# Submitting Immunofluorescence Images

This page provides instructions for adding immunofluorescence image data to the GUDMAP/RBK Data Explorer.

If you have any questions or feedback, please send them to your consortium's help email: help@gudmap.org or help@rebuildingakidney.org

We also have the following training materials available:

- Webinar Slides
- Webinar Replay (30:41)
- Tutorial Videos (Coming Soon)

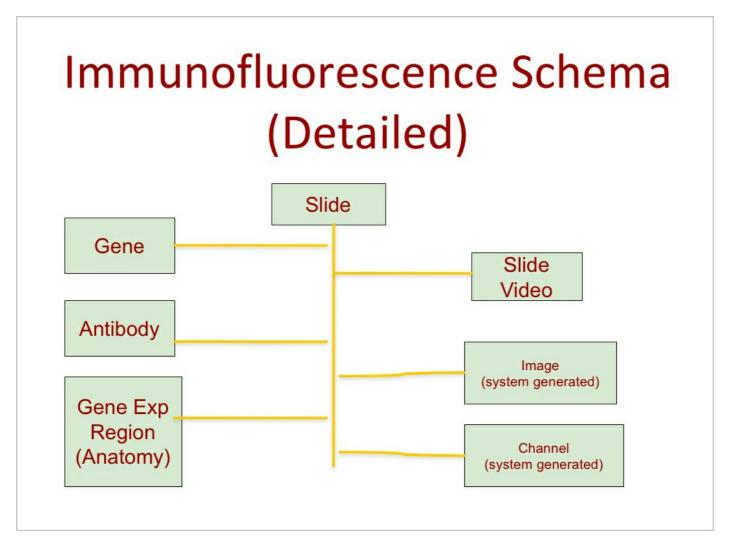
#### Overview

Adding immunofluorescence slides to the Data Browser involves the following steps:

- Make sure you are in the correct Globus authentication group, kidney-writers, and that you are logged in.
- Create a base "Slide Record" with basic metadata and uploaded image file.
- Optionally, link other data to this record: genes, expression regions, antibodies and videos.

### Schema

The following represents how different tables in the Data Browser are related in order to form the Immunofluorescence data record.



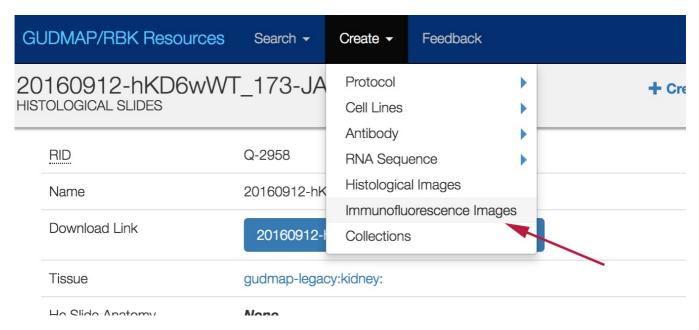
# Are you in the kidney-writers group?

If you haven't already done so, go to this link to join the group: https://www.globus.org/app/groups/af0b4010-5b75-11e6-9575-22000aef184d/about

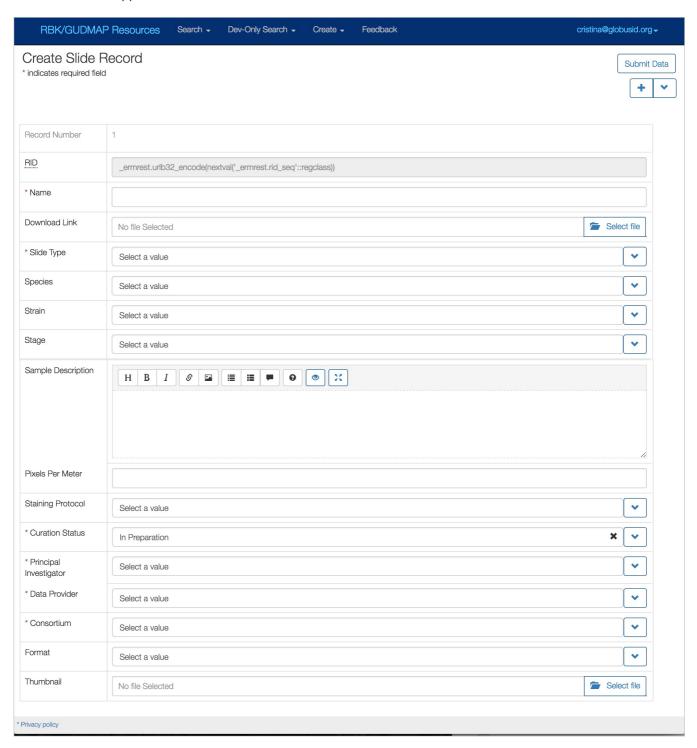
You can find more details about this process at Accessing GUDMAP and RBK Resources.

### 1. Create the IF slide record

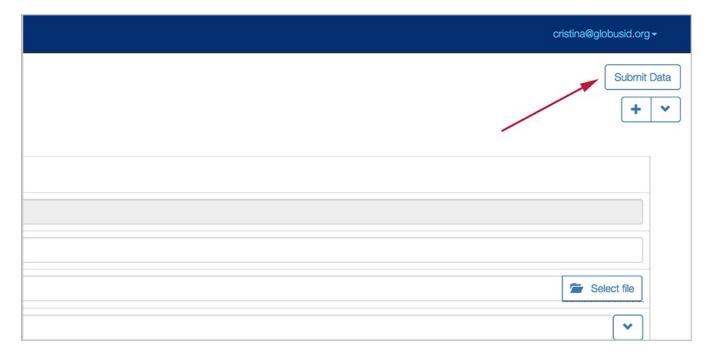
• In the top navigation bar, click Create > Immunofluorescence Images.



The Create form appears.



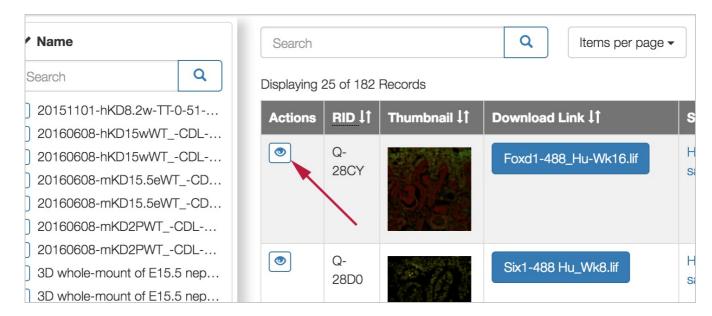
- Select the values for each relevant field. The required fields are listed, but the more fields you fill out the easier the data is to find:
  - Name: Please use a short descriptive name to help users understand what the image represents.
  - Download Link: Upload the slide image.
  - Slide Type: Choose whether this slide is wholemount or a section.
  - · Curation Status: Choose either
    - In Preparation: Use this status while still drafting the data.
    - PI Review: Use this status when your data is ready for internal review.
    - Submitted: Use this status when your data is ready for Hub review.
    - Note: Your data will not be viewable publicly until approved for Release by the Hub. For a complete description of the Curation Process, click here.
  - Principal Investigator: Choose the name of your project's contact PI.
  - Data Provider: Choose the lab/institution associated with this data.
  - Consortium: Make sure you indicate whether this is from the RBK or GUDMAP consortium.
- Scroll back up to the top of the page and click the Submit Data button to save the record.



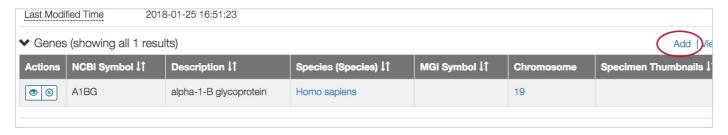
### 3. Adding genes, expression regions and antibodies

Once you have the basic Slide record, scroll down further to view other types of data you may associate (link) with the slide: *Genes, Expression Regions and Antibodies*. For each of these sections, the procedure is basically the same:

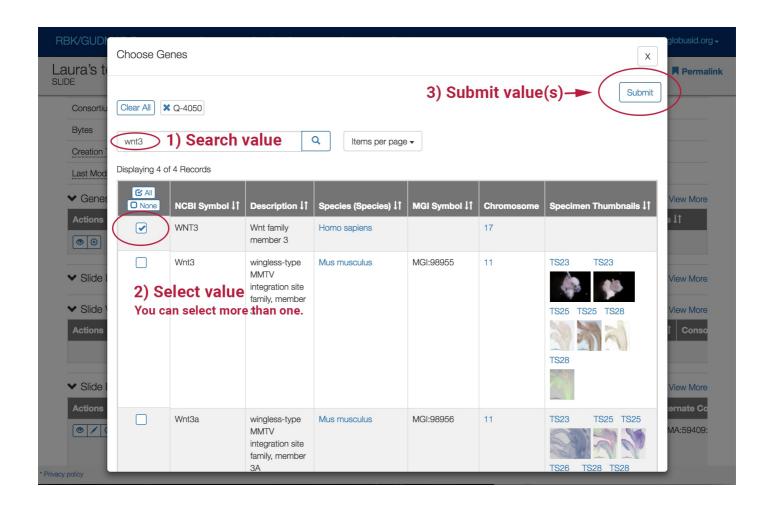
- Find the Slide record you want to link records to by clicking Search > Gene Expression Data > Immunofluorescence Slides and Video in the navigation bar and searching for the record (per the previous section).
- Click the eye icon in the Actions column to view the desired record.



- Make sure you are logged in.
- Scroll down to the desired section and click Add on the right side of the page.



• Search for existing data and select it (you may select multiple values). Then click the *Submit* button (see the following screenshot).

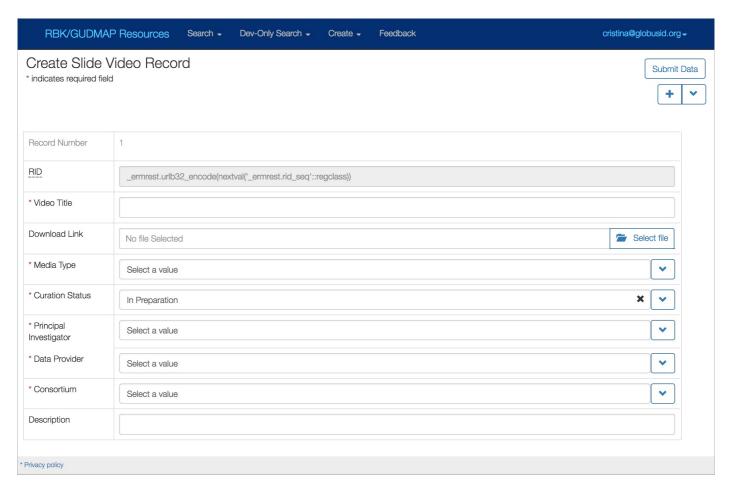


## 4. Adding video

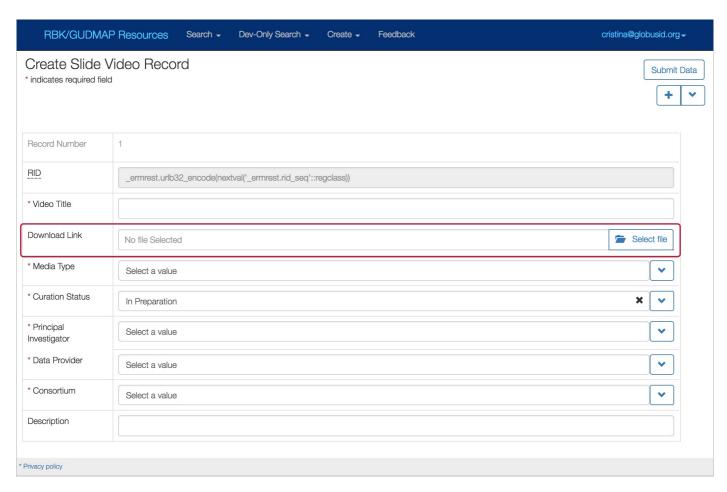
Scroll down to the Slide Videos section and click the Add link on the right side of the page.



Fill out the Create Slide Video Record form.



Upload your video file by clicking on the Select File button in the Download Link field. Note: At this time, please submit mp4 file format. This allows users to view the movie in the browser window. For best results, use 16:9 aspect ratio and high resolution (ideally 1080p).



• Click the Submit Data button.

### 5. Reviewing and Submitting Immunofluorescence Data

Note: By the hard launch of the new GUDMAP site in April, there will be dashboards and email notifications to make this process more straightforward. In the meantime, here is how a project's PI or designated reviewer can find their project's data with a Curation Status of "PI Review"

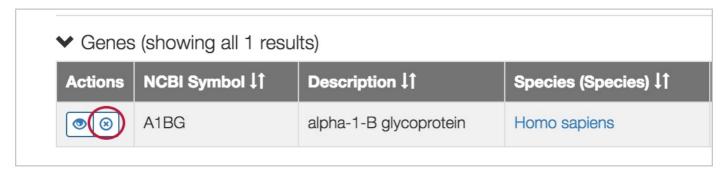
- Make sure you are logged in.
- From the navigation bar, click Search > Gene Expression Data > Immunofluorescence Images and Video.
- In the faceting sidebar on the left, scroll to **Curation Status** and choose *PI Review*. Note: Keep in mind that the data submitter may have forgotten to set the Curation Status field, in which case the status would still be *In Preparation*.
- In the faceting sidebar, scroll to **Principal Investigator** and choose your project's PI. Now you should see the data you need to review.
- When your record is approved internally, change *Curation Status* to *Submitted* to send it to the Hub (click here for the full Curation Workflow).

### 6. Deleting Immunofluorescence Data

Before you can delete the base record, you need to unlink (delete) any records associated with it.

To delete an IF Slide record:

- Scroll down the record to the sections for Genes, Expression Regions, Antibodies and Videos.
- In each of these sections, unlink the entries by clicking the 'x' icon in the Actions columns.



• Once all of the related records have been unlinked (deleted), then scroll up to the top of the record and click Delete.

