

MAY 30 AND 31, 2017 @ HARVARD T.H. CHAN SCHOOL OF PUBLIC HEALTH, BOSTON, MA

Omics: Advances, Applications, and Translation in Nutrition and Epidemiology- 3rd ANNUAL SYMPOSIUM

Bringing together experts in emerging omics technologies and techniques, with an emphasis on recent advances, applications in population-based research, integration with nutrition, and translational applications.

VENUE: Kresge G2, Harvard T.H. Chan School of Public Health, 667 Huntington Avenue, Boston

Co-chaired by Frank Hu and Miguel A. Martínez-González

Tuesday, May 30, 2017

9:00–9:15	<u>Overview of program, introduction to systems epidemiology</u> Frank Hu, MD, PhD, Chair, Dpt. Nutrition, Harvard T.H. Chan School of Public Health
9:15–9:45	<u>Novel findings in genomics/metabolomics in the ARIC Study</u> Eric Boerwinkle, PhD, Baylor College of Medicine, Houston
9:45–10:15	<u>The Women’s Genome Health Study (WGHS): Recent progress and opportunities in the genetic epidemiology of aging</u> Daniel Chasman, MD, PhD, Brigham and Women’s Hospital
10:15–10:45	<u>Precision nutrition for obesity management based on omics</u> J Alfredo Martínez, MD PhD, Universidad de Navarra (Pamplona, Spain)
10:45–11:15	Coffee break
11:15–11:45	<u>Genetic variation on T2D traits</u> James B Meigs, MD, PhD, Massachusetts General Hospital
11:45–12:15	<u>Metabolomics and other omics of diabetes</u> Thomas J Wang, PhD, Vanderbilt University Medical Center
12:15–12:45	<u>Genes, Lifestyle, and Coronary Artery Disease</u> Amit Khera, MD, Massachusetts General Hospital
12:45–1:45	Speaker luncheon
1:45–2:15	<u>Mediterranean diet, olive oil and HDL functionality in the PREDIMED trial</u> Montse Fitó, PhD, IMIM, (Barcelona, Spain)
2:15–2:45	<u>Effects of polyphenol intake on cardiovascular risk markers</u> Rosa M Lamuela-Raventós, PhD, University of Barcelona, (Barcelona, Spain)
2:45–3:15	<u>Novel findings in metabolomics in the PREDIMED Study</u> Miguel A. Martínez-González, MD, PhD, MPH, Univ. Navarra, (Pamplona, Spain)
3:15–3:45	Coffee break
3:45–4:15	<u>Integrative Genomics in the Framingham Heart Study</u> Daniel Levy, MD, PhD, NHLBI
4:15–4:45	<u>New advances in gut microbiota and health outcomes</u> Curtis Huttenhower, PhD, MS, Harvard TH Chan School of Public Health
4:45–5:00	<u>Day 1 closing remarks</u>

Wednesday, May 31, 2017

Metabolomics in the PREDIMED: Latest Research

8:30–8:45	Welcome, overview of second day program Frank Hu, MD, PhD, Harvard T.H. Chan School of Public Health
8:45–9:30	<u>Overview/Summary of current status of CVD and T2D metabolomics projects in the PREDIMED</u> Miguel A. Martínez-González, MD, PhD, MPH, Univ. Navarra (Pamplona, Spain)
9:30–10:00	<u>Latest findings of PREDIMED and PREDIMED PLUS</u> Jordi Salas-Salvadó, MD, PhD, Universitat Rovira i Virgili (Reus, Spain)
10:00–10:30	<u>Methods on metabolic profiling on CVD and T2D projects / other new studies</u> Clary Clish, PhD, The Broad Institute of MIT and Harvard
10:30–10:50	Coffee break
10:50–11:20	<u>BCAA and T2D in the PREDIMED Study / preliminary data of the T2D metabolomics project</u> Miguel Ruiz-Canela, PhD, Universidad de Navarra
11:20–11:40	<u>Lipidomics and CVD / Preliminary data of the T2D project</u> Estefanía Toledo, PhD, Universidad de Navarra (Pamplona, Spain)
11:40–12:00	<u>Lipidomics (PCA analysis and scores)</u> Cristina Razquin, PhD, Universidad of Navarra (Pamplona, Spain)
12:00–1:00	Speaker luncheon
1:00–1:30	<u>Lipid network analysis/ Bile acids and CVD</u> Daniel Wang, MD, Harvard T.H. Chan School of Public Health
1:30–1:50	<u>Untargeted metabolomics in the PREDIMED</u> Yan Zheng, PhD, Harvard T.H. Chan School of Public Health
1:50–2:20	<u>Choline and proline pathways and CVD / Acylcarnitines and T2D in T2D metabolomics project</u> Marta Guasch-Ferré, MD PhD, Harvard T.H. Chan School of Public Health
2:20–2:40	<u>Tryptophan/urea cycle metabolites</u> Edward Yu, Harvard T.H. Chan School of Public Health
2:40–3:00	Coffee break
3:00–3:30	<u>Methods to analyze metabolomics data and novel statistical approaches. Metabolomic footprints of the 14-point PREDIMED MedDiet score</u> Liming Liang, Harvard T.H. Chan School of Public Health
3:30–3:50	<u>Metabolomic footprints of the Mediterranean diet: the effect of the randomized PREDIMED intervention</u>

Cristina Razquin, PhD, Universidad of Navarra (Pamplona, Spain)

3:50–4:10

Metabolite predictors of food groups

Mònica Bullo, PhD, Universitat Rovira i Virgili (alternatively, Christopher Papandreou) (Reus, Spain)

4:10–4:50

Competing renewal of the T2D grant

Miguel A. Martínez-González / Frank Hu

4:50–5:00

Conference closing remarks

Frank Hu, MD, PhD, Harvard T.H. Chan School of Public Health
