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

GUIDELINES
This workflow protocol may be interrupted 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.

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.bbgnjyve
   Thymus: dx.doi.org/10.17504/protocols.io.bbgmju6
   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

3 Clear tissue using Clarity protocol:

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

5 Image acquisition using Light Sheet Fluorescence Microscopy: