



CCNA LORIS - Data Dissemination

Oct. 21st Workshop

Zia Mohades (CCNA LORIS Data Manager)

Jessica Callegaro (CCNA LORIS Developer)

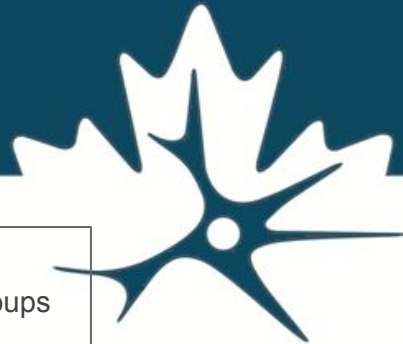
CCNA
Canadian Consortium
on Neurodegeneration
in Aging



CCNV
Consortium canadien en
neurodégénérescence
associée au vieillissement



INTRO – LORIS Overview



Goal:

- strengthen research groups to better manage the causes, detection, and treatment of AD.
- Help Advance findings and understanding of AD

National Neuroinformatics Framework for Canadian Consortium on Neurodegeneration in Aging (CCNA)

Zia Mohaddes^{1,2†}, Samir Das^{1,2†}, Rida Abou-Haidar^{1,2}, Mouna Safi-Harab^{1,2}, David Blader^{1,2}, Jessica Callegaro^{1,2}, Charlie Henri-Bellemare^{1,2}, Jingla-Fri Tunteng^{1,2}, Leigh Evans^{1,2}, Tara Campbell^{1,2}, Derek Lo^{1,2}, Pierre-Emmanuel Morin³, Victor Whitehead⁴, Howard Chertkow^{4,5} and Alan C. Evans^{1,2}

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OPEN ACCESS

Longitudinal

Online

Research &

Imaging

System

“...is a **modular** and **extensible web-based** data management system that integrates all aspects of a multi-center study:

From **heterogeneous** data acquisition (imaging, clinical, behavior, genetics) to storage, processing and ultimately dissemination.”

INTRO - LORIS Overview



LORIS: Heterogeneous Data Management



Data Acquisition

Data Quality Control



data management system that integrates all aspects of a multi-center study

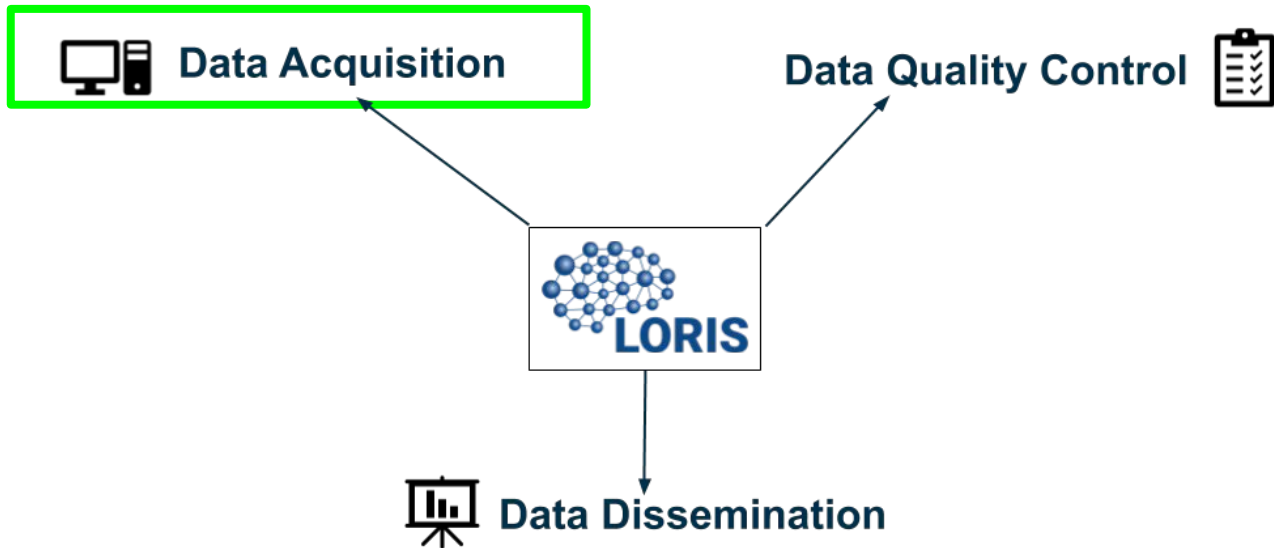


Data Dissemination

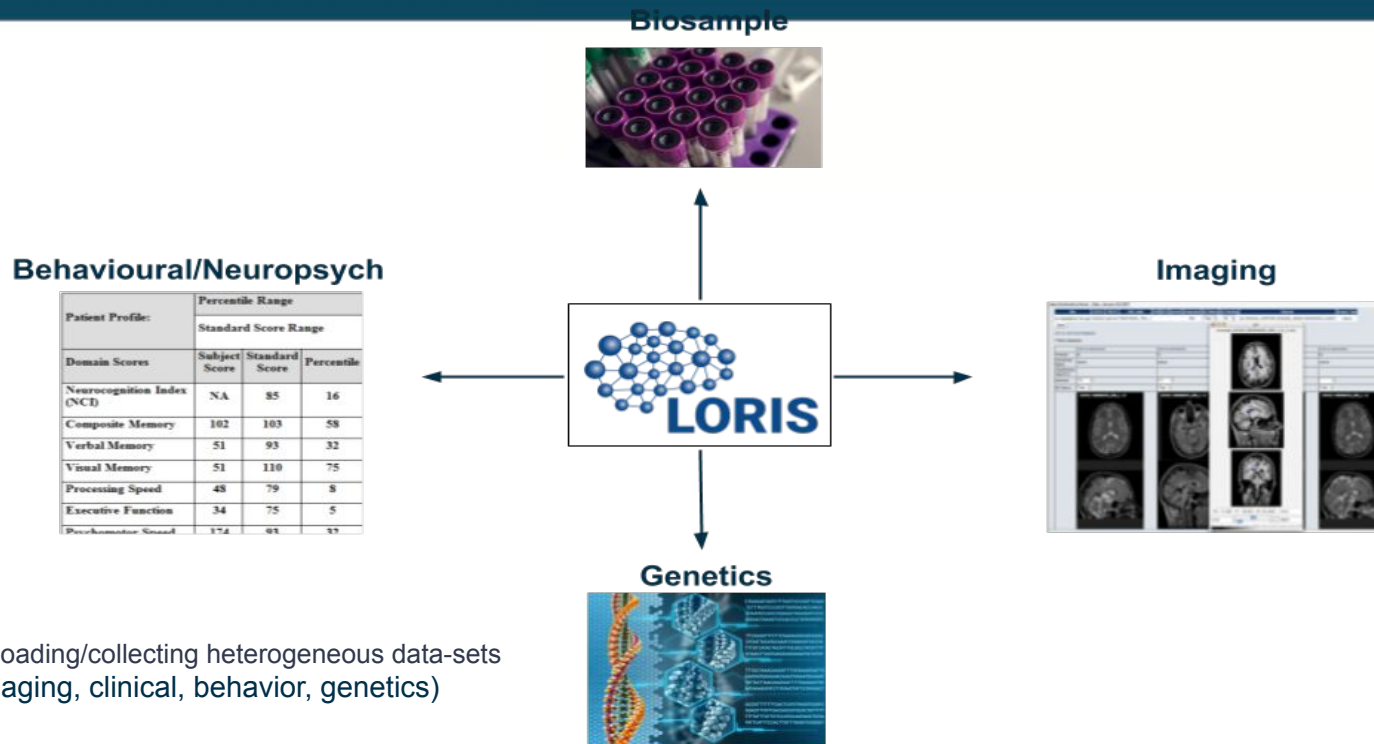
INTRO - Data Acquisition



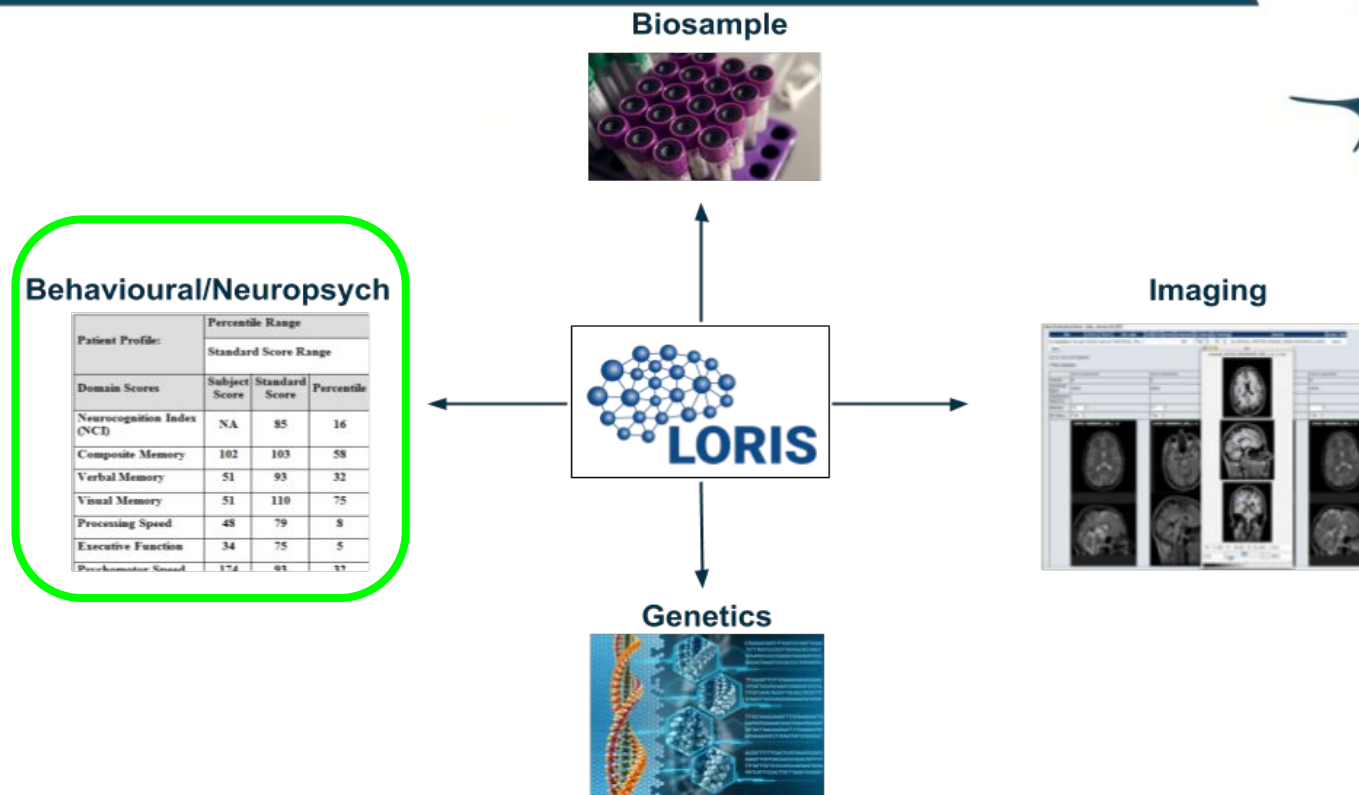
LORIS: Heterogeneous Data Management



INTRO - Data Acquisition



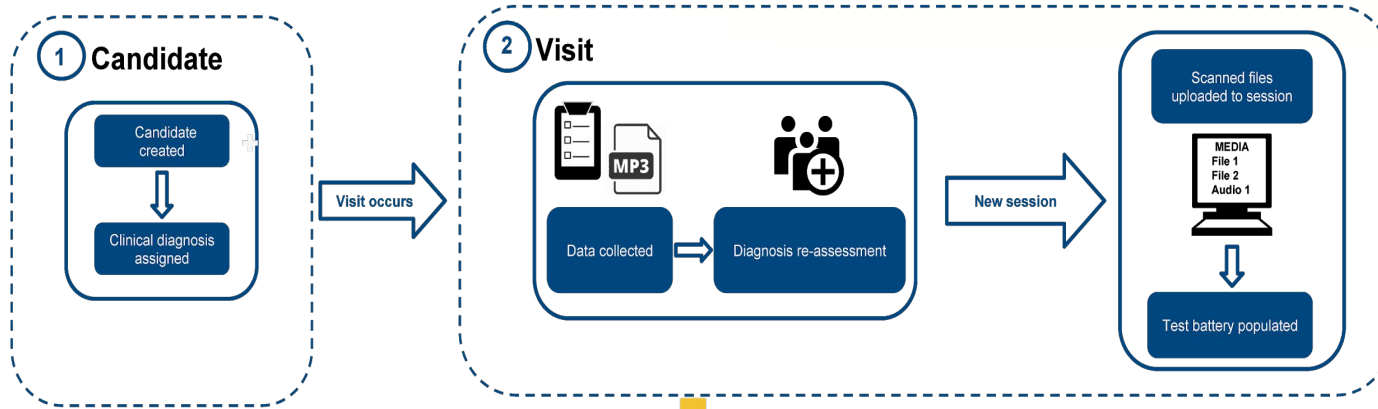
INTRO - Data Acquisition - BVL



INTRO - Data Acquisition - BVL



LORIS Data Entry Flow

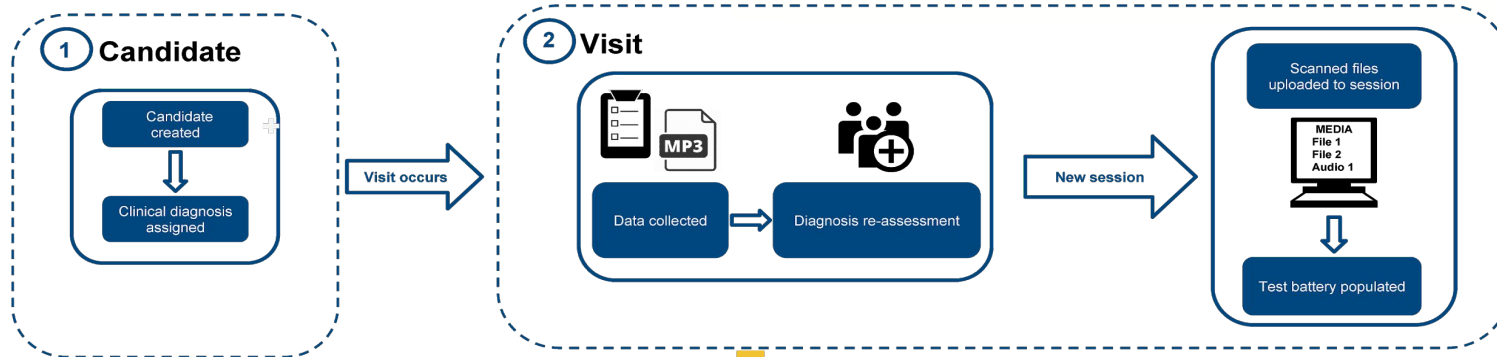


- Registration of a candidate
- Creation of a visit
- Uploading the Scanned copy of the assessment/Instrument

INTRO - Data Acquisition - Stats

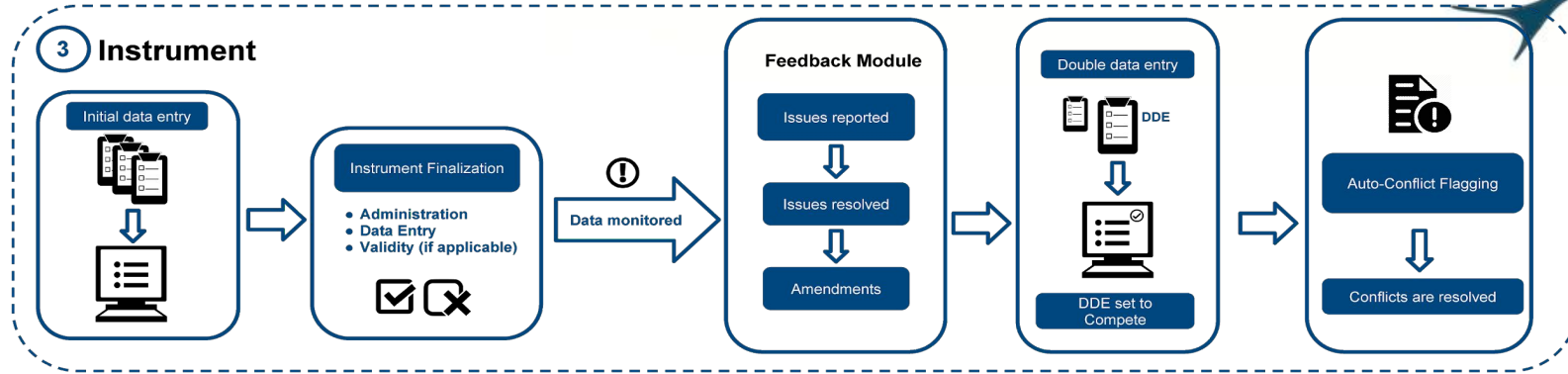


LORIS Data Entry Flow



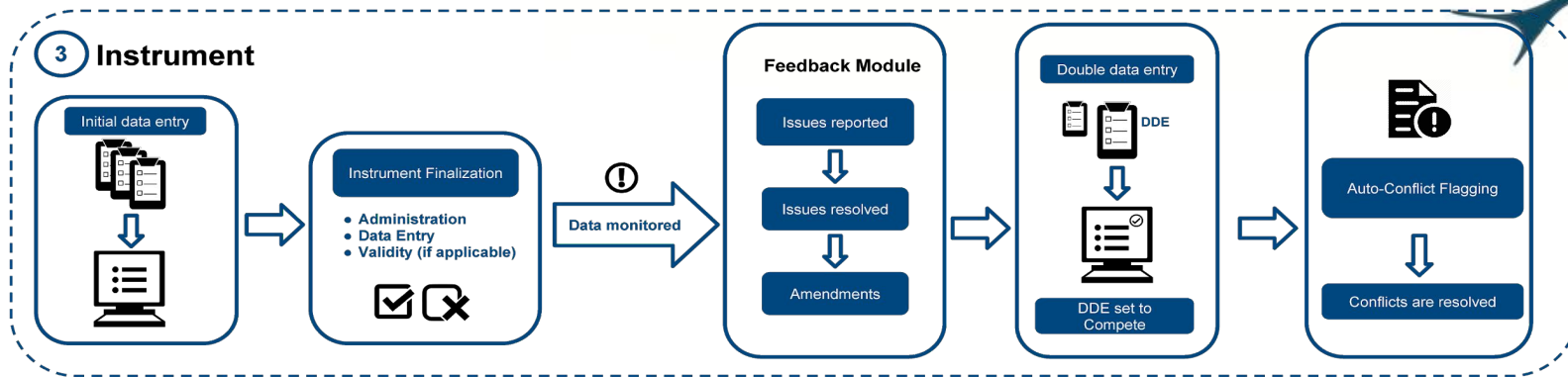
Candidates (total)	Candidates (CND only)	Sites	Configured Timepoints	Cohorts (and sub-studies)
1423	1115	61 (22 of which are imaging sites)	39	22

INTRO - Data Acquisition - BVL



- Repeated for all the instruments at the given visit
- Requirement for setting the entire visit to approval and uploading to DQT

INTRO - Data Acquisition - Stats



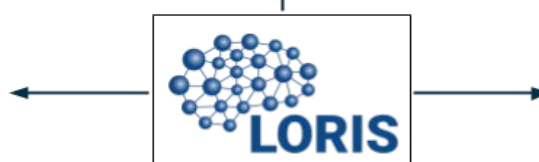
Instruments /Forms Coded	Fields	Candidates with Baseline Visits Started	Candidates with Baseline Visit Completed	Candidates with Follow Up Visit Started	Candidates with Follow Up Visit Completed
247 (165 translated)	12 506	1339 (out of 1423)	413(out of 1423)	865	382

INTRO - Data Acquisition - Biosample

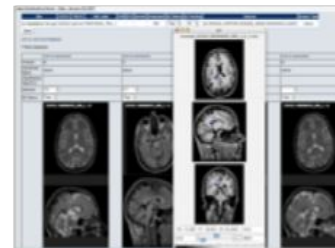


Behavioural/Neuropsych

Patient Profile:	Percentile Range		
	Standard Score Range		
Domain Scores	Subject Score	Standard Score	Percentile
Neurocognition Index (NCI)	NA	85	16
Composite Memory	102	103	58
Verbal Memory	51	93	32
Visual Memory	51	110	75
Processing Speed	48	79	8
Executive Function	34	75	5
Psychomotor Speed	174	93	33



Imaging



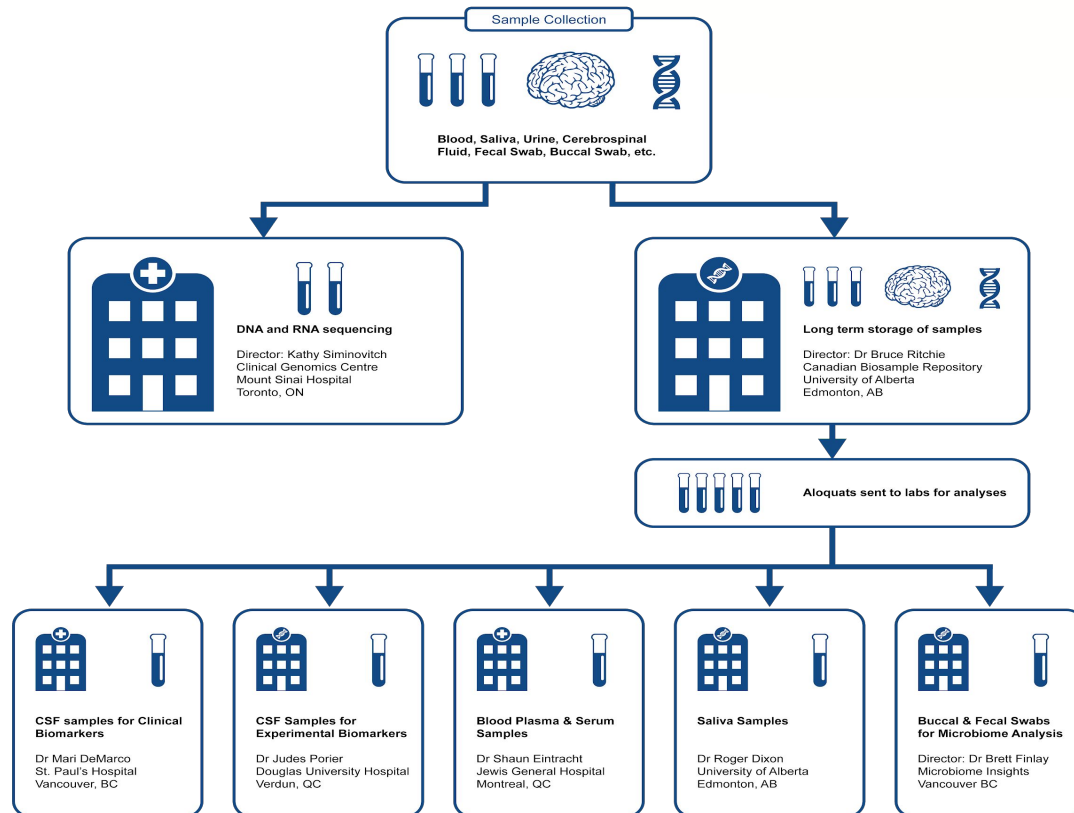
Genetics



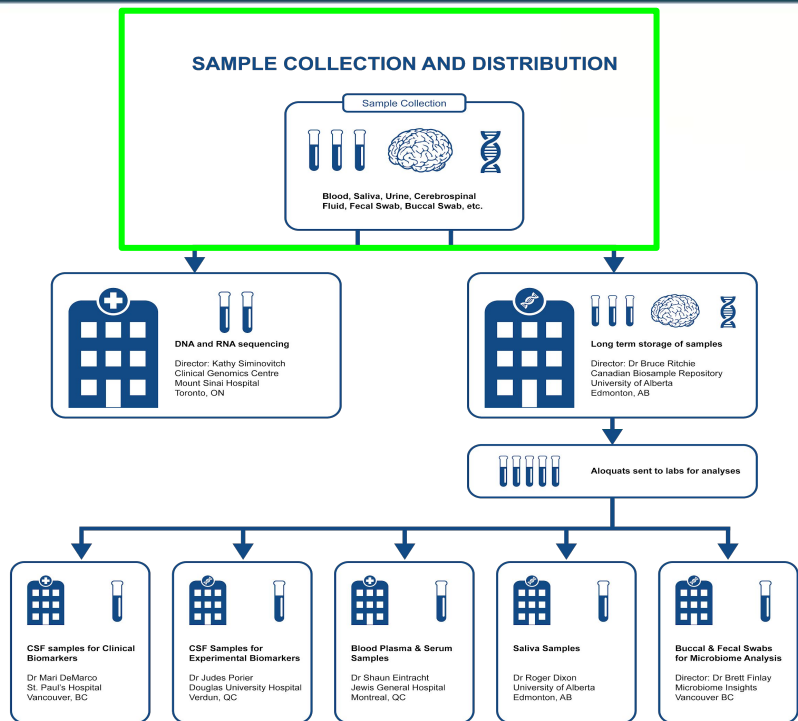
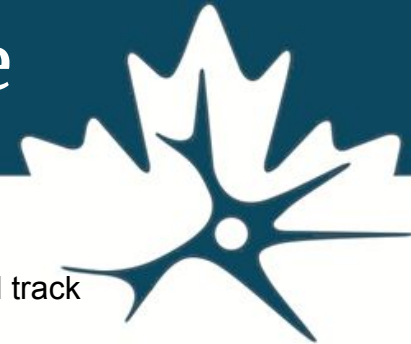
INTRO - Data Acquisition - Biosample



SAMPLE COLLECTION AND DISTRIBUTION



INTRO - Data Acquisition - Biosample

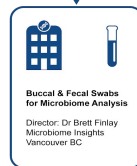
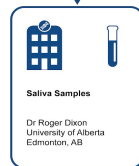
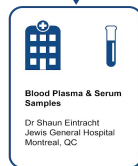
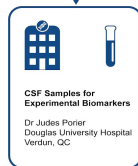
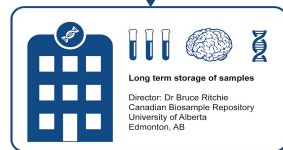
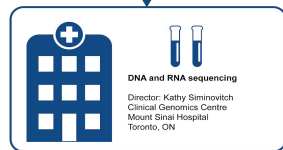
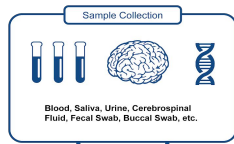


- Biobanking tool/module to import and track the collection process
- Tracking tool to streamline interaction with Canadian Biosample Repository (CBSR) Database
- Allow import of analyzed and processed data

INTRO - Data Acquisition - Biosample



SAMPLE COLLECTION AND DISTRIBUTION

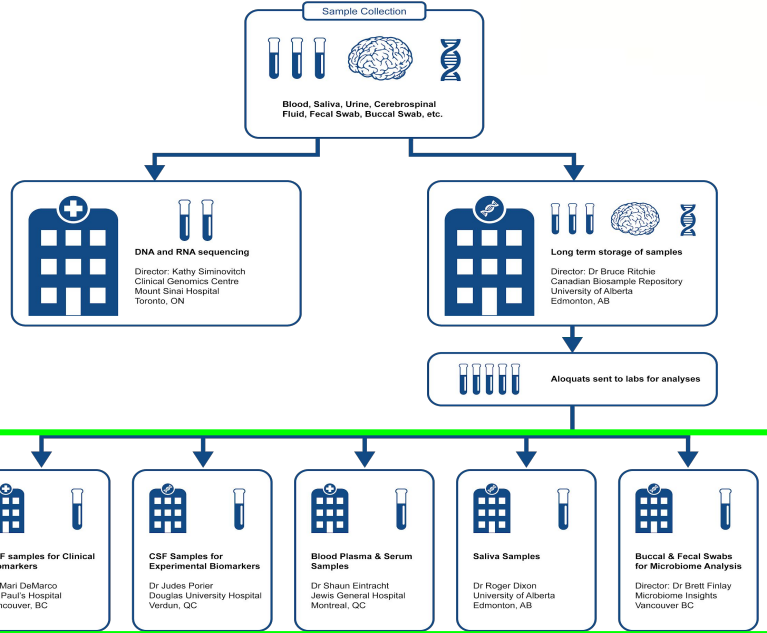


	Blood	CSF	Saliva	Buccal	Urine	Fecal
Raw	1014	125	1072	767	1037	633

INTRO - Data Acquisition - Biosample

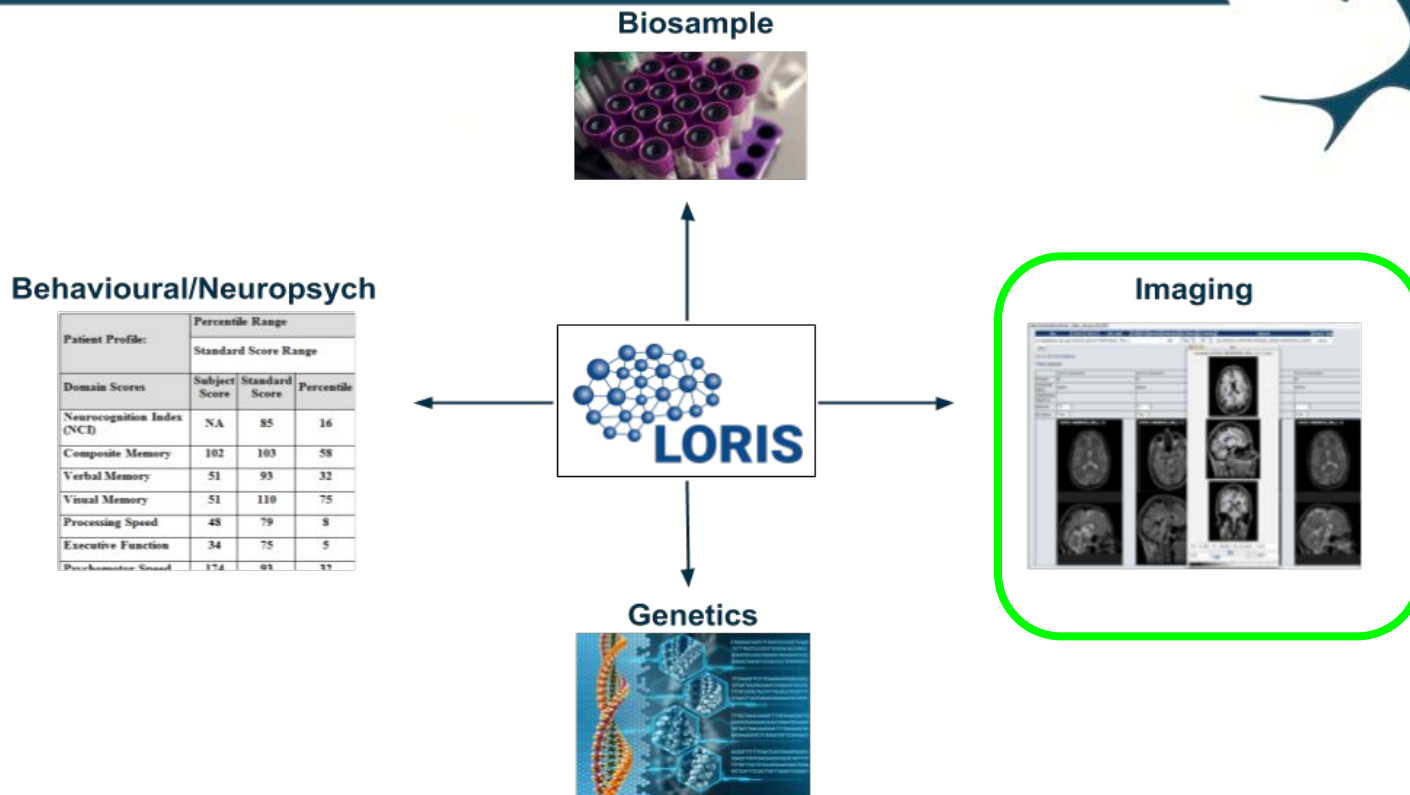


SAMPLE COLLECTION AND DISTRIBUTION



	Blood	CSF	Saliva	Buccal	Urine	Fecal
Raw	1014	125	1072	767	1037	633
Analysis	313	72	-	-	-	-

INTRO - Data Acquisition - Imaging



INTRO - Data Acquisition - Imaging



Scout	3D T1 Sagittal	PD/T2 Axial	FLAIR Axial	T2* Axial	DTI 30 dirs	BOLD Resting
	7 mins	5 mins	7 mins	5 mins	6 mins	11 mins

1 hour acquisition to acquire scans for different modalities

INTRO - Data Acquisition - Imaging




aces / DICOM_anonymizer



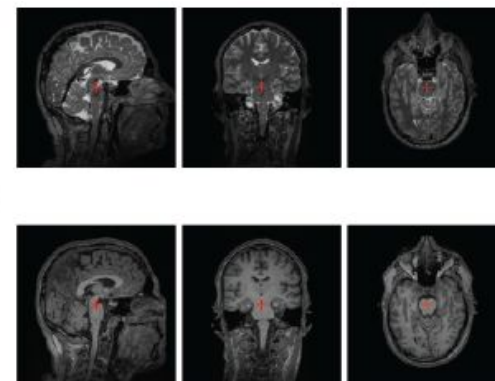
Mri Upload

Upload a New File

File to Upload

 Browse ...

Note: file name should be of type .tgz or tar.gz or .zip

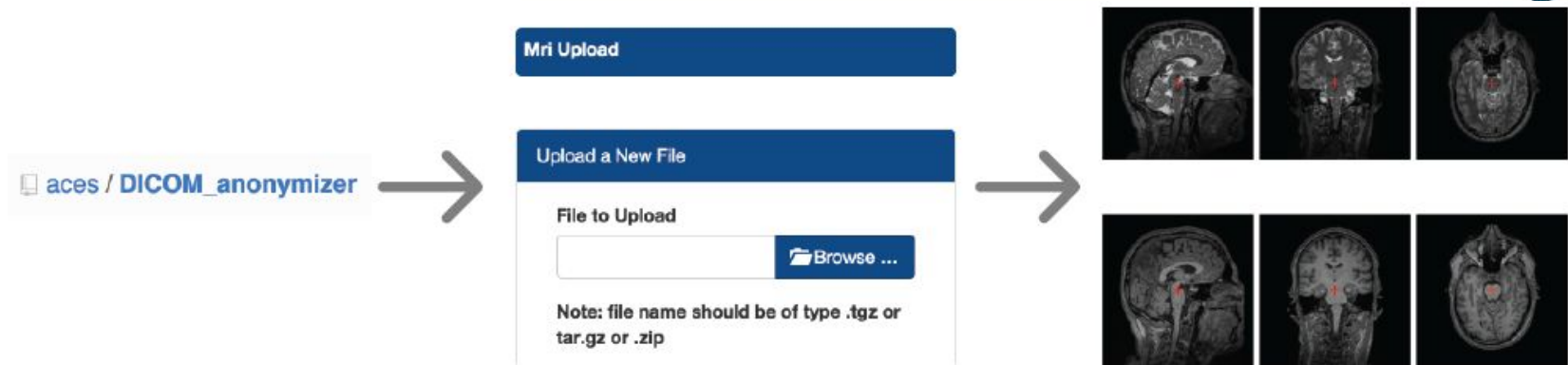
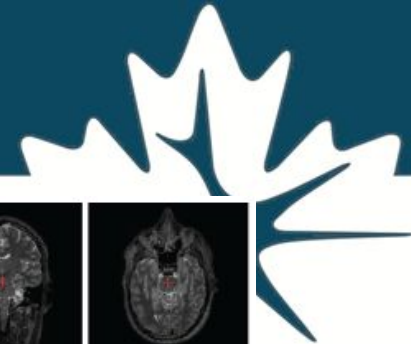


MRI scans are anonymized using the DICOM Anonymizer tool

Anonymized scans are uploaded to LORIS using the MRI Upload tool

Scans are viewable online through Brainbrowser

INTRO - Data Acquisition - Imaging



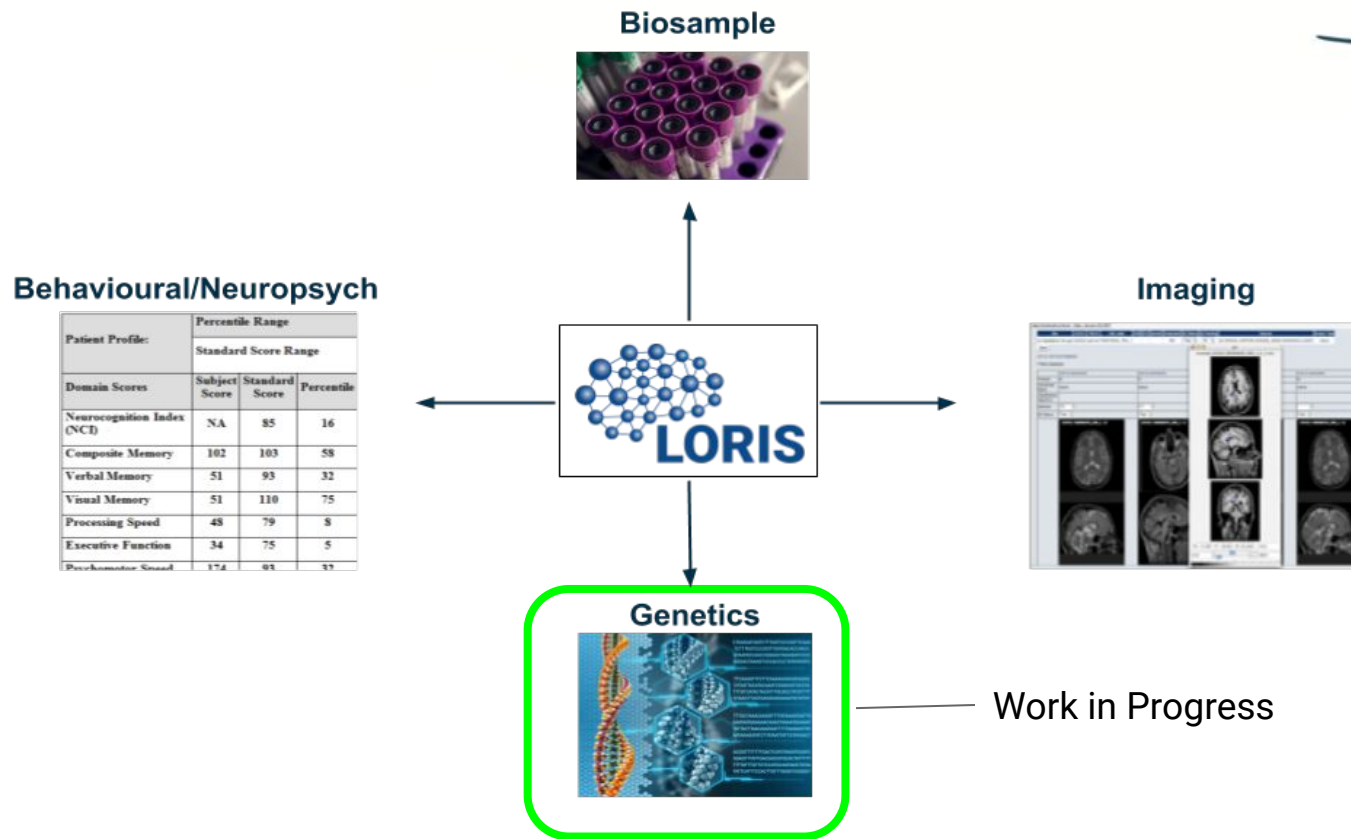
MRI scans are anonymized using the DICOM Anonymizer tool

Anonymized scans are uploaded to LORIS using the MRI Upload tool

Scans are viewable online through Brainbrowser

Subject Scans Uploaded	Phantom Scans Uploaded	Modalities	Scans Undergone QC (phantoms + subjects)	Scans Passed QC (phantoms + subjects)
1103	228	11	1140	1053

INTRO - Data Acquisition - Genetics



INTRO - Data Acquisition - Genetics



- Samples Genotyped at the University of Toronto
- Sequencing on an IlluminaMiSeq platform with a NeuroX or Affymetrix UK Biobank chip
- Aligned, annotated and variant calls at the analysis site

INTRO - Data Acquisition - Genetics



- Genotyped at the University of Toronto
- Sequencing on an IlluminaMiSeq platform with a NeuroX or Affymetrix UK Biobank chip
- Aligned, annotated and variant calls at the analysis site
- **Storage of raw and processed files/genetic data in LORIS**

The screenshot displays the Genomic Browser interface with the following sections:

- Genomic Browser** (top navigation)
- Profiles** (tabs: GWAS, SNP, CNV, Methylation, Files)
- Candidate Filters** (dropdown menu):
 - Site: Any
 - Subject: Any
 - DCCID: [text input]
 - Sex: All
 - External ID: [text input]
 - PSCID: [text input]
- Genomic Filters** (dropdown menu):
 - Files: [dropdown]
 - SNPs found: [dropdown]
 - CPGs found: [dropdown]
 - CNVs found: [dropdown]
- SNP Filters** (dropdown menu):
 - rsID: [text input]
 - Name: [text input]
 - Description: [text input]
 - Allele A: Any
 - Function Prediction: Any
 - External Source: [text input]
 - Allele B: Any
 - Eonic Function: [text input]
 - Damaging: Any
 - Reference Base: Any
 - Genotype Quality: [text input]
 - Platform: Any
 - Minor Allele: Any
 - Validated: Any
- Genomic Range Filters** (dropdown menu):
 - Strain: A
 - Build: Any
 - Genomic Range: [text input]
- Display**: All Sets
- Buttons**: Show data, Clear Form

INTRO - Data Acquisition - Genetics



- Genotyped at the University of Toronto
- Sequencing on an IlluminaMiSeq platform with a NeuroX or Affymetrix UK Biobank chip
- Aligned, annotated and variant calls at the analysis site
- Storage of raw and processed files in LORIS
- To view/QC through Genomic and SNP browser

Genomic Browser

Profiles GWAS SNP CNV Methylation Files

Candidate Filters

Site: Any Subproject: Any DCCID: External ID: PSCID: Sex: All

Genomic Filters

Files found: CPGs found: SNPs found: CNVs found:

Profiles GWAS SNP CNV Methylation Files

Candidate Filters

Site: Any Subproject: Any DCCID: External ID: PSCID: Sex: All

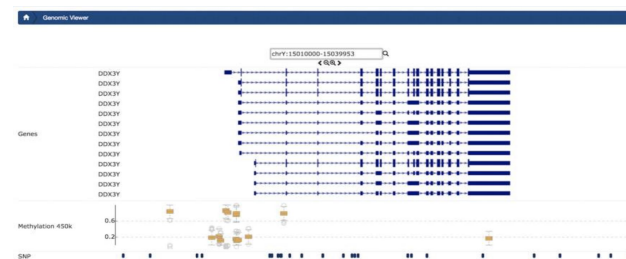
Genomic Range Filters

Struc: A Sub: Any Genomic Range:

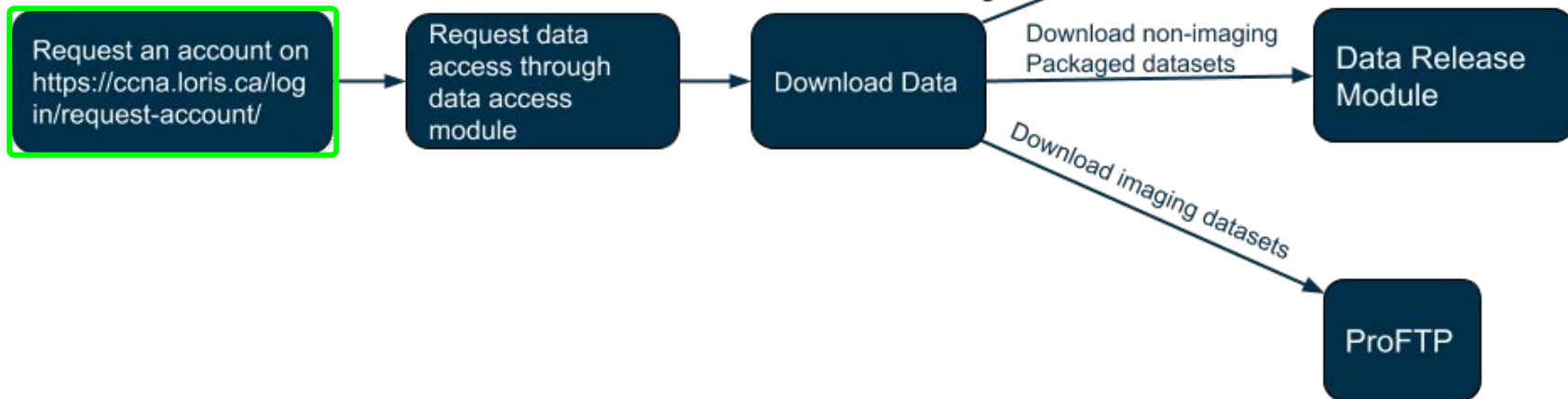
SNP Filters

rsID: Name: Description: Allele A: Any Function Prediction: Any External Source: Allele B: Any Exonic Function: Damaging: Any Reference Base: Any Genotype Quality: Platform: Any Minor Allele: Any Validated: Any

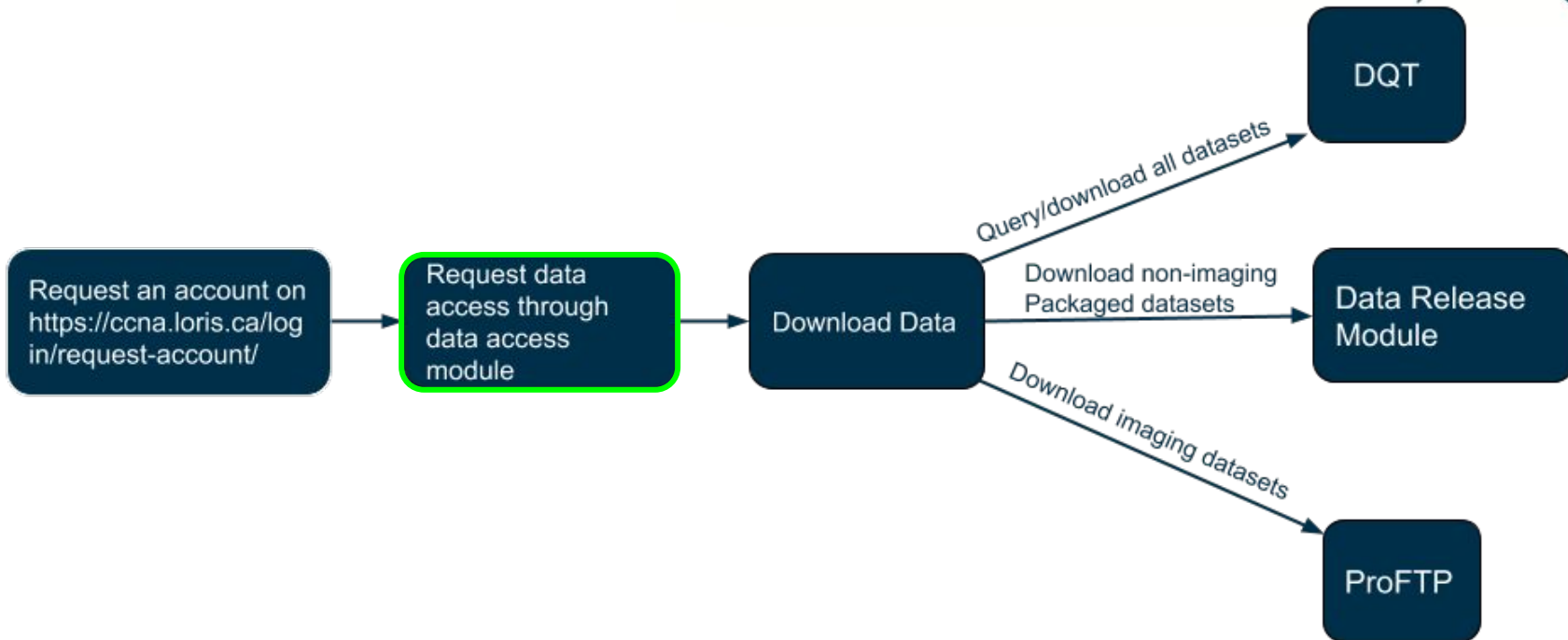
Display: All hits Show data Clear Form



Request An Account



Request Data Access



Request Data Access



Current process

Step 1

Victor sends out the PDF form to be filled.

Step 2

The researcher fills the form and returns to Victor via email.

Step 3

The form is sent via email to PDAC committee.

Step 4

Upon approval necessary access to data will be granted.

Request Data Access Module



Data Access module was designed to facilitate the process of both requesting and granting access to data

Proposed process

Step 1

The researcher will request an account on LORIS.

Request Data Access Module



Proposed process

Step 1

Step 2

The researcher will request an account on LORIS.

The researcher will fill out the Data-Access form on LORIS.

Request Data Access Module



Administrative information



Name*

Affiliation:*

Your status:

Address:

Street:

City:

Province:

Postal Code:

Email:*

Phone number:

Type of data requested



Screening/Clinical/Behavioural

Individual
test/elements
(optional):

Neuropsychological

Individual
test/elements
(optional):

MRI

Individual
test/elements
(optional):

Biomarker results

Individual
test/elements
(optional):

Submit

Reset

Request Data Access Module



Proposed process

Step 1

The researcher will request an account on LORIS.

Step 2

The researcher will fill out the Data-Access form on LORIS.

Step 3

Admin will be notified by email to approve the request.

Request Data Access Module



noreply@loris.ca
to me ▾

5:33 PM (0 minutes ago)



Dear CCNA data access admin,

A data access resquest was done by

Name: PP PS

Email: pierrepacsoo@gmail.com

To process the application please go to the CCNA data access admin panel. You can find the admin panel at the following link: http://localhost:8080/data_access/.

Thank you,

LORIS Team

Request Data Access Module



Selection Filter

Researcher

Affiliation

Category (visit)

Biomarker results
MRI
Neuropsychological
Screening/Clinical

Date

Status

Clear Filters

2 rows displayed of 2. (Maximum rows per page: 20)

Download Table as CSV

No.	Researcher	Affiliation	Category (visit)	Date	Application form	Status (select to change)
1	researcher 1	affiliation 1	Screening/Clinical, MRI	2020-10-19	View Form	in-progress
2	researcher 2	affiliation 2	MRI, Biomarker results	2020-10-19	View Form	requested

2 rows displayed of 2. (Maximum rows per page: 20)

- requested
- approved
- in-progress
- rejected
- requested

Request Data Access Module



Proposed process

Step 1

The researcher will request an account on LORIS.

Step 2

The researcher will fill out the Data-Access form on LORIS.

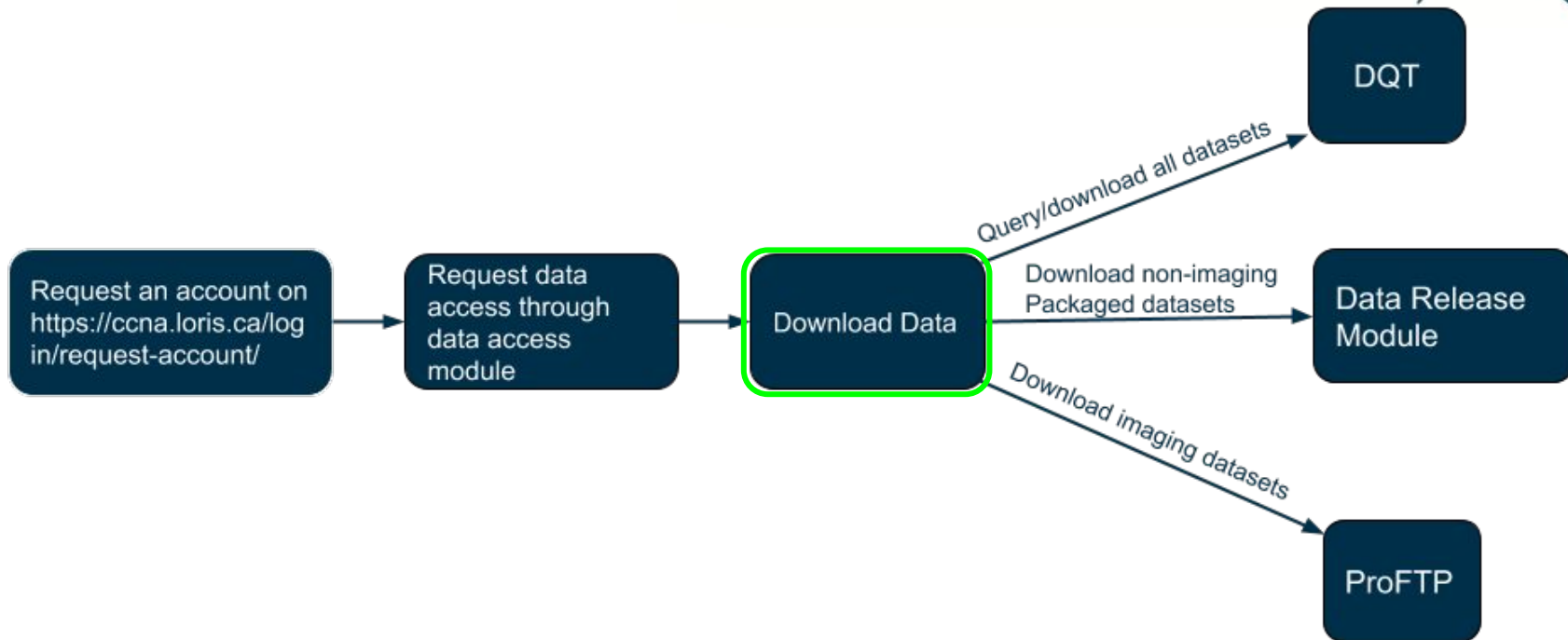
Step 3

Admin will be notified by email to approve the request.

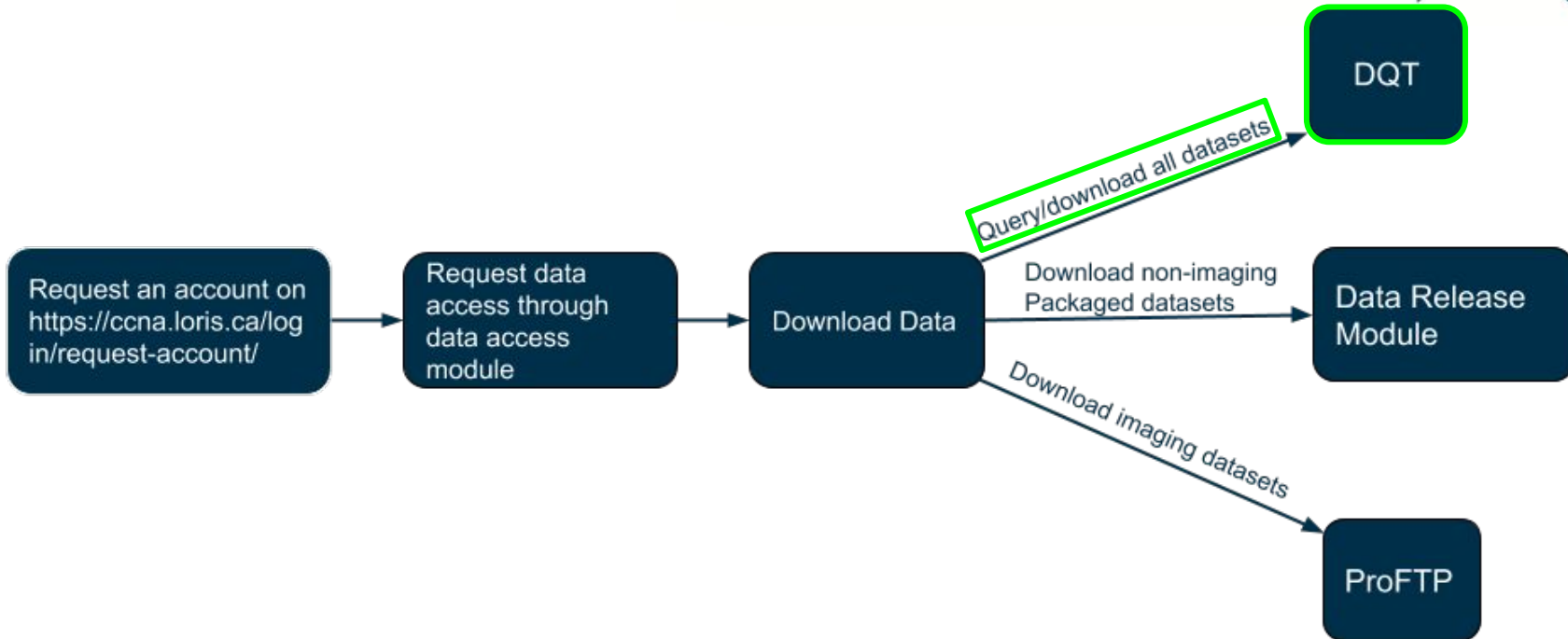
Step 4

Upon approval necessary access to data will be granted and the user is notified by email.

INTRO-How to access the data



Data Query Tool (DQT)



Data Query Tool (DQT) – What is it?



- Query and retrieve data without technical expertise (or a programmer)

Data Query Tool (DQT) – What is it?



- Query and retrieve data without Technical expertise
- **Design, execute, and save queries in a simple and intuitive manner**

Data Query Tool (DQT) – What is it?



- Query and retrieve data without Technical expertise
- Design, execute, and save queries in a simple and intuitive manner
- **Selection of variables, and quick download in most commonly used formats**

Data Query Tool (DQT) – What is it?



- Query and retrieve data without Technical expertise
- Design, execute, and save queries in a simple and intuitive manner
- Selection of variables, and quick download in most commonly used formats
- **Save and reload any query**

Data Query Tool (DQT) – Define Fields



Fields

[Add All](#) [Remove All](#)

Instrument:

Select One

- Annual_Follow_up_Phone_Call
- Autopsy_Banked_Tissue_Inventory
- Autopsy_Neuropathology_Report
- Benson_Complex_Figure_Test
- CERAD_Word_List_Test
- Clinical_Biomarker_Blood_Analysis_Data
- Clinical_Biomarker_CSF_Analysis_Data
- Clinical_Biosamples_CBSR
- Clinical_CBC
- Clinical_Current_Medication
- Clinical_Current_Medication_FU
- Clinical_Delirium_Assessment
- Clinical_Diagnosis_Confirmation
- Clinical_Dtt
- Clinical_Family_History

[is Website](#) | [GitHub](#)

Dataquery

Info **Define Fields** Define Filters View Data Statistical Analysis

Load Saved Query Manage Saved Queries

Fields

[Add All](#) [Remove All](#)

Search within instrument:

Instrument:

Select One

Visits:

None Selected

[Add All](#) [Remove All](#)

Instrument:

CERAD_Word_List_Test

Visits:

None Selected

Administration

Administration for CERAD Word List

Conflicts_Exist

Conflicts exist for instrument data entry

Data_entry

Data entry status for CERAD Word List

DDE_Complete

Double Data Entry was completed for instrument

Validity

Validity of data for CERAD Word List

Select All

Clinical_Assessment

Follow_Up_1_Year_Phone_Call

Follow_Up_2_Year_Clinical

Follow_Up_2_Year_MRI

Follow_Up_2_Year_Neuropath

Follow_Up_2_Year_Phone_Call

Follow_Up_3_Year_Phone_Call

Initial_Assessment_Screening

Initial_MRI

Neuropathology

Neuropsychology_Assessment

T10_V1_PRE_Neuropath

T10_V26_POST_1_Neuropath

T10_V27_POST_1_Neuropath

T10_V28_POST_1_MRI

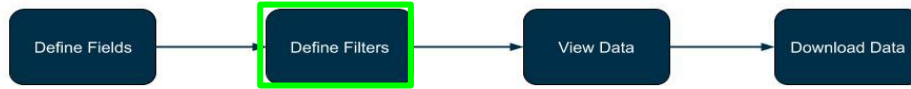
T10_V29_POST_2_Neuropath

T10_V30_POST_2_MRI

T12_9_Month_Followup



Data Query Tool (DQT) – Define Filters



Home > Dataquery

Info Define Fields **Define Filters** View Data Statistical Analysis

Load Saved Query ▾ Manage Saved Queries

Filter

And Or

Add Rule Add Group

Delete

Home > Dataquery

Info Define Fields **Define Filters** View Data Statistical Analysis

Load Saved Query ▾ Manage Saved Queries

Filter

And Or

Add Rule Add Group

CERAD_Word_List_Test

Administration = All Clinical_Assessment

Delete

Fields

Clear Query

CERAD_Word_List_Test	Data_entry
CERAD_Word_List_Test	Validity
CERAD_Word_List_Test	DDE_Complete
CERAD_Word_List_Test	Conflicts_Exist
CERAD_Word_List_Test	Administration

**Detailed examples
During the Live Demo!**

Data Query Tool (DQT) - View Data



Home > Dataquery

Info Define Fields Define Filters **View Data** Statistical Analysis

Load Saved Query Manage Saved Queries

Query Criteria

Run Query

Download Data as ZIP

Data

Cross-sectional

20 rows displayed of 413. (Maximum rows per page: 20)

1 2 3 4 5 6 7 »

Identifiers	Clinical_Medical_History,000_Administration	Clinical_Medical_History,000_Date_taken	Clinical_Medical_History,000_Validity	Clinical_Medi
BCT3499,Clinical_Assessment	All	2018-11-02		739
BCT3664,Clinical_Assessment	All	2018-08-31		729
BCT7918,Clinical_Assessment	All	2018-12-04		776.1
BCT9597,Clinical_Assessment	All	2018-09-21		923.7
BCT9713,Clinical_Assessment	All	2018-10-19		768.6
BCT9968,Clinical_Assessment	All	2018-09-07		1009.2
BRI1080,Clinical_Assessment	All	2018-01-30		857
BRI2365,Clinical_Assessment	All	2017-10-11		960.3

Data Query Tool (DQT) – Download Data



[Dataquery](#)

[Info](#) [Define Fields](#) [Define Filters](#) [View Data](#) [Statistical Analysis](#)

[Load Saved Query](#) [Manage Saved Queries](#)

Query Criteria

[Run Query](#)

[Download Data as ZIP](#)

Data

[Cross-sectional](#)

0 rows displayed of . (Maximum rows per page: 20)



Identifiers

0 rows displayed of . (Maximum rows per page: 20)

[Download Table as CSV](#)





Live Demo by Jessica Callegaro

Data-Dictionary for DQT



Home > Data Dictionary

Selection Filter

Instruments

1-Year Follow-Up Form for Control, AD, MCI, MBI groups
12-Month Visit (Visit 4) Checklist
2-Year Follow-Up Form for Control, MCI, MBI Groups
5x Sit to Stand
6 Minute Walk Test

Description Status

Search keyword

Clear Filters

20 rows displayed of 11292. (Maximum rows per page: 20)

1 2 3 4 5 6 7 »

No.	Source From	Name	Source Field	Description	Description Status
1	Annual_Follow_up_Phone_Call	Annual_Follow_up_Phone_Call_Date_taken	Date_taken	Date of Administration	Unchanged
2	Annual_Follow_up_Phone_Call	Annual_Follow_up_Phone_Call_Candidate_Age	Candidate_Age	Candidate Age (Months)	Unchanged
3	Annual_Follow_up_Phone_Call	Annual_Follow_up_Phone_Call_Window_Difference	Window_Difference	Window Difference (+/- Days)	Unchanged
4	Annual_Follow_up_Phone_Call	Annual_Follow_up_Phone_Call_Examiner	Examiner	Examiner	Unchanged
5	Annual_Follow_up_Phone_Call	Annual_Follow_up_Phone_Call_years_since_initial_assessment	years_since_initial_assessment	Years since completion of initial	Unchanged

DQT - Demo Test Case 1



Compare MOCA assessments for hearing-impaired MCI vs hearing-impaired Controls.

LORIS Candidate - Clinical - Imaging - Reports - Tools - Admin - ? Site Affiliations: 54 Admin account

Dataquery

Info Define Fields Define Filters View Data Statistical Analysis Load Saved Query - Manage Saved Queries

Filter

And Or Add Rule Add Group

General_Health_Hearing
004_score >= 0: no hearing handicap Clinical_Assessment Delete

General_Health_Hearing
004_score isNotNull Clinical_Assessment Delete

And Or Add Rule Add Group Delete Group

demographics
Cohort = MCI Initial_Assessment_Screening Delete

demographics
Cohort = CIE Initial_Assessment_Screening Delete

Fields

Clear Query

- demographics Cohort
- Screening_MOCA Validity
- Screening_MOCA Data_entry
- Screening_MOCA DDE_Complete
- Screening_MOCA Conflicts_Exist
- Screening_MOCA Administration
- Screening_MOCA 020_score
- Screening_MOCA 019_orientation
- Screening_MOCA 018_delayed_recall
- Screening_MOCA 017_abstraction
- Screening_MOCA 016_lang_fluency
- Screening_MOCA 015_lang_sentence

Tip:
make sure to select
'Longitudinal' view
when viewing data!

DQT - Demo Test Case 2



Investigate the link between homocysteine levels and WMH burden in different cohorts (AD, Mixed, MCI, V-MCI).

- Using blood analysis data and MRI visual measurements related to WMH.
- Checking specifically for px that meet the vascular dementia / cognitive impairment criteria (ARWMC \geq 2)

Filter

And Or

mri_visual_measurements
238_evidence_of_white_matter_hyperintensities | Initial MRI | Delete

And Or

demographics
Cohort | = | MCI | Clinical_Assessment | Delete

demographics
Cohort | = | V-MCI | Clinical_Assessment | Delete

demographics
Cohort | = | Mixed | Clinical_Assessment | Delete

demographics
Cohort | = | AD | Clinical_Assessment | Delete

Clinical_Biomarker_Blood_Analysis_Data
117_HOMO | Clinical_Assessment | Delete

mri_visual_measurements
248_burden_of_vascular_disease_meet_vMCI_c | yes | All Votts | Delete

mri_visual_measurements
248_burden_of_vascular_disease_meet_vMCI_criteria

mri_visual_measurements
243_fazekas_scale_subcortical_grade

mri_visual_measurements
242_fazekas_scale_periventricular_grade

mri_visual_measurements
241_arwmc_grade

mri_visual_measurements
238_evidence_of_white_matter_hyperintensities

demographics
Diagnosis

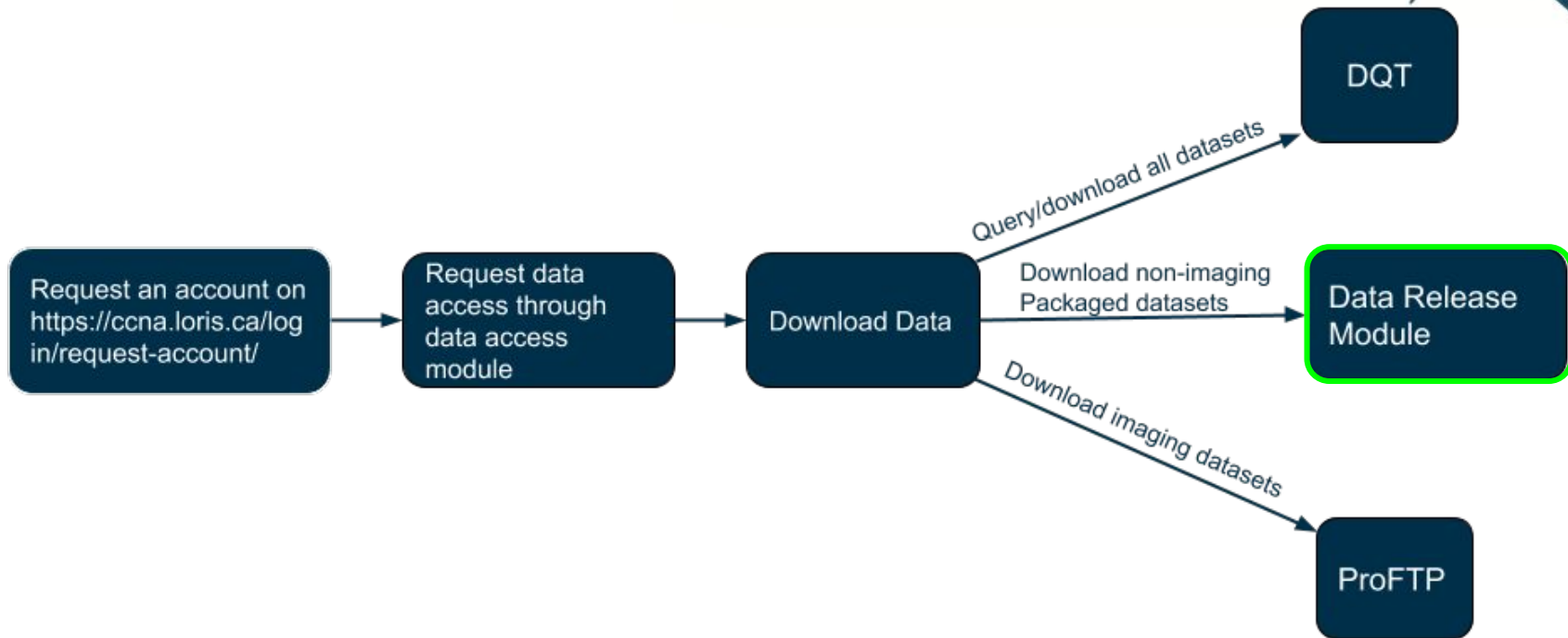
demographics
Cohort

Clinical_Biomarker_Blood_Analysis_Data
117_HOMO

Tip:
You can save your queries to retrieve and edit later!



Data Release



Data Release



- The Data Release Module can be used to easily distribute packaged data releases of your study
- Users can download customized subsets of data from this module
- Scaling and transferring solutions were implemented for researchers downloading large datasets

Data Release



LORIS Candidate ▾ Clinical ▾ Imaging ▾ Reports ▾ Tools ▾ Admin ▾ Members Portal ▾

? Site Affiliations: 54 Admin account ▾

🏠 > Data Release

Upload File

Add Permission

Manage Permissions

File Name	Version	Upload Date
COMPASSND_Feb_2020_datarelease_Fluid_Bomarker_Data_n_409.csv	03_2020	2020-07-06
COMPASSND_Feb_2020_datarelease_MRI_Vascular_and_Volumetrics_Data_n_409.csv	03_2020	2020-05-29
COMPASSND_Feb_2020_datarelease_Dx_evolution_n_409+_discrepancies.csv	03_2020	2020-05-14
COMPASSND_Feb_2020_datarelease_Year_1_Phone_call_Instrument_Data_n_375.csv	03_2020	2020-04-23
COMPASSND_Apr_20_Data_Dictionary.csv	03_2020	2020-04-21
COMPASS_ND Clinical Instrument Presentation Order_updated_Apr20.xlsx	03_2020	2020-04-13
COMPASSND_Feb_2020_datarelease_Clinical_Visit_Instrument_Data_n_409.csv	03_2020	2020-04-06
COMPASSND_Feb_2020_datarelease_Neuropsychology_Visit_Instrument_Data_n_409_with_Hayling_summary_stats.csv	03_2020	2020-03-30
COMPASSND_Feb_2020_datarelease_Screening_Visit_Instrument_Data_n_409.csv	03_2020	2020-03-19
COMPASSND_Feb_2020_datarelease_Neuropsychology_Visit_Instrument_Data_n_409_excluding_RAVLT_data.csv	03_2020	2020-03-19
COMPASSND_Feb_2020_datarelease_Neuropsychology_Visit_Instrument_Data_n_409_excluding_RAVLT_data.csv	03_2020	2020-03-19
COMPASSND_Feb_2020_datarelease_Neuropsychology_Visit_Instrument_Data_n_409_excluding_RAVLT_data_with_Hayling_summary_stats.csv	03_2020	2020-03-19
COMPASSND_Feb_2020_datarelease_Neuropsychology_Visit_Instrument_Data_n_410_excluding_RAVLT_data.csv	01-2020	2020-03-17

Data Release



User

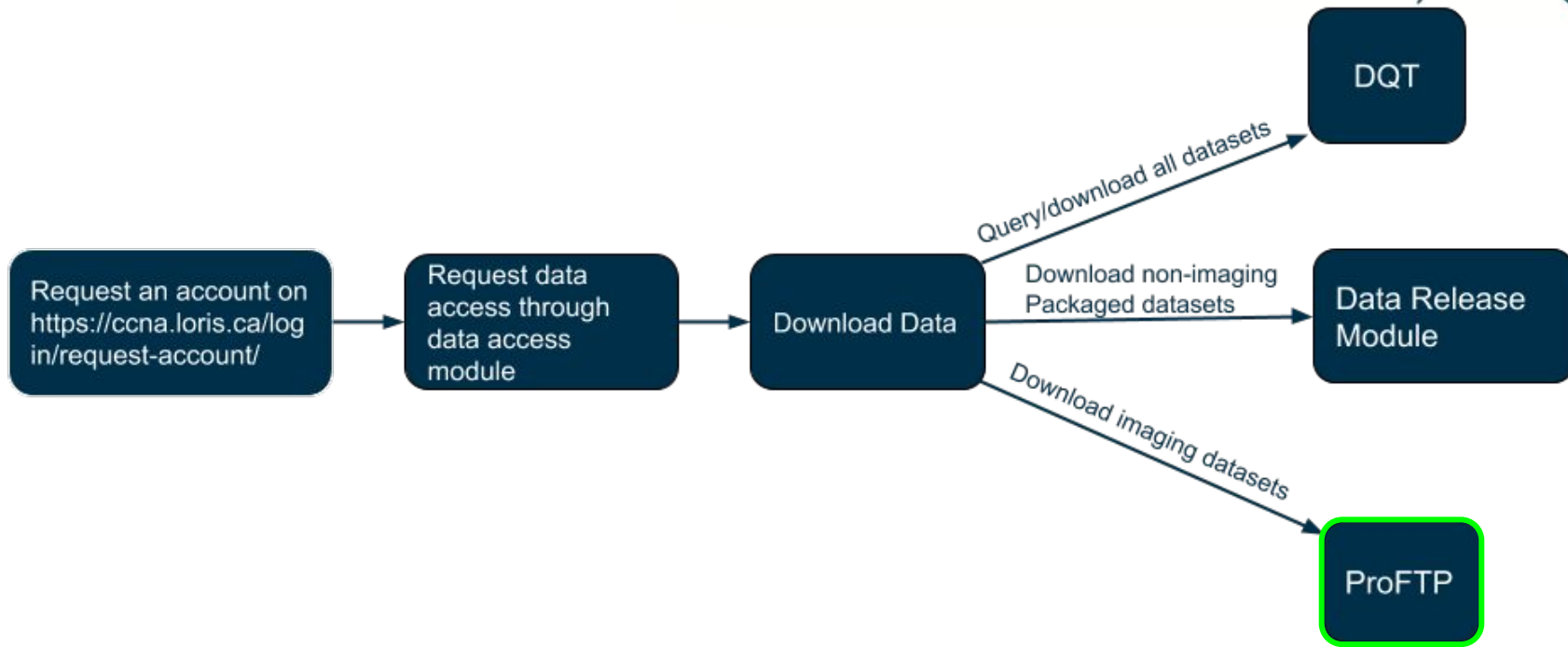
Choose a specific file or an entire release below:

Data Release File

OR

Data Release Version

ProFTP/sFTP



Accessing Files Using FileZilla



- An SFTP server is used to securely transfer large data files over a remote system to users based on permission.
- Easy setup and configuration of FileZilla client using LORIS credentials.
- Gain access to and download CCNA data release files.

Host: Username: Password: Port: Quickconnect

Status: Using username "jessica.callegaro@mail.mcgill.ca".
Connected to cctna.loris.ca
Status: Starting download of "/CCNA_data_release_01_2020/imaging/COMPASS_ND_Jan17_2020_datarelease_BCT_Initial_MRI.zip"
Command: cd "/CCNA_data_release_01_2020/imaging"
Response: New directory is: "/CCNA_data_release_01_2020/imaging"
Command: get "/CCNA_data_release_01_2020/imaging/COMPASS_ND_Jan17_2020_datarelease_BCT_Initial_MRI.zip" "/Users/jessicacallegaro/Desktop/CCNA DEV/COMPASS_ND_Jan17_2020_datarelease_BCT_Initial_MRI.zip"
Command: remote:/CCNA_data_release_01_2020/imaging/COMPASS_ND_Jan17_2020_datarelease_BCT_Initial_MRI.zip => local:/Users/jessicacallegaro/Desktop/CCNA DEV/COMPASS_ND_Jan17_2020_datarelease_BCT_Initial_MRI.zip

Local site: /Users/jessicacallegaro/Desktop/CCNA DEV
Remote site: /CCNA_data_release_01_2020/imaging

Filename	Filesize
COMPASS_ND_Jan17_2020_datarelease_BCT_Initial_MRI.zip	464.5 MB
COMPASS_ND_Jan17_2020_datarelease_BRI_Initial_MRI.zip	1.8 GB
COMPASS_ND_Jan17_2020_datarelease_CBH_Initial_MRI.zip	1.8 GB
COMPASS_ND_Jan17_2020_datarelease_CSA_Initial_MRI.zip	116.7 MB
COMPASS_ND_Jan17_2020_datarelease_DMC_Initial_MRI.zip	1.3 GB
COMPASS_ND_Jan17_2020_datarelease_HEJ_Initial_MRI.zip	1.4 GB
COMPASS_ND_Jan17_2020_datarelease_HHS_Initial_MRI.zip	260.3 MB
COMPASS_ND_Jan17_2020_datarelease_HMC_Initial_MRI.zip	2.5 GB
COMPASS_ND_Jan17_2020_datarelease_HNB_Initial_MRI.zip	1.7 GB
COMPASS_ND_Jan17_2020_datarelease_IUS_Initial_MRI.zip	827.6 MB

Server/Local file	Direction	Remote file	Size	Priority	Status
sftp://jessica.callegaro...	<<---	/CCNA_data_release_01_20...	464.5 MB	Normal	Transferring
/Users/jessicacallegaro...					

00:00:33 elapsed 00:01:24 left 34.3% 167,247,872 bytes (3.8 MB/s)

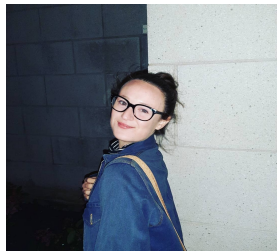
Queued files (1) Failed transfers Successful transfers

Queued: 464.5 MB

Acknowledgement



CCNA LORIS Dev Team



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Randi Pilon
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Celine Fouquet



Questions



You can email us at ccna@mcin.ca if you have any further questions!