

What we are trying to do here

Jessica Turner & Tom Nichols

Data sharing is happening

- Neuroimage issue, “Sharing the Wealth: Brain Imaging Repositories, 2015”
 - 25 papers currently in press



Pain and Interoception Imaging Network (PAIN)

NeuroVault

NUNDA

Northwestern University Neuroimaging Data Archive

NiDS
Neuroinformatics Database



INS



Cimbi
THE LUNDBECK FOUNDATION

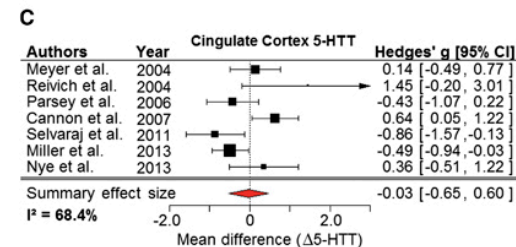
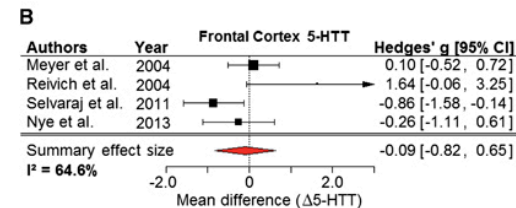
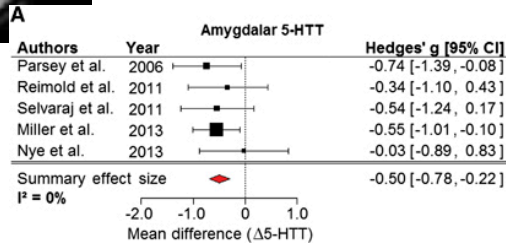
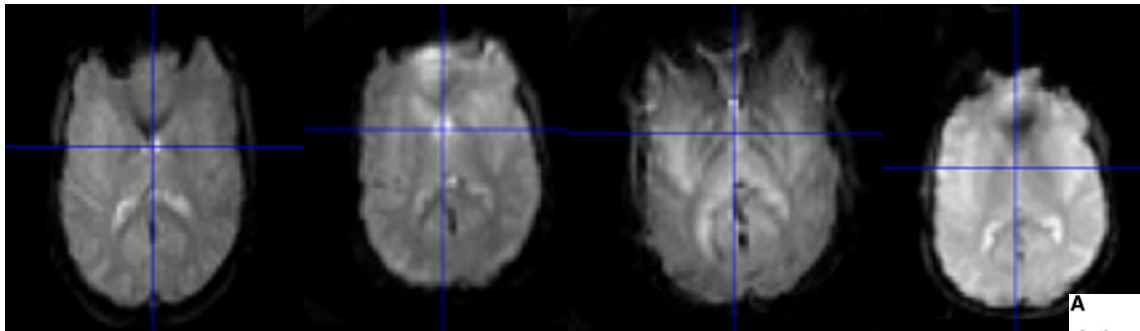


Harvard Aging Brain Study

Athinoula A. Martinos Center for Biomedical Imaging



What is the problem?



Do differences across scanners and images in T1, T2, fMRI, ASL, DTI, etc. limit our sensitivity to true effects?

If so, how do we reduce the variability For the analyses we want to do?

Goal today

- Hear from people who have worked with legacy data
- Consider what needs to be done and approaches to do it
- Aim for a white paper with recommendations for using these datasets in different ways

Key question

- What are the limits to combining data across protocols (within a single modality)?
 - How bad is it?
 - How is that affected by the analysis goals?
- What are possible approaches to minimizing those issues?
 - Pros and cons
- How do we minimize this going forward?
 - Including education for data collectors and big data analysts

Panel Discussion

- Someone hands you an aggregated dataset of samples of different sizes and modalities.
What do you do?
- Is there a minimum set of characteristics we can agree on?

Roundtable Discussion

- What do we share?
- Where do we share it?
- How do we continue to make available new analytic techniques for these data?