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 We use this protocol and it's working

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🌐 Post-IMS Autofluorescence Microscopy V.1

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ABSTRACT

Scope:

Obtain autofluorescence microscopy images of tissues after IMS analysis

Expected Outcome:

A brightfield and green autofluorescence microscopy image of the tissue section that enables registration and correlation of different imaging modalities on a pixel by pixel basis.

- 1 Place microscope slide within adapter and insert into the Zeiss AxioScan Slide Scanner.
- 2 Perform Coarse focusing of the tissue using:
 GFP filter set (ex. 450–490 nm; em. 500–550, green)
 High lamp power (~90%) and moderate exposure times (~ 150 ms).
- 3 Perform Fine focusing of the tissue using:
 GFP filter set (ex. 450–490 nm; em. 500–550, green)
 Brightfield lamp at similar power and exposure time used in step 2 to build a focus map.
- 4 Define the imaging region that includes the tissue.
- 5 Acquire brightfield and autofluorescence image.

- 6 Export autofluorescence image as an OME-TIF File with the following options:
"BigTIFF", "Use Tiles", "Compress", and "Convert to 8 Bit".

Alternatively, other image file types, such as "BigTIFF" and "pngs" can also be useful, depending on the application.