INCF Workshop on Neuroimaging Data Access and Sharing

25 June 2011
Centre des Congrès, Room 204B
Quebec City, Canada

All attendees must RSVP to datasharing@incf.org by 17 June 2011.

Neuroimaging is increasingly relying on tools to store, manage, and share data and metadata. A number of open databasing tools have been developed and there are several new initiatives to promote neuroimaging datasharing. Simple and global access to neuroimaging data and metadata will profoundly impact the field.

This workshop will allow members of the neuroimaging community to meet developers of neuroimaging databasing tools. We propose to review the motivation for sharing neuroimaging (raw or processed) data, how this can be done today, and discuss what would the community need in the future to help exchange and share data, and what would be the impact on the science performed in the field.

During the meeting, we will review all the necessary technical, community and legal or ethical aspects of datasharing, including brief reviews of some current databasing or processing tools, discussions on provenance and ontologies, etc. We hope that the meeting will help clarify where the efforts should go to make neuroimaging datasharing easier and change or improve our daily research.

This workshop will gather renowned speakers on neuroimaging databasing systems and their relation to raw or processed data with specific interest in making data sharing easier. We plan to leave enough time to allow discussions on the various aspects of data sharing (technical, legal, etc). The end of the day will cover new ways of using the web resources and potentially thinking of our research or clinical activity.

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Preliminary Agenda

9:30 Introduction (Jean-Baptiste Poline)

9:40 Some words about INCF (Sean Hill)

9:50 Why share data? (Russell Poldrack)

10:30 Review of some neuroimaging databasing systems
- XNAT (Daniel Marcus)
- IDA and LONI (Jack Van Horn)
- HID and fBIRN; XNAT-HID mediation (David Keator)

11:15 Break

11:30 Roundtable: I have data: Where do I put it? How do I choose among database options?

12:00 Legislation, licenses and versioning: When to release? (How does the semantic web have anything to do with data sharing?) (Alan Ruttenberg)

12:20 The Neuroscience Information Framework (Maryann Martone)

13:00 Lunch

14:00 Databasing and Data processing: Provenance / How to interact with input-output / How do I share the processing results?
- SPM (Guillaume Flandin)
- FSL (TBA)
- Freesurfer/BIRN (Karl Helmer)
- LONI Pipeline / Visual approaches to data mining (Jack Van Horn)
- NIPype (Satra Ghosh)

14:45 Roundtable on Provenance: I've just run an fMRI analysis: how do I share results in a biologically meaningful context?

15:00 Neuroimaging and Ontologies (TBA)

15:30 Break

15:45   Review of ethical and IRB issues: Pointing to solutions (Al Grudzinskas)

16:00   The Cloud: Scaling up to the future (TBA)

16:30   Roundtable on Datasharing: What's the incentive? What's stopping us?

17:00   Social and Open Discussion