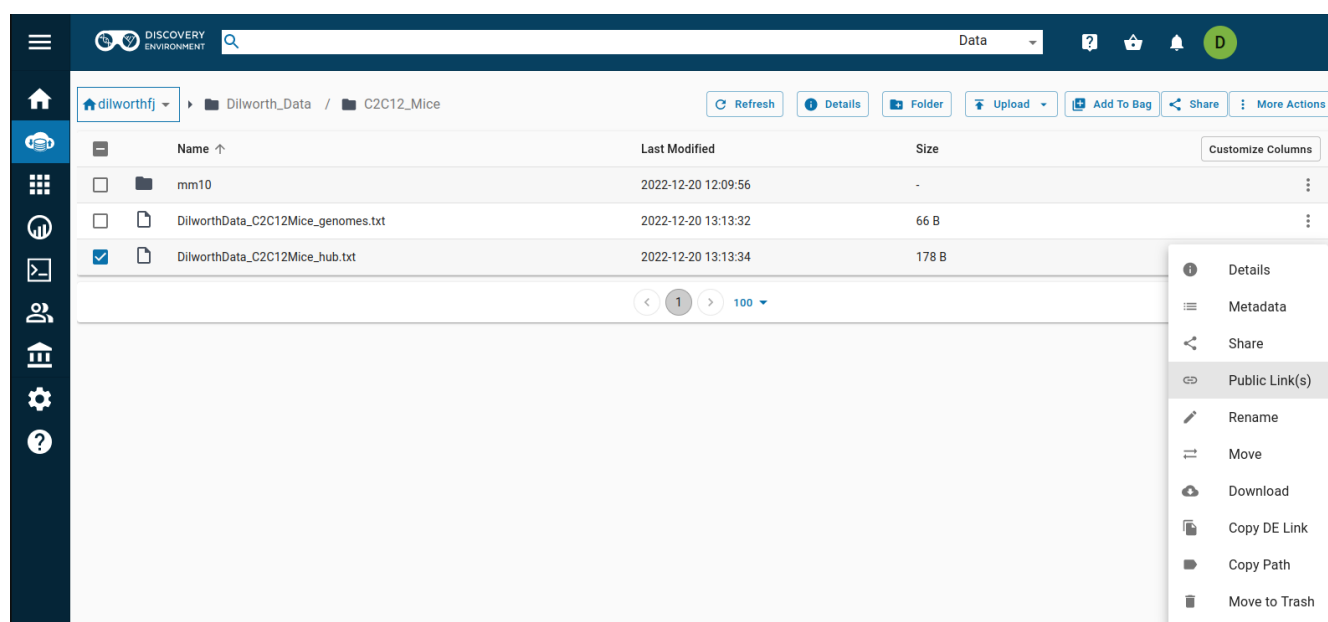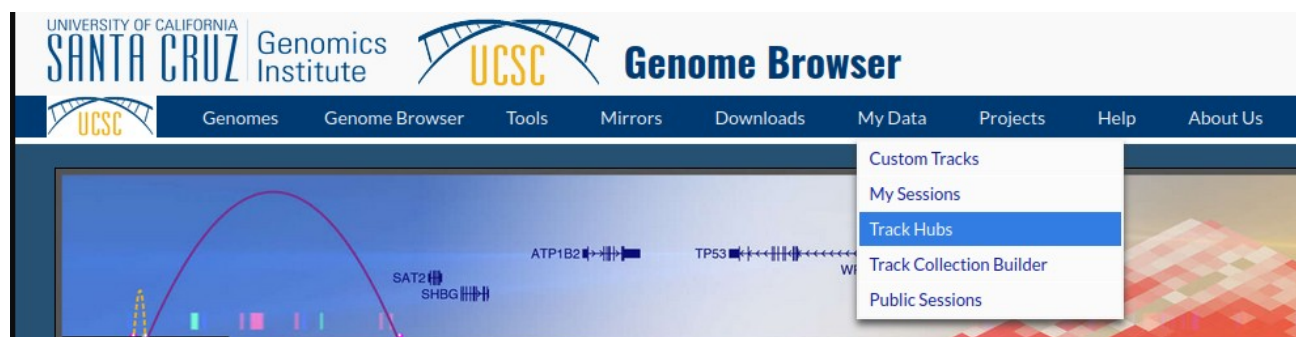# Viewing CyVerse Hubs in the UCSC Genome Browser

This guide assumes you have URL links to the hub.txt files hosted on CyVerse, where associated data is also stored. These links may have been shared between lab members.
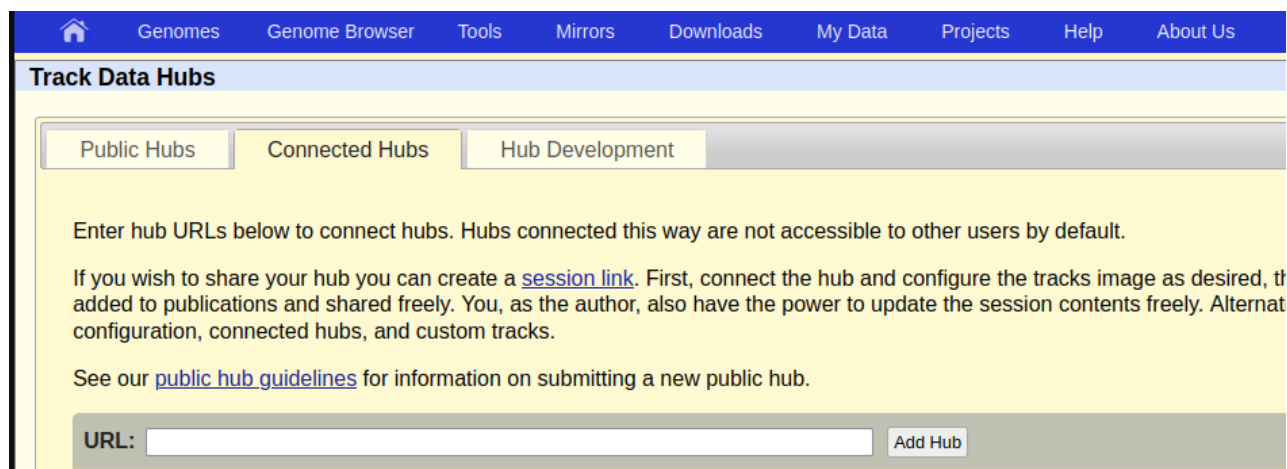
If not provided, hub links can be obtained from CyVerse (must have access to the account) by finding the desired hub.txt file and copy/pasting the Public Link into UCSC with the following steps.

Go to https://genome.ucsc.edu/ -> **My Data -> Track Hubs**

Under **Connected Hubs** copy and paste the link URLs and click **Add Hub**

You will be redirected to the home page. Just go back to **My Data -> Track Hubs -> Connected Hubs.**
You should see the hub connected now.
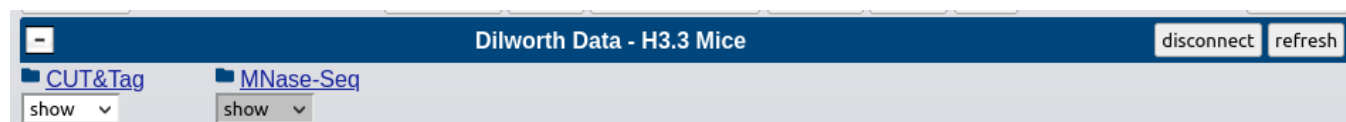Open it in the genome browser by selecting the genome assembly, e.g. click "mm10" below:

You will see **currently visible tracks** along with additional reference tracks available from UCSC and visible by default.

You can **search for genes** or genomic regions in the search bar and zoom in/out of the chromosome/regions.

Also note the **scale** when comparing tracks of bigwig files, this can be changed in settings.
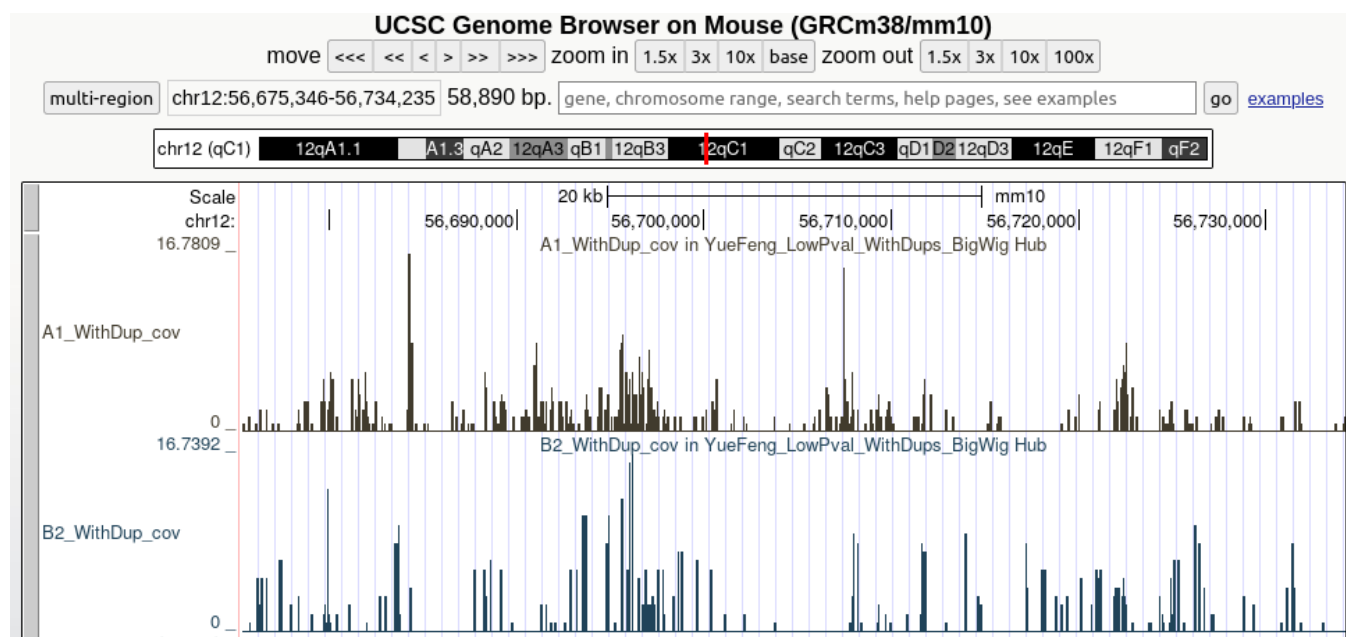
If you **scroll to the bottom**, you can **hide/show supertracks** (collections of track groups), e.g. "CUT&Tag" and "MNase-Seq" below:

You can also click on the supertracks and **hide/show track groups**:

And go further into the individual tracks and change settings:

Note:
Sometimes when opening a hub assembly, the tracks may show as an error/couldn't connect. In this case, try to refresh the page to let UCSC fetch the data again (hosted on CyVerse), or disconnect/reconnect the hub. Give it a minute or so.