

*Cohorts for Heart and Aging Research in Genomic Epidemiology Investigator Meeting
Boston, MA
September 26-28, 2017*

CHARGE INVESTIGATOR MEETING

Meeting Location:

Boston Marriott Copley Place
110 Huntington Avenue
Boston, Massachusetts 02116
Tel: +1-617-236-5800

Official Meeting: September 27-28, 2017

**Select Working Groups will meet on September 26th.*

Note on Meals:

Lunch will be served on Wednesday and Thursday, along with light refreshments during morning break. Breakfast will be served on Thursday.

Wednesday 9/27	Thursday 9/28
	Breakfast
Light morning snacks	Light morning snacks
Lunch	Lunch
Reception appetizers	
Group Dinner (optional)	
<i>Coffee, tea, soft drinks, and water served throughout</i>	

Tuesday, September 26th (Pre-Meeting)

1:00 – 5:00 Registration *3rd Floor*

Pre-Meeting

Individual Working Group Meetings		<i>3rd Floor</i>
9:00 – 4:00	U34 Workshop (Murabito)	<i>Simmons</i>
2:00 – 3:00	Analysis Commons Tutorial and Q&A (Brody)	<i>Suffolk</i>
3:00 – 4:00	Lipids (Peloso)	<i>Suffolk</i>
	Neurology Cognitive (Bressler)	<i>Wellesley</i>
4:00 – 5:00	ReproGEN (Murabito)	<i>Suffolk</i>
	Anthropometric (CT Liu)	<i>Wellesley</i>

Cohorts for Heart and Aging Research in Genomic Epidemiology Investigator Meeting
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September 26-28, 2017

Evening Activities

7:00 **RSC Dinner Meeting (by invitation only)**
Bistro du Midi
272 Boylston Street
Boston, MA 02116
617-426-7878

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September 26-28, 2017*

Wednesday, September 27th

7:30 – 5:00 Registration **3rd Floor AM, 4th Floor PM**

Session A:	Individual Working Group Meetings	<i>3rd Floor</i>
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8:00 – 12:00

8:00 – 9:00	Renal (Tin)	<i>Suffolk</i>
	Hemostasis (N Smith)	<i>Wellesley</i>
	Metabolomics (Rotter, Yu, van Duijn)	<i>Simmons</i>

9:00 – 10:00	Gene-Lifestyle Interactions (Rao)	<i>Suffolk</i>
	CHARGEmtDNA+ (Kraja)	<i>Wellesley</i>
	Neurology Stroke (Seshadri)	<i>Simmons</i>

<i>9:45 – 10:15</i>	<i>Morning Break</i>	<i>Atrium, 3rd Floor</i>
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10:00 – 11:00	Pharmacogenomics (Psaty)	<i>Suffolk</i>
	Nutrition (C Smith)	<i>Wellesley</i>
	Pulmonary (London)	<i>Simmons</i>

11:00 – 12:00	Subclinical / CHD (Bis)	<i>Suffolk</i>
	Mendelian Randomization (Davies)	<i>Wellesley</i>
	Neurology MRI (Ikram)	<i>Simmons</i>

Lunch Buffet		Salon E, 4th Floor
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12:00 – 1:00

*Cohorts for Heart and Aging Research in Genomic Epidemiology Investigator Meeting
Boston, MA
September 26-28, 2017*

Wednesday continued:

Session B:	Congress Opening	<i>Salons G-K, 4th Floor</i>
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1:00 – 1:05 **Welcome**
Sudha Seshadri, MD (*Boston University School of Medicine*)

1:05 – 1:20 **State of CHARGE**
Christopher J. O’Donnell, MD, MPH (*Center for Population Genomics, Boston VA Healthcare System*)

Session B1:	Battle of the Sexes: Genetics Women’s Health/Sex-specific Genetics	<i>Salons G-K, 4th Floor</i>
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1:20 – 2:30 *Moderators: Carolyn M. Hutter, Ph.D. (Division of Genome Sciences, NHGRI) and George Papanicolaou, Ph.D. (NHLBI)*

1:20 – 1:35 **Understanding the aetiology of reproductive ageing and its links to broader health**
John R.B. Perry, Ph.D. (*MRC Epidemiology Unit, University of Cambridge*)

1:40 – 1:55 **Sex-specific associations with adult body size and shape**
Anne Justice, MA, Ph.D. (*Geisinger Health Systems*)

2:00 – 2:10 **Differences in gut microbiome composition in males and females**
Djawad Radjabzadeh, MSc (*Erasmus Medical Center, Microbiome WG, selected abstract*)

2:15 – 2:25 **Key biological pathways for Type 2 Diabetes determined by genetic cluster analysis on related traits**
Miriam Udler, MD, Ph.D. (*Massachusetts General Hospital, T2D WG, selected abstract*)

2:30 – 3:00 *Afternoon Break (Coffee Service Only)* *Salon G-K Foyer, 4th Floor*

Session B2:	Going to extremes: big populations, rare variants, and return of unexpected findings	<i>Salons G-K, 4th Floor</i>
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3:00 – 4:35 *Moderators: Teri Manolio, MD, Ph.D. (Division of Genomic Medicine, NHGRI) and Vasan Ramachandran, MD (Boston University)*

3:00 – 3:15 **Trans-European GSA Consortium**
Prof.dr. André Uitterlinden, Ph.D. (*Erasmus Medical Center*)

3:20 – 3:35 **Returning genomic results to patients and study participants**
Robert C. Green, MD, MPH (*Brigham and Women’s Hospital, Broad Institute, and Harvard Medical School*)

*Cohorts for Heart and Aging Research in Genomic Epidemiology Investigator Meeting
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September 26-28, 2017*

3:40 – 3:55 **Returning results to study participants: challenges and a proposed approach in the Jackson Heart Study**
Adolfo Correa, MD, Ph.D. (*University of Mississippi Medical Center*)

4:00 – 4:15 **Exploring rare variation in very large collections of human exomes and genomes**
Daniel MacArthur, Ph.D. (*Broad Institute of MIT and Harvard*)

4:20 – 4:30 **Multi-ancestry genome-wide study incorporating gene-smoking interactions identifies 139 genome-wide significant loci for systolic and diastolic blood pressure**
Yun Ju Sung, Ph.D. (*Washington University, Gene-Lifestyle Interactions WG, selected abstract*)

Session B3:	Poster Blitz	<i>Salons G-K, 4th Floor</i>
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4:35 – 5:00 **One-minute oral presentations of posters**
Moderator: Daniel Chasman

1. Paul Yousefi, PhD, MPH
2. Eirini Marouli, PhD
3. Pooja R. Mandaviya, MSc
4. Tuomas Kilpeläinen, PhD
5. Melissa A. Richard, PhD
6. Michael R. Brown, MS
7. Zhe Wang, MSc
8. Jingjing Liang, PhD
9. Shafquat Ahmad, PhD
10. Seyedeh Maryam Zekavat, BS
11. Kathryn T. Hall, PhD, MPH
12. Jordi Merino, PhD
13. Carolina Medina-Gomez, PhD

Poster Session / Reception	<i>Gloucester, 3rd Floor</i>
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5:00 – 7:00 Hors d'oeuvres and cash bar

Group Dinner (optional)	7:00 PM
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Top of the Hub Restaurant and Skywalk (*walking directions printed on last page of this agenda*)
Prudential Center
800 Boylston Street
Boston, MA

*Cohorts for Heart and Aging Research in Genomic Epidemiology Investigator Meeting
Boston, MA
September 26-28, 2017*

Thursday, September 28th

7:30 – 5:00 Registration **4th Floor**

7:15 – 8:15 Light breakfast **Salon E, 4th Floor**

Session C1:	Biointegrenomics: Computational inference of biological function	<i>Salons G-K, 4th Floor</i>
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8:30 – 10:00 *Moderators: L. Adrienne Cupples, Ph.D. (Boston University) and Vilmundur Gudnason, MD, Ph.D. (Icelandic Heart Association Research Institute)*

8:30 – 8:45 **Using genomics, metabolomics, iPSC and brain organoids to understand novel biology underlying dementia**
Prof. Dr. C.M. van Duijn, Ph.D. (*Erasmus Medical Center Rotterdam*)

8:50 – 9:00 **MTAG: Multi-Trait Analysis of GWAS implicates novel loci for depressive symptoms, neuroticism, and subjective well-being**
Raymond K. Walters, Ph.D. (*Massachusetts General Hospital, selected abstract*)

9:05 – 9:15 **Metabolome profile and pulmonary function: pilot findings from the Atherosclerosis Risk in Communities Study**
Bing Yu, Ph.D. (*UT Houston, Pulmonary WG, selected abstract*)

Keynote:	Dissecting disease mechanism using genetic, epigenomic, cellular, and clinical variation across individuals	
9:20-9:50	Manolis Kellis, Ph.D. (<i>MIT</i>)	

10:00 – 10:30 Morning Break Salons G-K Foyer, 4th Floor

Session C2:	Big Brains: Big Data in Neuro	<i>Salons G-K, 4th Floor</i>
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10:30 – 12:00 *Moderators: Arfan Ikram, MD, Ph.D. (Erasmus MC) and Myriam Fornage, Ph.D. (UT Houston)*

10:30 – 10:45 **Genetic dissection of high-dimensional neuroimaging data: findings from the first brain-wide genome-wide meta-analysis**
Hieab Adams, Ph.D. (*Erasmus Medical Center Rotterdam*)

10:50 – 11:05 **X-chromosome association analyses in the International Genomics of Alzheimer Project**
Céline Bellenguez, Ph.D. (*Institut Pasteur de Lille, University of Lille*)

11:10 – 11:25 **MEGASTROKE Project: Multi-ancestry genome-wide association study of 520,000 subjects identifies 32 loci associated with stroke and stroke subtypes**

Cohorts for Heart and Aging Research in Genomic Epidemiology Investigator Meeting

Boston, MA

September 26-28, 2017

Stéphanie Debette, MD, Ph.D. (University of Bordeaux; Boston University)

- 11:30 – 11:40 **Rare variant association in non-coding sequence: an analysis of deep coverage whole genome sequences and blood lipids in 16,324 individuals**
Pradeep Natarajan, M.D. M.M.Sc. (*Massachusetts General Hospital, Lipids WG, selected abstract*)
- 11:45 – 11:55 **Analysis of whole exome and whole genome sequencing using family-based linkage suggests rare variants with large effects are relatively common in extended families**
Nicholette D. Palmer Allred, Ph.D. (*Wake Forest University, Family Studies WG, selected abstract*)

Awards Ceremony	<i>Salons G-K, 4th Floor</i>
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12:00 – 12:15

Closing Remarks	<i>Salons G-K, 4th Floor</i>
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12:15 – 12:20 Sudha Seshadri, MD (*Boston University School of Medicine*)

Lunch Buffet	<i>Salon E, 4th Floor</i>
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12:20 – 1:30

Session D:	Individual Working Group Meetings	<i>3rd Floor</i>
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1:30 – 2:30	MVP (O'Donnell)	<i>Suffolk</i>
	Microbiome (Kraaij)	<i>Wellesley</i>
	Musculoskeletal (Kiel)	<i>Simmons</i>

2:30 – 3:30	Glycemic (Meigs)	<i>Suffolk</i>
	Analysis & Bioinformatics (Cupples)	<i>Wellesley</i>
	Neurology (Seshadri)	<i>Simmons</i>

<i>3:15 – 3:45</i>	<i>Afternoon Break (Coffee Service Only)</i>	<i>Atrium, 3rd Floor</i>
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3:30 – 4:30	Glycemic (Meigs)	<i>Suffolk</i>
	Sleep (Gottlieb)	<i>Wellesley</i>
	Neurology Dementia (Seshadri)	<i>Simmons</i>

Walking Directions to the Group Dinner



Directions from the Marriott Hotel

Copley Place, where the Marriott Hotel is located, is connected to the Prudential Center through a glass enclosed walkway.

- Exit the Marriott Hotel into Copley Place and turn left. You will see a Starbucks on the left.
- Walk through the glass-enclosed walkway into the Prudential Center Mall.
- Continue straight toward Sugarfina.
- Veer left and continue down the "Back Bay Arcade" until you reach the "Center Court."
- Take the hallway diagonal to the right that says "Prudential Arcade".
- Take the first set of revolving doors on your right hand side to enter the Prudential Tower lobby. There will be a security person at the entrance and he/she will direct you to the middle bank of elevators.
- Take the elevator to either the 50th floor Skywalk Observatory or the 52nd floor Top of the Hub Restaurant.