May 08, 2020   Version 1

🌐 Imaging Mass Cytometry Modality Overview V.1

Michelle Daniel[1], Marda Jorgensen[2]

[1]Unversity of Zurich; [2]University of Florida

👤 Franchesca Farris

OPEN 🔓 ACCESS

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.bf2gjqbw

10 Data Acquisition by Image Mass Cytometry: **dx.doi.org/10.17504/protocols.io.bf2ijqce**

11 Compensation Slide Acquistion: **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 ...