



Version 2 ▾

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Imaging Mass Cytometry Modality Overview V.2

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Works for me

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

Human BioMolecular Atlas Program (HuBMAP) Method Development Community
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- 1 Process donor organs into samples for analysis.
 Lymph Node: dx.doi.org/10.17504/protocols.io.bbgnijve
<https://drive.google.com/drive/my-drive>
 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 Prepare paraffin blocks from tissue samples.
 Cassette Processing: dx.doi.org/10.17504/protocols.io.8nzhvf6
 Paraffin Embedding: dx.doi.org/10.17504/protocols.io.bam9ic96
- 4 Package and send paraffin blocks to the Bodenmiller lab: dx.doi.org/10.17504/protocols.io.bf5njq5e
- 5 Conjugate primary antibodies using the Maxpar Antibody Labeling Kit: dx.doi.org/10.17504/protocols.io.bf5jjq4n
- 6 Cut and mount paraffin sections for staining and analysis.
 Sectioning: dx.doi.org/10.17504/protocols.io.bfz4jp8w
- 7 Antibody staining of paraffin sections for Imaging Mass Cytometry: dx.doi.org/10.17504/protocols.io.bfz8jp9w
- 8 Prepare a slide to use for compensation: dx.doi.org/10.17504/protocols.io.bf2djqa6
- 9 Tune the Image Mass Cytometer for acquisition: dx.doi.org/10.17504/protocols.io.bf2gjqbw
- 10 Data Acquisition by Image Mass Cytometry: dx.doi.org/10.17504/protocols.io.bf2ijqce
- 11 Compensation Slide Acquisition: dx.doi.org/10.17504/protocols.io.bf2jjqcn

12 Image Processing and Segmentation: <https://github.com/BodenmillerGroup/ImcSegmentationPipeline>

13 Load Imaging Mass Cytometry Datasets onto Hipergator:

☐ [IMC_Transfer Data Zurich to HPG.docx](#)

14 Prepare and upload data to the HuBMAP HIVE Globus landing pad using Hipergator.

☐ [IMC Transfer data from Hipergator to HuBMAP HIVE Globus.docx](#)