Investigating localization within a sample section

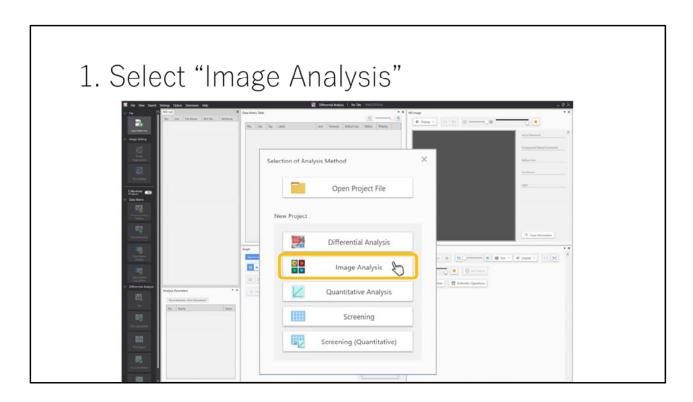
Examples

- 1. Which compounds have which distributions within the sample section?
- 2. What components colocalize with known localization?
- 3. Divide up pixels into specified cluster numbers.

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Steps

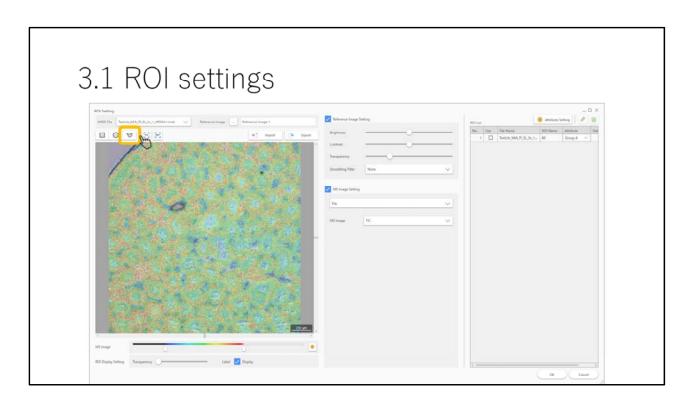
- 1. Select "Image Analysis"
- 2. Read in data
- 3. ROI settings if necessary
- 4. Data matrix table calculations
- 5. Segmentation



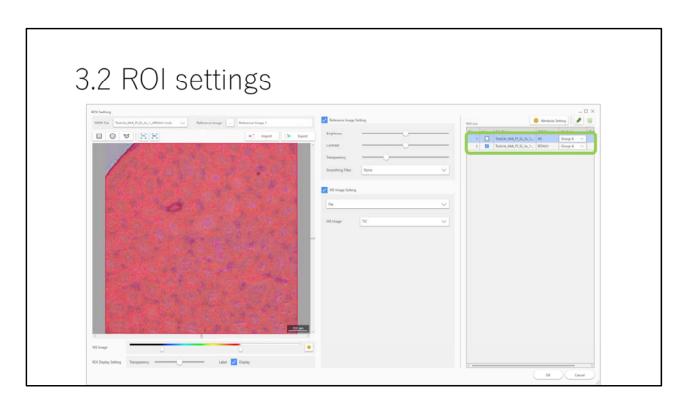
Read in a data file (.imdx format)

2. Add data file (.imdx)

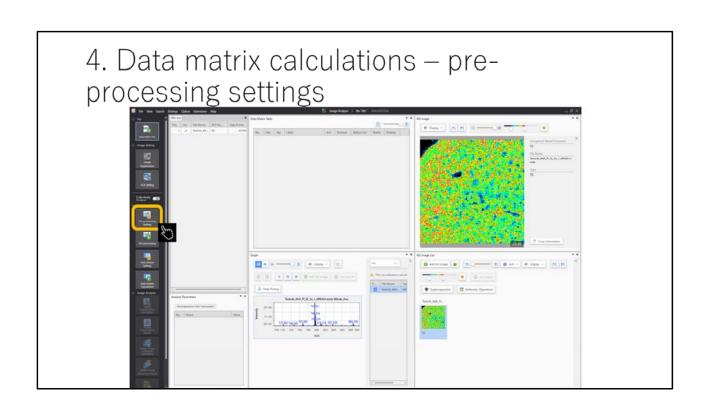




An ROI can be selected as a rectangle, a circle or a polygon.

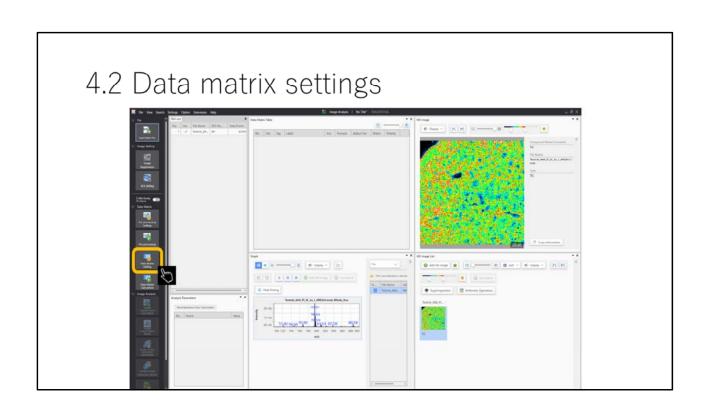


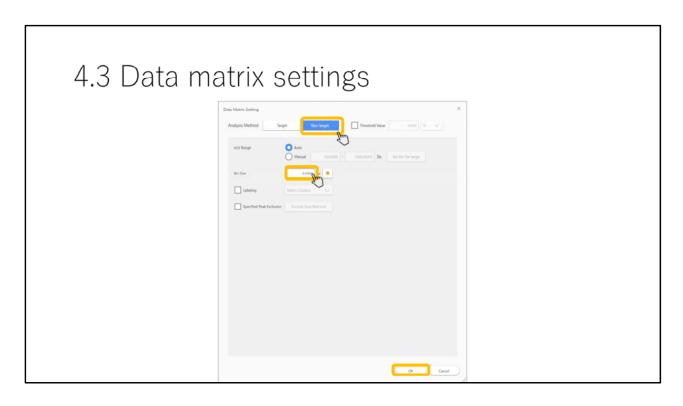
After drawing the ROI, apply attributes. (If 2 or more attributes are not set, testing cannot be started.)



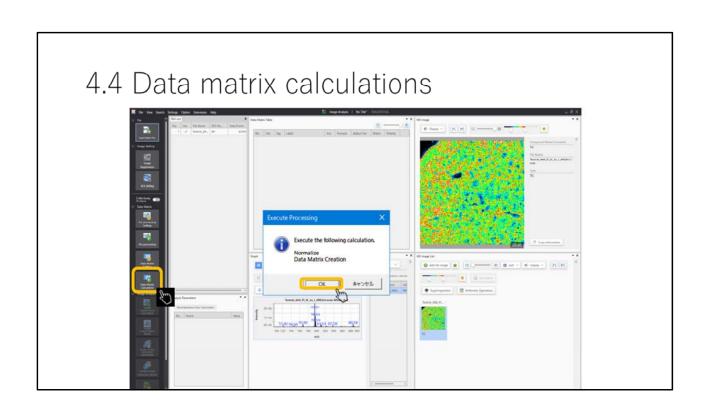
4.1 Pre-processing settings | Variable | Va

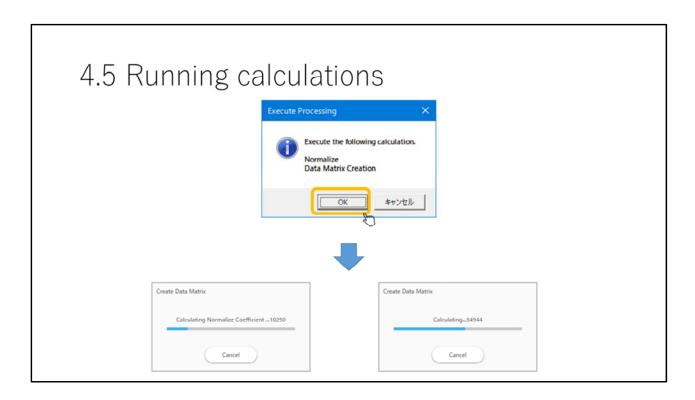
TIC is generally used.





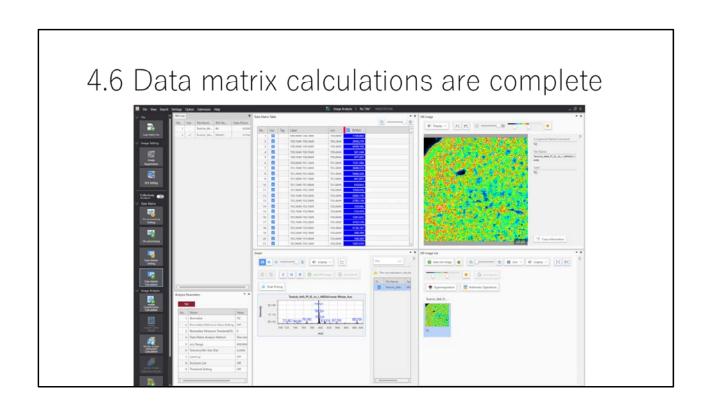
Non-target: cut out fixed widths of signal intensity from the spectrum. Target: specify particular m/z values and the tolerance width.

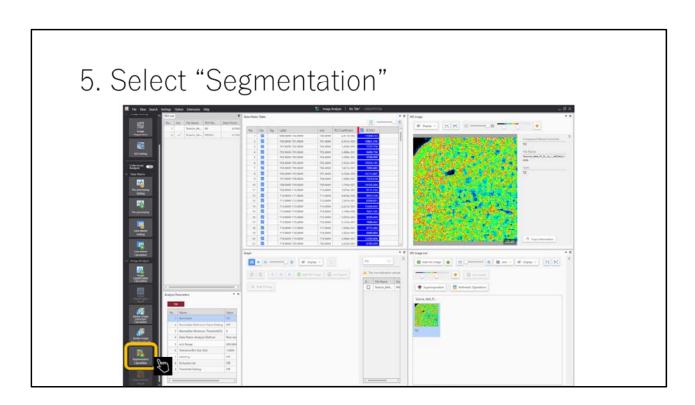




If pre-processing calculations have not yet been carried out, they will be run here at the same time.

If there are a large number of target compounds, the calculations will take longer.





If necessary, apply ROI settings. Calculate data matrices.

5.1 Segmentation parameters



Set the number of segments

In this case, there will be segment no.s 2,3,4 and 5 for a total of 4 results.

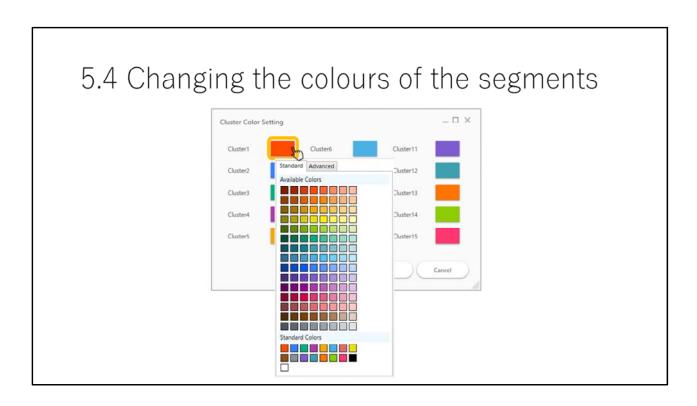
Set the number of segments.

In this case, there will be segment no.s 2,3,4 and 5 for a total of 4 results.

5.2 Segmentation calculations







The colour of each cluster can be chosen