



Importing .vsi files (from VS200 slide scanner) into different analysis programs

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Batch exporting .vsi files to .tif files in the VS200 software

Using a VS200 software that has the CONV package

1. In the VS200 software on the Imaris Analysis Workstation (which has the CONV package), click *File → Convert Virtual Slide Images...*
 - a. In the pop-up, select your .vsi files.
 - b. Select the folder that you want your new .tif files saved to.
 - c. Select the file type that you want your images saved as (.tif).
 - d. Select which layers you want in these final .tif files.
 - i. All layers will export the label, the overview, and any detail areas (e.g. 20x BF) to separate .tif files.
 - ii. The other options will only export either the overview or the detail areas to .tif files.
 - e. Select which resolution you would like to export these images at. We recommend keeping the full resolution.
 - f. Select whether you would like to separate your image z-planes or channels, separate some of these, or separate none into separate .tif files.
2. Click *Convert* to begin converting your files.

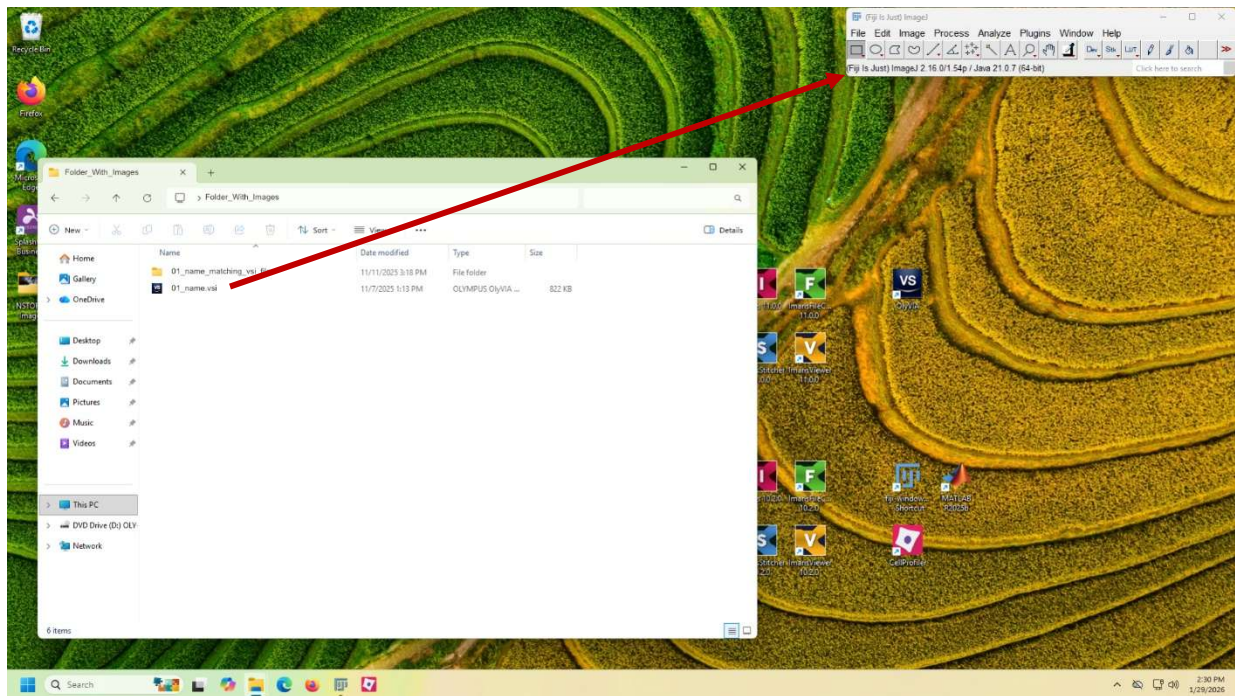
Using a VS200 software that does not have the CONV package

1. In the VS200 software on the VS200 computer (which does not have the CONV package), click *File → Export Image*.
 - a. In the pop-up, select the layers (e.g., Overview, detail areas) of your image that you want to convert. The checkboxes next to them should be checked.
 - b. In the *Select channels:* section, select which channels you would like to include in your final converted files.
 - c. Next to *Output:*, make sure the drop-down selection is *Raw Data*.
 - d. Next to *File type:*, select either .tif or .btf.
 - i. TIFF (.tif) files can only create images under 4 GB, because they are 32-bit.
 - ii. BigTIFF (.btf) files can create images much much larger, because they are 64-bit.
 - e. Immediately to the right of *File type:*, click *Options...*
 - i. In the *Compression* drop-down, select *None* to make sure that you get the highest quality image. Click *OK*.
 - f. Next to *Export to folder*, use the *Select...* button to select the folder where you would like to export your converted files.
2. Click *OK* to convert your file.

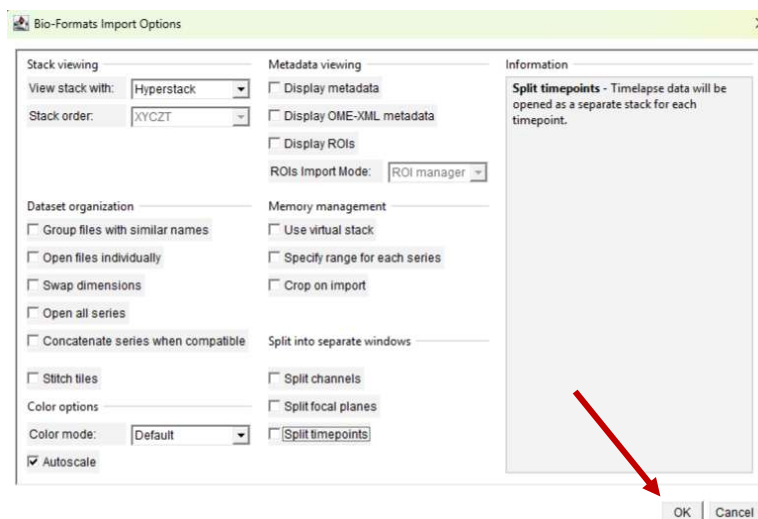
1. To do a batch export (export many images at once), click *File* → *Batch Convert...*
2. In the pop-up, click *Input Definition:*.
 - a. In the new pop-up, choose your scenario from the drop-down menu under *Input:*.
 - b. Click *Browse...* to select the files or folder that you would like to convert.
 - c. Check the *Include subfolders* box if you would like to include the subfolders of the folder you have selected with *Browse...*
 - d. Review your choices. Click *Next*.
3. In this window, click *Browse...* to select the folder where you like to export your converted files.
 - a. Under *File types*, select either .tif or .btf.
 - i. TIFF (.tif) files can only create images under 4 GB, because they are 32-bit.
 - ii. BigTIFF (.btf) files can create images much much larger, because they are 64-bit.
 - b. Immediately to the right of the *File types*, click *Options...*
 - i. In the *Compression* drop-down, select *None* to make sure that you get the highest quality image. Click *OK*.
4. Click *Start* to begin converting your files.

Exporting .vsi files to .tif files in FIJI/ImageJ

1. Open FIJI/ImageJ. Drag and drop your .vsi image file into the FIJI/ImageJ bar.
 - a. Note: This will only work if your version of ImageJ has the Bio-Formats Importer plug-in. This plug-in comes with the FIJI version of the software.

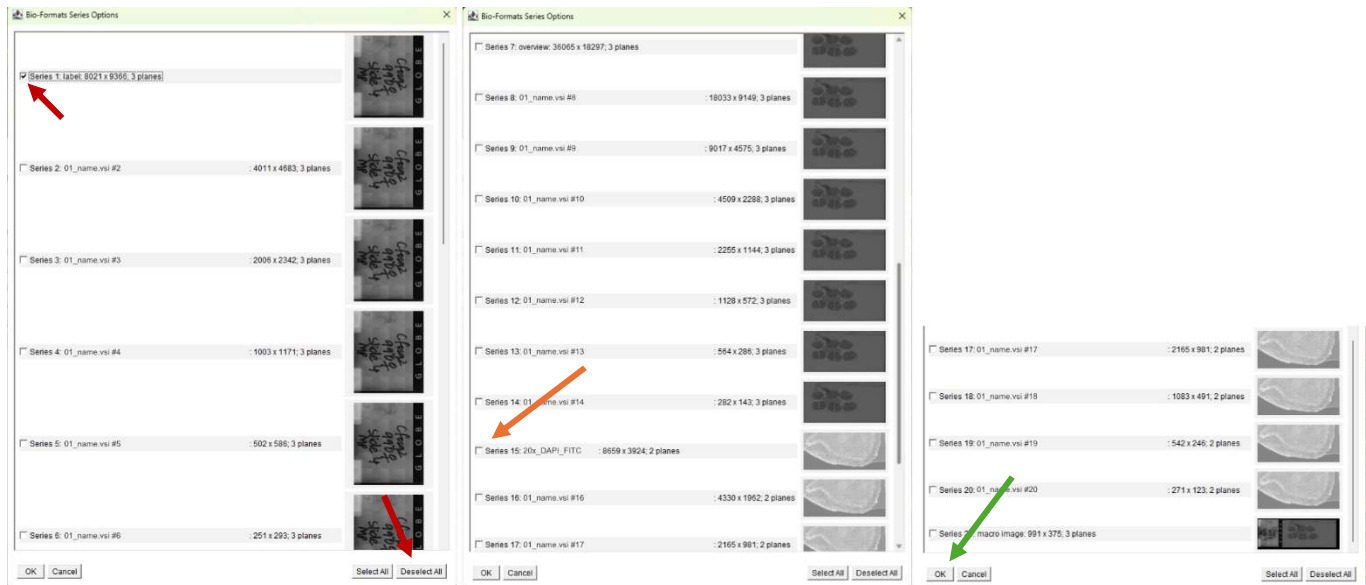


2. This should cause a *Bio-Formats Importer Options* window to open. Click OK.

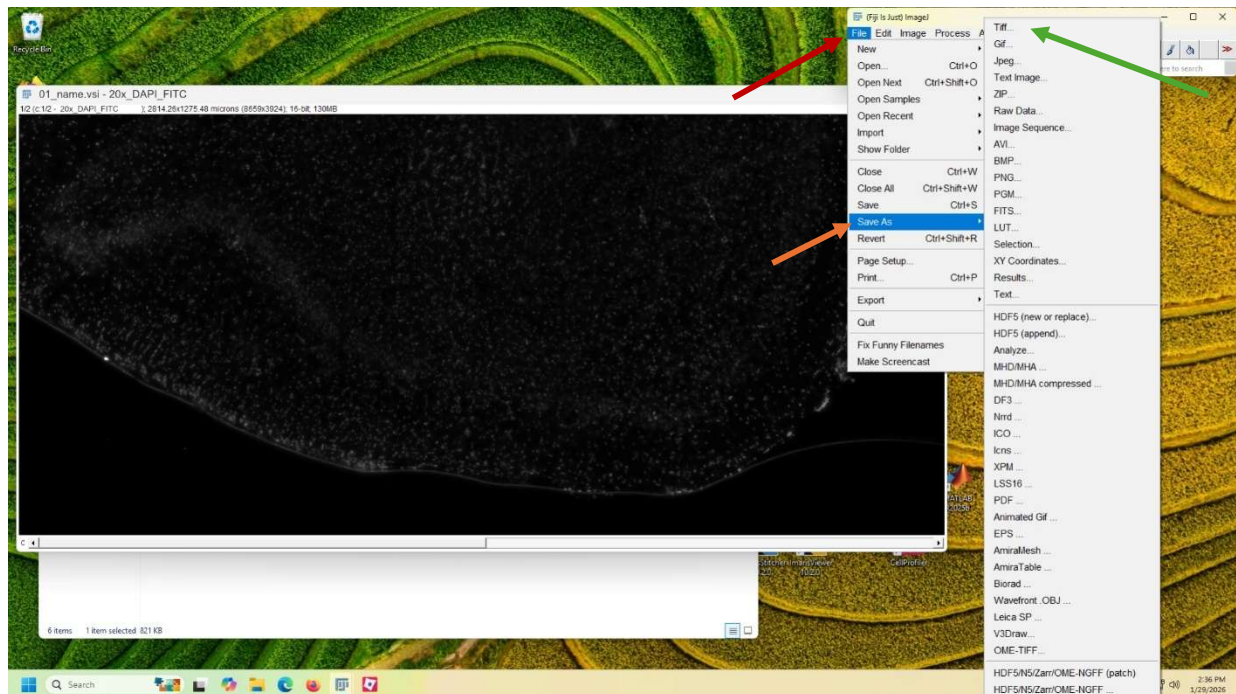


3. A new *Bio-Formats Series Options* window will ask you to choose which images from the .vsi “stack” you would like to open.

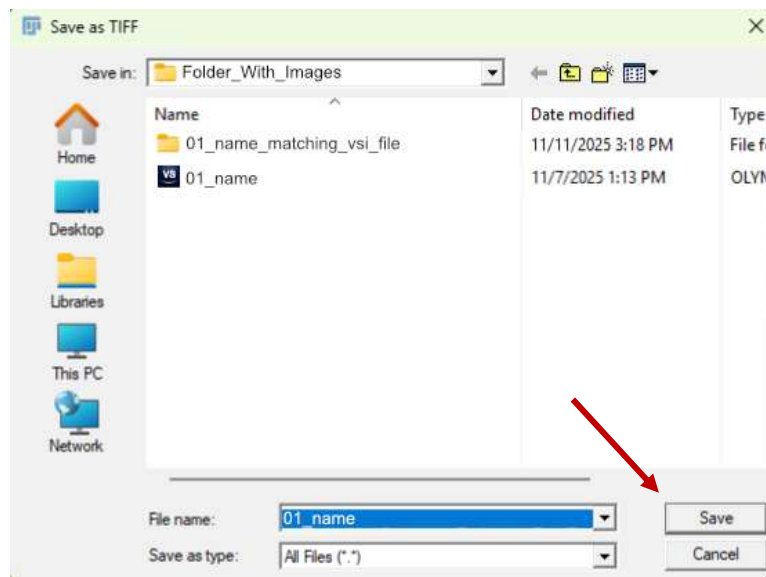
- This will include the label images, the overview image, the focus map, and also your fluorescent/brightfield images. Next to each image name, you will see resolution information in parentheses.
- Uncheck the first box (always selected by default) or click *Deselect All* and check the box next to the highest resolution fluorescent/brightfield image.
- Click OK.



- It may take the image a long time to open, so be patient. Once it opens, click *File → Save As → Tiff...* to save this image as a multistack TIFF.

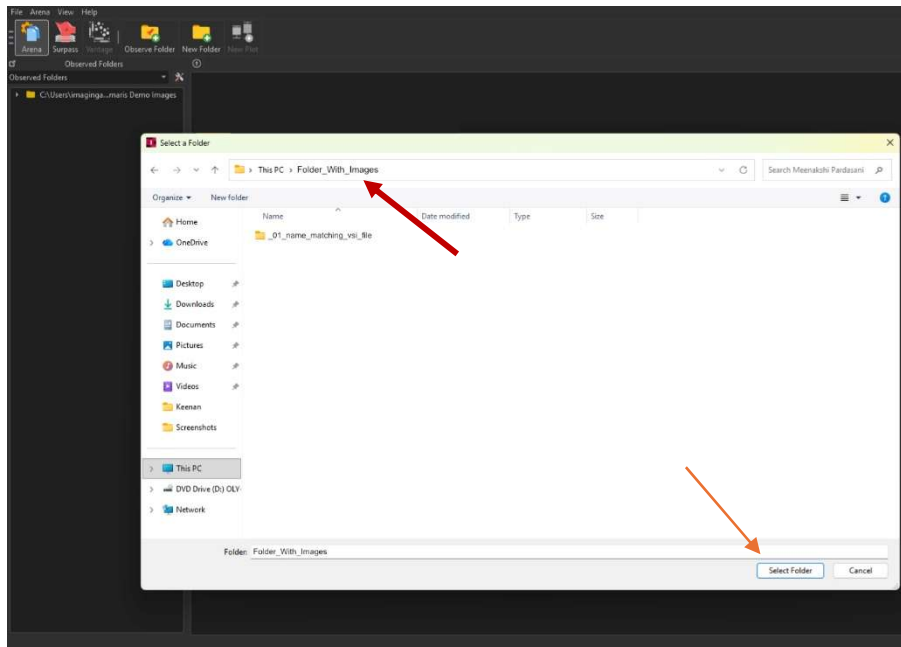
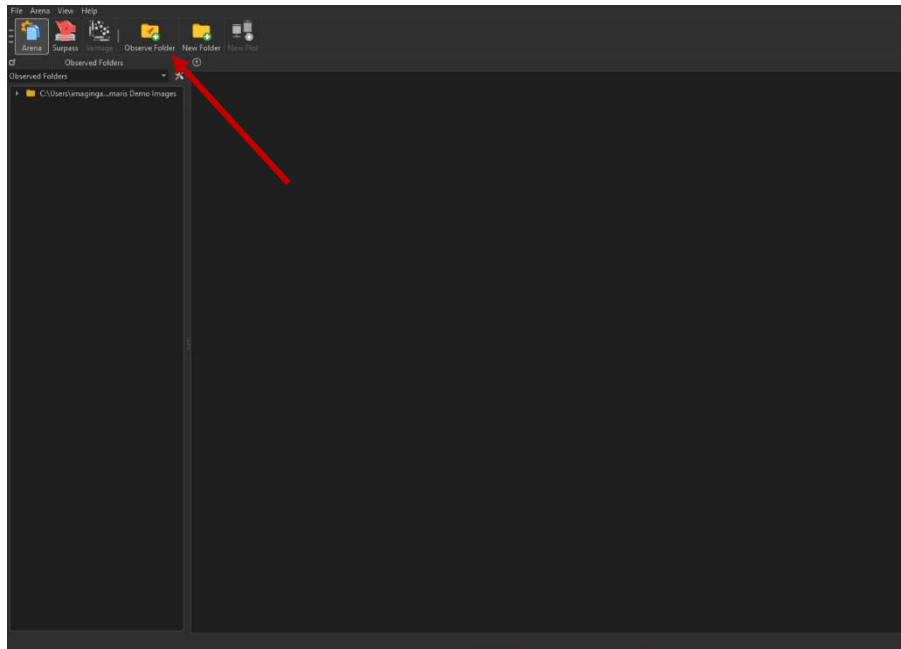


5. In the *Save as TIFF* pop-up window, name your new TIFF file and click *Save*.



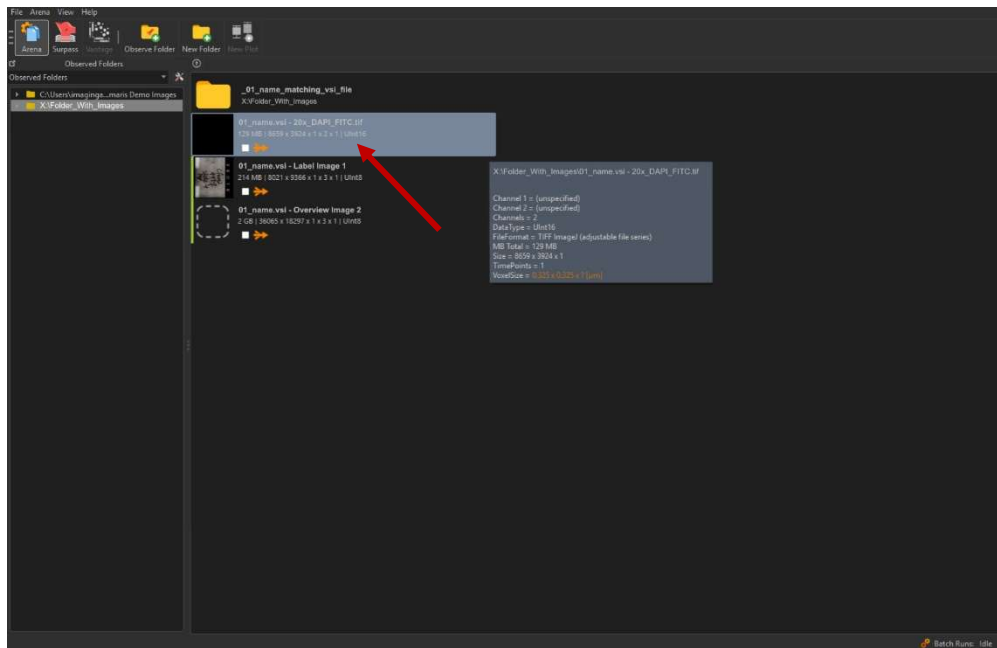
Importing .vsi files into Imaris

1. In Imaris, click the *Observe Folder* button and select your folder.
 - a. Make sure that this folder contains the .vsi file and the associated same-name folder with more images.



2. After selecting the folder with your images in it, the image files should show up in the Imaris app with small thumbnails showing the images. Find the image file whose thumbnail and/or name

matches your desired image (*i.e.*, 01_name.vsi – 20x_DAPI_FITC). Double-click this file to copy the file and convert it to the Imaris (*.ims*) format.



3. Once the file has copied and converted, you can double-click it again to open the image for viewing or analysis.

Importing .tif files into Aivia

1. Aivia does not allow .vsi files to be opened in the software, so you'll need to convert them to .tif or .btf files first.
2. In Aivia, click *Open File* and select your new TIFF file.

