

**PLANT GERMPLASM REGISTRATION COMMITTEE
(Indian Council of Agricultural Research)
ICAR-National Bureau of Plant Genetic Resources (NBPGR), New Delhi**

**Proceedings of the
XXXXIVth Meeting of Plant Germplasm Registration Committee(PGRC)
Held at ICAR-NBPGR, New Delhi (June 30, 2021)**

The XXXXIVth meeting of PGRC was held on **June 30, 2021** from 03:00 hrs. onwards in virtual mode at ICAR-NBPGR, New Delhi. The following members/invitees were present:

1.	Dr.TR Sharma	DDG (CS), Indian Council of Agricultural Research, New Delhi	Chairman
2.	Dr. DK Yadava	ADG (Seeds), Indian Council of Agricultural Research, New Delhi	Member
3.	Dr. YP Singh	ADG (F&FC), Indian Council of Agricultural Research, New Delhi	Member
4.	Dr. RK Singh	ADG (CC), Indian Council of Agricultural Research, New Delhi	Member
5.	Dr. Sanjeev Gupta	ADG (O&P), Indian Council of Agricultural Research, New Delhi	Member
6.	Dr. V Pandey	ADG (Hort.-I), Indian Council of Agricultural Research, KAB-II, Pusa Campus, New Delhi	Member
7.	Dr. BK Pandey	ADG (Hort.-II), Indian Council of Agricultural Research, KAB-II, Pusa Campus, New Delhi	Member
8.	Dr. Kuldeep Singh	Director, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Member
9.	Dr. GP Singh	Director, Indian Institute of Wheat and Barley Research, Karnal, Haryana	Member
10.	Dr. NP Singh	Director, ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh	Member
11.	Dr. KV Prasad	Director, ICAR-Directorate of Floricultural Research, Pune, Maharashtra	Member
12.	Dr. TK Behera	Director, ICAR-Indian Institute of Vegetable Research, Varanasi, Uttar Pradesh	Member
13.	Dr. M. Sujatha	Director (Acting), ICAR-Indian Institute of Oilseeds Research Rajendranagar, Hyderabad, Telangana	Member
14.	Dr. D. Subramaniam	Director (Acting), ICAR-Indian Institute of Rice Research, Hyderabad, Telangana	Member
15.	Dr Manoj Kumar	Director (Acting), ICAR-Central Potato Research Institute Shimla, Himachal Pradesh	Member
16.	Dr. Shiv Sewak	Project Coordinator (Acting), AICRP on MULLaRP, ICAR- IIPR, Kanpur, Uttar Pradesh	Member
17.	Dr. BC Patra	Representative of Director, ICAR-National Rice Research Institute, Cuttack, Odisha	Member

18.	Dr. Arun Gupta	ICAR-Indian Institute of Wheat and Barley Research, Karnal, Haryana	Invitee
19.	Dr. RM Sundaram	ICAR-Indian Institute of Rice Research, Hyderabad, Telangana	Invitee
20.	Dr. Raj Kumar	ICAR-Central Potato Research Station, Jalandhar, Punjab	Invitee
21.	Dr. Ashok Kumar	Head (Acting), Division of Germplasm Evaluation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Special invitee
22.	Dr. Anjali Kak Koul	Principal Scientist, Division of Germplasm, Conservation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Special invitee
23.	Dr. Veena Gupta	Head (Acting), Division of Germplasm Conservation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Member Secretary

The XXXIVth meeting of Plant Germplasm Registration Committee was held under the Chairmanship of Dr. TR Sharma, DDG (CS) in virtual mode. Dr. Kuldeep Singh, Director, ICAR-NBPGR welcomed the Chairman and all the experts and appreciated the efforts of the committee in streamline the proposals and conducting the meeting at quarterly intervals. Dr. TR Sharma said that Plant Germplasm Registration is an important committee of ICAR promoting the registration and conservation of trait specific germplasm.

The minutes of the XXXIIIrd meeting of PGRC were adopted as such after the confirmation of the Chairman.

Following recommendations emerged during the discussion in PGRC meeting:

- Action to be taken on the recommendations of the XXXIIIrd meeting which could not be undertaken because of the lockdown.
- Proceeding of PGRC should be sent to all other ICAR institutes to promote utilization of trait specific germplasm in their breeding programmes.

A total of 43 proposals were received for registration. Out of these 24 (where comments were received and completed in all respect) were considered for registration along with comments received from the respective PD/PC or experts to ascertain their unique feature (s) and potential values, which formed the basis for registration. Each proposal was discussed in detail and recommendations of PGRC for each proposal has been summarized in the enclosed table. Finally, 21 proposals belonging to nine species were approved for registration and three were deferred for want of additional data. Next meeting of PGRC meeting will be held in September 2021.

The meeting ended with vote of thanks by Dr. Veena Gupta, Member-Secretary.

(Veena Gupta)
Member Secretary, PGRC
ICAR-National Bureau of Plant Genetic Resources
Pusa Campus, New Delhi-110 012

(TR Sharma)
DDG (CS) & Chairman, PGRC
Indian Council of Agricultural Research
Krishi Bhawan, New Delhi-110 001

FILE NO.CS.11/8/2020-SEED

XXXXIVth Germplasm Registration Committee Meeting, June 30, 2021:
Summary of New Proposals with Recommendations

S. No.	App. No./ National Id.	Other Identity	Crop/ Botanical Name	Pedigree	Potentially valuable features	Corresponding author	Recommendations of PGRC
Cereals							
1.	20256; IC0637547 INGR21091	Introgression lineIL 274	Rice/ <i>Oryza sativa</i>	Pusa44/O. <i>glaberrima</i> IRGC102600b//3*P usa44	Bacterial Blight Resistance. The genetic stock carries bacterial blight resistance gene xa-45 (t) from <i>Oryza glaberrima</i> accession IRGC 102600b on the long arm of chromosome 8 of rice. Agronomically good plants with apparently no linkage drag.	Dr. KumariNeelam, PAU, Ludhiana, Punjab	Recommended
2.	21046; IC0597237 INGR21092	IC0597237	Rice/ <i>Oryza sativa</i>	Pure line selection from landrace Minatik Charang.	High grain protein content (12-14%).	Dr. Torit B. Bagchi, ICAR-NRRI, Cuttack, Odisha	Recommended
3.	21087; IC0 639794 INGR21093	Phougak (D82)	Rice/ <i>Oryza sativa</i>	Landrace	Tolerance to sheath blight. Resistance to neck blast. Resistance to leaf blast.	Dr. Jyothi Badri, ICAR-IIRR, Hyderabad, Telangana	Recommended
4.	21061; IC0638868 INGR21094	DT-RIL110	Wheat/ <i>Triticum aestivum</i>	Inbred line	Drought tolerance.	Dr. Sonia Sheoran, ICAR-IIWBR, Karnal, Haryana	Recommended
5.	21042; IC0638872	pau 16073	Wheat/ <i>Triticum aestivum</i>	BC1F9PDW274/ <i>T. boeoticum</i> acc.pau4992 // PDW274	Pau 16073 has high grain Fe (53.8ppm) and Zn (89.5 ppm)	Dr. Parveen Chhuneja, PAU, Ludhiana, Punjab	Deferred: Should generate one more year data at multilocations including recently developed high Fe/Zn lines.

FILE NO.CS.11/8/2020-SEED

6.	21075; IC0638871	pau 16074	Wheat/ <i>Triticum aestivum</i>	BC1F10 PDW274 / <i>T.boeoticum</i> acc. Pau 42549 // PDW 274	pau 16074 has high grain Fe (46.0ppm) and Zn (91.2 ppm).	Dr. Parveen Chhuneja, PAU, Ludhiana, Punjab	Deferred: Should generate one more year data at multilocations including recently. developed high Fe/Zn lines
7.	21077; IC0638870	pau16072	Wheat/ <i>Triticum aestivum</i>	BC1F10 <i>T.durum</i> var Aconchi89/ <i>Triticum</i> <i>monococcum</i> // <i>T.durum Aconchi</i> 89	pau 16072 has high grain Fe 67.3ppm and Zn 46.7ppm	Dr. Parveen Chhuneja, PAU, Ludhiana, Punjab	Deferred: Should generate one more year data at multilocations including recently developed high Fe/Zn lines.
8.	21078; IC0638869 INGR21095	pau16071	Wheat / <i>Triticum</i> <i>aestivum</i>	BC3F10 <i>T. durum</i> / <i>Ae. tauschii</i> acc. pau 14195//4* WH542	pau16071 has leaf rust resistance (LrT) and gluconess (IwT)	Dr. Parveen Chhuneja, PAU, Ludhiana, Punjab	Recommended
9.	21079; IC0638873 INGR21096	pau 16068	Wheat/ <i>Triticum</i> <i>aestivum</i>	BC2F2 PBW114/ <i>T.boeoticum</i> acc. Pau 5088//3* PBW621	Pau 16068 is resistant to powdery mildew. Two powdery mildew resistance genes PmTb7A.1 and PmTbA.2 mapped on chromosome 7AL.	Dr. Parveen Chhuneja, PAU, Ludhiana, Punjab	Recommended
10.	21098; IC0252458 INGR21097	IC252458	Wheat/ <i>Triticum</i> <i>aestivum</i>	Germplasm collection	Consist of three minor/adult plant rust resistance genes (APR) for leaf rust, <i>Lr34+</i> (<i>Lr34</i> / <i>Sr57/Yr18</i> / <i>Pm38/Ltn1</i>), <i>Lr46+(Lr46/Sr58/Yr29/Pm39</i> / <i>Ltn2)</i> and <i>Lr67+</i> (<i>Lr67/Yr46/Sr55/Pm46/Ltn3</i>) which is linked to stem, stripe and powdery mildew resistance genes. Resistant to the prevailing leaf rust pathotypes of India due to the synergistic combination of minor leaf rust	Dr. Vikas VK, ICAR-IARI RS, Wellington, Tamil Nadu	Recommended

FILE NO.CS.11/8/2020-SEED

					resistance genes. Presence of leaf tip necrosis (LTN) on the flag leaves, a phenotypical marker that is linked to adult plant resistance (APR) genes.		
11.	21099; IC0290150 INGR21098	IC290150	Wheat/ <i>Triticum aestivum</i>	Germplasm collection	Consist of three minor/adult plant rust resistance genes (APR) for leaf rust, <i>Lr34+</i> (<i>Lr34/ Sr57/Yr18/ Pm38/Ltn1</i>), <i>Lr67+(Lr67/Yr46/Sr55/Pm46/ Ltn3)</i> and <i>Lr68</i> which is linked to stem, stripe and powdery mildew resistance genes. Resistant to the prevailing leaf rust pathotypes of India due to the synergistic combination of minor leaf rust resistance genes. Presence of leaf tip necrosis (LTN) on the flag leaves, a phenotypical marker that is linked to adult plant resistance (APR) genes.	Dr. Vikas VK, ICAR-IARI RS, Wellington, Tamil Nadu	Recommended
12.	21100; IC0279875 INGR21099	IC279875	Wheat/ <i>Triticum aestivum</i>	Germplasm collection	Consist of two minor/adult plant rust resistance genes (APR) for leaf rust, <i>Lr34+</i> (<i>Lr34/ Sr57/Yr18/ Pm38/Ltn1</i>) and <i>Lr68</i> which is linked to stem, stripe and powdery mildew resistance genes. Resistant to the prevailing leaf rust pathotypes of India due to the synergistic combination of minor leaf rust resistance genes. Presence of leaf tip	Dr. Vikas VK, ICAR-IARI RS, Wellington, Tamil Nadu	Recommended

FILE NO.CS.11/8/2020-SEED

					necrosis (LTN) on the flag leaves, a phenotypical marker that is linked to adult plant resistance (APR) genes.		
13.	21041; IC0638874 INGR21100	DWRB 206 (Tested as DWRNB 17)	Barley/ <i>Hordeum vulgare</i>	ZIGZIG/4/TOCTE/ HIGO/LINO/3/PET UNIA1	Resistant to stripe rust at APR under artificial inoculation in naked barley.	Dr. Jogendra Singh, ICAR-IIWBR, Karnal, Haryana	Recommended
14.	21002; IC0638875 INGR21101	BCLA11-6	Barley/ <i>Hordeum vulgare</i>	BCU390/Alfa93	Corn Leaf Aphid Resistance Genotype.	Dr. Rekha Malik, ICAR-IIWBR, Karnal, Haryana	Recommended
15.	21044; IC0638876 INGR21102	BCLA3	Barley/ <i>Hordeum vulgare</i>	EB921/Alfa93	Corn Leaf Aphid Resistance Genotype	Dr. Rekha Malik, ICAR-IIWBR, Karnal, Haryana	Recommended
Grain legumes							
16.	20131; IC0340947 INGR21103	IC340947	French Bean/ <i>Phaseolus vulgaris</i>	Selection from DARL/BK/1136/	Resistant to BCMV disease.	Dr. Basavaraja T ICAR-IIPR Kanpur, Uttar Pradesh	Recommended
17.	21069; IC0639796 INGR21104	IPM 604-1-7	Mung Bean / <i>Vigna radiata</i>	IPM99-125/ Sona Mung	Yellow seed coat colour. Early maturity (55 days).	Dr Aditya Pratap, ICAR-IIPR, Kanpur, Uttar Pradesh	Recommended
Vegetables							
18.	21065; IC0638877 INGR21105	S-208	Cabbage/ <i>Brassica oleracea</i> var. <i>capitata</i>	Single plant selection from Pusa Drum Head, an OP variety of cabbage.	Self-Incompatible (SI) line. Flat compact head. Shorter stalk length.	Dr. Chander Parkash, ICAR-IARI RS, Katrain, Himachal Pradesh	Recommended
19.	21071; IC0638878 INGR21106	S-681	Cabbage/ <i>Brassica oleracea</i> var. <i>capitata</i>	Single plant selection from Golden Acre, an OP variety of cabbage	Self-Incompatible (SI) line. Round and very compact head. Smaller plant spread and height with minimum number of non-wrapper leaves	Dr. Chander Parkash, ICAR-IARI RS, Katrain, Himachal Pradesh	Recommended

FILE NO.CS.11/8/2020-SEED

Oilseeds							
20.	21022; IC0638879 INGR21107	IPC-21 (DPC-21)	Castor/ <i>Ricinus communis</i>	DPC-9 x DCS-45	Pistillate line (female line) with good combining ability. Normal plant type with elongated internodes, divergent branching, flat leaves	Dr. C Lavanya ICAR-IIOR Hyderbad, Telangana	Recommended
Ornamentals							
21.	21031; IC0638881 INGR21108	DFR C-1	Chrysanthemum/ <i>Chrysanthemum morifolium</i>	Half-sib selection from the variety "PAU D-1"	Florets spatulate in shape. Long peduncle (8-12 cm).	Dr. Tarak Nath Saha, ICAR-DFR Pune, Maharashtra	Recommended
22.	21053; IC0638882 INGR21109	DFR C-2	Chrysanthemum/ <i>Chrysanthemum morifolium</i>	Half-sib selection from the variety "PAU D-1".	Its flowers possess mild fragrance. The plant bears cream white coloured (RHS NN155B, White Group) ligulate type flowers.	Dr. Tarak Nath Saha, ICAR-DFR Pune, Maharashtra	Recommended
23.	21054; IC0638883 INGR21110	DFR C-3	Chrysanthemum/ <i>Chrysanthemum morifolium</i>	Half-sib selection from the variety "PAU A-64"	It is spray chrysanthemum and suitable for pot mums and garden decoration. The plant bears attractive yellow coloured (RHS colour 7C-Yellow group) single type flower. Plant gives an appearance of leaflessness and dome shape during flowering"	Dr. Tarak Nath Saha, ICAR-DFR Pune, Maharashtra	Recommended
Tuber							
24.	21052; IC0638884 INGR21111	N/9-42	Potato/ <i>Solanum tuberosum</i>	JN 2207 x KufriPukhraj	Better nitrogen use efficiency than popular cultivars.	Dr Raj Kumar ICAR-CPRI RS, Jalandhar, Punjab	Recommended

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