

EPIBIOS Notes for Marianna

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Talk

Add epibios to title slide?

Slide numbers

How do you know that TBI causes epilepsy when it happens ten years after injury

Say why skull stripping is hard Inc tBI (skull is often not intact)

What's the N size of the training set for the classifier?

Did the atlas include brain stem regions?

Are patches summarizes after atlas registration?

Does PVS get smaller or bigger when there is asymmetry?

Computational Diffusion MRI Toolbox for a Rodent Model of Post traumatic Epilepsy

Paper

Abstract:

- "allowed also" → "also allowed"
- "discrimination of the two" → "discrimination between the two"
- "RF classifier" → "random forest classifier"
- mention that the tests were on the human cohort, perhaps

Intro:

- "the third cause" → "the third most common cause" maybe?
- "In [5], we" → "In our previous work [5], we" (maybe just a matter of taste)

Methods

- Any reason for using linear registration over deformable? I would guess that it is because the TBI cases are hard to accurately register, but it might be good to make a note if so
- I'm not quite clear on how exactly the networks were constructed, in particular, I had trouble understanding these part: "For each scale, we built a multiplex network consisting of different layers α in which the same number of nodes can be connected in different methods depending on the subject's specific brain network that characterizes a certain layer." and "... w_{ij} is the correlation between nodes $i, j = 1, \dots, N$ with M subject number...". So maybe it would help to add a bit more explanation, especially about what measurement was used in the correlation, e.g. T1 intensity or some morphometric property?
- I wonder about which brain areas were excluded in the feature selection. That is, if two areas are highly correlated, it would make sense to include only one in the model (as was done), but it would be it may still be valuable for readers to know about the other

Results

- Maybe also include an image showing a representative TBI case and alongside the template? I wonder about how much spatial agree should be expected

Discussion

- "registration noise" → "misregistration"
- "cingualte gyrus" → "cingulate gyrus"