Second HTPG Workshop on Forward Breeding for Crop Improvement

December 4–6, 2017
ICRISAT, Patancheru, Telangana, India

Technical Program

Day 1 – Monday, December 4, 2017

10:30–10:45  Hotel pickup and travel to ICRISAT

12:00–13:00  Pre-Meeting Lunch  204 Banquet Hall

13:00–13:30  Registration (212 Foyer)

Session I  Pre-workshop (Parallel sessions)

Session I (a)  (Special invitees only) – iHub Conference Room
13:30–16:00  HTPG technical steering committee meeting & Eng Hwa Ng
             EiB Module 3 EAG meeting Mike Olsen

Session I (b)  212 Conference Room (Open to all)
13:00–14:45  Hands-on Demo on Barcoding and Sampling Trevor Rife et. al.
14:45–15:15  Tea/Coffee  212 Foyer
15:15–15:45  Hands-on Demo on Barcoding and Sampling Abhishek Rathore
15:45  Move to Ralph W Cummings Auditorium

(Venue: Ralph W Cummings Auditorium)
16:00–17:30  Inaugural Session
             Welcome remarks Rajeev Varshney
             Opening remarks by ICRISAT DG David Bergvinson
             Redesigning breeding pipelines to apply high-throughput genotyping to increase rate of genetic gains Gary Atlin
             Excellence in Breeding (EiB) platform- via WEBEX Michael Quinn

Group Photo

18:00–19:00  Cocktail social  IMOD Plaza
19:00–21:00  Dinner

Day 2 – Tuesday, December 5, 2017
(Venue: PTTC Conference Center)
07:00–07:15  Hotel pickup and travel to ICRISAT
08:00–08:30  Registration

Session II  HTPG Updates, Case Studies and Industry Perspectives
08:30–10:00  Chair: Ponnusamy Umashankar
08:30–09:00  HTPG Updates  Eng Hwa Ng
09:00–10:00 Industry Perspectives
Mahindra Agri Solutions Ltd
Pawan Khera
Syngenta
Suresh Kadaru
Pioneer Hi-Bred
Raman Babu

10:00–10:30 Coffee Break

Session III HTPG Case Studies
Chair: Ramanathan Vairamani
10:30–12:00 Maize – Quality control analysis using low-density markers and line profiling against/ for MSV and MLN resistance
Julius Sserumaga
Rice – IRRI-TRB and HTPG initiatives for modernizing rice breeding in India
Wricha Tyagi
Cassava – High throughput SNP markers for rapid allele mobilization and routine QC fingerprinting
Ismail Rabbi

12:00–13:30 Lunch Break (Sampling and barcoding Demo booth)
PTTC Area

Session IV Crop Center Wise Updates
Chair: Eng Hwa Ng
13:30–14:45 Crop & center update (Feedback and projections)- 10 mins each
CIMMYT - Maize & Wheat
Susanne Dreisigacker
IRRI – Rice
Tobias Kretzschmar
CIP – Potato
Hannele Lindqvist-Kreuze
ICRISAT – Groundnut, Pearl Millet, Chickpea, Pigeonpea
Janila Pasupuleti
IITA – Maize, Cassava, Cowpea
Melaku Gedil
AfricaRice – Rice
Kofi Isaac Bimpong
CIAT – Common bean
Bodo Raatz
14:45–15:00 Discussions

15:00–15:30 Coffee Break

Session V Special topics
Chair: Manish Roorkiwal
15:30–15:50 EiB Module 3- Genotyping and sequencing
Mike Olsen
15:50–16:10 HTPG- GOBI Integration
Himabindu Kudapa
16:10–16:30 Genotyping QC in breeding program
John Carlos Ignacio
16:30–16:50 Linking HTPG DNA sampling to BMS and genomic databases
Abhishek Rathore
16:50–17:00 Second day wrap-up

18:30–21:00 Dinner
204 Banquet Hall

Day 3 – Wednesday, December 6, 2017
(Venue: PTTC Conference Center)
07:00–07:15 Hotel pickup and travel to ICRISAT

Session VI Vendor Updates and Brainstorming
Chair: Rajeev Varshney
08:30–09:00 Intertek report
Patrik Stolt et al.
09:00–10:00  Breakout - Part I*
  Group 1: New client engagement strategy for HTPG  Eng Hwa Ng
  Group 2: Implementation of routine QC pipeline  Sudha Nair

10:00–10:30  Coffee Break

10:30–12:00  Breakout - Part II*
  Group 1: Decision support tools  Manish Roorkiwal
  Group 2: Sampling and Logistics  John Carlos Ignacio
  Group 3: Breeding pipeline Integration  Himabindu Kudapa

12:00–13:00  Lunch Break

Session VII  Breakout reports (10 min each)
13:00–13:30  Breakout report back (Part I)
13:30–14:15  Breakout report back (Part II)
14:15–15:00  Wrap-ups and feedbacks  Mike Olsen et al.
             EiB, CGIARs, NARS, etc
15:00–15:30  Closing Remarks  Peter Carberry
             Vote of Thanks  Himabindu Kudapa

15:30–16:00  Coffee Break

17:00–18:00  Inaugural Session for 10th Anniversary of CEG
             (Venue: Ralph W Cummings Auditorium)

18:30  Cocktail Dinner
       (Venue: IMOD Plaza)

* Refer to name tag for breakout group assignments