2021 CCF ASCT+B Table Workshop

**Google Folder:** <https://drive.google.com/drive/folders/12mqQXUn1qBfasO4EHqB4tJuYwS9vb78y?usp=sharing>

**Asana Board:** <https://app.asana.com/0/1199605159875702/1199605159875702>

**List of attendees:** <https://docs.google.com/spreadsheets/d/111SbWzAUmC3RUAsWhJ21WUmXxG73c6M7LPTtgfGxJrU/edit#gid=0>

**Weekly meetings:** Wednesdays at 9am

<https://iu.zoom.us/j/81373906075?pwd=azlHSTFKdEtHekp3TFFqRU9ZcTZMZz09>

Meeting ID: 813 7390 6075

Password: 566972

**Jan 13, 2021**

**Working Agenda**

## **Event Description**

Anatomical Structures, Cell Types, plus Biomarkers (ASCT+B) tables aim to capture the nested *part\_of* structure of anatomical human body parts, the typology of cells, and biomarkers used to identify cell types (e.g., gene, protein, lipid or metabolic markers). The tables are authored and reviewed by an international team of anatomists, pathologists, physicians, and other experts. During this workshop 11 tables will be finalized and readied for publication.

**Dates and Times**

Feb 2 11:30am -1:30pm Eastern

Feb 9 11:30am - 1:30pm Eastern

**Agenda**

**Feb 2 11:30am -1:30pm ET**

11:30a Welcome by Organizers and Introduction of MC Andi Bueckle (Katy Börner, James Gee, Ellen Quardokus)

11:35a Status Report on 11 Tables, 3D Reference Organs, Additional Info (Katy Börner)

12:00p Open discussion of how tables/reference organs were constructed. Is there a way to further unify their structure/content (e.g., using vasculature terms to interlink the different organs?) (Griffin Weber, HMS)

12:30p Discuss limitations of current tables/reference organs, what critical information was left out to fit the [v2.0 table format](https://docs.google.com/spreadsheets/d/1bsA-HngthTD7NtzAfab8t3EVjFFT439-Pc-mp_mdZUU/edit#gid=0) and what fields should be added in future versions? (Katy Börner & Ellen Quardokus)

1:00p Open Discussion of TODOs for *NCB* paper (Katy Börner)

1:30p Adjourn

**Feb 9 11:30am - 1:30pm**

11:30a Welcome by Organizers and Introduction of MC Andi Bueckle (Katy Börner, James Gee, Ellen Quardokus)

11:35a Status Report on 11 Tables, 3D Reference Organs, Additional Info (Katy Börner)

11:45 ASCT+B Use Cases (7mins each)

* Use case #1: CCF design in HuBMAP (Katy Börner)
* Use case #2: ASCT+B Table use in KPMP (Sanjay Jain)
* Use case #3: TBD (Sarah Teichman)
* Use case #4: CODEX Imaging of the Colon and Small Bowel (John Hickey)

12:15 Open Discussion of TODOs for *NCB* paper (Katy Börner)

12:30 Outlook (10min each)

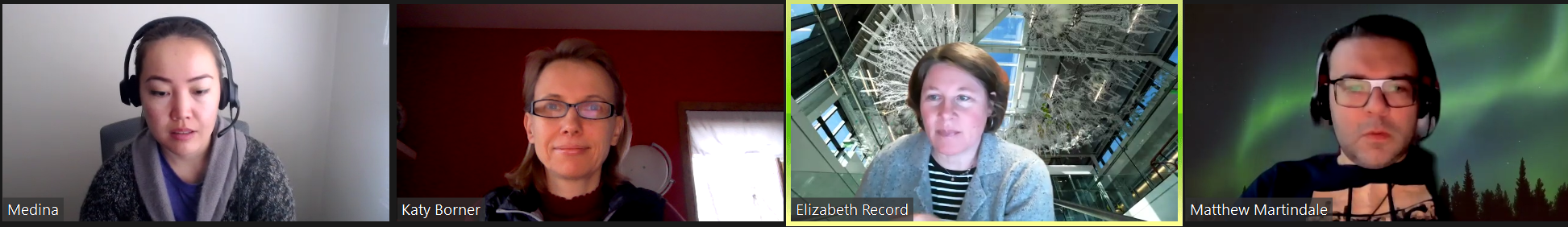
* How to update ontologies to reflect data in ASCT+B tables (David OS, Chris Mungall)
* Updating the SOP for tables/reference organ construction (Ellen Quardokus)
* Feature requests for table data format and ASCT+B Reporter v2.0 (Hrishikesh Paul, Mark Musen)

1:30p Adjourn

**Participants**

* Bone Marrow and Blood - Muzz A Haniffa, Newcastle, UK
* Brain - Amy Bernard, Allen Institute
* Intestine, Large - Teri A Longacre, Stanford U
* Heart - Shin Lin, UW
* Kidney - Sanjay Jain, WUSTL
* Lung - Gloria Pryhuber, U Rochester
* Lymph Nodes - Marda Jorgensen, UFL
* Skin - Fiona Ginty, GE
* Spleen - Marda Jorgensen, UFL
* Thymus - Maigan Brusko, UFL
* Vasculature - Griffin Weber, HMS

**Jan 6, 2021**

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Content for web page by Friday (see draft at the end of the email)

* Event description
* Date and Time
* Agenda
* Photos of [attendees](https://docs.google.com/spreadsheets/d/111SbWzAUmC3RUAsWhJ21WUmXxG73c6M7LPTtgfGxJrU/edit#gid=0)

Registration list - what confirmations are we missing?

* <https://docs.google.com/spreadsheets/d/111SbWzAUmC3RUAsWhJ21WUmXxG73c6M7LPTtgfGxJrU/edit#gid=0>
* Matt to ping the last 2 non-responsive people with Katy in cc

Asana board - now updated

Evaluate Zoom event self-registration by participants not needed for this small event

Video filters in Zoom (Medina will share this as a CAI talk)

Participants will deliver table, 3D organ, additional pieces communicated

Medina to join meeting with Katy and Ellen at 1:30 today for first 10 minutes

Katy to complete agenda by Friday 1/8

**Open questions:**

Do we need an MC (assume Katy will serve in this role)? Ask Andi if he would like to serve in this role.-done LGR

Is any publicity desired and if so, what type? Katy will discuss in Exec. Steering Committee meeting. Major publicity around successful paper publication.

Will there be posters? No posters

Do you need a whiteboard format for collaborating on the tables? Or a convenient place to link all tables for ease of access by participants? Will use shared slides, no whiteboard collaboration space required

Do you want zoom backgrounds custom designed for the event? Yes-Cross Consortium Meeting so design something new, maybe riff off multiple global heads in the top right from NIH meeting

What expectations are there for sharing/confidentiality? Will the sessions be recorded and if so, how will recordings be shared?Treat as a work session with no public visibility since the product is the finished tables? Record all but do not share. Can share within the HuBMAP Google Dir.

**Dec 11, 2020**

Virtual

Set up zoom link(s)

Do we need breakout sessions? One session, no breakouts

Matt to take lead on communication (holding slides)

Medina lead on tech

* zoom with registration and we will record the event
* Polls to be used at the end of the event (feedbacks)
* Website work with Perla the same as last time

Need a 1 paragraph description of the event

Do we need a web presence? Probably just a workshop page from Perla same as CCF workshop, with photos of attendees, etc.

Set up a google drive folder to collect presentations

**Agenda:**

Feb 2 11:30am -1:30pm

11 table presentations

Discussion of what else is needed

Feb 9 11:30am - 1:30pm

Critique presentation

Q&A

**Attendees**

Ellen

Leah

11 table leads

Katy

Confirm their availability (small group, attendance is critical)

Title: CCF ASCT+B Tables Workshop

Explain what an ASCT+B table is as opening sentence

See here: <https://hubmapconsortium.github.io/ccf/pages/ccf-anatomical-structures.html>

Send Hold the Date on Monday: Matt to track confirmations from attendees

Record entire event

Check with Ellen is she is available at this time =- nope, propose Tuesdays instead

ACTION ITEM: Matt will draft an invitation email for Katy-done

ACTION ITEM: Katy to send invitation

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## Webpage Content

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| 11:35a | Status Report on 11 Tables, 3D Reference Organs, Additional Info (Katy Börner) |
| 12:00p | Open Discussion of Table Construction (Griffin Weber) |
| 12:30p | Discussion of Limitations (Katy Börner & Ellen Quardokus) |
| 1:00p | Open Discussion of TODOs for *NCB* paper (Katy Börner) |
| 1:30p | Adjourn |

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* Vasculature - Griffin Weber, HMS

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| --- | --- | --- |
| **Participants** | | |
|  | **Name** | **Affiliation** |
|  | Katy Börner  WG Organizer, DataVis | Victor H. Yngve Distinguished Professor of Engineering and Information Science  Director, CNS, Indiana University |
|  | Maigan Brusko | Research Director, Human Atlas of Neonatal Development and Early Life– Immunity (HANDEL-I) project, Department of Biomedical Engineering  University of Florida |
|  | Zorina Galis  [Vasculature icon] | Chief, Vascular Biology and Hypertension, National Heart Lung and  Blood Institute/National Institutes of Health, Bethesda, MD |
|  | Amy Bernard | Director, Science & Technology Strategy, Allen Institute |
|  | James Gee  ASCT+B WG organizer | Director, Penn Image Computing and Science Laboratory, University of Pennsylvania |
|  | Fiona Ginty | Biosciences Technology Manager & Principal Investigator, GE Global Research |
|  | Muzz Haniffa | Wellcome Trust Senior Research Fellow in Clinical Science, Newcastle University |
|  | Sanjay Jain | Director, Kidney Translational Research Center, Washington University in St. Louis |
|  | Marda Jorgensen | Senior Scientist, University of Florida |
|  | Shin Lin | Assistant Professor, University of Washington |
|  | Teri Longacre [l](mailto:longacre@stanford.edu) | Professor in Surgical Pathology,  Stanford University |
|  | Anna Maria Masci | Research Scientist, NIH |
|  | Chris Mungall  Uberon | Department Head, Biosystems Data Science Computer Staff Scientist/Engineer, Lawrence Berkeley National Laboratory |
|  | Mark Musen  Ontologies | Director, Stanford Center for Biomedical Informatics Research |
|  | David Osumi-Sutherland  Uberon | Ontologist/Semantic Design, Human Cell Atlas, EMBL |
|  | Gloria Pryhuber | Professor - Department of Pediatrics , Neonatology (SMD), Department of Pediatrics, University of Rochester Medical Center |
|  | Ellen Quardokus  ASCT+B Tables | Senior Research Analyst, CNS, Indiana University |
|  | Andrea Radtke | PhD, Lymphocyte Biology Section, Laboratory of Systems Biology, NIAID, NIH |
|  | Griffin Weber | Associate Professor of Biomedical Informatics, Harvard Medical School |
|  | Andreas Bueckle  Master of Ceremonies & 3D Reference Organs | PhD Candidate in Information Science, CNS, Indiana University |

#### **Social Media**

#### HuBMAP twitter feed: @\_hubmap

#### Hashtag: #HuBMAP

#### Acknowledgements

The first ASCT+B table was published for the kidney by the Kidney Precision Medicine Project (KPMP) in "[A Multimodal and Integrated Approach to Interrogate Human Kidney Biopsies with Rigor and Reproducibility: The Kidney Precision Medicine Project](https://biorxiv.org/cgi/content/short/828665v1)". Katy Börner (HuBMAP, KPMP), Peter Hunter (SPARC), and James Gee (BICCN) organized a CCF session at the 2020 Joint NIH-HCA Meeting. This session brought together experts from multiple consortia to develop ASCT+B tables in an effort to create a unified view of healthy human anatomy, cell types, and biomarkers. Mark Musen, Chris Mungall, and David Osumi-Sutherland provided expert guidance on linking ASCT+B tables to existing ontologies.