

Urgent issue.

From: **Patrick Lyden** | plyden@usc.edu

Thursday, Jul 1,
7:37 AM

To: **Jessica Lamb** | lambj@usc.edu, **Karisma A Nagarkatti** | nagarkat@usc.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

I would like to bring up an “early warning” issue. Once we train the DeepLabCut software to read corner tests, then I would like to proceed to the grid walk, which I think will be MUCH more difficult than corner. Looking at these early grid walk videos, it seems to me the grid itself is going to confuse the AI and obscure the steps. As a precautionary measure at this point, could I ask Karisma to send 3 grid walk videos to Ryan for review. Ryan, could you try to train deep lab cut to recognize steps (not foot faults – that comes later). If the software is able to train on the videos, great, we put this project back on the back burner. But I am worried we may need to change the video acquisition set up so as to optimize the AI review of steps, and if that is true, we need to do so now before too many grid walk videos are completed.

Does this make sense?

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To: **Patrick Lyden** | plyden@usc.edu

Wednesday, Jun 30, 5:56 PM

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Sent from [Mail](#) for Windows 10

From: **Jessica Lamb**

To: **PatrickLyden**

Wednesday, Jun 30, 12:15 PM

The urls for these are:

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plus each number below:

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From: **Obertas**

To: **KarismaANagarkatti**

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I have first videos for Stage 2 ready to be uploaded, just waiting for confirmation.

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From: **Karisma A Nagarkatti** | nagarkat@usc.edu

To: **Obertas**

Tuesday, Jun 29, 3:55 PM

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Hi Lidiya,

You can label the folder anything that will help you keep track of the Animal ID, type of video and timepoint. I received a response from LONI and it does seem that you will need to create a folder for each video for the software to recognize the video at time of upload. Please see her response below:

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If they are uploading multiple videos for the same animal, all of those videos could be put in a single folder. When they select that folder for upload, they would have the option to assign the different visit for each video.

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To: **Karisma A Nagarkatti** |
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To: **Obertas**

Monday, Jun 28, 6:20 PM

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Here is the link:

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How to do it?

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Friday, Jun 25, 4:21 PM

Hi Lidiya,

We sent your email to LONI. Just in case they ask , when you get a chance can you upload your video into this google link and label it UTH_issue_25Jun21?

https://drive.google.com/drive/folders/1vRySjjLT2zkV_mg7-Rli8KUkP3yPIEt6?usp=sharing

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From: **Obertas** |
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To: **Karisma A Nagarkatti** |
nagarkat@usc.edu

Friday, Jun 25, 4:09
PM

Here it is.

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To: **Obertas**

Friday, Jun 25, 6:07 PM

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Thanks,

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From: **Jessica Lamb** |
lambj@usc.edu

To: **Karisma A Nagarkatti** |
nagarkat@usc.edu

Friday, Jun 25, 3:50
PM

From: **Obertas** | Lidiya.Obertas@uth.tmc.edu To: **Jessica Lamb** | lambj@usc.edu Friday, Jun 25, 3:34 AM

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How to fix it?

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Please remember that a turn does not have to involve their entire body; It can be just their head turning if both whiskers were stimulated. We want the turn to be a true reflection of their response to whisker stimulus rather than escaping from their tail being stimulated.

Let me know if you have more questions 🤔

Thanks,
Jessica

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If a mouse is not active, when to stop recording? I remember it was 15 min and 6 turns, but I could not find it in the SOP.

Thanks,
Lidiya

From: **Karisma A Nagarkatti** |
nagarkat@usc.edu

To: **SPANMCG** |
SPANMCG@augusta.edu

Thursday, Jun 24, 1:00
PM

**** EXTERNAL EMAIL ****

Dear SPAN Investigators,

Please find attached the document each site should print and adhere to the right side of the Koehler Corner Boards before Stage 2 baseline Corner recordings.

Thanks,
Karisma

From: **Ryan Cabeen** | ryan.cabeen@loni.usc.edu

Monday, Jul 5, 10:43
PM

To: **Jessica Lamb** | lambj@usc.edu, **Karisma A Nagarkatti** | nagarkat@usc.edu, **Patrick Lyden** | plyden@usc.edu

Makes sense to me, I can give it a try. It would be helpful to have a video from each site too, so we can get a sense of the consistency.

By the way, here's the closest example I could find to this task:

star-protocols.cell.com/protocols/551

They were able to detect foot faults reliably in a ladder rung task using DLC and some post-processing steps. Probably too big a change to consider though...

Ryan P. Cabeen, PhD
Chan Zuckerberg Imaging Scientist
Assistant Professor of Research Neurology
Laboratory of Neuro Imaging
USC Stevens Neuroimaging and Informatics Institute
Keck School of Medicine of USC
University of Southern California
2025 Zonal Ave.
Los Angeles, CA 90033
Tel: (323) 44-BRAIN
Email: rcabeen@loni.usc.edu
Web: cabeen.io
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