

# IMAGINE | Core Program

## - GENETICS -

John D. Rioux

- Progress/Major Accomplishments:
  - Collaboration with Dr. Mark Daly @ Broad Institute of MIT and Harvard for Whole Exome Sequencing (WES) and Genome-Wide Genotyping (GWAS) of IMAGINE genomic DNA
    - Represents (new) in-kind contribution >\$760k
  - IMAGINE membership in the International IBD Genetics Consortium (IIBDGC). Combined data for 50,000+ IBD patients (WES and GWAS).



Inflammation, Microbiome & Alimentation  Gastro-Intestinal & Neuropsychiatric Effects



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- Shipped 1,248 DNA samples (02/2020)
- Shipped 1,307 DNA samples (06/2020)
- Many thanks to J. Cunningham & PHRI Team
- Genotyping and sequencing @ Broad:
  - Completed batch #1
  - Est. completion batch #2 Dec/Jan

Total samples sent	
CD	1061
UC	679
IBD – Indeterminate	23
IBS	402
Healthy Controls	390
Total	2,555



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- Future Plans:

- IIBDGC CD manuscript; end 2020
- IIBDGC IBD manuscripts; 2021
- IMAGINE only IBD? To be discussed.
  - Specific phenotypes?
  - Integration with other genomic data?
- IMAGINE IBS, TBD

- Questions for IMAGINE Network

- Scientific questions of interest?

