# HuBMAP Y3:Q1 Demo Day

*Website will follow format similar to* [*https://ccfws.cns.iu.edu/*](https://ccfws.cns.iu.edu/)

[Navigation bar along top of webpage to jump to any section with ease, i.e. Dates, Goals, Location, Registration, Organizers, Agenda, Social Media, Ackn]

**Times & Dates**

10:30am - 6:00pm EDT, September 21-22, 2020

**Goals**

This meeting will focus on cell segmentation, annotation, but also cell nomenclature. Session topics to be covered include:

* Retrospective for 1st Portal Release
* Planning Data/Portal Releases for coming 2 years, particularly discuss progress on and planned integration of work on
  + New data and workflows (new TMCs were added)
  + Data harmonization and cell type naming via Seurat
  + Segmentation of cells and anatomical structures (e.g., glomeruli in kidney, crypts on colon)
  + Clinical and basic science metadata (ensuring that experimental data map to ontologies)
  + CCF Ontologies (ASCT+B tables, cross-walks, advancing existing ontologies)
  + Common coordinate framework (CCF) and user interfaces
  + Portal user studies and UX optimization
  + Data ingest from other consortia, HuBMAP APIs
  + Tech Marker Paper
  + Science Communication

Note that HIVE and other HuBMAP teams will be invited to submit posters and videos of their work BEFORE the meeting. This reduces the time needed to **review completed work** and makes more time for **discussion and integration of planned work**.

**Participants**

All HIVE members are strongly encouraged to attend. Other HuBMAP members (e.g., from TMCs, TTDs, RTIs, external advisors) will be invited and are most welcome to join and participate actively. Invited talks will be advertised to the larger scientific community, live broadcast online, recorded and made available after the event.

**Location**

This is a virtual event hosted by MC-IU at Indiana University. Zoom link will be provided upon registration.

**Registration**

<https://docs.google.com/forms/d/e/1FAIpQLSe-2iRhwdlZX-vmBkOiVKMruLvbU3SghkZmPJgO4PjBvw8TsA/viewform?usp=sf_link>

**Local Organizers from MC-IU Team**

All of us are members of the Cyberinfrastructure for Network Science Center (CNS) at the Luddy School of Informatics, Computing, and Engineering, Indiana University.

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| --- | --- | --- |
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|  | Lynn Waugh  <lrwaugh@iu.edu> | Office of IU Events Event Manager |

**Agenda**

All times are in Eastern Daylight Time (UTC-4)

\*Speakers and session leads have not yet been contacted

**September 21, 2020**

The first day focuses on a debrief of the first data/portal release in the morning followed by a discussion and planning session for the second portal release including a longer-range discussion of portal features. Goal: Sketch out a tentative roadmap for the next 2+ years for the portal (and data) releases.

10:30am Welcome by Richard Conroy (NIH) and Katy Börner (IU)

10:45am Setting the Stage: HIVE Teams present

* + - 1st Portal Release Retrospective (what worked/did not work)
    - Y3 key deliverables and planned collaborations

(10mins + 5min discussion each)

1. IEC
2. TC-CMU
3. TC-Harvard
4. MC-IU
5. MC-NYGC

12:00pm *Lunch Break* / Poster Session + Open Laptops

1:00pm Breakout Session: Roadmap for Next 2 Years (A)

* + - * New data and workflows (Ziv, Clive)
      * Data harmonization and cell type naming via Seurat (Rahul, Peter K)
      * Segmentation of cells and anatomical structures (e.g., glomeruli) (Jeff, Katy)
      * Ontologies (metadata and CCF ontologies) (Jonathan S, Mark Musen, Stanford U)

2:00pm Report Back *4 groups, 5 minutes each + 2 minutes questions*

2:30pm Invited Speaker:

Alexander D. Diehl, University of New York at Buffalo: Cell Ontology

3:30pm *Break* / Poster Session + Open Laptops

4:30pm Breakout Session: Roadmap for Next 2 Years (B)

* + - * Common coordinate framework & user interfaces (Katy, Rahul)
      * Portal UX design and user studies (Nils, Lisel)
      * Data ingest from other consortia, HuBMAP APIs (IEC, Ziv)
      * Scientific questions and science communication (Robin, Zorina?)

5:30pm Report Back *4 groups, 5 minutes each + 2 minutes questions*

6:00pm Adjourn

**September 22, 2020**

The second day features discussions and hands-on sessions on 1) cell segmentation, 2) cell type annotation, 3) CCF, 4) outreach materials but also on HuBMAP superpowers and optimizing HIVE planning and coordination.

10:30am Invited Speaker:   
 Amy Bernard, Allen Institute: Cell Type Annotation and [Nomenclature](https://arxiv.org/ftp/arxiv/papers/2006/2006.05406.pdf)

11:30am 4 Breakout Sessions

* Cell segmentation
  + - * Cell type annotation
      * CCF
      * Outreach materials

12:30pm Report Back *4 groups, 5 minutes each + 2 minutes questions*

1:00pm *Lunch Break*

1:30pm 4 Breakout Sessions on Unique HuBMAP Superpowers

* + - * Spatial and semantic data collection, registration, and integrating via common coordinate framework and 3D Atlas
      * Diverse types of data and how it can be anchored / integrated and harmonized for analysis and visualization
      * Segmenting, annotating and visualizing multimodal data
      * Interoperable FAIR data and open APIs

2:30pm Report Back *4 groups, 5 minutes each + 2 minutes questions*

3:00pm 4 Breakout Sessions on Optimizing Planning & Coordination

* + - * Within HIVE
      * Within HuBMAP
      * Within NIH (e.g., via CFDE)
      * HuBMAP External

4:00pm Report Back *4 groups, 5 minutes each + 2 minutes questions*

4:30pm *Closing words*

4:45pm PI Meeting, NIH is welcome to attend

5:45pm Adjourn

**Social Media**

HuBMAP twitter feed: @\_hubmap

Hashtag(s): #HuBMAP

**Acknowledgements**

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