



## Plant Genome Assemblies

- ▶ *Generate genome assemblies at chromosome level, even for large polyploid genomes*
- ▶ *Profit from our longstanding experience in assembling large and polyploid genomes of up to 22 Gbp in size*
- ▶ *Receive reliable resources for genetic variance studies, marker development, and pre-breeding*

At Computomics, we provide services tailored to each crop species. Our pre-sequencing consultation guides you in devising the best sequencing strategy. We partner with leading service providers who offer the entire spectrum of the latest libraries and sequencing technologies.

Computomics has a deep understanding of both de novo and reference-based genome assemblies. We address potential sources of error up front, measure assembly quality and generate reliable statistics. Our strong connections to world-leading researchers have allowed us to develop cutting edge tools and pipelines for assemblies of all genome sizes.

### Case Study

*We performed a de novo assembly of two indica elite rice lines using Illumina and PacBio data. We constructed a genetic map using 2000  $F_2$  individuals to build pseudochromosome level assemblies with >95% of the scaffolds in chromosomes and >99% gene space covered.*

### Visualizations



### Contact Our Expert Scientist

*Christian is our expert on genome assembly. Contact Christian at [cd@computomics.com](mailto:cd@computomics.com) for a free consultation about your genome assembly project.*



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