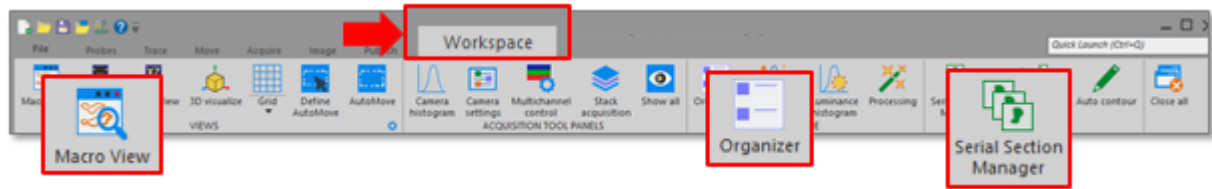


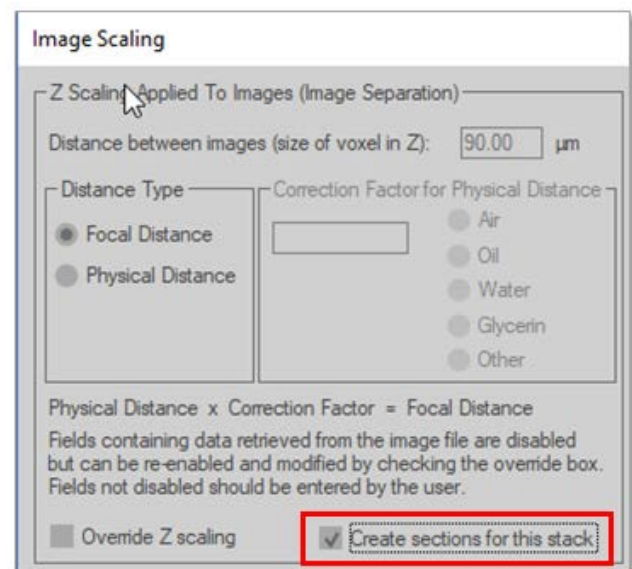
1. Open the **Macro View**, **Image Organizer**, and **Serial Section Manager** tools: Display the “Workspace” ribbon and click the corresponding buttons.



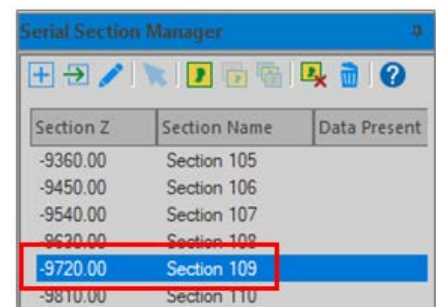
2. Open your image stack: Click the **Open Image File** button (top left toolbar) and select a .jpx file.



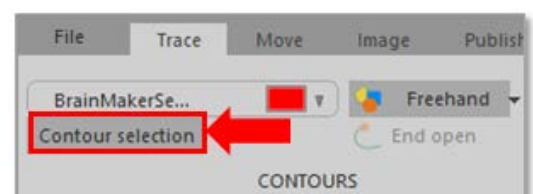
3. In the **Image scaling** window, check **Create sections for this stack** to create one section per image plane.



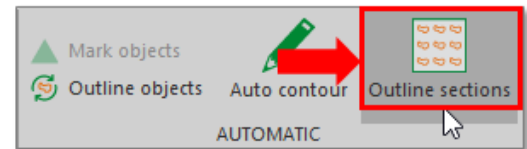
4. The sections you just created are displayed in the **Serial Section Manager**. To navigate to a section, click its name. The section displayed is highlighted in blue. To navigate to the previous (next) section, use PageUp (PageDown) on your keyboard.



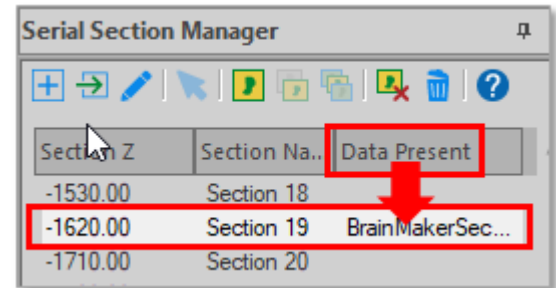
5. Display the list of anatomical structures that you'll be using for annotating: In the **Trace** ribbon bar, click **Contour Selection**.



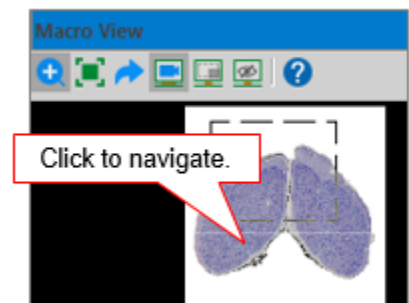
6. Outline a section: Select a section in the **Serial Section Manager** then click **Outline sections** in the **Trace** ribbon bar.



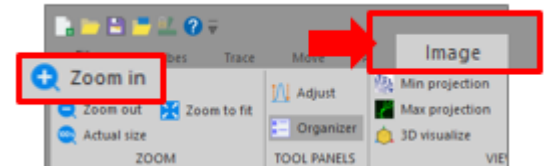
NOTE: The note in the **Data present** column indicates that the section has been outlined. **Data present** will also show annotations.



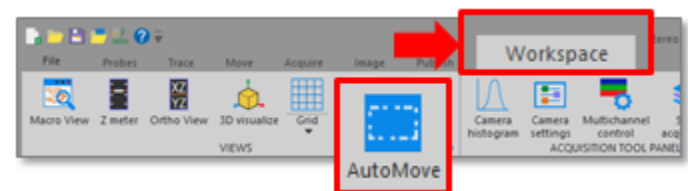
7. Prepare to annotate the section.
 - a. Navigate quickly to an area of interest: In the **Macro View** window, click an area of interest in the image thumbnail.



- b. Zoom in as needed: Display the **Image** ribbon bar, click the **Zoom in** button, then draw a marquee in the image.

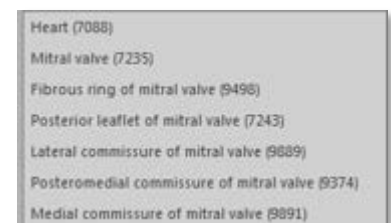


- c. Set up the **AutoMove** tool: Display the **Workspace** ribbon bar and click the corresponding button. A dashed rectangle appears over the image; it represents a field of view. This tool will prove useful once you start tracing a structure.



8. Annotate the section.
 - a. Select an anatomical structure from the **Contour selection** list.

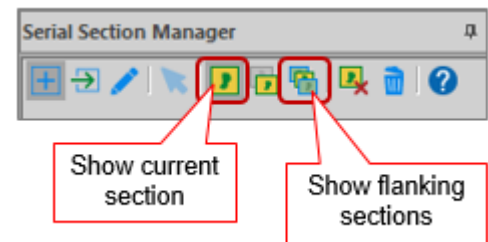
To select the next structure in the list, press **Alt-N**.
To select the previous structure in the list, press **Alt-B**.



- b. Start tracing the structure by clicking along the structure. When you click beyond the bounds of the field of view, the image automatically re-centers to the last point you clicked (this is because you set up **AutoMove** in step 7).
- c. When you're done with the annotation, right-click and select **Close contour** or **End open contour**.

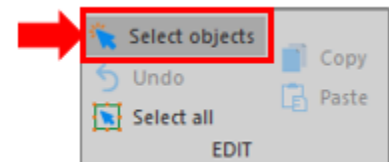
9. Annotate another section.

- a. Move to the next section.
- b. Repeat steps 7-8.
- c. To see what was traced in the section above or below, make sure that **Show current section** is selected and click the **Display flanking sections** button in the **Serial Section Manager**. Previous annotations appear in gray.

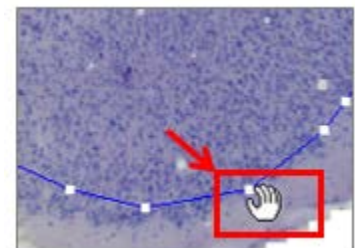


10. Edit the annotation.

- a. In the **Trace** ribbon, click the **Select objects** button.



- b. Click the annotation (i.e., the line) to select it. You will see small white squares along the line.
- c. Click and drag points (white squares) to refine the annotation.



11. Save your work.

- a. Click the **Save** button in the top left corner.
- b. Save as a data file (.dat) to save the annotations along with the image.



12. Continue working on your annotations the next day: Open the data file you saved the previous day.

- a. Click the **Open** button in the top left corner.
- b. Select the appropriate data file. Both image and annotations are displayed (in other words, you don't need to open the image stack file).



Tissue Mapper will remember to display the **Macro View**, **Image Organizer**, and **Serial Section Manager** tools.