Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Conference on
Agricultural & Horticultural Sciences

February 03-05, 2014 Radisson Blu Plaza Hotel, Hyderabad, India



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OMICS Group Conferences
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Day 1 February 03, 2014

09:00-10:00 Registrations

Azure 1 & 2

OMICS Group Conferences
Accelerating Scientific Discovery

10:00-10:20 **Opening Ceremony**

Keynote Forum

10:20-10:30 **Introduction**

10:30-10:50 **Alluri Padma Raju**
Acharya N. G. Ranga University, India

10:50-11:10 **Mohan Kanda**
Former Chief Secretary of Andhra Pradesh, India

Coffee Break 11:10-11:20

11:20-12:20 **E. A. Siddiq**
Acharya N. G. Ranga University, India

12:20-12:40 **John Ryan**
International Center for Agricultural Research in the Dry Areas, Syria

12:40-13:00 **Shiv Kant Shukla**
Biotech Consortium India Limited (BCIL). India

Lunch Break 13:00-14:00

Workshop 14:00-15:00

***In vitro* propagation using bioreactors and clonal fidelity of micropropagated plants**

14:00-14:15 Title: *In vitro* and molecular techniques to propagate Berry crops
Samir C. Debnath, Agriculture and Agri-Food Canada, Canada

14:15-14:30 Title: Detection of adulteration/substitution of herbs-A quality control perspective for herbal Industries
C. Gururaj, The Himalaya Drug Company, India

Panel Discussion 14:30-15:00

Track 2: Spices, Herbs and Medicinal Plants

Session Chair: Irfan Ali Khan, Nawab Shah Alam Khan Centre for Post Graduate Studies and Research, India
Session Co-Chair: Aniefiok Ndubuisi, University of Calabar, Nigeria

Session Introduction

15:00-15:15 Title: The Biology, utilization and phytochemical composition of the fruits and leaves of *Gongronema latifolium* Benth
Aniefiok Ndubuisi, University of Calabar, Nigeria

15:15-15:30 Title: Assessment of protective antioxidant mechanisms in some ethno medicinally important wild edible fruits of Odisha, India
Uday Chand Basak, Regional Plant Resource Centre, India

15:30-15:45 Title: Effect of inorganic and biofertilizer on growth, and yield of Garlic (*Allium sativum* L.)
Jitesh Kumar Hore, Bidhan Chandra Krishi Viswavidyalaya, India

Coffee Break 15:45-16:00

16:00-16:15 Title: Standardization of suitable invigouration treatment for seed quality enhancement in Davana (*Artemisia pallens* Wall.ex.D.C)
M. Jayanthi, Tamil Nadu Agricultural University, India

16:15-16:30 Title: Genetic variability for yield components of Chilli
Dipak K Murmu, Bidhan Chandra Krishi Viswavidyalaya, India

16:30-16:45 Title: Effect of different plant densities on leaf and gel yield of *Aloe barbadensis*
T. Susila, Dr. Y. S. R. Horticultural University, India

16:45-17:00 Title: Effect of date of sowing and nitrogen on growth and yield of Isabgol (*Plantago ovata*)
G. Satyanarayana Reddy, Dr. Y. S. R. Horticultural University, India

17:00-17:15 Title: Economic viability of medicinal plants cultivation in tree based intercropping systems under dryland conditions
A Madhavi Lata, Acharya N. G. Ranga Agricultural University, India

17:15-17:30 Title: Ethnomedicines and vegetational pattern of Atmakur forest division of Andhra Pradesh: Strategy for conserving biodiversity of medicinal plants
V. C. Gupta, A. P. Medicinal & Aromatic Plants Board, India

17:30-17:45 Title: Biostatistical methods and their application in analysis and interpretation of experimental data
Irfan Ali Khan, Nawab Shah Alam Khan Centre for Post Graduate Studies and Research, India

New York

Track 4: Crop Protection and Management

Session Chair: **Amitava Basu**, Bidhan Chandra Krishi Viswavidyalaya, India
Session Co-Chair: **Shashi Vemuri**, Acharya N. G. Ranga Agricultural University, India

Session Introduction

14:30-14:45	**Title: Variability in *Alternaria solani* causing frequent outbreak of Early blight disease being a major constraint in Potato production in the plains of West Bengal** **Amitava Basu**, Bidhan Chandra Krishi Viswavidyalaya, India
14:45-15:00	**Title: Sclerotinia stem rot: A threat to *Brassica* cultivation** **Pankaj Sharma**, Directorate of Rapeseed-Mustard Research (ICAR), India
15:00-15:15	**Title: Integrated pest management of Banana rust thrips, *Chaetanophothrips signipennis*** **Sushil Saxena**, Navsari Agricultural University, India
15:15-15:30	**Title: Evaluation of new molecules for management of stem borers on Sugarcane** **A Padmasri**, Acharya N. G. Ranga Agricultural University, India
15:30-15:45	**Title: Bio-efficacy of *Beauveria bassiana* (Balsamo) Vuillemin against *Helicoverpa armigera* (Hubner) infesting pigeonpea** **Mitul Karkar**, Junagadh Agricultural University, India

Coffee Break 15:45-16:00

16:00-16:15	**Title: Competitive interaction of *Tetranychus urticae* Koch and *Eotetranychus lewisi* (McGregor) (Acari: Tetranychidae) on castor bean and strawberry at different temperatures** **Paramjit Kaur**, Punjab Agricultural University, India
16:15-16:30	**Title: Adoption of IPM approach- an ideal module against thrips (*Thrips tabaci* Linderman) in Onion** **Pradyumna Tripathy**, Orissa University of Agriculture and Technology, India
16:30-16:45	**Title: Dissipation pattern of profenophos on Cabbage (*Brassica oleracea* var.capitata)** **Shashi Vemuri**, Acharya N. G. Ranga Agricultural University, India
16:45-17:00	**Title: Emergence pattern, reproductive biology and courtship behaviour of rice pink stem borer, *Sesamia inferens* (Walker) (Noctuidae: Lepidoptera)** **Sampathkumar Muthusamy**, Directorate of Rice Research, India
17:00-17:15	**Title: Field reaction of watermelon genotypes for resistance against Alternaria leaf blight disease under hot arid conditions of Rajasthan** **Sushil Maheshwari**, Central Institute for Arid Horticulture, India
17:15-17:30	**Title: Effect of mixing of salt in scraped lac during rainy season** **Mohammad Fahim Ansari**, Indian Institute of Natural Resins and Gums, India
17:30-17:45	**Title: Management of pests cabbage through trap cropping with Chinese Cabbage** **K. Sireesha**, Dr. Y. S. R. Horticultural University, India
17:45-18:00	**Title: Fluctuations in natural regulation of larvae of *Achaea janata* Linnaeus on castor by two hymenopteran larval parasitoids, *Snellenius maculipennis* (Szèpligeti), and Euplectrus** **Anitha Gorthi**, Acharya N. G. Ranga Agricultural University, India
18:00-18:15	**Title: Identifying sources of resistance in wild Rice (*Oryza rufipogon*) derivatives for Rice Tungro Virus** **D. Krishnaveni**, Directorate of Rice Research, India

Day 2 February 04, 2014

Azure 1

Track 5: Agronomy and Soil Sciences
Track 12: Agricultural Extension

Session Chair: **John Ryan**, International Center for Agricultural Research in the Dry Areas (ICARDA), Syria
Session Co-Chair: **V. Praveen Rao**, Acharya N. G. Ranga Agricultural University, India

Session Introduction

08:30-08:45	**Title: Exploitation of heterosis for various yield attributes in Rice (*Oryza sativa* L.) under coastal saline soils** **M. Sudha Rani**, Acharya N. G. Ranga Agricultural University, India
08:45-09:00	**Title: Soil fertility escalation and fertilizer phosphorus saving by consortium of *Burkholderia* species in context with sugar** **Shrikumar V. Mahamuni**, Shardabai Pawar Mahila College, India
09:00-09:15	**Title: Influence of organic and integrated crop management systems on crop productivity and soil fertility** **K. A. Gopinath**, Central Research Institute for Dry Land Agriculture (CRIDA), India
09:15-09:30	**Title: Suitability classification for different crops using GIS-A village level approach** **Pushpanjali**, Central Research Institute for Dry Land Agriculture (CRIDA), India
09:30-09:45	**Title: Marketing channels and margins of tropical leafy vegetable in south eastern Nigeria** **Ikechi Agbugba**, University of Fort Hare, South Africa
09:45-10:00	**Title: Environmental impacts of nutrient recycling and adaptation strategies for integrated nutrient management** **K. Jeevan Rao**, Acharya N. G. Ranga Agricultural University, India
10:00-10:15	**Title: Analysis of bacterial community structure and diversity in organic and inorganic soil by DGGE** **Malik Ahmed Pasha**, University of Agricultural Sciences, India
10:15-10:30	**Title: Runoff, soil-nutrients losses through runoff and crop productivity as influenced by crop covers in vertisols of central India** **R. K. Singh**, Indian Institute of Soil Science, India

Coffee Break 10:30-10:45

10:45-11:00	**Title: Sustainable rice production through system of rice intensification- long term experiences in rice-rice system** **R Mahender Kumar**, Directorate of Rice Research, India

11:00-11:15 **Title: Impact of tannery effluent irrigation on heavy metal build up in soil and ground water in Kanpur**
M L Dotaniya, Indian Institute of Soil Science, India

11:15-11:30 **Title: Agri-Nanotechnology-A conceptual revolution in agriculture and allied sciences**
T. N. V. K. V. Prasad, Acharya N. G. Ranga Agricultural University, India

11:30-11:45 **Title: Quantification of contribution of Azotobacter for reducing the requirement of nitrogen fertilizer in potato production in mid hills of Himachal Pradesh**
M K Jatav, Central Institute for Arid Horticulture, India

11:45-12:00 **Title: Aerobic rice-An alternative cultivation method for water constrained Rice environments**
B. Sreedevi, Directorate of Rice Research, India

12:00-12:15 **Title: Performance of *Bt* Cotton hybrids to plant population and soil types under rainfed condition**
Rajeshwar Malavath, Acharya N. G. Ranga Agricultural University, India

12:15-12:30 **Title: ICTs in Indian agriculture: A case study**
C. D. Autade, CCS Haryana Agricultural University, India

12:30-12:45 **Title: Agricultural based enterprise skills for women farmers: Suitable extension strategies**
Amtul Waris, Directorate of Rice Research, India

12:45-13:00 **Title: Plant response and adaptation to abiotic stress**
Sukiasyan Astghik, State Engineering University of Armenia (Polytechnic), Armenia

Lunch Break 13:00-13:45

13:45-14:00 **Title: Agronomic biofortification of zinc in basmati rice cultivars grown in soils of divergent characteristics**
V. Girija Veni, Central Research Institute for Dryland Agriculture (CRIDA), India

14:00-14:15 **Title: Evaluation of genotypic variation in Rice for nitrogen use efficiency under irrigated system**
K. Surekha, Directorate of Rice Research, India

Track 10: Sustainable Practices for Agriculture

Session Chair: Rakesh S. Chandran, West Virginia University, USA
Session Co-Chair: Dalbir Singh, Institute of Development Studies, India

Session Introduction

14:15-14:30 **Title: Chenopods-the answer to future food security**
Atul Bhargava, Amity University, India

14:30-14:45 **Title: A comparative study of GIS based NRCS-CN and artificial neural network techniques for rainfall-runoff modelling**
Mahesh K. Jat, Malaviya National Institute of Technology, India

14:45-15:00 **Title: Stabilization of organic carbon stock in biodegradable solid waste through vermiconversion**
Satya Sundar Bhattacharya, Tezpur University, India

15:00-15:15 **Title: Characterization of *Burkholderia spp.* strains capable of solubilizing both P and Zn**
Minakshi Grover, Central Research Institute for Dry Land Agriculture (CRIDA), India

15:15-15:30 **Title: Managing land and water resources for climate change adaptation and mitigation in arid agriculture**
Dalbir Singh, Institute of Development Studies, India

15:30-15:45 **Title: Fallacies' in studies of global warming vs agriculture**
S. Jeevananda Reddy, Andhra Pradesh Akademy of Sciences, India

Coffee Break 15:45-16:00

16:00-16:15 **Title: Rainwater harvesting and recycling for augmenting production under rainfed conditions in red soils of Central India**
Dev Narayan, Central Soil & Water Conservation Research & Training Institute, India

16:15-16:30 **Title: Rhizosphere microbial dynamics under organic verus inorganic fertilization in open field gerbera**
Rokolhuii Keditsu, Nagaland University, India

16:30-16:45 **Title: A constraints analysis of organic farming systems in Bagalkot district of Karnataka**
Vijayachandra Reddy, National Academy of Agricultural Research Management (NAARM), India

16:45-17:00 **Title: Influence of farm management practices on soil bacterial community structure and function**
Malik Ahmed Pasha, University of Agricultural Sciences, India

17:00-17:15 **Title: Analysis of the factors determining productivity in small-scale irrigation schemes. A Zimbabwean case study**
Langelihle Ndlovu, University of Venda, South Africa

17:15-17:30 **Title: Horticulture for natural resource conservation and sustainable rural livelihoods-An adaptation and mitigation strategy to combat climate change scenarios in Indian drylands**
N. Narayana Reddy, Central Research Institute for Dry Land Agriculture (CRIDA), India

17:30-17:45 **Title: Herbicide banding in *Zea mays* - A sustainable weed management practice?**
Rakesh S. Chandran, West Virginia University, USA

17:45-18:00 **Title: Wheat genetic resources and their exploitation for sustainable food security in India**
Sanjay Singh, Directorate of Wheat Research, India

18:00-18:15 **Title: Physiological effects of bioinoculant (Novobac) on growth and yield of vegetable Cowpea**
P. Jeyakumar, Tamil Nadu Agricultural University, India

18:15-18:30 **Title: Mitigating water stress for future climate change in Rice**
P. Senguttuvel, Directorate of Rice Research, India

Azure 2

Track 8: Agricultural Economics and Agribusiness

Session Chair: V C Pande, Central Soil & Water Conservation Research & Training Institute, India
Session Co-Chair: Phineas K Chauke, University of Venda, South Africa

Session Introduction

10:00-10:15 **Title: Physical and social factors in management of community owned water storage structures in Gujarat: An institutional analysis of local governance**
V C Pande, Central Soil & Water Conservation Research & Training Institute, India

10:15-10:30 **Title: Socio-economic study of informal sources of finance in aiding climate change adaptation among crop farmers in Enugu state, Nigeria**
Ikechi Agbugba, University of Nigeria, Nigeria

10:30-10:45 **Title: An assessment of survivalist enterprises: A case study of the Capricorn district municipality, South Africa**
Phineas K Chauke, University of Venda, South Africa

Coffee Break 10:45-11:00

11:00-11:15 **Title: Analysis of growth and instability in production of major rainfed crops in Andhra Pradesh**
Josily Samuel, Central Research Institute for Dry Land Agriculture (CRIDA), India

11:15-11:30 **Title: Determinants of access to farm credit by emerging farmers in rural South Africa**
Wilson Chivenge, University of Venda, South Africa

11:30-11:45 **Title: Impact of public expenditure on agricultural growth and food security: The case of South Africa**
Timothy Manyise, University of Venda, South Africa

11:45-12:00 **Title: Community approach in rural development: Changing paradigms**
Ruchi Singh, Nanaji Deshmukh Veterinary Science University, India

12:00-12:15 **Title: Effect of using distillers driad grains with solubles levels incorporated with or without enzyme on some productive performance of growing chicks**
Shaker. A. Abd El-Latif, Minia Unversity, Egypt

12:15-12:30 **Title: Yield gaps analysis of Sugarcane in Maharashtra (India)**
Tai Deokate, Mahatama Phule Krishi Vidyapeeth, India

12:30-12:45 **Title: Narrowing the yield gaps for profitable Rice production**
B. Nirmala, Directorate of Rice Research, India

Lunch Break 12:45-13:45

Track 7: Agricultural Engineering and Technology

Session Chair: Hifjur Raheman, Indian Institute of Technology Kharagpur, India
Session Co-Chair: Manoj Karkee, Washington State University, USA

Session Introduction

13:45-14:00 **Title: Performance and emissions of a bio-electricity generating system**
Hifjur Raheman, Indian Institute of Technology Kharagpur, India

14:00-14:15 **Title: Apple crop load estimation with over-the-row machine vision system**
Manoj Karkee, Washington State University, USA

14:15-14:30 **Title: Thermal activation of charcoal produced from pigeonpea stalk**
Sandip Gangil, Central Institute of Agricultural Engineering, India

14:30-14:45 **Title: Management of shoot borers in Sugarcane through integrated approach**
A Padmasri, Acharya N. G. Ranga Agricultural University, India

14:45-15:00 **Title: Soil moisture uptake under different salinity levels for paddy crop**
C. P. Devatha, National Institute of Technology Raipur, India

15:00-15:15 **Title: SARIMA model for generation and forecasting of Pomegranate (*Punica granatum* L.) Evapotranspiration of Solapur district of Maharashtra, India**
Deodas T. Meshram, National Research Centre on Pomegranate, India

15:15-15:30 **Title: Simultaneous blanching and drying of button Mushroom (*Agaricus Bisporus*) using microwave enhanced hot air heating system**
Ipsita Das, Indian Institute of Technology Bombay, India

15:30-15:45 **Title: Runoff estimation using modified SCS CN model coupled with GIS for Nethravathi river basin of India**
R. Rejani, Central Research Institute for Dryland Agriculture (CRIDA), India

Coffee Break 15:45-16:00

16:00-16:15 **Title: Almond quality as influenced by microwave treatment for disinfestations**
Harshala Patil, Indian Institute of Technology Bombay, India

16:15-16:30 **Title: Model parameterization using watershed geomorphology**
Dilip G. Durbude, National Institute of Hydrology, India

16:30-16:45 **Title: Banana fibre extraction: Problems and prospects for machine development**
Laxmikanta Nayak, National Institute of Research on Jute & Allied Fibre Technology, India

16:45-17:00 **Title: Evaluation and application of DSSAT- Rice model to irrigated ecosystem**
B. Sailaja, Directorate of Rice Research, India

Poster Presentations

10:50-11:50 Poster No. 001 - 020
12:00-13:00 Poster No. 021 - 040
14:00-15:00 Poster No. 041 - 060
16:00-17:00 Poster No. 061 - 080

Day 3 February 05, 2014

Azure 1

Track 9: Horticulture and Floriculture

Session Chair: Devi Prasad Juvvadi, Centre for Good Governance, India
Session Co-Chair: R. Nagarjuna Kumar, Central Research Institute for Dry Land Agriculture (CRIDA), India

Session Introduction

10:00-10:15 **Title: Evaluation of intergeneric hybrid progenies of papaya for PRSV tolerance and fruit quality**
C. Vasugi, Indian Institute of Horticultural Research, India

10:15-10:30 **Title: Pre-harvest fruit bagging: As eco-friendly approach for protection, colour, quality and reducing storage disorders in Apple**
R. R. Sharma, Indian Agricultural Research Institute, India

10:30-10:45 **Title: Value chain analysis of fresh vegetables in Medak district of Andhra Pradesh**
Devi Prasad Juvvadi, Centre for Good Governance, India

10:45-11:00 **Title: Fresh cut fruits and vegetables for ready to cook and eat**
Bhuvaneswari S, Indian Institute of Horticultural Research, India

11:00-11:15 **Title: Identification of Pomegranate Orchard using combination of image analysis techniques**
R. Nagarjuna Kumar, Central Research Institute for Dry Land Agriculture (CRIDA), India

11:15-11:30 **Title: Organic coatings as a short term intervention for extending shelf life of fruits / vegetables**
P C Sarkar, Indian Institute of Natural Resins & Gums, India

Coffee Break 11:30-11:45

11:45-12:00 **Title: Ornamental plants and their role in human psychology**
Varun Amingad, University of Horticultural Sciences, India

12:00-12:15 **Title: Influence of postharvest application of salicylic acid on ripening and quality of 'Santa Rosa' plums**
Swati Sharma, Indian Agricultural Research Institute, India

12:15-12:30 **Title: 1-MCP, a novel plant growth regulator for regulation of ripening**
Vijay Rakesh Reddy S, Indian Agricultural Research Institute, India

12:30-12:45 **Title: Genetic correlation studies in *Heliconia* genotypes**
Pavan Kumar P, Indian Agricultural Research Institute, India

12:45-13:00 **Title: Regeneration complexities of *Pinus gerardiana* in dry temperate forests of Indian Himalaya**
Raj Kumar, Central Soil & Water Conservation Research & Training Institute, India

Lunch Break 13:00-14:00

14:00-14:15 **Title: Factors affecting the activity of pollinating weevil, *Elaeidobius kamerunicus* Faust. in irrigated oil palm plantations**
L. Saravanan, Directorate of Oil Palm Research, India

14:15-14:30 **Title: Studies on effect of planting dates, maturity groups and temperature on curd yield under year round production system of Cauliflower (*Brassica oleracea* var botrytis L.) under mid hills of Himachal Pradesh**
Bhupinder Thakur, Dr. Y S Parmar University of Horticulture and Forestry, India

14:30-14:45 **Title: Morphological characterization of chrysanthemum genotypes based on qualitative traits**
P. LalithaKameswari, Dr. Y. S. R. Horticultural University, India

14:45-15:00 **Title: Trifloxystrobin induced changes in the postharvest behaviour of Tomato fruits**
P. Jeyakumar, Tamil Nadu Agricultural University, India

15:00-15:15 **Title: Abundance of major insect-pests of Indian bean in relation to major weather factors**
Sushil Saxena, Navsari Agricultural University, India

Track 3: Plant Biochemistry and Physiology

Session Chair: Anoop Kumar Shrivastava, National Research Centre for Citrus, India

Session Introduction

15:15-15:30 **Title: Nutrient dynamics in Citrus: Recent developments**
Anoop Kumar Shrivastava, National Research Centre for Citrus, India

15:30-15:45 **Title: Molecular basis of Maize differential resistance to herbicides**
Agata Tyczewska, Polish Academy of Sciences, Poland

Coffee Break 15:45-16:00

16:00-16:15 **Title: Effect of phosphate solubilizing bacteria on physico-chemical quality of organically grown spinach crop**
Sreedevi Shankar K, Central Research Institute for Dryland Agriculture (CRIDA), India

16:15-16:30 **Title: Effect of diesel oil pollution on biomass parameters of plants (*Glycine max* L., *Vigna subterranean* L. verdc. and *Zea mays* L.) in sandy loam soil**
Hyginus Ogbuehi, Imo State University, Nigeria

16:30-16:45 **Title: Inducing systemic resistance in plant using silica solubilising bacteria**
Venkatesh Devanur, AgriLife, India

Azure 2

Track 1: Crop Breeding and Genetics

Session Chair: Nnadozie Oraguzie, Washington State University, USA
Session Co-Chair: Sanjay Singh, Directorate of Wheat Research, India

Session Introduction

10:00-10:15 **Title: Beyond QTL discovery to routine marker assisted breeding in sweet cherry**
Nnadozie Oraguzie, Washington State University, USA

10:15-10:30 **Title: Prohexadione-Ca reduces plant height, improves yield and fruit quality on tomato and hot pepper crops**
Homero Ramirez, Universidad Autonoma Agraria Antonio Narro, Mexico

10:30-10:45 **Title: Comparing differential response of Lentil (*Lens culinaris* Medik) genotypes to aluminium toxicity in hydroponic and soil culture experiments**
Dharmendra Singh, Indian Agricultural Research Institute, India

10:45-11:00 **Title: Developing hybrid wheat for yield enhancement under Indian conditions**
Sanjay Singh, Directorate of Wheat Research, India

11:00-11:15 **Title: Chemical and biological management of wilt and root rot of Chickpea**
K Kanaka Durga, Acharya N. G. Ranga Agricultural University, India

11:15-11:30 **Title: Unreaped yield potential in Cotton in India**
BMK Raju, Central Research Institute for Dry Land Agriculture (CRIDA), India

Coffee Break 11:30-11:45

11:45-12:00 **Title: Induction of cold tolerance in Rice (*Oryza sativa* L.) during seedling stage**
M. Sudha Rani, Acharya N. G. Ranga Agricultural University, India

12:00-12:15	**Title: Impact of low temperature stress on pollen behaviour in rabi Sorghum** **P. Sanjana Reddy,** Directorate of Sorghum Research, India
12:15-12:30	**Title: Viral suppressors of RNAi: Assay and functional analysis** **Neeti Sanan Mishra,** International Center for Genetic Engineering and Biotechnology, India
12:30-12:45	**Title: Indigenous land races of Mungbean and Urdbean as potential donors for pulse improvement for tropical Bay island conditions** **Awnindra Kumar Singh,** Central Agricultural Research Institute, India
12:45-13:00	**Title: Development of stable Thebaine rich lines in Opium poppy (*P. somniferum* L.)** **Sudhir Shukla,** National Botanical Research Institute, India
	Lunch Break 13:00-14:00
14:00-14:15	**Title: Genetic analysis of yield and its components in Littlemillet (*Panicum sumatrense* Roth ex Roem. and Schultz)** **K. Salini,** Central Research Institute for Dryland Agriculture (CRIDA), India
14:15-14:30	**Title: Genetic variability, character association and path analysis in early segregating population of Bitter gourd (*Momordica charantia* L.)** **Radha Rani,** Dr. Y. S. R. Horticultural University, India
14:30-14:45	**Title: Application of database technologies for monitoring the performance of nutrient uptake and irrigation levels in oil palm** **K L Mary Rani,** Directorate of Oil Palm Research, India
14:45-15:00	**Title: Field evaluation of fungicides against sheath blight disease of Rice** **V. Prakasam,** Directorate of Rice Research, India

Track 6: Tissue Culture and Plant Biotechnology
Track 11: Agricultural Risk Management

Session Chair: Shiv Kant Shukla, Biotech Consortium India Limited (BCIL), India
Session Co-Chair: Amit Dhingra, Washington State University, USA

	Session Introduction
15:00-15:15	**Title: Comprehensive traceability of tissue culture raised plants in commercial micro- propagation** **Shiv Kant Shukla,** Biotech Consortium India Limited (BCIL), India
15:15-15:30	**Title: Studies on encapsulation of green tea catechins** **P. Sudha,** Avinshilingam University, India
15:30-15:45	**Title: Application of plant tissue culture technology in conservation and propagation of plant species used in Dashmula** **Susmita Shukla,** Amity University, India
	Coffee Break 15:45-16:00
16:00-16:15	**Title: Isolation, screening of Pseudomonas spp. for plant growth promotion & antagonistic activities and compatibility with pesticide molecules: An *in vitro* study** **J Sai Prasad,** Acharya N. G. Ranga Agricultural University, India
16:15-16:30	**Title: Association mapping for grain size traits in Rice** **DAK Deborah,** Acharya N. G. Ranga Agricultural University, India
16:30-16:45	**Title: Morphological and molecular characterization of the female and male genotypes of Spine Gourd (*Momordica dioica* Roxb.) using RAPDs** **Hameedunnisa Begum,** Dr. Y. S. R. Horticultural University, India
16:45-17:00	**Title: Genetic diversity assessment for authentication of ITS region as a DNA barcode for identification of medicinal plant *Cullen corylifolium*** **Shweta Chouhan,** M. P. Council of Science & Technology, India
17:00-17:15	**Title: Bio-efficacy of insecticides against *Plutella xylostella* (L.) in Cabbage (*Brassica oleracea* var. capitata)** **Shashi Vemuri,** Acharya N. G. Ranga Agricultural University, India

Poster Presentations

10:20-11:20 Poster No. 080 - 100
12:00-13:00 Poster No. 101 - 120
14:00-15:00 Poster No. 121 - 140

Award Ceremony & Closing Remarks

Poster Presentations

10:50-11:50 Poster No. 001 - 020
12:00-13:00 Poster No. 021 - 040
14:00-15:00 Poster No. 041 - 060
16:00-17:00 Poster No. 061 - 080

10:20-11:20 Poster No. 080 - 100
12:00-13:00 Poster No. 101 - 120
14:00-15:00 Poster No. 121 - 140

P-001	**Title: The role of alternative splicing in two maize lines under herbicide stress conditions** ***Joanna Gracz***, *Polish Academy of Sciences, Poland*
P-002	**Title: Next generation breeding tolls for development of stress tolerant crops** ***Abhijit Daspute***, *University of Agricultural Sciences, India*
P-003	**Title: Effect of moisture content on physical and mechanical properties of Nutmeg (*Myristica fragrans* Houtt.)** ***Prashant Pandharinath Said***, *Banaras Hindu University, India*
P-004	**Title: Effect of harvesting at different heights on growth and flower yield of Carnation (*Dianthus caryophyllus* L.) in second season crop** ***Ashwini Kasturi***, *Dr. Y. S. R. Horticultural University, India*
P-005	**Title: Production potential and economic feasibility of Maize (*Zea mays*)-Soybean (*Glycine max*) intercropping system under various row proportions and zinc levels in rainfed condition** ***Malve Sachin Himmatrao***, *Acharya N. G. Ranga Agricultural University, India*
P-006	**Title: Generation means analysis for yield and its components in two bread wheat (*Triticum aestivum* L.) crosses under saline conditions** ***Mohamed S Hassan***, *South Valley University, Egypt*
P-007	**Title: Influence on certain herbicides for the control of water Hyacinth (*Eichhornia crassipes* (mart.) solms)** ***S. Deiva Sigamani***, *Annamalai University, India*
P-008	**Title: Study of pollinator activity in Cho-Cho *Sechium edule* (Jacq.) Sw Crop** ***M. A. Rashmi***, *University of Agricultural Sciences, India*
P-009	**Title: The relationship between the infection levels of *Nosema apis* parasites and epithelial cells of mid-gut of honeybee** ***Karem Mohamed Mohanny***, *South Valley University, Egypt*
P-010	**Title: Standardization of Induction temperature in Musa cultivar Grand Naine to analyze temperature tolerance** ***V. Ramanjinappa***, *Indian Institute of Horticultural Research, India*
P-011	**Title: Gender roles in agrobiodiversity conservation through homestead farming and threats faced by the farmers** ***N Krishna Priya***, *Acharya N. G. Ranga Agricultural University, India*
P-012	**Title: Detection and Estimation of damage caused by thrips *Thrips tabaci* (Lind) of cotton using Hyperspectral radiometry** ***Ranjitha Gurram***, *Tamil Nadu Agricultural University, India*
P-013	**Title: Studies on the effect of integrated nutrient management practices on dry matter production and nutrient uptake of Palak (*Beta vulgaris* var. Bengalensis Hort.)** ***P. Vinod Kumar***, *Dr. Y. S. R. Horticultural University, India*
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P-015	**Title: *In-silico* analysis of molecular phylogeny and evolutionary relationship among insecticidal resistance genes from important agricultural pests** ***R Gandhi Gracy***, *University of Agricultural Sciences, India*
P-016	**Title: *In vitro* studies on the interaction of *P. fluorecens* and certain tested soil microorganisms** ***A. A. Abobaker Basha***, *South Valley University, Egypt*
P-017	**Title: Integrated weed management in rabi sweet corn (*Zea mays* L. var. Saccharata)** ***Bhagirathsinh Sahdevsinh Gohil***, *Junagadh Agricultural University, India*
P-018	**Title: Morphological and molecular diversity analysis in Sesame (*Sesamum indicum* L.)** ***S Lalitha Kiranmayi***, *Acharya N. G. Ranga Agricultural University, India*
P-019	**Title: Combining ability analysis to identify superior F1 hybrids for yield and quality improvement in Tomato (*Solanum lycopersicon* L.)** ***Adhi Shankar***, *Dr. Y. S. R. Horticultural University, India*
P-020	**Title: Quality gene introgression for development of quality protein maize hybrid using marker assisted selection** ***M. Surender***, *Acharya N. G. Ranga Agricultural University, India*
P-021	**Title: Efficacy of pre- and post- emergence herbicide for integrated weed management in summer Green gram (*Vigna radiata* L. Wilczek)** ***S. K. Chhodavadia***, *Junagadh Agricultural University, India*
P-022	**Title: Identification of high water use efficient rice genotypes using Scanning Electron Microscope** ***Roja Veeraghattapu***, *Acharya N. G. Ranga Agricultural University, India*
P-023	**Title: Marker assisted introgression of BB and blast resistant genes in mega rice variety MTU1010** ***K. Aruna Kumari***, *Acharya N. G. Ranga Agricultural University, India*
P-024	**Title: Identification of sex-specific molecular and biochemical markers in nutmeg (*Myristica fragrans* Houtt.)** ***Sudhamayee Maddela***, *Kerala Agricultural University, India*
P-025	**Title: Growth and yield of sunflower genotypes (*Helianthus annuus* L) as influenced by varying levels of NPK fertilization** ***Kadasiddappa Malamasuri***, *Acharya N. G. Ranga Agricultural University, India*
P-026	**Title: Correlation and path coefficient analysis on seed yield in Sunflower** ***Venkata R Prakash Reddy***, *Acharya N. G. Ranga Agricultural University, India*
P-027	**Title: Growth and yield performance of bush Beans (*Lablab purpurium* var. Typical.) under varying levels irrigation and fertigation of N and K** ***Saileela K***, *Acharya N. G. Ranga Agricultural University, India*
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P-029	**Title: Identification of alternate dwarfing gene(s) to the widely used green revolution gene 'sd1' in Rice** ***Siddhartha Swarup Jena***, *Acharya N. G. Ranga Agricultural University, India*
P-030	**Title: The elevated production of spilanthol from *in vitro* cultures of *Spilanthes acmella* Murr. by optimization of media constituents via response surface methodology** ***Radhika Rajendran***, *Indian Institute of Technology Guwahati, India*
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P-032	**Title: Effect of top dressing and foliar appliaction of organic nutrient sources on growth and yield of Sorghum** ***Tejavath Barath Rathod***, *Acharya N. G. Ranga Agricultural University, India*
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P-036	**Title: Effect of growth regulators on shelf-life of sweet Orange cv. Sathgudi at low temperature (*Citrus sinensis* Osbeck.)** ***Hemalatha V***, *Dr. Y. S. R. Horticultural University, India*
P-037	**Title: Population dynamics of major sucking pests of *Bt* cotton in North Saurashtra region of Gujarat, India** ***M. K. Ghelani***, *Junagadh Agricultural University, India*

P-038	**Title: Effect of seed biopriming using biocontrol agents for enhanced germination and vigour in chilli cv. PKM 1** ***M. Ananthi***, *Tamil Nadu Agricultural University, India*
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P-043	**Title: Yogic and organic agriculture: Call of a time** ***Sham P. Patinge***, *Prajapita Brahmakumaris Ishwariya Vishwa Vidhyalaya, India*
P-044	**Title: Screening for tolerance to sterility mosaic disease in ratoon Pigeon pea (*Cajanus cajan* L.) - An innovative approach** ***Shourabh Joshi***, *Acharya N. G. Ranga Agricultural University, India*
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P-047	**Title: Study of correlation and path analyses pooled over environments in Sesamum (*Sesamum indicum* L.)** ***Jhansi Rani P***, *Agricultural College, India*
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P-051	**Title: Effect of 1-MCP on quality and shelf life of winter Guava** ***Ramesh Kumar***, *Central Institute of Post Harvest Engineering and Technology (CIPHET), India*
P-052	**Title: Characterization of germplasms of Opium Poppy (*Papaver somniferum* L.) based on biochemical analysis and association among different traits** ***Nidhi Verma***, *National Botanical Research Institute, India*
P-053	**Title: Effect of auxin and gibberellic acid on growth and yield components of Linseed (*Linum usitatissimum* L.)** ***Ameena Siddiqui***, *National Botanical Research Institute, India*
P-054	**Title: Identification of adaptable and stable genotype for seed and opium yield in Opium poppy (*Papaver somniferum* L.) based on various stability models** ***Rawli Pandey***, *National Botanical Research Institute, India*
P-055	**Title: Role of biosolids in sustainable development** ***Praveen Solanki***, *Acharya N. G. Ranga Agricultural University, India*
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P-062	**Title: Effect of planting geometry and seedling density on growth, yield and quality of aromatic rice under SRI based cultivation practices** ***Damini Thawait***, *Indira Gandhi Agricultural University, India*
P-063	**Title: Effect of integrated nutrient management on growth, yield and quality of short grain aromatic Rice varieties (*Oryza sativa* L.) for Chhattisgarh plains** ***Amit Kumar Patel***, *Indira Gandhi Agricultural University, India*
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P-070	**Title: Effect of plant growth regulators and spacings on vegetative growth & flower yield of african marigold cv. pusa narangi gainda** ***P. Ashok***, *Dr. Y. S. R. Horticultural University, India*
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P-073	**Title: Direct organogenesis and transformation of AVP1 gene for salt tolerance in Finger millet (*Eleusine coracana*.G.)** ***K. M. Vasantha***, *University of Agricultural Sciences, India*
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P-076	**Title: Effect of rhizobium inoculation with different levels of nitrogen on performance of *Slbizia procera* (Safed siris) seedlings** ***Smriti Kolhey***, *Indira Gandhi Krishi Vishwavidyala, India*
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	Sana Choudhary, *Aligarh Muslim University, India*
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	Rumana Aslam, *Aligarh Muslim University, India*
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	Nusrat Jahan, *Aligarh Muslim University, India*
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	Seema Sahay, *Aligarh Muslim University, India*
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	Sushma M. Awaji, *University of Agricultural Sciences, India*
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	Manasa K. M, *University of Agricultural Sciences, India*
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	Saba Iqbal, *Aligarh Muslim University, India*
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	Duraimurugan Ponnusamy, *Directorate of Oilseeds Research, India*
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	Neha Pathak, *Aligarh Muslim University, India*
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	Ijinu T P, *Amity Institute for Herbal and Biotech products Development, India*
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	P. Sowmya, *Central Research Institute for Dryland Agriculture (CRIDA), India*
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	K. V. Prasad Babu, *Directorate of Rice Research, India*
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	Rushda Sharf, *Aligarh Muslim University, India*
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	H. G. Kanara, *Junagadh Agricultural University, India*
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	Anitha Gorthi, *Acharya N. G. Ranga Agricultural University, India*
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	M Padmanabhan, *University of Agricultural Sciences, India*
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	Pawan Kumar, *Jaypee University of Information Technology, India*
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	Pranamika Sharma, *Assam Agricultural University, India*
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	Suresha Jayappa, *University of Horticultural Sciences, India*
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	Brij Bala, *Himachal Pradesh Agricultural University, India*
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	S. D. Sharma, *Hill Agricultural Research and Extension Centre (HAREC), India*
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	Rajeshwari Hosamani, *Kittur Rani Channamma College of Horticulture, India*
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	Gopu Balraj, *Tamil Nadu Agricultural University, India*
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	T. Venugopal Rao, *Acharya N. G. Ranga Agricultural University, India*
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	Nagendran Krishnan, *Tamil Nadu Agricultural University, India*
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	Anugu Anil Reddy, *Acharya N. G. Ranga Agricultural University, India*
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	Jayvee Adriano Cruz, *Philippine Rice Research Institute, Philippines*
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	Sachin Gaikwad, *Vasantrao Naik Marathwada Krishi Vidyapeeth, India*
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	Sriharsha V. P, *CCS Haryana Agricultural University, India*
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