

## RESOURCE SHARING PLAN – INFORMATICS AND ANALYTICS CORE

Progress in scientific understanding is best achieved by the free and open exchange of knowledge, data, and ideas. Progress in these efforts is paralleled by growing interest throughout the scientific community in having timely access to the information and resources that may speed the understanding of disease etiology, refinement of diagnostic systems, and development of novel therapeutic agents and preventive interventions. We have been pioneers in developing open sharing models that provide rapid and open sharing of data and other resources. The Alzheimer's Disease Neuroimaging Initiative (ADNI - <http://adni.loni.usc.edu/>) is an example of valuable and open resource developed by our group. Our Resource Sharing Plan is multifaceted in order to best achieve the spirit of sharing.

### ***Sharing Informatics Best Practices***

Validation and sharing of translational and informatics research protocols, practices and findings is challenging because of their diversity, heterogeneity of the data and the provenance of the data and tools employed in these analyses. The proposed infrastructure will enable the construction, testing, validation and dissemination of advanced and robust informatics study protocols as complete Pipeline workflows, the provenance. These will be distributed openly and unimpeded by any restriction. The proposed database will be available for sharing as a resource or downloadable as a complete and functional local instantiation.

### ***Source Code Sharing Plan***

Any source code created as part of the SRC will be GPL open-source licensed, which will enable community review, changes, modifications, and support. Source code, configurations, builds, binary executables and documentation (user guides and Java doc) will be openly, freely and anonymously distributed using SVN/Git source code version control system.

### ***Data Sharing***

All data sharing will follow the policies mandated by the USC IRB, the Health Insurance Portability and Accountability Act (HIPAA), and USC/Keck Medical Center regulations and those by the collaborating institutions. While the present proposal only uses data collected at the other institutions and already assessed for compliance with regulatory requirements we still evaluate all for any PHI prior to databasing and making it available to the outside world. With data, we subscribe to the same open sharing philosophy as with tools, while adhering to the required regulatory and compliance needs of the data.