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🌐 HuBMAP | GE/UPitt Cell DIVE™ Modality Overview

Liz McDonough¹

¹GE Research

Human BioMolecular Atlas Program (HuBMAP) Method Development Community

GE

Liz McDonough

GE Research

ABSTRACT

This is an overview of all protocols currently in use for the GE/UPitt Cell DIVE collaboration for the Human BioMolecular Atlas Program (HuBMAP). It includes links to each of the individual protocols that make up this project workflow.

OPEN ACCESS

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Protocol status: Working
We use this protocol and it's working

Created: Dec 09, 2020

Last Modified: Jan 28, 2021

PROTOCOL integer ID:
45386

- 1 Confirm donor acceptance criteria for inclusion.

[Donor Acceptance Criteria for GE/UPitt HuBMAP Inclusion](#)

- 2 Prepare paraffin blocks and FFPE sections from tissue samples.

[HuBMAP | Formalin Fixation and Paraffin Embedding of Tissue Samples](#)

[HuBMAP | Sectioning of FFPE Specimens](#)

- 3 Deparaffinize and rehydrate slides.

[Cell DIVE™ Platform | Slide Clearing and Antigen Retrieval](#)

- 4 Characterize antibodies (primary/secondary, direct conjugates, and zenon labelled antibodies) and determine any antigen effects from the Cell DIVE dye inactivation process.

[Cell DIVE™ Platform | Antibody Characterization for Multiplexing](#)
[Cell DIVE™ Platform | Antibody Staining & Imaging](#)

- 5 Prepare direct conjugates for study.

[Cell DIVE™ Platform | Antibody Purification Chemistry](#)
[Cell DIVE™ Platform | Ab Conjugation: Initial Conjugation & Scale up Conjugation](#)

- 6 Perform Cell DIVE™ multiplexed data acquisition on the final cohort.

Note

Staining is done using the Leica Bond MAX and images are acquired on the IN Cell Analyzer 2200.