

ICAR-Indian Institute of Wheat and Barley Research, Karnal

Agenda for AICRP training

Capacity Building to Improve Efficiency of AICRP on Wheat and Barley

Duration: March 03-09, 2021

Mode: Virtual through Zoom

Day-1 (March 3, 2021)		
Inaugural Session		
10.00-10.05	Welcome & Course Orientation	Dr. Gyanendra Singh
10.05 -10.25	Address by the Chief Guest	Dr. GP Singh, Director, IIWBR, Karnal
10.25 -10.30	Vote of Thanks	Dr. BS Tyagi
Wheat Improvement		
10.30 – 11.15	Gene editing and its regulation	Prof. BD Singh, BHU- Varanasi
11.15 – 12.00	Highlights of AICRP: Past, present and future	Dr. Gyanendra Singh
12.00 – 13.00	Yield Trials: Coding, constitution, conduction and monitoring	Drs. BS Tyagi & Satish Kumar
Lunch 13:00-14:00		
14.00 - 15.00	<i>Practical:</i> Yield trial layout plan, data recording in AICRP at IIWBR	Drs. SK Singh, Vikas Gupta and Hanif Khan
Day-2 (March 4, 2021)		
Wheat Improvement		
10.00 – 11.00	Hybridization and generation handling strategy for an efficient wheat breeding programme	Dr. NS Bains, Director Research, PAU- Ludhiana
11.00 – 12.00	Genetic resource management, DUS testing and pre-breeding	Drs. Arun Gupta & Sindhu Sareen
12.00 - 12:30	<i>Practical:</i> Germplasm regeneration and safe handling	Dr. Charan Singh
12.30 -13.00	Revisiting field designs and statistical analysis	Drs. Ajay Verma
Day-3 (March 5, 2021)		
Wheat Improvement		
10.00 - 11.00	Biotechnology and genomics for wheat breeding: past, present and future	Prof. PK Gupta CCSU Meerut
11.00 - 12.00	Wheat quality parameters and their importance	Drs. Sewa Ram & OP Gupta
12.00 - 13.00	<i>Practical:</i> Quality analysis and recording of key quality traits	Drs. Sunil Kumar & Vanita Pandey
Lunch 13.00-14.00		
14.00 - 15.00	Nucleus & Breeder Seed production programme of wheat & barley	Drs. AK Sharma, CN Mishra & UR Kamble

Day 4 (March 6, 2021)		
Barley Improvement		
10.00 – 10.45	Breeding priorities, testing system and quality analysis methodologies in Barley	Drs. RPS Verma & Dinesh Kumar
10.45 – 11.30	Resource management options in Barley	Dr. AS Kharub
Resource Management		
11.30 – 12.15	Agronomy trials in AICRP, conservation agriculture and crop diversification opportunities	Drs. SC Tripathi and Anil Khittal
12.15 – 13.00	Weed and water management in rice-wheat system	Drs. RS Chhokar and RP Meena
Lunch: 13.00- 14.00		
14.00 - 15.00	<i>Practical:</i> Resource Management options for AICRP	Drs. RS Chhokar and Neeraj Saini
Day 6 (March 8, 2021)		
International Collaboration, Biotechnology and Plant Physiology		
10.00 - 11.00	How CIMMYT and India continue to learn from one another in wheat improvement amidst widening challenges	Dr. AK Joshi, CIMMYT-India
11.00- 12.00	Marker Assisted Breeding: Pre-requisites and prospects	Drs. Ratan Tiwari & Pradeep Sharma
12.00 - 13.00	Efforts on bioinformatics, CRISPR-Cas and physiological aspects of wheat improvement	Drs. Rajender Singh, Mamrutha HM & Rinki
Lunch 13.00 – 14.00		
14.00 - 16.00	<i>Practical:</i> DNA extraction, electrophoresis and MAS	Drs. Satish Kumar & Sonia Sheoran
Day 7 (March 9, 2021)		
Plant Protection & Quality Improvement		
10.00 - 10.45	Rust pathotyping and pest management in wheat	Drs. SC Bhardwaj & Pramod Prasad
10.45 - 11.30	Role of disease and pest screening in AICRP	Drs. Sudheer Kumar & Poonam Jasrotia
11.30 - 12.00	Breeding durable rust resistance: achievements & prospects	Dr. J Kumar
12.00 - 13.30	<i>Practical:</i> Disease development and recording	Drs. PL Kashyap & Ravindra Kumar
Lunch: 13.30- 14.30		
14.30-15.00	Valedictory Session	
	Brief learnings of training and feedback	All Participants
	Address by the Chief Guest	Dr. GP Singh, Director, IIWBR, Karnal
	Vote of Thanks	Dr. BS Tyagi

Zoom support: Sh. P Chandrababu; **Technical support** Yogesh Sharma