

I W G S C



2024 SNAPSHOT

3,500 MEMBERS

971 INSTITUTES & COMPANIES

80 COUNTRIES

58 COORDINATING COMMITTEE MEMBERS representing universities, research institutions, governmental agencies, and grower organizations, as well as small, medium, and large wheat breeding and seed companies.



DIVERSITY PROJECT

The IWGSC Wheat Diversity Project is a two-year initiative aimed at expanding the wheat genomics toolset through enhanced community coordination, data generation, and access.

The project focuses on four main aims:

- *Generate Platinum Quality Genome Assemblies:* The project aims to produce high-quality genome assemblies for twelve diverse bread wheat landrace accessions and the community reference cv. Chinese Spring. Significant progress has been made, with primary data sets produced and early steps in genome assembly completed. The delivery of platinum-quality genomes is on track.
- *Establish Transcriptome Data Sets and Gene Annotations:* The project seeks to generate transcriptome data sets and gene annotations for twelve landrace accessions and update the IWGSC CS RefSeq annotation. Progress includes the collection of plant materials and RNA preparations. Annotation pipelines have been readied for de novo annotation and precise mapping of existing gene models.
- *Construct a Practical Haplotype Graph (PHG):* The project aims to catalog all genetic diversity within bread wheat and enable community-driven discoveries. The PHG construction is in progress, with successful beta testing of PHG software. Data dissemination plans are in place to make the PHG accessible to the scientific community.
- *Increase STEM Educator Training and Public Engagement:* The project focuses on enhancing STEM education, public scientific literacy, and workforce diversity through outreach, training, and partnerships. Successful efforts include the recruitment of an IWGSC Summer Undergraduate Intern, public engagement activities, and collaborations with community educators.

URGI DATA REPOSITORY

All IWGSC reference sequence assembly and annotation data and associated resources are publicly available at the IWGSC data repository.

30,264 VISITS

23,794 DOWNLOADS

35,271 BLASTS

wheat-urgi.versailles.inra.fr

IWGSC data are also available at Ensembl Plants, Graingenes, NCBI and Wheat1S.



3 WORKSHOPS

At PAG San Diego and PAG Australia.



5 WEBINARS

2,146 REGISTRATIONS
from 81 COUNTRIES



Library of 43
webinar recordings
35,500 Lifetime Views

2024 SPONSORS



www.wheatgenome.org