

2023 HDL Workshop – Infection and Neurodegenerative Diseases

Co-Hosted by Dr. Anna Schwendeman and Dr. Anand Rohatgi

Marriott Copley Place Hotel, Boston, MA, USA

May 13-14, 2023

HDL and Brain Lipid Metabolism in Alzheimer's Disease

Francesca Zimetti, PhD (Associate Professor of Pharmacology, University of Parma, Italy)

Invited speaker



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Agenda

The HDL Workshop provides an opportunity for researchers in the HDL community to discuss the latest developments in the field. This highly interactive international forum features short talks and stimulating discussions among the attendees and speakers.

Day 1: May 13, 2023

1:30 PM–1:35 PM

Welcome and Introduction

Anna Schwendeman, PhD (Professor Pharmaceutical Sciences, University of Michigan)

Co-Chair

Anand Rohatgi, MD, MSCS, FACC, FAHA (Professor of Medicine, Internal Medicine, Division of Cardiology, University of Texas Southwestern Medical Center)

Co-Chair

1:35 PM–2:10 PM

The Role of CETP and HDL in Sepsis

Liam Brunham, M.D., Ph.D., F.R.C.P.C., F.A.C.P., F.N.L.A. (Associate Professor and Canada Research Chair, University of British Columbia and Medical Lead, Healthy Heart Program Prevention Clinic, St. Paul's Hospital)

2:10 PM–2:45 PM

The Crosstalk Between HIV and HDL

Theodoros Kelesidis, MD, PhD (Associate Professor Of Medicine, University of California, Los Angeles)

2:45 PM–3:00 PM

Early Career Abstract Presentation: Novel Human Variants of SR-B1 Impact HDL-Cholesterol Clearance

Hayley Powers, PhD (Graduate Student Research Assistant and MSTP Student, Medical College of Wisconsin)

3:00 PM–3:15 PM

Early Career Abstract Presentation: Fluorescent Lipoprotein Profiling Reveals Unique Lipoproteins Populations In Human Bronchoalveolar Lavage Fluid

Snigdha Sarkar, PhD (Postdoctoral Research Associate, Integrative Omics Group, Pacific Northwest National Laboratory)

3:15 PM–3:30 PM

Coffee Break

3:30 PM–4:05 PM

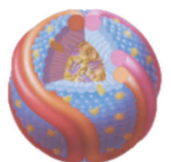
HDL and SARS-COV19

Nicolas Vuilleumier, PhD (Associate Professor, Head Physician, Laboratory Medicine Division, Geneva University)

4:05 PM–4:40 PM

Enhancement of HDL functionality by Raydel Policosanol and Anti-Inflammatory Peptide CIGB-258

Kyung-Hyun Cho, PhD (Head, Raydel Research Institute)



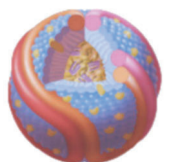
HW HDL WORKSHOP

- 4:40 PM–5:15 PM **Exploring the Potential Non-Cardiovascular Benefits of CETP Inhibition**
Michael Davidson, MD (CEO, NewAmsterdam Pharma & Professor of Medicine, Director of the Lipid Clinic, University of Chicago Pritzker School of Medicine)
- 5:15 PM–5:50 PM **Jack Oram Award Winner and Keynote Lecturer**
Kerry-Anne Rye, PhD (Deputy Head of Research, School of Biomedical Sciences, University of New South Wales)
- 5:50 PM–8:00 PM **Poster Presentations and Happy Hour**

Day 2: May 14, 2023

- 8:00 AM–8:30 AM **HDL Metabolism in Health and Disease - Lessons from HDL Particle Analysis**
Ernst Schaefer, MD (Professor and Chief Medical Officer, Tufts University and Lab Director, Boston Heart Diagnostics)
- 8:30 AM–9:05 AM **HDL and Brain Lipid Metabolism in Alzheimer’s Disease**
Francesca Zimetti, PhD Associate Professor of Pharmacology, University of Parma, Italy)
- 9:05 AM–9:40 AM **HDL, ApoA-I/II and Neuroprotection in Multiple Sclerosis**
Ramanathan Murali, PhD (Professor of Pharmaceutical Sciences and Neurology, University of Buffalo, the State College of New York)
- 9:40 AM–9:55 AM **Early Career Abstract Presentation: Novel Application of DAD-MALS-DLS-dRI Detectors for HDL Particle Analysis Following UC-SEC Separation to Measure Size, Composition, Particle Count, and dn/dc Values of HDL Particle Subtypes**
Joanne Agus, BS (PhD Candidate, Zivkovic Lab, University of California, Davis)
- 9:55 AM–10:10 AM **Early Career Abstract Presentation: Proteomic Characterization of Human Brain Lipoproteins Speciated by Size Exclusion Chromatography**
Nathaniel Merrill, PhD (Post-Doc Researcher, Pacific Northwest National Laboratory)
- 10:10 AM–10:35 AM *Coffee Break*
- 10:35 AM–11:10 AM **HDL Function and Composition in Alzheimer’s by ApoE Genotype**
Angela Zivkovic, PhD (Associate Professor, Department of Nutrition, University of California, Davis)
- 11:10 AM–11:45 AM **Update on Clinical Development and Mechanism of Action of CSL112**
Svetlana Diditchenko, PhD (Principal Scientist, CSL Behring)
- 11:45 AM–12:00 PM **Closing Remarks and Feedback**
Anna Schwendeman, PhD (Professor Pharmaceutical Sciences, University of Michigan)
Co-Chair

Anand Rohatgi, MD, MSCS, FACC, FAHA (Professor of Medicine, Internal Medicine, Division of Cardiology, University of Texas Southwestern Medical Center)
Co-Chair



Poster Submissions

- **Apolipoprotein E-Containing HDL Enhance Survival of Effector Memory Regulatory T Lymphocytes by Regulating Caspase-Dependent Apoptosis**
Laura Atehortua Castro, MS (PhD Candidate, University of Cincinnati College of Medicine, Cincinnati Children's Hospital Medical Center)
- **Interaction of Amyloid Beta Peptide With Human Cerebrospinal Fluid Lipoproteins**
Ivo Diaz Ludovico, PhD (Post-Doctoral Research Associate, Integrative Omics, Pacific Northwest National Laboratory)
- **Trypanosome Lytic Factor 3: A Nascent High-Density Lipoprotein that Lyses African Trypanosomes**
Sara Fresard, BS (PhD Candidate, The City University of New York (CUNY), CUNY Hunter College)
- **High-Density Lipoprotein-Based Gene-Silencing Nanoplatfom for Therapy of Liver Cancer**
Aliaksei Ihnatsyeu-Kachan, MSc (Student Researcher, Korea Institute of Science and Technology)
- **Structure Function Analysis of Guinea Pig and Human Apolipoprotein E to Obtain Insight into their Role in Cardiovascular Disease**
George Celis, B.S. (M.S. Graduate Student, Biochemistry, California State University, Long Beach)
- **HDL Apolipoproteomic Score, Cardiometabolic Risk, and Exercise Training**
Mark Sarzynski, PhD, FAHA, FACSM (Associate Professor, Exercise Science, University of South Carolina)
- **FFAR4 Regulates Macrophage Metabolism and Foam Cell Formation**
Gage Stuttgen, BS (Graduate Student, Biochemistry, Medical College of Wisconsin)
- **Short-Term Whole Grain Rice Diet Triggered Plasma HTGL Reduction and Increased HDL-C in Healthy Volunteers**
Maki Tsujita, PhD, FAHA (Associate Professor, Nagoya City University Graduate School of Medicine)

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