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**Subject:** Re: BARseq instrument and acquisition .json files for metadata  
**Date:** Friday, February 13, 2026 at 5:21:46 PM Pacific Standard Time  
**From:** Daniel Birman  
**To:** Xiaoyin Chen, Doug Ollerenshaw, Aixin Zhang, Saskia de Vries, Polina Kosillo  
**CC:** Yoh Isogai, Carolyn Eng

Polina and I are working on the procedures next week, we will have the specimen\_ids once we have the procedures written.

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**From:** Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>  
**Sent:** Friday, February 13, 2026 5:15 PM  
**To:** Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>; Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>; Saskia de Vries <[saskiad@alleninstitute.org](mailto:saskiad@alleninstitute.org)>; Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>  
**Cc:** Yoh Isogai <[yoh.isogai@alleninstitute.org](mailto:yoh.isogai@alleninstitute.org)>; Carolyn Eng <[carolyn.eng@alleninstitute.org](mailto:carolyn.eng@alleninstitute.org)>; Daniel Birman <[daniel.birman@alleninstitute.org](mailto:daniel.birman@alleninstitute.org)>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi Doug,

Here is what I can answer:

Q1: Probably Polina/Mara knows this? In addition I'm not sure the geneseq/bcseq channels are correct. In earlier experiments, we do G/T/A/C/DIC for Geneseq and bcseq, and at some point, we switched to do G/T/A/C/DAPI for both. In both cases, my recollection is that the DAPI or DIC channel is only collected on cycle 1. Could Polina please check the max projection images to see what the 5<sup>th</sup> channel is, and whether this is present in the later cycles?

Q2: XC2758, XC2759 are correct, XC2760 is Cy5, YS221 is TxRed

Q3: Polina probably knows?

Q4: It probably should. In the early versions, the DIC channel is used to do cross-cycle-type registration. Aixin can probably look at the filters. Illumina source is an LED transmitted light (no laser), and Aixin can probably look up filters and exposure.

Q5: This varies in every one of our experiments, and are only standardized after CCF registration. For these particular experiments, Polina can probably look at the orientations.

Q6:

1. Polina probably knows. This can be easily looked up in the filenames, because the filenames are structured as POS{n}\_{xxx}\_{yyy}, where xxx and yyy are x/y coordinates in the tile.
2. I'm not fully understanding this. I would imagine that the first tile start at (0,0), because otherwise you get negative coordinates for some pixels.

Xiaoyin

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**From:** Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>  
**Sent:** Friday, February 13, 2026 5:00 PM  
**To:** Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>; Saskia de Vries <[saskiad@alleninstitute.org](mailto:saskiad@alleninstitute.org)>; Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>; Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>  
**Cc:** Yoh Isogai <[yoh.isogai@alleninstitute.org](mailto:yoh.isogai@alleninstitute.org)>; Carolyn Eng <[carolyn.eng@alleninstitute.org](mailto:carolyn.eng@alleninstitute.org)>; Daniel Birman <[daniel.birman@alleninstitute.org](mailto:daniel.birman@alleninstitute.org)>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi all, I've been iterating on a set of acquisition.json metadata files to represent the three different acquisition phases based on all of the information and feedback I've gotten so far.

A subset of us are set to meet on Monday afternoon so I wanted to share what I had so far in advance so we can use some of that time to resolve details that are either unknown or incorrect. I took advantage of Claude code to help build this out and I also used it to generate a summary doc that outlines the outstanding questions and most of the assumptions that I've made so far. See the attached PDF doc. If everyone could read the top section (above the implementation details) and help me gather answers, I'd really appreciate it. There's a lot that I don't fully understand about the science here, so please call out anything that's inaccurate or just doesn't make sense.

Feel free to read beyond that if you're willing to help sanity check assumptions.

I'm also sharing GitHub links to the acquisition files themselves for anyone willing to take a look.

Link to summary doc: [https://github.com/AllenNeuralDynamics/aind-data-schema/blob/add\\_barseq\\_acquisition/examples/2026.01.16\\_barseq\\_acquisition/SUMMARY.md](https://github.com/AllenNeuralDynamics/aind-data-schema/blob/add_barseq_acquisition/examples/2026.01.16_barseq_acquisition/SUMMARY.md)

Link to acquisition JSONs:

[https://github.com/AllenNeuralDynamics/aind-data-schema/blob/add\\_barseq\\_acquisition/examples/2026.01.16\\_barseq\\_acquisition/barseq\\_780346\\_barcodeeq\\_acquisition.json](https://github.com/AllenNeuralDynamics/aind-data-schema/blob/add_barseq_acquisition/examples/2026.01.16_barseq_acquisition/barseq_780346_barcodeeq_acquisition.json)  
[https://github.com/AllenNeuralDynamics/aind-data-schema/blob/add\\_barseq\\_acquisition/examples/2026.01.16\\_barseq\\_acquisition/barseq\\_780346\\_geneseq\\_acquisition.json](https://github.com/AllenNeuralDynamics/aind-data-schema/blob/add_barseq_acquisition/examples/2026.01.16_barseq_acquisition/barseq_780346_geneseq_acquisition.json)  
[https://github.com/AllenNeuralDynamics/aind-data-schema/blob/add\\_barseq\\_acquisition/examples/2026.01.16\\_barseq\\_acquisition/barseq\\_780346\\_hyb\\_acquisition.json](https://github.com/AllenNeuralDynamics/aind-data-schema/blob/add_barseq_acquisition/examples/2026.01.16_barseq_acquisition/barseq_780346_hyb_acquisition.json)

Thanks all. Have a great weekend.  
Doug

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**From:** Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>  
**Date:** Monday, February 9, 2026 at 11:44 PM  
**To:** Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>, Saskia de Vries <[saskiad@alleninstitute.org](mailto:saskiad@alleninstitute.org)>, Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>, Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>  
**Cc:** Yoh Isogai <[yoh.isogai@alleninstitute.org](mailto:yoh.isogai@alleninstitute.org)>, Carolyn Eng <[carolyn.eng@alleninstitute.org](mailto:carolyn.eng@alleninstitute.org)>, Daniel Birman <[daniel.birman@alleninstitute.org](mailto:daniel.birman@alleninstitute.org)>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hello Doug,  
I can answer some of these questions:

1. Pixel size is 0.33
2. Dimensions of each tile before max projection is 3200x3200x100 in geneseq01 and bcseq01, 3200x3200x120 in any hyb cycle, 3200x3200x80 in any geneseq02+ and bcseq02+. The dimension is in pixel space. We don't save the raw images only save the max projection images. The software will automatically delete the raw image stacks if the number of max projection matched with the required tile number.  
  
Acquisition channel order:  
Geneseq01 and bcseq01: G T A C Hyb-DAPI  
Geneseq02+ and bc seq02+: G T A C  
Hyb: Hyb-GFP Hyb-YFP Hyb-TxRed Hyb-Cy5 Hyb-DAPI DIC
3. Xiaoyin may look up for you.
4. exposure time is: G 60, T 30, A 20, C 40, DIC 20, Hyb-GFP 100, Hyb-YFP 30, Hyb-TxRed 30, Hyb-Cy5 20, Hyb-DAPI 20.
5. I think now image core will help us collect data.

Let me know if you have any questions! Thank you!

Best  
Aixin

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**From:** Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>  
**Sent:** Monday, February 9, 2026 3:03:59 PM  
**To:** Saskia de Vries <[saskiad@alleninstitute.org](mailto:saskiad@alleninstitute.org)>, Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>, Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>, Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>  
**Cc:** Yoh Isogai <[yoh.isogai@alleninstitute.org](mailto:yoh.isogai@alleninstitute.org)>, Carolyn Eng <[carolyn.eng@alleninstitute.org](mailto:carolyn.eng@alleninstitute.org)>, Daniel Birman <[daniel.birman@alleninstitute.org](mailto:daniel.birman@alleninstitute.org)>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi all, following up here and adding Dan to the thread.

Can anyone point me to the location of the raw data assets so I can try to infer approximate timestamps?

I also have some additional questions (probably more will follow).

1. What is the pixels-to-microns scale for the scope?
2. For the metadata, we need to know the position and acquisition order of every image that gets saved to disk. These are the tiles in x/y/z space that are then used to create the max projection. This can be in pixel space or real space, whichever is easiest.
3. What are the excitation and emission wavelengths?
4. What are the exposure times?
5. Who actually collected the data.

If any of that can be pulled automatically from the raw data path, let me know and I can dig in and see what I can extract once I have the paths to that raw data.

Doug

---

**From:** Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>  
**Date:** Friday, February 6, 2026 at 10:47 AM  
**To:** Saskia de Vries <[saskiad@alleninstitute.org](mailto:saskiad@alleninstitute.org)>, Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>, Polina Kosillo

<[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>, Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>  
**Cc:** Yoh Isogai <yoh.isogai@alleninstitute.org>, Carolyn Eng <carolyn.eng@alleninstitute.org>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi all,

I'm back to working on building out the acquisition.jsons. Given Saskia's feedback, there'll be three of them, corresponding to three distinct raw assets, one for each round of data acquisition.

When we last met (Saskia, Caroline, You and Polina), I believe the plan was for me to use the max projection files as a source for the date time fields that are needed the acquisition file. Can someone point me to those files for subjects 780345 and 780346?

Thanks,  
Doug

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**From:** Saskia de Vries <[saskiad@alleninstitute.org](mailto:saskiad@alleninstitute.org)>  
**Date:** Tuesday, January 20, 2026 at 9:59 AM  
**To:** Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>, Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>, Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>, Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>  
**Cc:** Yoh Isogai <yoh.isogai@alleninstitute.org>, Carolyn Eng <carolyn.eng@alleninstitute.org>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

No, I don't agree. Each cycle has a folder of images. That is one asset with one acquisition. These different assets then get processed together to create a single derived asset.

**Saskia de Vries**  
Associate Director, Data and Outreach  
Allen Institute for Neural Dynamics  
(she/her)

[Book time with Saskia de Vries.](#)

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**From:** Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>  
**Date:** Tuesday, January 20, 2026 at 7:36 AM  
**To:** Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>, Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>, Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>  
**Cc:** Yoh Isogai <yoh.isogai@alleninstitute.org>, Carolyn Eng <carolyn.eng@alleninstitute.org>, Saskia de Vries <saskiad@alleninstitute.org>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Thanks Xiaoyin. It sounds like treating a dataset as a single asset described by a single acquisition.json makes the most sense. Saskia, do you agree?

Doug

---

**From:** Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>  
**Date:** Friday, January 16, 2026 at 6:00 PM  
**To:** Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>, Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>, Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>  
**Cc:** Yoh Isogai <yoh.isogai@alleninstitute.org>, Carolyn Eng <carolyn.eng@alleninstitute.org>, Saskia de Vries <saskiad@alleninstitute.org>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi Doug,

In each experiment, each dataset will have a combination of those three types of acquisitions. Different experiments can have different combinations (the common ones include one with only genes + hyb and ones with all three). For each acquisition cycle, you get a folder of images that are technically separated from the others, but they are largely useless unless they are used together.

So if you want one dataset associated with one json, then what you are doing now seems more appropriate. If you can have multiple json files associated with each dataset, and have some way of describing their relationships, then having multiple jsons is fine.

Xiaoyin

**From:** Doug Ollerenshaw <doug.ollerenshaw@alleninstitute.org>  
**Sent:** Friday, January 16, 2026 5:01 PM  
**To:** Xiaoyin Chen <xiaoyin.chen@alleninstitute.org>; Polina Kosillo <polina.kosillo@alleninstitute.org>; Aixin Zhang <aixin.zhang@alleninstitute.org>  
**Cc:** Yoh Isogai <yoh.isogai@alleninstitute.org>; Carolyn Eng <carolyn.eng@alleninstitute.org>; Saskia de Vries <saskiad@alleninstitute.org>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi Xiaoyin, I have a rough draft of an acquisition.json that describes the BarSeq process as I understand it so far. I'll share it for sanity checking after it's a little bit more complete. But Saskia flagged on key question that I'm hoping you can help resolve before I go any further.

I currently have a single acquisition.json with three distinct data streams (gene sequencing, barcode sequencing, and hybridization) run sequentially. But Saskia is asking whether in practice these are actually three distinct acquisitions, each with their own data assets, in which case we'd actually want to have three separate acquisition.json files describing each.

What do you think makes more sense?

Doug

**From:** Xiaoyin Chen <xiaoyin.chen@alleninstitute.org>  
**Date:** Friday, December 12, 2025 at 4:54 PM  
**To:** Doug Ollerenshaw <doug.ollerenshaw@alleninstitute.org>; Polina Kosillo <polina.kosillo@alleninstitute.org>; Aixin Zhang <aixin.zhang@alleninstitute.org>  
**Cc:** Yoh Isogai <yoh.isogai@alleninstitute.org>; Carolyn Eng <carolyn.eng@alleninstitute.org>; Saskia de Vries <saskiad@alleninstitute.org>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi Doug,  
Here are the filters (not all of them are used in our current configuration):

Dichroic				
D1	FF421/491/567/659/776-Di01	DAPI/GFP/RFP/Cy5/Cy7		
D2	ZT405/514/635rpc	DAPI/YFP/Rs Cy5		
D3	FF421/491/572-Di01-25x36	DAPI/GFP/TxRed		
emission			Dichroic	laser
E1	FF01-441/511/593/684/817	DAPI/GFP/Red/Cy5/Cy7	D1	405
E2	FF01-565/24	YFP	D2	520
E3	FF01-585/11	RFP	D1	546
E4	FF01-676/29	FarRed	D1	638
E5	FF01-775/140	RS Cy5	D2	638
E6	FF01-391/477/549/639/741-25	YFP/Rs Cy5		
E7	69401m	DAPI/GFP/TxRed		
E8	ZET532/640m	Alexa532/Cy5(wide)		

There are no excitation and we don't currently use a camera splitter.

the micromanager configuration file and the microscope config file is attached.

For the images, in cycles geneseq01 and bcseq01, the channels are G/T/A/C/DAPI. In other geneseq or bcseq cycles, the channels are GTAC. In hyb cycles, the channels are GFP/G/TxRed/Cy5/DAPI/DIC.

Let me know if you need additional information.  
Xiaoyin

**From:** Doug Ollerenshaw <doug.ollerenshaw@alleninstitute.org>  
**Sent:** Friday, December 12, 2025 3:18 PM  
**To:** Xiaoyin Chen <xiaoyin.chen@alleninstitute.org>; Polina Kosillo <polina.kosillo@alleninstitute.org>; Aixin Zhang <aixin.zhang@alleninstitute.org>  
**Cc:** Yoh Isogai <yoh.isogai@alleninstitute.org>; Carolyn Eng <carolyn.eng@alleninstitute.org>; Saskia de Vries <saskiad@alleninstitute.org>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi all, here are notes I took when Dan, Polina, Xiaoyin and I just met at the rig:

 [2025.12.12 - barseq instrument meeting.docx](#)

Next steps, assuming I followed everything:

- Xiaoyin to share:

- Micromanager files
  - Filter files
  - Calibration files
- Dan to start generating a list of components that will go into the instrument from the above, then request further info as needed.

Is that accurate?

Doug

---

**From:** Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>  
**Date:** Thursday, December 11, 2025 at 10:29 PM  
**To:** Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>, Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>, Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>  
**Cc:** Yoh Isogai <[yoh.isogai@alleninstitute.org](mailto:yoh.isogai@alleninstitute.org)>, Carolyn Eng <[carolyn.eng@alleninstitute.org](mailto:carolyn.eng@alleninstitute.org)>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi Polina,

I'm happy to provide information on the imaging systems, but someone at AIND should generate the actual file since we are not familiar with your requirements. If you are doing this, perhaps we can meet up tomorrow in the lab and figure out the list of components you need to have listed, and we can send you the exact list later tomorrow.

Xiaoyin

---

**From:** Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>  
**Sent:** Thursday, December 11, 2025 1:58 PM  
**To:** Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>; Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>; Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>  
**Cc:** Yoh Isogai <[yoh.isogai@alleninstitute.org](mailto:yoh.isogai@alleninstitute.org)>; Carolyn Eng <[carolyn.eng@alleninstitute.org](mailto:carolyn.eng@alleninstitute.org)>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

[@Doug Ollerenshaw](#) would you be able to help with Aixin's questions - perhaps a touch base in person?

Also, here are some of the read the docs which explain what data schemas are looking for.

<https://aind-data-schema.readthedocs.io/en/latest/instrument.html>

<https://aind-data-schema.readthedocs.io/en/latest/acquisition.html>

*Sincerely,  
 Dr. Polina Kosillo  
 (she/her)  
 Scientist II  
 Molecular Anatomy Group  
 Allen Institute for Neural Dynamics*

---

**From:** Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>  
**Sent:** Thursday, December 11, 2025 1:54 PM  
**To:** Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>; Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>  
**Cc:** Yoh Isogai <[yoh.isogai@alleninstitute.org](mailto:yoh.isogai@alleninstitute.org)>; Carolyn Eng <[carolyn.eng@alleninstitute.org](mailto:carolyn.eng@alleninstitute.org)>; Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Would you like me to write a python code to generate json file for meta data or you need specific instrument like what laser we use, what scope we use? What is the format of these files? I don't think I can run that code to check the result. We can meet in person if you want.

---

**From:** Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>  
**Sent:** Thursday, December 11, 2025 1:46 PM  
**To:** Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>; Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>  
**Cc:** Yoh Isogai <[yoh.isogai@alleninstitute.org](mailto:yoh.isogai@alleninstitute.org)>; Carolyn Eng <[carolyn.eng@alleninstitute.org](mailto:carolyn.eng@alleninstitute.org)>; Doug Ollerenshaw <[doug.ollerenshaw@alleninstitute.org](mailto:doug.ollerenshaw@alleninstitute.org)>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi Aixin,

Thank you for checking in!

We think that the required information would be similar to our ExA-SPIM system which is also a custom built imaging rig.

Here are examples of code to create the instrument and acquisition files for exaspim (these python scripts used to create the json files):

- [instrument](#)
- [acquisition](#)

Basically we want a record of specs for instrument and imaging sessions that we could use to create metadata.

*Sincerely,  
Dr. Polina Kosillo  
(she/her)  
Scientist II  
Molecular Anatomy Group  
Allen Institute for Neural Dynamics*

---

**From:** Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>  
**Sent:** Thursday, December 11, 2025 1:41 PM  
**To:** Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>; Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>  
**Cc:** Yoh Isogai <[yoh.isogai@alleninstitute.org](mailto:yoh.isogai@alleninstitute.org)>; Carolyn Eng <[carolyn.eng@alleninstitute.org](mailto:carolyn.eng@alleninstitute.org)>  
**Subject:** Re: BARseq instrument and acquisition .json files for metadata

Hi Polina,  
What is instrument.json and **notes format for acquisition.json** ?

Aixin

---

**From:** Polina Kosillo <[polina.kosillo@alleninstitute.org](mailto:polina.kosillo@alleninstitute.org)>  
**Sent:** Thursday, December 11, 2025 6:30 AM  
**To:** Xiaoyin Chen <[xiaoyin.chen@alleninstitute.org](mailto:xiaoyin.chen@alleninstitute.org)>; Aixin Zhang <[aixin.zhang@alleninstitute.org](mailto:aixin.zhang@alleninstitute.org)>  
**Cc:** Yoh Isogai <[yoh.isogai@alleninstitute.org](mailto:yoh.isogai@alleninstitute.org)>; Carolyn Eng <[carolyn.eng@alleninstitute.org](mailto:carolyn.eng@alleninstitute.org)>  
**Subject:** BARseq instrument and acquisition .json files for metadata

Hi Xiaoyin,  
Hi Aixin,

Hope you both are doing well, and happy holidays!

Reaching out to you both to get help in procuring data for **instrument.json** and **notes format for acquisition.json** files for **LC-NE** and **thalamus BARseq** project systems.

This request is part of the AIND process for creating metadata necessary for migrating BARseq data generated for LC and thalamus projects to open bucket repositories on S3. Could you please let us know what would be the most effective way for getting those files and how we can assist with that?

*Sincerely,  
Dr. Polina Kosillo  
(she/her)  
Scientist II  
Molecular Anatomy Group  
Allen Institute for Neural Dynamics*