

## Tentative Agenda for AICRP Training

on

**“Capacity Building to Improve Efficiency of AICRP on Wheat and Barley”**

**Organizer: ICAR-IIWBR, Karnal**

**Duration: March 03-09, 2021**

**Mode: Virtual through Zoom**

<b>Day-1 (March. 3, 2021)</b>		
<b>Inaugural Session</b>		
<b>10.10– 10.30</b>	<b>Welcome &amp; Course Orientation</b>	<b>Dr. Gyanendra Singh</b>
	<b>Address by the Chief Guest</b>	<b>Dr. GP Singh, Director, IIWBR, Karnal</b>
	<b>Vote of Thanks</b>	<b>Dr. BS Tyagi</b>
<b>Crop Improvement</b>		
10.30 – 11.15	How CIMMYT and India continue to learn from one another in wheat improvement amidst widening challenges	Dr. AK Joshi CIMMYT-India
11.15 – 11.45	Highlights of AICRP: Past, present and future	Dr. GP Singh Director, IIWBR, Karnal
11.45 – 12.15	Wheat breeding: Priorities, methodologies and target traits	Drs. Gyanendra Singh & Gopalareddy
12.15- 13:00	AICRP yield trials: Coding, constitution, conduction and monitoring	Drs. BS Tyagi, Karnam Venkatesh & Vikas Gupta
<b>Day-2 (March 4, 2021)</b>		
<b>Crop Improvement</b>		
10.00 – 11.00	Hybridization and generation handling strategy for an efficient wheat breeding programme	Dr. NS Bains, Director Research, PAU, Ludhiana
11.00 – 11.45	Germplasm enhancement and DUS testing	Drs. Arun Gupta & Charan Singh
11.45 – 12.15	Pre-breeding and wide hybridization	Drs. Sindhu Sareen & BS Tyagi
12:15- 13:00	Hybrid wheat : Achievements and prospects	Drs. SK Singh & Satish Kumar
<b>Lunch: 13:00- 14:00</b>		
14:00- 15:00	<i>Practical:</i> Germplasm regeneration and safe handling	Drs. Arun Gupta & Charan Singh
<b>Day-3 (March 5, 2021)</b>		
<b>Crop Improvement</b>		
10.00- 11.00	Biotechnology and genomics for wheat breeding: Past, present and future	Prof. PK Gupta, CCSU, Meerut
11.00- 11.45	Seed dynamics for faster replacement	Drs. AK Sharma, CN Mishra & UR Kamble
11.45- 12.15	Improving input use efficiency	Drs. K Venkatesh & Rinki
12:15- 13:00	Revisiting field designs and statistical analysis	Drs. Ajay Verma, Hanif Khan
<b>Lunch: 13:00- 14:00</b>		
14:00- 15:00	<i>Practical:</i> Seed production, certification and seed regulations	Drs. AK Sharma, CN Mishra & UR Kamble

<b>Day 4 (March 6, 2021)</b> <b>Crop Protection</b>		
10.00 – 10.30	Rust pathotyping and gene postulation	Drs. SC Bhardwaj & Pramod Prasad
10.30 – 11.00	Importance of disease and pest screening in AICRP	Drs. Sudheer Kumar & Poonam Jasrotia
11.00 – 11.30	Breeding for durable rust resistance: Achievements & prospects	Dr. J Kumar
<b>Resource Management</b>		
11.30 – 12.15	Agronomy trials under AICRP, crop diversification and opportunities in CA	Drs. SC Tripathi and Anil Khippal
12.15 – 13:00	Weed and water management options in wheat	Drs. RS Chhokar and RP Meena
<b>Lunch: 13:00- 14:00</b>		
14:00-15:00	<i>Practical:</i> Resource management options for AICRP	Drs. RS Chhokar and Neeraj Saini
15:00-16:00	<i>Practical:</i> Disease development and recording	Drs. PL Kashyap & Ravinder Kumar
<b>Day 5 (March 8, 2021)</b> <b>Biotechnology and Plant Physiology</b>		
10.00- 11.00	Gene editing and its regulation	Prof. BD Singh, BHU- Varanasi
11.00- 11.30	Engaging genomic and genetic resources for further genetic gains in wheat	Dr. Ratan Tiwari
11.30- 12.00	Marker identification and utilization in MAS for rapid varietal improvement	Drs. Satish Kumar & Sonia Sheoran
12:00- 12:30	Basics of bioinformatics and understanding role of regulatory genomic regions	Drs. Rajender Singh & Pradeep Sharma
12.30- 13.00	Physiology in the changing perspective towards wheat improvement	Drs. Mamrutha HM & Rinki
<b>Lunch: 13:00- 14:00</b>		
14:00-16:00	<i>Practical:</i> DNA extraction, gel making and MAS	Drs. Satish Kumar & Sonia Sheoran
<b>Day 7 (March 9, 2021)</b> <b>Barley Improvement</b>		
10.00 – 10.30	Breeding priorities and testing system in Barley	Dr. RPS Verma
10.30 – 11.00	Barley quality analysis, traits and methodologies	Dr. Dinesh Kumar
11.00 – 11.30	Resource management options in Barley	Dr. AS Kharub
<b>Quality Improvement</b>		
11.30 – 12.15	Wheat quality parameters and their importance	Drs. Sewa Ram & OP Gupta
12.15 – 13:00	<i>Practical:</i> Quality analysis and recording of key quality traits	Drs. Sunil Kumar & Vanita Pandey
<b>Lunch: 13:00- 14:00</b>		
14:00-15:00:	<b><i>Valedictory session</i></b>	
	<b>Brief learnings and feedback</b>	<b>All Participants</b>
	<b>Address by the Chief Guest</b>	<b>Dr. GP Singh, Director, IIWBR, Karnal</b>
	<b>Vote of Thanks</b>	<b>Dr. BS Tyagi</b>

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