RE: [External] SPAN: U Iowa TTC analysis Assignment requested 7/22/21

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

Friday, Jul 9, 9:46 AM

To: **Dhanesha, Nirav A** | nirav-dhanesha@uiowa.edu, **Chauhan, Anil** | anil-chauhan@uiowa.edu, **Leira, Enrique C** | enrique-leira@uiowa.edu

Cc: **Patrick Lyden** | plyden@usc.edu, **Jessica Lamb** | lambj@usc.edu, **cayata@mgh.harvard.edu** | cayata@mgh.harvard.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

> From:
>
> Hi Nirav,
>
> We are writing to kindly ask for your help in validating our image analysis pipeline by providing manual segmentations of brain and lesion extent from our TTC-stained tissue images. LONI has built an online tool for drawing outlines, and there are about 140 single coronal slices stained with TTC that we ask each site to help annotate. You can follow the link below and use the given username and password to login:
>
> <url> : www.spinhub.io/span-colab-24842
> <username>:
> span
> <password>:
> q1KdsT4nYt8dCFih
>
> There is an instructional video on the site that describes and demonstrates how to use the tool.Some slices may be poorly stained or have missing parts. Please use your best judgement in defining the brain and lesion outlines, like when you are measuring infarct volumes for your own projects. Whatever rules you follow when outlining the slices, please apply to all brains. If there is no lesion, you can skip that label, but every image should have at least a brain label. You may also label any other features that you find relevant using a custom label. Your work will be saved automatically to the server, so you won't have to worry about sending results back to us. **Please let the coordinating center know when you are finished with the task.** It should take 30 seconds to 1 minute per image, so the task should take less than two hours. If you leave the site, you can return and find your previous work, but you will need to skip ahead to the image where you left off.
>
> If you have any questions you can email Ryan Cabeen at rcabeen@loni.usc.edu. Your help with this is very much appreciated!
>
> Best wishes,
> the CC
>
> > From:

From: **Dhanesha, Nirav A** | nirav-dhanesha@uiowa.edu Friday, Jul 9, 10:16 AM

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

Cc: **Jessica Lamb** | lambj@usc.edu, **Chauhan, Anil** | anil-chauhan@uiowa.edu, **Leira, Enrique C** | enrique-leira@uiowa.edu

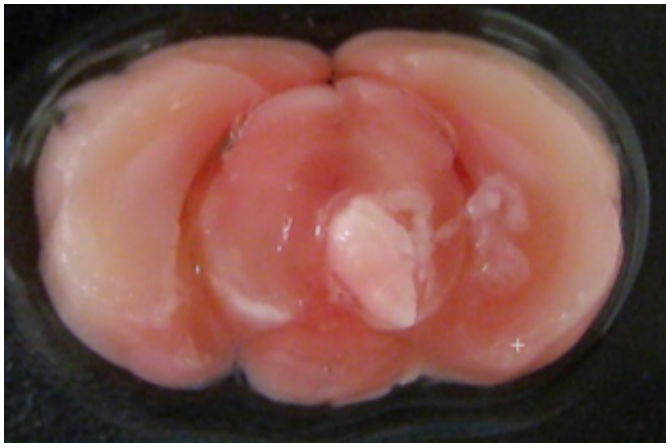
Thanks for the opportunity, happy to do this.

I have one question:

Are these slices are arranged for right side infarctions? In other words, should I label lesion on right or left or both side ?
For example, the below image (taken from the LONI) white part is visible on both the side.
In such case what is the best way to label infarction?

Kindly advise

Nirav



From: **Karisma A Nagarkatti** | nagarkat@usc.edu To: **Dhanesha** Friday, Jul 9, 11:46 AM

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> From:

From: **Ryan Cabeen** | ryan.cabeen@loni.usc.edu Friday, Jul 9, 6:05 PM

To: **Ayata, Cenk, M.D.** | cayata@mgh.harvard.edu
Cc: **Jessica Lamb** | lambj@usc.edu, **Karisma A Nagarkatti** | nagarkat@usc.edu, **Patrick Lyden** | plyden@usc.edu

Hi all,

Just wanted to check in about the question from Nirav below about doing TTC annotation. Perhaps we should decide together how to field these?

My inclination is to give raters as little guidance as possible, so as to avoid biasing the labeling process. We could tell them that the consecutive slices come from the same specimen, and perhaps also, that it is okay to not label lesion, since they might not realize that some sections have none.

What do you think?

Ryan P. Cabeen, PhD
Chan Zuckerberg Imaging Scientist
Assistant Professor of Research Neurology

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Los Angeles, CA 90033
Tel: (323) 44-BRAIN
Email: rcabeen@loni.usc.edu
Web: cabeen.io
www.ini.usc.edu

> From: **Nirav A** | nirav-dhanesha@uiowa.edu Friday, Jul 9, 10:16 AM
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> Nirav
>
> <image003.png>

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