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Queensland Brain Institute

Storage of Experimental Data at QBI



Storage of Experimental Data at QBI

[home.qbi.uq.edu.au\group_microscopy](https://home.qbi.uq.edu.au/group_microscopy) will cease operation in 2020

ALL LAB GROUPS will need to use the UQ Research Data Manager (RDM) for storage of experimental data.

The RDM will allow users to request storage, which can be mounted on the new QBI HIGH PERFORMANCE network:

data.qbi.uq.edu.au

*Please note this is for storage of experimental and analysis data only.
For admin data and productivity, please use OneDrive.

For any further help setting up a OneDrive Team please contact QBI IT Staff.

*A note on **home.qbi.uq.edu.au** group shares:

We ask users to immediately begin using the RDM for their microscopy data storage so that space can be freed on the QBI group share network (e.g. [group_microscopy](https://home.qbi.uq.edu.au/group_microscopy)). This is to allow labs to begin the SLOW process of copying data from long-term tape storage over to new **project-based** storage locations on the **data.qbi.uq.edu.au** network. This process will be slow, and will need to be arranged by Lab Group so as to not disable the network completely. More on this later.



Storage of Experimental Data at QBI

The concept of the “group share” is retired and is not coming back.

The concept of “project” based shares is the new normal. This is UQ’s approach and rules. You do your work and capture your data on a per project basis

For each ‘Project’, e.g. data relating to a particular Grant, the lab manager or member responsible for data storage will need to follow the following simple steps:

- 1) Navigate to <https://rdm.uq.edu.au/> and sign in using UQ Staff credentials

The screenshot shows a web browser window with the address bar containing <https://rdm.uq.edu.au/>. The page header features the University of Queensland logo and the text 'UQ RDM'. The main content area is titled 'UQ Staff and Students' and contains a blue 'Sign in' button. Below this, it says 'Or sign in with' and lists four options: Australian Access Federation, eduGAIN, Tuakiri Federation (NZ), and LinkedIn. The footer contains copyright information for The University of Queensland, contact details (+61 7 3365 1111), and an emergency phone number (3365 3333).



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2) ‘Create new record’ and fill in the relevant details

The screenshot shows a navigation menu for the Research Data Manager. At the top is the University of Queensland Australia logo. The menu items are: Dashboard (with email a.thompson4@uq.edu.au), My records, Create new record (highlighted in a grey bar), My collaborators, About, Library guide, Help me (with email help@its.uq.edu.au), and Logout. At the bottom is the Research Data Manager logo, which consists of a 3x3 grid of dots with the letters R, D, and M in the first, second, and third columns respectively.



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- 3) Tick “This project data needs to be mounted on UQ HPC facilities”
(this option will not be available if you are storing identifiable human data)

Data storage

In order to store your projects data correctly, we need to know some details of the data and what you'd like to do with it (note: the two options cannot be modified once the project is active).

The project will store identifiable human data ?

The project data needs to be mounted on UQ [HPC](#) facilities. ?

Note there is currently a strict file/inode limit on this storage. Exceeding this limit will lock you out of your files. For more information, please read the [HPC section](#) of the Library Guide.

SAVE

REQUEST DATA STORAGE



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- 4) Add collaborators (e.g. lab members contributing data to this project) using the blue ‘+’ button

Research Data Manager

UQ BiImaging Research Facilities Repository [IMAGEREPOS]
Persistent ID: [102.100.100/71771](https://doi.org/10.1001/102.100.100/71771)

Storage Instructions

ACTIVE COLLABORATORS (2) PENDING COLLABORATORS (0)

Name	Email	Role	
Dr Andrew Thompson http://orcid.org/0000-0002-7634-127X	a.thompson4@uq.edu.au	Owner + Lead	

Where possible, it is recommended that when creating a new RDM storage allocation or adding collaborators to an existing allocation, researchers use their UQ Staff credentials for access. This is so that the data can be accessed on the High Performance Computing (HPC) resources linked to data.qbi.uq.edu.au, such as Wiener and Visnode1, which require a staff account to access.




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- 5) By default your storage will be allocated to the R: drive \\uq.edu.au\UQ-Research\ location and you will receive an email with instructions on how to access this:

The screenshot shows an email from 'UQ Research Data Manager <help@its.uq.edu.au>' dated 'Fri 18/10/2019 11:26 AM' from 'Andrew Thompson'. The email content is as follows:

Research Data Manager 

Dear Dr Andrew Thompson,

Congratulations! You have now been granted access to data storage for the project "QBI Microscopy Admin Data".

To access the storage, please follow the relevant instructions below. For more detailed instructions, including how to map a drive, please refer to the following guide: <https://guides.library.uq.edu.au/for-researchers/uq-research-data-manager/accessing-the-storage>

You can access the storage in the allocation QBIMICADM9 via any of the below methods.

UQ users while on campus

The UQ-Research Share is the primary access method to data on the UQRDM system.

Windows

You will see a drive mapped as R: in File Explorer. If not, please enter this location into Explorer

\\uq.edu.au\UQ-Research\QBIMICADM9-Q1316

But this is not yet on data.qbi.uq.edu.au...



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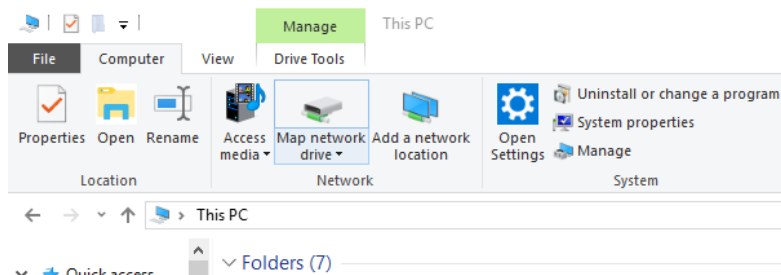
The concept of the “group share” is retired and is not coming back.

The concept of “project” based shares is the new normal. This is UQ’s approach and rules. You do your work and capture your data on a per project basis

- 5) Email QBI IT Helpdesk (helpdesk@qbi.uq.edu.au) with your RDM collection ID (e.g. QBIMICADM9-Q1316) and request it be added to data.qbi.uq.edu.au

When you receive confirmation you can mount this on any PC as normal.

E.g.: Map network drive:



Choose a drive and choose your RDM storage ID as the folder within the data.qbi.uq.edu.au network:

What network folder would you like to map?

Specify the drive letter for the connection and the folder that you want to connect to:

Drive:

Folder:

Example: \\server\share

Reconnect at sign-in

Connect using different credentials

[Connect to a website that you can use to store your documents and pictures.](#)



Storage of Experimental Data at QBI

Please note:

*For the immediate future, this places the responsibility on the **USER** to **mount and unmount their own storage** collections on microscope computers **each** imaging session
(changes to this will be coming in the longer term).

Only collaborators will have access to the contents of your RDM allocation, unless you leave your storage folder mounted on a Microscope Computer, in which case your data are available to anyone so please disconnect your network drives.

(This goes for email and social media accounts that you leave logged in too!)

You will need to allow time to finish copying your data to your RDM folder before you finish your imaging session.

To aid in this, all the high-performance microscope PCs are being upgraded to 10G network cards to take advantage of the newly installed 100Gb/s network access across QBI floors 4, 5 and 6 and Ritchie Building.



Storage of Experimental Data at QBI

A final note from QBI IT:

In general, good practice suggests:

When you're done with data you bundle it up. You zip it up. You compress it. Leaving millions of files scattered across a file system is bad for your **access efficiency** and bad for the file system.

When you've finished and you're in a state where you can "archive", everything is so much better for all concerned if you bundle things up.

*If you know your project needs thousands or millions of files for a specific reason, [please reach out to us and tell us](#). There are important things we can do to help you, the technology and the platform best cater to it. If you don't reach out, you might hit brick walls.



Storage of Experimental Data at QBI

A final note from QBI IT:

This spells the end of home.qbi.uq.edu.au

All new data should be going into your new project based storage at data.qbi.uq.edu.au.

We're not going to shut down home.qbi.uq.edu.au overnight on you. We know years of legacy exist that is going to take each lab weeks, if not months to extricate out of. **Do not panic.** We've built tools to help you get old data from home.qbi.uq.edu.au to data.qbi.uq.edu.au and we will be managing this approach on a lab by lab basis. We know you probably perceive this as a disruption to your life and lab – but we can't stay still, or you'll all end up in trouble.

This isn't just about copying all the stuff that was in your old lab "group share" into the new data.qbi.uq.edu.au. Keep the things you need to keep for scientific reproducibility, history, preservation and academic integrity, but that's different from "copying my whole lab share to the new place". You need to consider what is important, what is junk, what is irrelevant and how you're going to structure this and you need to carefully consider your **project-based** approach.



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- 2) 'Create new record' and fill in the relevant details
- 3) Tick "This project data needs to be mounted on UQ HPC facilities" (this option will not be available if you are storing identifiable human data)
- 4) Add collaborators (e.g. lab members contributing data to this project) using the blue '+' button
- 5) Email QBI IT Helpdesk (helpdesk@qbi.uq.edu.au) with your RDM collection ID (e.g. Q0001) and request it be added to **data.qbi.uq.edu.au**

You will then receive instructions on how to mount this on your local computer or microscope computers.

*For the immediate future, this places the responsibility on the **USER** to **mount and unmount their own storage** collections on microscope computers **each** imaging session

*Please note this storage is for experimental data only.
For admin data and productivity, please use OneDrive.

For any further help please contact QBI IT or
QBI Microscopy Facility staff.