QIDW STATUS REPORT

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Mayo Clinic
Current Status

- QIDW is functioning as an image archive and warehouse for QIBA teams.

- Stats:
  - 307 Users
  - 15 Communities
  - 127,687 Items

- Usage Query:
  - Who has uploaded data?
  - Who has downloaded data?
  - Who has never logged in?
2015 Activities

- Addressed some issues with reliability
- Began study of usability / website design
Priorities

• Visibility.
  • It’s hard to ‘find’ from QIDW webpage—there’s no link saying ‘Go to QIDW’ on the QIDW web page.
Priorities

- UI does not promote use by broader community
Options

- Rework current UI to address these issues
- Looked at other similar web sites: NITRC
One Model: NITRC

Find neuroimaging tools here:

- modeling OR simulation
- morphology AND animation
- segmentation NOT Linux
- region of interest

Featured tool/resource:
Automatic Registration Toolbox

ART 'acmedec' program for automatic detection of the AC and PC landmarks and the mid-sagittal plane on 3D structural MRI scans. ART 'brainwash' program for automatic multi-atlas skull-stripping of 3D structural MRI scans. ART '3dwarper' program of non-

Latest News

- [The Neuro Bureau, Jan 14] ExHibition at Kopfzentrum (Leipzig)
- Crossing Fibers: A Retrospectrscopic View The 2016 art exhibit brings together works representing the synergy between neuroscience and art. In Leipzig, the exhibition will be held at the Kopfzentrum, from 07th January to beginning March 2016. For more...

- [xView, a viewing tool for SPM, Jan 10] xView 8.14 released
- xView 8.14 is released with the following new features: + Allow to change the minimum value of the color bar range. This will enable you to do: Create a symmetric color bar from negative to positive. For example, from -3 to 8 - Use cold color...

- [NITRC Community, Dec 29] NITRC-CE v41 and CE v41-HCP Released
- We are pleased to announce the release of NITRC-CE v41 and v41-HCP (customized for Human Connectome Project use). This version can be accessed through AWS Marketplace or VM Depot, and you can always build your own using the install script in the NITRC...
**Narrow your results:**

- **Domain**
  - MR (607)
  - EEG/MEG/ECG (110)
  - Computational Neuroscience...
  - see all >>

- **Functionality**
  - Visualization (104)
  - Modeling (73)
  - Statistical Operation (71)
  - Segmentation (54)
  - Spatial Transformation (58)
  - see all >>

- **Data Resource**
  - Data (47)
  - Database (30)
  - Atlas Data (21)
  - Test Data (7)

- **Diagnosis**
  - Schizophrenia (9)
  - Parkinson Disease (8)
  - Dementia (8)
  - see all >>

- **License**
- **Development Status**
- **Programming Language**
- **Operating System**
- **Supported Data Format**

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**1000 Functional Connectomes Project**

study about schizophrenia

(Show all specifications)

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**ATTENTION:** The 1000 Functional Connectomes Project has a new home page at NITRC. Please visit us at: [http://fcon_1000.projects.nitrc.org](http://fcon_1000.projects.nitrc.org) This is the parent project for ABIDE, ADHD-200 (ADHD200), INDI, and other projects.

**Category:** Data (Show all specifications)

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**[123I] FP-CIT SPECT brain template in MNI space**

The FP-CIT SPECT brain template has been created using a fully automatic procedure involving posterization of the source image to three levels: background, brain, and striatum. We performed a spatial affine registration of these 40 posterized source images to a posterized reference image in the MNI space. The intensity values of the transformed images is normalized linearly, assuming that the histogram of the intensity values follows an alpha-stable distribution. Lastly, we built the [123I]FP-CIT SPECT template by the mean of the transformed and normalized images.


[http://dx.doi.org/10.1016/j.neuroimage.2...](http://dx.doi.org/10.1016/j.neuroimage.2...)

(Show all specifications)

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**18F-DOPA PET and 123I-FP-CIT (lofupane - DaTSCAN) SPECT templates for SPM normalisation.**

The 18F-DOPA and 123I-FP-CIT (lofupane - DaTSCAN) templates are intended for use as templates for SPM automated normalisation. Created for SPM8 but SPM12 compatible. Available in NIfTI file format. The updated Templates are symmetrical and adjusted to MNI-space templates from 12 (18F-DOPA) and 30 controls without evidence of nigrostriatal degeneration (123I-FP-CIT). Authors: I. Huertas, J.A. Lojo, F.J.
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## Top Page Views | Top Forum Post Counts

A list of the tools and resources that have had files downloaded directly through NITRC. They are ranked in order starting with the tool/resource with the most downloads.

Click on the tool/resource name to get to the Summary page for that tool/resource.

### Top Categories

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No NITRC Now

• Price was higher than entire budget for QIDW by large margin
• But it is a good example for some components of QIDW
QIDW and Human Data

• There is a request to contribute 3 large data sets to QIDW:
  • 2000 Mammograms with annotated lesions, BIRADS score and pathology
  • 350 MRI/PET H&N cancer with annotated lesions & histopathology
  • 200 CT Abdomen hepatoma with annotated lesions
• All were collected and used for MICCAI Grand Challenge (likely clean)
Process for Publicizing Data

• Do we accept data that is private or restricted?
• How do we make public aware of data sets?
• Need better descriptions of data sets and more friendly interface to view and download
Future Function

I Have a File…
- profile compliance example
- site compliance
- vendor compliance

Select Analytic

Upload File

QIDW Runs Analytic

Result Displayed/Recorded

Pass!
2016 Activities

- Make QIDW more integrated with QIBA website
- Make QIDW more navigable
- Add human image data
- Plan and perhaps implement Data Processing capabilities
  - Need 2 use cases (assure generalizable design)
  - $$ for web development (maybe $15K?)