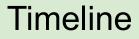
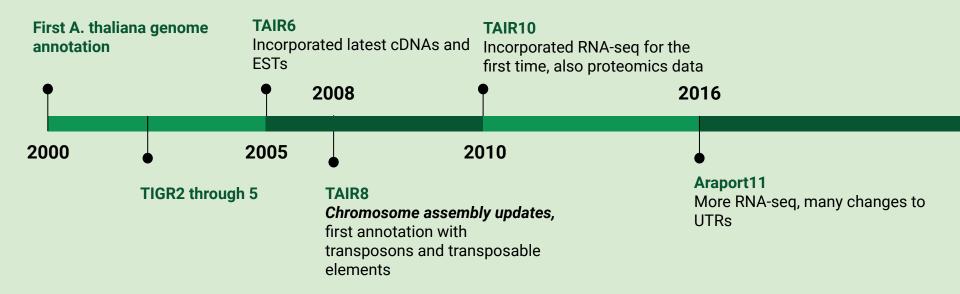
A. thaliana genome annotation v.12

A community effort coordinated by TAIR







What has changed over the past 20 years?



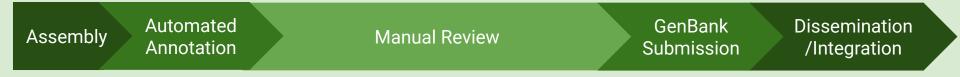
- Greater amounts of supporting data
- Increased kinds of supporting data
- Improved sequencing technology, longer reads
- Improved genome assembly software
- Improved automated annotation pipelines

An improved version is



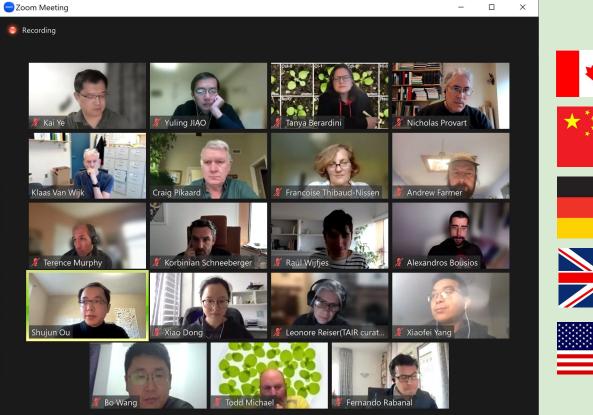


Past releases: specific grant funding for the entire process



V12: Community effort, contributions of expertise and computing resources

October 27, 2022: First meeting



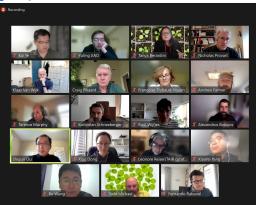




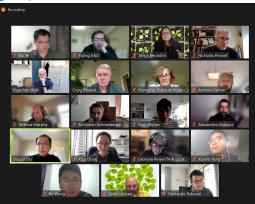




Assembly	Automated Annotation	Manual Review	GenBank Submission	Dissemination /Integration	
Who: Schneeberger	Who: NCBI (National Center for	Who: Community experts for review,	Who: TAIR + NCBI	Who: BAR, TAIR, Ensembl Plants, NCGR	
lab (MPI)	Bioinformatics)	TAIR for coordination and		GCV, AtPeptide Atlas, more	
Zoom Meeting	- 0 X	WebApollo hosting			



Assembly	Automated Annotation	Manual Review	GenBank Submission	Dissemination /Integration	
Who: Schneeberger Iab (MPI)	Who: NCBI (National Center for Bioinformatics)	Who: Community experts for review, TAIR for	Who: TAIR + NCBI	Who: BAR, TAIR, Ensembl Plants, NCGR GCV, AtPeptide Atlas,	
Coom Meeting	- a x	coordination and WebApollo hosting		more	



Rough timeline: V12 publicly released by Jan. 2024

Assembly	Automated Annotation	Manual Review	GenBank Submission	Dissemination/ Integration	
Dec 2022 (DONE, 12/23/22)	Currently in queue for assembly review	April - Sept 2023?			
	Jan - March 2023?				
			Oct - Nov 2023?		
				Start: Jan 2024?	

Manual Review: Join our volunteer team effort!

Need: subject matter expertise, interest, and attention to detail

Scope: TBD after NCBI annotation run

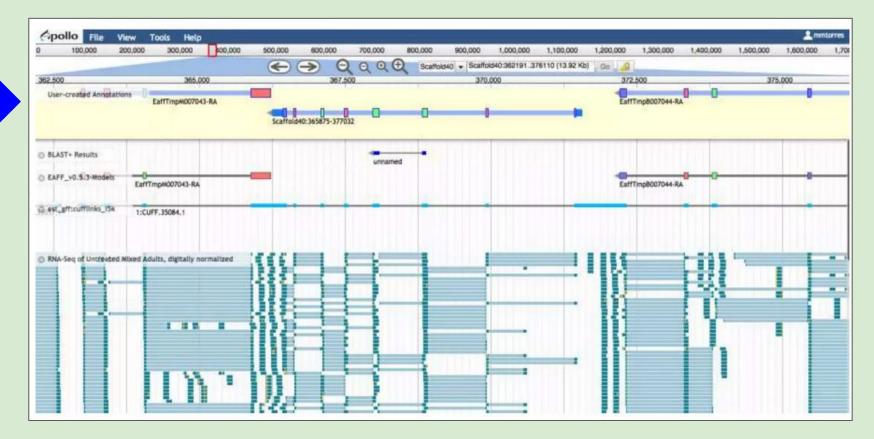
What would you be signing up for?

- WebApollo training session
- Reviewing a set of genes (clearly defined)
- Within a set time period, updates requested every two weeks after assignments are handed out
- Authorship in the reannotation paper

Contact: curator@arabidopsis.org



WebApollo



Distributing work

- By type of gene (protein coding, rRNA, transposable element, type of TE)
- By gene family
- By class of change to review (merge, split, removed, significantly changed)

Stay up to date

Website: https://tinyurl.com/AthalianaV12

Social media:

- Mastodon: @TAIR@genomic.social
- Twitter: @tair_news

In-person updates at:

- The 33rd International Conference on Arabidopsis Research
- Plant Biology 2023



Contact: curator@arabidopsis.org