



APR 25, 2023

🌐 Cell DIVE Platform | Accessing HuBMAP Datasets and Analysis on Globus

Liz McDonough¹, Christine Surrette¹

¹GE Research

Human BioMolecular Atlas Program (HuBMAP) Method Development Community

GE R



Liz McDonough
GE Research

OPEN  ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.14egn2qwp5d/v1

Protocol Citation: Liz McDonough, Christine Surrette 2023. Cell DIVE Platform | Accessing HuBMAP Datasets and Analysis on Globus. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.14egn2qwp5d/v1>

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working
We use this protocol and it's working

Created: Apr 11, 2023

Last Modified: Apr 25, 2023

PROTOCOL integer ID:
80327

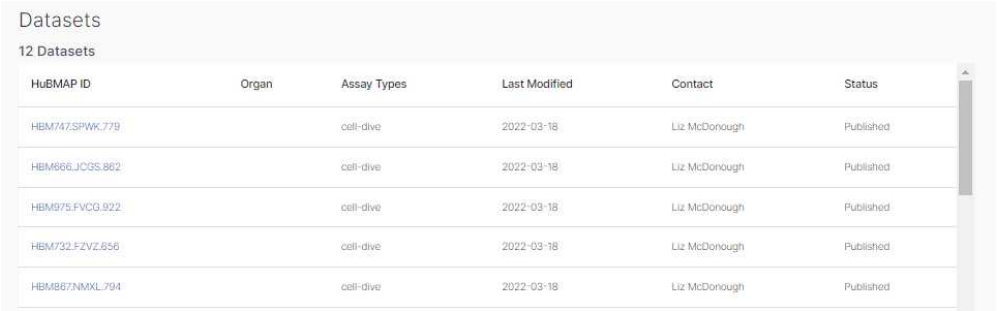
Keywords: Cell DIVE, HuBMAP, data, analysis, Globus

ABSTRACT

This method describes navigating to Globus from the HuBMAP data portal to access Cell DIVE data and analysis.

- 1 Click on the DOI link provided, or alternatively navigate to <http://dx.doi.org>, enter the DOI in the text box, and click **Go**.

- 2 If the DOI takes you to a [Collection](#) on the HuBMAP Data Portal, click on a HuBMAP ID of interest, located under the **Dataset** heading.



12 Datasets					
HuBMAP ID	Organ	Assay Types	Last Modified	Contact	Status
HBM747.SPWK.779		cell-dive	2022-03-18	Liz McDonough	Published
HBM666.JCGS.862		cell-dive	2022-03-18	Liz McDonough	Published
HBM975.FVCG.922		cell-dive	2022-03-18	Liz McDonough	Published
HBM732.FZVZ.656		cell-dive	2022-03-18	Liz McDonough	Published
HBM867.NMXL.794		cell-dive	2022-03-18	Liz McDonough	Published

Image 1. Example Dataset listing from a Cell DIVE HuBMAP Collection.

- 3 On the Dataset page, scroll down to the **Files** heading and click the provided link to Globus.

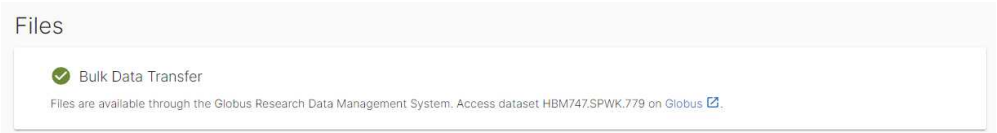


Image 2. A link to the dataset on Globus is provided under the **Files** heading of the Dataset page on the HuBMAP portal.

- 4 Log in to Globus using your existing organizational login e.g., university, national lab, facility, project, or eRA Commons ID.

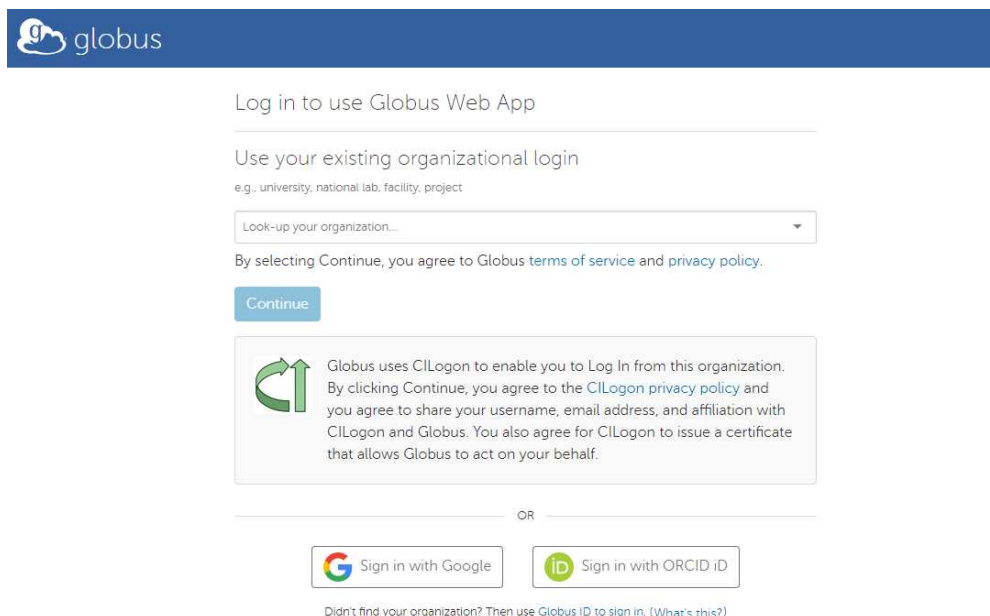


Image 3. Overview of the Globus log in page.

- 5 The Cell DIVE datasets are organized under two top level directories, **data_directory** and **extras**. The **data_directory** contains OME-TIFF data organized by region. The **extras** folder contains additional files including virtual H&Es and analysis data.

	data_directory	7/28/2021, 08:44 PM	—
	extras	3/1/2022, 07:03 AM	—
	ge_antibodies.tsv	8/31/2021, 11:44 AM	3.69 KB
	ge_contributors.tsv	6/1/2021, 08:23 PM	841 B
	ge_metadata.tsv	7/13/2021, 01:20 PM	816 B
	validation_report.txt	9/23/2021, 02:32 PM	11 B

Image 4. High level overview of a Cell DIVE dataset on Globus.

- 6 To access analysis, click through to the **extras/Seg_Reg** sublevel directory. Analysis is organized by biomarker.













NAME ▾	LAST MODIFIED	SIZE	
 AE	2/28/2022, 08:32 PM	—	>
 AF	2/28/2022, 08:34 PM	—	>
 CD3	2/28/2022, 08:32 PM	—	>
 CD31	2/28/2022, 08:31 PM	—	>
 CD4	2/28/2022, 08:30 PM	—	>
 CD68	2/28/2022, 08:31 PM	—	>
 CD8	2/28/2022, 08:27 PM	—	>
 DAPI	2/28/2022, 08:31 PM	—	>
 DDB2	2/28/2022, 08:26 PM	—	>
 FOXP3	2/28/2022, 08:31 PM	—	>
 KI67	2/28/2022, 08:25 PM	—	>
 P53	2/28/2022, 08:24 PM	—	>

Image 5. Example contents of a Seg_Reg folder within the extras directory of a Cell DIVE dataset on Globus.