XVI PMT meeting on the EADC-ADNI Harmonization of Protocols for Hippocampal Segmentation

Wednesday, June 5, 2013

Participants:

Giovanni B. Frisoni (GBF)	– IRCCS S. Giovanni di Dio - Fatebenefratelli, BS, Italy
Marina Boccardi (MB)	– IRCCS S. Giovanni di Dio - Fatebenefratelli, BS, Italy
Martina Bocchetta (MBocch)	– IRCCS S. Giovanni di Dio - Fatebenefratelli, BS, Italy
Simon Duchesne (SD)	– Laval University, Québec City, Canada
Clifford R. Jack (CRJ)	– Mayo Clinic, Rochester, MN, USA
Louis Collins (LC)	– McGill University, Québec City, Canada

MB updated about the Phase 2 of the Validation of the Harmonized Protocol.

The quality of postmortem scans from datasets with pathology characterization were considered for Validating the HP versus pathology. It was decided that we will proceed with datasets with ante-mortem 3D scans. ADNI subjects with pathology will also be considered. The total number should be about 50 scans from Mayo Clinic and about 20 from ADNI. Mayo (and ADNI) has Braak characterization. The possibility to perform neuronal count, possibly for the different subfields in order to make the project compatible with subsequent possible projects on subfields, will be ascertained. MRIs will be segmented by Greg Preboske from Mayo.

SD will complete his paper on the qualification platform using the data from the 14 tracers who completed the three rounds of training so far, even if not all of the tracers have completed the training. This will be used to show improvement through the training rounds. The data about the qualification, instead, will be presented in a different paper.

Updates about the Expansion project: all labels are segmented and certified, after the two-levels quality check and two rounds of corrections.

ICCs across the 5 tracers will be computed using the qualification images.

Contact with the group aiming to harmonize hippocampal subfields (asking to work with the HP group to produce a compatible protocol, and to import methodology), and with Henri Duvernoy is reported.

Updates about meetings and papers are provided.