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HuBMAP | GE/URMC/SCH Cell DIVE™ Modality Overview

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GE Research

Lisa Lowery

This is an overview of all protocols currently in use for the GE/URMC/SCH 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.

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protocol ,

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Feb 02, 2022 Liz McDonough GE Research

Feb 28, 2022 Lisa Lowery

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Confirm donor acceptance criteria for inclusion.

1

URMC | Donor Acceptance Criteria for GE/URMC HuBMAP Inclusion
URMC | COVID+ Donor Acceptance Criteria for GE/URMC HuBMAP Inclusion

2 Prepare paraffin blocks and FFPE sections from tissue samples.

URMC | Whole Lung and Lobe Processing - Formalin Fixation and Gross Sectioning of Tissue Samples
URMC | Parrafin Embedding and Sectioning of FFPE Lung Tissue

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.

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

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