

# BigBrain Data Processing with CBRAIN and DataLad Hands-On Session

7<sup>th</sup> BigBrain Workshop  
October 4, 2023  
Reykjavik, Iceland

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McGill University

# Exercises Outline

→ **Part 1:** NeuroHub and CBRAIN (40 - 45')

→ **Part 2:** DataLad and Boutiques (25 - 30')

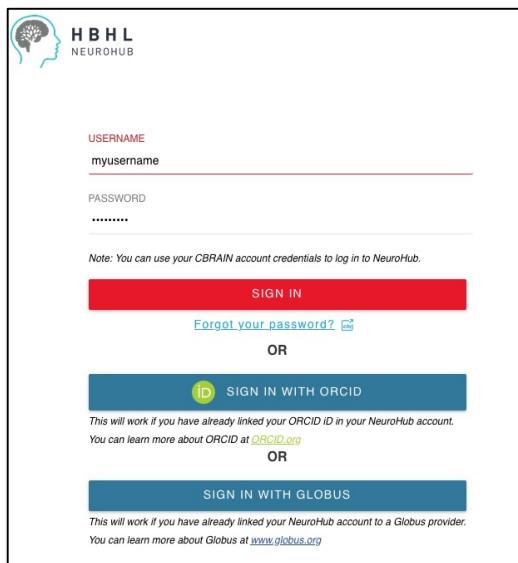
# CBRAIN Exercises

- **Exercise 1:** Connect to NeuroHub, navigate to the BigBrain dataset in CBRAIN
- **Exercise 2:** Launch BigBrainWarp on 1 file
- **Exercise 3:** Monitor task
- **Exercise 4:** Explore results
- **Exercise 5 (Optional):** Launch BigBrainWarp on multiple files
- **Exercise 6 (Optional):** Download the results
- **Exercise 7 (Demonstration):** Launching tasks on the Jureca system in Jülich

# Account Request and Setup

<https://portal.neurohub.ca>

- Already have an account?
  - **Sign-in**
- Do not yet have an account?
  - **Request an account**



# Setup (Exercise 1)

The screenshot shows the NeuroHub dashboard for user bcaron. The top navigation bar includes links for Dashboard (highlighted in red), Projects, Storage, Messages (with 24 notifications), My Account, Documentation, and Logout. A search bar at the top right allows searching for files, tasks, and projects.

The main content area features a "Welcome bcaron" message and a "NeuroHub News" section. The news items are:

- UK Biobank CIVET outputs now include AAL and DKT40 atlases**  
(Posted: April 20, 2023)  
All 43732 CivetOutputs have been extended with the AAL and DKT atlases.  
That includes 39199 outputs for session-2, and 4533 outputs for session-3.
- New UK Biobank CIVET outputs available**  
(Posted: March 29, 2023)  
The original set of 39,207 CIVET outputs of the UK Biobank were constructed for participants with session 2 scans.  
We have just added 4,533 CIVET outputs for the participants with session 3 scans.
- Reminder - Summary List of Available Datasets and Tools**  
(Posted: October 23, 2022)  
The list of tools and datasets available in NeuroHub can be easily accessed at the link [here](#).
- New CONP Datasets Added**

To the right of the news items is a "Latest Tasks" table:

Latest Tasks					
<a href="#">Hippunfold...</a>	8	bcaron	Completed	<a href="#">Caron - BigBrain Rese...</a>	2023-09-22 14:10:02 EDT
<a href="#">Hippunfold...</a>	8	bcaron	Completed	<a href="#">Caron - BigBrain Rese...</a>	2023-09-21 23:28:19 EDT
<a href="#">Hippunfold...</a>	8	bcaron	Failed On Cluster	<a href="#">Caron - BigBrain Rese...</a>	2023-09-21 22:05:59 EDT
<a href="#">Hippunfold...</a>	8	bcaron	Failed On Cluster	<a href="#">Caron - BigBrain Rese...</a>	2023-09-21 21:55:19 EDT
<a href="#">Dcm2nii@C...</a>	8	bcaron	Completed	<a href="#">bcaron Cardiac Project</a>	2023-09-01 11:59:03 EDT

# Setup (Exercise 1)

NeuroHub Dashboard My Account Projects Messages (24) Resources Support Forum Rev: 6.3.0-329 (last updated 2m ago) Logged in as Bryan Caron Sign out

## cbrain - List of tools and datasets

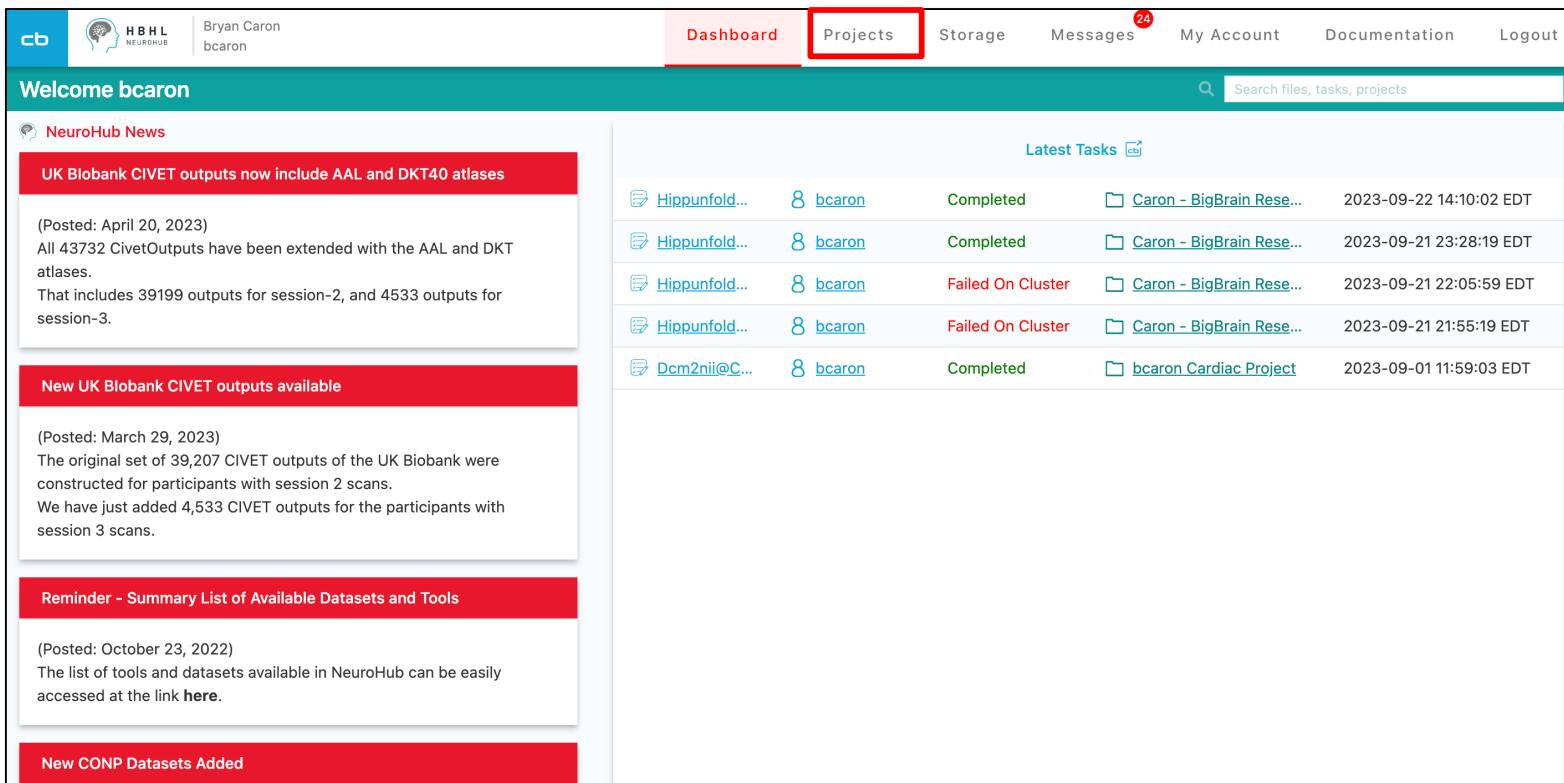
Search for anything

These tables list all tools and datasets configured on this CBRAIN portal. Not all of them are available to all users.

Tools	Datasets
CONP-1000-Genomes (more)	Generally open
CONP-AlzheimerMouse (more)	Generally open
CONP-BigBrain (more)	Generally open
CONP-BigBrain-3D-ROIs (more)	Generally open
CONP-BigBrain-3DClassifiedVolumes (more)	Generally open
CONP-BigBrain-3DSurfaces (more)	Generally open
CONP-BigBrain-A3D (more)	Generally open
CONP-BigBrain-HipSeg (more)	Generally open
CONP-BigBrain-LayerSeg (more)	Generally open
CONP-BigBrain-MRISIM (more)	Generally open
CONP-BigBrain-RawData (more)	Generally open
CONP-BigBrain-SurfParcels (more)	Generally open
CONP-BigBrainMRICoreg (more)	Generally open
CONP-BrainSpan (more)	Generally open
CONP-Calgary-Campinas (more)	Generally open
CONP-CalgaryPreschool (more)	Generally open
CONP-CFMM-7T (more)	Generally open
CONP-Chol-Def-Mouse (more)	Generally open
CONP-Chol-Striatal (more)	Generally open
CONP-HCPUR100 (more)	Generally open
CONP-HippoUnfold (more)	Generally open
CONP-Human-Ref-Genome (more)	Generally open
CONP-LearnNat (more)	Generally open
Abide-BIDs (more)	Restricted/on demand
CBIGR-3HAC (more)	Restricted/on demand
CBIGR-ALD (more)	Restricted/on demand
CBIGR-ALS (more)	Restricted/on demand
CBIGR-ALSRDEM (more)	Restricted/on demand
CBIGR-AMU (more)	Restricted/on demand
CBIGR-ANE (more)	Restricted/on demand
CBIGR-AOIPSO (more)	Restricted/on demand
CBIGR-AUDS (more)	Restricted/on demand
CBIGR-AVMA (more)	Restricted/on demand
CBIGR-BGAN (more)	Restricted/on demand
CBIGR-BI1DS (more)	Restricted/on demand
CBIGR-BI2DS (more)	Restricted/on demand
CBIGR-BIAEDS (more)	Restricted/on demand
CBIGR-CAN (more)	Restricted/on demand
CBIGR-CEDY (more)	Restricted/on demand
CBIGR-CEHO (more)	Restricted/on demand
CBIGR-CFA (more)	Restricted/on demand
CBIGR-CHI1 (more)	Restricted/on demand
CBIGR-CMID (more)	Restricted/on demand
CBIGR-COAWTIPD (more)	Restricted/on demand
CBIGR-CODVMY (more)	Restricted/on demand
CBIGR-COHYP (more)	Restricted/on demand

<https://portal.neurohub.ca/available>

# Setup (Exercise 1)



The screenshot shows the NeuroHub dashboard interface. At the top, there is a navigation bar with links for Dashboard, Projects (which is highlighted with a red box), Storage, Messages (with a '24' notification badge), My Account, Documentation, and Logout. Below the navigation bar is a search bar labeled "Search files, tasks, projects".

The main content area is titled "Welcome bcaron". It features a "NeuroHub News" section with four items:

- UK Biobank CIVET outputs now include AAL and DKT40 atlases**  
(Posted: April 20, 2023)  
All 43732 CivetOutputs have been extended with the AAL and DKT atlases.  
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The list of tools and datasets available in NeuroHub can be easily accessed at the link [here](#).
- New CONP Datasets Added**

To the right of the news items is a "Latest Tasks" section with a table:

Latest Tasks					
<a href="#">Hippunfold...</a>	8	bcaron	Completed	<a href="#">Caron - BigBrain Rese...</a>	2023-09-22 14:10:02 EDT
<a href="#">Hippunfold...</a>	8	bcaron	Completed	<a href="#">Caron - BigBrain Rese...</a>	2023-09-21 23:28:19 EDT
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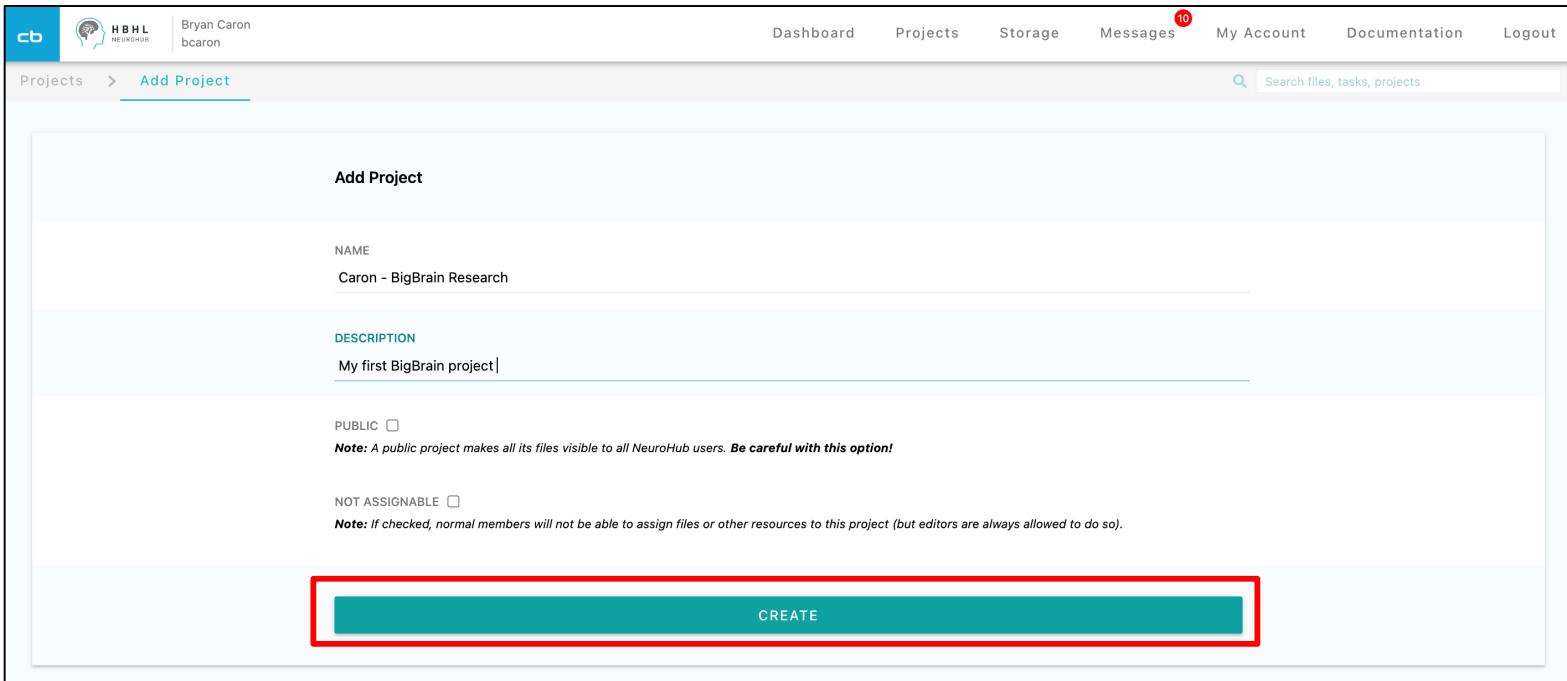
# Setup (Exercise 1)

The screenshot shows the NeuroHub interface with the 'Projects' tab selected. A red box highlights the '+ ADD PROJECT' button. Below it, there are four project cards:

- HCP\_1200\_Squash** by admin\_prioux: Dataset HCP\_1200 access, squashfs filesystem. Contact support@neurohub.ca if you are interested in accessing these files. Files: 1113, Tasks: 0, Users: 432.
- NeuroHub-UK-Biobank** by dquesnel: UK BioBank datasets on NeuroHub. Contains: 40,000 NII files, 40,000 MINC files, 40,000 BIDS Subjects, 40,000 CivetOutputs. Please do not copy large sections of these datasets; if you need help extracting information out of them, contact us, we will prepare subsets for you. Files: 164769, Tasks: 78870, Users: 68. A 'PRIVATE' label is visible.
- bcaron** by admin: Files: 103, Tasks: 130, Users: 1.
- bcaron Test Project** by bcaron: My test project. Files: 0, Tasks: 0, Users: 1.

At the top right, there is a search bar and a message count of 11. Navigation links include Dashboard, Storage, Messages, My Account, Documentation, and Logout.

# Setup (Exercise 1)



The screenshot shows the NeuroHub interface for adding a new project. The top navigation bar includes links for Dashboard, Projects, Storage, Messages (with 10 notifications), My Account, Documentation, and Logout. The user is currently on the 'Add Project' page, indicated by the blue underline under the 'Add Project' link in the breadcrumb trail.

The main form has the following fields:

- NAME:** Caron - BigBrain Research
- DESCRIPTION:** My first BigBrain project|
- PUBLIC:**  Note: A public project makes all its files visible to all NeuroHub users. Be careful with this option!
- NOT ASSIGNABLE:**  Note: If checked, normal members will not be able to assign files or other resources to this project (but editors are always allowed to do so).

A large teal button labeled "CREATE" is at the bottom of the form, enclosed in a red rectangular box.

# Setup (Exercise 1)

The screenshot shows the BigBrain Research project dashboard. At the top, there is a navigation bar with links for Dashboard, Projects, Storage, Messages (with 10 notifications), My Account, Documentation, and Logout. A red box highlights the 'Dashboard' button. Below the navigation bar, a green banner displays a success message: 'Project Caron - BigBrain Research was successfully created'. To the right of the banner is a search bar labeled 'Search files, tasks, projects'. The main content area features several buttons: 'INVITE OTHER USERS', 'UPLOAD FILE', 'EDIT', '+ ADD LICENSE', '+ ADD STORAGE', and '- DELETE'. Below these buttons are four status indicators: 'FILES' (0), 'TASKS' (0), 'MEMBER | EDITORS' (1), and 'PENDING INVITES' (0). The project details section includes fields for NAME ('Caron - BigBrain Research'), MAINTAINER ('bcaron'), TYPE ('My Work Project'), and DESCRIPTION ('My first BigBrain project'). The MEMBERS section lists 'bcaron' as the maintainer with 'ACCESS' status.

MEMBERS	ACCESS
bcaron	MAINTAINER

# Setup (Exercise 1)

The screenshot shows the NeuroHub dashboard interface. At the top, there is a navigation bar with links for Dashboard, Projects, Storage, Messages (with a red notification badge showing 24), My Account, Documentation, and Logout. A search bar is located at the top right, containing the text "CONP-BigBrain".

The main content area includes a "Welcome bcaron" message and a "NeuroHub News" section. The news section contains three items:

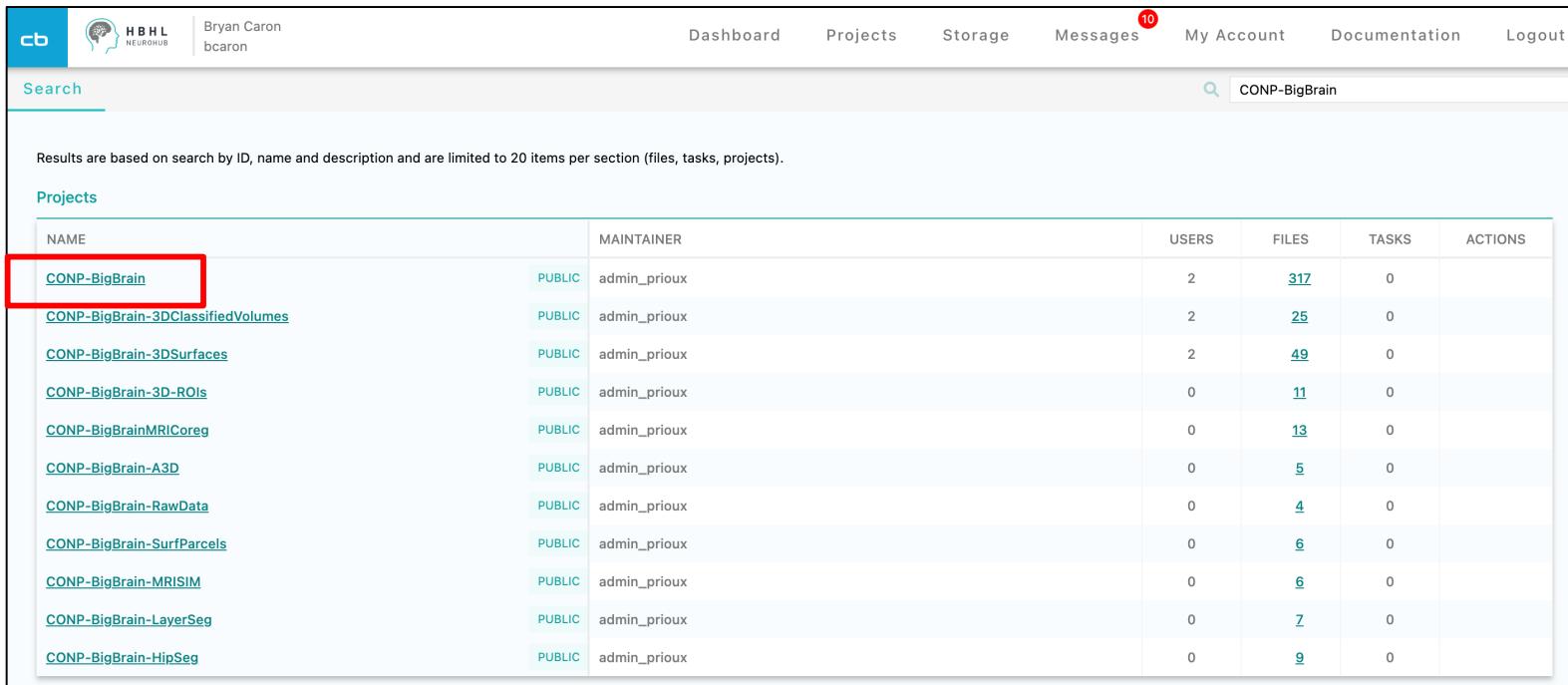
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Below the news section, there is a "Latest Tasks" table:

Latest Tasks					
<a href="#">Hippunfold...</a>	8	bcaron	Completed	<a href="#">Caron - BigBrain Rese...</a>	2023-09-22 14:10:02 EDT
<a href="#">Hippunfold...</a>	8	bcaron	Completed	<a href="#">Caron - BigBrain Rese...</a>	2023-09-21 23:28:19 EDT
<a href="#">Hippunfold...</a>	8	bcaron	Failed On Cluster	<a href="#">Caron - BigBrain Rese...</a>	2023-09-21 22:05:59 EDT
<a href="#">Hippunfold...</a>	8	bcaron	Failed On Cluster	<a href="#">Caron - BigBrain Rese...</a>	2023-09-21 21:55:19 EDT
<a href="#">Dcm2nii@C...</a>	8	bcaron	Completed	<a href="#">bcaron Cardiac Project</a>	2023-09-01 11:59:03 EDT

At the bottom left, there is a message: "New CONP Datasets Added".

# Setup (Exercise 1)



Results are based on search by ID, name and description and are limited to 20 items per section (files, tasks, projects).

Projects

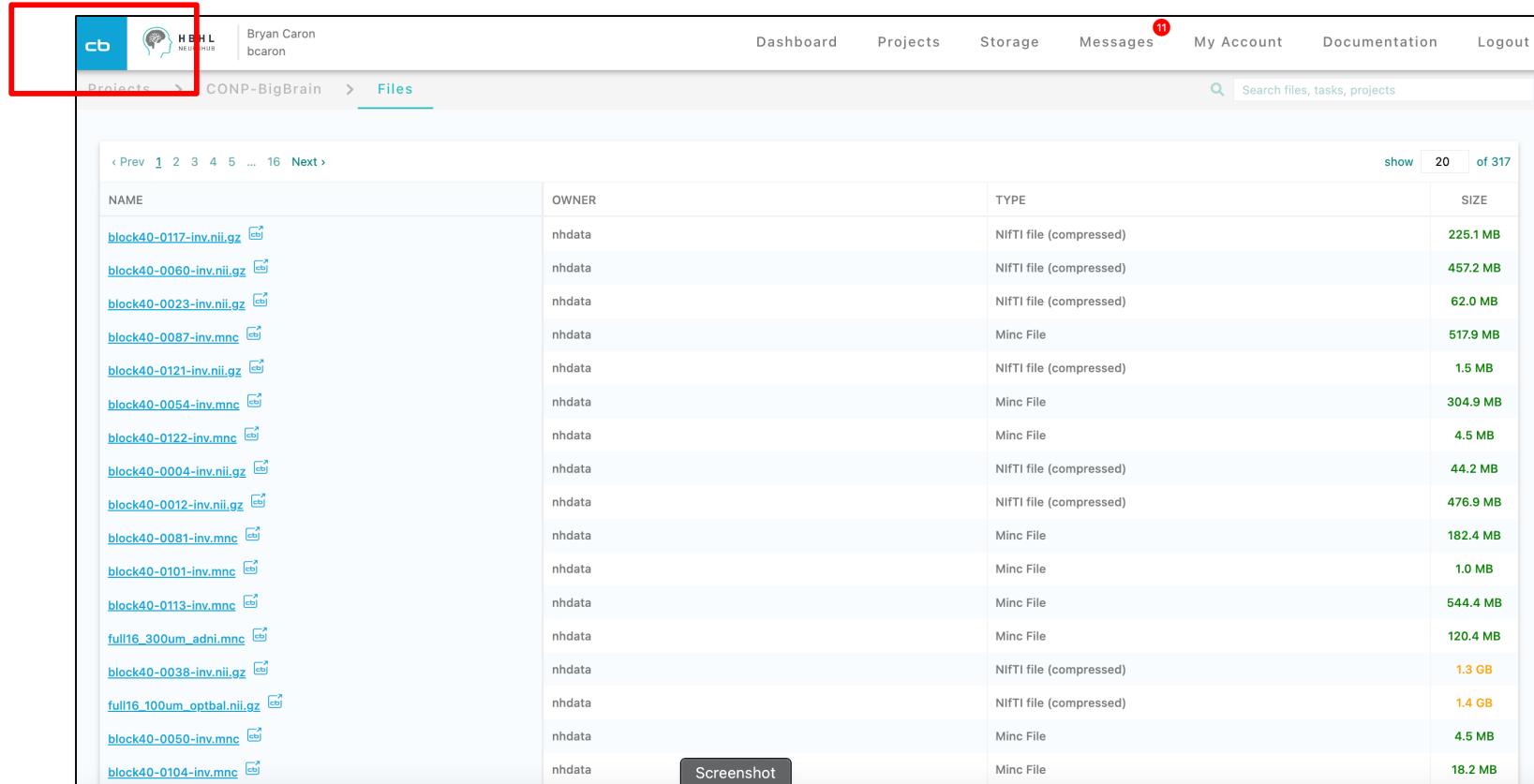
NAME	MAINTAINER	USERS	FILES	TASKS	ACTIONS
<a href="#">CONP-BigBrain</a>	PUBLIC admin_prioux	2	<a href="#">317</a>	0	
<a href="#">CONP-BigBrain-3DClassifiedVolumes</a>	PUBLIC admin_prioux	2	<a href="#">25</a>	0	
<a href="#">CONP-BigBrain-3DSurfaces</a>	PUBLIC admin_prioux	2	<a href="#">49</a>	0	
<a href="#">CONP-BigBrain-3D-ROIs</a>	PUBLIC admin_prioux	0	<a href="#">11</a>	0	
<a href="#">CONP-BigBrainMRICoreg</a>	PUBLIC admin_prioux	0	<a href="#">13</a>	0	
<a href="#">CONP-BigBrain-A3D</a>	PUBLIC admin_prioux	0	<a href="#">5</a>	0	
<a href="#">CONP-BigBrain-RawData</a>	PUBLIC admin_prioux	0	<a href="#">4</a>	0	
<a href="#">CONP-BigBrain-SurfParcels</a>	PUBLIC admin_prioux	0	<a href="#">6</a>	0	
<a href="#">CONP-BigBrain-MRISIM</a>	PUBLIC admin_prioux	0	<a href="#">6</a>	0	
<a href="#">CONP-BigBrain-LayerSeg</a>	PUBLIC admin_prioux	0	<a href="#">7</a>	0	
<a href="#">CONP-BigBrain-HipSeg</a>	PUBLIC admin_prioux	0	<a href="#">9</a>	0	

# Setup (Exercise 1)

The screenshot shows the NeuroHub interface for the 'CONP-BigBrain' project. At the top, there's a navigation bar with links for Dashboard, Projects, Storage, Messages (with a red notification badge showing 10), My Account, Documentation, and Logout. Below the navigation is a search bar labeled 'Search files, tasks, projects'. The main content area displays project statistics: 317 FILES (highlighted with a red box), 0 TASKS, 2 MEMBERS | EDITORS: 1, and 0 PENDING INVITES. The project details section includes fields for NAME (CONP-BigBrain), MAINTAINER (admin\_prioux), TYPE (Public Project), and DESCRIPTION (Access to files in the BigBrain datasets obtained from CONP. Public.). The MEMBERS section shows a table:

MEMBERS	ACCESS
admin_prioux	MAINTAINER
nhdata	

# Setup (Exercise 1)



The screenshot shows a user interface for managing files in a project. At the top, there's a navigation bar with links for Dashboard, Projects, Storage, Messages (with 11 notifications), My Account, Documentation, and Logout. The user is currently viewing the 'Files' section of the 'CONP-BigBrain' project. A search bar at the top right allows users to search for files, tasks, or projects. Below the search bar, there are pagination controls ('< Prev 1 2 3 4 5 ... 16 Next >') and a dropdown to 'show 20 of 317' files.

NAME	OWNER	TYPE	SIZE
<a href="#">block40-0117-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	225.1 MB
<a href="#">block40-0060-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	457.2 MB
<a href="#">block40-0023-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	62.0 MB
<a href="#">block40-0087-inv.mnc</a>	nhdata	Minc File	517.9 MB
<a href="#">block40-0121-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	1.5 MB
<a href="#">block40-0054-inv.mnc</a>	nhdata	Minc File	304.9 MB
<a href="#">block40-0122-inv.mnc</a>	nhdata	Minc File	4.5 MB
<a href="#">block40-0004-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	44.2 MB
<a href="#">block40-0012-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	476.9 MB
<a href="#">block40-0081-inv.mnc</a>	nhdata	Minc File	182.4 MB
<a href="#">block40-0101-inv.mnc</a>	nhdata	Minc File	1.0 MB
<a href="#">block40-0113-inv.mnc</a>	nhdata	Minc File	544.4 MB
<a href="#">full16_300um_adni.mnc</a>	nhdata	Minc File	120.4 MB
<a href="#">block40-0038-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	1.3 GB
<a href="#">full16_100um_optbal.nii.gz</a>	nhdata	NIfTI file (compressed)	1.4 GB
<a href="#">block40-0050-inv.mnc</a>	nhdata	Minc File	4.5 MB
<a href="#">block40-0104-inv.mnc</a>	nhdata	Minc File	18.2 MB

A 'Screenshot' button is located at the bottom right of the table area.

# Setup (Exercise 1)

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 1m ago) Logged in as Bryan Caron Sign out

## cbrain - CONP-BigBrain - Files

Files Tasks

▶ Launch ↑ Upload More... Search for anything

0 files currently selected (select all, clear) ( 317 entries , 112.5 GB ) Search by name: 25 per page.

← Previous 1 2 3 4 5 6 7 8 9 ... 12 13 Next →

Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description	...
block40-0117-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	225.1 MB		Read Only	CONP-BigBrain		...
block40-0060-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	457.2 MB		Read Only	CONP-BigBrain		...
block40-0023-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	62.0 MB		Read Only	CONP-BigBrain		...
block40-0087-inv.mnc	Minc File	nhdata	2021-01-26	517.9 MB		Read Only	CONP-BigBrain		...
block40-0121-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.5 MB		Read Only	CONP-BigBrain		...
block40-0054-inv.mnc	Minc File	nhdata	2021-01-26	304.9 MB		Read Only	CONP-BigBrain		...
block40-0122-inv.mnc	Minc File	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain		...
block40-0004-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	44.2 MB		Read Only	CONP-BigBrain		...
block40-0012-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	476.9 MB		Read Only	CONP-BigBrain		...
block40-0081-inv.mnc	Minc File	nhdata	2021-01-26	182.4 MB		Read Only	CONP-BigBrain		...
block40-0101-inv.mnc	Minc File	nhdata	2021-01-26	1.0 MB		Read Only	CONP-BigBrain		...
block40-0113-inv.mnc	Minc File	nhdata	2021-01-26	544.4 MB		Read Only	CONP-BigBrain		...
full16_300um_adni.mnc	Minc File	nhdata	2021-01-26	120.4 MB		Read Only	CONP-BigBrain		...
block40-0038-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.3 GB		Read Only	CONP-BigBrain		...
block40-0050-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.4 GB		Read Only	CONP-BigBrain		...
block40-0050-inv.mnc	Minc File	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain		...

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cbrain - CONP-BigBrain - Files

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block40-0117-inv.nii.gz	Minc File	nhdata	2021-01-26	225.1 MB		Read Only	CONP-BigBrain	...
block40-0060-inv.nii.gz	Image File (of 1)	nhdata	2021-01-26	457.2 MB		Read Only	CONP-BigBrain	...
block40-0023-inv.nii.gz	Json File (of 1)	nhdata	2021-01-26	62.0 MB		Read Only	CONP-BigBrain	...
block40-0087-inv.mnc	Minc File (of 156)	nhdata	2021-01-26	62.0 MB		Read Only	CONP-BigBrain	...
block40-0121-inv.nii.gz	NIFTI file (of 154)	nhdata	2021-01-26	517.9 MB		Read Only	CONP-BigBrain	...
block40-0054-inv.mnc	Single File (of 5)	nhdata	2021-01-26	1.5 MB		Read Only	CONP-BigBrain	...
block40-0122-inv.mnc	Minc File	nhdata	2021-01-26	304.9 MB		Read Only	CONP-BigBrain	...
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block40-0050-inv.mnc	NIFTI file (compressed)	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain	...

Filter - File Type Minc File

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cbrain - CONP-BigBrain - Files

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0 files currently selected (select all, clear) ( 317 entries , 112.5 GB )

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block40-0054-inv.mnc	Single File (of 5)	nhdata	2021-01-26	1.5 MB		Read Only	CONP-BigBrain	...
block40-0122-inv.mnc	Minc File	nhdata	2021-01-26	304.9 MB		Read Only	CONP-BigBrain	...
block40-0004-inv.nii.gz	Minc File	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain	...
block40-0012-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	44.2 MB		Read Only	CONP-BigBrain	...
block40-0081-inv.mnc	NIFTI file (compressed)	nhdata	2021-01-26	476.9 MB		Read Only	CONP-BigBrain	...
block40-0101-inv.mnc	Minc File	nhdata	2021-01-26	182.4 MB		Read Only	CONP-BigBrain	...
block40-0113-inv.mnc	Minc File	nhdata	2021-01-26	1.0 MB		Read Only	CONP-BigBrain	...
full16_300um_adni.mnc	Minc File	nhdata	2021-01-26	544.4 MB		Read Only	CONP-BigBrain	...
full16_300um_adni.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	120.4 MB		Read Only	CONP-BigBrain	...
full16_100um_optbal.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.3 GB		Read Only	CONP-BigBrain	...
full16_100um_optbal.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.4 GB		Read Only	CONP-BigBrain	...
block40-0050-inv.mnc	Minc File	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain	...

Filter - File Type x

Search by name: full18\_

# Setup (Exercise 1)

The screenshot shows the NeuroHub interface for the cbrain - CONP-BigBrain - Files section. The top navigation bar includes links for NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, Support Forum, and Sign out. The main title is "cbrain - CONP-BigBrain - Files". Below the title, there are two tabs: "Files" (selected) and "Tasks". A toolbar provides options for Launch, Upload, Download, Copy, Move, Rename, Compress, Uncompress, and Delete, along with a "More..." button.

An "Active Filters" bar is highlighted with a red box, showing "Type: Minc File" and "Name: like full8\_". Below it, a message indicates "1 files currently selected (select all, clear)".

The main content area displays a table of 13 entries, each representing a Minc file. The columns include: Filename, File Type, Owner, Creation Date, Size, Tags, Project Access, Provider, and Description. The table shows various file names such as "full8\_100um\_adni.mnc", "full8\_200um\_adni.mnc", etc., with sizes ranging from 7.9 MB to 1.1 GB. The file "full8\_200um\_optbal.mnc" is highlighted with a red box in both the filter bar and the list.

At the bottom of the table, there is a note about synchronization symbols: ✓: InSync, +: ProvNewer, -: CacheNewer, ✘: Corrupted, ↴: ToCache, ↤: ToProvider. The footer also includes a "Powered by CBRAIN" link and a "Credits" link.

Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description
full8_100um_adni.mnc	Minc File	nhdata	2021-01-26	1.1 GB		Read Only	CONP-BigBrain	...
full8_200um_adni.mnc	Minc File	nhdata	2021-01-26	151.0 MB		Read Only	CONP-BigBrain	...
full8_400um_optbal.mnc	Minc File	nhdata	2021-01-26	10.3 MB		Read Only	CONP-BigBrain	...
full8_1000um_optbal.mnc	Minc File	nhdata	2021-01-26	751.8 kB		Read Only	CONP-BigBrain	...
full8_200um_optbal.mnc	Minc File	nhdata	2021-01-26	77.9 MB		Read Only	CONP-BigBrain	...
full8_200um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	156.4 MB		Read Only	CONP-BigBrain	...
full8_100um_optbal.mnc	Minc File	nhdata	2021-01-26	603.9 MB		Read Only	CONP-BigBrain	...
full8_400um_adni.mnc	Minc File	nhdata	2021-01-26	20.9 MB		Read Only	CONP-BigBrain	...
full8_400um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	21.5 MB		Read Only	CONP-BigBrain	...
full8_300um_optbal.mnc	Minc File	nhdata	2021-01-26	23.8 MB		Read Only	CONP-BigBrain	...
full8_300um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	48.7 MB		Read Only	CONP-BigBrain	...
full8_100um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	1.1 GB		Read Only	CONP-BigBrain	...
full8_300um_adni.mnc	Minc File	nhdata	2021-01-26	47.2 MB		Read Only	CONP-BigBrain	...

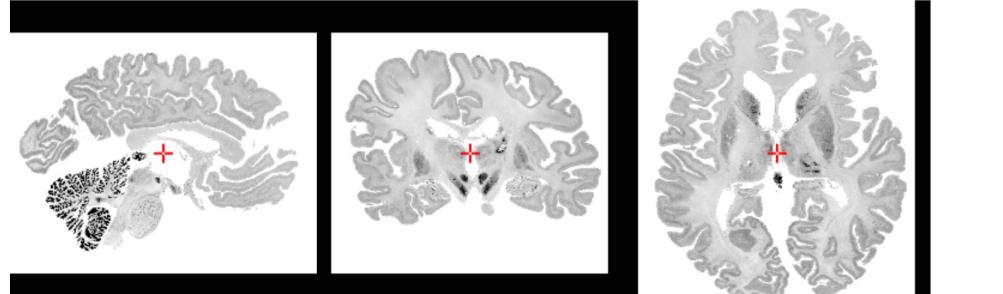
# Setup (Exercise 1)

Info

Name:	full8_200um_optbal.mnc	Created at:	2021-01-26 15:51:53 EST (1 year, 8 months and 3 weeks ago)
Type:	Minc File	Modified at:	2021-01-26 15:52:08 EST (1 year, 8 months and 3 weeks ago)
Size:	77.9 MB = 77899827 bytes	Data Provider:	CONP-BigBrain ( FlatDirSmartDataProvider ) Cached: ✓✓
Owner:	nhdata	Project:	CONP-BigBrain
Tags:	Project permission on file: Read		
Hidden file:	<input type="checkbox"/> H	Immutable file:	<input type="checkbox"/> I
Zenodo Publication:	None.		
Description:			

Content

Change view: Volume Viewer



Voxel Coordinates:  
I: 385 J: 302 K: 348

World Coordinates:  
X: -1.06660 Y: 4.09000 Z: 1.62230

Value: 65535

Color Map: Gray

Threshold:

0 65535

All slices:  
 Sagittal  Coronal  Transverse

# Launch BigBrainWarp (Exercise 2)

The screenshot shows the NeuroHub interface with the cbrain section active. The title bar includes 'Dashboard', 'My Account', 'Projects', 'Messages (11)', 'Resources', 'Support Forum', 'Rev: 6.2.0-281', '(last updated 0m ago)', 'Logged in as Bryan Caron', and 'Sign out'. The search bar says 'Search for anything'. The main area is titled 'CONP-BigBrain - Files' and has tabs 'Files' and 'Tasks'. The toolbar includes 'Launch', 'Upload', 'Download', 'Copy', 'Move', 'Rename', 'Compress', 'Uncompress', and 'Delete'. Active filters are set to 'Type: Minc File' and 'Name: like full8\_'. A message indicates '1 files currently selected (select all, clear)'. The table lists 13 entries, each with a checkbox, filename, file type, owner, creation date, size, tags, project access, provider, and a more button. The selected file, 'full8\_200um\_optbal.mnc', is highlighted with a red box. The bottom of the table shows synchronization symbols and credits.

File Type	Owner	Creation Date	Size	Tags	Project Access	Provider
Minc File	nhdata	2021-01-26	1.1 GB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	151.0 MB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	10.3 MB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	751.8 kB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	77.9 MB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	156.4 MB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	603.9 MB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	20.9 MB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	21.5 MB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	23.8 MB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	48.7 MB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	1.1 GB		Read Only	CONP-BigBrain
Minc File	nhdata	2021-01-26	47.2 MB		Read Only	CONP-BigBrain

# Launch BigBrainWarp (Exercise 2)

The screenshot shows the NeuroHub interface for the cbrain platform. The main window displays a list of files, with two files selected: 'prioux\_freesurfer\_license.txt' and 'freesurfer\_license.txt'. A search bar at the top left contains the query 'bigbrain'. A modal window titled 'Select Tool' is open, showing search results for 'BigBrainWarp'. The tool details include its tags ('neuroinformatics'), server version ('August-2022'), and a 'Launch bigbrainwarp' button. The entire 'Select Tool' modal is highlighted with a red box.

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

cbrain - All - Files

Files Tasks

Launch Upload Download Copy

Active Filters (clear) Name: like freesurfer\_license

2 files currently selected (select all, clear)

Filename	File Type	Owner
prioux_freesurfer_license.txt	FreeSurfer License	prioux
prioux_freesurfer_license.txt	Text File	bcaron
freesurfer_license.txt	Text File	bcaron

Search for anything

Select Tool

Search: bigbrain

All tools

Type:

- Anatomical
- Imaging
- Conversion
- System
- DTI
- Genomics
- Functional
- EEG
- scientific
- extraction

Software Package:

- MNI
- FSL
- Experimental
- MincToolkit
- CBRAIN
- FreeSurfer
- QEEGt

Tags:

- minc
- maz

Tools:

**BigBrainWarp**

Tags: neuroinformatics

Server & Version:

August-2022

Last wait time: 25 seconds (instant)  
(This happened 11 minutes and 48 seconds ago) [more info](#)

Launch bigbrainwarp

More...

Search by name: 25 per page.

Select Access Provider Description +

Only MainStore ...

Only MainStore ...

Only MainStore ...

Provider

# Launch BigBrainWarp (Exercise 2)

**Task Control:** (show/hide)

**Server & Version:** August-2022

**Save results to:** MainStore (info)

**Owner:** bcaron (Bryan Caron)

**Project:** Caron - BigBrain Research

**Description:** (This first line should be a short summary, and the rest are your notes)

**Task Parameters (Help) :**

**Input space (--in\_space) (--in\_space) \***  
icbm

**Output space (--out\_space) (--out\_space) \***  
bigbrainsym

**Descriptor of input (--desc) \***  
Bryan-BigBrainWarp-Test-20221024-200  
descriptor of input data, which will be used to name the output

**Freesurfer license \***  
freesurfer\_license.txt  
To use FreeSurfer license file, it must be provided by the user. It can be obtained by filling out this form: <https://surfer.nmr.mgh.harvard.edu/registration.html>.

**Inputs**  
Requires either in\_vol, or in\_lh and in\_rh

**Input volume (--in\_vol) (--in\_vol)**  
 full8\_200um\_optbal.mnc  
Path to input data, whole brain volume. Permitted formats: mnc, nii or nii.gz

**Input left hemisphere (--in\_lh) (--in\_lh)**  
Path to input data, left hemisphere surface. Permitted formats: label.gii, annot, shape.gii, curv or txt

**Input right hemisphere (--in\_rh) (--in\_rh)**  
Path to input data, right hemisphere surface. Permitted formats: label.gii, annot, shape.gii, curv or txt

**Extra parameters**  
Extra arguments

**Start BigBrainWarp**

# Monitor BigBrainWarp (Exercise 3)

The screenshot shows the cbrain interface for monitoring tasks. At the top, there's a navigation bar with links like NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, Support Forum, and a status message "(last updated 0m ago) Logged in as Bryan Caron Sign out". Below the navigation is a search bar labeled "Search for anything". The main title is "cbrain - All - Tasks" with tabs for "Files" and "Tasks" (which is selected). A green banner at the top says "Launching a BigBrainWarp task in background.". Below the banner are several filter buttons: "Update Attributes", "For Failed Tasks", "For Completed Tasks", "Terminating And Cleaning Up", "Archiving", and "Filters". Active filters are set to "Type: BigBrainWarp". There are buttons to "Switch to List View" and "Switch to Grid View". The table below shows four tasks:

Task Type	Version	Description	Owner	Project	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022		bcaron	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 11:44:01 EDT	2022-10-20 11:47:31 EDT	...
BigBrainWarp	August-2022		bcaron	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 11:48:15 EDT	2022-10-20 11:51:49 EDT	...
BigBrainWarp	August-2022		bcaron	Caron - BigBrain Research	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...
BigBrainWarp	August-2022		bcaron	Caron - BigBrain Research	Converter-2	New	1		2022-10-20 14:34:37 EDT	2022-10-20 14:34:37 EDT	...

A red box highlights the "New" status of the last task. Below the table, it says "Workdir archiving status symbols: : On Cluster : As File". At the bottom, there are links for "Powered by CBRain" and "Credits".

# Monitor BigBrainWarp (Exercise 3)

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

cbrain - All - Tasks

Files Tasks

Update Attributes For Failed Tasks For Completed Tasks Terminating And Cleaning Up Archiving Filters

Active Filters (clear) Project: Caron - BigBrain Research Type: BigBrainWarp

Switch to List View (2 tasks) Total task space used: 621.4 MB

25 per page.

Task Type	Version	Description	Owner	Project	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022		bcaron	Caron - BigBrain Research	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...
BigBrainWarp	August-2022		bcaron	Caron - BigBrain Research	Converter-2	On CPU	1	41.0 kB	2022-10-20 14:34:37 EDT	2022-10-20 14:35:02 EDT	...

Workdir archiving status symbols: : On Cluster : As File

Powered by CBRAN Credits

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

cbrain - All - Tasks

Files Tasks

Task BigBrainWarp Completed Successfully System 2022-10-20 14:38:10 EDT Mark as Read Delete

Update Attributes For Failed Tasks For Completed Tasks Terminating And Cleaning Up Archiving Filters

Active Filters (clear) Project: Caron - BigBrain Research Type: BigBrainWarp

Switch to List View (2 tasks) Total task space used: 716.7 MB

25 per page.

Task Type	Version	Description	Owner	Project	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022		bcaron	Caron - BigBrain Research	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...
BigBrainWarp	August-2022		bcaron	Caron - BigBrain Research	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...

Workdir archiving status symbols: : On Cluster : As File

Powered by CBRAN Credits

# Explore Output (Exercise 4)

Info			
<b>Task Name:</b>	BigBrainWarp	<b>Task Description:</b>	
<b>Execution Server:</b>	<a href="#">Converter-2</a>	<b>Owner:</b>	<a href="#">bcaron</a>
<b>Tool Version:</b>	August-2022	<b>Project:</b>	<a href="#">Caron - BigBrain Research</a>
<b>Current Status:</b>	Completed	<b>Time Submitted:</b>	2022-10-20 14:34:37 EDT
<b>Run number:</b>	1	<b>Last Updated:</b>	2022-10-20 14:38:10 EDT
<b>Data Provider For Results:</b>	<a href="#">MainStore</a>	<b>Zenodo Publication:</b>	None.
<b>Size of Work Directory:</b>	95.3 MB	<b>Archiving Status:</b>	(Not archived)

# Explore Output (Exercise 4)

**Info**

<b>Task Name:</b>	BigBrainWarp	<b>Task Description:</b>	
<b>Execution Server:</b>	Converter-2	<b>Owner:</b>	bcaron
<b>Tool Version:</b>	August-2022	<b>Project:</b>	Caron - BigBrain Research
<b>Current Status:</b>	Completed	<b>Time Submitted:</b>	2022-10-20 14:34:37 EDT
<b>Run number:</b>	1	<b>Last Updated:</b>	2022-10-20 14:38:10 EDT
<b>Data Provider For Results:</b>	MainStore	<b>Zenodo Publication:</b>	None.
<b>Size of Work Directory:</b>	95.3 MB	<b>Archiving Status:</b>	(Not archived)

**Parameters**

**Summary** **Raw**

**Parameters**

```
Input space (-in_space)      icbm
Output space (-out_space)    bigbrainSym
Descriptor of input          Bryan-BigBrainWarp-Test-20221024-200
Interpolation method (-interp)
Output type (-out_type)
Output type (-out_type)
```

**Input files**

```
Freesurfer license           freesurfer_license.txt
Input volume (-in_vol)        full8_200um_optbal.mnc
Input left hemisphere (-in_lh) (None)
Input right hemisphere (-in_rh) (None)
```

**Output files**

```
Output directory              bigbrainwarp-results-2112746-1
```

**Processing Log**

```
[2022-10-20 14:34:37 EDT] BoutiquesTask::BigBrainWarp revision e4750b5f Natacha Beck 2022-10-20
[2022-10-20 14:34:36 EDT] new() cbrain_task.rb rev. ba92b49d
[2022-10-20 14:34:36 EDT] new() portal_task.rb rev. 05478d81
[2022-10-20 14:34:36 EDT] Cluster Job's Captured Output
[2022-10-20 14:34:36 EDT] Standard Out
[2022-10-20 14:34:36 EDT] Standard Error
[2022-10-20 14:34:36 EDT] CBRAIN Task Starting At 1666290891 : 2022-10-20 14:34:51
[2022-10-20 14:34:36 EDT] Input parameters:
[2022-10-20 14:34:36 EDT]   --in_space : icbm
[2022-10-20 14:34:36 EDT]   --out_space : bigbrainSym
[2022-10-20 14:34:36 EDT]   --bb_space : sym
[2022-10-20 14:34:36 EDT]   --wd : bigbrainwarp-results
[2022-10-20 14:34:36 EDT]   --desc : Bryan-BigBrainWarp-Test-20221024-200
[2022-10-20 14:34:36 EDT]   --in_vol : full8_200um_optbal.mnc
[2022-10-20 14:34:36 EDT]   --in_lh :
[2022-10-20 14:34:36 EDT]   --in_rb :
[2022-10-20 14:34:36 EDT]   --interp : trilinear
[2022-10-20 14:34:36 EDT]   --out_type : volume
[2022-10-20 14:34:36 EDT]   --out_den :
[2022-10-20 14:34:36 EDT]   --out_res : 1
[2022-10-20 14:34:36 EDT] minc image, continuing to transformation
[2022-10-20 14:34:36 EDT] Using s-form transform:
[2022-10-20 14:34:36 EDT]   1.0000, 0.0000, 0.0000, -97.7500,
[2022-10-20 14:34:36 EDT]   0.0000, 1.0000, 0.0000, -133.7500,
[2022-10-20 14:34:36 EDT]   0.0000, 0.0000, 1.0000, -71.7500,
[2022-10-20 14:34:36 EDT]   0.0000, 0.0000, 0.0000, 1.0000,
[2022-10-20 14:34:36 EDT]   xspace start: -97.7500 step: 1.0000 cosines: 1.0000 0.0000 0.0000 flip: 0
[2022-10-20 14:34:36 EDT]   yspace start: -133.7500 step: 1.0000 cosines: 0.0000 1.0000 0.0000 flip: 0
[2022-10-20 14:34:36 EDT]   zspace start: -71.7500 step: 1.0000 cosines: 0.0000 0.0000 1.0000 flip: 0
[2022-10-20 14:34:36 EDT] transform to BigBrainSym
[2022-10-20 14:34:36 EDT] employed nonlinear transformation from icbm to bigbrain
[2022-10-20 14:34:36 EDT] CBRAIN Task Ending With Status 0 After 195 seconds, at 1666291086 : 2022-10-20 14:38:06
[2022-10-20 14:34:36 EDT] CBRAIN Task CPU Times Start
[2022-10-20 14:34:36 EDT] 0m0.003s 0m0.003s
[2022-10-20 14:34:36 EDT] 1m20.520s 1m53.777s
[2022-10-20 14:34:36 EDT] CBRAIN Task CPU Times End
[2022-10-20 14:34:36 EDT] CBRAIN Task Exiting
```

# Explore Output (Exercise 4)

Info ([Edit](#))

<b>Name:</b>	bigbrainwarp-results-2112746-1	<b>Created at:</b>	2022-10-20 14:38:09 EDT (1 minute and 40 seconds ago)
<b>Type:</b>	File Collection	<b>Modified at:</b>	2022-10-20 14:38:10 EDT (1 minute and 39 seconds ago)
<b>Size:</b>	95.3 MB (3 files) = 95262415 bytes	<b>Data Provider:</b>	<a href="#">MainStore</a> ( EnCbrainSmartDataProvider ) Cached: ✓ ✓
<b>Owner:</b>	<a href="#">bcaron</a>	<b>Project:</b>	<a href="#">Caron - BigBrain Research</a>
<b>Tags:</b>		<b>Project permission on file:</b>	Read
<b>Hidden file:</b>	<input type="checkbox"/> <a href="#">H</a>	<b>Immutable file:</b>	<input type="checkbox"/> <a href="#">I</a>
<b>Zenodo Publication:</b>	None.		
<b>Parent:</b>	<a href="#">freesurfer_license.txt</a>		
<b>Description:</b>			

[prioux\\_freesurfer\\_license.txt >>](#)

Content

File	DL	Size
<a href="#">tmp_ref.mnc</a>	<a href="#">DL</a>	8.7 MB
<a href="#">tpl-bigbrain_desc-Bryan-BigBrainWarp-Test-20221024-200_sym.mnc</a>	<a href="#">DL</a>	8.7 MB
<a href="#">tpl-icbm_desc-Bryan-BigBrainWarp-Test-20221024-200.mnc</a>	<a href="#">DL</a>	77.9 MB

[Extract Files from Collection](#)

# Explore Output (Exercise 4)

Info ([Edit](#))

**Name:** bigbrainwarp-results-2112746-1    **Created at:** 2022-10-20 14:38:09 EDT (1 minute and 40 seconds ago)  
**Type:** File Collection    **Modified at:** 2022-10-20 14:38:10 EDT (1 minute and 39 seconds ago)  
**Size:** 95.3 MB (3 files) = 95262415 bytes    **Data Provider:** MainStore ( EnBrainSmartDataProvider ) Cached: ✓ ✓  
**Owner:** bcaron    **Project:** Caron - BigBrain Research  
**Tags:**  
**Hidden file:**  H    **Immutable file:**  I  
**Zenodo Publication:** None.  
**Parent:** [freesurfer\\_license.txt](#)  
**Description:**

[prioux\\_freesurfer\\_license.txt >>](#)

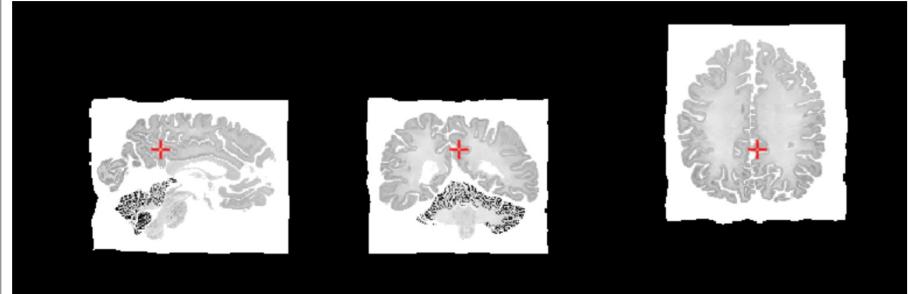
Content

	File	DL	Size
<input type="checkbox"/>	 tmp_ref.mnc	<input type="checkbox"/>	8.7 MB
<input type="checkbox"/>	 tpl-bigbrain_desc-Bryan-BigBrainWarp-Test-20221024-200_sym.mnc	<input type="checkbox"/>	8.7 MB
<input type="checkbox"/>	 tpl-icbm_desc-Bryan-BigBrainWarp-Test-20221024-200.mnc	<input type="checkbox"/>	77.9 MB

[Extract Files from Collection](#)

Extract Files from Collection

bigbrainwarp-results-2112746-1/tpl-bigbrain\_desc-Bryan-BigBrainWarp-Test-20221024-200\_sym.mnc



Voxel Coordinates:  
I: 94 J: 116 K: 98

World Coordinates:  
X: 0.250000 Y: -17.7500 Z: 22.2500

Value: 50115

Color Map: Gray

Threshold:

0      65535

All slices:  
[Sagittal](#)   [Coronal](#)   [Transverse](#)

# Launch BigBrainWarp (Optional Exercise 5)

The screenshot shows the NeuroHub interface for the cbrain - CONP-BigBrain project. The top navigation bar includes links for NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, Support Forum, and a revision number Rev: 6.2.0-281. On the right, it shows the last update time (0m ago), the user is logged in as Bryan Caron, and a Sign out link.

The main title is "cbrain - CONP-BigBrain - Files". Below it, there are two tabs: "Files" (selected) and "Tasks". A red box highlights the "Active Filters" section, which shows a filter for "Type: Minc File" and "Name: like block40-000".

The table below lists 9 entries, each representing a Minc file. The columns include: Filename, File Type, Owner, Creation Date, Size, Tags, Project Access, Provider, and Description. The "Filename" column contains links to the files, such as "block40-0005-inv.mnc".

File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description
Minc File	nhdata	2021-01-26	830.3 kB		Read Only	CONP-BigBrain	...
Minc File	nhdata	2021-01-26	161.1 MB		Read Only	CONP-BigBrain	...
Minc File	nhdata	2021-01-26	319.8 MB		Read Only	CONP-BigBrain	...
Minc File	nhdata	2021-01-26	26.2 MB		Read Only	CONP-BigBrain	...
Minc File	nhdata	2021-01-26	460.6 MB		Read Only	CONP-BigBrain	...
Minc File	nhdata	2021-01-26	4.4 MB		Read Only	CONP-BigBrain	...
Minc File	nhdata	2021-01-26	879.8 kB		Read Only	CONP-BigBrain	...
Minc File	nhdata	2021-01-26	45.1 MB		Read Only	CONP-BigBrain	...
Minc File	nhdata	2021-01-26	830.3 kB		Read Only	CONP-BigBrain	...

Synchronization symbols at the bottom: ✓: InSync, \*: ProvNewer, .: CacheNewer, ✘: Corrupted, ↴: ToCache, ↑: ToProvider.

Powered by CBRAIN Credits

# Launch BigBrainWarp (Optional Exercise 5)

The screenshot shows the NeuroHub interface for the cbrain project. The top navigation bar includes links for NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, and Support Forum, along with a revision number Rev: 6.2.0-281. The main title is "cbrain - All - Files". Below the title, there are tabs for "Files" and "Tasks", and a set of actions: Launch, Upload, Download, Copy, Move, Compress, Uncompress, and Delete. A red box highlights the "More..." button. Another red box highlights the list of selected files in the table.

Active Filters (clear) Type: Minc File & Name: like block40-000

9 files currently selected (select all, clear)

( 9 entries , 1.0 GB )

Search by name:

25 per page.

Filename	File Type	Owner	Creation Date	Size	Tags	Project	Project Access	Provider	Description	...
block40-0005-inv.mnc	Minc File	nhdata	2021-01-26	830.3 kB		CONP-BigBrain	Read Only	CONP-BigBrain		...
block40-0007-inv.mnc	Minc File	nhdata	2021-01-26	161.1 MB		CONP-BigBrain	Read Only	CONP-BigBrain		...
block40-0009-inv.mnc	Minc File	nhdata	2021-01-26	319.8 MB		CONP-BigBrain	Read Only	CONP-BigBrain		...
block40-0004-inv.mnc	Minc File	nhdata	2021-01-26	26.2 MB		CONP-BigBrain	Read Only	CONP-BigBrain		...
block40-0008-inv.mnc	Minc File	nhdata	2021-01-26	460.6 MB		CONP-BigBrain	Read Only	CONP-BigBrain		...
block40-0002-inv.mnc	Minc File	nhdata	2021-01-26	4.4 MB		CONP-BigBrain	Read Only	CONP-BigBrain		...
block40-0006-inv.mnc	Minc File	nhdata	2021-01-26	879.8 kB		CONP-BigBrain	Read Only	CONP-BigBrain		...
block40-0003-inv.mnc	Minc File	nhdata	2021-01-26	45.1 MB		CONP-BigBrain	Read Only	CONP-BigBrain		...
block40-0001-inv.mnc	Minc File	nhdata	2021-01-26	830.3 kB		CONP-BigBrain	Read Only	CONP-BigBrain		...

Synchronization symbols: ✓: InSync •: ProvNewer ∙: CacheNewer ✘: Corrupted ↓: ToCache ↑: ToProvider

Powered by CBRAIN Credits

# Launch BigBrainWarp (Optional Exercise 5)

The screenshot shows the NeuroHub interface for the cbrain project. The top navigation bar includes links for NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, and Support Forum, along with a revision number Rev: 6.2.0-281. On the right, it shows the last update time (0m ago), the user is logged in as Bryan Caron, and there is a Sign out link.

The main area is titled "cbrain - All - Files" and has tabs for "Files" and "Tasks". Below the tabs are buttons for Launch, Upload, Download, Copy, Move, Compress, Uncompress, and Delete. A search bar is also present.

Active Filters (clear) Type: Minc File & Name: like block40-000

9 files currently selected (select all, clear) ( 9 entries , 1.0 GB ) Search by

A table lists the selected files:

Filename	File Type	Owner	Creation Date	Size	Tags	Project	Project Access	Provider
block40-0005-inv.mnc	Minc File	nhdata	2021-01-26	830.3 kB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0007-inv.mnc	Minc File	nhdata	2021-01-26	161.1 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0009-inv.mnc	Minc File	nhdata	2021-01-26	319.8 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0004-inv.mnc	Minc File	nhdata	2021-01-26	26.2 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0008-inv.mnc	Minc File	nhdata	2021-01-26	460.6 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0002-inv.mnc	Minc File	nhdata	2021-01-26	4.4 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0006-inv.mnc	Minc File	nhdata	2021-01-26	879.8 kB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0003-inv.mnc	Minc File	nhdata	2021-01-26	45.1 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0001-inv.mnc	Minc File	nhdata	2021-01-26	830.3 kB		CONP-BigBrain	Read Only	CONP-BigBrain

Synchronization symbols: ✓: InSync •: ProvNewer ..: CacheNewer ✘: Corrupted ↴: ToCache ↑: ToProvider

A context menu is open on the right, listing options such as Custom filters, Tags, Properties, Quality control, Synchronize, Mark as newer, New collection, Export as CSV, Create a file list (which is highlighted in blue), Show only my files, Show hidden files, and Tree view.

# Launch BigBrainWarp (Optional Exercise 5)

Content  
Change view: CBrain File List

This type of file contains a list of other CBrain files that can be used as input or output to tasks within CBrain. The only information that the system cares about are the file IDs in the first column; the other columns are normally repeats of the information already recorded within CBrain for each of these IDs. It is possible that the information will not match, if the file has been manually edited for instance.

The content of this list is stored as a standard CSV file in plain text. In the table below, the names of the files are repeated: the first one is the name as known within CBrain, and the second one is whatever name was in the CSV file (which can be missing or wrong).

(9 files in this list)

ID	Name	Size	Type	Data Provider	User	Project
3346260 : (None)	block40-0005-inv.mnc	830276	MincFile	CONP-BigBrain	nhdta	CONP-BigBrain
3346389 : (None)	block40-0007-inv.mnc	161143745	MincFile	CONP-BigBrain	nhdta	CONP-BigBrain
3346407 : (None)	block40-0009-inv.mnc	319827167	MincFile	CONP-BigBrain	nhdta	CONP-BigBrain
3346431 : (None)	block40-0004-inv.mnc	26235585	MincFile	CONP-BigBrain	nhdta	CONP-BigBrain
3346488 : (None)	block40-0008-inv.mnc	460580534	MincFile	CONP-BigBrain	nhdta	CONP-BigBrain
3346593 : (None)	block40-0002-inv.mnc	4389061	MincFile	CONP-BigBrain	nhdta	CONP-BigBrain
3346596 : (None)	block40-0006-inv.mnc	879806	MincFile	CONP-BigBrain	nhdta	CONP-BigBrain
3346605 : (None)	block40-0003-inv.mnc	45119876	MincFile	CONP-BigBrain	nhdta	CONP-BigBrain
3346785 : (None)	block40-0001-inv.mnc	830276	MincFile	CONP-BigBrain	nhdta	CONP-BigBrain

NeuroHub Dashboard My Account Projects Messages (12) Resources Support Forum Rev: 6.2.0-281 (last updated 1m ago) Logged in as Bryan Caron Sign out

cbrain - Caron - BigBrain Research - Files

Files Tasks

▶ Launch ↑ Upload ± Download Copy Move Compress Uncompress Delete More...  
2 files currently selected (select all, clear) ( 3 entries , 95.3 MB ) Search by name: 25 per page.

Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description
freesurfer_license.txt ✓	Text File	bcaron	2022-10-19	59 bytes		Read Only	MainStore	...
bigbrainwarp-results-2112746-1 ✓	File Collection	bcaron	2022-10-20	95.3 MB (3 files)		Read Only	MainStore	...
file_list.7052.1666300032.csv ✓	CBrain List of files	bcaron	2022-10-20	824 bytes		Read Only	MainStore	...

Synchronization symbols: ✓: InSync •: ProvNewer ..: CacheNewer ✘: Corrupted ↲: ToCache ⤵: ToProvider

Powered by CBrain Credits

# Launch BigBrainWarp (Optional Exercise 5)

The screenshot shows the NeuroHub interface for the 'cbrain - Caron - BigBrain Research - Files' project. On the left, there's a file list with two selected files: 'freesurfer\_license.txt' and 'bigbrainwarp-results-2112746-1'. A modal window titled 'Select Tool' is open, displaying search results for 'bigbra'. The first result is 'BigBrainWarp', which is highlighted with a red box. Below it, there's a button labeled 'Launch BigBrainWarp' also highlighted with a red box. The modal includes sections for 'Tools', 'Type', 'Software Package', and 'Tags'.

# Launch BigBrainWarp (Optional Exercise 5)

**Task Control: (show/hide)**

**Server & Version:** August-2022

**Owner:** bcaron (Bryan Caron)

**Save results to:** MainStore (in)

**Project:** Caron - BigBrain Research

**Description:**

(This first line should be a short summary, and the rest are your notes)

**Preset Management: (show/hide)**

**Task Parameters (Help) :**

**Input space (--in\_space) (--in\_space) \***  
icbm  
Space of input data

**Output space (--out\_space) (--out\_space) \***  
bigbrainsym  
Space of output data

**Descriptor of input (--desc) \***  
Bryan-BigBrainWarp-Test-20221024-cbcs  
descriptor of input data, which will be used to name the output.

**Freesurfer license \***  
freesurfer\_license.txt  
To run FreeSurfer a license file must exist and be pointed to. The license can be acquired by filling out this form: <https://surfer.nmr.mgh.harvard.edu/registration.html>.

**Inputs**  
Requires either in\_vol, or in\_lh and in\_rh

**Input volume (--in\_vol) (--in\_vol)**  
 file\_list.7052.1666300032.cbcs  
Path to input data, whole brain volume. Permitted formats: mnc, nii or nii.gz

**Input left hemisphere (--in\_lh) (--in\_lh)**  
  
Path to input data, left hemisphere surface. Permitted formats: label.gii, annot, shape.gii, curv or txt

**Input right hemisphere (--in\_rh) (--in\_rh)**  
  
Path to input data, right hemisphere surface. Permitted formats: label.gii, annot, shape.gii, curv or txt

**Extra parameters**  
Extra arguments

**Start BigBrainWarp**

# Monitor BigBrainWarp (Optional Exercise 5)

The screenshot shows the 'Tasks' tab of the cbrain interface. A red box highlights a green status bar at the top stating 'Launching 9 BigBrainWarp tasks in background.' Below this, a table lists 11 tasks. A second red box highlights the 'Current Status' column for the third task, which shows '9 x New'. The table includes columns for Task Type, Version, Description, Owner, Execution Server, Current Status, Run Number, Workdir Size, Time Submitted, Last Updated, and a checkbox header.

Task Type	Version	Description	Owner	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...	
+ BigBrainWarp	August-2022	bcaron	Converter-2	9 x New		0 bytes	2022-10-20 17:12:58 EDT	2022-10-20 17:12:58 EDT	...	

# Monitor BigBrainWarp (Optional Exercise 5)

The screenshot shows the cbrain interface for monitoring tasks. The top navigation bar includes NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, Support Forum, and a revision number Rev: 6.2.0-281. The right side shows the last update was 0m ago, the user is logged in as Bryan Caron, and there is a Sign out link. A search bar is also present.

The main title is "cbrain - Caron - BigBrain Research - Tasks". Below it, there are two tabs: "Files" and "Tasks", with "Tasks" being the active tab. There are several filter buttons: Update Attributes, For Failed Tasks, For Completed Tasks, Terminating And Cleaning Up, Archiving, and Filters. Active filters are set to Type: BigBrainWarp.

The table displays 11 tasks. The columns include Task Type, Version, Description, Owner, Execution Server, Current Status, Run Number, Workdir Size, Time Submitted, Last Updated, and a plus sign for more options. The last task in the list is highlighted with a red box around its "Current Status" cell, which shows "9 x On CPU".

At the bottom of the table, there is a note about workdir archiving status symbols: orange diamond for On Cluster and green triangle for As File. The page footer includes links to Powered by CBRAIN and Credits.

	Task Type	Version	Description	Owner	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
	BigBrainWarp	August-2022		bcaron	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...
	BigBrainWarp	August-2022		bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...
	+ BigBrainWarp	August-2022		bcaron	Converter-2	9 x On CPU		356.4 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:26 EDT	...

# Monitor BigBrainWarp (Optional Exercise 5)

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

## cbrain - Caron - BigBrain Research - Tasks

Files Tasks

Update Attributes For Failed Tasks For Completed Tasks Terminating And Cleaning Up Archiving Filters

Active Filters (clear) Type: BigBrainWarp

Switch to List View (11 tasks) Total task space used: 717.0 MB

25 per page.

Task Type	Version	Description	Owner	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...	
- BigBrainWarp	August-2022	bcaron	Converter-2	9 x On CPU		356.4 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:26 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	36.9 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:16 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:16 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	36.9 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:16 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:26 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	36.9 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:15 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:15 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:16 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:15 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:15 EDT	...	

Workdir archiving status symbols: ◊: On Cluster ▽: As File

Powered by CBRain Credits

# Monitor BigBrainWarp (Optional Exercise 5)

The screenshot shows the 'cbrain - Caron - BigBrain Research - Tasks' page. At the top, there is a green banner with the message 'Task BigBrainWarp Completed Successfully'. Below the banner, the system status is listed as 'System' and '2022-10-20 17:17:11 EDT'. There are 'Mark as Read' and 'Delete' buttons. The main area displays a table of tasks. The table has columns: Task Type, Version, Description, Owner, Execution Server, Current Status, Run Number, Workdir Size, Time Submitted, Last Updated, and a header row with sorting icons. Three rows of data are shown:

Task Type	Version	Description	Owner	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...	
+ BigBrainWarp	August-2022	bcaron	Converter-2	9 x Completed		1.3 GB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:11 EDT	...	

Below the table, it says 'Workdir archiving status symbols: ◊: On Cluster □: As File'. The bottom of the page includes links for 'Powered by CBRN' and 'Credits'.

# Monitor BigBrainWarp (Optional Exercise 5)

The screenshot shows a web-based task management interface for the 'BigBrain Research' project. The top navigation bar includes links for NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, and Support Forum, along with system information Rev: 6.2.0-281 and user status (last updated 0m ago, Logged in as Bryan Caron). A search bar is also present.

The main title is 'cbrain - Caron - BigBrain Research - Tasks'. Below it, a red box highlights the 'Tasks' tab, which is currently selected. The page displays a message 'Task BigBrainWarp Completed Successfully' and a summary row indicating 2022-10-20 17:17:11 EDT, System, and options to 'Mark as Read' or 'Delete'.

Below the summary, there are several filter and search options: 'Update Attributes', 'For Failed Tasks', 'For Completed Tasks', 'Terminating And Cleaning Up', 'Archiving', and 'Filters'. It also shows active filters 'Type: BigBrainWarp' and a link to 'Switch to List View'.

The main content area lists 11 completed tasks. A red box highlights the first task in the list, which is a 'BigBrainWarp' task from August 2022, owned by bcaron and run on 'Converter-2'. The status is 'Completed' with a count of '9 x Completed'. The table columns include Task Type, Version, Description, Owner, Execution Server, Current Status, Run Number, Workdir Size, Time Submitted, Last Updated, and a detailed view icon.

Task Type	Version	Description	Owner	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...	
-	BigBrainWarp	August-2022	bcaron	Converter-2	9 x Completed	1.3 GB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:11 EDT	...	
↳	BigBrainWarp	August-2022	bcaron	Converter-2	Completed	26.9 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:02 EDT	...	
↳	BigBrainWarp	August-2022	bcaron	Converter-2	Completed	187.2 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:09 EDT	...	
↳	BigBrainWarp	August-2022	bcaron	Converter-2	Completed	345.9 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:11 EDT	...	
↳	BigBrainWarp	August-2022	bcaron	Converter-2	Completed	52.3 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:09 EDT	...	
↳	BigBrainWarp	August-2022	bcaron	Converter-2	Completed	486.7 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:07 EDT	...	
↳	BigBrainWarp	August-2022	bcaron	Converter-2	Completed	30.5 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:11 EDT	...	
↳	BigBrainWarp	August-2022	bcaron	Converter-2	Completed	27.0 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:04 EDT	...	
↳	BigBrainWarp	August-2022	bcaron	Converter-2	Completed	71.2 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:03 EDT	...	
↳	BigBrainWarp	August-2022	bcaron	Converter-2	Completed	26.9 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:03 EDT	...	

At the bottom, a note states 'Workdir archiving status symbols: ◊: On Cluster ▽: As File'.

# Download the Results (Optional Exercise 6)

Browser view for navigating the project contents and individual file download

The screenshot shows a browser-based interface for managing project files. At the top, there's a navigation bar with links for NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, Support Forum, and a revision number Rev: 6.2.0-285. To the right of the navigation is a status message (last updated 0m ago), a sign-in message Logged in as Bryan Caron, and a Sign out link. A search bar is located at the top right.

The main title is "cbrain - Caron - BigBrain Research - Files". Below the title, there are two tabs: "Files" (selected) and "Tasks". Under the "Files" tab, there are several action buttons: Launch, Upload, Download, Copy, Move, Compress, Uncompress, and Delete. There's also a "More..." button.

A message indicates "5 files currently selected (select all, clear)". Below this, it says "( 12 entries , 1.3 GB )". There's a "Search by name:" input field and a "25 per page." dropdown.

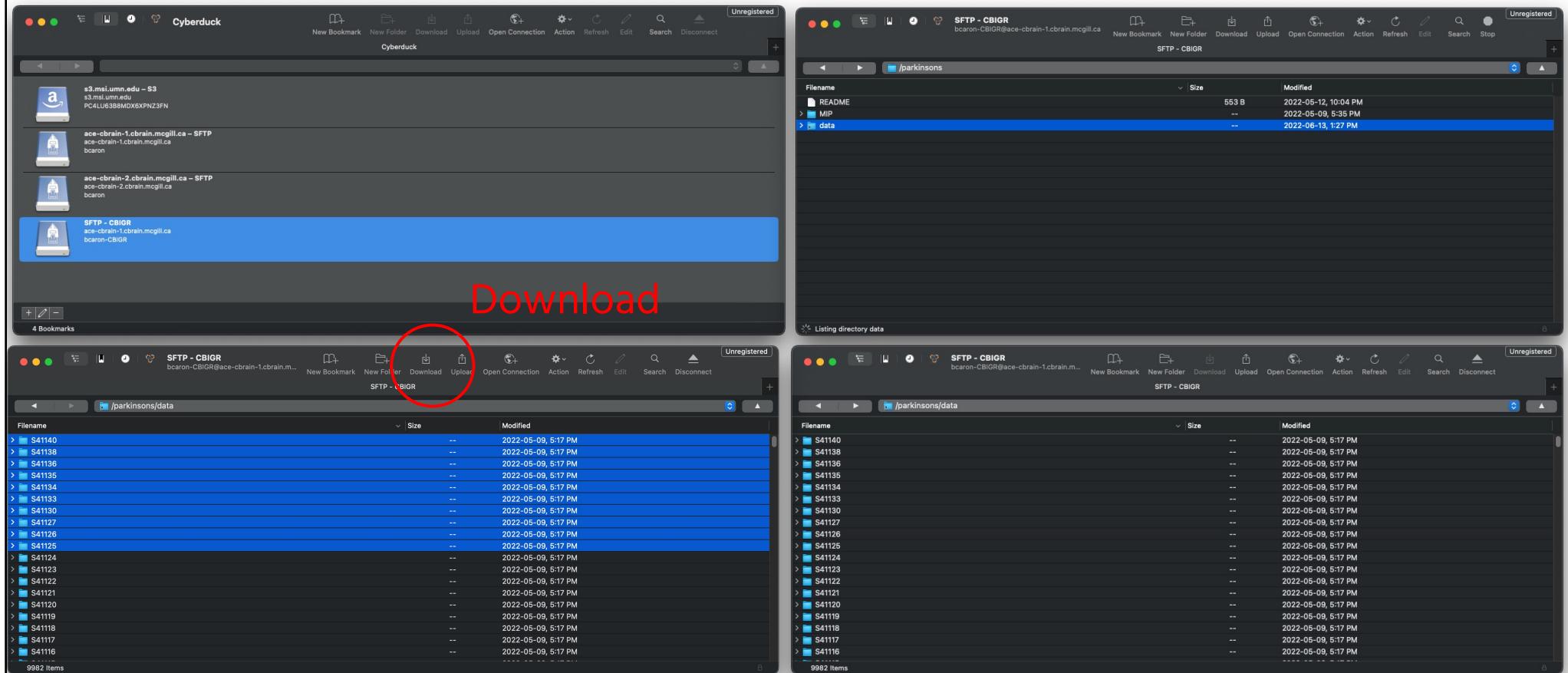
The main content area is a table with the following columns: Filename, File Type, Owner, Creation Date, Size, Tags, Project Access, Provider, and Description. The table lists 12 entries, each with a checkbox and a small icon indicating synchronization status (green checkmark for InSync). The rows include:

Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description
freesurfer_license.txt	Text File	bcaron	2022-10-19	59 bytes		Read Only	MainStore	...
bigbrainwarp-results-2112746-1	File Collection	bcaron	2022-10-20	95.3 MB (3 files)		Read Only	MainStore	...
file_list.7052.1666300032.csv	CBRAIN List of files	bcaron	2022-10-20	824 bytes		Read Only	MainStore	...
bigbrainwarp-results-2112752-1	File Collection	bcaron	2022-10-20	26.9 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112776-1	File Collection	bcaron	2022-10-20	26.9 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112773-1	File Collection	bcaron	2022-10-20	71.2 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112770-1	File Collection	bcaron	2022-10-20	26.9 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112764-1	File Collection	bcaron	2022-10-20	486.6 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112761-1	File Collection	bcaron	2022-10-20	52.3 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112755-1	File Collection	bcaron	2022-10-20	187.2 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112758-1	File Collection	bcaron	2022-10-20	345.9 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112767-1	File Collection	bcaron	2022-10-20	30.4 MB (3 files)		Read Only	MainStore	...

At the bottom of the table, there's a note about synchronization symbols: ✓: InSync, \*: ProvNewer, ..: CacheNewer, ✘: Corrupted, ↗: ToCache, ↖: ToProvider. The footer also includes links for Powered by CBRAIN and Credits.

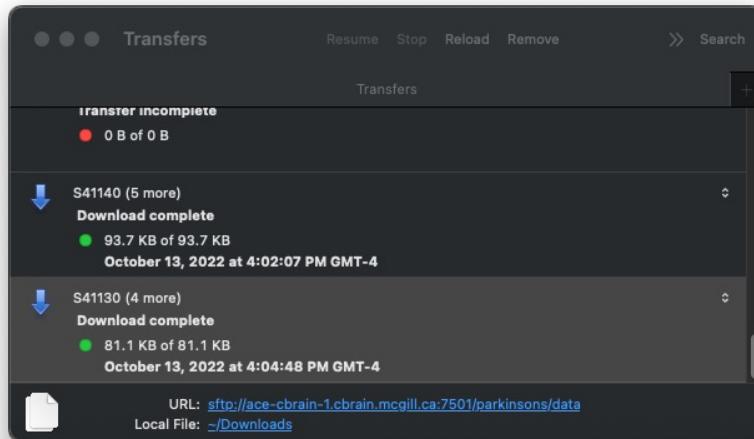
# Download the Results (Optional Exercise 6)

SFTP interface available to NeuroHub project data location for secure file browsing and file transfer (cmd-line, GUI clients)

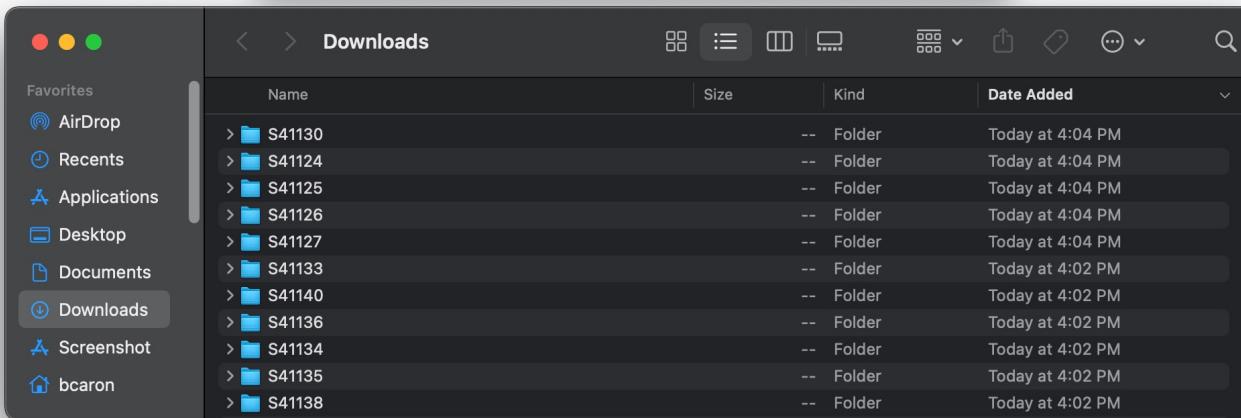


# Download the Results (Optional Exercise 6)

SFTP interface available to NeuroHub project data location for secure file browsing and file transfer (cmd-line, GUI clients)



Download destination server directory



# Download the Results (Optional Exercise 6)

Using your favourite SFTP client (command-line or GUI-based) configure a connection to the CBRAIN SFTP server using the following protocol parameters.

To connect to Data Provider SFTP-1	
SFTP Hostname	ace-cbrain-1.cbrain.mcgill.ca
SFTP Port number	7500
SFTP Username	(your CBRAIN username)
SFTP Password	(your CBRAIN password)
Connexion URI (for Linux desktops)	sftp://username@ace-cbrain-1.cbrain.mcgill.ca:7500/
To connect to Data Provider SFTP-2	
SFTP Hostname	ace-cbrain-2.cbrain.mcgill.ca
SFTP Port number	7500
SFTP Username	(your CBRAIN username)
SFTP Password	(your CBRAIN password)
Connexion URI (for Linux desktops)	sftp://username@ace-cbrain-2.cbrain.mcgill.ca:7500/

See: <https://portal.cbrain.mcgill.ca/doc/manual/uploading.html>

# Wrap-up

If you have any feedback or questions as follow-up to the material or  
as to how the methods demonstrated can be applied to your  
research: [support@neurohub.ca](mailto:support@neurohub.ca)

**Thank you for your attention!**

# Datalad and Boutiques Exercises

- Google Colab Notebook (Google Account required)
    - Open the Colab Tutorial Notebook  
<https://bit.ly/2023-bigbrain-cbrain-datalad>
- **Exercise 1:** Finding BigBrain Datasets in DataLad
- **Exercise 2:** Installing and downloading BigBrain Datasets
- **Exercise 3:** Processing BigBrain Datasets with Boutiques
- **Exercise 4 (Optional):** Uploading Derived Data to DataLad