

UCSC Genomebrowser

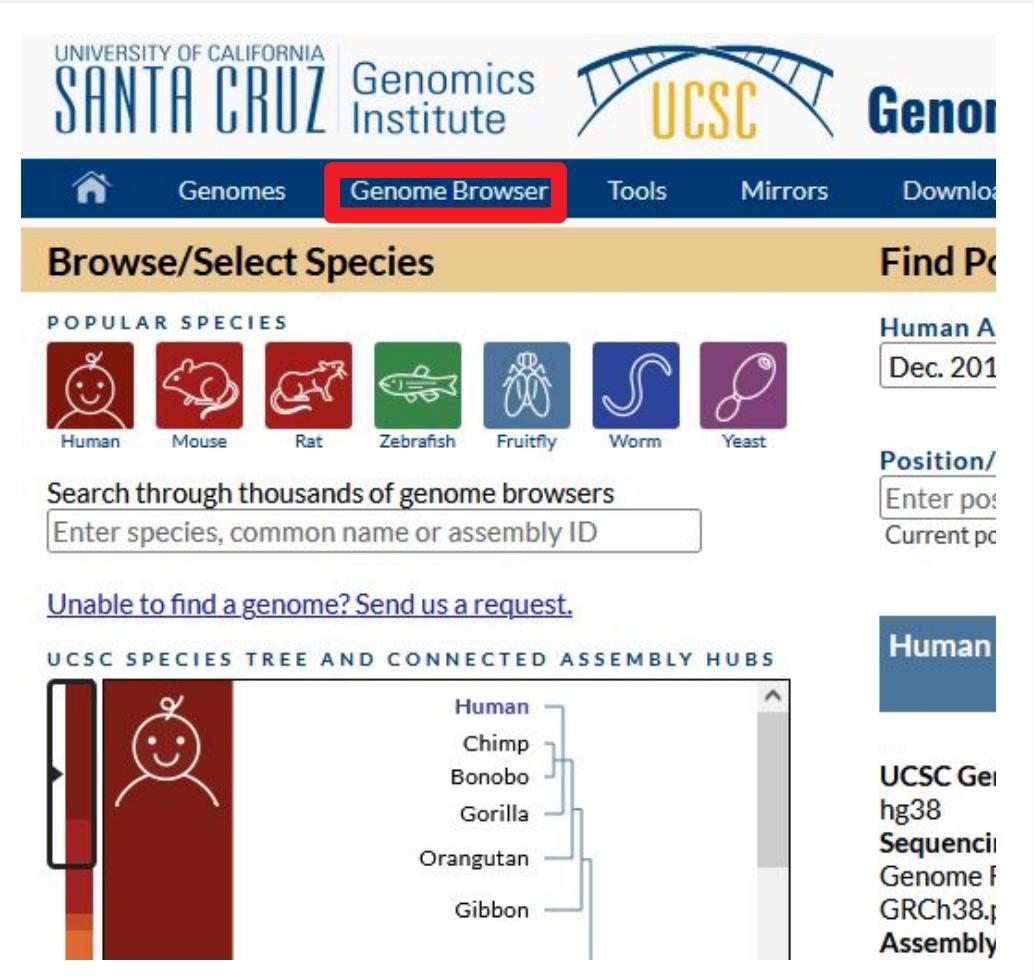
04/10/2022

Sybren Rinzema



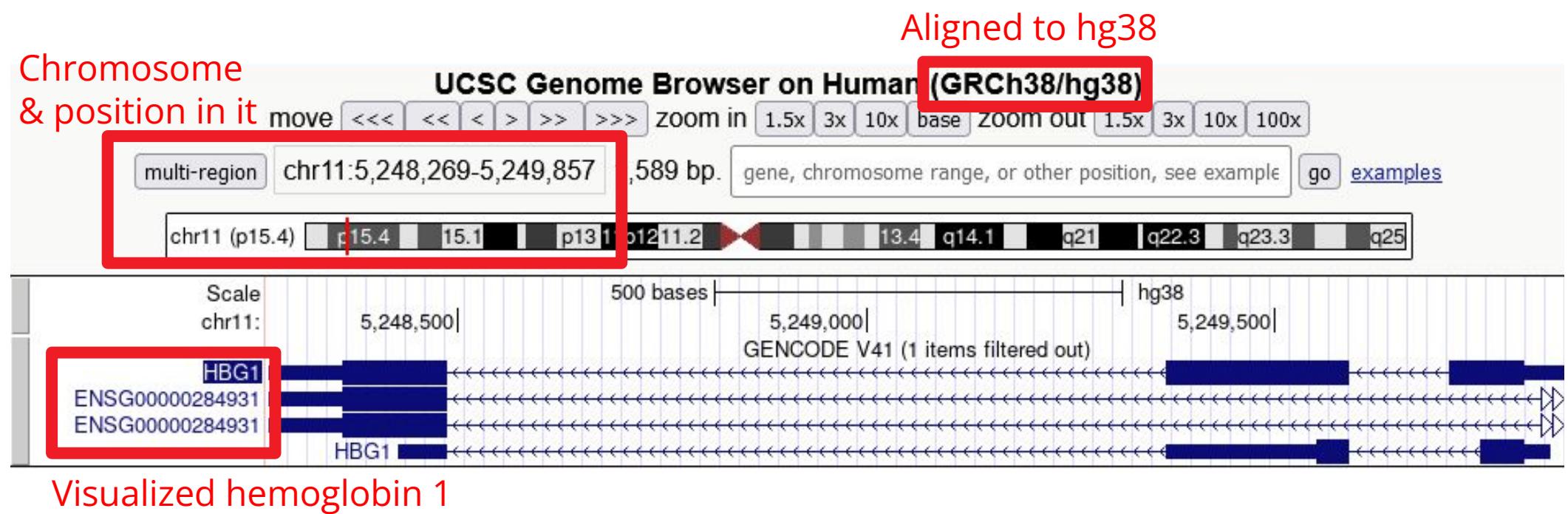
WHAT IS IT?

- A graphical interface used to display biological information.
- Enables us to visualize entire genomes
- Compare our own samples against a genome through “trackhubs”
- <https://genome-euro.ucsc.edu/>

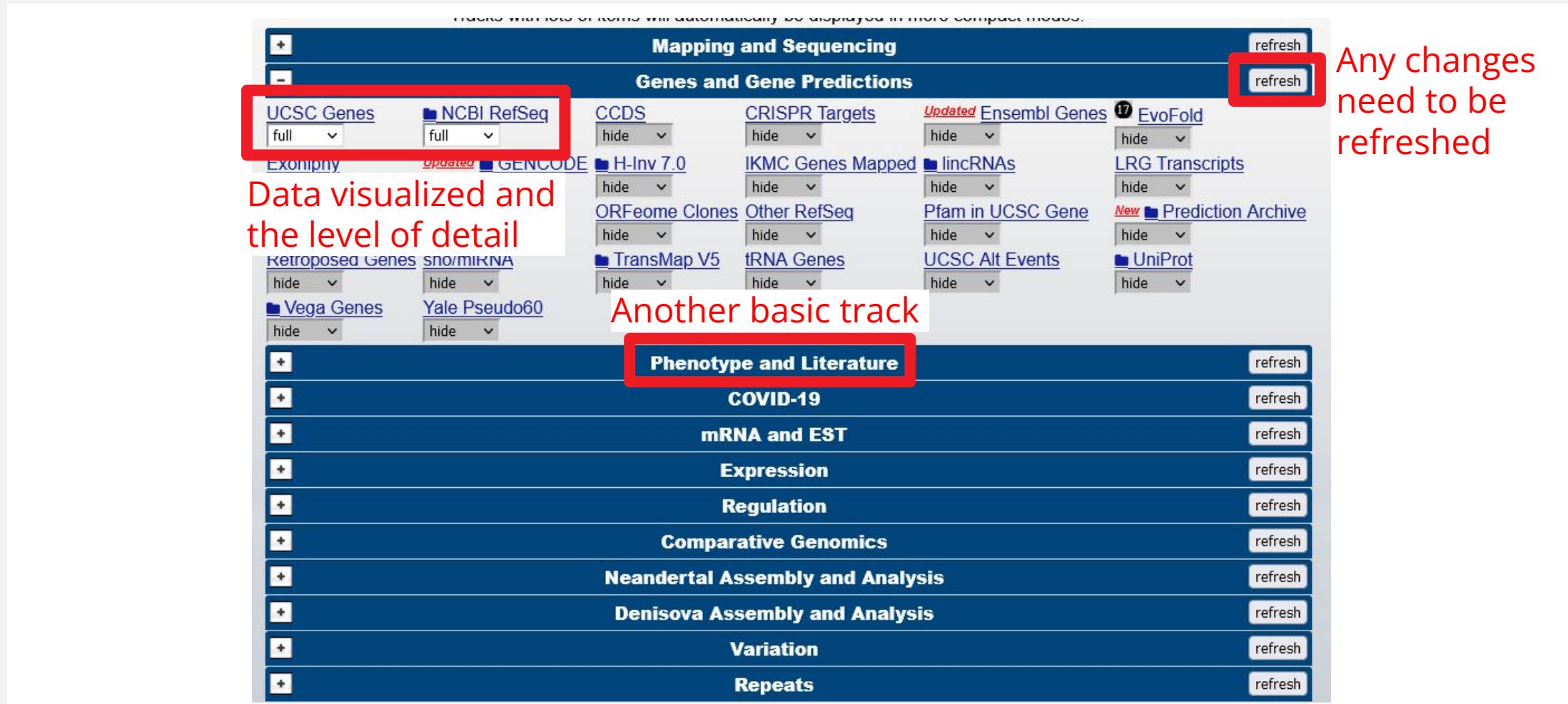


THE BROWSER

- <https://genome-euro.ucsc.edu/>



THE BROWSER



Any changes
need to be
refreshed

Data visualized and the level of detail

Another basic track

DISPLAYING CUSTOM DATA

- UCSC requires genomic data in the bigwig format
 - Can be loaded by clicking on “my data” -> “custom tracks”
- To save time, it also accepts trackhubs
 - Which is basically a collection of bigwigs
- Previously mention pipeline seq2science creates trackhubs
- Find the current trackhub at:
https://mbdata.science.ru.nl/ghe_2022/day2/trackhub/RNA-seq_trackhub.hub.txt

DISPLAYING CUSTOM DATA



Click here to connect a custom hub

Enter hub URLs below to connect hubs. Hubs connected this way are visible to all users by default.

If you wish to share your hub you can create a [session link](#). First, connect the hub and configure the tracks image as desired, then copy the URL and share it with others. You, as the author, also have the power to update the session contents freely. Alternatively, you can connect to hubs via a direct connection link copied using the copy icon, shown on this page, when a hub is connected.

[Contact us](#) if you wish to submit a hub to the list of public hubs.

URL: [Add Hub](#)

Insert the url and click "add hub"

- Enter its URL into the input box above and click 'Add Hub'.
- Alternatively, you can go to the 'Public Hubs' tab on this page and connect one of the hubs that were submitted to us.
- Another way to connect to hubs is via a direct connection link copied using the copy icon, shown on this page, when a hub is connected.
- You can also connect to hub by following a short link to a saved session, created though the menu 'My Data > My Sessions', if the Genome Browser had connected hubs when the session was saved.

DISPLAYING CUSTOM DATA

