

University of Massachusetts Medical School

eScholarship@UMMS

---

UMass Center for Clinical and Translational  
Science Research Retreat

2012 UMass Center for Clinical and  
Translational Science Research Retreat

---

May 22nd, 4:30 PM - 6:00 PM

## CANDI Store: An Infrastructure for Neuroimage Storage and Processing

Christian Haselgrove

*University of Massachusetts Medical School*

*Et al.*

Let us know how access to this document benefits you.

Follow this and additional works at: [https://escholarship.umassmed.edu/cts\\_retreat](https://escholarship.umassmed.edu/cts_retreat)



Part of the [Bioinformatics Commons](#), [Neuroscience and Neurobiology Commons](#), [Pediatrics Commons](#), and the [Psychiatry Commons](#)

---

Haselgrove C, Hodge SM, Rane P, Frazier JA, Kennedy DN. (2012). CANDI Store: An Infrastructure for Neuroimage Storage and Processing. UMass Center for Clinical and Translational Science Research Retreat. Retrieved from [https://escholarship.umassmed.edu/cts\\_retreat/2012/posters/37](https://escholarship.umassmed.edu/cts_retreat/2012/posters/37)

Creative Commons License



This work is licensed under a [Creative Commons Attribution-Noncommercial-Share Alike 3.0 License](#).

This material is brought to you by eScholarship@UMMS. It has been accepted for inclusion in UMass Center for Clinical and Translational Science Research Retreat by an authorized administrator of eScholarship@UMMS. For more information, please contact [Lisa.Palmer@umassmed.edu](mailto:Lisa.Palmer@umassmed.edu).

## **CANDI STORE: AN INFRASTRUCTURE FOR NEUROIMAGE STORAGE AND PROCESSING**

Christian Haselgrove, Steven Hodge, Pallavi Rane, Jean A. Frazier, David N. Kennedy

Division of Neuroinformatics, Department of Psychiatry, University of Massachusetts Medical School, Worcester, MA

**Contact Information:** [David.Kennedy@umassmed.edu](mailto:David.Kennedy@umassmed.edu), (508) 856-8228

### **Abstract:**

In order to support the local data management need for neuroimaging researchers at UMass Medical School within the Child and Adolescent NeuroDevelopment Initiative (CANDI) and beyond, we have implemented a XNAT ([xnat.org](http://xnat.org)) instance called CANDIStore. XNAT is an open source imaging informatics platform, developed by the Neuroinformatics Research Group at Washington University. It facilitates common management, productivity, and quality assurance tasks for imaging and associated data. Located securely within the medical school firewall, CANDIStore offers a comprehensive set of image management tools. Users can be authenticated based against their UMass credentials, create private projects, manage research team access, DICOM 'push' directly to CANDIStore from the MRI imaging console, manage demographic and additional subject variables, and perform automated analysis and processing pipelines. CANDIStore is an essential adjunct to the daily operations of neuroimaging research.