

# 1. Update on the Canadian Longitudinal Study on Aging (CLSA)

**Ine Wauben**  
McMaster University, Hamilton

*Operations Committee Meeting  
Hamilton, Ontario*

July 4-5, 2019



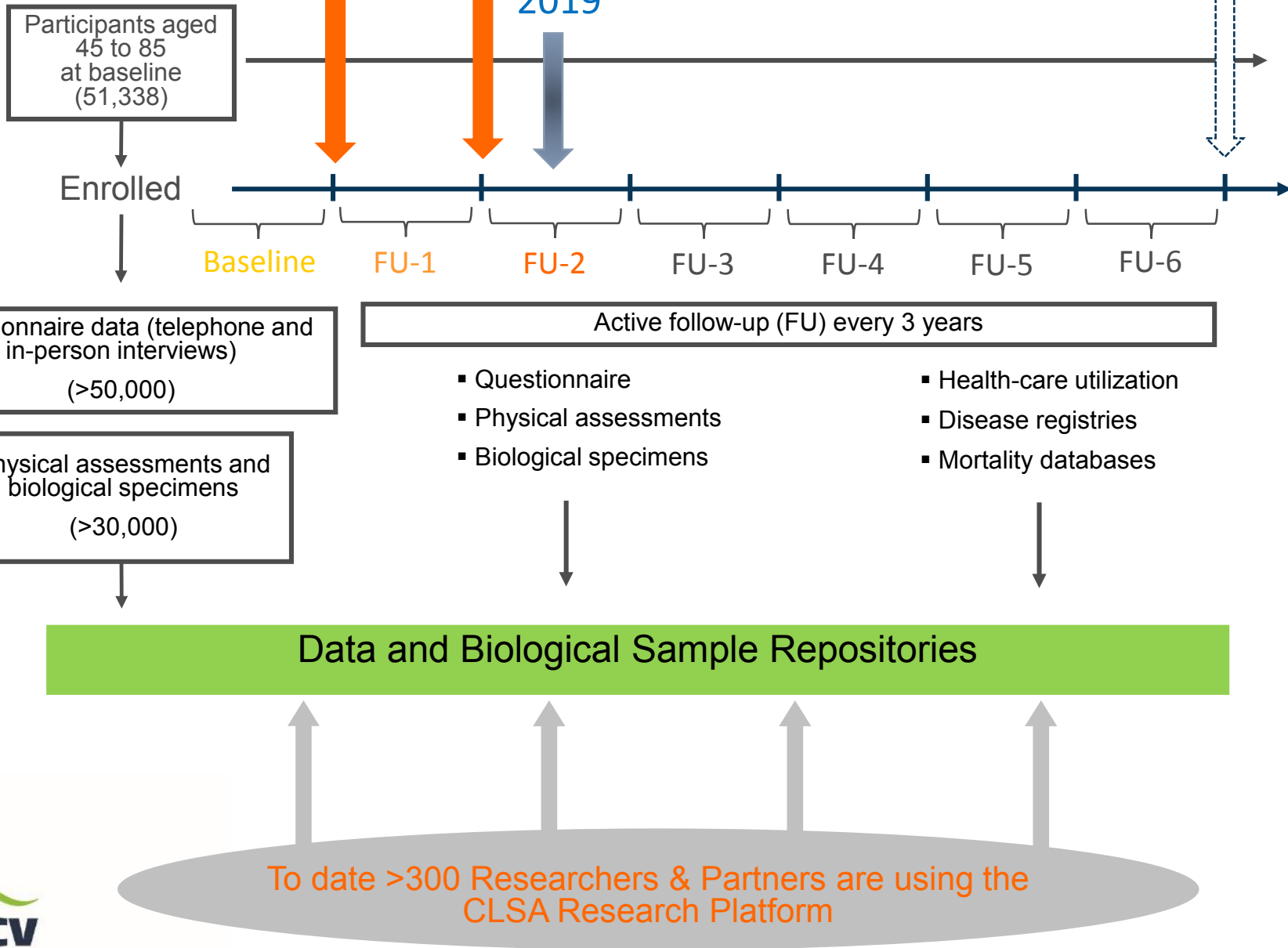
2010 - 2015

2015

2018

2033

2019



# The CLSA Research Platform in 2019

## Follow-up 1 (FUP1) Data and Biospecimen Collection Completion

(includes our last effort to reach those participants who had not been responsive)

- **Telephone Interviews**

(Baseline Recruitment of 21,241 participants aged 45-85)

- 16,728 Telephone Interviews completed
- 140 Web Questionnaires completed
- 892 (4.2%) withdrawn  
669 (3.1%) withdrawn after Baseline

## Home Interviews and Data Collection Site Visits

(Baseline recruitment of 30,097 participants aged 45-85)

- 27,765 In-Home Interviews completed (419 IH by Phone)
- 27,209 DCS Visits completed (824 DCS by phone & 308 DCS at home)
- 925 (3.1%) withdrawals  
355 (1.2%) withdrawals after Baseline



# The CLSA Research Platform in 2019

## Data and Biospecimen Collection Follow-up 2 (FUP2)

### Telephone Interviews

- 4,701 Telephone Interviews completed
- 152 withdrawn in FUP2 to date

### Home Interviews and Data Collection Site Visits

- 10,536 In Home Interviews completed (111 IH by Phone)
- 9,064 Data Collection Site Visits completed (50 DCS by phone)
- 170 withdrawn in FUP2 to date

# **Noteworthy:**

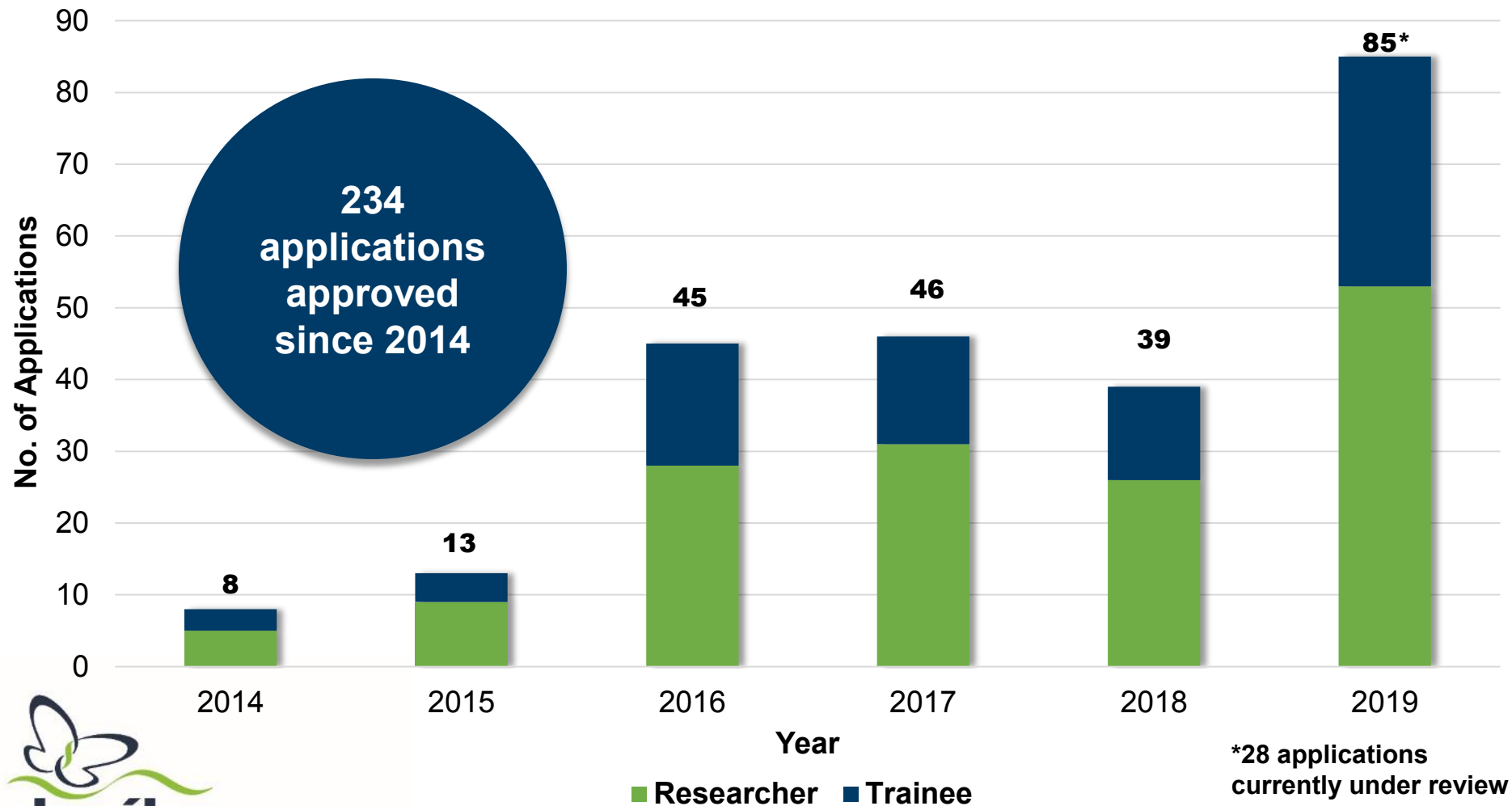
## **Data Access & Platform use successes**

- Launched Magnolia for online data access in February 2019
- Now have >230 approved applications for data access
- > 75 other users (methodology, enriching data collection, infrastructure use)

# Approved Applications Summary

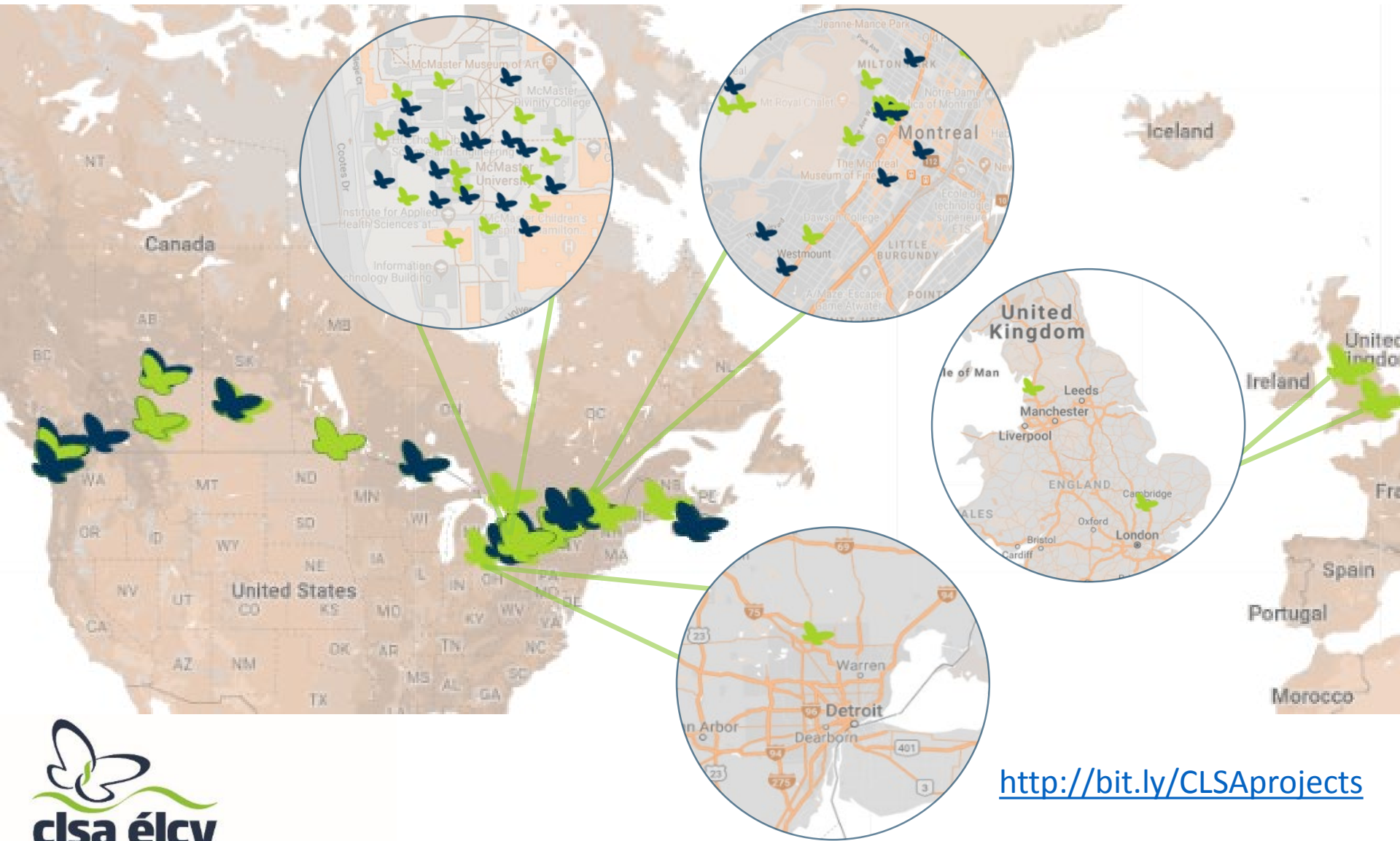
Year	Researcher	Trainee	Total	Complete
2014	5	3	8	2
2015	9	4	13	2
2016	28	17	45	3
2017	31	15	46	-
2018	26	13	39	-
2019	40 + (13)	17 + (15)	85	-
Total	152	82	234	7

# Approved Applications



# Where do applications come from?

Up to end of 2018



<http://bit.ly/CLSAprojects>



Canadian Longitudinal Study on Aging  
Étude longitudinale canadienne sur le vieillissement



# Upcoming Baseline Releases

- **Epigenetics** ( $n = 1,488$ ) – Summer 2019
- **Genomics** ( $n_{\text{curr}} = 9,896$ ;  $n_{\text{add}} = \sim 17,000$ ) – Fall 2019
- **Medications** – May 2020
- **Metabolomics** ( $n = 10k$ ) – Summer 2020



# Upcoming Follow-up 1 Releases

- **First release – July 2019**
  - Questionnaires, Vital status, Physical assessments (performance measures)
- **Second release – Fall 2019**
  - Cognition, Physical assessments (images, complex data), Hematology Report
  - Not included: Chemistry report, Linked data, Open text



# Approved user outputs

- 41 peer-reviewed publications\*
- 33 submitted to journal
- 1 “in press”
- 6 submitted for CLSA pre-publication review



Canadian Journal of Ophthalmology  
Volume 54, Issue 3, June 2019, Pages 367-373



## ORIGINAL ARTICLE

Visual impairment and the use of formal and informal home care in Canada: the Canadian Longitudinal Study on Aging

Rumaisa Aljied BSc \*, Marie-Josée Aubin MD, MSc, MPH <sup>†,‡</sup>, Ralf Buhrmann MD, PhD <sup>§</sup>, Ellen E. Freeman PhD \*  
<sup>†,‡,§</sup>



Canadian Longitudinal Study on Aging  
Étude longitudinale canadienne sur le vieillissement



[Aging Clinical and Experimental Research](#)

pp 1–7 | [Cite as](#)

Strength training is associated with better functional fitness and perceived healthy aging among physically active older adults: a cross-sectional analysis of the Canadian Longitudinal Study on Aging

Authors

Authors and affiliations

Jennifer L. Copeland , Joshua Good, Shilpa Dogra

Sakib et al. BMC Public Health (2019) 19:243  
<https://doi.org/10.1186/s12889-019-6567-x>

BMC Public Health

## RESEARCH ARTICLE

Open Access



The prevalence of multimorbidity and associations with lifestyle factors among middle-aged Canadians: an analysis of Canadian Longitudinal Study on Aging data

Mohammad Nazmus Sakib<sup>1</sup>, Shahin Shoostari<sup>1</sup>, Philip St. John<sup>2</sup> and Verena Menec<sup>1\*</sup>

## ARTICLE

**Risk factors for possible REM sleep behavior disorder**

A CLSA population-based cohort study

Chun Yao, MSc, Seyed-Mohammad Fereshtehnejad, MD, MPH, PhD, Mark R. Keezer, MDCM, PhD, Christina Wolfson, PhD, Amélie Pelletier, PhD, and Ronald B. Postuma, MD, MSc

Neurology® 2019;92:e475–e485. doi:10.1212/WNL.0000000000006849

## Correspondence

Dr. Postuma  
[ron.postuma@mcgill.ca](mailto:ron.postuma@mcgill.ca)

\*published online or in print

# Communications

*June 2018 to May 2019*



## Twitter

New Followers: 252

Total Followers: 2,296

Retweets: 804



## Facebook (Eng)

New Likes: 93

Total Likes: 1,283

## Facebook (Fr)

New Likes: 17

Total Likes: 188

## Media Tracking

**July 2018 – June 2019**

Print: 11

Online: 56

Broadcast: 2

Requests: 7



Canadian Longitudinal Study on Aging  
Étude longitudinale canadienne sur le vieillissement

## CLSA Website

Visits: 68,844

Unique Visitors: 40,023

Pageviews: 196,439

Unique Pageviews: 147,890

### Top Eng Pages:

- Participant Newsletters
- Data Access
- Researchers

### Top Fr Pages:

- Bulletin destiné aux participants
- Modifier vos coordonnées
- Accès aux données

# Noteworthy

- CFN/METABOLON PARTNERSHIP for Metabolomics analyses on 10,000 biospecimens -> Developed process for private industry to access CLSA data
- Use of Dalhousie CATI site and CLSA software for 5,000 participant back pain study
- Starting another CLSA website overhaul
- In discussion to house CLSA data at Statistics Canada RTRA (Real time rapid access) portal, ideal for governments
- CLSA Quality Management System
  - BBC is applying for the College of American Pathologists CAP accreditation
  - Overall CLSA is preparing for the IQMH (Institute for Quality Management in Healthcare) certification.



# Current Focus for the CLSA

- CLSA Platform Use
  - ✓ Data Access process
  - ✓ Biospecimen Access
  - ✓ Partnerships models using the CLSA Platform
- Sustainability Action Plan for the CLSA Research Platform
- Linkage administrative data (CIHI collaboration)
- Biomarker analyses -> Omics platform
- Funding applications:
  - CFI 2020 (NOI due Sept 16, full proposal due Jan 20, 2020)
  - CIHR 2020 (expected deadline of Spring 2020)
- Development of a CLSA Training Program
- Quality Management Systems
- Implementation of the Proxy Questionnaires following REB approval

