



An Introduction to Apollo 3

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What to expect

- Brief introduction to Apollo 3
- Hands-on demonstration with test data
- Try with your data

Hopefully I can answer for you

- What even is Apollo anyway?
- Why is it “3”, and how is it different?

What is Apollo 3?

- A JBrowse 2 plugin
- A way to edit data that's in JBrowse
- A server that works with the plugin

What is it used for?

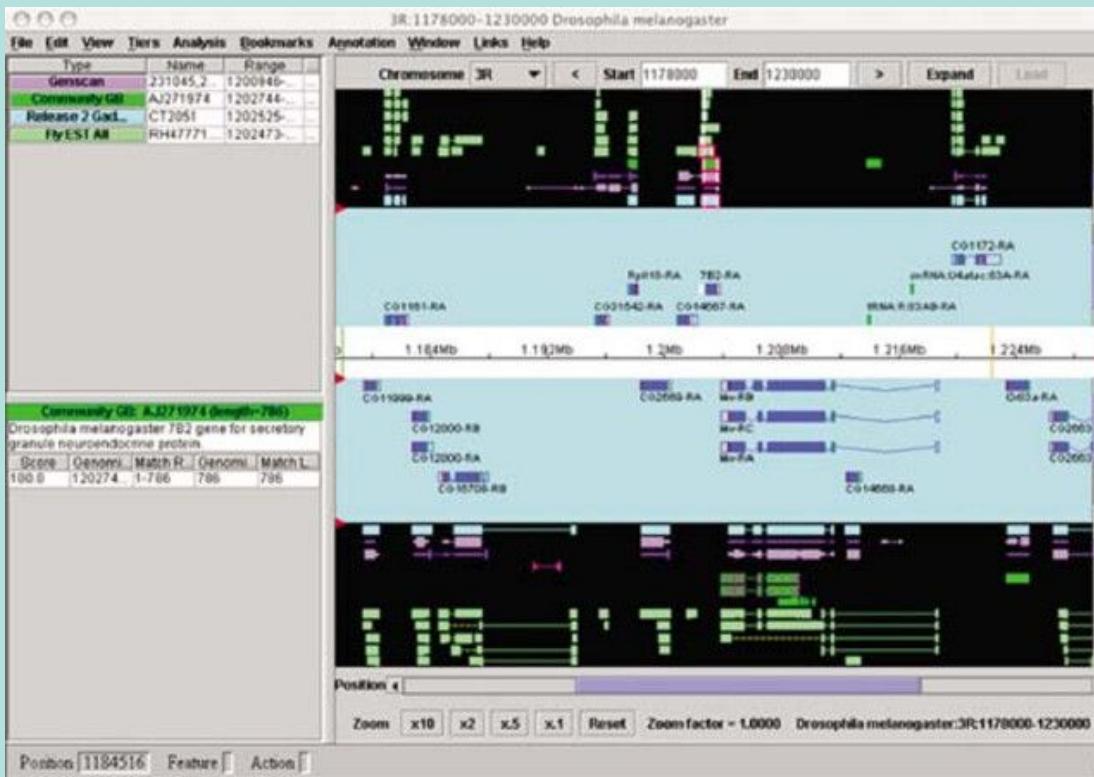
- Usually used for “manual annotation” or “curation” of genes

“Incorrect annotations poison every experiment that makes use of them ... Worse still, the poison spreads because incorrect annotations from one organism are often unknowingly used by other projects to help annotate their own genomes.”

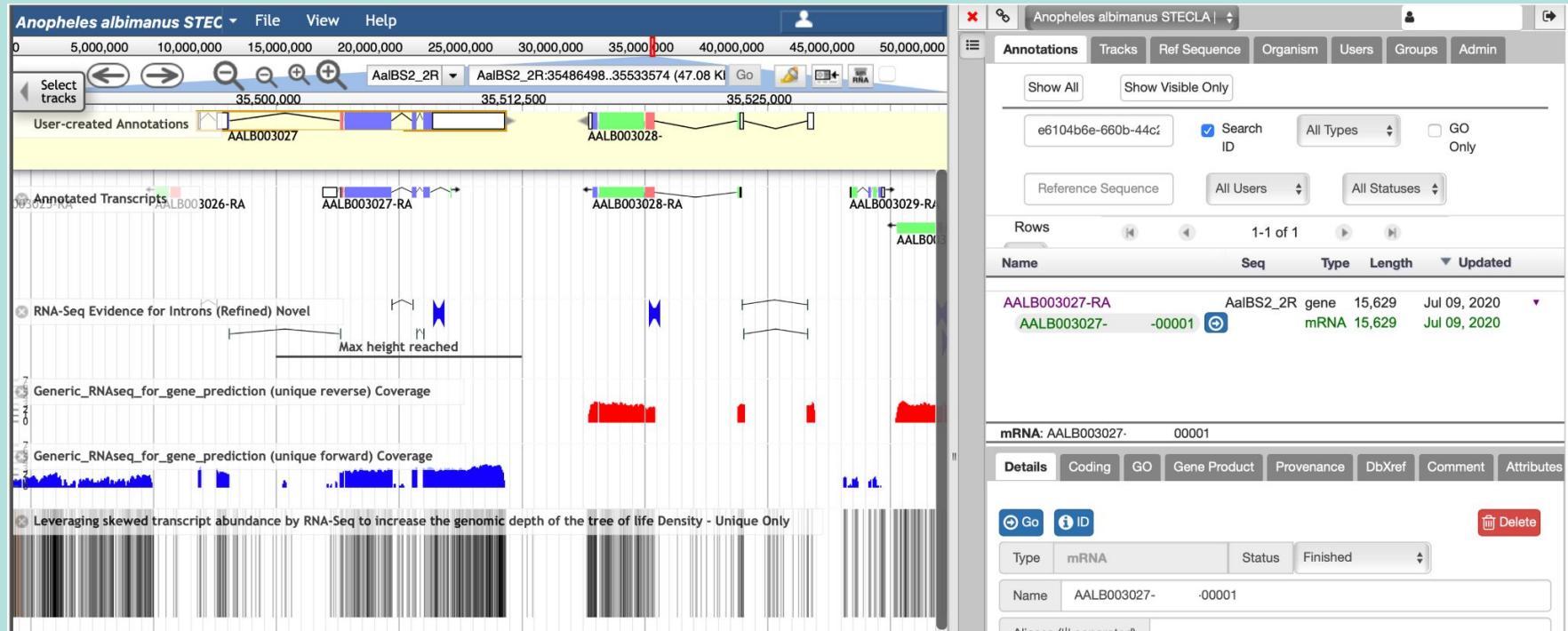
– Yandell and Ence 2012, doi:10.1038/nrg3174

Why Apollo “3”?

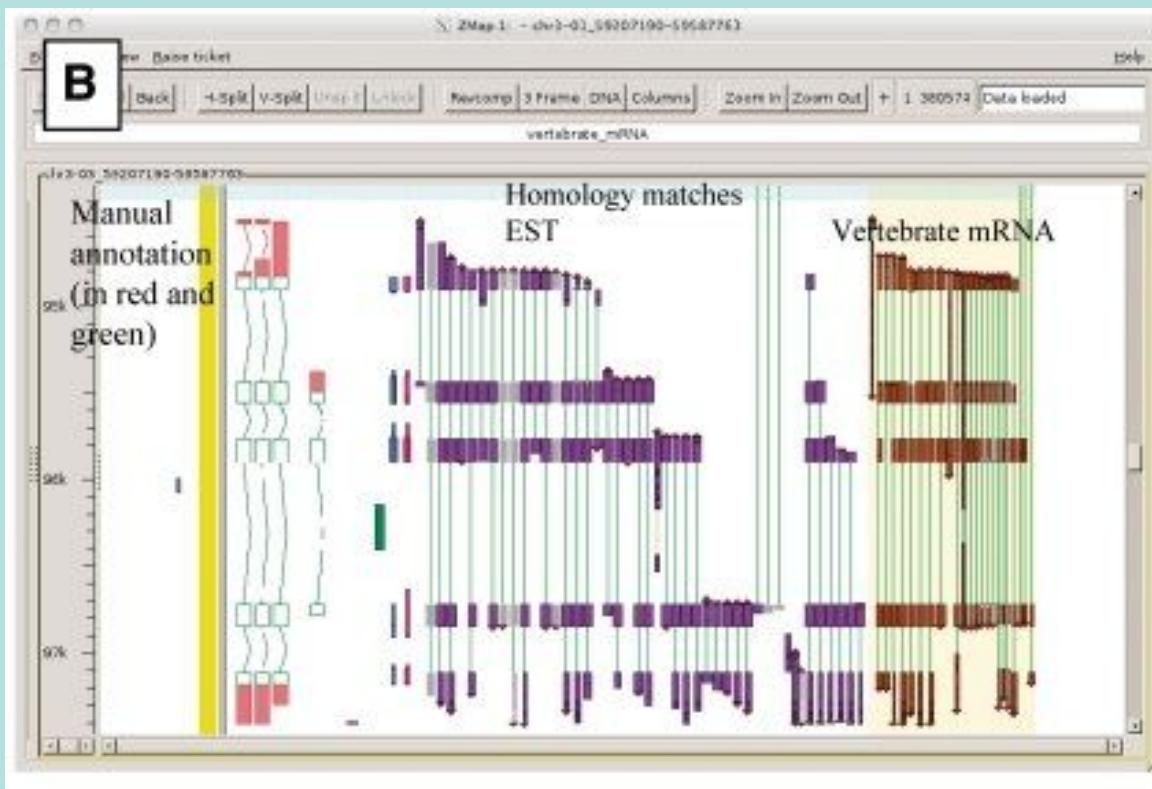
Apollo 1



Apollo 2, aka “Web Apollo”



Otter



Artemis



Apollo 3

Apollo 1 → Apollo 2 → Apollo 3

OR

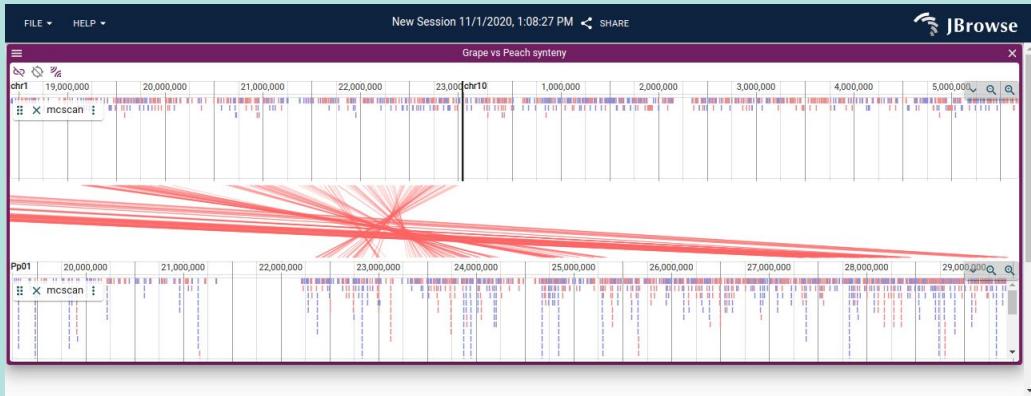
Apollo + Artemis + Otter = Apollo 3



Apollo 3 in JBrowse 2

New features in JBrowse 2

- Linear synteny view (pictured)
- Sort and filter alignments tracks
- Flip linear views
- View multiple regions at once



Status

- Beta release
- Many new UI features coming
- Install on server with Node.js and MongoDB
- Or use Docker

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