Sunday, June 24
8:00 am – 6:00 pm: Registration open
9:00 am – 5:30 pm: IWGSC workshop
6:00 – 9:00 pm: ITMI-NWGC Reception on the Patio

Monday, June 25
8:00 am – 6:00 pm: Registration open
7-8:30 am: breakfast buffet
8:30-8:55 am: Opening welcome – Justin Faris, Organizing Committee Chair
8:55-9:00 am: Introduction of Keynote Speaker – Shahryar Kianian
9:00-10:00 am: Keynote presentation
  • Professor German Spangenberg, Executive Director Biosciences Research Division, Department of Primary Industries, Victorian AgroBiosciences Centre, Bundoora, Victoria, Australia
    o “Applied Systems Biology: From Biomass to Bioeconomy”
10:00-10:30 am: coffee break
10:30 -12:00 pm: Session I “Genome Sequencing and Utilization”
  -Chairs: Jaroslav Dolezel and Nils Stein
  • Invited speaker: Tim Close – University of California-Riverside, CA, USA
    o “Sequences of 14,600 ‘Gene-Bearing’ MTP BACs of Morex Barley”
  • Invited speaker: Klaus Mayer – Institute of Bioinformatics & Systems Biology, MIPS, Neuherberg, Germany
    o “Same, same but different: complementary analytical approaches highlight the different shades of polyploidy in rye and wheat”
  • Michael Abrouk – INRA-UBP, UMR GDEC, Clermont-Ferrand, France
    o “Grass microRNA gene paleohistory unveils new insights into gene dosage balance in subgenome partitioning after whole genome duplication”
12:00-1:30 pm: lunch
1:30-3:00pm: Session I continued
  • Gary Muehlbauer – University of Minnesota, St. Paul, MN, USA
    o “Comparative genomic hybridization reveals structural diversity in barley”
  • Jonathan Wright – The Genome Analysis Centre, Norwich, UK
    o “Kmer-based contamination screening in the wheat chromosome survey sequencing project”
3:00-3:30 pm: break

3:30-5:00 pm: Session II “Historical Perspectives”
- Chair: Bikram Gill
  - Invited speaker: Cal Qualset – University of California, Davis, CA, USA
    - “ITMI: The early years and impacts on Triticeae research”
  - Invited speaker: Rudi Appels – Murdoch University, Perth, Western Australia
    - “An Australian perspective on the early days of the ITMI”

5:00-7:00 pm: poster session/social event

Tuesday, June 26
8:00 am – 12:00 pm: Registration open
7-8:30 am: breakfast buffet

8:30-10:00 am: Session III “Utilizing Triticeae Resources and Diversity”
- Chairs: Wanlong Li and Aaron Beattie
  - Invited speaker: Steven Xu – USDA-ARS, Fargo, ND, USA
    - “DNA marker-assisted chromosome engineering for efficient alien gene introgression of stem rust resistance in wheat”
  - Invited speaker: Takashi Iimure – Sapporo Breweries Ltd., Gunma, Japan
    - “Barley germplasm and malting barley breeding”
  - Jaroslav Doležel – Institute of Experimental Botany, Olomouc, Czech Republic
    - “Comparative sequence analysis of chromosomes isolated from two wild relatives of wheat (Aegilops umbellulata and Ae. biuncialis)”

10:00-10:30 am: coffee break

10:30 -12:00 pm: Session III continued
  - Eduard Akhunov – Kansas State University, Manhattan, KS, USA
    - “Non-parametric tests reveal multiple selection events in the wheat genome”
  - Alessandro Tondelli – Genomics Research Centre, Fiorenzuola D’Arda, PC, Italy
    - “A genome-wide survey of leaf stripe resistance in a low-structured barley association panel”
  - Sylvie Coutier – Agriculture and Agri-Food Canada, Winnipeg, MB, Canada
    - “Haplotype diversity and evolutionary history of the Lr34 locus of a world wheat germplasm collection”

12:00-2:00 pm: lunch
2:00 pm: buses leave for Bagg Bonanza Farm  
3:00-5:00 pm: tours of Bagg Bonanza Farm  
5:00-7:00 pm: dinner at Bagg Bonanza Farm  
7:00-10:00 pm: barn dance at Bagg Bonanza Farm; music by “Unknown Cowboy”  
10:00 pm: buses return to Ramada

**Wednesday, June 27**  
8:00 am – 6:00 pm: Registration open  
7-8:30 am: breakfast buffet

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### 8:30-10:00 am: Session IV “Genetics and Genomics of Important Traits”  
**-Chairs: Liuling Yan and Takao Komatsuda**

- **Invited speaker: Robbie Waugh** – The James Hutton Institute, Dundee, Scotland
  - "Mother of FT and TFL1 represses wheat germination and has potential breeding applications to improve seed dormancy"

- **Invited speaker: Shingo Nakamura** – National Institute of Crop Science, Tsukuba, Ibaraki, Japan
  - "Mother of FT and TFL1 represses wheat germination and has potential breeding applications to improve seed dormancy"

- **Thorsten Schnurbusch** – Leibniz-Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany
  - "Barley’s triple spikelet meristem is controlled by Vrs4 (six-rowed spike 4)"

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### 10:00-10:30 am: coffee break

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### 10:30 -12:00 pm: Session IV continued

- **Miroslav Valárik** – Institute of Experimental Botany, Olomouc, Czech Republic
  - "Towards cloning the powdery mildew resistance gene QPm.tut-4A introgressed to bread wheat from T. militinae"

- **Ning Wang** – National Institute of Agrobiological Sciences, Tsukuba, Ibaraki, Japan
  - "Cleistogamy in the Triticeae: Genetic variation and its regulation"

- **Yong Gu** – USDA-ARS, WRRC, Albany, CA, USA
  - "Genetics and molecular evolution of a 3.1-Mb genomic region harboring both wheat prolamin and disease resistance gene families"

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12:00-1:30 pm: lunch

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### 1:30-3:00 pm: Session V “Young Triticeae Researchers”  
**-Chairs: Eduard Akhunov and Cristobal Uauy**

- **Invited speaker: Ana Maria Gonzales** – University of Minnesota, St. Paul, MN, USA
  - "Genetic provenance and genetic providence in a diverse crop"

- **Invited speaker: Christopher Burt** – John Innes Centre, Norwich, UK
  - "Molecular tools and genetic resources for eyespot resistance in wheat"

- **Filippo Bassi** – North Dakota State University, Fargo, ND, USA
  - "Wheat zapper, Illumina BSA, and radiation hybrids for synteny analysis of the scs region"
3:00-3:30 pm: break

3:30-5:00 pm: Session V continued
- Deepika Arora – North Dakota State University, Fargo, ND, USA
  - “Identification of a candidate barley stem rust susceptibility gene determining the recessive nature of Rpg4-mediated Ug99 resistance in barley”
- Alexandra Allen – University of Bristol, Bristol, UK
  - “Targeted re-sequencing of the wheat exome and the generation of public co-dominant single nucleotide polymorphism markers”
- Simen Sandve – Norwegian University of Life Sciences, Aas, Norway
  - “Molecular adaptation to cooler climates and ecological diversification of Pooideae”

5:00-7:00 pm: poster session/social event

7:00 pm: IWGSC Coordinating Committee Meeting

Thursday, June 28
7-8:30 am: breakfast buffet

8:30-10:00 am: Session VI “Physical Mapping and Map-Based Cloning – Young Researchers”
- Chair: Justin Faris
  - Tatiana Danilova – Kansas State University, Manhattan, KS, USA
    - “Physical mapping of the wheat and Triticeae genomes using single gene FISH”
  - Dina Raats – University of Haifa, Haifa, Israel
    - “Assembly of chromosome 1BS physical map and its utilization for positional cloning of disease resistance genes in wheat”
  - Vijay Tiwari – Oregon State University, Corvallis, OR
    - “High resolution mapping of areas of low recombination and polymorphism containing the hexaploid wheat loci Pis1 and C”

10:00-10:30 am: coffee break

10:30 -11:00 am: Session VI continued
- Severine Huni – University of Zürich, Zürich, Switzerland
  - “The rye gene Pm8 conferring resistance to wheat powdery mildew is a homologue of the wheat powdery mildew resistance gene Pm3”

11:00 -12:00 pm: Session VII “Genomics-Assisted Breeding”
- Chairs: Gina Brown-Guedira and Mark Sorrells
  - Invited speaker: Rollie Sears – Syngenta Seeds, USA
    - “Syngenta strategy for increasing yields in wheat”
- Invited speaker: Arron Carter – Washington State University, Pullman, WA, USA
  o “Use of genomic selection in 21st century wheat breeding”

12:00-1:30 pm: lunch

1:30-3:00 pm: Session VII continued
- Andrzej Kilian – Diversity Arrays Technology Pty Ltd, Canberra, Australia
  o “DArT and DArTseq genome profiling with relevant IT support”
- Gilles Charmet – INRA-UBP, UMR GDEC, Clermont-Ferrand, France
  o “Usefulness of genomic selection in wheat breeding programmes”
- Gina Brown-Guedira – USDA-ARS, Raleigh, NC, USA
  o “Development of gene specific KASP markers: a toolbox for marker-assisted selection in wheat”

3:00-3:30 pm: break

3:30-4:00 pm: Session VII continued
- Curt McCartney – Agriculture and Agri-Food Canada, Winnipeg, MB, Canada
  o “An integrated SNP, SSR, DArT map in the wheat population Kenyon/86ISMN 2137”

4:00-5:00 pm: Session VIII “High-Throughput Phenotyping”
-Chairs: Robbie Waugh and Stephen Baenziger
- Invited speaker: Laurent Guerreiro – ARVALIS - Institut du vegetal, Paris, France
  o “State of the art and future developments in phenotyping: Half a century of expertise in ARVALIS Institut du vegetal”
- Invited speaker: Bettina Berger – University of Adelaide, Australia
  o “Non-destructive high-throughput phenotyping to study cereals under stress conditions”

6:00 pm: Dinner banquet

Friday, June 29
7-8:30 am: breakfast buffet

8:30-10:00 am: NWGC business meeting and discussion of national priorities
10:00-10:30 am: coffee break
10:30 -12:00 pm: NWGC business meeting continued
12:00 pm: closing remarks and adjourn