

*Cohorts for Heart and Aging Research in Genomic Epidemiology Investigator Meeting
Charlottesville, VA (Hosting cohort: MESA)
September 27 – September 29, 2016*

Tuesday, September 27th

1:00 – 5:00 Registration *Jefferson Ballroom Foyer*

Pre-Meeting

Individual Working Group Meetings
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8:00 – 5:00	U34 Workshop (J. Murabito)	<i>Salon A</i>
2:00 – 3:00	OPEN	<i>Lewis & Clark</i>
	OPEN	<i>Ashlawn & Highland</i>
3:00 – 4:00	Musculoskeletal (D. Kiel)	<i>Lewis & Clark</i>
	Neuro Cognition (S. Seshadri)	<i>Ashlawn & Highland</i>
4:00 – 5:00	DM/GLY (J. Meigs)	<i>Lewis & Clark</i>
	Neuro Dementia & AD Biomarkers (S. Seshadri)	<i>Ashlawn & Highland</i>

Evening Activities

7:15	RSC Dinner Meeting (by invitation only) <i>C&O Restaurant</i> 515 Water Street (at end of downtown mall) 434-971-7044 http://www.candorestaurant.com/
7:00-10:00	Social outing (optional) <i>Kardinal Hall</i> 722 Preston Avenue 434-295-4255 http://kardinalhall.com/ Join your colleagues for casual food, drink, and games of bocce and Chickapig!

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Wednesday, September 28th

7:30 – 5:00	Registration	<i>Jefferson Ballroom Foyer</i>
7:30 – 9:00	Light breakfast	<i>Jefferson Ballroom Foyer</i>
7:00 – 8:00	<i>Pre-Meeting WG: CHARGEmtDNA+ (A. Kraja)</i>	<i>Salon A</i>
7:00 – 8:00	<i>Pre-Meeting WG: Microbiome (R. Kraaij)</i>	<i>Salon B</i>

Session A: Individual Working Group Meetings

8:00 – 12:00

8:00 – 9:00	Pulmonary (S. London)	<i>Salon A</i>
	Lipids (A. Cupples)	<i>Salon B</i>
	Neuro MRI and PET Imaging (S. Seshadri)	<i>Salon C</i>
9:00 – 10:00	Gene-Lifestyle (D.C. Rao)	<i>Salon A</i>
	Nutrition (C. Smith)	<i>Salon B</i>
	Renal (A. Tin)	<i>Salon C</i>

<u>10:00 – 10:30</u>	<i>Morning Break</i>	<i>Jefferson Ballroom Foyer</i>
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10:00 – 11:00	Pharmacogenetics (B. Psaty)	<i>Salon A</i>
	Exome BP (C. Liu)	<i>Salon B</i>
	Anthropometry (K. North)	<i>Salon C</i>
11:00 – 12:00	DM/GLY (J. Meigs)	<i>Salon A</i>
	Subclinical/CVD (J. Bis)	<i>Salon B</i>
	Hemostasis (N. Smith)	<i>Salon C</i>

Lunch Buffet

Lobby Atrium

12:00 – 1:00

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Wednesday continued:

Session B:	Congress Opening	<i>Jefferson Ballroom</i>
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- 1:00 – 1:05 **Welcome**
Stephen S. Rich, PhD (Center for Public Health Genomics, University of Virginia)
- 1:05 – 1:20 **State of CHARGE**
Christopher J. O’Donnell, MD, MPH (Center for Population Genomics, Boston VA Healthcare System)

Session B1:	Precision Medicine	<i>Jefferson Ballroom</i>
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- 1:20 – 2:20 *Moderator: Christopher J. O’Donnell, MD, MPH*
- 1:20 – 1:35 **NHLBI Trans –Omics for Precision Medicine (TOPMed)**
George Papanicolaou, PhD (NHLBI)
- 1:40 – 1:55 **NHGRI Centers for Common Disease Genomics (CCDG)**
Adam Felsenfeld, PhD (NHGRI)
- 2:00 – 2:15 **UK Biobank and the UK Perspective on Precision Medicine**
Abbas Dehghan, MD, PhD (Erasmus MC)

Session B2:	Beyond GWAS: The ‘Omics Landscape	<i>Jefferson Ballroom</i>
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- 2:20 – 3:20 *Moderator: Myriam Fornage, PhD*
- 2:20 – 2:35 **Integrative Analysis Using Multi-Dimensional Omics Data**
Daniel Levy, MD (NHLBI; Framingham Heart Study)
- 2:40 – 2:55 **Proteomic and Metabolomic Approaches for Biomarker and Pathway Discovery**
Robert E. Gerszten, MD (Beth Israel Deaconess Medical Center, Harvard Medical School, Broad Institute)
- 3:00 – 3:15 **Metabolomics in Cardiometabolic Disease: Form and Function**
Svati H. Shah, MD, MHS, FACC, FAHA, ASCI (Duke School of Medicine)
- 3:20 – 3:50 *Afternoon Break* *Jefferson Ballroom Foyer*

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Session B3: The Translational Intersection	<i>Jefferson Ballroom</i>
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3:50 – 5:10 *Moderator: Jerome Rotter, MD*

3:50 – 4:05 **From SNPs to iPSCs to Function and Targets**
Ulrich Broeckel, MD (Medical College of Wisconsin)

4:10 – 4:25 **Genes to Therapeutics**
Ingrid B. Borecki, PhD (Regeneron Genetics Center)

4:30 – 4:45 **How Big Pharma is Using Human Genetics to Drive Drug Discovery**
Caroline Fox, MD, MPH (Merck Research Laboratories)

4:50 – 5:05 **The Regulatory Landscape: Genetics, Drug Development/Regulation, and the Food and Drug Administration**
Robert J. Meyer, MD (University of Virginia)

Poster Session / Reception	<i>Lobby Atrium</i>
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5:15 – 7:00 Hors d'oeuvres and cash bar

Group Dinner

7:15 *Orzo Kitchen & Wine Bar*
416 West Main Street (~3 blocks from Omni)
(434) 975-6796
<http://orzokitchen.com/>

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Thursday, September 29th

7:30 – 5:00 Registration *Jefferson Ballroom Foyer*

7:30 – 9:00 Light breakfast *Jefferson Ballroom Foyer*

Session C1:	Beyond the Common SNP	<i>Jefferson Ballroom</i>
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9:00 – 10:30 *Moderator: Cornelia van Duijn, PhD*

9:00 – 9:10 **Novel coding variants in PLCG2, ABI3 and TREM2 associate with Alzheimer’s disease implicating innate immunity pathways**
Sven J. van der Lee^{***} (Erasmus Medical Center)

9:15 – 9:25 **Integration of whole genome sequence and epigenomic data highlights regulatory activity in the genomic architecture of glycemic traits**
Samantha Lent, MA^{***} (Boston University)

9:30 – 9:45 **From GWAS to Functional Regulatory Variants**
Timothy Reddy, PhD (Duke Center for Genomic and Computational Biology)

9:50 – 10:05 **Epigenetic biomarkers of biological aging**
Steve Horvath, PhD, ScD (University of California, LA)

10:10 – 10:25 **VA Million Veteran Project**
Christopher J. O’Donnell, MD, MPH (Boston VA)

10:30 – 11:00 *Morning Break* *Jefferson Ballroom Foyer*

Session C2:	Are We There Yet? WG Presentations	<i>Jefferson Ballroom</i>
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11:00 – 12:00 *Moderator: L. Adrienne Cupples, PhD*

11:00 – 11:10 **fastSKAT: Sequence kernel association tests for large sets of markers and applications for analyzing LDL cholesterol in whole-genome sequencing data**
Thomas Lumley, PhD (University of Auckland)

11:15 – 11:25 **Whole-genome analysis of blood pressure using the CHARGE Analysis Commons**
Elena V. Feofanova, MS^{***} (University of Texas Health Sciences Center)

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Session C2 continued:

11:30 – 11:40 **Whole Exome Sequence analysis refines understanding of height-associated loci**

Virginia Fisher, MA*** (Boston University)

11:45 – 11:55 **Integrative genomic approach identifies molecular subtypes of type 2 diabetes**

Jennifer Wessel, PhD, MPH*** (Indiana University)

Awards Ceremony	<i>Jefferson Ballroom</i>
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12:00 – 12:15

Closing Remarks	<i>Jefferson Ballroom</i>
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12:15 – 12:20 Stephen S. Rich, PhD (Center for Public Health Genomics, University of Virginia)

Lunch Buffet	<i>Lobby Atrium</i>
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12:20 – 1:30

Session D:	Individual Working Group Meetings	
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1:30 – 2:30	DM/GLY (J. Meigs)	<i>Salon A</i>
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	Analysis (A. Cupples/K. Rice)	<i>Salon B</i>
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	Neuro-Stroke (S. Seshadri)	<i>Salon C</i>
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2:30 – 3:30	Epigenetics (M. Fornage)	<i>Salon A</i>
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	OPEN	<i>Salon B</i>
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	Neuro Cohorts Consortium (S. Seshadri)	<i>Salon C</i>
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<i>3:00 – 3:30</i>	<i>Afternoon Break</i>	<i>Jefferson Ballroom Lobby</i>
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3:30 – 4:30	Analysis Commons Steering Committee	<i>Salon A</i>
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	OPEN	<i>Salon B</i>
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	OPEN	<i>Salon C</i>
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*** Indicates travel grant awardee