. Annamalainathan and Jessy M.D. | 109 |
| P-41 | Understanding the role of water stress-induced reactive oxygen species generation in xylogenesis in poplar plants Nikita Verma and Rajesh Kumar Tewari | 109 |
| P-42 | Effect of fertilizer and spacing on biochemical attributes in tannia (Xanthosoma sagittifolium) Patel Jimmi, Gaurish Choudhury, Nilima Karmakar and Patel Himani | 110 |
| P-43 | Biochemical and nutritional evaluation of chickpea (Cicer arietinum L.) at different sprouting conditions Madastu Saikrishna, N.J. Patel and J. J. Dhruve | 111 |
| P-44 | Comprehensive nutritional profiling of chickpea crops using chemical analysis methods Shakti Singh, C. L. Maurya and Bal veer Singh | 112 |
| P-45 | Characterization of <i>Rhizobium</i> strains from wild legumes for their cross-infectivity to <i>Vigna radiata</i> L. Akhand Pratap Singh, Nisha Negi, Sugandha Tiwari, Suchi Srivastava | 112 |

| P-46 | Screening of lichen and their secondary metabolites against plant pathogenic bacteria and fungi Praphool Kumar, Sanjeeva Nayaka, Tuhina Verma, Pradeep Kumar, Narender Tadigoppula and Dalip Kumar Upreti | 113 |
|------|---|-----|
| P-47 | Biochemical and molecular characterization of plant growth promoting rhizobacteria inducing systemic antiviral resistance against plant viruses Ashish Kumar Gupta, Jyoti Verma and Shalini Srivastava | 113 |
| P-48 | Cultural and morphological characterization of <i>Purpureocillium</i> sp. Paladiya Sharadkumar H, Prashant B. Sandipan, and Nirva Patel | 114 |
| P-49 | Growth and effect of <i>Purpureocillium</i> sp. on different media Paladiya Sharadkumar H, Prashant B. Sandipan, and Nirva Patel | 114 |
| P-50 | Genome-wide analysis identification and functional characterization of laccase gene family in <i>Artemisia annua</i> Sabitri Kumari, Nidhi Rai, Sneha Singh, Pajeb Saha and Shashi Pandey-Rai | 115 |
| P-51 | Potential role of seed priming in mitigating heat and drought stress responses in pulses Sudarshana Ranjan, S K Verma, S K Guru and Gurdeep Bains | 115 |
| P-52 | Potential role of terrace farming to reduce soil erosion Shika, Sudarshana Ranjan, Gurdeep Bains | 116 |
| P-53 | Impacts of nematode-infected plants on human health: A comprehensive analysis S.S. Mohanty | 116 |
| P-54 | Overexpression of Brassinosteroid biosynthetic gene (cyp450) increases abiotic stress tolerance in chickpea (Cicer arietinum L.) <u>Uma Gupta</u> and Indraneel Sanyal | 117 |
| P-55 | Intervention of microbial enzymes in paper industries Supriya Gupta and Dinesh Yadav | 117 |
| P-56 | Ameliorative response of indole-3-acetic acid under ferulic acid stress exposed to Solanum lycopersicum L. seedlings Niharika and N.B. Singh | 118 |
| P-57 | Potential of fungi in promoting sustainable agriculture and food security: An overview Kanchan Yadav and Dinesh Yadav | 118 |
| P-58 | Melissopalynological analysis and its implications on sustainable development Sneh Trivedi, Alka Srivastava and S.K. Basumatary | 119 |
| P-59 | Bioinformatics intervention in crop improvement: An update Varsha Rani, Rajesh Singh, and Dinesh Yadav | 119 |
| P-60 | Extraction of gibberellin from a natural source and it's shelf-life enhancement activity CY. Aditi, Monisha Prashant, Thriveni Vasanthkumar | 120 |
| P-61 | Plant tissue culture approaches in relation to crop improvement Prabhat Kumar Singh, Rahul Kumar Maurya, Vandna Kushwaha, Ashish Kumar, Shambhoo Prasad | 120 |

| P-62 | Control and prevention of infectious disease of fish Bharti Gupta and Ramakant Maurya | 121 |
|------|---|-----|
| P-63 | Enhancing drought tolerance in chickpea by overexpression of the glutaredoxin (grx) gene Varun Kumar and Indraneel Sanyal | 121 |
| P-64 | Development of high-frequency in vitro regeneration system in Indian lotus (Nelumbo nucifera Gaertn.) Rita Verma, Rajan Kumar Gupta, Indraneel Sanyal | 122 |
| P-65 | New approaches and modern techniques for crop improvement Rahul Kumar Maurya, Prabhat Kumar Singh, Vandna Kushwaha, Niyaz Ahmad and D.K. Dwivedi | 122 |
| P-66 | Effect of weed management on growth yield of green gram Bushra, S.K. Guru, Gurdeep Bains, Deepti Shankhdhar and B.R. Singh | 123 |
| P-67 | Assessing the adaptation of the trees in the degraded ecosystem for potential towards urban forestry: An ecological profiling approach Vivek Verma and Sheikh Adil Edrisi | 123 |
| P-68 | The evaluation of varietal trial with processing clones at different days of potato (Solanum tuberosum L.) A.K. Yadav, R.B. Singh, R.K. Pal, Ashutosh Upadhyay and Suraj Katiyar | 124 |
| P-69 | The impact of fungicide application for the management of late blight on potato (Solanum tuberosum L.) A.K. Yadav, R.K. Pal, R.B.Singh, Suraj Katiyar and Ashutosh Upadhyay | 124 |
| P-70 | Antioxidant defense and generation of reactive oxygen species in plants under abiotic stress conditions S.N. Pandey and Murtaza Abid | 125 |
| P-71 | Fungal-pectinases mediated approaches for processing of fruit juices Shruti Dwivedi, Rishika Yadav, Ruhina Naz, Km. Arati, Ankur Singh and Dinesh Yadav | 125 |
| P-72 | Role of phytofabricated gold nanoparticles for enhancing sustainable Spinacia oleracea L. production Mohammad Amir, Abdul Raheem, Pushpanjali Yadav, Mohammad Israil Ansari | 126 |
| P-73 | Investigation and evaluation of ornamental ferns of Uttar Pradesh, India Rahul Kumar, Ratna Katiyar and Ajit Pratap Singh | 126 |
| P-74 | Comparative evaluation of phytochemical profile and nematicidal activity of aeri and root part extracts of <i>Hedychium flavescent</i> <u>Himani</u> , Ravendra Kumar, Om Prakash and Satya Kumar | 127 |
| P-75 | Investigating retention of bioactive compounds in immature dropped kinnow fruit through pre-treatment and drying temperature modulation D. Mridula, R.K. Vishwakarma, Simran Arora, Santosha Rathod, Harsh Panwar, Manju Bala, and Shivani | 127 |
| P-76 | Phytochemical screening and nematicidal efficacy of essential oils from leaves of Elsholtzia fruticose Tanuja Kabdal, Om Prakash, Ravendra Kumar | 128 |

| P-77 | Antifungal efficacy of basil essential oil against leaf spot disease of lemongrass (Cymbopogon flexuosus Nees ex Steud.) Himanshu Yadav, Ramesh Kumar Srivastava and Amritesh Chandra Shukla | 128 |
|------|---|-----|
| P-78 | A robust <i>in-vitro</i> protocol for shoot multiplication of disease-free and genetically uniform plantlets of sugarcane variety COLK 11206 using shoot-tip meristem Sanjiv Gupta, Nalini Pandey and Sanjeev Kumar | 129 |
| P-79 | Post-harvest management and food processing in agriculture Prabhas Kumar Shukla and Ananya Tiwari | 130 |
| P-80 | NRT-1/ PTR transporter gene-bridging the gap between the uptake and NUE in wheat under multiple stresses Mallesh Gampa, Nandini G.A., Abhishek Chitranshi, Suneha Goswami, Vinutha T., Sudhir Kumar, Jasdeep C Padaria, Aruna Tyagi and Ranjeet R. Kumar | 130 |
| P-81 | Ozone phytotoxicity in plants: A menace for crops and natural vegetation Aditya Abha Singh | 131 |
| P-82 | Essential oil estimation and quality evaluation of Aegle marmelos leaves offered in various places of worship Priyanka Singh Ramesh Kumar Srivastava and Anuj Garg | 132 |
| P-83 | Abiotic and biotic stresses in the plants Ananya Tiwari and Prabhas Shukla | 132 |
| P-84 | Nutritional and molecular evaluation of millets Vaja Hetal, Vaibhav Kumar, N. Mehta and Ajay N. Narwade | 133 |
| P-85 | Nutritional profiling of black rice variety <i>Upendra</i> Sanjay Kumar Chetia, Sunayana Rathi, <u>Bandana Choudhury</u> , Meghna Choudhury, Janardan Das | 133 |
| P-86 | Sequel of salinity stress against morphological and physiological specifications in Vigna radiata L. (Wilczek) Afreen Naaz, Swati Singh, Rahul Verma and Amit Kumar Singh | 134 |
| P-87 | A study of physiological and biochemical responses of Cymbopogon martinii in fly ash-amended soil Vippan Kaur, Archana Dwivedi, Akanksha Dubey, Akanksha Singh, Poornima Vajpayee | 134 |
| P-88 | Effect of climate change on menstruation Maitri Bajpai and Anil Kumar | 135 |
| P-89 | Exploring the allelopathic potential of Fumaria indica (Hausskn.) Pugsley: A study utilizing root aqueous extracts, rhizosphere soil, and amended soil Mo Shadab, Nazish Akhtar, Nourien Bhatti and M.B. Siddiqui. | 136 |
| P-90 | In-Vitro and in-silico investigation of Mentha Spicata essential oil against leaf spot disease caused by Colletotrichum siamense in Turmeric Ramanand Yadav, Harshita Gaurav, Divyanshu Yadav, Amritesh Chandra Shukla | 136 |
| P-91 | Zinc and iron management in alluvial soil on some biochemical responses of tomato Samridhi Malviya and S.N. Pandey | 137 |
| P-92 | Effect of heterospecific semiochemicals on the reproductive attributes and biochemical aspects of <i>Zygogramma bicolorata</i> (Coleoptera: Chrysomelidae) <u>Priyanka Yadav</u> and Bhupendra Kumar | 137 |