Dec 04, 2020

HuBMAP TMC-Florida/Zurich Light Sheet Fluorescence Microscopy Modality Overview

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1 Works for me dx.doi.org/10.17504/protocols.io.bqaamsae

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ABSTRACT

This protocol is an overview of all of the protocols currently in use for the Light Sheet Fluorescence Microscopy modality at HubMAP Tissue Mapping Center,TMC-Florida/Zurich. It includes protocols.io links to each of the individual protocols that make up this project workflow, from processing tissue and imaging the samples, to uploading the final data to the HuBMAP HIVE.

DOI

dx.doi.org/10.17504/protocols.io.bqaamsae

PROTOCOL CITATION

Jerelyn Nick, Marda Jorgensen, Seth Currlin 2020. HuBMAP TMC-Florida/Zurich Light Sheet Fluorescence Microscopy Modality Overview. **protocols.io** https://dx.doi.org/10.17504/protocols.io.bqaamsae

CREATED

Dec 01, 2020

LAST MODIFIED

Dec 04, 2020

PROTOCOL INTEGER ID

45090

GUIDELINES

This workflow protocol may be interupted at any point.
Repeated runs on the same sample do not require employing the entire protocol sequence.

MATERIALS TEXT

Required materials are provided within each linked protocol.

SAFETY WARNINGS

Follow all safety guidelines provided with individual links within this protocol.

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individual protocols that make up this project workflow, from processing tissue and imaging the samples, to uploading the final data to the HuBMAP HIVE.

BEFORE STARTING

Confirm sample ID information at the start of each step.

1 Process donor organs into samples for analysis.
Lymph Node: dx.doi.org/10.17504/protocols.io.bbgnijve
Thymus: dx.doi.org/10.17504/protocols.io.bbgmiju6
Spleen: dx.doi.org/10.17504/protocols.io.bc3kiykw

2 Register organ donor, organs received and common coordinate region information in the HuBMAP UUID generator at https://uuid.hubmapconsortium.org.

3 Clear tissue using Clarity protocol:
https://www.protocols.io/view/tissue-clearing-using-clarity-method-bppimmke

4 Immunostaining of cleared tissue (large volume):
https://www.protocols.io/view/large-volume-immunostaining-for-cleared-samples-bprtmm6n

5 Image acquistion using Light Sheet Fluorescence Microsopy:
https://www.protocols.io/view/light-sheet-fluorescence-microscopy-image-acquisit-bprsmm6e

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