



Vascular Discovery: From Genes to Medicine 2022

Program at a Glance

	Wednesday May 11, 2022	Thursday May 12, 2022	Friday May 13, 2022	Saturday May 14, 2022	
7:00		Registration, Breakfast, Exhibits	Registration, Breakfast, Exhibits		
7:30		Early Career Training Session 1	Early Career Training Session 2		
8:00	8:00 -6:00 Vascular Research Initiatives Conference <i>Separate registration required</i>	8:00-10:00 Conference Opening and Plenary Session 1 Cardiovascular Health Disparities	8:00-9:30 Plenary Session 3 Shape Shifters in the Vasculature: Cell Identity in Vascular Disease	8:30-10:30 Poster Session 3 and Continental Breakfast	
8:30					
9:00			9:30-10:00 Break/Exhibits		
9:30					
10:00			10:00-10:30 Break/Exhibits	10:00-11:45 Concurrent Session 3	
10:30			10:30-12:15 Concurrent Session 1 a: Molecular and Cellular Mechanisms of Atherosclerosis b: Molecular, Developmental and Cellular Biology of the Vessel Wall c: Translational Science in Vascular Medicine: Emerging Research in COVID-related Thrombosis	a: Therapeutic Targets in Atherosclerosis b: Vascular Effects of Antithrombotic Therapy c: Health Disparities in Peripheral Vascular Disease	10:30-Noon Plenary Session 6 Invited Lecture Series Hoeg Award Lecture Keynote Lecture Distinguished Lecture
11:00					
11:30			12:15-2:00 The Mentor of Women Award Luncheon 12:15-2:00 PVD Annual Business Meeting and Networking Luncheon 12:15-2:15 Or lunch on your own	12:00-12:30 Learning Studio Sponsored by Janssen Pharmaceuticals, Inc.	NOON Closing Remarks / Adjourn
12:00					
12:30				12:15-1:45 Career Development Session: Overcoming Obstacles to Achieve Success 11:45-1:45 Or lunch on your own	1:00-7:00 pm HDL Structure-Function Workshop <i>Separate registration required</i>
1:00					
1:30					
2:00			2:15-3:45 Plenary Session 2 Highlights from the <i>ATVB</i> Journal	1:45-2:45 Plenary Session 4 Irvine H. Page Junior Faculty Research Award Competition	
2:30				2:45-3:45 Plenary Session 5 Hot Off the Bench Oral Abstract Presentations	
3:00	3:00-6:00 Vascular Discovery Registration Opens		3:45-4:15 Break/Exhibits		
3:30			4:15-6:00 Concurrent Session 4 a: Metabolic Disorders and Atherosclerosis b: Platelet Production, Signaling and Function c: Polygenic Risk Scores for Risk Stratification: Pro - A Transformative Advance vs Con - A Modest Improvement		
4:00			4:15-6:00 Concurrent Session 2 a: Apolipoproteins, Lipoproteins and Lipid Metabolism b: Vascular Cells, Inflammation and Thrombosis c: Up and Coming Science from the AHA Career Development Awardees		
4:30			6:00-8:00 Poster Session 1 and Reception <i>Sponsored by the ATVB Journal</i>	6:00-8:00 Poster Session 2 and Reception	
5:00					
5:30					
6:00			8:00-10:30 Council Dinner		
6:30					
7:00					
7:30					
8:00					
8:30					
9:00					

The American Heart Association gratefully acknowledges the following companies for their generous support of the Vascular Discovery Scientific Sessions:

AstraZeneca for its support of the educational program

ATVB Journal

European Vascular Biology Organization

Janssen Pharmaceuticals, Inc.

National Heart, Lung, and Blood Institute

The following AHA Scientific Councils

Arteriosclerosis, Thrombosis and Vascular Biology

Peripheral Vascular Disease

Genomic and Precision Medicine

Exhibits will be and open during the registration hours, breaks and lunch. This year we welcome:

DiaPharma Group

Janssen Pharmaceuticals, Inc.

Precigen Exemplar

Joint Accreditation Statements



In support of improving patient care, this activity has been planned and implemented by the American Heart Association. The American Heart Association is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

AMA Credit Designation Statement – Physicians

The American Heart Association designates this live activity for a maximum of 18.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AAPA Credit Acceptance Statement – Physician Assistants

AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit™* from organizations accredited by ACCME or a recognized state medical society. Physician assistants may receive a maximum of 18.0 hours of Category I credit for completing this program.

AANP Credit Acceptance Statement – Nurse Practitioners

American Academy of Nurse Practitioners (AANP) accepts *AMA PRA Category 1 Credit™* from organizations accredited by the ACCME.

***AMA Credit must be claimed within 6 months of attendance. Credit will no longer be available to claim after November 14, 2022.*

Disclosure Policy

All persons in a position to control educational content of a CE activity provided by the American Heart Association must disclose to the audience all financial relationships with ineligible companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. The presence or absence of all financial relationships will be disclosed to the audience in activity materials. All unlabeled/unapproved uses of drugs or devices discussed will also be disclosed to the audience. All relevant financial relationships have been mitigated prior to the commencement of the activity.

Room Locator

Wednesday, May 11

Exhibits	Grand Ballroom Foyer.....	2nd Floor
Registration	Grand Ballroom Foyer.....	2nd Floor
Speaker Resource Room	Spruce	2nd Floor
Vascular Research Initiatives Conference 2022 (Separate registration required)	Willow AB	2nd Floor

Thursday, May 12

Continental Breakfast	Grand Ballroom Foyer.....	2 nd Floor
Concurrent Session A.....	Metropolitan Ballroom A.....	3 rd Floor
Concurrent Session B.....	Metropolitan Ballroom B.....	3 rd Floor
Concurrent Session C.....	Grand Ballroom D	2 nd Floor
Early Career Training.....	Grand Ballroom D	2 nd Floor
Exhibits	Grand Ballroom Foyer.....	2 nd Floor
Mentor of Women Luncheon (ticket required)	Cirrus Ballroom	38 th Floor
Plenary Sessions	Metropolitan Ballroom AB	3 rd Floor
Poster Session and Reception	Grand Ballroom ABC	2 nd Floor
PVD Annual Business Meeting and Networking Luncheon	Redwood AB.....	2 nd Floor
Refreshments Breaks	Grand Ballroom Foyer.....	2 nd Floor
Registration.....	Grand Ballroom Foyer.....	2 nd Floor
Speaker Resource Room	Spruce	3 rd Floor

Friday, May 13

Career Development Session	Redwood AB.....	2 nd Floor
Continental Breakfast	Grand Ballroom Foyer.....	2 nd Floor
Concurrent Session A.....	Metropolitan Ballroom A.....	3 rd Floor
Concurrent Session B.....	Metropolitan Ballroom B.....	3 rd Floor
Concurrent Session C.....	Grand Ballroom D	2 nd Floor
Early Career Training.....	Grand Ballroom D	2 nd Floor
Exhibits	Grand Ballroom Foyer.....	2 nd Floor
Learning Studio.....	Grand Ballroom D	2 nd Floor
Sponsored by Janssen Pharmaceuticals, Inc		
Plenary Sessions	Metropolitan Ballroom AB	3 rd Floor
Poster Session and Reception	Grand Ballroom ABC	2 nd Floor
Refreshments Breaks	Grand Ballroom Foyer.....	2 nd Floor
Registration.....	Grand Ballroom Foyer.....	2 nd Floor
Speaker Resource Room	Spruce	3 rd Floor

Saturday, May 14

Continental Breakfast	Grand Ballroom ABC	2 nd Floor
Plenary Session.....	Metropolitan Ballroom AB	3 rd Floor
Poster Session	Grand Ballroom ABC	2 nd Floor
Registration.....	Grand Ballroom Foyer.....	2 nd Floor
Speaker Resource Room	Spruce	3 rd Floor
HDL Workshop (separate registration required)	Willow AB	2 nd Floor

Final Program Agenda

Wednesday, May 11

3:00 – 6:00 pm

Vascular Discovery 2022 Registration Opens

Grand Ballroom Foyer, 2nd Floor

8:00 am – 7:00 pm

Vascular Research Initiatives Conference

Willow AB, 2nd Floor

Sponsored by the Society for Vascular Surgery

Separate registration fee is required to attend

This conference is not part of the education activities for Vascular Discovery 2022

Thursday, May 12

7:00 – 8:00 am

Registration/Refreshments/Coffee/Exhibits

Grand Ballroom Foyer, 2nd Floor

7:00 – 8:00 am

Early Career Training Session 1: Round Table Discussions

Grand Ballroom D, 2nd Floor

Learn tips and tricks from the members of the ATVB Early Career Committee (ECC). Each table has a theme, but in this informal setting, individuals may hop around and join the discussions at several tables. Come ready to ask your questions and socialize with members of the ATVB ECC and your trainee colleagues.

Moderators:

Robert C. Bauer, PhD, Columbia University Medical Center

Cynthia St. Hilaire PhD, FAHA, University of Pittsburgh

Getting Your Training Grant Funded

Bishuang Cai, PhD, Icahn School of Medicine at Mount Sinai

Brian Kim, MD, Stanford University

Saying No and Difficult Conversations

Cynthia St. Hilaire PhD, FAHA, University of Pittsburgh

Jaume Amengual, PhD, University of Illinois

Setting Up Your Lab, Hiring, and Switching Universities

Robert C. Bauer, PhD, Columbia University Medical Center

Thomas Vallim, PhD, FAHA, University of California Los Angeles

The Importance of Mentoring and Being Mentored

Casey E. Romanoski, PhD, University of Arizona

Mabruka Alfaidi, MD, PhD, LSU health Science Center-Shreveport

Work-Life Integration

Milka Koupenova, PhD, University of Massachusetts Medical School

Roberto Mota Alvidrez, MD, MS, University of Pittsburgh

Strategies for Project Management

Mireille Ouimet, PhD, University of Ottawa

Alison Kohan, PhD, University of Pittsburgh

8:00 – 8:30 am

Conference Opening Welcome

Metropolitan Ballroom AB, 3rd Floor

Donald M. Lloyd-Jones, MD, ScM, FAHA, President, American Heart Association

Katey Rayner, PhD, FAHA, Chair, Vascular Discovery 2022 Program Committee

8:30 – 10:00 am

Plenary Session 1: Cardiovascular Health Disparities

Metropolitan Ballroom AB, 3rd Floor

Moderators:

Kathleen A. Martin, PhD, Yale University School of Medicine

Katey Rayner, PhD, FAHA, University of Ottawa Heart Institute

8:30 Adversity and Cardiovascular Disease: Sociobiological Mechanisms and Precision Health Interventions

Michelle A. Albert, MD, MPH, AHA President-elect, University of California, San Francisco

9:00 Whole Genome Sequence Analysis of the Plasma Proteome and Metabolome in Black Adults: Insights Into Cardiovascular Disease

Robert E. Gerszten, MD, Beth Israel Deaconess Medical Center, Harvard Medical School

9:30 Large Artery Remodeling in Sickle Cell Disease

Manu O. Platt, PhD, Georgia Tech and Emory University

10:00 – 10:30 am

Refreshments/Coffee/Exhibits

Grand Ballroom Foyer, 2nd Floor

10:30 am – 12:15 pm

Concurrent Session 1a: Molecular and Cellular Mechanisms of Atherosclerosis

Organized in cooperation with the European Vascular Biology Organization (EVBO)

Metropolitan Ballroom A, 3rd Floor

Moderators:

Liwu Li, PhD, Virginia Tech Carilion School of Medicine

Nalini Santanam, PhD, Marshall University of Medicine

10:30 Innate Leukocyte Memory and Programming Dynamics in Atherosclerosis

Liwu Li, PhD, Virginia Tech Carilion School of Medicine

Oral Abstract Presentations

- 11:00 Presentation # 101
Genetic Ablation of CCDC92 Protects Against Vascular Inflammation and Atherosclerosis
Wa Du, Dan Song, Lu Ren, Dept of Cancer Biology, Univ of Cincinnati Coll of Med, Cincinnati, OH; Richard C Becker, Dept of Internal Med, Div of Cardiovascular Health and Disease, Univ of Cincinnati Coll of Med, Cincinnati, OH; Yanbo Fan, Dept of Cancer Biology, Univ of Cincinnati Coll of Med, Cincinnati, OH
- 11:15 Presentation # 102
Autophagy Is Differentially Regulated in Leukocyte and Nonleukocyte Foam Cells During Atherosclerosis
Sabrina Robichaud, Adil Rasheed, Ottawa Heart Inst, Ottawa, ON, Canada; Antonietta Pietrangelo, Anne Kim, Univ of Ottawa Heart Inst, Ottawa, ON, Canada; Dominique Boucher, UOttawa Heart Inst, Ottawa, ON, Canada; Chrissy Emerton, Univ Ottawa Heart Inst, Ottawa, ON, Canada; Vijashini Vijithakumar, Univ of Ottawa, Ottawa, ON, Canada; Lara Gharibeh, UNIV OF OTTAWA HEART INSTITUTE, Ottawa, ON, Canada; Garrett Fairman, Esther Mak, UNIV OF OTTAWA HEART INSTITUTE, Ottawa, ON, Canada, Ottawa, ON, Canada; My-anh Nguyen, UOTTAWA HEART INSTITUTE, Ottawa, ON, Canada; Michele Geoffrion, UOTTAWA HEART INSTITUTE, Ottawa, ON, Canada, Ottawa, ON, Canada; Robert Wirka, UOTTAWA HEART INSTITUTE, Ottawa, ON, Canada, Ottawa, ON, Canada, Chapel Hill, NC; Katey J Rayner, UNIV OTTAWA HEART INST, Ottawa, ON, Canada; Mireille I Ouimet, Univ of Ottawa, Ottawa, ON, Canada
- 11:30 Presentation # 103
Cycling Of Plasma Cholesterol Increases the Rate of Atherosclerosis Progression and Alters the Chromatin Landscape of Bone Marrow Monocytes
Bianca Scolaro, NYU Sch of Med, New York, NY; Ada Weinstock, NYU SCHOOL OF MEDICINE, New York, NY; Ozlem Kireccibasi, NYU Sch of Med, New York, NY; Emily Brown, Edward Fisher, NYU Grossman Sch of Med, New York, NY
- 11:45 Presentation # 104
R952Q Mutation in ApoE Receptor-2 Exacerbates Hypercholesterolemia and Accelerates Atherosclerosis Progression in Ldl Receptor-knockout Mice
Vanessa M Turkson, April Haller, Anja Jaeschke, David Hui, Univ of Cincinnati, Cincinnati, OH
- 12:00 Presentation # 105
Proprotein Convertase Subtilisin/kexin Type 6 (Pcsk6) Plays A Role in Angiogenesis Regulation
Melody Chemaly, Xinran Dong, Karolinska Instt, Solna, Sweden; Bianca E Suur, Karolinska Inst, Stockholm, Sweden; Hong Jin, Karolinska Univ Hosp, Stockholm, Sweden; Anders Malarstig, Karolinska Inst, Stockholm, Sweden; Ljubica Matic, Karolinska Inst, Solna, Stockholm, Sweden

10:30 am – 12:15 pm

Concurrent Session 1b: Molecular, Developmental and Cellular Biology of the Vessel Wall
Metropolitan Ballroom B, 3rd Floor

Moderators:

Jiliang Zhou, MD, PhD, Medical College of Georgia, Augusta University

Kathryn Howe, MD, PhD, FRCPC, University of Toronto

10:30 Discovery of the Smooth Muscle-specific Long Non-coding RNA CARMN
Jiliang Zhou, MD, PhD, Medical College of Georgia, Augusta University

Oral Abstract Presentations

11:00 Presentation # 106
Ribosomal Protein Rpl17 Controls Endothelial Cell Translation: A Key Mediator of Intima Growth and Vascular Disease

Sayantani Chowdhury, Univ of Rochester Aab CVRI, Rochester, NY; Mary Wines-Samuelson, Univ of Rochester Med Ctr, Rochester, NY; Bradford C Berk, UNIVERSITY OF ROCHESTER, Rochester, NY

11:15 Presentation # 107
A Human Arterial Cell Atlas

Paul Cheng, STANFORD UNIVERSITY, Stanford, CA; Albert J Pedroza, STANFORD UNIVERSITY, Santa Clara, CA; Disha Sharma, Stanford Univ, Stanford, CA; Chad Weldy, Stanford Univ Hosp, Palo Alto, CA; Yana Ryan, STANFORD UNIVERSITY, Stanford, CA; Trieu Nguyen, Stanford Univ, Stanford, CA; lakshman sundaram, Stanford Univ, hayward, CA; Alex Dalal, Stanford university, STANFORD, CA; Rohan Shad, Stanford Univ, Palo Alto, CA; Hyun-Jung Kim, Stanford Univ, Stanford, CA; Huitong Shi, Stanford university, STANFORD, CA; Ramendra K Kundu, STANFORD UNIVERSITY, Palo Alto, CA; Anshul Kundaje, STANFORD UNIVERSITY, Palo Alto, CA, Palo Alto, CA; Juyong B Kim, Michael P Fischbein, STANFORD UNIVERSITY, Stanford, CA; Robert Wirka, Chapel Hill, NC; Thomas Quertermous, Stanford Univ, Stanford, CA

11:30 Presentation # 108
Mediator 1 Regulation of The BMP / TGF- β Signaling in Endothelium: Implications for Pulmonary Hypertension

Chen Wang, Yuanming Xing, Jiao Zhang, First Affiliated Hosp of Xi'an Jiaotong Univ, Xi'an, China; Ming He, La Jolla, CA; Zuyi Yuan, First Affiliated Hosp of Xi'an Jiaotong Univ, Xi'an, China; Jason X.-J. Yuan, Dept of Med, Univ of California, San Diego, La Jolla, CA; John Y-J. Shyy, Univ of California, San Diego, La Jolla, CA

11:45 Presentation # 109
The Chromatin Remodeling Protein Brg1 Regulates Adventitial Progenitor Cell Myofibroblast Differentiation and Pathological Vascular Remodeling

Austin Jolly, Sizhao Lu, Allison Dubner, Marie Mutryn, Natalie Navarro, Raphael Nemenoff, Mary CM Weiser-Evans, Univ of Colorado Anschutz, Aurora, CO

12:00 Presentation # 110
The Role of Sphingosine-1-Phosphate in The Reverse Transendothelial Migration of Aortic Intimal Myeloid Cells

Chanele K. Polenz, Corey A Scipione, Sharon Hyduk, Myron I Cybulsky, Univ Health Network, Toronto, ON, Canada

10:30 am – 12:15 pm

Concurrent Session 1c: Translational Science in Vascular Medicine: Emerging Research in COVID-related Thrombosis

Grand Ballroom C, 2nd Floor

Moderators:

Yogendra Kanthi, MD, NHLBI, National Institutes of Health

Milka Koupenova, PhD, University of Massachusetts Medical School

10:30 Thrombosis and Antithrombotic Therapy in COVID-19: From Bedside to Bench and Back Again

Jeffrey S. Berger, MD, MS, FAHA, FACC, New York University School of Medicine

Oral Abstract Presentations

11:10 Presentation # 111

Multiparametric Circulating Cardiovascular Biomarkers Elucidate a Molecular Signature of Coronavirus Disease 2019 Mortality and Identify Vascular Barrier Stabilizing Therapies

Dakota Gustafson, Michelle Ngai, Ruilin Wu, Univ Health Network, Toronto, ON, Canada; Huayun Hou, The Hosp For Sick Children, Toronto, ON, Canada; Clara Erice, Univ Health Network, Toronto, ON, Canada; Michael Wilson, The Hosp For Sick Children, Toronto, ON, Canada; Kevin Kain, Kate Hanneman, Paaladinesh Thavendiranathan, Jason Fish, Kathryn Howe, Univ Health Network, Toronto, ON, Canada

11:25 Presentation # 112

Sars-cov-2 Infection Promotes Dyslipidemia and Non-alcoholic Steatohepatitis in Diet-induced Obese Golden Syrian Hamsters

Francois Briand, PHYSIOGENEX, Escalquens, France; Valentin Sencio, Ctr for Infection and Immunity of Lille, Lille, France; Thierry SULPICE, PHYSIOGENEX, Labege Cedex, France; François Trottein, Ctr for Infection and Immunity of Lille, Lille, France

11:40 Presentation # 112

Novel Tissue Factor Inhibition for Thromboprophylaxis In COVID-19: Primary Results of the ASPEN-COVID-19 Phase 2b Randomized Trial

Connie N Hess, Mark R Nehler, Judith A Hsia, Univ of Colorado, Aurora, CO; Wolfram Ruf, SCRIPPS RESEARCH INSTITUTE, La Jolla, CA; David A Morrow, Brigham and Women's Hosp, Boston, MA; Jose Nicolau, InCor, Univ of São Paulo Medical Sch, Sao Paulo, Brazil; Otavio Berwanger, Hosp Israelita Albert Einstein, Sao Paulo, Brazil; Michael Szarek, Univ of Colorado, Aurora, CO; Warren Capell, Univ of Colorado, Aurora, CO, Aurora, CO; Shilpa Johri, Pulmonary Associates of Richmond, Inc, Richmond, VA; Michael Pursley, Infirmiry Health, Fairhope, AL; Ryan Gupta, Univ of Colorado, Aurora, CO; Debra Marshall, Christopher Graybill, Ian Carroll, Thomas Keuer, Michael Bristow, ARCA Biopharma, Westminster, CO; Marc P Bonaca, CPC Clinical Res, Aurora, CO

11:55 Presentation # 114

The Epigenetic Enzyme KMT2A/MLL1 Is a Driver of Coronavirus Associated Coagulopathy

Sriganesh B Sharma, William J Melvin, Christopher O Audu, Univ of Michigan, Ann Arbor, MI; Yogendra Kanthi, NHLBI, Natl Insts of Health, Bethesda, MD; Jason S Knight, Nicole

Rhoads, Reheeman Adili, Michael A Holinstat, Bethany B Moore, Peter K Henke, Thomas W Wakefield, Katherine A. Gallagher, Andrea T Obi, Univ of Michigan, Ann Arbor, MI

12:10 Q&A/Wrap-up

12:15 pm – 2:00 pm

Mentor of Women Networking Luncheon (ticket required to attend)

Lunch will be provided

Cirrus Ballroom, 38th Floor

Featured Presentation:

Academic Medicine: Career Truths, Recruitment and Retention of Diverse Groups

Michelle A. Albert, MD, MPH, AHA President-elect, University of California, San Francisco

Presentation of the 2022 Outstanding Mentorship of Women Award:

Daisy Sahoo, PhD, FAHA

Recognition of the finalists for the 2022 Emerging Scientist Award for Women. Finalists will present their abstracts during Poster Session 1.

Selma Elsarrag, PhD Presentation # 203

Shreya Gupta, MS Presentation # 204

Cadence Lee, BA, ScM Presentation # 205

Hayley Powers, BS Presentation # 206

Sabrina Robichaud, BSC Presentation # 207

12:15 – 2:00 pm

PVD Annual Business Meeting and Networking Luncheon (ticket required to attend)

Lunch will be provided

Redwood AB, 2nd Floor

12:15 – 2:15 PM

Or Lunch on your own

2:15 – 3:45 pm

Plenary Session 2: Highlights from the ATVB Journal

Metropolitan Ballroom AB, 3rd Floor

Moderators:

Ann Marie Schmidt, MD, NYU School of Medicine

Alan Daugherty, PhD, DSc, FAHA, University of Kentucky

Presentations by the 2022 ATVB Journal Early Career Investigator Award Recipients

- 2:15 Daniel Steinberg Early Career Investigator Award in Atherosclerosis/Lipoproteins
Resolvin D1 Enhances Necroptotic Cell Clearance Through Promoting Macrophage Fatty Acid Oxidation and Oxidative Phosphorylation
Gabrielle Fredman, PhD, Albany Medical College
- 2:30 Karl Link Early Career Investigator Award in Thrombosis
COVID-19 and Sepsis are Associated with Different Abnormalities in Plasma Procoagulant and Fibrinolytic Activity
Robert A. Campbell, PhD, University of Utah
- 2:45 Werner Risau Early Career Investigator Award in Vascular Biology
In vivo Characterisation of Endogenous Cardiovascular Extracellular Vesicles in Larval and Adult Zebrafish
Dr. Rebecca J. Richardson, PhD, University of Bristol
- 3:00 Featured Presentation: The ATVB Journal. Serving the Community for 40 Years
Alan Daugherty, PhD, DSc, FAHA, University of Kentucky

3:45 – 4:15 pm

Refreshments/Coffee/Exhibits

Grand Ballroom Foyer, 2nd Floor

4:15 – 6:00 pm

Concurrent Session 2a: Apolipoproteins, Lipoproteins and Lipid Metabolism

Metropolitan Ballroom A, 3rd Floor

Moderators:

Jordan Miller, PhD, Mayo Clinic

Gissette Reyes-Soffer, MD, Columbia University

- 4:15 Understanding the Role of Lipoprotein(a) in Cardiovascular Disease: ARE WE THERE YET?
Gissette Reyes-Soffer, MD, Columbia University

Oral Abstract Presentations

- 4:45 Presentation # 115
N-terminus Of ApoB Mediates Endothelial Cell Chylomicron Uptake
Ainara G Cabodevilla, New York Univ Langone Health, New York, NY; Narasimha Ananganti, New York Univ Long Island Sch of Med, Mineola, NY; Nada Abumrad, Washington Univ Sch of Med, St Louis, MO; Jose O. Aleman, New York Univ Langone Health, New York, NY; Mahmood M. Hussain, New York Univ Long Island Sch of Med, Mineola, NY; Ira J. Goldberg, New York Univ Langone Health, New York, NY
- 5:00 Presentation # 116
Angptl3 Regulates Hepatic Lipoprotein Production: A New Model for Lipid Lowering?
Kendall H Burks, Yan Xie, Santhi Pondugula, Thomas Neufeld, Arturo Alisio, Nicholas O. Davidson, Nathan O. Stitzel, Washington Univ in Saint Louis SOM, Saint Louis, MO

5:15 Presentation # 117
A Genome-wide CRISPR/Cas9 Knockout Screen Reveals New Targets to Increase Cellular LDL Uptake

Diego Lucero, Zahra Aligabi, Maumita Das, Jingrong Tang, NHLBI-NIH, Bethesda, MD; Boris Vaisman, NHLBI, Bethesda, MD; Alan T Remaley, NIH, Bethesda, MD

5:30 Presentation # 118
Cholesteryl Ester Transfer Protein Overrides the Protective Effect of APOA1 on Arterial APOB Lipoprotein Trapping and Atherosclerosis Progression In A Mouse Model Of Type 1 Diabetes

Vishal Kothari, Baohai Shao, Yi He, Farah Kramer, Shelley Barnhart, Jenny E Kanter, Alan Chait, Dept of Med, Div of Metabolism, Endocrinology and Nutrition, UW Med Diabetes Inst, Univ of Washington, Seattle, WA; Ira J Goldberg, Div of Endocrinology, Diabetes and Metabolism, Dept of Med, New York Univ Sch of Med, New York, NY; Edward A Fisher, Div of Cardiology, Dept of Med, New York Univ Sch of Med, New York, NY; Tomas Vaisar, Dept of Med, Div of Metabolism, Endocrinology and Nutrition, UW Med Diabetes Inst, Univ of Washington, Seattle, WA; Karin E Bornfeldt, Dept of Med, Div of Metabolism, Endocrinology and Nutrition, UW Med Diabetes Inst. Dept of Lab Med and Pathology, Univ of Washington, Seattle, WA

5:45 Presentation # 119
Into The Wormhole: Understanding SR-B1's Cholesterol Transport Functions Through Structural Studies

Hayley R Powers, Medical Coll of Wisconsin, Milwaukee, WI; Shawn Jenjak, Brian Volkman, Wauwatosa, WI; Daisy Sahoo, MEDICAL COLLEGE OF WISCONSIN, Milwaukee, WI

4:15 – 6:00 pm

Concurrent Session 2b: Vascular Cells, Inflammation and Thrombosis
Metropolitan Ballroom B, 3rd Floor

Moderators:

Scott J. Cameron, MD, PhD, RPVI, FACC, FSVM, Cleveland Clinic
Farouc A. Jaffer, MD, PhD, FACC, FAHA, Massachusetts General Hospital

4:15 Thrombo-olfaction: Cure Arterial Aneurysms Through Platelet Olfactory Receptors
Scott J. Cameron, MD, PhD, RPVI, FACC, FSVM, Cleveland Clinic

Oral Abstract Presentations

4:45 Presentation # 120
Vascular Endothelial Barrier Protection Prevents Atrial Fibrillation by Preserving Cardiac Nanostructure

Louisa Mezache, Andrew Soltisz, The Ohio State Univ, Columbus, OH; Scott R Johnstone, Virginia Tech, Roanoke, VA; Brant Isakson, Univ of Virginia, Charlottesville, VA; Rengasayee Veeraraghavan, The Ohio State Univ, Columbus, OH

5:00 Presentation # 121
Acetylsalicylic Acid Accelerates Murine Stasis Venous Thrombus Resolution, Independent of Sex

Aatira Vijay, Yoichiro Kawamura, Mohamad B Kassab, Adam Mauskapf, Massachusetts General Hosp & Harvard Medical Sch, Boston, MA; Khanh Q Ha, Jason McCarthy, Masonic Medical Res Inst, Utica, NY; Keith R McCrae, Cleveland Clinic, Cleveland, OH; Peter Henke,

University of Michigan, Ann Arbor, MI; Farouc A Jaffer, Massachusetts General Hosp & Harvard Medical Sch, Boston, MA

- 5:15 Presentation # 122
Rabeprazole Enhances Vascular Repair and Resolution of Sepsis-induced Lung Injury Through HIF1/FoxM1 Signaling

Colin E Evans, Northwestern Univ, Chicago, IL; Yi Peng, Northwestern University, Chicago, IL; Zhiyu Dai, Univ of Arizona, Phoenix, AZ; Xianming Zhang, Northwestern Univ, Chicago, IL; Youyang Zhao, Northwestern U-Lurie Children's Hosp, Chicago, IL

- 5:30 Presentation # 123
Genetic Deficiency of The Ectoenzyme CD73 Increases Neutrophil Extracellular Trap Formation in Patients With ACDC

Wyatt Becicka, Evan Garrad, Gil Berreby, Jintao Wang, Khanh Nghiem, Marcos Ramos-Benitez, Bretagne Cowling, Jaideep Moitra, NHLBI, Bethesda, MD; Rebecca Huffstutler, Katherine Carney, Natl Heart, Lungs, and Blood Inst, Bethesda, MD; Elisa Ferrante, Cornelia Cudrici, NHLBI, Bethesda, MD; Alessandra Brofferio, Benjamin Tourdot, Cincinnati Children's Hosp, Cincinnati, OH; Kenneth Jacobson, NIDDK, Bethesda, MD; Jason Knight, Univ of Michigan, Ann Arbor, MI; Yogendra Kanthi, NHLBI, Natl Insts of Health, Bethesda, MD; Manfred Boehm, NATIONAL INSTITUTE OF HEALTH, Bethesda, MD

- 5:45 Presentation # 124
Regulatory T Cells Suppress Aortic Aneurysm Growth in Mice Through Local Tissue Changes and Lymph Node Colonization

Jose Luis Lopez, Pei-Yu Lin, Sonali Shaligram, April Huang, Pierce Hadley, Qizhi Tang, Adam Oskowitz, Univ of California San Francisco, San Francisco, CA

4:15 – 6:00 pm

Concurrent Session 2c: Up and Coming Science from the AHA Career Development Awardees
Grand Ballroom C, 2nd Floor

Moderators:

Shashi Kant, PhD, Brigham and Women's Hospital
Genesio Karere, PhD, Wake Forest School of Medicine

- 4:15 The Conversion of Beta-carotene to Vitamin A Decreases Cholesterol in Humans and Delays Atherosclerosis Progression in Mice
Jaume Amengual, PhD, University of Illinois

- 4:40 Extracellular Matrix Regulation of Endothelial Differentiation
Ngan F. Huang, PhD, FAHA, Stanford University

- 5:05 Stress Kinase in Insulin Resistance and Cardiovascular Vascular Disease
Shashi Kant, PhD, Brigham and Women's Hospital

- 5:30 Potential microRNA Biomarkers and Networks That Underlie Early Atherosclerosis
Genesio Karere, PhD, Wake Forest School of Medicine

6:00 – 8:00 pm

Poster Session 1 and Reception
Sponsored by the ATVB Journal
Grand Ballroom ABC, 2nd Floor

Friday, May 13

7:00 – 8:00 am

Registration/Refreshments/Coffee/Exhibits
Grand Ballroom Foyer, 2nd Floor

7:00 – 8:00 am

Early Career Training Session 2 - CV and Cover Letter Workshop
Grand Ballroom D, 2nd Floor

The CV and cover letter are critical documents necessary at many career transition steps. Now that most of us on the ATVB ECC are on the receiving end of the documents, we have realized that while there is no one correct format for these documents, there are key pieces of information that need to be conveyed to the reader — i.e., your potential future boss. Join us for workshop focused on the tips and tricks on what makes or breaks your CV and cover letter, and an informal round table discussion setting to answer your specific questions. Feel free to bring a copy of your CV or cover letter!

Moderators:

Robert C. Bauer, PhD, Columbia University Medical Center
Cynthia St. Hilaire PhD, FAHA, University of Pittsburgh

Round Table Discussants

Bishuang Cai, PhD, Icahn School of Medicine at Mount Sinai
Brian Kim, MD, Stanford University
Jaume Amengual, PhD, University of Illinois
Robert C. Bauer, PhD, Columbia University Medical Center
Thomas Vallim, PhD, FAHA, University of California Los Angeles
Casey E. Romanoski, PhD, University of Arizona
Mabruka Alfaidi, MD/PhD, LSU Health Science Center-Shreveport
Milka Koupenova, PhD, University of Massachusetts Medical School
Roberto Mota Alvidrez, MD, University of Pittsburgh
Mireille Ouimet, PhD, University of Ottawa
Alison Kohan, PhD, University of Pittsburgh

8:00 – 9:30 am

Plenary Session 3: Shape Shifters in the Vasculature: Cell Identity in Vascular Disease
Metropolitan Ballroom AB, 3rd Floor

Moderators:

Lars Maegdefessel, MD, PhD, Technical University Munich
Mary G. Sorci-Thomas, PhD, Medical College of Wisconsin

8:00 Endothelial to Mesenchymal Transition and Endothelial Cell Plasticity in Vascular Disease
Jason C. Kovacic, MD, PhD, FAHA, Victor Chang Cardiac Research Institute, and Icahn School of Medicine at Mount Sinai

8:30 Platelet Heterogeneity: Rewriting a Story Without a Clot
John Hwa, MD, PhD, FRACP, Yale University School of Medicine

9:00 Epigenetic Control of Smooth Muscle Cell Lineage Identity
Delphine Gomez, PhD, University of Pittsburgh

9:30 – 10:00 am
Refreshments/Coffee/Exhibits
Grand Ballroom Foyer, 2nd Floor

10:00 – 11:45 am
Concurrent Session 3a: Therapeutic Targets in Atherosclerosis
Metropolitan Ballroom A, 3^d Floor

Moderators:
Claudia Monaco, MD, PhD, FESC, University of Oxford
Jun Yu, MD, FAHA, Temple University

9:30 Macrophage Functional Diversity in Atherosclerosis
Claudia Monaco, MD, PhD, FESC, University of Oxford, Oxford

Oral Abstract Presentations

10:30 Presentation # 125
Reversible Epigenome Editing of PCSK9 As A Therapeutic Strategy
Xiao Wang, Madelynn N Whittaker, Ishaan Jindal, Saúl V Cortez-Alvarado, Ping Qu, Kiran Musunuru, UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA

10:45 Presentation # 126
Susceptibility To Social Stress Modulates Hematopoiesis and Impairs Atherosclerosis Resolution
Ozlem Tufanli Kireccibasi, NYU Langone Health, New York, NY; Bianca Scolaro, NYU Sch of Med, New York, NY; Ada Weinstock, NYU Langone Health, New York, NY; Angelica Torres Berrio, Eric Parise, Flurin Cathomas, Kenny Chan, Eric Nestler, Scott Russo, Icahn Sch of Med Mount Sinai, NYC, NY; Edward Fisher, NYU Langone Health, New York NY

11:00 Presentation # 127
Single Cell RNAseq Reveals Pro-inflammatory, Cytolytic T Cells Characterize Complex Human Coronary Plaques
Annie Jensen, Stanford Univ, Stanford, CA; Stefan Veizades, Stanford, Stanford, CA; Alexandria Tso, Koki Sasagawa, Stanford Univ, Stanford, CA; Jessica D'Addabbo, St. Louis, MO; Xianxi Huang, The First Affiliated Hosp of Shantou Univ Medical Coll, Shantou, China; Yueh-hsiu Chien, Roshni Roy Chowdhury, Charles Chan, Mark Davis, Stanford Univ, Stanford, CA, Patricia Nguyen, Stanford Univ, Menlo Park, CA

11:15 Presentation # 128
A Chimeric Antigen Receptor Targeting MDA-LDL Activates Regulatory T Cells in The Presence of Human Atherosclerotic Plaque

Sonali Shaligram, UC, San Francisco, San Francisco, CA; Jose Luis Lopez, Pei-Yu Lin, Patrick Ho, UCSF, San Francisco, CA; April Huang, Qizhi Tang, Adam Z Oskowitz, UCSF, San Francisco, CA

11:30 Presentation # 129

The Epigenomic Landscape of Single Vascular Cells Reflects Developmental Origin and Identifies Disease Risk Loci

Chad S Weldy, Paul P Cheng, Div of Cardiovascular Med, Stanford Univ, Stanford, CA; Albert J Pedroza, Alex R Dalal, Dept of Cardiothoracic Surgery, Stanford Univ, Stanford, CA; Disha Sharma, Hyun-Jung Kim, Huitong Shi, Trieu Nguyen, Ramendra K Kundu, Div of Cardiovascular Med, Stanford Univ, Stanford, CA; Michael P Fischbein, Dept of Cardiothoracic Surgery, Stanford Univ, Stanford, CA; Thomas Quertermous, Div of Cardiovascular Med, Stanford Univ, Stanford, CA

10:00 – 11:45 am

Concurrent Session 3b: Vascular Effects of Antithrombotic Therapy
Metropolitan Ballroom B, 3rd Floor

Moderators:

Ngan Huang, PhD, FAHA, Stanford University

Phillip Owens, PhD, University of Cincinnati

10:00 The Evolving Role of Thrombosis and Antithrombotic Therapeutics in Abdominal Aortic Aneurysm

Phillip Owens, PhD, University of Cincinnati

Oral Abstract Presentations

10:30 Presentation # 130

Thymidine Phosphorylase Enhances Abdominal Aortic Aneurysm Formation in Mice

Liang Hong, Marshall Univ, SOM, Huntington, WV; Jian Zhuang, Guangdong Provincial People's Hosp, Guangdong Acad of Medical Sciences, Guangdong Cardiovascular Inst, Guangzhou, China; Hong Yue, Marshall Univ Joan C. Edwards, Huntington, WV; Xianwu Zhou, Guangdong Cardiovascular Inst, Guangdong Provincial People's Hosp, Guangdong Acad of Medical Sciences, Guangzhou, China; Autumn DeHart, Gretel Toloza-Alvarez, Lili Du, Wei Li, Marshall Univ, SOM, Huntington, WV

10:45 Presentation 131

Plasminogen Oxidized Phospholipid Adducts Drive Macrophage Activation in Through TLR2

Danielle L Michell, Clark Massick, Chase Raby, VANDERBILT UNIVERSITY MEDICAL CTR, Nashville, TN; Ashley Cavnar, Vanderbilt Univ Medical Ctr, Nashville, TN; Ryan Allen, Rachael Smith, VANDERBILT UNIVERSITY MEDICAL CTR, Nashville, TN; Breanne Gibson, VANDERBILT UNIVERSITY, Nashville, TN; Stephanie Moore-Lotridge, VANDERBILT UNIVERSITY MEDICAL CTR, Nashville, TN; Youmin zhang, Vanderbilt university medical cente, Nashville, TN; Marisol Ramirez, VUMC, NASHVILLE, TN; MacRae F Linton, VANDERBILT UNIVERSITY SCHOOL OF MED, Nashville, TN; Quanhu Sheng, Jonathan Schoenecker, VANDERBILT UNIVERSITY SCHOOL OF MED, Nashville, TN, Nashville, TN; Kasey C Vickers, VANDERBILT UNIV MEDICAL CENTER, Nashville, TN

11:00 Presentation # 132

VLX-1005 Effectively Treats Heparin-induced Thrombocytopenia (HIT) Without Increasing the Risk for Bleeding

Victoria Putzbach, University of Michigan Medical, Ann Arbor, MI; Reheman Adili, Univ of Michigan, Ann Arbor, MI; James Michael, Thomas Jefferson Univ, Philadelphia, PA; David J. Maloney, Veralex Therapeutics, Fredrick, MD; Steven E McKenzie, Thomas Jefferson Univ, Philadelphia, PA; Michael A Holinstat, University of Michigan Medical, Ann Arbor, MI

11:15 Presentation # 133
Coagulation FXI Regulates Endothelial Cell Barrier Function by Inducing VE-cadherin Proteolysis in An ADAM10-dependent Manner
Cristina Puy, Kelley R Jordan, Nhu Nguyen, Oregon Health & Science Univ, Portland, OR; Christina U Lorentz, Erick I Tucker, Aronora Inc, Portland, OR; David Gailani, Vanderbilt Univ Medical Ctr, Nashville, TN; Owen JT McCarty, Oregon Health & Science Univ, Portland, OR

11:30 Presentation # 134
Atorvastatin As Opposed to Ezetimibe Reduces Biomarkers of Thrombosis in The Setting of Aggressive Lipid Lowering Therapy: Findings From The American Heart Association Strategically Focused Cardiometabolic Health And Type 2 Diabetes Mellitus Research Network
Michael Garshick, Manila Jindal, NYU Langone Health, New York, NY; Khrystyna Myndzar, Brooklyn, NY; Tessa Barrett, NYU SCHOOL OF MEDICINE, New York, NY; Jonathan Newman, NEW YORK UNIVERSITY MEDICAL CENTER, New York, NY; Maja Fadzn, Yuhe Xia, Chiara Giannarelli, NYU Langone Health, New York, NY; Edward Fisher, Ira J Goldberg, NEW YORK UNIVERSITY, New York, NY; Jeffrey S Berger, NEW YORK UNIVERSITY SCHOOL MEDICINE, New York, NY

10:00 – 11:45 am
Concurrent Session 3c: Health Disparities in Peripheral Vascular Disease
Grand Ballroom C, 2nd Floor

Moderators:
Jean M. Ruddy, MD, Medical University of South Carolina
Kevin W. Southerland, MD, Duke University

10:00 Racial Disparities in Surgical Outcomes for PAD: An Ongoing Crisis in Desperate Need of Solutions
Chloé Powell, MD, University of Michigan

10:15 Rurality, Socioeconomic Inequity, and Peripheral Vascular Disease Disparities
Samantha D. Minc, MD, MPH, FSVS, West Virginia University School of Medicine

10:30 Update on AHA PAD Awareness Campaign
Amy Pollak, MD, Mayo Clinic

Rapid-Fire Oral Abstract Presentations

10:45 Presentation # 135
Sex-specific Differences in The Role of TSP1 on Metabolic Syndrome-induced Atherosclerosis
Shreya Gupta, Saugat Khanal, Kent State Univ, Kent, OH; Amy Mathias, Jason Lallo, Priya Raman, NEOMED, Rootstown, OH

10:53 Presentation # 136
Vascular Impairment from Acute Exposure to E-cigarette Aerosol Is Rescued by Inhibition of the Receptor for Advanced Glycation End Products (RAGE)

Daniel D Han, Huiliang Qiu, Xiaoyin Wang, Poonam Rao, Mina Navabzadeh, Natasha Goyal, Leila Mohammadi, Matthew L Springer, UCSF, San Francisco, CA

- 11:01 Presentation # 137
Role of Cellular Communication Network Factor 2 (ccn2) and Male Sex on Flow-mediated Arterial Remodeling and Atherosclerotic Plaque Formation
Luke P Brewster, Feifei Li, EMORY UNIVERSITY HOSPITAL, Atlanta, GA; victor Omojola, Georgia Inst of technology, Atlanta, GA; Sandeep Kumar, Emory Univ, Atlanta, GA; Rudolph L Gleason, GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA; Hanjoong Jo, EMORY UNIVERSITY, Atlanta, GA
- 11:09 Presentation # 138
Sex Differences in Limb Ischemia Recovery Following Conditional Endothelial Overexpression of Cept1
Rodrigo Meade, Connor Engel, Larisa Belaygorod, LI Yin, Clay F Semenkovich, Mohamed A Zayed, Washington Univ, St. Louis, MO
- 11:17 Presentation # 139
Precision Nanomedicine Targeting Novel Endothelial Mechano-sensing Mechanisms to Treat Vascular Diseases
Yun Fang, UNIVERSITY OF CHICAGO, Chicago, IL
- 11:25 Presentation # 140
Plasma Interleukin-6 Levels and Cardiovascular Events In The Cirt Trial: Consistent Associations For Incident Coronary, Cerebrovascular, And Peripheral Artery Disease
Lucas Marinho, BRIGHAM WOMENS HOSPITAL, Boston, MA; Aaron W Aday, Vanderbilt Medical Ctr, Nashville, TN; Nancy R Cook, BRIGHAM AND WOMENS HOSPITAL, Boston, MA; Alan R Morrison, Navneet Narula, Alpert Medical Sch at Brown Univ, Providence, RI; Jagat Narula, New York, NY; Francesca Bartoli-Leonard, New York, NY, Boston, MA; Elena Aikawa, BRIGHAM WOMANS HOSPITAL, Boston, MA; Jocelyn M Beach, Dartmouth-Hitchcock Medical Ctr, Lebanon, NH; Paul M Ridker, BRIGHAM WOMENS HOSPITAL, Boston, MA; Aruna D Pradhan, BRIGHAM AND WOMENS HOSPITAL, Boston, MA
- 11:33 Presentation # 141
African American Women with Cyp3a4/5 Polymorphisms Have Increased Statin Intolerance
Somayya J Mohammad, Ethan Schwendeman, Patrick S Dib, Michael W Milks, Leon McDougale, The Ohio state university, Columbus, OH; Philip F Binkley, DAVIS HEART LUNG INST, Columbus, OH; Sakima Smith, The Ohio State Univ, Columbus, OH
- 11:41 Discussion/Wrap-Up

12:00 – 12:30 pm

Learning Studio

Grand Ballroom D

Sponsored by Janssen Pharmaceuticals, Inc.

Clinical Insights in CAD and/or PAD: Reducing the Risk of Major Cardiovascular Events

David Dexter, MD

Patients with coronary artery disease (CAD) and/or peripheral artery disease (PAD) are at risk for major cardiovascular events, including cardiovascular death, myocardial infarction, stroke, ischemic stroke, acute limb ischemia, and major amputation of a vascular etiology. This lecture will discuss an approach to reducing the risk of these events.

This event supported by Janssen Pharmaceuticals, Inc. Complimentary food & beverage provided by the American Heart Association. No preregistration is required, but seating is limited. This event is not part of the accredited Vascular Discovery 2022 Scientific Sessions.

12:15 – 1:45 pm

Career Development: Overcoming Obstacles to Achieve Success
Redwood AB, 2nd Floor

Moderator: Ngan F. Huang, PhD, FAHA, Stanford University

Round Table Discussants:

Ngan F. Huang, PhD, FAHA, Stanford University
Shashi Kant, PhD, Brigham and Women's Hospital
Genesio Mugambe Karere
Jaime Amengual, PhD, University of Illinois
Adil Rasheed, PhD, Ottawa Heart Institute
Delphine Gomez, PhD, University of Pittsburgh
Cynthia St. Hilaire, PhD, FAHA, University of Pittsburgh

11:45 am – 1:45 pm

OR Lunch on your own

1:45 – 2:45 pm

Plenary Session 4: Irvine H. Page Junior Faculty Research Award Competition
Metropolitan Ballroom AB, 3rd Floor

Moderators:

Daisy Sahoo, PhD, FAHA, Medical College of Wisconsin
Timothy J. Stalker, PhD, Thomas Jefferson University

1:45 Presentation # 143

Il-1 β Antagonism Promotes SMC Differentiation and Accumulation in Fibrous Caps in Jak2V617f Clonal Hematopoiesis

Trevor P Fidler, Columbia Univ, New York, NY; Eunyong Kim, Fort Lee, NJ; Chenyi Xue, Brian Hardaway, Sandra Abramowicz, Nan Wang, Columbia Univ, New York, NY; Muredach P Reilly, COLUMBIA UNIVERSITY MEDICAL CENTER, New York, NY; Alan Tall, Columbia Univ, New York, NY

2:00 Presentation # 144

Nuclear Smooth Muscle α -actin Is Critical for Smooth Muscle Cell Differentiation and To Prevent Cerebrovascular Disease

Callie Kwartler, UTHSC-HOUSTON, Houston, TX; Albert J Pedroza, STANFORD UNIVERSITY, Santa Clara, CA; Anita Kaw, UTHSC-HOUSTON, Houston, TX; Shuangtao Ma, Michigan State Univ, East Lansing, MI; Xue-Yan Duan, Caroline Kernell, Mikayla Waters, Jiguan Chen, UTHSC-HOUSTON, Houston, TX; Michael P Fischbein, STANFORD UNIVERSITY, Stanford, CA; Dianna M Milewicz, Univ of Texas Health Science, Houston, TX

2:15 Presentation # 145
Glycine Metabolism Links Atherosclerosis and NASH: Studies in Humans, Nonhuman Primates and Mice
Oren Rom, LSU Health Shreveport, Shreveport, LA; Jifeng Zhang, UNIV MICH, Ann Arbor, MI; Eugene Chen, UNIV OF MICHIGAN MEDICAL CTR, Ann Arbor, MI

2:45 – 3:45 pm
Plenary Session 5: Hot Off the Bench Oral Abstract Presentations
Metropolitan Ballroom AB, 3rd Floor

Moderators:
Philip S. Tsao, PhD, Stanford University
Cynthia St. Hilaire PhD, FAHA, University of Pittsburgh

2:45 Presentation # 146
Endothelial-Specific Expression of CIDEA Improves High-Fat Diet-Induced Vascular and Metabolic Dysfunction

Bijinu Balakrishnan, Abhishek Gupta, Vishva Sharma, Ohio Univ, Athens, OH; Mark Slayton, Dearborn, MI; Kailey Gentner, Dearborn, MI, Athens, OH; Shakun Karki, Boston Univ Sch of Medicine, Boston, MA; Harrison Muturi, Boston Univ Sch of Medicine, Boston, MA, ATHENS, OH; Sonia M Najjar, OHIO UNIVERSITY, Athens, OH; Analia Loria, UNIVERSITY OF KENTUCKY, Lexington, KY; Noyan GOKCE, BOSTON UNIVERSITY SCHOOL OF MEDICINE, Boston, MA; Vishwajeet Puri, OHIO UNIVERSITY, Athens, OH

3:00 Presentation # 147
Endothelial Regulation by Enhancer Associated Long Non-coding RNA

Xiaofang Tang, Beckman Inst City Of Hope, Duarte, CA; Yingjun Luo, City of Hope, Duarte, CA; Dongqiang Yuan, Naseeb Malhi, CITY OF HOPE, Duarte, CA; Kiran Sriram, City of Hope, Duarte, CA; Zhen Bouman Chen, CITY OF HOPE, Duarte, CA

3:15 Presentation # 148
A Tissue-specific Crispr/cas9 Vector System for Conditional Gene Disruption in Zebrafish Reveal the Role of Neuropilin-1 In Heart Regeneration

Debabrata Mukhopadhyay, Mayo Clinic Coll of Med, Jacksonville, FL; Ramcharan Singh Angom, Mayo Clinic, Jacksonville, FL; Ying Wang, MAYO CLINIC, Rochester, MN

3:30 Presentation # 149
Type VIII Collagen Increases the Risk of Arteriovenous Fistula Failure in End-stage Kidney Disease Patients

Laisel Martinez, UNIVERSITY OF MIAMI, Miami, FL; Miguel Rojas, Marwan Tabbara, Simone Pereira-Simon, UNIVERSITY MIAMI, Miami, FL; Nieves Santos Falcon, Mohd A Rauf, Univ of Miami, Miami, FL; Zachary Zigmund, Roberto I Vazquez Padron, UNIVERSITY MIAMI, Miami, FL

3:45 – 4:15 pm
Refreshments/Coffee/Exhibits
Grand Ballroom Foyer, 2nd Floor

4:15 – 6:00 pm

Concurrent Session 4a: Metabolic Disorders and Atherosclerosis

Metropolitan Ballroom A, 3rd Floor

Moderators:

Manuel F. Navedo, PhD, University of California – Davis

Babak Razani, MD, PhD, Washington University School of Medicine

4:15 From Arsonist to Firefighter: Reprogramming Macrophages in Atherosclerosis and Obesity

Babak Razani, MD, PhD, Washington University School of Medicine

Oral Abstract Presentations

4:45 Presentation # 150

Cytokine Signaling in Intestinal Epithelial Cells as a Regulator of Microbiota, Inflammation and Atherosclerosis

Natalia Kurilenko, Cedars-Sinai Medical Ctr, West Hollywood, CA; Aliia Fatkhullina, Fox Chase Cancer Ctr, Philadelphia, PA; Aleksandra Mazitova, Cedars-Sinai Medical Ctr, West Hollywood, CA; Andrew Kossenkov, Wistar Inst, Philadelphia, PA; Sergei Grivennikov, Ekaterina Koltsova, Cedars-Sinai Medical Ctr, West Hollywood, CA

5:00 Presentation # 151

Macrophage Specific Ablation of Bmal1 Regulate Cholesterol Metabolism and Atherosclerosis

Xiaoyue Pan, Samantha Mota, John O'Hare Jr., Jolee Murphy, Cyrus Mowdawalla, M. Mahmood Hussain, NYU Long Island Sch of Med, Mineola, NY

5:15 Presentation # 152

Myeloid Cell ADAM17 Impairs Hepatic Triglyceride-Rich Lipoprotein Clearance in an LDL Receptor-Deficient Mouse Model of Prediabetes

Jingjing Tang, Vishal Kothari, Tomas Vaisar, Masami Shimizu-Albergine, Farah Kramer, Jeremy M Frey, Jenny E Kanter, Karin E Bornfeldt, Univ of Washington, Seattle, WA

5:30 Presentation # 153

The Differential Effects of Weight Loss and Regain on Atherosclerosis

Ada Weinstock, NYU School of Medicine, New York, NY; Bianca Scolaro, NYU Sch of Med, New York, NY; Emily J Brown, Marie Petitjean, Cyrus A Nikain, Stephanie Pena, NYU SCHOOL OF MEDICINE, New York, NY; Michela Garabedian, New York Univ Medical Ctr, New York, NY; Rosenn Eric, NYU School of Medicine, New York, NY; Myriam Aouadi, Karolinska Inst, Huddinge, Sweden, Edward Fisher, NYU Langone Health, New York, NY

5:45 Presentation # 154

Endothelial Dysfunction in Experimental Celiac Disease Is Mediated by Gut-Derived Vascular Inflammation and Oxidative Stress

Karin Keppeler, Johanna Helmstädter, Leonie Kuester, Lea Strohm, Henning Ubbens, Maria Teresa Bayo Jimenez, Marin Kuntic, Ivana Djordjevic, Stefanie Finger, Matthias Oelze, Detlef Schuppan, Philip Wenzel, Philipp Wild, Thomas Muenzel, Andreas Daiber, Sebastian Steven, Univ Medical Ctr Mainz, Mainz, Germany

4:15 – 6:00 pm

Concurrent Session 4b: Platelet Production, Signaling and Function

Metropolitan Ballroom B, 3rd Floor

Moderators:

Eric Boilard, PhD, Centre de Recherche du Centre Hospitalier Universitaire de Québec

John Hwa, MD, PhD, FRACP, Yale University School of Medicine

4:15 Role of Platelets and Extracellular Vesicles in Immunity

Eric Boilard, PhD, Centre de Recherche du Centre Hospitalier Universitaire de Québec

Oral Abstract Presentations

4:45 Presentation # 155

Divergent Mature Vascular Smooth Muscle Cell Fates Are Directed by Platelet-derived Transcriptomic Codes in Aortic Aneurysms

Muhammad Yogi Pratama, NYU Langone Health, New York, NY; Cristobal Rivera Martinez, NYU Grossman Sch of Med, New York, NY; Michele Silvestro, NYU Sch of Med, New York, NY; John Vlahos, NYU Sch of Med, New York, NY, Bronx, NY; Ariadne Zias, NYU Langone Health, New York, NY; Devon Byrd, Rayan Sleiman Tellaoui, NYU Langone Health, New York, NY, Bronx, NY; Thomas Maldonado, Bham Rhamkhelawon, NYU Langone Health, New York, NY

5:00 Presentation # 156

Prenatal Exposure to Electronic Delivery Systems Modulates Platelet Reactivity, Epigenetics and Gene Expression in Mice

Ahmed Alarabi, Hamdy Ali, Patricia Lozano, Texas A&M Univ, Kingsville, TX; Fadi T Khasawneh, Texas AM Univ, Kingsville, TX; Fatima Z Alshbool, Texas A&M Univ, Kingsville, TX

5:15 Presentation # 157

Role of Systemic Platelet Levels in Venous Thrombosis and Resolution in a Murine Model of Inferior Vena Cava Constriction

Rick Mathews, Anh Le-Cook, Naly Setthavongsack, Randall L Woltjer, Oregon Health and Science Univ, Portland, OR; Monica T Hinds, Khanh P Nguyen, OHSU, Portland, OR

5:30 Presentation # 158

Bioactive Lipids as Biomarkers of Severe Adverse Reaction Associated with Apheresis Platelet Concentrate Transfusion

Anne-Claire Duchez, Sebastien FAUTEUX-DANIEL, Caroline SUT, Etablissement Francais du Sang, Saint Etienne, France; Theo EBERMEYER, SAINBIOSE, INSERM, U1059, Univ of Saint-Etienne, Saint Etienne, France; Charles-Antoine ARTHAUD, Marie-Ange EYRAUD, Amelie PRIER, Estelle AUDOUX, Etablissement Francais du Sang, Saint Etienne, France; Justine BERTRAND-MICHEL, MetaboHUB-MetaToul, Natl Infrastructure of Metabolomics and Fluxomics & I2MC, Univ de Toulouse, Inserm, Univ Toulouse III – Paul Sabatier, Toulouse, France; Bernard PAYRASTRE, I2MC, Univ de Toulouse, Inserm, Univ Toulouse III – Paul Sabatier (UPS) & INSERM UMR 1214, ToNIC: Toulouse NeuroImaging Ctr, Toulouse, France; Olivier GARRAUD, Etablissement Francais du Sang, Saint Etienne, France; Eric Boilard, Dept of Infectious Diseases and Immunity, Ctr de recherche du CHU de Québec & Univ Laval and Ctr de recherche ARThrite, Quebec, QC, Canada; Hind HAMZEH-COGNASSE2, SAINBIOSE, INSERM, U1059, Univ of Saint-Etienne, Saint Etienne, France; Fabrice COGNASSE, Etablissement Francais du Sang, Saint Etienne, France

5:45 Presentation # 159
Effect Of Antiplatelet Agents and Tyrosine Kinase Inhibitors on OxLDL-mediated Platelet Procoagulant Activity

Tony J Zheng, Oregon Health & Science Univ, Portland, OR; Jiaqing Pang, Oregon Health & Science University, Portland, OR; Tia Kohs, Oregon Health Science Univ, Portland, OR; Stephanie Reitsma, Iván Parra-Izquierdo, OHSU, Portland, OR; Alexander Melrose, Oregon Health Science Univ, Portland, OR; Mark Larson, Augustana Univ, Sioux Falls, SD; Craig D Williams, OSU College Pharmacy, Portland, OR; Monica T Hinds, OHSU, Portland, OR; Owen J McCarty, Oregon Health & Science University, Portland, OR; Joseph E Aslan, Oregon Health & Science University, Portland, OR

4:15 – 6:00 pm

Concurrent Session 4c

Polygenic Risk Scores for Risk Stratification: Pro - A Transformative Advance vs. Con - A Modest Improvement

Grand Ballroom C, 2nd Floor

Moderator:

Iftikhar J. Kullo, MD, Mayo Clinic

Participants

Themistocles (Tim) Assimes, MD, PhD, Stanford University

Pradeep Natarajan, MD, MMSc, Massachusetts General Hospital

Derek Klarin, MD, Stanford University

Khurram Nasir, MD, Houston Methodist Hospital

Sadiya S. Khan, MD, MSc, FAHA, FACC, Northwestern University

4:15 Introduction and Overview
Iftikhar J. Kullo, MD, Mayo Clinic

4:25 PRS for CHD Risk Stratification: An Update from Recent 'Mega Analyses'
Themistocles (Tim) Assimes, MD, PhD, Stanford University

4:35 PRO: PRS for CHD, A Transformative Advance
Derek Klarin, MD, Stanford University

4:45 CON: PRS for CHD, A Modest Improvement
Sadiya S. Khan, MD, MSc, FAHA, FACC, Northwestern University

4:55 Rebuttals/Audience Q &A

5:10 PRO: PRS for CHD: Needed to Inform Screening and Therapy
Pradeep Natarajan, MD, MMSc, Massachusetts General Hospital

5:20 CON: Coronary Calcification Study is All You Need
Khurram Nasir, MD, Houston Methodist Hospital

5:30 Rebuttals/Audience Q &A

5:45 Wrap-up Summary and Discussion

6:00 – 8:00 pm
Poster Session 2 and Reception
Grand Ballroom ABC, 2nd Floor

8:00 – 10:30 pm
Council Dinner (ticket required)
Metropolitan Ballroom AB, 3^d Floor

Saturday, May 14

8:30 – 10:30 am
Poster Session 3 and Continental Breakfast
Grand Ballroom ABC, 2nd Floor

10:30 am – Noon
Plenary Session 6: Invited Lecture Series
Metropolitan Ballroom AB, 3^d Floor

Moderators:
Katey Rayner, PhD, FAHA, University of Ottawa Heart Institute
Kerry-Anne Rye, PhD, FAHA, University of New South Wales

10:30 Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research Lecture
Genomic Aging and Cardiovascular Disease
Pradeep Natarajan, MD, MMSc, Massachusetts General Hospital

11:00 Keynote Lecture
Cerebrovascular Disease: A Message of Hope From the Developing Embryo
Stefania Nicoli, PhD, Yale University School of Medicine

11:30 Distinguished Lecture
Cardiovascular Disease: Impact Beyond the Heart
Kathryn J. Moore, PhD, FAHA, New York University Grossman School of Medicine

Noon
Closing Remarks/Vascular Discovery 2022 Adjourns

1:00 – 7:00 PM
HDL Structure-Function Workshop
Willow AB, 2nd Floor
Separate registration is required to attend
This conference is not part of the education activities for Vascular Discovery 2022

Abstract List of Topics

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Poster Abstracts:

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Apolipoproteins and Lipid Metabolism

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Blood Coagulation, Platelet Function and Antithrombotic Therapy

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Cardiovascular Precision Medicine

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COVID19

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Functional Genomics and Epigenetics in Vascular Disease

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Immune Mechanisms of Atherosclerosis

Oral Abstracts: 128, 131, 143, 150

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Immunity and Inflammation in Vascular Biology

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Metabolic Disorders and Atherosclerosis

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