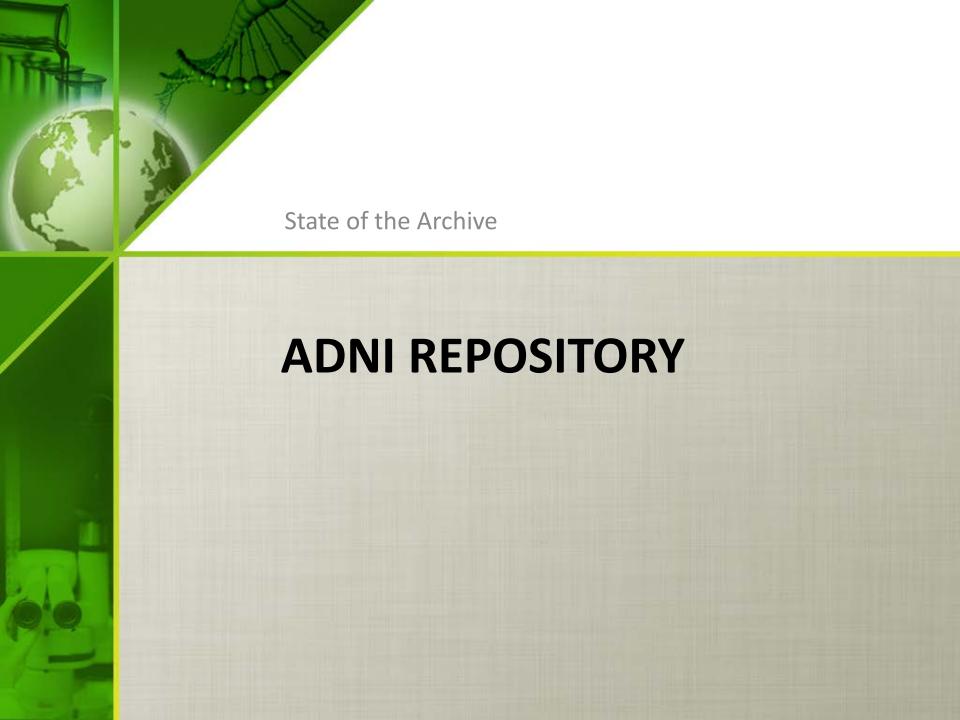
Informatics Core

Arthur Toga April 2016



Over 209,000 Images Archived



Dataset Summary by Category

Clinical & Analysis

- Assessments 21
- Biospecimen 69
- Enrollment 11
- Imaging 93
- Medical History 13
- Study Info 14
- Subject Characteristics 3
- Test Data (Challenges, etc)- 3

Archived

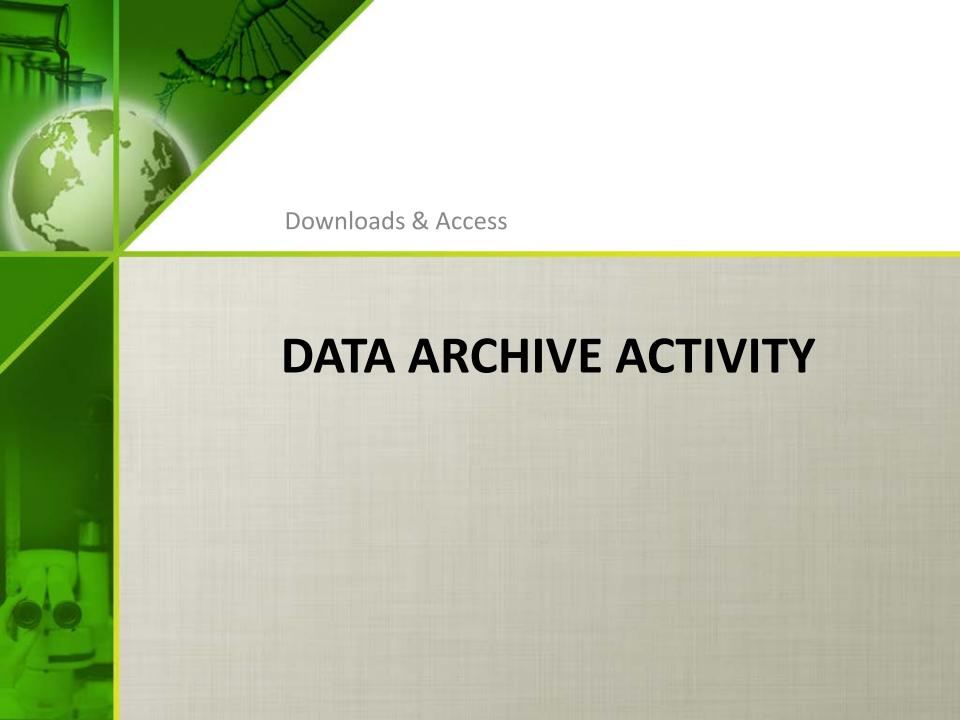
(older dated versions) -122

Genetic

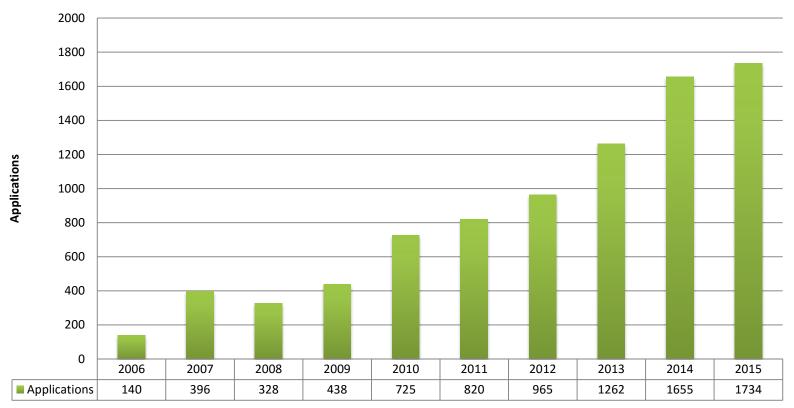
- ADNI WGS + Omni2.5M 54
- ADNI1 GWAS 15
- ADNIGO/2 GWAS 18
- ADNI Gene Expression 2

New Datasets Mid-2015 to present

- Araclon Biotech S.L. AB test40 and 42 Plasma Analysis
 - Levels of Aβ40 and Aβ42 free in plasma
- UC Berkeley AV1451 Analysis
 - AV1451 SUVR
- AD Metabolomics Consortium Bile Acids
 - Levels of selected bile acids in human serum
- AD Metabolomics Consortium Barcelona Purines
 - Quantify metabolites belonging to purine metabolism in human plasma
- ADMC Duke Biocrates P180 Kit Flow injection analysis
 - Measure 186 metabolites

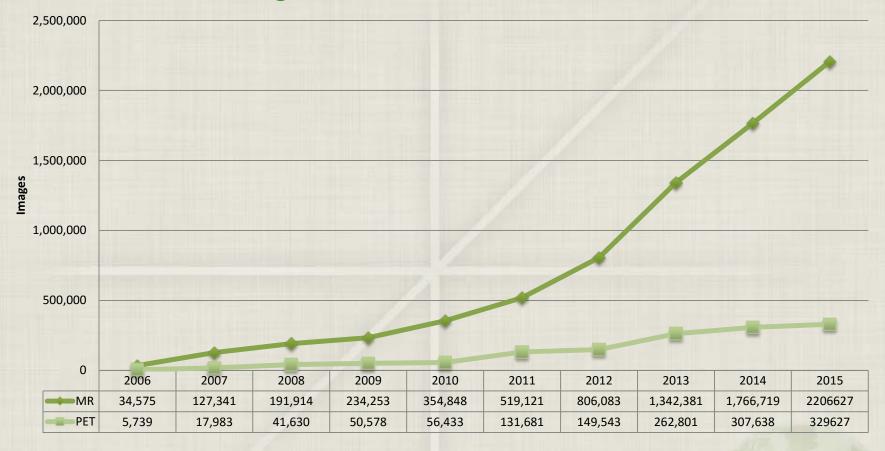


Data Use Applications Received



Applications received to date: 8,463

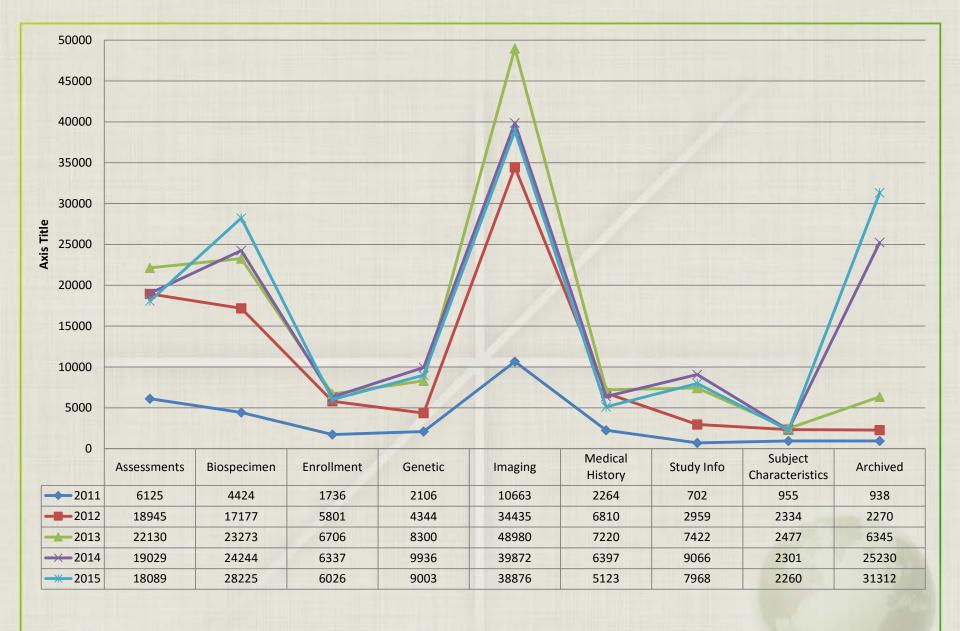
Images Downloaded 2008 - 2015



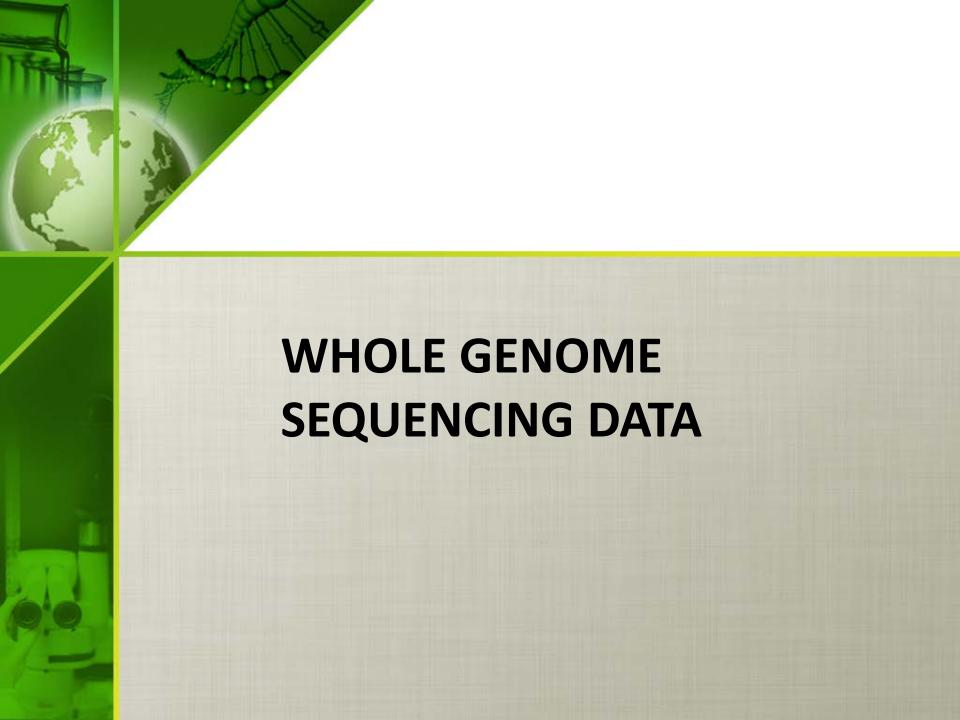
MRI: 7,583,862

PET: 1,353,653

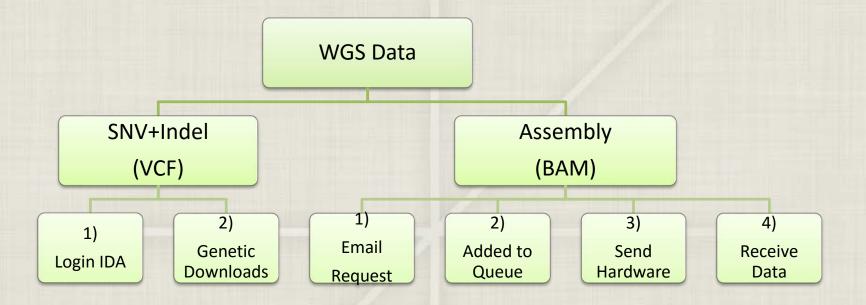
Total: 8,937,515



Clinical Data Downloaded 2011 - 2015



Processes for obtaining WGS data



SNV+Indel data: downloaded by 484 investigators

WGS requests filled: 14 (100%)

WGS BAM File Requests

Requests received: 32

Requests completed: 19

Copies in progress: 0

Requests withdrawn/non responsive: 13

Preview of coming attractions



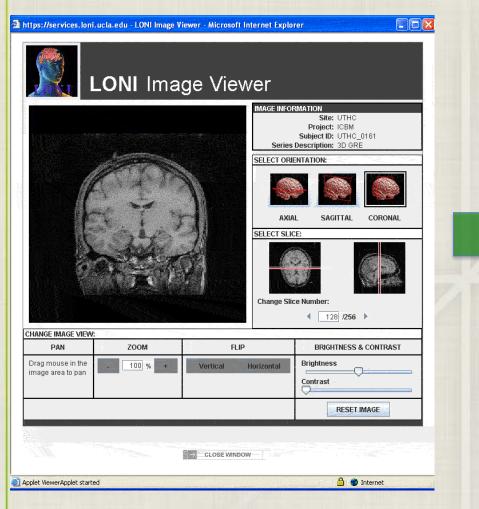
Web Technology Continually changes

- Java plug-in support being phased out
- New IDA widgets in development for:
 - Uploading Images
 - Downloading Images
 - Viewing Images



www.nydailynews.com

The New IDA Viewer Design





- Going mobile will be responsive for different screen sizes
- Designs in progress for upload, download, search interfaces

Share your opinion:

LONI IDA Image Viewer: User Survey [v01]

Thank you for your time! This survey will help IDA build a better Image Viewer.

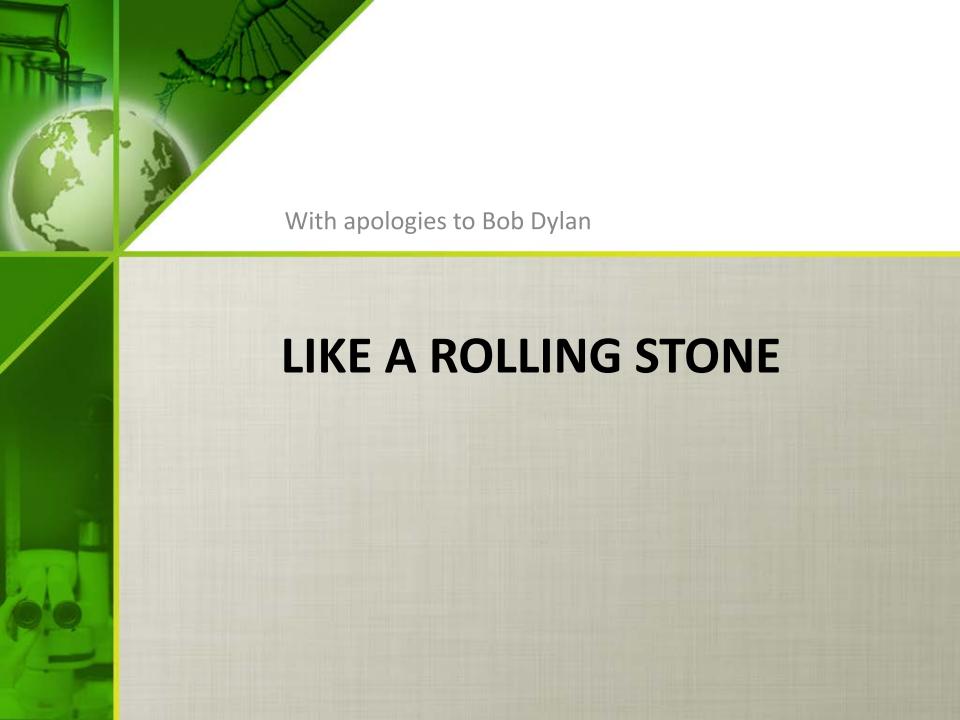
The survey has 9 questions on 2 pages and will take 1 - 3 minutes to complete.

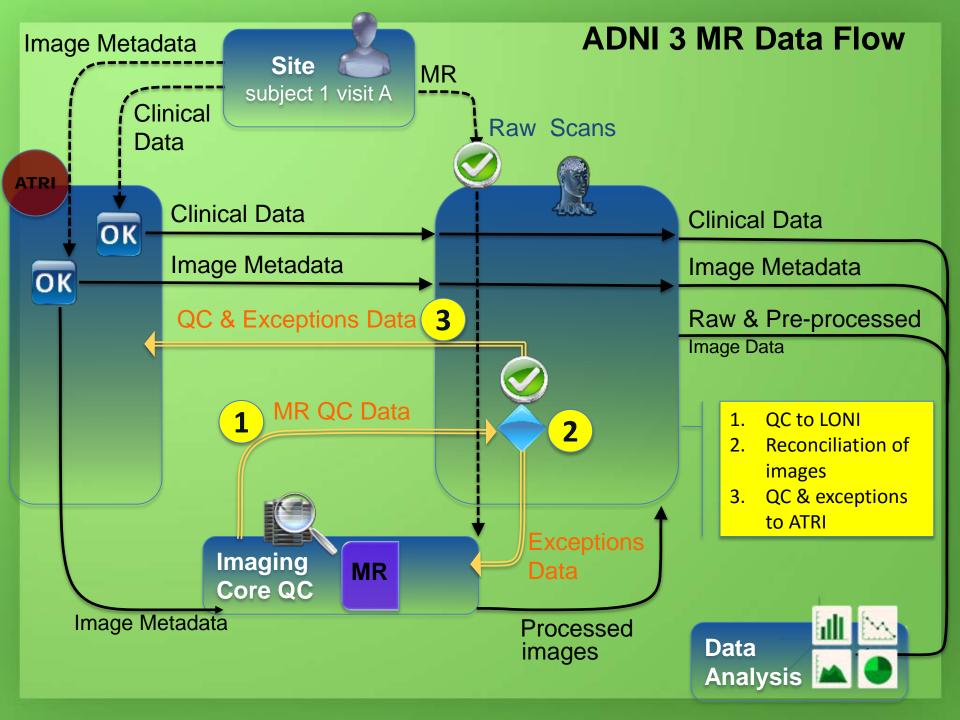
Required questions are marked with an (*)

hat apply) Scientific resea	cher			
PI				
Program admi	istrator or manager			
Neurologist or	neurological surgeon			
Radiologist				
University fact	ty			
Student				
Other (please s	ecify)			
If your fu	nction or role with	in vour pro	gram or	
_		-	_	
ganizatio	n is unique and di	ferent from	n most of your	

you want to do with an image viewer application?

https://www.surveymonkey.com/r/KJDTMJS





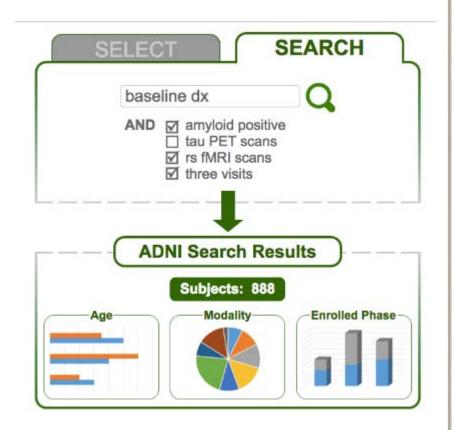


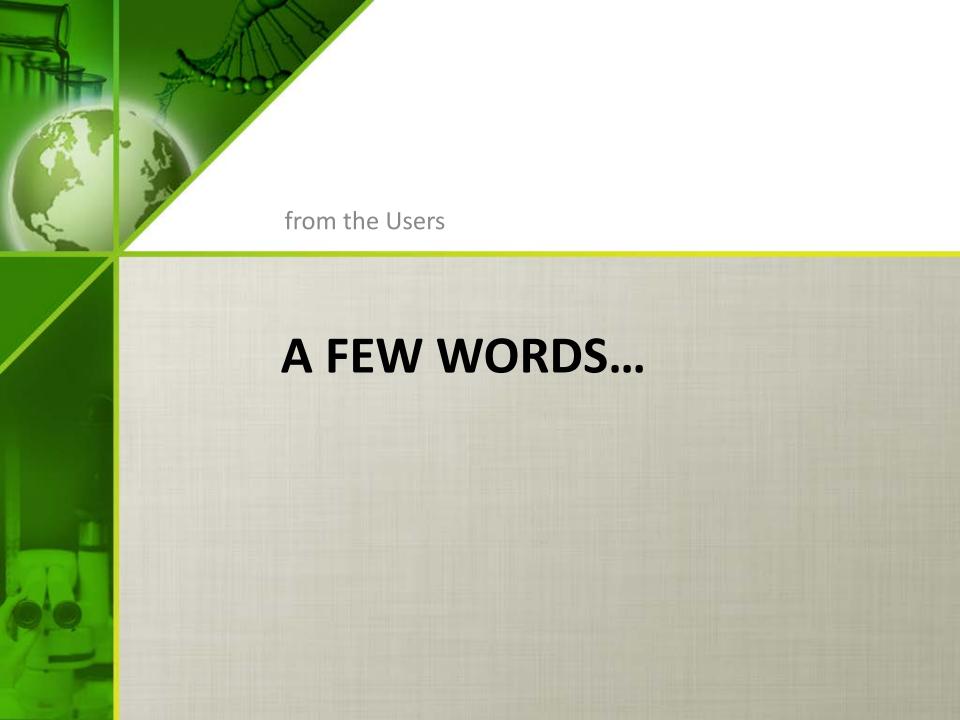
Forming IWWG

- Informatics & Website Working Group
 - Quarterly meeting via WebEx/TC
 - Representative from each core
- Goals
 - Share ideas for improving data search, download and other functionality
 - Guide website developments

Expert (and other) Input on

- Preferred ways to search the data
 - i.e. keyword search over what you want rather than how data was collected
- Preference for results
 - i.e. summarize first, then refine, add columns...





Some feedback

- From an investigator in Germany:
 - "Thanks a lot for your very hard work maintaining the database, the new look sure is fancy!"

- From an interested party:
 - "During my brain MRI process yesterday, I felt heat around my head in a cold room. I am scared that some of my brain cells damaged."

Some unique research plans

- From an investigator in Vancouver, WA:
 - "Studying all the penis connectors"

- From an investigator in Bosnia:
 - "Ongoing project of housing a human brain into unique robotic body."

Some help requests

- From an investigator in the USA:
 - "Thanks a million again! Very impressed already how promptly and nicely you have responded."

- From a prospective user in Russia:
 - "My name is [withheld]. I'm from Russia. And I want to get out of here. Help! I need \$10 000"