

I W G S C



International Wheat Genome
Sequencing Consortium

IWGSC Business Meeting

Kellye Eversole
IWGSC Executive Director

13 January 2024

 PAG 31

IWGSC Business Meeting January 2024

- ▶ Welcome and IWGSC team introductions
- ▶ Overview of IWGSC activities for 2024
- ▶ Wheat Diversity Project Overview
- ▶ Thermo Fisher presentation
- ▶ GrainGenes update from Taner Sen, USDA-ARS
- ▶ Project Updates from the community and open discussion
- ▶ Presentation of IWGSC-Catherine Feuillet Early Career Award





The IWGSC Team



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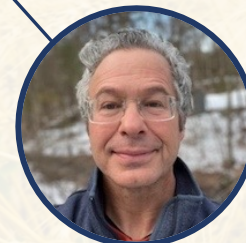
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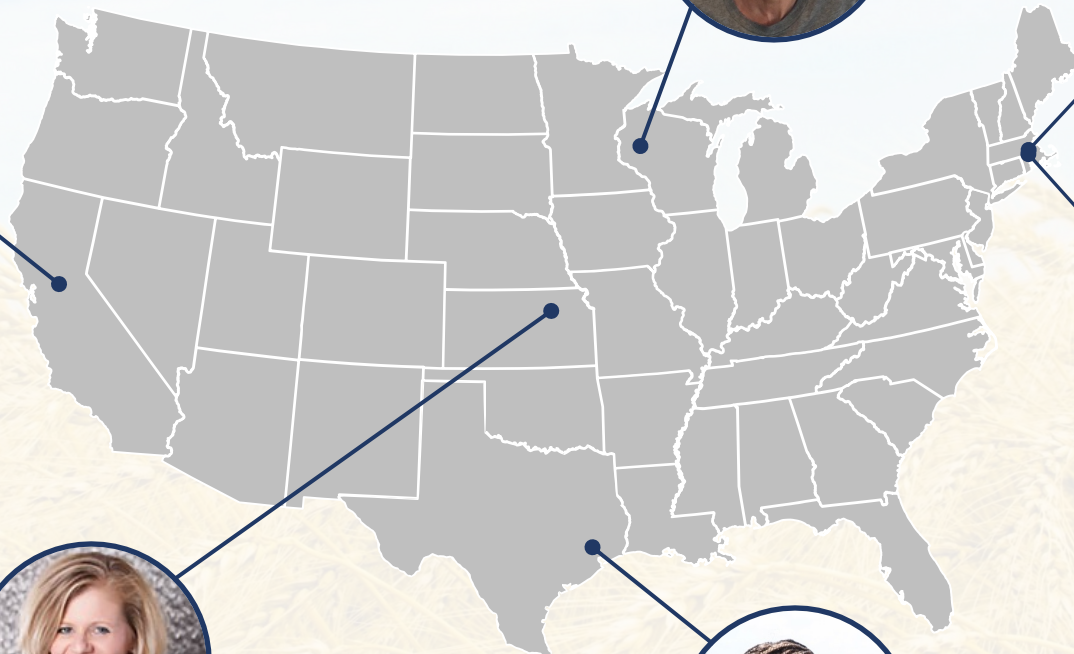
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www.wheatgenome.org



international-wheat-genome-sequencing-consortium

@wheatgenome

The International Wheat Genome Sequencing Consortium



Enhance breeding through an increased understanding of the molecular basis of traits and their allelic diversity



- ▶ IWGSC Wheat Diversity project – platinum quality sequences of 12 landraces representing breadth of wheat diversity, automated and manual annotation, launch PHG effort
- ▶ Expand collaborations with wheat genomic tool developers
- ▶ IWGSC Webinar series
- ▶ Participation in International Wheat Congress & PAG Australia



Next IWGSC Workshops

- ▶ PAG31, IWGSC Workshop – From Structural to Functional Wheat Genomics Workshop , Tuesday 16 January 2024, Town and Country B, 1:30 – 3:40 pm
- ▶ PAG Australia, IWGSC Workshop under development
- ▶ PAG32, two IWGSC Workshops






IWGSC Wheat Diversity Project

- The project addresses the critical need to preserve, discover, and mobilize genetic resources by sequencing landrace genomes that encompass the worldwide diversity of bread wheat.

Key: **NSF Funded** **EU Funded**

Oversight, management, NCBI submissions, outreach & education
Eversole & Stein (IWGSC)

Germplasm Collection: **Sourdille (INRAE)**
8 landraces + Chinese Spring **4 landraces**
  

9 accessions: Sequence & assembly
Corteva Agriscience, Genomics Technologies (Johnston, IA)

4 accessions: Sequence & assembly
Benhamed (U. Paris-Saclay) Poncet (INRAE)

13 accessions: mRNA Iso-Seq **Annotation** **IWGSC Data Repository**
Benhamed (U. Paris-Saclay) Choulet & Rimbart (INRAE) Alaux (INRAE)

Practical Haplotype Graph: 13 accessions + other published genomes
Outreach & education
Buell (U. Georgia)



Topical Presentations

- ▶ Thermo Fisher presentation, Grant Poole
- ▶ GrainGenes update from Taner Sen, USDA-ARS



IWGSC Business Meeting January 2024

- ▶ Project Updates from the community and open discussion



Early Career Award

- ▶ Launched by the IWGSC in 2007
- ▶ Awarded to talented early career scientists working on wheat genomics
- ▶ Goal – engage early career scientists in wheat research and in the IWGSC
- ▶ Open to any early career scientist nominated by others or self-nominated
- ▶ To ensure the continuation of the award, Catherine Feuillet co-funds the award
- ▶ The award is now known as the IWGSC-Catherine Feuillet Early Career Award

<https://wheatgenome.org/People/Early-Career-Award>



IWGSC-Catherine Feuillet Early Career Award

Carolyn Mukiri Kambona, University of Bonn, Germany

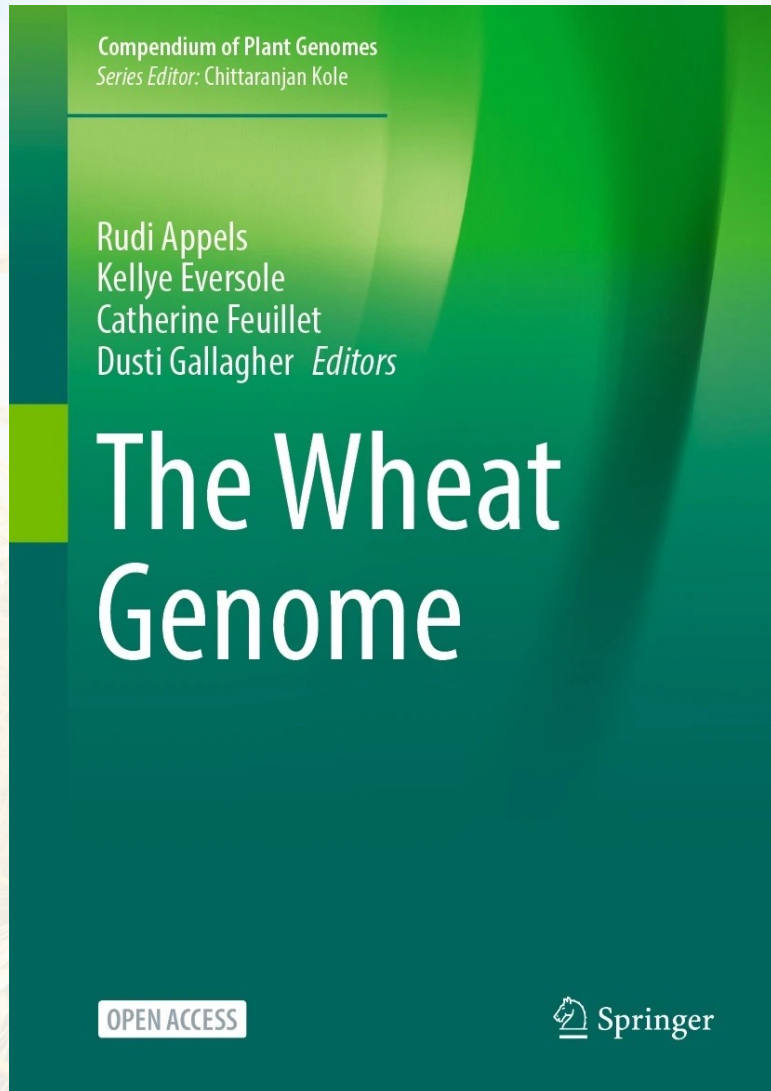


Read her profile here:

<https://www.wheatgenome.org/people/early-career-award/carolyn-mukiri>



The Wheat Genome Book



The first comprehensive book about the wheat genome

In open access:

<https://link.springer.com/book/10.1007/978-3-031-38294-9>





Thank you for your participation!

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