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Xenium Explorer Access and Loading Data

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Protocol status: Working

We use this protocol and it's working

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Abstract

Information for accessing Xenium Explorer, particularly for URMIC users on Momentum.



Xenium Explorer Background

- 1 Xenium Explorer is a tool provided by 10X Genomics for analysis of Xenium datasets. It is provided as a free download at <https://www.10xgenomics.com/support/software/xenium-ranger/downloads>. For non-URMC users, downloading the software will be the only way to use Xenium Explorer. For URMC users, access to this software is provided through the Office of Research IT (ORIT).

Accessing Momentum

- 2 Momentum is a platform used to access university hosted softwares made available by ORIT. Upon reasonable request, ORIT is able to host free software for deployment via remote resources.
- 3 Log into Momentum via <https://momentum.urmc-sh.rochester.edu/momentum>, using your AD login.

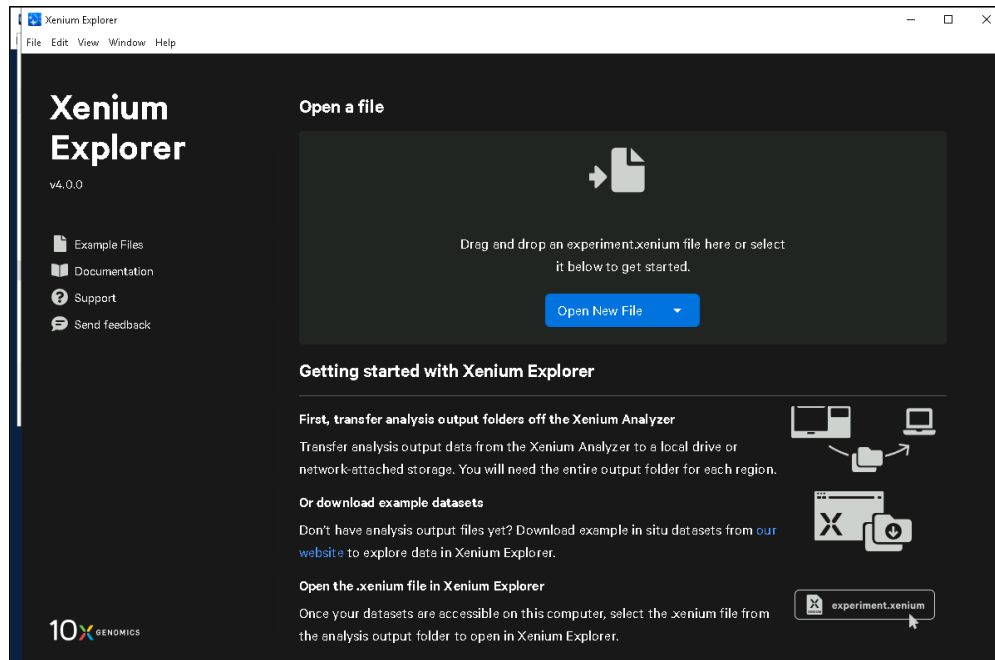
Opening Xenium Explorer

- 4 After logging into Momentum, click on the tile for Xenium Explorer, which should be at the bottom of the page. You can also use the search bar to locate it. Click the "Connect from Browser" option. The "Connect from your computer can be used as a backup option, but we have found it to be less stable than browser access.
- 5 If connecting via browser, you will be taken to an Apache Guacamole portal. Log in using your AD credentials. You will then need to perform a duo authentication and then you should have access to the browser.

If connecting via computer, a remote desktop file will be downloaded. When launching this file, you will be prompted for duo authentication and a desktop session will be configured. This may take some time.

Loading in the Data (URMC Users on Momentum)

- 6 Once the Xenium Explorer window opens, click the 'Open New File' button.



- 7 Enter the path to the data you wish to load in Xenium Explorer. The file type that Xenium Explorer needs is an **experiment.xenium** file. You can find this experiment file in the delivery directory associated with your project. Note that each ROI has its own experiment file. You can search for this file using the file explorer address bar.

When accessing Xenium Explorer from Momentum, you can navigate to your smdnas02 share by typing '\\smdnas02\GRC_' in the address bar, and then select the appropriate share and project folder. Once you have accessed your shared drive, click the experiment file and open.

- 8 Additional details on understanding Xenium Outputs can be found on 10X's website here: <https://www.10xgenomics.com/support/software/xenium-onboard-analysis/latest/analysis/xoa-output-understanding-outputs>