

TECHNICAL PROGRAM

Day 1: 10.02.2023 (Friday)

930- 1100 hrs.
 Celebration of
World Pulses Day
 and
 Inauguration of International Conference on
**Pulses: Smart Crops for Agricultural Sustainability
 and Nutritional Security
 (ICPulses2023)**

1100-1130 hrs: High Tea

Plenary lectures: 1130 – 1300 hrs.

Dr Aly Abousabaa, Director General, ICARDA

Dr U Naing Kyi Win, Director General, DAR,
 Myanmar

*Pulses Research in Myanmar: Status and Way
 Forward*

Dr Sanjeev Gupta, ADG (O&P) ICAR
India's march towards self-sufficiency in pulses

Chair: Dr Himanshu Pathak, Secy., DARE and
 Director General ICAR

Co-Chair: Dr. B. B. Singh, Former ADG (O&P),
 ICAR

Rapporteurs: Dr SK Jha, ICAR, New Delhi;
Dr Kavita Gupta, ICAR-NBPGR, New Delhi

1300- 1400 hrs.: Lunch

Session 1: 1400 - 1730 hrs
(Special Session dedicated to World Pulses Day)
Farm to Fork: Planning, Policy, Perspectives

Coordinator
Dr Pratap Birlhal, Director, ICAR-NIAEPR, New Delhi

Chair
Sh Manoj Ahuja, Secretary, DAC&FW, New Delhi

Co-Chair
Mr Bimal Koithari, President, India Pulses and Grains Association,
 Mumbai

Rapporteurs
Dr Girish Jha, ICAR-Indian Agricultural Research Institute, New Delhi
Dr JP Mishra, ICAR-HQ, New Delhi

Lead Lecture
Dr. Francis C. Ogbonnaya, Manager, Pulse Crops and Breeding
 Platforms, GRDC, Australia
*Investments in R, D&E as the catalyst to pulse improvement and
 vehicle to ensuring farmers profitability outcomes*

Lead Lecture
Dr PK Joshi, Former Director, International Food Policy Research
 Institute, South Asia Office, New Delhi
Sustaining Pulse Revolution in India

Invited lecture
Ms Shubha Thakur, Joint Secretary, DAC&FW, Gol
Policy perspectives of pulses revolution

Invited lecture
Dr Eric Huttner, Program Manager (Crops), ACIAR, Australia
*Examples of ACIAR research: Securing pulses crops for small holders in
 the Indo-Pacific*

Invited lecture
India Pulses and Grains Association
Overview of international pulses sector and trade policies

Invited lecture
Mr G Chandrashekhar, The Hindu Business line
Overview of Indian pulses sector and trade policies

Invited lecture
Dr R Jagannohan, Head, The National Institute of Food Technology,
 Entrepreneurship and Management, Thanjavur
Futuristic opportunity for product development for nutritional security

Invited lecture
Dr A Amarender Reddy, Principal Scientist, ICAR-CRIDA, Hyderabad
*Policies for sustainable agriculture and nutrition through pulse-based
 cropping systems*

1730 – 1830 hrs: Tea and Poster session

1900 – 2130 hrs: Cultural programme followed by welcome dinner

CONCURRENT TECHNICAL SESSIONS

Day 2: 11.02.2023 (Saturday)

900 – 1300 hrs	Session 2: Mendelian Breeding for Crop Resilience	Session 3 Enhancing the Crop Produce	Session 4: Nutri-Smart Pulses and Data-driven Decision Making
Convener	Dr Sanjay Kumar , Director, ICAR-IISR, Mau	Dr Raj Singh , Head, Agronomy Division, ICAR-Indian Agricultural Research Institute, New Delhi	Dr Anjani K Singh , IFPRI, South Asia, New Delhi
Chair	Dr SK Sharma , Former Vice Chancellor, CSKHPKV, Palampur	Dr Masood Ali , Former Director, ICAR-Indian Institute of Pulses Research, Kanpur	Dr JS Sandhu , Former Vice Chancellor, SKNAU, Jobner
Co-Chair	Dr N Nadarajan , Former Director, ICAR-Indian Institute Of Pulses Research, Kanpur	Dr. N.P. Singh , Former Director, ICAR-NIASM, Baramati	Dr Michael Baum , International Centre for Agricultural research in Dry Areas, Morocco
Rapporteurs	Dr Gyan P Mishra , ICAR-Indian Agricultural Research Institute	Dr Baldev Ram , ARS, Kota	Dr Soufmanien J , BARC, Mumbai
Lead Lecture	Dr. Shayla Bindra , PAU, Ludhiana	Dr Mrunalini Kancheti , ICAR-Indian Institute of Pulses Research, Kanpur	Dr. Padma Gore , ICAR-NBPGR, New Delhi
Invited lecture	Dr Pooran Gaur , Former Director Asia Program, ICRISAT Mendelian breeding in pulses: Achievements and future outlook	Dr PK Ghosh , ICAR-National Institute of Biotic Stress Management, Raipur Role of pulses in conservation agriculture	Dr Dil Thavarajah , Clemson University, USA Breeding Biofortified Pulses for human health: A high-throughput phenotyping platform for quantifying nutritional traits
Invited lecture	Dr Petr Smykal , Faculty of Sciences, Palacky University in Olomouc, Czech Republic Domestication and genetic diversity of leguminous crops	Dr ML Jat , ICRISAT, Hyderabad Legumes in regenerative agriculture space towards carbon neutrality and nutrition	Dr Parwinder Kaur , DNA Zoo Australia Breaking Barriers - From conventional to next generation genetics targeting nutrition in pulses
Invited lecture	Dr JS Sandhu , Former Vice Chancellor, SKNAU, Jobner Recombination breeding and genetic gain in pulses: A saga of success	Dr Anil Saxena , Former Director, ICAR-NBAIM, Mau Microbial inoculants as a natural resource for improving health and nutrition of pulse crops	Dr Monika Garg , NABI Mohali Nutri-genomics in pulses: Way forward
Invited lecture	Dr Shiv Kumar , International Centre for Agricultural Research in Dry Areas, New Delhi, India Impact of Major Genes on Genetic Gains of pulses	Dr YS Shivay , ICAR-Indian Agricultural Research Institute, New Delhi Contribution of pulses towards food and nutritional security through organic farming	Dr Harsh Dikshit , ICAR-Indian Agricultural Research Institute, New Delhi Biofortification of pulses: progress, strategies and way forward
Invited lecture	Dr GP Singh , ICAR-National Bureau of Plant Genetic Resources, New Delhi Plant Genetic Resources management and Utilization : efforts of ICAR-NBPGR in Pulses	Dr S Bhaskar , ADG Agronomy, Agroforestry and Climate Change, ICAR HQ, New Delhi	Ms Padma Ishwarya , Good Food Institute, Mumbai Plant based food and smart proteins from pulses

Invited lecture	Dr Ramakrishnan M. Nair , WorldVeg, Hyderabad International Mungbean Improvement Network 2 (IMIN2) - New Initiatives	Dr. Narendra Kumar , ICAR-Indian Institute of Pulses Research, Kanpur Pulses-climate smart crops for cropping systems intensification and resource conservation	Dr Prasoon Verma , ICAR-Indian Institute Of Pulses Research, Kanpur Enhancing farm income through storage and processing of pulses
Invited lecture	Dr GP Dixit , ICAR-Indian Institute of Pulses Research, Kanpur Breeding Rabi Pulses for adaptation to climate change	-	-
Invited lecture	Dr JC Rana , Alliance for Bioversity International, New Delhi Mainstreaming Minor Grain Legumes for Enhanced Nutrition and Climate Resilience	-	-
Invited lecture	Dr PK Katiyar , ICAR-Indian Institute of Pulses Research, Kanpur Seed system research in pulses: Progress and perspectives	-	-
Invited lecture	Dr Shivaili Sharma , Global Crop Diversity Trust Tapping the Untapped: Plant Genetic Resources for Grain Legume Improvement	-	-
Oral presentation	P Jayamani and D Susmitha , Tamil Nadu Agricultural University, Coimbatore Development of pre-breeding lines through interspecific hybridization between green gram and ricebean	SI Patil, MSVenkatesh and CR Patil , ICAR-Indian Institute of Pulses Research, Kanpur Sustaining Crop Productivity in Maize-Chickpea Cropping System through Integrated Nutrient Management in Vertisols of Southern Peninsular India	Sachidananda Swain, Jyoti Nayak & Pragati Kishore Rout , ICAR-Central Institute for Women in Agriculture (CIWA), Bhubaneswar, Odisha Processing Interventions for the Reduction of Anti-Nutrients Factors in Pulses
Oral presentation	Golu Misra and Archana Joshi Saha , Bhabha Atomic Research Centre, Trombay, Mumbai Insights into regulation of organ size using genetic, physiological and molecular characterization of a chickpea (<i>Cicer arietinum</i> L.) mutant	Sanjeev Kumar Singh, P Rajesh and D Rajarajan , Tractors and Farm Equipment Limited, Kanchipuram, Tamil Nadu Evaluation of foliar application of liquid fertilizers with Unmanned Aerial Vehicle (UAV) mounted sprayer in blackgram (<i>Vigna mungo</i> L)	Muraleedhar S Aski, Gyan Prakash Mishra, ... and HK Dikshit , ICAR-Indian Agricultural Research Institute, New Delhi Strategies for Identifying Stable Lentil Cultivars (<i>Lens culinaris</i> Medik) for Combating Hidden Hunger, Malnourishment, and Climate Variability
Oral presentation	Rajendra Darai, Krishna Hari Dhakal, Madhav Prasad Pandey, et al. , Nepal Agricultural Research Council, Nepalgunj, Banke Lumbini Province, Nepal Effect of Genotype by Environmental Interactions on Grain Iron (Fe) and Zinc (Zn) Concentration of Biofortified Lentils in Nepal	CP Nath, Narendra Kumar, K.K. Hazra, et al. , ICAR-Indian Institute of Pulses Research, Kanpur Conservation agriculture and efficient weed management in rice-chickpea cropping system for intensification of rice fallows	Devraj, PK Katiyar and Amrit Lamichaney , ICAR-Indian Institute of Pulses Research, Kanpur Development of Digital Platform for Retrieval of Quality Seed Production data for Pulses

Oral presentation	Fouad Maalouf, Rind Balech, Lynn Abou Khafer and Shiv kumar. International Center for Agricultural Research in the Dry Areas (ICARDA), Terbol, Lebanon Novel tools for improving faba bean productivity in diverse agroclimatic conditions	Raj Singh, Teekam Singh, Anchal Dass et al. ICAR-Indian Agricultural research Institute, New Delhi Sustainable intensification through pulses for improving productivity, profitability and resource use efficiency under conservation agriculture in rainfed semi-arid environments	Nishanth BM, Soregaon C D and Vishwasgowda C. University of Agricultural Sciences, Dharwad Genotype x environment interactions effect on grain iron (Fe) and zinc (Zn) concentration in pigeonpea [Cajanus cajan (L.) Millsp.] using AMMI model
Rapid fire presentation	Aung Lwin Oo, TS Bains, Parul Sharma, et al. Punjab Agricultural University, Ludhiana Development of YMD resistant and dual season photo insensitive mungbean genotypes through interspecific hybridization	Vishal Tyagi, Kuldeep Jayaswalli, Sanjay Kumar, et al. ICAR-Indian Agricultural research Institute, New Delhi Nano-fertilizer based nutrient management in chickpea	Basavaraja, T, Anupam Tripathi, Asik Dutta, et al. ICAR-Indian Institute of Pulses Research, Kanpur Assessment of biofortified dry bean lines for agronomic performance and seed micronutrient attributes in India
Rapid fire presentation	Kuldeep Tripathi, DP Wankhede, Niranjana Murthy, et al. ICAR-National Bureau of Plant Genetic Resources, New Delhi The Indian national genebank cowpea core set: a valuable resource for research, breeding and improvement	Deepak Kumar Chandrakar, Mangla Parikh, Kusum Chandrakar et al. Indra Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh Yield maximization of fieldpea through surface seeding, seed rate and seed priming under rice-based utera cropping system	Man Mohan Deo, Prasoon Verma, Narendra Kumar et al. ICAR-Indian Institute of Pulses Research, Kanpur Effect of microwave heating as pre-treatment for milling of pigeonpea
Rapid fire presentation	Amrit Lamichaney, Satheesh Naik, Dibendu Datta, et al. ICAR, Indian Institute of Pulses Research, Kanpur Breaking seed coat imposed dormancy in wild relatives of pigeonpea (Cajanus cajan L)	Asik Dutta, Kali Krishna Hazra, Chaitanya P Nath, et al. ICAR, Indian Institute of Pulses Research, Kanpur Soil phosphorus dynamics and crop productivity under pulse based cropping system for sustainable P management in an Inceptisol	Biswajit Mondal, Yogesh Kumar, Nandan Singh, et al. ICAR-Indian Institute of Pulses Research, Kanpur Digitalization of breeding pipeline of desi chickpea trials of ICAR-Indian Institute of Pulses Research, Kanpur in the Breeding Management System (BMS) platform
Rapid fire presentation	-	Jeetendra Kumar Soni, Lungmuana, Sunil Kumar Sunani, et al., ICAR-RC NEH Region, Mizoram Centre, India Weed smothering effect of legumes under maize based intercropping under Hilly terrain of Mizoram	Monika Yadav, Sreerama Y N and Meera M S, CSIR-Central Food Technological Research Institute Utilization of pulse-milling by-products: Effect of protein on the bio-accessibility of calcium

Tea and Poster session: 1100 -1130 hrs.

Lunch: 1300-1400 hrs

1400hrs – 1800 hrs	Session 5: Modern Tools for Crop Improvement	Session 6: Revisiting the Roots	Session 7: Innovative Extension Approaches
Convener	Dr Tapan K Mondal , Principal Scientist, ICAR-National Institute of Plant Biotechnology, New Delhi Dr TR Sharma , DDG (CS), ICAR, New Delhi	Dr SL Patil , ICAR-Indian Institute of Pulses Research, Kanpur Dr AK Vyas , Vice Chancellor, Agriculture University, Kota Dr SS Singh , Rani Laxmi Bai Central Agricultural University, Jhansi	Dr. Uma Sah , ICAR-Indian Institute Of Pulses Research, Kanpur Dr AK Singh , Vice Chancellor, RLBCAU, Jhansi Dr. US Gautam , Deputy Director General (Agril Ext.), ICAR HQ, New Delhi
Chair	Dr Petr Smykal , Faculty of Sciences, Palacky University in Olomouc, Slechtitelu, Czech Republic	Dr SC Gupta , RAK College, Sehore Dr. Anil Dixit , ICAR-National Institute of Biotic Stress Management, Raipur	Dr R Burman , ICAR-Indian Agricultural Research Institute, New Delhi Dr Rekha Rani , ICAR-Indian Institute of Pulses Research, Kanpur
Co-Chair	Dr Alok Das , ICAR-Indian Institute Of Pulses Research, Kanpur Dr. Jyoti Kumari , ICAR-National Bureau of Plant Genetic Resources, New Delhi	Dr N Ravishankar , Principal Scientist, ICAR-Indian Institute of Farming Systems Research, Modipuram Dr Shantti K Sharma , Maharana Pratap University of Agriculture and Technology, Udaipur Complimentary and Supplementary Synergies of Pulses for Higher Sustainability of Organic and Natural Farming Systems	Dr AK Singh , Vice Chancellor, RLB Central Agricultural University, Jhansi Innovation in Transfer of Technologies for Enhancing Pulses Production in India Dr Sreenath Dixit , ICRISAT, Hyderabad Strategies for scaling good agricultural practices for bridging yield gap in pulses: Lessons from the across select Indian states
Rapporteurs	Dr Roland Schaffeliner , World Vegetable Centre, Shanhua, Taiwan Modern tools for mungbean crop improvement Dr Prakit Somta , Kasetsart University, Thailand Genome Research of Pulses Crops in the Genus Vigna	Dr Anup Das , ICAR-NEH, Tripura Center Opportunity of organic and natural farming in pulses based systems with reference to north east India	Dr Rajbir Singh , ATARI, Zone I, Ludhiana Sustainable intensification through pulses in north India – A perspective Dr RN Padaria , ICAR-Indian Agricultural Research Institute, New Delhi Community based extension approaches: pragmatic reflection
Lead Lecture	Dr Michael Baum , International Centre for Agricultural Research in Dry Areas, Morocco Modern Tools for pulses improvement	Dr Anup Das , ICAR-NEH, Tripura Center Opportunity of organic and natural farming in pulses based systems with reference to north east India	Dr Neeta Khandekar , ICAR-Indian Institute of Soybean Research, Indore Developing ecosystems for sustainable legume production
Invited lecture	Dr Rajeev K Varshney , Murdoch University, Australia Genomics for legumes improvement: Present and future	Dr Anup Das , ICAR-NEH, Tripura Center Opportunity of organic and natural farming in pulses based systems with reference to north east India	Dr Neeta Khandekar , ICAR-Indian Institute of Soybean Research, Indore Developing ecosystems for sustainable legume production
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Invited lecture	Dr KC Bansal , National Academy of Agricultural Sciences, New Delhi <i>Genome Editing in Pulses for Sustainable Agriculture</i>	Dr. Raghavendra Singh , ICAR-Indian Institute of Pulses Research, Kanpur <i>Pulses based organic farming for achieving SDGs</i>	Dr Shaik N Meera , ICAR-Indian Institute of Rice Research, Rajendernagar, Hyderabad <i>Digital extension Strategies for Future: Eyes in the Sky and Feet on the ground</i>
Invited lecture	Dr PK Agrawal , ADG Coordination, ICAR New Delhi <i>Transgenics in Pulses: Developments, Policies and Way forward</i>	-	Dr Shantanu Dubey , ICAR-ATARI, Kanpur <i>Blending technology with policy at scale: success case of nationwide pulses development program in India</i>
Invited lecture	Dr C Bharadwaj , ICAR - Indian Agricultural Research Institute, New Delhi <i>Traversing from Genomic assisted breeding to genomic selection towards yield resilience in Chickpea</i>	-	
Oral presentation	Sandhya suranjika, Seema pradhan, Dr Ajay parida, et al. Institute of Life Sciences, Bhubaneswar, Odisha <i>Transcriptomics of Vigna aconitifolia for developing a gene expression atlas</i>	Raghavendra Singh, CP Nath, Narendra Kumar, et al. ICAR-Indian Institute of Pulses Research, Kanpur <i>Effect of organic practices on productivity and profitability of pulse-based system in comparison to the inorganic management</i>	Rajesh Kumar, Bagish Kumar, M Thoilthol Devi, et al., ICAR-Agricultural Technology Application Research Institute, Zone-VI, Guwahati <i>Impact on Yield and Economics of Field Pea (Pisum sativum L.) Through Cluster Frontline Demonstrations in North East India, India</i>
Oral presentation	Md. Mosiur Rahman, Md. Omar Ali, Rong Liu, et al., Bangladesh Agricultural Research Institute, Joydebpur, Gazipur <i>SSR-based genome-wide association studies for yield related agronomic and biochemical traits of grass pea germplasm collected from China and Bangladesh</i>	M Vinutha, E. Somasundaram, S. Sanbagavalli, et al., Tamil Nadu Agricultural University, Coimbatore <i>Organic blackgram productivity as influenced by the application of organic and liquid manures</i>	Laxmipriya Sahoo, Monalisha Sahoo, Ankita Sahu et al., ICAR-Central Institute for Women in Agriculture, Bhubaneswar <i>Development and validation of "Farmwomen Led Integrated Local Seed Network" model for improving availability of quality pulse seeds</i>
Oral presentation	Shanmugavadivel PS, Jyotirmay Dubey, Kapale Vijay Pandurang, et al. ICAR-Indian Institute of Pulses Research, Kanpur <i>CRISPR/cas9 based genome editing to improve yield and symbiotic nitrogen fixation in Chickpea</i>	Robin Thakur, D.K. Parmar, Rushali Katoch, et al. CSK Himachal Pradesh Krishi Vishwavidyalaya, Palampur. <i>Soil fertility and horse gram (Macrotyloma uniflorum) productivity as affected by different methods of jeevamrit application under mid hills of Himachal Pradesh</i>	Ramesh Rajangam, Sassikumar, D and A.Yuvaraja Tamil Nadu Agricultural University, National Pulses Research Centre, Vamban <i>Farmers Participatory Large Scale Seed Production in Blackgram for Higher Income and Seeds Exchange among Farmers through FPO under World Bank funded TNIAM Project</i>
Oral presentation	-	-	Uma Sah, Vikrant Singh, Jitendra Ojha, Mohit Katiyar and Prasoon Verma. ICAR-Indian Institute of Pulses Research, Kanpur, UP, India <i>Value transformation along lentil value chain in Uttar Pradesh state of India</i>

Rapid fire presentation	Rishikesh Kumar, Manjunatha L, Khela Ram Soren, et al. ICAR-Indian Institute of Pulses Research, Kanpur <i>Rapid detection of Fusarium oxysporum f. sp. ciceris in chickpea using xylanase transcriptional activator (XhR) gene based LAMP technique</i>	-	Malathi B, Bhaskaran A, Prasad JV, et al. ICAR-Agricultural Technology Application Research Institute (ATARI), Zone-X, Hyderabad <i>Effect of organic practices on productivity and profitability of pulse-based system in comparison to the inorganic management</i>
Rapid fire presentation	Neeraj Kumar, C Bharadwaj, Soren KR, et al. ICAR-Indian Agricultural Research Institute, New Delhi <i>Chickpea long non-coding RNAs (lncRNAs): genome-wide discovery and functional prediction under salt-stress</i>	Sachin Saharan, Janardan Singh and Rahul Sharma. CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur <i>Effect of Organic sources of Nutrients in Blackgram (Vigna Mungo L.) under mid-hill conditions of Himachal Pradesh</i>	Rajesh Bishnoi, B Lal and T N Tiwari. ICAR-Indian Institute of Pulses Research, Regional Research Centre, Bikaner, Rajasthan <i>Constraint analysis and upscaling strategies to increase arid pulse production in western Rajasthan</i>
Rapid fire presentation	Soren, K R., Tripathi, Sandhya, Chellapilla, et al. ICAR-Indian Institute of Pulses Research, Kanpur <i>Comprehensive BURP superfamily study in Chickpea revealed RD22 genes involved in salinity stress tolerance</i>	Disha Joshi, Bhavna Singh Rathore, Suman Dhayal. Rajasthan College of Agriculture, MPUAT, Udaipur <i>Growth and yield of urdbean (Vigna mungo (L.) Hepper) influenced by vermicompost and vermiwash</i>	Revannappa SB, Manu B, Aditya Pratap, et al. ICAR, Indian Institute of Pulses Research, Kanpur. ICAR- Indian Institute of Pulses Research, Kanpur <i>Impact of improved mungbean variety on farmers' income and nutritional security</i>
Rapid fire presentation	Hardeep Singh, Vishal Sharma, Karambir, et al. National Agri-Food Biotechnology Institute, Mohali <i>Development of robust and effective Agrobacterium-mediated genetic transformation system for CRISPR/Cas9-based genome editing in pea (Pisum sativum L.)</i>	-	-

Tea and Poster session: 1530 to 1600 hrs

Plenary Lecture (1800 – 1900 hrs)

Prof. Rattan Lal, Ohio State University, USA

Pulses for Sustainable Agriculture and Improved Soil Quality in the Era of Climate Change

Chair: Dr. Himanshu Pathak, Secretary DARE and DG ICAR

Rapporteur: Dr. Dhanasekar, BARC, Mumbai; **Manivannan, M.**, TNAU Coimbatore

Dinner: 1930 – 2100 hrs

CONCURRENT TECHNICAL SESSIONS

Day 3: 12.02.2023 (Sunday)

900 – 1300 hrs		Session 8: New Vistas in Stress Resilience-Biotic Stresses		Session 9: New Vistas in Stress Resilience-Abiotic Stresses	
Convener	Dr Naimuddin, ICAR-Indian Institute Of Pulses Research, Kanpur	Dr. Senthil Kumar, ICAR-Indian Institute Of Pulses Research, Kanpur			
Chair	Dr HC Sharma, Former Vice Chancellor, Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Solan	Dr NP Singh, Vice Chancellor, Banda University of Agriculture and Technology, Banda			
Co-Chair	Dr. Bansa Singh, ICAR-Indian Institute of Pulses Research, Kanpur	Dr SK Chaturvedi, Dean, RLB Central Agricultural University, Jhansi			
Rapporteurs	Dr Gaurav K Taggar, Punjab Agricultural University, Ludhiana	Dr Poonam Sharma, Punjab Agricultural University, Ludhiana			
Lead Lecture	Dr Ruchi Bansal, ICAR-Indian Agricultural Research Institute, New Delhi	Dr Dharmendra Patel, ICAR-Indian Institute of Pulses Research, Kanpur			
Invited lecture	Dr SC Dubey, ADG Plant Protection, ICAR, New Delhi Diversity and management of <i>Fusarium oxysporum</i> f.sp. <i>ciceris</i> causing chickpea wilt	Dr Douglas Cook, UC Davis, California, USA Chickpea's wild plant and microbial relatives: Implications for agriculture			
Invited lecture	Dr Subhash Chander, Director, ICAR-National Research Centre for Integrated Pest Management, New Delhi Pest Management in Pulse Crops with Climate Change Perspective	Dr Vijaya Singh, University of Queensland, Australia Genotypic differences in response to heat stress in mungbean and phosphorus placement in chickpea			
Invited lecture	Dr Mamta Sharma, Principal Scientist, ICRIAT, Hyderabad Revamping the role of research for biotic stress management in pulses under changing climate	Dr Mukesh Jain, Dean, Jawaharlal Nehru University, New Delhi, India Integrated multi-omics for unraveling candidate genes associated with drought tolerance in chickpea			
Invited lecture	Dr Mohd Akram, Principal Scientist, ICAR-Indian Institute of Pulses Research, Kanpur Yellow mosaic disease of pulse crops: Diagnostics, diversity and management	Dr Dorin Gupta, Associate Professor, University of Melbourne, Australia Plant available silicone and abiotic stress mitigation – progress and perspectives			
Invited lecture	Dr Bansa Singh, Director, ICAR-Indian Institute of Pulses Research, Kanpur Nematode stresses of pulses, their current status and management options	Dr Jagdish Rane, Principal Scientist, NIASM, Baramati Remote sensor to sense pulses of pulse crops under abiotic stress			
Invited lecture	Dr Ajit K Shasany, Director, ICAR-National Institute for Plant Biotechnology, New Delhi C. platycarpus: A reservoir of resistance to biotic stresses in pigeonpea	Dr PS Basu, Former Principal Scientist, ICAR-Indian Institute of Pulses Research, Kanpur Ideal plant type of chickpea under water limited environment of north India			
Invited lecture	Dr Manish Pandey, International Centre for Agricultural Research in Dry Areas, Hyderabad Translational genomics to accelerate pigeonpea disease resistance breeding	-			
Oral presentation	Shanmugam, PS, SV Krishnamoorthy, P Jayamani, et al. Tamil Nadu Agricultural University, Coimbatore Efficacy of Seed treatment Insecticides against Stem fly and Sucking Pest Complex in Pulses	Aswin Reddy Chitlakala, Prachi Pandey, Durgadevi Athimoolam et al. National Institute of Plant Genome Research, New Delhi Drought attenuates the plant responses to multiple rhizospheric pathogens – a study based on dry root rot-associated disease complex in chickpea fields			

Oral presentation	Ravinder Singh and GK Taggar. ICAR-Indian Institute of Pulses Research, Kanpur <i>Larval Parasitization of Helicoverpa armigera (Hubner) by Campoplex chloridae Uchida in chickpea intercropped with linseed</i>	Priyanka Gupta, Khawla Aloui, Rhoifane Benhsain, et al. International Center for Agricultural Research in the Dry Areas, Rabat, Morocco <i>Evaluation of Grasspea Germplasm for Below-Ground Traits and its relationship with ODAP under Water-Limited Conditions</i>
Oral presentation	Manju Kohli, Gyan P Mishra, Hina Bansal, et al. ICAR - Indian Agricultural Research Institute, New Delhi <i>Genome-wide Association Studies for Earliness and MYMIV Resistance Governing loci in Mungbean (Vigna radiata L. Wilczek) using Genotyping by Sequencing Approach</i>	Narayan Singh, Vasudha Maurya, Ashutosh Sharma, et al. DAV University, Jalandhar <i>Biochemical, and histochemical analysis for screening of salt stress tolerance in Horse gram (Macrotyloma uniflorum) germplasm</i>
Oral presentation	Revanasidda, Murali Mohan, K. Soren, KR, et al. ICAR-Indian Institute of Pulses Research, Kanpur <i>Diversity and distribution of bruchid species infesting edible stored pulses in India</i>	Nagendra Kumar Kaushik, Ravi Gupta, Neha Kaushik, et al. Plasma Bioscience Research Center, Kwangwoon University, Seoul, South Korea <i>Plasma technologies for green environment and smart agriculture methods</i>
Rapid fire presentation	Jyoti Singh and Dharmendra Pratap. Chaudhary Charan Singh University, Meerut <i>Antifungal efficacy of green synthesized zinc oxide nano particles against the stem rot of legumes</i>	Khushwant B Choudhary, Ramavtar Sharma, et al. ICAR-Central Arid Zone Research Institute, Jodhpur <i>Crafting Genetic Variability for Refined Moth Bean Plant Type Suitable for Hot Arid Climate through Mutagenesis</i>
Rapid fire presentation	R. Jagadeeswaran, Aravind Kumar Konda, Sujayanand GK et al. ICAR-Indian Institute of Pulses Research, Kanpur <i>De novo assembly, structural and functional annotation of the nematode egg parasitic fungus, Purpureocillium lilacinum strain Indian Institute of Pulses Research-PI-1</i>	Vaibhav Kumar, Kalpana Tewari, Rinki Devi, et al. ICAR-Indian Institute of Pulses Research, Kanpur <i>Phytohormones response to heat stress in chickpea</i>
Rapid fire presentation	Mahatma Lalit and Harshalkumar P Patel. Navsari Agricultural University, Navsari <i>Begomoviruses: Are they seed-borne or seed-transmitted viruses?</i>	Umashankar, C Bharadwaj, Neeraj Kumar, et al. ICAR-Indian Agricultural Research Institute, New Delhi, <i>Hydroponic aided evaluation of chickpea (Cicer arietinum L.) genotypes for high aluminium stress tolerance</i>
Rapid fire presentation	Nishmitha K, Rakesh Singh, S C Dubey, et al. ICAR- Indian Agricultural Research Institute, New Delhi <i>Molecular cloning and in-silico characterization of novel resistance gene analogue from lentil against Fusarium wilt</i>	

Tea and Poster session: 1100 -1130 hrs

Lunch: 1300 – 1400 hrs

Valedictory Session and AGM of ISPRD: 1400 – 1600 hrs.

Day 4: 13.02.2023 (Monday)

Satellite Meeting: IMIN-2 network meeting