

Nov 08, 2024

Manual segmentation of histology images

DOI

dx.doi.org/10.17504/protocols.io.ewov1dybpvr2/v1

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Protocol Citation: Lauren Schwartz, Derek Da Kuang, Kate O'Neill, Harley Hernandez 2024. Manual segmentation of histology images. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.ewov1dybpvr2/v1>

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Protocol status: Working

We use this protocol and it's working

Created: November 06, 2024

Last Modified: November 08, 2024

Protocol Integer ID: 111621

Keywords: manual segmentation of histology image, histology image, manual segmentation, functional tissue unit, qupath application, image

Funders Acknowledgements:

NIH

Grant ID: U54HD104392

Abstract

Here we manually segmented histology images to denote functional tissue units, using the QuPath application.

Materials

[QuPath software package](#)

Troubleshooting



- 1 View histology image (TIFF file) in **QuPath software program**.

- 2 Pathologist circled the identified functional tissue region(s).

- 3 The masked regions were exported as TIFF files. We used the following script to export the mask from QuPath to coordinates in **geoJSON** format. This script is specific to segmented tissue regions in the Fallopian tube but should be easily adapted to other tissue and regions.
<https://gist.github.com/kuang-da/f42dbe92caa9ef24924ea0b626a4535c>

- 4 Once we had the mask coordinates in the geoJSON file, we used this script to convert the coordinates from the geoJSON file into a binary mask in a TIFF file. This script is specific to segmented tissue regions in the Fallopian tube but should be easily adapted to other tissue and regions.
<https://gist.github.com/kuang-da/aac075af6e121dae4e45f9ee82e087ef>