




Sequencing and Genomics Services (SGS)



 <p>Mission To make it possible for agricultural breeding and research programs to fully utilize modern genomics tools in developing countries</p>	 <p>Vision To empower researchers and breeders with advanced tools for sustainable, high-yielding, and climate-resilient agriculture</p>	 <p>Values We uphold integrity through ethical practices, foster collaboration with diverse stakeholders, and embrace innovation to enhance crop resilience</p>
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State-of-the-art facilities

High-throughput Sequencing Platform

Illumina



High-throughput Genotyping Platform

Biomark X9



High-Performance Computational Genomic Analysis (HPCGA) facility



Services on a cost-to-cost basis

Genotyping Services

High-density

- Genotyping-by-sequencing (GBS)
- Skim sequencing
- ddRAD sequencing
- Affymetrix panel (50,000 markers)

Mid-density

- DArTag panel
- Agri-Seq panel
- Flex-Seq panel



Low-density

(10-200 markers)

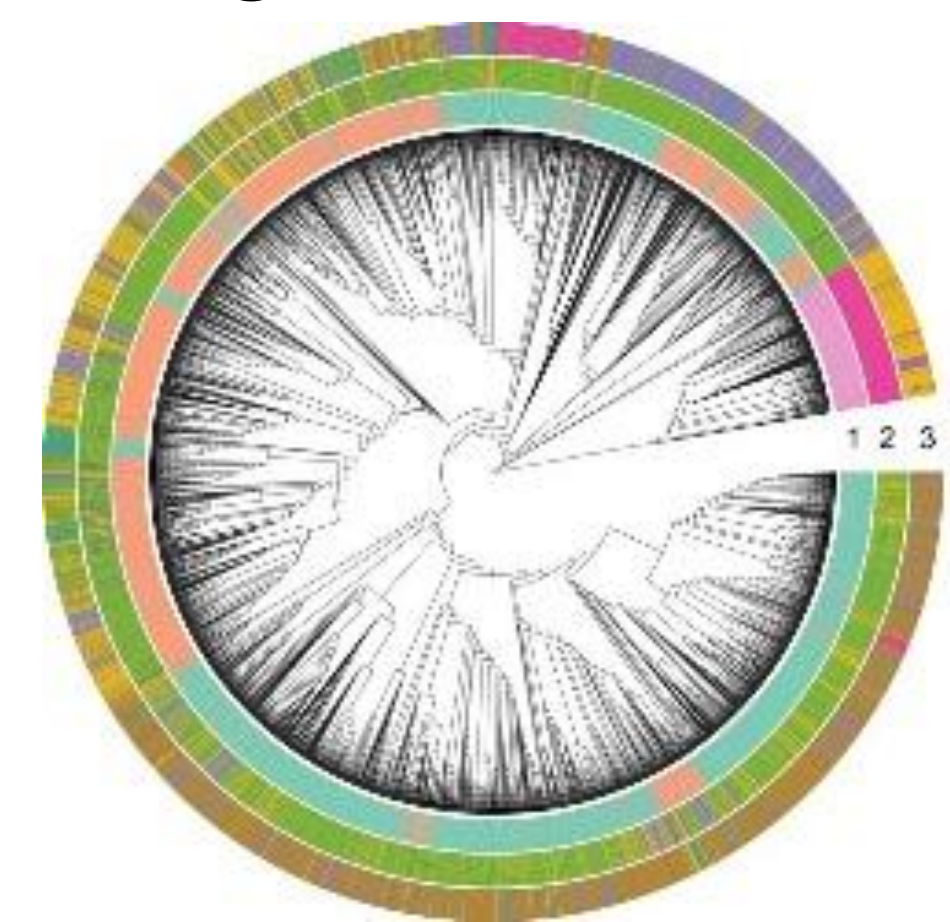
Sequencing Services

- Whole Genome Sequencing
- Whole Genome re-sequencing
- Transcriptome Sequencing
- Metagenome Sequencing
- Targeted Sequencing
- Amplicon Sequencing



Bioinformatics Services

- Genome Assembly
- Long-read Sequencing
- Phylogenetics
- Metagenomics
- Transcriptomics
- Epigenomics
- NGS data QC and management



Capacity Building



Workshops/Trainings

- Molecular Breeding tools and technologies
- Genotyping data analysis
- Bioinformatics data analysis
- >160 PhD students/researchers trained
- >300 scientists trained from 36 countries
- Services have been provided for 38 crops and 40 organizations from 14 different countries across the globe

17

553

Training courses Participants

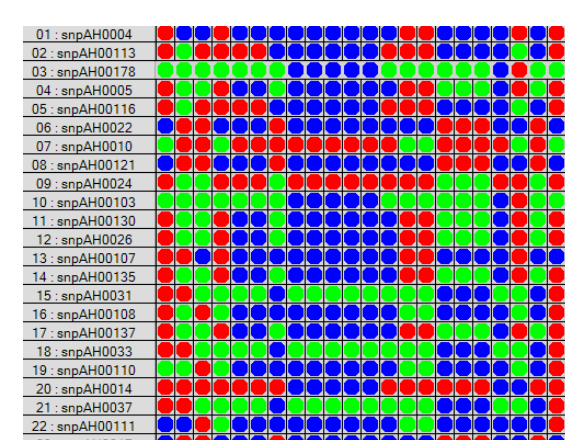
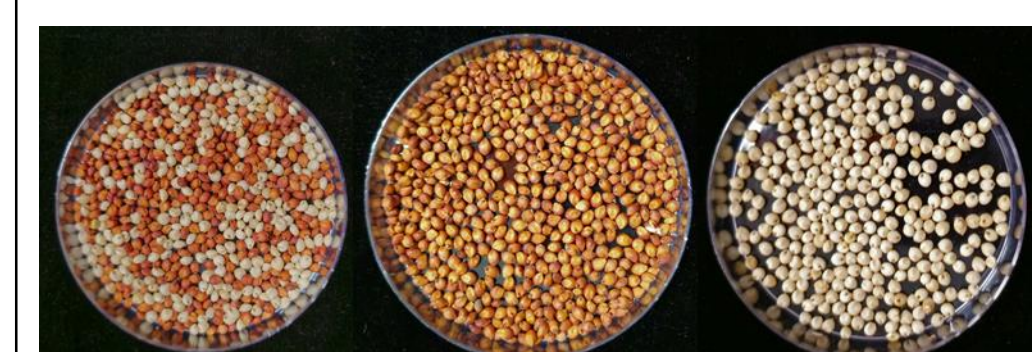
485
194 NARS/Public/CGIAR Institutes

68
22 PVT. companies

Seed Purity Testing

DNA Fingerprinting

- Genetic purity testing
- Hybrid/Variety confirmation test



<http://cegsb.icrisat.org/>



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