

# DRT Group Name

Microscopy

# Who we are

Center	Technology	Bench	Data
TMC Stanford	CODEX	Sarah/Christian	Vishal
TMC Caltech	seqFISH	Nina	Nico
TMC UCSD	Dart FISH	Richard	Richard
TMC VU	CODEX	Elizabeth	Heath
TMC UF	CODEX	Marda	Jesus
TMC UF	Lightsheet	Seth	Seth
TMC UF	Imaging Mass Cytometry	Dana	Anton

Clive Product Owner

Clive/Marda Technical Contact

Maria HIVE contact

# What is our goal?

1. DRT: Proactively identify, discuss, and decide on all topics required to support a minimum viable data release for microscopy data and tools
2. Workstream: execute and deliver on all data and tools required to support a minimum viable data release for microscopy

# What we have done so far

Goal	% Done
Identify Assays & Centers & Reps	99%
Processing pipeline defined	80%
Specific workflow for assay at each Center	80%
Metadata definition and extraction	80%
Data transfer to Hive test	90%
QC metrics	10%
Workflow documentation	10%
Automated report generation	10%
Common set of markers	0%
Data integration (CCF, visualization...)	0%
Common set of reagents	0%
Understand how to validate and transfer processing pipeline to HIVE.	0%

# What we hope to achieve today

- 1) **Definitions of our workflow (metadata extraction, QC metrics, documentation) and timeline**
- 2) **What preliminary data, if any, would be best to share with the infrastructure & portal folks within the next month?**
- 3) **Mapping 2D then 3D?**
- 4) Which data types will we start with trying to integrate first? (e.g. 10x and Codex)
- 5) What approach will we take to integrate microscopy data? To integrate microscopy data with sequencing and/or mass spec? If unknown, in what forum will we make that decision?
- 6) What protocols.io related work does Microscopy need to focus on? What do we need IEC folks to do for protocols.io?

Assume TMC scientists initial end users expand after the first release