

May 08, 2020 Version 1

Imaging Mass Cytometry Modality Overview V.1

DOI

dx.doi.org/10.17504/protocols.io.bf3kjqkw

Michelle Daniel¹, Marda Jorgensen²

¹University of Zurich; ²University of Florida

Human BioMolecular Atlas Program (HuBMAP) Method Development Community
Tech. support email: Jeff.spraggins@vanderbilt.edu



Francesca Farris

OPEN  ACCESS



DOI: dx.doi.org/10.17504/protocols.io.bf3kjqkw

Protocol Citation: Michelle Daniel, Marda Jorgensen 2020. Imaging Mass Cytometry Modality Overview . **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.bf3kjqkw>

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: May 06, 2020

Last Modified: May 08, 2020

Protocol Integer ID: 36684

Keywords: HuBMAP, Imaging Mass Cytometry, TMC-Florida/Zurich



- 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 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.bf2gjgbw
- 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 Load Imaging Mass Cytometry Datasets onto Hipergator:

 IMC_Transfer Data Zurich to HPG.d...



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



IMC Transfer data from Hipergator ...