



American Heart Association | American Stroke Association®

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ATVB | PVD
2016

Arteriosclerosis, Thrombosis and Vascular Biology | Peripheral Vascular Disease

Scientific Sessions 2016

Final Program and Abstracts

May 5-7, 2016 | Omni Nashville Hotel | Nashville, Tennessee

In Collaboration with the Council on Functional Genomics and Translational Biology and the Society of Vascular Surgery's Vascular Research Initiatives Conference.

professional.heart.org

Program at a Glance

	Wednesday May 4, 2016	Thursday May 5, 2016	Friday May 6, 2016	Saturday May 7, 2016
7:00 AM	Separate registration may be required for the meetings listed below. 8:00–6:00 Vascular Research Initiative Conference 2016	Registration, Continental Breakfast, Exhibits	Registration, Continental Breakfast, Exhibits	
7:30 AM		8:00–10:00 Conference Opening and Plenary Session I Functional Genomics: Moving from Association to Understanding Mechanisms of Disease	8:00–9:30 Plenary Session III Highlights from the <i>ATVB Journal</i>	Registration
8:00 AM				8:30–10:30 Poster Session and Continental Breakfast
8:30 AM		10:00–10:20 Refreshment Break/Exhibits	9:30–9:50 Refreshment Break/Exhibits	10:30–NOON Plenary Session V Invited Lecture Series Hoeg Award Lecture Keynote Lecture Distinguished Lecture
9:00 AM				
9:30 AM				
10:00 AM		10:20–12:05 Concurrent Session I A – Mechanisms of Atherosclerosis B – Molecular, Developmental and Cellular Biology of the Vessel Wall C – Translational Science of Vascular Medicine: Vascular Dysfunction	9:50–11:35 Concurrent Session III A – Lipoprotein Metabolism and Therapeutic Targets B – Blood Coagulation and Antithrombotic Therapy C – Translational Science in Venous Thromboembolic Disease (VTE)	NOON Closing Remarks/Adjourn
10:30 AM				
11:00 AM				
11:30 AM				
NOON	NOON–6:00 KinMet	12:05–1:25 The Mentor of Women Award Luncheon <i>(ticket required)</i> PVD annual Business Meeting and Networking Luncheon <i>(ticket required)</i> Lunch Lecture <i>(sponsored by Merck)</i> Or lunch on your own	11:35–1:10 Luncheon Workshop: Think Fast, Talk Smart: Confident, Connected and Compelling Presentations <i>(ticket required)</i> Or lunch on your own	HDL Structure–Function Workshop Saturday/Sunday <i>Separate registration required</i>
12:30 PM	1:00–5:00 CAAC Symposium	1:25–2:55 Plenary Session II Inflammation, Thrombosis and Vascular Disease	1:10–3:10 Plenary Session IV Young Investigator Award Competition Brinkhous Prize and Page Award	
1:00 PM				
1:30 PM				
2:00 PM				
2:30 PM				
3:00 PM	3:00–7:00 ATVB PVD Registration	2:55–3:15 Refreshment Break/Exhibits	3:10–3:30 Refreshment Break/Exhibits	
3:30 PM	3:15–5:00 Concurrent Session II A – Apolipoproteins and Lipid Metabolism B – Immunity and Inflammation in Vascular Biology and Thrombosis C – Translational Science of Vascular Medicine: Aneurysmal Disease	4:30–6:30 Next-Generation Technology Bootcamp 1	3:30–5:15 Concurrent Session IV A – Diabetes, Obesity and Metabolic Disorders B – Platelet Production, Signaling and Function C – Genomics, Epigenomics and Stem Cells in Vascular Disease	4:30–6:00 Next-Generation Technology Bootcamp 2
4:00 PM				
4:30 PM				
5:00 PM				
5:30 PM				
6:00 PM				
6:30 PM				
7:00 PM	7:00–10:00 CAAC Reception and Dinner	6:00–8:00 Poster Session and Reception	5:15–7:15 Poster Session and Reception	7:15–10:00 Council Dinner <i>(ticket required)</i>
7:30 PM	7:00–10:00 CAAC Reception and Dinner	6:00–7:00 Moderated PVD Poster Session	7:15–10:00 Council Dinner <i>(ticket required)</i>	
8:00 PM				

Legend: Plenary Session Poster Session Meals/Breaks
 Concurrent Session Presentation Skills Training Other Meetings of Interest

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Save the Date!

ATVB 2017 Scientific Sessions

May 4–6, 2017 | Hyatt Regency | Minneapolis, Minnesota

Questions and Information

Questions

If you have questions after reading this program, contact the American Heart Association National Center, Dallas, Texas:

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Letter from the Chair and Vice Chair

Dear Colleague,

On behalf of the American Heart Association, the Council on Arteriosclerosis, Thrombosis and Vascular Biology, the Council on Peripheral Vascular Disease and the Council on Functional Genomics and Translational Biology, we welcome you to the ATVB/PVD 2016 Scientific Sessions in Music City, Nashville, Tennessee. Long known as the “Songwriting Capital of the World,” music weaves a fundamental pattern in Nashville’s cultural, business and social fabric, and live music can be seen and heard every day and night of the week. A mild, pleasant climate and lush, green, rolling hills offer a beautiful backdrop to the incredible music, exceptional dining, fantastic shopping, exciting sporting events, historical landmarks and thriving contemporary and theatrical arts scene in this amazing city. Experience the warm hospitality of the South in beautiful Nashville.

ATVB/PVD 2016 provides unique opportunities to meet with colleagues from around the world with wide-ranging research interests and expertise within the research communities of arteriosclerosis, thrombosis and vascular biology. The primary goal of this conference is to provide a forum for the timely exchange of information about new and emerging scientific research in lipids and lipoproteins, arteriosclerosis, thrombosis, vascular biology, genomics and peripheral vascular disease.

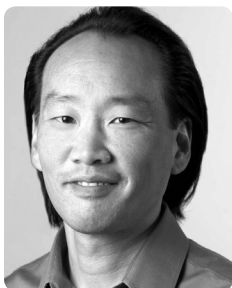
In addition to invited plenary lectures and concurrent sessions, we will have oral presentations of selected abstracts and three lively poster sessions. On Thursday, integrated translational sessions in vascular medicine developed collaboratively by the PVD and ATVB councils will address the intersection of basic and clinical sciences and provide opportunities for collaboration at the translational interface in PVD- and ATVB-related science. There are concurrent sessions and a moderated poster session centered on peripheral vascular disease themed abstracts, and a special NHLBI session on translation and product development challenges for scientists. On Friday morning, the PVD Council and the American Venous Forum have joined together to present a session on venous thromboembolic disease.

Back by popular demand, in collaboration with the Council on Functional Genomics and Translational Biology, we have two hands-on Next-Generation Technology Bootcamps. The bootcamp on Thursday will address next-generation sequencing data interpretation, and the Friday bootcamp will be on genome editing using the CRISPR/Cas9 system. Pre-registration is required to attend the bootcamps.

One of the areas of emphasis for this conference is to encourage interactions between young scientists and more senior scientists in their research area to foster dialogue and facilitate the exchange of ideas. The format of the conference, with many invited presentations as well as a dedicated focus on poster presentations, is intended to maximize a thought-provoking flow of information and discourse among scientists. The ATVB Early Career Committee has planned some exciting sessions this year, including a special Luncheon Workshop on enhancing your presentation skills. A ticket is required to attend this workshop. Be sure to check with the registration desk to see if tickets are available.

We hope you will find the ATVB/PVD 2016 Scientific Sessions an excellent educational and academic experience and a great opportunity to network with scientists from around the world who are dedicated to building healthier lives, free of cardiovascular diseases and stroke.

Sincerely,



Philip S. Tsao, PhD
Chair, ATVB/PVD 2016
Scientific Sessions



Nancy R. Webb, PhD, FAHA
Vice Chair, ATVB/PVD 2016
Scientific Sessions

*The American Heart Association is a national voluntary health agency whose mission is
"Building healthier lives, free of cardiovascular diseases and stroke."*

The American Heart Association gratefully acknowledges the unrestricted educational grant from AstraZeneca.

Additionally, we would like to thank the following for their generous support of ATVB/PVD 2016:

*Merck & Co., Inc. National Heart, Lung, and Blood Institute ATVB Journal Omni Nashville Hotel
Arteriosclerosis, Thrombosis and Vascular Biology Council Functional Genomics and Translational Biology Council
Peripheral Vascular Disease Council*

The American Heart Association is grateful to the members of the Program Committee for their dedication and leadership in planning the program.

Program Committee

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Kathy K. Griendling, PhD, FAHA	Greg Piazza, MD	Wei Zhou, MD
Zhenheng Guo, PhD	J. Geoffrey Pickering, MD, PhD, FAHA	
Jennifer Hall, PhD	Henry Pownall, PhD	

Room Locator

Wednesday, May 4	
CAAC Symposium (ticket required)	Broadway Ballroom E
CAAC China Night Reception and Dinner (ticket required)	Cumberland 1-2
CSATVB Poster Session and Reception	Cumberland 5-6
KinMet 2016	Cumberland 1-2
Exhibits	Broadway Ballroom Prefunction
Registration	Broadway Ballroom Prefunction
Speaker Resource Room	Music Row Meeting Room 1
Vascular Research Initiatives Conference (VRIC) 2016 (separate registration required)	Broadway Ballroom A-B
Thursday, May 5	
Communication Center	Broadway Ballroom Prefunction
Continental Breakfast	Broadway Ballroom Prefunction
Concurrent Session A	Broadway Ballroom E
Concurrent Session B	Broadway Ballroom A-B
Concurrent Session C	Broadway Ballroom C-D
Early Career Training	Broadway Ballroom E
Exhibits	Broadway Ballroom Prefunction
Lunch and Lecture <i>Sponsored by Merck</i>	Cumberland 5-6
Mentor of Women Award Luncheon (ticket required)	Cumberland 1-2
Moderated PVD Poster Session	Legends Ballroom Prefunction
Next Generation Technology Bootcamp (ticket required)	Cumberland 1-2
Plenary Sessions	Broadway Ballroom East
Poster Session and Reception	Legends Ballroom
PVD Annual Business Meeting and Networking Luncheon (ticket required)	Music Row Meeting Room 5
Refreshment Breaks	Broadway Ballroom Prefunction
Registration	Broadway Ballroom Prefunction
Speaker Resource Room	Music Row Meeting Room 1
Special NHLBI Report	Broadway Ballroom C-D

Friday, May 6	
Communication Center	Broadway Ballroom Prefunction
Continental Breakfast	Broadway Ballroom Prefunction
Concurrent Session A	Broadway Ballroom E
Concurrent Session B	Broadway Ballroom A-B
Concurrent Session C	Broadway Ballroom C-D
Early Career Training	Broadway Ballroom Prefunction
Exhibits	Broadway Ballroom Prefunction
Luncheon Workshop: Presentation Skills (ticket required)	Cumberland 1-2
Next Generation Technology Bootcamp (ticket required)	Cumberland 1-2
Plenary Sessions	Broadway Ballroom East
Poster Session and Reception	Legends Ballroom
Refreshment Breaks	Broadway Ballroom Prefunction
Registration	Broadway Ballroom Prefunction
Speaker Resource Room	Music Row Meeting Room 1
Council Dinner (ticket required)	Broadway Ballroom East
Saturday, May 7	
Communication Center	Broadway Ballroom Prefunction
Continental Breakfast	Legends Ballroom
HDL Workshop 1:30–6:00 PM	Cumberland 1-2
Plenary Sessions	Broadway Ballroom East
Poster Session	Legends Ballroom
Registration	Broadway Ballroom Prefunction
Speaker Resource Room	Music Row Meeting Room 1
Sunday, May 8	
HDL Workshop 8:00 AM–12:00 PM	Cumberland 1-2

General Information

This 2½-day meeting is sponsored by the Council on Arteriosclerosis, Thrombosis and Vascular Biology and the Peripheral Vascular Disease Council, in cooperation with the Council on Functional Genomics and Translational Biology and the Society for Vascular Surgery. The meeting includes diverse disciplines within the arteriosclerosis, thrombosis, vascular biology, functional genomics, peripheral vascular disease and vascular surgery research communities that allow investigators to explore areas of cross-disciplinary interests. Special lectures, discussions and oral and poster presentations are planned. The meeting provides opportunities for intense interaction among participants during sessions and breaks. We expect a broad representation from many disciplines and encourage young scientists to attend.



Learning Objectives

At the conclusion of the conference, participants will be able to:

1. Describe recent findings regarding the role and mechanism of action of triglyceride-rich lipoproteins (TGRL) in cardiovascular disease, approaches to assess TGRL proteins, the results of large genetic studies implicating TGRL in atherosclerosis, and the clinical relevance of this research.
2. Identify current controversies in the contribution of HDL-C to atherosclerosis and their clinical implications. Evaluate recent research related to HDL-C mechanisms in CVD, including HDL function assessment and implications for the prevention and treatment of atherosclerosis.
3. Review the latest research into the signaling and genetic pathways involved in vascular dysfunction and for new therapeutic options and management.
4. Describe current efforts to reverse vascular damage through medical therapy and vascular regeneration.
5. Identify novel genomic and circulating biomarkers that could be used to assess CVD risk and discuss the strengths and weaknesses of each.
6. Describe the biology of cardio-metabolic pathways and risk factors as they relate to the development and progression of cardiovascular disease and diabetes, and potential options for management.
7. Review novel mechanisms and emerging antithrombotics that reduce atherothrombosis without increasing the bleeding risk.

Exhibits

Beginning Wednesday afternoon, visit the **Exhibits**, located in the Broadway Ballroom Prefunction area. Exhibits will be open during registration hours, breaks and lunch. A **Communication Center** will also be available during Exhibit hours.

Arteriosclerosis, Thrombosis, and Vascular Biology

An American Heart Association Journal


The forum for publication of basic, translational, clinical, and population research in the area of arteriosclerosis, thrombosis, and vascular biology.

EDITOR-IN-CHIEF
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Through its articles and contributions, ranging from basic science to translational and clinical medicine to population health, **ATVB** equips readers with state-of-the-art knowledge to navigate recent developments across the full spectrum of arteriosclerosis, thrombosis, and vascular biology research.

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Information for Presenters

Speaker Resource Room

The Speaker Resource Room is located in **Music Row Meeting Room 1** on Level 2, to the right as you come up the escalator from the hotel lobby. Speakers are asked to deliver their presentations on CD-ROM, DVD-ROM or a USB storage device to the Speaker Resource Room at least three hours before the beginning of the session in which they will speak. Presenters who speak on Thursday, May 5, may check in beginning at 3 PM Wednesday, May 4, but we request that you check in before 6 PM. This will allow you time to prepare, rehearse and finalize your presentation before you submit it. ***It is imperative that you review your presentation in the Speaker Resource Room if it contains video files or was created on a Mac.*** Speakers will be directed to a preloading station where a technician will be on hand to load the presentations. Speakers may also use this room to review and practice their presentations on PCs and Mac computers. The Speaker Resource Room will be open during the following hours:

Wednesday, May 4 3:00–6:00 PM	Thursday, May 5 7:00 AM–6:00 PM	Friday, May 6 7:00 AM–6:00 PM	Saturday, May 7 7:30–10:30 AM
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Abstract Presentations

Abstracts presented at ATVB/PVD 2016 will be published after the conference in the online *ATVB* journal. Each conference registrant will receive a copy of the abstracts in the registration materials

Abstracts 1–62 will be presented orally.

Abstracts 95–665 will be presented as posters as follows:

Poster Session I: Thursday, May 5, 6:00–8:00 PM (attended), abstracts 95–272.

Poster Session II: Friday, May 6, 5:15–7:15 PM (attended), abstracts 300–472.

Poster Session III: Saturday, May 7, 8:30–10:30 AM (attended), abstracts 500–665.

Abstract poster presenters are asked to comply with the set-up and tear-down schedule shown below:

Poster Session Date	Location	Presentation Time	Attendance Time	Set-up Time	Tear-Down Time
Session I Thursday, May 5	Legends Ballroom	6:00–8:00 PM	6:00–8:00 PM	11:00 AM–5:30 PM	8:00–9:00 PM
Moderated PVD Posters Thursday, May 5	Legends Ballroom Prefunction Area	6:00–7:00 PM	6:00–7:00 PM	3:30–6:30 PM	6:30–9:00 PM
Session II Friday, May 6	Legends Ballroom	5:15–7:15 PM	5:15–7:15 PM	11:00 AM–5:00 PM	7:15–9:30 PM
Session III Saturday, May 7	Legends Ballroom	8:30–10:30 AM	8:30–10:30 AM	10:00 PM Friday– 8:00 AM Saturday	10:30 AM–12:30 PM

ePosters

In addition to the traditional poster format, abstract presenters were invited to upload their posters electronically. During the meeting, each abstract will have a QR code displayed on their poster board, which will enable attendees with smartphones to view the ePosters and, if applicable, the author's narration of the poster. ePosters are available only to attendees and may be viewed from the Communication Center, which is located in the registration area. Posters will be accessible to the general public after May 20.

Conference Highlights – Early Career Activities and Ticketed Events

Early Career Activities

Join us on Thursday and Friday for these Early Career sessions. The training sessions are open to all attendees, but are targeted to early career participants. *No advance registration is required, but seating is limited.*

Thursday, May 5, 7:00–8:00 AM

Early Career Training Session

Succeeding at Every Stage: Insights from the Early Career Committee

Broadway Ballroom E

This session focuses on how to achieve success in your post-doctoral fellowship, how to successfully acquire transition grants, and keys to successfully negotiating your first independent position as a scientist or physician-scientist. Each topic is led by ECC members that have been highly successful in the subject area.

Getting Your First Grant: Insights from Study Section

Jordan Miller, PhD, Mayo Clinic, Rochester, MN

Thomas Vallim, PhD, UCLA, Los Angeles, CA

Building a Successful International Research Program: Perspectives from Europe

Lars Maegdefessel, MD, PhD, Karolinska Institute, Stockholm, Sweden

Keys to the Kingdom: Setting up and Managing your Own Lab

Randal Westrick, PhD, University of Michigan, Ann Arbor, Michigan

Catherine Martel, PhD, Montreal Heart Institute, Montreal, Quebec, Canada

The Importance of Mentoring and Being Mentored

Katey Rayner, PhD, University of Ottawa Heart Institute, Ottawa, Ontario, Canada

Cynthia St. Hilaire, PhD, University of Pittsburgh, Vascular Medicine Institute, Pittsburgh, PA

Clinical Practice and Research Lab Management: A Balancing Act

Nick Leeper, MD, Stanford University, Palo Alto, CA

Marcel Liberman, MD, PhD, Hospital Israelita Brasileira Albert Einstein, Sao Paulo, Brazil

Know your KangaR00: Preparing a Successful K99/R00 Application

Gabrielle Fredman, PhD, Albany Medical College, Albany, NY

Friday, May 6, 7:00–8:00 AM

Early Career Training Session

Speed Networking: Coffee, Careers and Communication

Broadway Ballroom Prefunction

Come and network with ATVB Faculty members, both junior and senior alike. Take this opportunity to meet leaders in the field, talk about your latest research, try your elevator pitch, and get valuable career advice -- all this while sipping your morning coffee. The format will be informal and allow for interaction between many participants.



Conference Highlights – Early Career Activities and Ticketed Events (continued)

Thursday and Friday, May 5-6

Translational Science of Vascular Medicine Sessions

On Thursday and Friday, join us for these integrated concurrent sessions that address the intersection of basic and clinical sciences, and provide opportunities for basic and clinical scientists to collaborate at the translational interface in vascular medicine. The Thursday sessions emphasize peripheral arterial disease and aneurysmal disease. On Friday morning, the PVD Council and the American Venous Forum will conduct session on Translational Science in Venous Thromboembolic Disease. These sessions include invited talks as well as oral abstract presentations.

On Thursday afternoon, there will be a session titled **Innovation to Impact: Beginning the Process** which will address translation and product development challenges for scientists. Leading the discussion will be Zorina Galis, PhD, Chief of the NHLBI Vascular Biology and Hypertension Research Branch as well as panelists from industry who will discuss bringing innovations to market. Individual consultation will be available to conference attendees on Friday morning. Reservations may be made at the AHA Membership Booth in the exhibits area.

At 6:00 PM Thursday, in the Legends Ballroom Prefunction area, there will be a moderated and innovative electronic poster session featuring PVD-related abstracts. The session is open to all conference registrants.

We're also offering two Next Generation Technology Bootcamps in Cumberland 1-2. Bootcamp 1 will be 4:30-6:30 PM Thursday and will cover next-generation sequencing data interpretation. At 4:30-6:00 PM Friday, Bootcamp 2 will be on genome editing with the CRISPR/Cas9 system. *A separate ticket is required to attend. These sessions are full; check with the ATVB|PVD registration desk to see if any tickets are available.*

Ticketed Events

The following events are open to all attendees. A separate nonrefundable fee is required to attend these events. Tickets will be sold at the registration desk. Please check with staff at the Registration Desk for availability.

Please join us in Cumberland 1-2, located on Level 3, at 12:05 PM Thursday, May 5, for the **Mentor of Women Award Luncheon**, hosted by the ATVB Women's Leadership Committee. The featured luncheon speaker is Zorina Galis, PhD, chief of Vascular Biology and Hypertension at the National Institutes of Health/National Heart, Lung, and Blood Institute. Dr. Galis will present on **Pursuing Your Dream Biomedical Career: Sit It Out or Dance? I Hope You 'D.A.N.N.C.E.!** During the luncheon, finalists for the Junior Investigator Award for Women will be announced and the ATVB Women's Leadership Committee Mentoring Award will be presented. The luncheon is open to all attendees; however, a ticket is required. *A separate, nonrefundable \$50 fee is required to attend this event.*

The **PVD Council Annual Business Meeting and Networking Luncheon** will be held in Music Row 5, located on Level 2, at 12:05 PM Thursday, May 5. Please join the PVD Council to acknowledge the 2016 recipients of the Hobson Award, the Mid-Career Investigator Award, the Young Investigator Travel Awards, recognize new FAHAs and network with colleagues. The luncheon is open to all attendees; however, a ticket is required. *A separate, nonrefundable \$35 fee is required to attend this event.*

At 11:35 AM Friday, May 6, join us for a special **Luncheon Workshop: Think Fast. Talk Smart. Skills for Effective Presenting**. Presented by Matt Abrahams, a lecturer at Stanford University's Graduate School of Business, this session will show participants the necessary steps for creating clear, memorable and compelling presentations. *A separate, nonrefundable \$25 fee is required to attend this event.*

Also on Friday, join your colleagues for food, drinks and entertainment at the **Council Dinner**, to be held in Broadway Ballroom East. *Tickets, if available, may be purchased at registration (\$70 per person for registrants and their guests; \$30 for early career/student/trainee attendees).*

NEW in 2016!

On Thursday, join us for a complimentary lunch* while learning the latest advances in ATVB/PVD services and technologies. **An Update on Arterial Thrombosis Pathophysiology and Management** will be presented Thursday, beginning at 12:05 PM in Cumberland 5-6. *No preregistration is required, but seating is limited.*

** Lunch provided to attendees by the American Heart Association. This event is supported by Merck and is not part of the official ATVB/PVD conference as planned by the ATVB/PVD Program Committee.*

Conference Highlights – Lectures and Awards

On Saturday morning, May 7, plan to attend the **Invited Lecture Series** featuring the Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research Lecture, the Distinguished Lecture and the Keynote Lecture.



At 10:30 AM, **Esther Lutgens, MD, PhD**, will present this year's **Jeffrey M. Hoeg Award Lecture**. This lecture was established in 1999 to honor Jeffrey M. Hoeg, MD, for his contribution to furthering the understanding of the pathophysiology of atherosclerosis and the development of treatment strategies for its prevention through both basic science and clinical research efforts.

Dr. Lutgens studied Medicine at the University of Maastricht in the Netherlands. At the same time, she earned a PhD in Experimental Vascular Pathology with Professor Mat Daemen. In 2001, she obtained a stipend from NWO, and did her post-doctoral fellowships at Harvard University in Boston, MA, with Professor Peter Libby, and at Dartmouth University in Hanover, NH, with Professor Michael Simons.

After her return to the Netherlands, she obtained multiple grants to set up her own laboratory on Experimental Vascular Immuno-pathology within the Cardiovascular Research Institute Maastricht. She became an Established Investigator of the Dutch Heart Foundation in 2009, and obtained a Sofja Kovalevskaja fellowship in Germany, which enabled her to open a second laboratory within the Institute for Cardiovascular Prevention (LMU, Munich) headed by Professor Christian Weber.

In 2012, she was appointed as a full professor at the Academic Medical Center in Amsterdam, the Netherlands, where she is co-heading the Experimental Vascular Biology lab together with Professor Menno de Winther.

The current focus of her research is the role of immune-modulation in atherosclerosis, and she has published numerous papers in this field in established journals such as *ATVB*, *Circulation*, *Experimental Medicine*, *Blood* and *Nature Medicine*.

In 2013, she obtained the prestigious VICI grant (NWO), and in 2016 she received an ERC (European Research Council) consolidator grant, which allows her to design, test and optimize small molecule inhibitors against co-stimulatory molecules to treat atherosclerosis.

The title of Dr. Lutgens presentation is **Immune Checkpoint Regulators in Atherosclerosis**.



The **Keynote Lecture** will be presented at 11:00 AM by **Göran K. Hansson, MD, PhD**. Dr. Hansson is Professor of Cardiovascular Research at Karolinska Institute and works in the Department of Medicine at Karolinska University Hospital and its Center for Molecular Medicine.

Dr. Hansson received his MD and PhD at Gothenburg University School of Medicine in Sweden, was a postdoctoral fellow at the University of Washington in Seattle, WA, and has been Professor of Cell Biology at Gothenburg University and Leducq Visiting Professor at Harvard Medical School in Boston, MA.

Since July 1, 2015, Dr. Hansson has been the Secretary General of the Royal Swedish Academy of Sciences. He also serves as Vice Chairman of the Board of Directors of the Nobel Foundation and has been a member of the Nobel Assembly at Karolinska Institute since 1997. He chaired its Nobel Committee 2004-2006 and was its secretary and Director of the Medical Nobel Institute 2009-2014. He is a member of Academia Europaea and has received several awards and honorary doctorates for his contributions to medicine.

Dr. Hansson's research deals with immune and inflammatory mechanisms in atherosclerosis. He discovered that atherosclerosis involves a local inflammatory immune response in the artery wall, that low-density lipoprotein (LDL) can act as an autoantigen, and that immunosuppressive drugs inhibit arterial restenosis, a principle used in current therapy. He is currently working on T cell differentiation, immunoregulatory mechanisms, and atheroprotective immunity. Dr. Hansson has published 410 scientific papers (including original papers, reviews, and chapters), supervised 24 PhD students and 18 postdoctoral fellows.

Dr. Hansson will lecture on **Immunometabolic Regulation in Atherosclerosis**.

Conference Highlights – Lectures and Awards (continued)

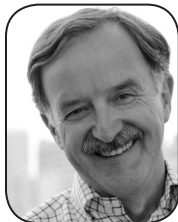


Photo by:
Sabina Louise Pierce

At 11:30 AM, **Garret A. FitzGerald, MD, FAHA**, will present the **Distinguished Lecture on Molecular Clocks and Cardiometabolic Disease**. Dr. FitzGerald is the McNeil Professor in Translational Medicine and Therapeutics at the University of Pennsylvania in Philadelphia, where he chairs the Department of Pharmacology and directs the Institute for Translational Medicine and Therapeutics.

Dr. FitzGerald's research has been characterized by an integrative approach to elucidating the mechanisms of drug action, drawing on work in cells, model organisms and humans. His work contributed substantially to the development of low-dose aspirin for cardioprotection. FitzGerald's group was the first to predict and then mechanistically explain the cardiovascular hazard from NSAIDs. He has also discovered many products of lipid peroxidation and established their utility as indices of oxidant stress in vivo. His laboratory was the first to discover a molecular clock in the cardiovascular system and has studied the importance of peripheral clocks in the regulation of cardiovascular and metabolic function. Dr. FitzGerald has received the Boyle, Coakley, Harvey and St. Patrick's Day medals, the Lucian, Scheele and Hunter Awards and the Cameron, Taylor, Herz, Lefoulon-Delalande, and Schottstein Prizes. He is a member of the Institute of Medicine and a Fellow of the American Academy of the Arts and Sciences and of the Royal Society.



Muredach P. Reilly, MBBCh, MSCE, FAHA, is the 2016 recipient of the **Mentor of Women Award**, which will be presented at the Mentor of Women Luncheon on Thursday, May 5. This award is presented annually to a member of the ATVB Council who has shown exceptional support of the careers of women in the fields of arteriosclerosis, thrombosis and vascular biology on an individual and global basis through mentoring and advocacy. This award is sponsored by the ATVB Women's Leadership Committee.

Dr. Reilly is a cardiologist and Professor of Medicine at Columbia University, and Director-designate, Irving Institute for Clinical and Translational Research, home of Columbia University's NIH CTSA Award. He has expertise in clinical cardiovascular medicine, human genetics and functional genomics, epidemiology and mechanistic translational research. His group is dedicated to translational and genomic studies and focuses on novel mechanisms of human atherosclerosis, the role on innate immunity in promoting cardio-metabolic disease, the functions of adipose tissue inflammation in insulin resistance and atherosclerotic risk, and genomic and transcriptomic discovery in human cardio-metabolic disorders. Dr. Reilly is committed to mentoring students, post-doctoral scientists and clinical residents and fellows and has done so for over 10 years. Of his 49 past or current trainees, the majority are women and over 90% remain in academic medicine. Dr. Reilly has received funding from the National Institute of Health and the American Heart Association as well as from Industry collaborations. He has served on numerous committees for the AHA and the ATVB Council including the ATVB Leadership Committee, the ATVB Early Career Committee and Chair of ATVB Conference Program Committee. He serves on the editorial board of the *ATVB* journal and has received a special recognition award in atherosclerosis from the ATVB Council of the AHA.

The **2016 ATVB Journal Young Investigator Awards** will be presented during Plenary Session III at 8:00-9:30 AM Friday, May 6. These investigators will also present their award-winning research during the Poster Session on Thursday evening



Daniel Steinberg Early Career Investigator Award in Atherosclerosis/Lipoproteins

Jenny C. Link, PhD, University of California-Los Angeles, Los Angeles, California, for her paper:

Increased HDL Cholesterol Levels in Mice with XX Versus XY Sex Chromosomes



Karl Link Early Career Investigator Award in Thrombosis

Lars Maegdefessel, MD, PhD, Karolinska Institute, Stockholm, Sweden, for his paper:

Local microRNA Modulation Using a Novel anti-miR-21-eluting Stent Effectively Prevents Experimental In-stent Restenosis



Werner Risau Early Career Investigator Award in Vascular Biology

Thomas Hoefer, PhD, Baker IDI Heart and Diabetes Institute, Melbourne, Australia, for his paper:

Drug-free Platelets can Act as Seeds for Aggregate Formation During Antiplatelet Therapy

Conference Highlights – Lectures and Awards (continued)

At 1:10 on Friday, finalists for the **Kenneth M. Brinkhous Young Investigator Prize in Thrombosis** and the **Irvine H. Page Young Investigator Research Award** will present their abstracts. The Brinkhous Prize recognizes outstanding endeavors by new investigators in fundamental and applied research in thrombosis. The Page Award encourages investigators to continue careers in arteriosclerosis and vascular biology and recognizes talented investigators at an early or beginning point in their careers. The winners of these competitions will be announced during the Council Dinner

ATVB Kenneth M. Brinkhous Young Investigator Prize in Thrombosis Finalists

Name	Presentation Number
Sudipta Biswas, PhD	40
Kyungho Kim, PhD	41
Colin A. Kretz, PhD	42
Jeremy P. Wood, PhD	43


ATVB Irvine H. Page Young Investigator Research Award Finalists

Name	Presentation Number
Gabrielle Fredman, PhD	44
Claudia Goettsch, PhD	45
Rebecca A. Haeusler, PhD	46
Eric P. van der Veer, PhD	47


The **Junior Investigator Award for Women** is sponsored by the ATVB Women's Leadership Committee and helps recruit and retain women in the field of arteriosclerosis, thrombosis and vascular biology by recognizing excellent research being conducted by women. The finalists will present their abstracts during the Thursday poster session, and the winner will be announced during the Council Dinner.

ATVB Junior Investigator Award Winner for Women Finalists

Name	Presentation Number
Amy C. Burke, BMSc	95
Rebecca C. Schugar, PhD	96
Htet W. Khine, MD	97
Anastasia Sacharidou, PhD	98
Aditi Upadhye, BS	99




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Conference Highlights – Lectures and Awards (continued)

The **ATVB Travel Awards for Young Investigators** encourage and support the efforts of early career investigators in cardiovascular research and encourage participation in ATVB and AHA activities by providing travel funds to attend the ATVB/PVD Scientific Sessions, present research in oral or poster format and engage in discussion with senior investigators.

ATVB Travel Awards for Young Investigators Winners

Name	Presentation Number
Yasir Alsiraj, MS	100
Tessa J. Barrett, PhD	49
Prameladevi Chinnasamy, MS	637
Matthew DeBerge, PhD	581
Brittany G. Durgin, MS	640
Steven J. Forrester, MS	9
Makenzie L. Fulmer, BS	643
Detao Gao, PhD	389
Scott M. Gordon, PhD	15
Anthony D. Gromovsky, BS	227
Duy Ha, BS	116
Abigail L. Healy, BS	650
Robert N. Helsley, BSc	612
Geerte Hoeke, MSc	425
Linzhang Huang, PhD	624
Alastair G. Kerr, DPhil Candidate	228
Nobuhiro Kikuchi, MD	62
Zeyneb Kurt, PhD	374
John T. Melchior, PhD	27
Kim Ramil C. Montaniel, BA	7
Alexandra A. Newman, MS	254
Kaitlyn Rinehold, MSc	594
Toshihiro Sakurai, PhD	430
Hisashi Sawada, MD	307
Xiao Yu Tian, PhD	22
Shuhui Wang, MD, PhD	549
Yuqi Zhao, PhD	58
Liye Zhou, MS	202

The American Heart Association Council on Peripheral Vascular Disease is pleased to announce the winner of the following council-sponsored awards. On Friday, these awardees will be recognized during the PVD Council Luncheon, and presented with the awards during the Council Dinner

Robert W. Hobson II, MD, Early Career Investigator Award. This award recognizes an outstanding early career investigator in the field of vascular and endovascular medicine, vascular surgery or vascular biology. Dr. Hobson is a founding member of the PVD Council and an established, well-respected clinician-investigator in vascular diseases.

PVD Robert W. Hobson II, MD, Early Career Investigator Award Winner

Name	Presentation Number
Alicia N. Lyle, PhD	11

PVD Mid-Career Investigator Award recognizes investigators who are at the mid-level of their careers and are actively involved in research related to peripheral vascular disease.

PVD Mid-Career Investigator Award Winner

Name	Presentation Number
Zhenheng Guo, PhD	316

Conference Highlights – Lectures and Awards (continued)

By providing travel support to early career investigators who wish to attend the Annual ATVB/PVD Scientific Sessions, the **PVD Travel Award for Young Investigators** honors outstanding new researchers, facilitates active participation in the annual meeting and highlights the benefits of ongoing membership in the AHA at the early career level.

PVD Travel Award for Young Investigators Winners

Name	Presentation Number
Mohammad M. Ansari, MD	311
Daniel L. Hess, BS	510
Victoria N. Osinski, BS	182
Olivia R. Palmer, MS	131
Habibunnabi Ashiqur Rahman, PhD	257
Zheng Xu, BS	54
Mohamed A. Zayed, PhD	327

The American Heart Association Council on Functional Genomics and Translational Biology is pleased to announce the recipient of the FGTB Travel Award for Young Investigators. This award supports the efforts of early career investigators in cardiovascular research and encourages participation in FGTB Council and AHA activities by providing travel funds to attend the ATVB/PVD Scientific Sessions, present research in oral or poster format and engage in discussion with senior investigators. The following awardee will be recognized during the Joint Council Dinner on Friday.

FGTB Travel Award for Young Investigators Winner

Name	Presentation Number
Sylvia T. Nurnberg, PhD	574

Web Resources

HealthJobsPLUS for Professionals

The American Heart Association, in partnership with Lippincott Williams & Wilkins (a Wolters Kluwer business), is proud to offer *HealthJobsPlus.com*. *HealthJobsPlus.com* provides a first-rate source for those seeking and posting jobs by connecting qualified healthcare professionals with top-notch employers.

Professional.heart.org

Professional Heart Daily is the American Heart Association/American Stroke Association's powerful Internet resource for healthcare professionals devoted to the fight against cardiovascular disease and stroke. Depending on the level of membership selected, AHA/ASA Professional Members may have free access to all 11 AHA scientific journals, biweekly clinical updates, core clinical textbooks, a continually updated drug database and much more. Also available from this site are links to the ATVB|PVD 2016 Scientific Sessions website, Science News, and the AHA's Professional Online Network..

learn.heart.org

This website is where healthcare professionals can complete the conference evaluation and claim CME/CE credits after the meeting. Also available on learn.heart.org are podcasts, online courses, satellite broadcasts and webcasts.

Twitter

Use Twitter to tweet your questions/comments during the meeting or just talk about what is happening at ATVB/PVD 2016. Use hashtag: - #atvbpd16.

Venue and Transportation

Welcome to Music City, Nashville, Tennessee. Long known as the “Songwriting Capital of the World,” music weaves a fundamental pattern in Nashville’s cultural, business and social fabric, and live music can be seen and heard every day and night of the week. A mild, pleasant climate and lush, green, rolling hills offer a beautiful backdrop to the incredible music, exceptional dining, fantastic shopping, exciting sporting events, historical landmarks, and thriving contemporary and theatrical arts scene in this amazing city. Experience the warm hospitality of the South in beautiful Nashville.

Ground Transportation

A variety of transportation services are available at the Nashville International Airport (BNA). Downtown Nashville is approximately 10 miles or 15 minutes from the Nashville Airport.

Taxi Service

Taxi service is available curbside outside of baggage claim. The flat rate to the downtown area is \$25, plus an additional passenger charge of \$1 when accompanying original passenger and proceeding to same destination.

Public Transportation

For just \$1.70, you can ride the Nashville MTA bus route 18 Airport/Elm Hill Pike between the Nashville International Airport and Downtown Music City. Travel time takes about 20 minutes on the express route and 30-45 minutes on the local route. Visit nashvillemta.org or call 615-862-5950 for more information on schedules and pickup locations.

Parking

The Music City Center is home to the largest parking operation in downtown Nashville with reasonable rates and 24-hour roving security.

Omni Nashville Hotel parking is available daily as follows:

- Self-park at Music City Center Garage (only available for Omni Nashville Hotel Guests with voucher obtained from Front Desk)
- \$34 Overnight Rate: Valet with in and out privileges at Omni Nashville Hotel

Ground Transportation in Nashville

- Cabs: available in downtown Nashville.
- App-based ride-sharing services Lyft and Uber operate in Nashville.
- Music City Circuit: a free circulator bus operating Monday-Saturday with three routes in downtown Nashville.
- Joyride Nashville: golf cart rides from point to point in downtown Nashville.
- Nashville B-Cycle: walk/bike – for the more athletic, downtown Nashville is an easy walk and there are also bicycles for rent.

Other Transportation Around Downtown Nashville

- Downtown Circulator: Nashville’s new clean diesel hybrid Downtown Circulator offers travelers a free and convenient way to get around downtown and The Gulch. The Green Circuit takes you between The Gulch and Riverfront Station. The Blue Circuit runs south to north serving key destinations between the Schermerhorn Symphony Center and Bicentennial Mall. The Purple Circuit runs primarily south of Broadway along Hermitage and Second Avenues and serves key destinations between Riverfront Station and the Richard H. Fulton Complex. It’s a great new way for locals and visitors alike to move around the downtown area with ease. Visit the Downtown Circulator website (nashvillemta.org) for circuit maps and schedule.
- Trolley Tour: Enjoy a hop-on hop-off sightseeing trolley tour around downtown Nashville. This tour is great for first-timers to Nashville, for those who have a limited amount of time and want to get acquainted with this fantastic city, or as transportation between locations for a full day of sightseeing. You will get the chance to hop off and explore points of interest such as: Historic Downtown Nashville, the Ryman Auditorium, the State Capitol, TPAC, the State Museum, Bicentennial Park, the Parthenon, the West End, Hillsboro Village, Music Row, The Gulch, the Frist Museum, and the Country Music Hall of Fame and Museum. Approximately \$22 per adult. Visit graylinetn.com or call (800) 251-1864

Policy Information

Disclaimer

The Arteriosclerosis, Thrombosis and Vascular Biology/Peripheral Vascular Disease 2016 Scientific Sessions is a scientific and educational conference for exchanging and discussing research results and scientific developments in the field of cerebrovascular disease. Accordingly, the American Heart Association cannot and does not offer any assurance or warranty of the accuracy, truthfulness or originality of the information presented at the conference.

Embargo Guidelines

Abstracts, lectures and presentations in ATVB/PVD 2016 are embargoed for release at the time of presentation. Information may not be released before the scheduled presentation time.

Photography/Recording Policy

No person may record any portion of the AHA Scientific Sessions, scientific conferences and the AHA/ASA International Stroke Conference, whether by video; still or digital photography; audio; or any other recording or reproduction mechanism. This includes recording of presentations and supporting AV materials and of poster presentations and supporting poster materials.

Additionally, science information shared by investigators during a meeting is confidential and often unpublished data. Taking photos of or recording the content of meeting room slides is also prohibited and is considered intellectual piracy and unethical. Attendees who ignore this policy will be asked to leave the educational session and are at risk of losing their badge credentials.

The AHA will take photographs and video during its conferences and may display, reproduce and/or distribute them in AHA educational, news or promotional material, whether in print, electronic or other media, including the AHA website. Your registration for an AHA conference is your grant to the AHA the right to use your name, image and biography for such purposes as well as any other purpose. All photographs and/or videos become the property of AHA.

No Smoking Policy

AHA policy prohibits smoking in conference meeting rooms and exhibits/registration areas. Thank you for your cooperation.

Seating/Badge Requirement

Seating is on a first-come, first-served basis. According to fire code, a session must be closed if the room fills to capacity. You must wear your name badge at all times during the symposium. Nonregistered guests may not be permitted into the sessions or food and beverage events. Be sure to remove your badge when you leave the conference or your hotel room.

The American Heart Association reserves the right to revoke or deny attendance to any registered participant, speaker, exhibitor, news media reporter or photographer of presentations or activities at AHA/ASA scientific conferences and meetings.



Americans with Disabilities Act (ADA)

We encourage participation by all individuals. If you have a disability, advance notification of any special needs will help us to serve you better. Please indicate what your needs are at the time of registration. We cannot ensure the availability of appropriate accommodations without prior notification.

Please Note: The American Heart Association shall not be liable for cancellation of the ATVB/PVD 2016 Scientific Sessions caused by labor strikes, civil disorders, fires, weather conditions, or other acts of God for any damages or losses resulting from such cancellations.

Other Meetings of Interest

The following conferences/symposia are not part of the educational activities of ATVB/PVD 2016.

Vascular Research Initiatives Conference May 4, 2016, Omni Nashville Hotel

A separate registration fee is required to attend.

The 30th annual Vascular Research Initiatives Conference (VRIC), presented by Society for Vascular Surgery® (SVS), is a one-day session preceding the main ATVB/PVD meeting, uniquely designed to foster interaction among top scientists of diverse disciplines who are investigating peripheral vascular disease and its treatments. The conference also is dedicated to stimulating and encouraging interest in research among trainees who are aspiring academic vascular surgeons.

Vanderbilt Cardiovascular Symposium 2016 State of the Art: Cardiac and Peripheral Vascular Disease Research May 4, 2016, 208 Light Hall, Vanderbilt University

This symposium, sponsored by Vanderbilt University School of Medicine, includes experts in the field of Cardiac and Peripheral Vascular Disease. The symposium begins at 11:00 AM on Wednesday, May 4 (registration opens at 10:30 AM). There is no cost to attend.

Chinese American Academy of Cardiology Symposium May 4, 2016, Omni Nashville Hotel

A separate registration fee is required to attend.

This event is hosted by the Chinese American Academy of Cardiology and the Major Program on Vascular biology by National Science Foundation of China. Join us to promote cardiovascular research excellence and collaboration. There is no cost to attend the symposium; however, a separate registration and fee is required to attend the reception and dinner.

Kinetics-Metabolism 2016 May 4, 2016, Omni Nashville Hotel

Scientists interested in lipoprotein and cellular metabolism and kinetic modeling are invited to attend KinMet 2016. This informal meeting will provide a forum for all researchers, including postgraduate students, to present some preliminary data, a complete research study, or to discuss issues related to experimental design and analysis. There is no additional cost to attend this meeting, and all registrants are invited to attend.

Workshop on HDL Structure-Function May 7-8, Omni Nashville Hotel

This workshop is an intimate and informal gathering of experts in HDL research. Its focus includes controversial and emerging topics in HDL structure and function, bringing experienced and young scientists together in an open forum. The objective of the meeting is to encourage lively debate and dialogue. There is no cost to attend, but registration is limited.

Start planning now for ATVB/PVD 2017 Scientific Sessions in Minneapolis, Minnesota, May 4-6!

Submit Abstracts

Submission Opens Wednesday, Oct. 19, 2016

Submission Closes Wednesday, Jan. 18, 2017

Presenting your science at ATVB/PVD 2017 offers you many benefits, including:

- **Networking with Leaders:** Attend ATVB/PVD and discuss your findings with research scientists and physicians within the arteriosclerosis, thrombosis, vascular biology, functional genomics, peripheral vascular disease, and vascular surgery research communities.
- **Connecting with your peers.** "The ATVB/PVD meeting highlights the latest science related to atherosclerosis, thrombosis, vascular biology and vascular medicine and at the same time provides an unprecedented opportunity to network with senior and emerging basic, translational, and clinical investigators in cardiovascular science." — Phil Tsao, PhD, Conference Vice-Chair
- **Accepted abstracts are published** in *Arteriosclerosis, Thrombosis, and Vascular Biology (ATVB)*, an American Heart Association journal. **ATVB** is top-ranked for total citations, 5-Year Impact Factor, Article Influence® Score, and Eigenfactor® Score among all journals in the Peripheral Vascular Disease and Hematology Categories, according to the 2015 Journal Citation Reports® Science Edition (Thomson Reuters, 2015): 6.008 Impact Factor, 0.05899 Eigenfactor® Score

Program Agenda

THURSDAY, MAY 5

7:00 AM

Broadway Ballroom Prefunction

Registration, Continental Breakfast and Exhibits

Breakfast provided by the Omni Nashville Hotel

7:00–8:00 AM

Broadway Ballroom E

Early Career Training

Succeeding at Every Stage:

Insights from the Early Career Committee

Organized in cooperation with the

ATVB Early Career Committee

Getting Your First Grant: Insights from Study Section

Jordan Miller, PhD, Mayo Clinic, Rochester, MN
Thomas Vallim, PhD, UCLA, Los Angeles, CA

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Clinical Practice and Research Lab Management: A Balancing Act

Nick Leeper, MD, Stanford University, Palo Alto, CA
Marcel Liberman, MD PhD, Hospital Israelita Brasileira Albert Einstein, Brazil

Know your KangaR00: Preparing a Successful K99/R00 Application

Gabrielle Fredman, PhD, Albany Medical College, Center for Cardiovascular Sciences, Albany NY

8:00–8:30 AM

Broadway Ballroom East

Conference Opening Welcome

Mark Creager, MD, FAHA, Dartmouth-Hitchcock Medical Center, Lebanon, NH, and President, American Heart Association
Philip S. Tsao, PhD, Stanford University School of Medicine and VA Palo Alto Health Care System, Stanford, CA
Joshua A. Beckman, MD, MS, FACC, FAHA, Vanderbilt University Medical Center, Nashville, TN

8:30–10:00 AM

Broadway Ballroom East

Plenary Session I

Functional Genomics: Moving From Association to Understanding

Organized in cooperation with the Council on Functional Genomics and Translational Biology

Moderators:

Jennifer Hall, PhD, FAHA, University of Minnesota, Minneapolis, MN
Muredach P. Reilly, MBBCh, MSCE, FAHA, Columbia University, New York, NY

8:30 **Ten Years and Hundreds of Novel Cardiovascular Loci: What Now?**

Erik Ingelsson, MD, PhD, FAHA, Uppsala University, Stockholm, Sweden

9:00 **TBD**

Howard J. Jacob, PhD, HudsonAlpha Institute for Biotechnology, Huntsville, AL

9:30 **From Locus Association to Mechanism of Gene Causality**

Thomas Quettermous, MD, Stanford University, Stanford, CA

10:00–10:20 AM

Broadway Ballroom Prefunction

Refreshment Break and Exhibits

THURSDAY

Program Agenda (continued)

THURSDAY

10:20 AM–12:05 PM

Broadway Ballroom E

Concurrent Session I A

Mechanisms of Atherosclerosis

Moderators:

Aldons J. Lusis, PhD, University of California
Los Angeles, Los Angeles, CA
Jonathan D. Smith, PhD, FAHA, Cleveland
Clinic, Cleveland, OH

10:20 Genes Regulating Macrophage Growth and Survival in Atherosclerotic Lesions

Aldons J. Lusis, PhD, University of California
Los Angeles, Los Angeles, CA

Oral Abstract Presentations

10:50 Atherosclerosis Regression is Dependent Upon Newly Recruited Ly6c^{high} Circulating Monocytes and their STAT6-Mediated M2 Polarization

Karishma Rahman, NYU Sch of Med, New York, NY; Yuliya Vengrenyuk, Mount Sinai Sch of Med, New York, NY; Natasha Girgis, Janssen Res & Development, Pharmaceutical Companies of Johnson & Johnson, Spring House, PA; Noemi Rotllan Vila, Yale Sch of Med, New Haven, CT; Jianhua Liu, Mount Sinai Sch of Med, New York, NY; Kathryn J Moore, P'ng Loke, Edward A. Fisher, NYU Sch of Med, New York, NY

11:05 Loss of Rictor in Macrophages Suppresses Their Viability and Reduces Atherosclerosis in LDLR Null Mice

Vladimir R. Babaev, Lei Ding, Youmin Zhang, James M. May, MacRae F. Linton, Vanderbilt Univ, Nashville, TN

11:20 Targeting Macrophage Necroptosis for Therapeutic and Diagnostic Interventions to Treat Atherosclerosis

Denuja Karunakaran, Michele Geoffrion, Lihui Wei, Wei Gan, Univ of Ottawa Heart Inst, Ottawa, ON, Canada; Ljubica Perisic, Lars Maegdefessel, Ulf Hedin, Karolinska Inst, Stockholm, Sweden; Subash Sad, Univ of Ottawa, Ottawa, ON, Canada; Terrence Ruddy, Univ of Ottawa Heart Inst, Ottawa, ON, Canada; Liang Guo, Frank Kolodgie, Renu Virmani, CVPPath Inst, Gaithersburg, MD; Katey J. Rayner, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

11:35 Enhancing the Ability of Macrophages to Orchestrate Selective Autophagy and Lysosomal Biogenesis Protects Against Atherosclerosis

Ismail Sergin, Somashubhra Bhattacharya, Xiangyu Zhang, Trent D Evans, Babak Dehestani, Roy Emanuel, Babak Razani, Washington Univ in St. Louis, St. Louis, MO

11:50 Lipid Droplet Associated Hydrolase: a New Player in Cholesterol Mobilization from Foam Cells

Younghwa Goo, Albany Medical Coll, Albany, NY; Pradip Saha, Larry Chan, Baylor Coll of Med, Houston, TX; Antoni Paul, Albany Medical Coll, Albany, NY

10:20 AM–12:05 PM

Broadway Ballroom A-B

Concurrent Session I B

Molecular, Developmental and Cellular Biology of the Vessel Wall

Moderators:

Jason Fish, PhD, University of Toronto, Toronto, ON, Canada
J. Geoffrey Pickering, MD, PhD, FRCPC, FAHA, Robarts Research Institute, London, ON, Canada

10:20 Regulation of Vascular Inflammation by microRNAs

Jason Fish, PhD, University of Toronto, Toronto, Ontario, Canada

Oral Abstract Presentations

10:50 The RNA-Binding Protein ADAR2 Controls Interleukin-6-induced Endothelial Cell Pro-inflammatory Response By Regulating MicroRNA Biogenesis

Aikaterini Gatsiou, Federica F Lunella, Carolin Amrhein, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Stefan Guenther, Claudia Garcia Gonzalez, Andre Schneider, Thomas Braun, Max-Planck Inst, Bad Nauheim, Germany; Andreas M. Zeiher, Stefanie Dimmeler, Konstantinos Stellos, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany

11:05 AntagomiR-762 Prevents and Reverses Angiotensin II Induced Aortic Stiffening

Kim Ramil C. Montaniel, Jing Wu, Vanderbilt University, Nashville, TN; Matthew R. Bersi, Yale Univ, New Haven, CT; Liang Xiao, Hana A. Itani, Kasey C. Vickers, Vanderbilt University, Nashville, TN; Jay D. Humhrey, Yale Univ, New Haven, CT; David G. Harrison, Vanderbilt University, Nashville, TN

11:20 The Membrane-associated Guanylate Kinase Ww and Pdz Domain-containing Protein 1 magi1 is Required for Disturbed Flow-induced Endothelial Inflammation and Atherosclerotic Plaque Formation

Ikjae Shin, Jong Hak Won, Kyung Ae Ko, Ji-Hyun Shin, Elena McBeath, Tamlyn Thomas, Carolyn Giancursio, Quintana-Quezada RA, Jack Taunton, Hiroshi Hosokawa, Naoki Mochizuki, Edward T.H. YEH, Jun-ichi Abe, Keigi Fujiwara, Nhat Tu Le, MD Anderson Cancer Center, Houston, TX

Program Agenda (continued)

11:35 **Involvement of Caveolin-1 in Vascular Remodeling and Inflammation Induced by Angiotensin II**
Steven J Forrester, Tatsuo Kawai, Katherine J. Elliott, Takashi Obama, Takehiko Takayanagi, Kevin Crawford, Satoru Eguchi, Victor Rizzo, Temple Univ, Philadelphia, PA

11:50 **The Matrix Crosslinking Enzyme Lysyl Oxidase Like-2 as a Target to Reverse Vascular Stiffness**
Jochen Steppan, Ivy Wang, Yehudit Bergman, Siqi Tan, Sandeep Jandu, Sean Melucci, Dan E. Berkowitz, Lakshmi Santhanam, Johns Hopkins Univ, Baltimore, MD

10:20 AM–12:05 PM

Broadway Ballroom C-D

Concurrent Session I C

Translational Science of Vascular Medicine: Vascular Dysfunction

Organized in cooperation with the Council on Peripheral Vascular Disease

Moderators:

Iris Z. Jaffe, MD, PhD, Tufts University School of Medicine, Boston, MA

Joshua A. Beckman, MD, MS, FAHA, FACC, Vanderbilt University Medical Center, Nashville, TN

10:20 **A Key Driver Gene for Hypertension Drives Vascular Inflammation and Dysfunction: Role of LNK/SH2B3 in Mice and Men**
Meenakshi S. Madhur, Vanderbilt University School of Medicine, Nashville, TN

10:50 **Vascular Dysfunction and Rising Blood Pressure with Aging: An Epigenetic Mechanism with Translational Implications**
Iris Z. Jaffe, MD, PhD, Tufts University School of Medicine, Boston, MA

Oral Abstract Presentations

11:20 **The Role of Human Osteopontin Isoforms in Post-Ischemic Neovascularization**
Alicia N. Lyle, Courtney M Caroti, Grace Sang Hee Lee, Giji Joseph, Saghar Harirforoosh, Joseph Vereen, Daiana Weiss, W. Robert Taylor, Emory Univ, Atlanta, GA

11:35 **Nanotechnology-enabled Anti-mir-320 Therapy For Inhibiting Pathological Vasoconstriction**
Thomas A. Werfel, Kyle M. Hocking, Kameron V. Kilchrist, Colleen Brophy, Craig L. Duvall, Vanderbilt Univ, Nashville, TN

9 11:50 **Targeting the PERK Pathway of ER Stress Response for Endothelium Protection and Restenosis Prevention: A Paradigm for Developing Anti-thrombogenic Stents**
Bowen Wang, Mengxue Zhang, Xudong Shi, Lian-Wang Guo, Michael Hoffmann, Craig Kent, Univ of Wisconsin Madison, Madison, WI

12:05–1:25 PM

Cumberland 1-2 (Level 3)

The Mentor of Women Award Luncheon (ticket required)

Pursuing Your Dream Biomedical Career: Sit It Out or Dance? I Hope You ‘D.A.N.N.C.E.!’

Zorina Galis, PhD, NIH/NHLBI, Bethesda, Maryland

12:05–1:25 PM

Music Row 5 (Level 2)

PVD Annual Business Meeting and Networking Luncheon (ticket required)

12:05-1:25 pm

Cumberland 5-6 (Level 3)

An Update on Arterial Thrombosis Pathophysiology and Management

Supported by Merck; Lunch provided by AHA

This event is not part of the official ATVB/PVD conference

Or lunch on your own

1:25–2:55 PM

Broadway Ballroom East

Plenary Session II

Inflammation, Thrombosis and Vascular Disease

Moderators:

Lars Maegdefessel, MD, PhD, Karolinska Institute, Stockholm, Sweden

David G. Harrison, MD, FAHA, Vanderbilt University School of Medicine, Nashville, TN

1:25 **Oxidized Phospholipids: New Insights Into Their Roles in Atherosclerosis and Lp(a)**
Joseph L. Witztum, MD, FAHA, University of California, San Diego, La Jolla, CA

1:55 **NETs Fueling Cardiovascular and Thrombotic Disease**
Denisa D. Wagner, PhD, FAHA, Boston Children's Hospital, Harvard Medical School, Boston, MA

2:25 **Patient-specific Blood Phenotypes in a Hemodynamic Context**
Scott Diamond, PhD, University of Pennsylvania, Philadelphia, PA

2:55–3:15 PM

Broadway Ballroom Prefunction

Refreshment Break and Exhibits

THURSDAY

3:15–5:00 PM

Broadway Ballroom E

Concurrent Session II A

Apolipoproteins and Lipid Metabolism

Moderators:

Gordon A. Francis, MD, FRCPC, University of British Columbia and St. Paul's Hospital, Vancouver, BC, Canada

Daisy Sahoo, PhD, Medical College of Wisconsin, Milwaukee, WI

3:15 Quantitation and Mechanisms of Smooth Muscle Foam Cell Formation in Human and Mouse Atherosclerosis

Gordon A. Francis, MD, FRCPC, University of British Columbia and St. Paul's Hospital, Vancouver, BC, Canada

Oral Abstract Presentations

3:45 The Anti-atherosclerosis ABCA1 Agonist CS6253 Confer Glucose Control by Improved Pancreas Beta-cell Insulin Secretion and Enhanced Peripheral Insulin Utility

John K. Bielicki, Lawrence Berkeley Natl Lab, Berkeley, CA; Anouar Hafiane, Jacques Genest, Cardiovascular Genetics Lab, Cardiology Div, Montreal, QC, Canada; **Jan O. Johansson**, Artery Therapeutics, San Ramon, CA; Stefanie Bittner, Geriatric Res, Education and Clinical Ctr, Palo Alto, CA; Jie Hu, Juveri Tabassum, Salman Azhar, Geriatric Res, Education, and Clinical Ctr, Palo Alto, CA

4:00 Identification of a High Density Lipoprotein Proteomic Signature Associated with Atherosclerosis Severity in Humans

Scott M. Gordon, Natl Insts of Health, Bethesda, MD; Tiange Cui, George Mason Univ, Fairfax, VA; Denis Sviridov, Natl Insts of Health, Bethesda, MD; Ancha Baranova, George Mason Univ, Fairfax, VA; Marcus Chen, Alan T Remaley, Natl Insts of Health, Bethesda, MD

4:15 BcrKinase is a Novel Akt Kinase that Modulates Scavenger Receptor BI- and PDZK1-dependent Actions of HDL in Endothelium

Anastasia Sacharidou, Wan-Ru Lee, Philip E. Shaul, Chieko Mineo, UT Southwestern Medical Ctr, Dallas, TX

4:30 APOC3 A43T Variant Promotes ApoC-III Catabolism and Accelerates TG-rich Lipoprotein Clearance in Mice and Humans

Sumeet A. Khetarpal, John S. Millar, Amritha Varshini, Cecilia Vitali, Univ of Pennsylvania, Philadelphia, PA; Xuemei Zeng, Univ of Pittsburgh, Pittsburgh, PA; Paolo Zanoni, Univ of Pennsylvania, Philadelphia, PA; Zhiyuan Sun, Univ of Pittsburgh, Pittsburgh, PA; David Nguyen, James T. McParland, Mary G. McCoy, Univ of Pennsylvania, Philadelphia, PA; Pradeep

Natarajan, Massachusetts General Hosp, Boston, MA; Marina Cuchel, Leland Mayne, S. Walter Englander, Sissel Lund-Katz, Michael C. Phillips, Univ of Pennsylvania, Philadelphia, PA; Nathan A. Yates, Univ of Pittsburgh, Pittsburgh, PA; Sekar Kathiresan, Massachusetts General Hosp, Boston, MA; Daniel J. Rader, Univ of Pennsylvania, Philadelphia, PA

4:45 Bempedoic Acid Lowers Low Density Lipoprotein-Cholesterol and Attenuates Aortic Atherosclerosis in LDL Receptor-Deficient (LDLR^{-/-} and LDLR^{-/-}) Yucatan Miniature Pigs

Amy C. Burke, Dawn E. Telford, Brian G. Sutherland, Jane .Y Edwards, Cynthia G. Sawyez, Univ of Western Ontario, London, ON, Canada; Roger S Newton, Esperion Therapeutics Inc., Ann Arbor, MI; Murray W. Huff, Univ of Western Ontario, London, ON, Canada

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3:15–5:00 PM

Broadway Ballroom A-B

Concurrent Session II B

Immunity and Inflammation in Vascular Biology and Thrombosis

Moderators:

Timothy T. Hla, PhD, Cornell University, Weill Cornell Medical College, New York, NY
Hong Wang, MD, PhD, EMBA, FAHA, Temple University School of Medicine, Philadelphia, PA

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3:15 Chaperone-dependent Signaling of Sphingosine 1-phosphate

Timothy T. Hla, PhD, Cornell University, Weill Cornell Medical College, New York, NY

Oral Abstract Presentations

3:45 Role of Adenosine-to-Inosine RNA Editing of *Alu* Elements in Human Vascular Inflammatory Diseases

Konstantinos Stellos, Aikaterini Gatsiou, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Kimon Stamatelopoulos, Alexandra Hosp, Univ of Athens, Athens, Greece; Ljubica Perisic, Karolinska Inst, Stockholm, Sweden; David John, Federica F. Lunella, Nicolas Jae, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Oliver Rossbach, Univ of Giessen, Giessen, Germany; Carolin Amrhein, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Frangiska Sigala, Hippocratio General Hosp, Univ of Athens, Athens, Greece; Reinier A. Boon, Boris Fuertig, Yosif Manavski, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Xintian You, Max Delbrück Ctr for Molecular Med Berlin-Buch, Berlin, Germany; Shizuka Uchida, Till Keller, Jes-Niels Boeckel, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Anders Franco-

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Program Agenda (continued)

- Cereceda, Lars Maegdefessel, Karolinska Inst, Stockholm, Sweden; Wei Chen, Max Delbrück Ctr for Molecular Med Berlin-Buch, Berlin, Germany; Harald Schwalbe, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Albrecht Bindereif, Univ of Giessen, Frankfurt am Main, Germany; Per Eriksson, Ulf Hedin, Karolinska Inst, Stockholm, Germany; Andreas M. Zeiher, Stefanie Dimmeler, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany
- 4:00 **Nogo-B Controls Inflammation by Regulating Autophagy in Macrophage** 20
Bo Tao, Jun Yu, Yale Univ Sch of Med, New Haven, CT
- 4:15 **A Natural Repertoire of T Cells Recognizing ApoB-100 is Generated Early in Life and is Progressively Depleted During Atherosclerotic Disease** 21
Dennis Wolf, Teresa Gerhardt, Jacqueline Miller, Sara McArdle, Takayuki Kimura, La Jolla Inst for Allergy and Immunology, San Diego, CA; Marc Jenkins, Univ of Minnesota Medical Sch, Minneapolis, MN; Klaus Ley, La Jolla Inst for Allergy and Immunology, San Diego, CA
- 4:30 **Absence of Circadian Gene Bmal1 in Macrophage Enhances Atherosclerosis** 22
Xiao Yu Tian, Yuhong Huang, Chinese Univ of Hong Kong, Hong Kong, Hong Kong; Wing Tak Wong, Houston Methodist Res Inst, Houston, TX; Ajay Chawla, Univ of California San Francisco, San Francisco, CA; Yu Huang, Chinese Univ of Hong Kong, Hong Kong, Hong Kong
- 4:45 **Microrna302-367 Sphingosine 1 Phosphate Receptor 1 Pathway Prevents Tumor Growth Via Restricting Angiogenesis and Enhancing Vascular Stability** 23
Jinjiang Pi, Shanghai East Hosp affiliated to Tongji Univ school of medicine, Shanghai, China; Ting Tao, Jiaotong Univ, Sch of Med, Shanghai, China; Tao Zhuang, Huimin Sun, Xiaoli Chen, Yixin Shen, Zuoren Yu, Shanghai East Hosp affiliated to Tongji Univ school of medicine, Shanghai, China; Helen He Zhu, Wei-qiang Gao, Jiaotong Univ Sch of Med, Shanghai, China; Yuanzhen Suo, Shanghai Jiao Tong Univ, Shanghai, China; Xunbin Wei, Jiaotong Univ Sch of Med, Shanghai, China; Xiangjian Zheng, Centenary Inst, Camperdown, Australia; Ying Tian, Temple Univ Sch of Med, Philadelphia, PA; Edward Morrissey, Univ of Pennsylvania, Philadelphia, PA; Lin Zhang, Yuzhen Zhang, Shanghai East Hosp affiliated to Tongji Univ school of medicine, Shanghai, China
- 3:15–5:00 PM
Broadway Ballroom C-D
Concurrent Session II C
Translational Science of Vascular Medicine: Aneurysmal Disease
Organized in cooperation with the Council on Peripheral Vascular Disease
- Moderators:**
Christine T.N. Pham, MD, Washington University School of Medicine, St. Louis, MO
Michael S. Conte, MD, FAHA, FACS, University of California, San Francisco, San Francisco, CA
- 3:15 **Inflammatory Responses in Abdominal Aortic Aneurysm: Emerging Targets for Therapy?**
Christine T.N. Pham, MD, Washington University School of Medicine, St. Louis, MO
- 3:45 **The Unique Challenges of Developing Novel Therapies for Abdominal Aortic Aneurysms**
John A. Curci, MD, FACS, Vanderbilt University Medical Center, Nashville, TN
- Oral Abstract Presentations**
- 4:15 **NETosis is Associated with Abdominal Aortic Aneurysm Rupture** 24
Sean J. English, Hassan Albadawi, Hyung-Jin Yoo, Massachusetts General Hosp, Boston, MA; Kimberly Martinod, Boston Children's Hosp, Boston, MA; Jose A. Diaz, Univ of Michigan Health System, Ann Arbor, MI; Akshaya Meher, Gilbert R. Upchurch Jr, Univ of Virginia, Charlottesville, VA; Denisa Wagner, Boston Children's Hosp, Boston, MA; Michael T. Watkins, Massachusetts General Hosp, Boston, MA
- 4:30 **Inducible Depletion of Calpain-2 Attenuates Angiotensin II-induced Cytoskeletal Structural Protein Destruction During Abdominal Aortic Aneurysm Development in Mice** 25
Latha Muniappan, Aida Javidan, Weihua Jiang, Jessica J. Moorlegghen, Anju Balakrishnan, Deborah A. Howatt, Venkateswaran Subramanian, University of Kentucky, Lexington, KY
- 4:45 **Low Plasma Mir-155 Levels and RhoA Activation Correlates with Small AAA Expansion** 26
Eugene S. Lee, Univ of California, Davis, Sacramento, CA; Anthony Nguyen, Paramita Ghosh, Angelica Rona, Arash Afkhami, Sacramento VA Medical Ctr, Mather, CA

4:30–6:30 PM

Cumberland 1-2 (Level 3)

Next-Generation Technology Bootcamp 1 Sequencing Data Interpretation

Organized in cooperation with the Council on Functional Genomics and Translational Biology.

Separate registration required.

Instructors/Facilitators:

Pankaj Arora, MD, University of Alabama at Birmingham, Birmingham, AL
Alexandra Chadwick, PhD, Medical College of Wisconsin, Milwaukee, WI
Jane F. Ferguson, PhD, Vanderbilt University Medical Center, Nashville, TN
Sumeet Khetarpal, MS, University of Pennsylvania, Philadelphia, PA
Jennie Lin, MD, University of Pennsylvania, Philadelphia, PA
Kiran Musunuru, MD, PhD, MPH, FAHA, University of Pennsylvania, Philadelphia, PA
Sylvia T. Nurnberg, PhD, University of Pennsylvania, Philadelphia, PA
Xuan Zhang, PhD, Columbia University, New York, NY

5:00–6:00 PM

Broadway Ballroom C-D

Innovation to Impact: Beginning the Process

Turning Discovery in Health: the NIH Translation Paradigm

Zorina Galis, PhD, NHLBI, Bethesda, MD

Bringing Your Innovations to Market

TBD

Panelists:

Marc Charette, PhD, NHLBI, Bethesda, MD
Joseph Berglund, PhD, Medtronic Cardiovascular, Coronary & Renal Denervation
Chad Johnson, PhD, Cook Regentec, Indianapolis, IN

6:00–7:00 PM

Legends Ballroom Prefunction

Moderated PVD Poster Session

Organized in cooperation with the Council on Peripheral Vascular Disease

Facilitator:

TBD

6:00–8:00 PM

Legends Ballroom

Poster Session I and Reception

Reception sponsored by the ATVB Journal

FRIDAY, MAY 6

7:00 AM

Broadway Ballroom Prefunction

Registration, Continental Breakfast and Exhibits

7:00–8:00 AM

Broadway Ballroom Prefunction

Early Career Training Session Speed Networking: Coffee, Careers and Communication

Organized in cooperation with the ATVB Early Career Committee

8:00–9:30 AM

Broadway Ballroom East

Plenary Session III Highlights from the ATVB Journal

Moderators:

Nigel Mackman, PhD, FAHA, University of North Carolina, Chapel Hill, NC
Katey Rayner, PhD, University of Ottawa Heart Institute, Ottawa, ON, Canada

8:00 **ATVB Journal Report**

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

Presentations by the 2016 ATVB Journal Early Career Investigator Award Recipients

- 8:15 *Daniel Steinberg Early Career Investigator Award in Atherosclerosis/Lipoproteins*
Increased HDL Cholesterol Levels in Mice with XX Versus XY Sex Chromosomes
Jenny C. Link, PhD, University of California-Los Angeles, Los Angeles, CA
- 8:30 *Karl Link Career Investigator Award in Thrombosis*
Local microRNA Modulation Using a Novel anti-miR-21-eluting Stent Effectively Prevents Experimental In-stent Restenosis
Lars Maegdefessel, MD, PhD, Karolinska Institute, Stockholm, Sweden
- 8:45 *Werner Risau Early Career Investigator Award in Vascular Biology*
Drug-free Platelets can Act as Seeds for Aggregate Formation During Antiplatelet Therapy
Thomas Hofer, PhD, Baker IDI Heart and Diabetes Institute, Melbourne, Australia
- 9:00 **RAGE Signal Transduction: Mechanisms of Obesity, Diabetes and its Complications**
Ann Marie Schmidt, MD, New York University Langone Medical Center, New York, NY

Program Agenda (continued)

9:30–9:50 AM

Broadway Ballroom Prefunction

**Refreshment Break
and Exhibits**

9:50–11:35 AM

Broadway Ballroom E

**Concurrent Session III A
Lipoprotein Metabolism and
Therapeutic Targets**

Moderators:

Frank Sacks, MD, FAHA, Harvard University,
Boston, MA

Kerry Anne Rye, PhD, FAHA, University of
New South Wales, Kensington, NSW, Australia

- 9:50 **Apolipoprotein C-III: Mechanisms That
Connect Basic Science, Metabolism and
Population Science**
Frank Sacks, MD, FAHA, Harvard University,
Boston, MA

Oral Abstract Presentations

- 10:20 **Structure of Lipid-Free and Lipid-bound
Apolipoprotein A-I Determined by Stable
Isotope-assisted Cross-linking and Small
Angle X-ray Scattering** 27
John T. Melchior, Jamie C. Morris, Ryan G.
Walker, Univ of Cincinnati, Cincinnati, OH;
Martin K. Jones, Jere P. Segrest, University of
Alabama at Birmingham, Birmingham, AL;
Thomas B. Thompson, W. Sean Davidson,
Univ of Cincinnati, Cincinnati, OH
- 10:35 **Adiponectin Stimulates Cholesterol Efflux
Efficiently in Human THP-1 Macrophages
and Modulates HDL-apoA-I Biogenesis** 28
Karina Gasbarrino, Anouar Hafiane, McGill
Univ, Montreal, QC, Canada; Jacques Genest,
McGill Univ Health Ctr, Montreal, QC, Canada;
Stella Styliani Daskalopoulou, McGill Univ,
Montreal, QC, Canada
- 10:50 **Alpha-1-antitrypsin Protects High Density
Lipoprotein from Functional Inactivation by
Elastase** 29
Scott M. Gordon, Denis Sviridov, Toshihiro
Sakurai, Lita Freeman, Alan T. Remaley, Natl
Insts of Health, Bethesda, MD
- 11:05 **ApoE and ApoCIII Interact to Modulate the
Metabolism of HDL ApoA-I in Humans** 30
Allyson Morton, Harvard Sch of Public Health,
Boston, MA; Carlos O Mendivil, Univ de los
Andes, Bogota, Colombia; Liyun Wang, Roche
Pharmaceuticals, Shanghai, China; Jeremy D.
Furtado, Frank M. Sacks, Harvard Sch of Public
Health, Boston, MA

11:20

**Resolvin D1 Attenuates PDGF-
induced Vascular Smooth Muscle
Cell Migration via the cAMP Pathway**
Giorgio Mottola, Bian Wu, Anuran
Chatterjee, Mian Chen, Michael S.
Conte, UCSF, San Francisco, CA

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9:50–11:35 AM

Broadway Ballroom A-B

**Concurrent Session III B
Blood Coagulation and Antithrombotic Therapy**

Moderators:

Heyu Ni, MD, PhD, University of Toronto,
St. Michael's Hospital, Toronto, Ontario, Canada
Alisa Wolberg, PhD, University of North Carolina,
Chapel Hill, NC

- 9:50 **Fibronectin in Hemostasis and Thrombosis –
Old Questions and New Discoveries**
Heyu Ni, MD, PhD, University of Toronto,
St. Michael's Hospital, Toronto, ON, Canada

Oral Abstract Presentations

- 10:20 **Analysis of Serum Clopidogrel Active
Metabolite Concentration Identifies
Novel Genetic Variants Associated With
Clopidogrel Pharmacokinetics** 32
Joshua D. Backman, Joshua P. Lewis,
Richard B. Horenstein, Univ of Maryland-
Baltimore, Baltimore, MD; Michael A.
Pacanowski, FDA, Silver Spring, MD; William D.
Figg, Natl Cancer Inst, Bethesda, MD; Alan R.
Shuldiner, Jeffrey R O'Connell, Laura M. Yerges-
Armstrong, Univ of Maryland-Baltimore,
Baltimore, MD
- 10:35 **Platelet 12-lipoxygenase is a Key Regulator
of Platelet Reactivity and Thrombus
Formation In Vivo** 33
Reheman Adili, Katherine Mast, Univ of Michigan,
Ann Arbor, MI; Theodore R Holman, Univ of
California Santa Cruz, Ann Arbor, MI; **Michael
Holinstat**, Univ of Michigan, Ann Arbor, MI
- 10:50 **Impact of Thrombomodulin and Thrombin-
activatable Fibrinolysis Inhibitor on the
Anti-coagulant and Pro-fibrinolytic Effects
of Rivaroxaban** 34
Justin J. Garabon, Michael B. Boffa, Univ of
Windsor, Windsor, ON, Canada
- 11:05 **DVT Inflammation Assessed by 18F-
FDG-PET/CT Predicts Subsequent Vein
Wall Scarring** 35
Chase W. Kessinger, Amhed Tawakol,
Gregory R. Wojtkiewicz, MGH/Harvard Medical
Sch, Boston, MA; Peter K. Henke, Univ of
Michigan, Ann Arbor, MI; Ralph Weissleder,
Farouc A. Jaffer, MGH/Harvard Medical Sch,
Boston, MA

FRIDAY

Program Agenda (continued)

11:20 **Alpha 2-antiplasmin Prevents the Resolution of Deep Vein Thrombosis** 36
Satish Singh, Aiiyan K. Houg, Samantha Howard, B. Tyler Emerson, Guy L. Reed, Univ of Tennessee Health Science Ctr, Memphis, TN

9:50–11:35 AM

Broadway Ballroom C-D

Concurrent Session III C

Translational Science in Venous Thromboembolic Disease

Organized in cooperation with the Council on Peripheral Vascular Disease and the American Venous Forum

Moderators:

José A. Diaz, MD, University of Michigan, Ann Arbor, MI
 Aruna Pradhan, MD, MPH, Brigham and Women's Hospital, Boston, MA

9:50 **Clinical and Hemodynamic Insight into the Mechanisms of Initiation of Venous Thrombosis**
 Fedor Lurie, MD, PHD, Jobst Vascular Institute, Toledo, OH

10:20 **Animal Models of VT: Where Are We?**
 José A. Diaz, MD, University of Michigan, Ann Arbor, MI

Oral Abstract Presentations

10:50 **Measure of Appropriateness in the Placement of Intravenacaval Filters Among Guidelines from Major Medical Societies** 37
Braghadheeswar Thyagarajan, Shil Patel, Natalie Swergold, Sayee Sundar Alagusundaramoorthy, Isha Verma, Thomas Baker, Margaret Eng, Monmouth Medical Ctr, Long Branch, NJ

11:05 **Integration of Different Platelet Activity Assays into a Reproducible Platelet Score** 38
Jeffrey S. Berger, Emilie Montenont, Liza Karotkin, Nicole M Allen, Michael A. Nardi, Jinfeng Xu, Yu Guo, Judith S. Hochman, New York University Schl Med, New York, NY

11:20 **Platelet Reactivity to Prostaglandin E2 is a Novel Modifiable Risk Factor for St-Elevation Myocardial Infarction** 39
 Eitan A. Friedman, Elias V. Haddad, Valentinas Joksas, Shi Huang, Meng Xu, **Olivier Boutaud**, Vanderbilt Univ, Nashville, TN

11:35 AM–1:10 PM
Cumberland 1-2 (Level 3)
Luncheon Workshop
(ticket required)

Think Fast, Talk Smart: Skills for Effective Presenting
 Matt F. Abrahams, Stanford Graduate School of Business, Stanford, CA

Or lunch on your own

1:10–3:10 PM
Broadway Ballroom East
Plenary Session IV
Young Investigator Award Competition

Moderators:
 Joseph Italiano, PhD, Brigham and Women's Hospital, Boston, MA
 Jonathan D. Smith, PhD, FAHA, Cleveland Clinic, Cleveland, OH

Kenneth M. Brinkhous Young Investigator Prize in Thrombosis Competition

1:10 **Prothrombotic Role of Platelet Tlr2 in Hyperlipidemia** 40
Sudipta Biswas, Cleveland Clinic Fndn Learner Res Inst, Cleveland, OH; Liang Xin, Case Western Reserve Univ, Cleveland, OH; Soumya Panigrahi, Alejandro Zimman, Valentin Yakubenko, Tatiana Byzova, Cleveland Clinic Fndn Learner Res Inst, Cleveland, OH; Robert Salomon, Case Western Reserve Univ, Cleveland, OH; Eugene Podrez, Cleveland Clinic Fndn Learner Res Inst, Cleveland, OH

1:25 **Platelet Dream Plays A Critical Role During Thrombogenesis In Mice** 41
Kyungho Kim, Alan Tseng, Andrew Barazia, Univ of Illinois at Chicago, Chicago, IL; Joseph E. Italiano, Brigham and Women's Hosp and Harvard Medical Sch, Boston, MA; Jaehyung Cho, Univ of Illinois at Chicago, Chicago, IL

1:40 **Genetic Ablation of TMEM16F Exhibits Strain-specific Lethality in Mice** 42
Colin A. Kretz, Univ of Michigan, Ann Arbor, MI; Gary Gilbert, Brigham and Women's Hosp, Boston, MA; David Ginsburg, Univ of Michigan, Ann Arbor, MI

1:55 **Prothrombinase Assembled with Factor V Leiden is Resistant to Inhibition by Tissue Factor Pathway Inhibitor α Lowering the Procoagulant Threshold for Initiation of Coagulation** 43
Jeremy P. Wood, Lisa M. Baumann Kreuziger, Susan A. Maroney, Blood Ctr of Wisconsin, Milwaukee, WI; Rodney M. Camire, Univ of Pennsylvania, Philadelphia, PA; Alan E. Mast, Blood Ctr of Wisconsin, Milwaukee, WI

FRIDAY

Program Agenda (continued)

Irvine H. Page Young Investigator Research Award Competition

- 2:10 **Atherosclerosis Progression is Associated With a Decrease in Pro-Resolving Mediators and Can Be Mitigated with Restoring Resolvin D1** 44
Gabrielle Fredman, Albany Medical Coll, Albany, NY; Jason Hellmann, Brigham and Women's Hosp/Harvard Medical Sch, Boston, MA; Jonathan Proto, Columbia Univ, New York, NY; Romain Colas, Matthew Spite, Brigham and Women's Hosp/Harvard Medical Sch, Boston, MA; Ira Tabas, Columbia Univ, New York, NY
- 2:25 **Sortilin Regulates Arterial Calcification in Atherosclerotic Mice and Associates with Cardiovascular Risk in Humans** 45
Claudia Goettsch, Joshua Hutcheson, Hiroshi Iwata, Sumihiko Hagita, Peter Libby, Masanori Aikawa, Brigham and Women's Hosp, Harvard Medical Sch, Boston, MA; Pawel Szulc, Univ of Lyon, Lyon, France; Elena Aikawa, Brigham and Women's Hosp, Harvard Medical Sch, Boston, MA
- 2:40 **Bile Acid Synthesis and 12-Hydroxylation are Increased, and Bile Acid Transport is Impaired in Human Obesity** 46
Rebecca Haeusler, Columbia Univ, New York, NY; Stefania Camastra, Monica Nannipieri, Brenno Astiarraga, Univ of Pisa Sch of Med, Pisa, Italy; Jose Castro-Perez, Dan Xie, Liangsu Wang, Manu Chakravarthy, Merck Res Labs, Kenilworth, NJ; Ele Ferrannini, CNR Inst of Clinical Physiology, Pisa, Italy
- 2:55 **Quaking Post-Transcriptionally Promotes Differentiation of Monocytes into Pro-Atherogenic Macrophages by Controlling pre-mRNA Splicing and Gene Expression** 47
Ruben G. de Bruin, Leiden Univ Medical Ctr, Leiden, Netherlands; Lily Shiue, Univ of California Santa Cruz, Santa Cruz, CA; Jurrien Prins, Hetty C. de Boer, Leiden Univ Medical Ctr, Leiden, Netherlands; Anjana Djaramshi, Maastricht Univ Medical Ctr, Maastricht, Netherlands; W. Samuel Fagg, Univ of California Santa Cruz, Santa Cruz, CA; Janine M. van Gils, Leiden Univ Medical Ctr, Leiden, Netherlands; Sol Katzman, John P. Donahue, Univ of California Santa Cruz, Santa Cruz, CA; Hilde van Esch, Leuven Univ Hosp, Leuven, Belgium; Ton J Rabelink, Leiden Univ Medical Ctr, Leiden, Netherlands; Hilal Kazan, Antalya Intl Univ, Antalya, Turkey; Erik A. Biessen, Maastricht Univ Medical Ctr, Maastricht, Netherlands; Manuel Ares Jr., Univ of California Santa Cruz, Santa Cruz, CA; Anton Jan van Zonneveld, **Eric P. van der Veer**, Leiden Univ Medical Ctr, Leiden, Netherlands

3:10–3:30 PM
Broadway Ballroom Prefunction
Refreshment Break and Exhibits

3:30–5:15 PM
Broadway Ballroom E
**Concurrent Session IV A
Diabetes, Obesity and Metabolic Disorders**

Moderators:
Lisa Junitti-Berggren, MD, PhD, Karolinska Institutet, Stockholm, Sweden
Katey Rayner, PhD, University of Ottawa Heart Institute, Ottawa, ON, Canada

- 3:30 **Apolipoprotein CIII Links Insulin Resistance to Islet-cell Dysfunction**
Lisa Junitti-Berggren, MD, PhD, Karolinska Institutet, Stockholm, Sweden

Oral Abstract Presentations

- 4:00 **Administration of Gut Bacteria Expressing N-acyl Phosphatidylethanolamine Reduces Steatohepatitis In LDLR-/- Mice Fed a Western Diet** 48
Linda S. Zhang, Zhongyi Chen, Youming Zhang, Lei Ding, Patricia G. Yancey, Arion Kennedy, MacRae F. Linton, Alyssa Hasty, Sean S. Davies, Vanderbilt Univ, Nashville, TN
- 4:15 **Elevating Apolipoprotein A-I Levels Promotes Atherosclerosis Regression in Diabetic Mice by Inhibiting Proliferation of Bone Marrow Monocyte Precursors** 49
Tessa J. Barrett, Emilie Distel, Yoscar Ogando, Yarityz M. Astudillo, NYU Sch of Med, New York, NY; Jianhua Liu, Mount Sinai Sch of Med, New York, NY; Ira J. Goldberg, NYU Sch of Med, New York, NY; Andrew J. Murphy, Baker IDI Heart and Diabetes Inst, Melbourne, Australia; Edward A. Fisher, NYU Sch of Med, New York, NY
- 4:30 **Procollagen C-endopeptidase Enhancer protein 2 (PCPE2) Deficiency Profoundly Affects Adipose Distribution in Mice and Humans and Links HDL Metabolism to Adipocyte Biology** 50
Sushma Kaul, Elisa Maruko, Hao Xu, Medical Coll of Wisconsin, Milwaukee, WI; Mete Civelek, Univeristy of Virginia, Charlottesville, VA; Craig Glastonbury, Kerrin S. Small, King's Coll London, London, United Kingdom; Geesje M. Dallinga-Thie, Academic Medical Ctr of the Univ van Amsterdam, Amsterdam Zuid-Oost, Netherlands; Michael J. Thomas, Medical Coll of Wisconsin, Milwaukee, WI; Ira Goldberg, New York Univ, New York, NY; **Mary Sorci-Thomas**, Medical Coll of Wisconsin, Milwaukee, WI

FRIDAY

Program Agenda (continued)

- 4:45 **Allograft Inflammatory Factor-1 Deficiency Prevents Obesity and Insulin Resistance by Promoting Brown and Beige Adipocyte Thermogenic Programs**
Prameladevi Chinnasamy, Aparna Srinivasan, Albert Einstein Coll of Med, Bronx, NY; Isabel Casimiro, Univ of Chicago, Chicago, IL; Dario F. Riascos-Bernal, **Nicholas E. Sibinga**, Albert Einstein Coll of Med, Bronx, NY1
- 5:00 **Efficacy and Safety of Mipomersen in Patients with Familial Hypercholesterolemia and Inadequately Controlled LDL-C Levels**
Christie Ballantyne, Baylor Coll of Med, Houston, TX; Alberico L. Catapano, Univ of Milan, Milan, Italy; Michael Davidson, Univ of Chicago, Chicago, IL; Robert Mittleman, Ironwood Pharmaceuticals, Cambridge, MA; Patrick M. Moriarty, Univ of Kansas, Kansas City, KS; Raul D. Santos, Univ of Sao Paulo, Sao Paulo, Brazil; Charlotte Sensinger, Samarita de Banerjee, Genzyme, Cambridge, MA; Walter Singleton, Brenda F Baker, Ionis Pharmaceuticals, Inc, Carlsbad, CA; Handrean Soran, Central Manchester Univ Hosp NHS Fndn Trust, Manchester, United Kingdom; Sotorios Tsimikas, Univ of California, San Diego, San Diego, CA; John J Kastelein, Univ of Amsterdam, Amsterdam, Netherlands
- 4:30 **Traf3 Negatively Regulates Platelet Activation and Thrombosis**
Rui Zhang, Guoying Zhang, Binggang Xiang, Univ of Kentucky, Lexington, Lexington, KY; Ping Xie, Rutgers Univ, Piscataway, NJ; Zhenyu Li, Univ of Kentucky, Lexington, Lexington, KY
- 4:45 **Coagulation Factor XI Promotes Distal Platelet Activation and Single Platelet Consumption in the Bloodstream Under Shear Flow**
Jenya Zilberman-Rudenko, Chantal Wiesenekker, Asako Itakura, **Owen J. McCarty**, Oregon Health & Science Univ, Portland, OR
- 5:00 **Podoplanin-clec-2-mediated Platelet Release Protects Vascular Stability in the Mouse Developing Brain**
Jianxin Fu, **Lijun Xia**, Oklahoma Medical Res Fndn, Oklahoma City, OK
- 51
- 52
- 57
- 58
- 59

3:30–5:15 PM

Broadway Ballroom A-B

Concurrent Session IV B

Platelet Production, Signaling and Function

Moderators:

Zhenyu Li, MD, PhD, University of Kentucky, Lexington, KY

TBD

3:30–5:15 PM

Broadway Ballroom C-D

Concurrent Session IV C

Genomics, Epigenomics and Stem Cells in Vascular Disease

Organized in cooperation with the Council on Functional Genomics and Translational Biology

Moderators:

Jonathan D. Brown, MD, Vanderbilt University School of Medicine, Nashville, TN

Sylvia T. Nurnberg, PhD, University of Pennsylvania, Philadelphia, PA

3:30 **TBD**

Jonathan D. Brown, MD, Vanderbilt University School of Medicine, Nashville, TN

Oral Abstract Presentations

- 3:30 **A Vesicular Trafficking Protein VPS33B Regulates Platelet Function and Inflammation**
Zhenyu Li, MD, PhD, University of Kentucky, Lexington, KY
- 4:00 **Role of Serotonin through 5HT_{2A} in alphaIIbBeta3 Outside-in Activation**
Kendra H. Oliver, Matthew Duvernay, Heidi E. Hamm, Ana M. Carneiro, Vanderbilt Univ, Nashville, TN
- 4:15 **Differential Regulation of NADPH-oxidases 1 and 2 and a Common Syk/PLC/Calcium-dependent ROS Signaling Pathway Mediating Platelet Activation**
Zheng Xu, Univ of Illinois at Chicago, Chicago, IL
- 4:00 **Network-based Identification and Prioritization of Key Regulators of Coronary Artery Disease Loci**
Yuqi Zhao, UCLA, Los Angeles, CA; Jing Chen, Johannes M. Freudenberg, GSK, Collegeville, PA; Qingying Meng, UCLA, Los Angeles, CA; CARDIoGRAM Consortium; Deepak K. Rajpal, GSK, Collegeville, PA; Xia Yang, UCLA, Los Angeles, CA
- 4:15 **MicroRNAs Function to Limit Vascular Development Flexibility**
Stefania Nicoli, Yale Cardiovascular Res Ctr, New Haven, CT
- 58
- 59

FRIDAY

Program Agenda (continued)

4:30 **Shear Stress Maintains Endocardial Phenotype In Ipsc Derived Endocardial Cells** 60
Mark Vander Roest, Camryn Johnson, H. Scott Baldwin, W. David Merryman, Vanderbilt Univ, Nashville, TN

4:45 **Hedgehog-Responsive Stem Cell Antigen 1 Positive Cells Contribute to Vascular Smooth Muscle Cell Accumulation Following Vascular Injury** 61
Emma Fitzpatrick, Dublin City Univ, Dublin, Ireland; Jay-Christian Helt, Univ of Rochester Med Ctr, Rochester, NY; Roya Hakimjavadi, Paul A. Cahill, Dublin City Univ, Dublin, Ireland; Eileen M. Redmond, Univ of Rochester Med Ctr, Rochester, NY

5:00 **Selenoprotein P Promotes Vascular Smooth Muscle Cell Proliferation and Pulmonary Hypertension – A Possible Novel Therapeutic Target** 62
Nobuhiro Kikuchi, Kimio Satoh, Junichi Omura, Taiju Satoh, Ryo Kurosawa, Masamichi Nogi, Tomohiro Otsuki, Kazuhiko Numano, Katsuya Kozu, Kota Suzuki, Shinichiro Sunamura, Shunsuke Tatebe, Tatsuo Aoki, Koichiro Sugimura, Hiroaki Shimokawa, Tohoku Univ, Aobaku, Sendai, Miyagi, Japan

4:30– 6:00 PM

Cumberland 1-2 (Level 3)

Next-Generation Technology Bootcamp 2: Genome Editing with the CRISPR/Cas9 System
Organized in cooperation with the Council on Functional Genomics and Translational Biology
Separate Registration required.

Instructors/Facilitators:

Pankaj Arora, MD, University of Alabama at Birmingham, Birmingham, AL
Alexandra Chadwick, PhD, Medical College of Wisconsin, Milwaukee, WI
Jane F. Ferguson, PhD, Vanderbilt University Medical Center, Nashville, TN
Sumeet Khetarpal, MS, University of Pennsylvania, Philadelphia, PA
Jennie Lin, MD, University of Pennsylvania, Philadelphia, PA
Kiran Musunuru, MD, PhD, MPH, FAHA, University of Pennsylvania, Philadelphia, PA
Sylvia T. Nuerenberg, PhD, University of Pennsylvania, Philadelphia, PA
Xuan Zhang, PhD, Columbia University, New York, NY

5:15–7:15 PM

Legends Ballroom

Poster Session II and Reception

7:15–10:30 PM

Broadway Ballroom East
Council Dinner
(ticket required)

Or dinner on your own

SATURDAY, MAY 7

8:00 AM

Broadway Ballroom Prefunction
Registration

8:30–10:30 AM

Legends Ballroom
Poster Session III and Continental Breakfast

10:30 AM–NOON

Broadway Ballroom East
Plenary Session V
Invited Lecture Series

Moderators:

Kathryn J. Moore, PhD, New York University, New York, NY
Philip S. Tsao, PhD, Conference Chair, Stanford University School of Medicine and VA Palo Alto Health Care System, Stanford, CA

Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research Lecture

10:30 **Immune Checkpoint Regulators in Atherosclerosis**
Esther Lutgens, MD, PhD, University of Amsterdam, Amsterdam, Netherlands

Keynote Lecture

11:00 **Immunometabolic Regulation in Atherosclerosis**
Göran K. Hansson, MD, PhD, Karolinska Hospital, Stockholm, Sweden

Distinguished Lecture

11:30 **Molecular Clocks and Cardiometabolic Disease**
Garret A. FitzGerald, MD, FAHA, University of Pennsylvania, Philadelphia, PA

NOON

Closing Remarks/Conference Adjourns

FRIDAY
SATURDAY

Oral Abstract Presentations

- 1
Atherosclerosis Regression is Dependent upon Newly Recruited Ly6c^{high} Circulating Monocytes and Their STAT6-Mediated M2 Polarization
Karishma Rahman, NYU Sch of Med, New York, NY; Yuliya Vengrenyuk, Mount Sinai Sch of Med, New York, NY; Natasha Girgis, Janssen Res & Development, Pharmaceutical Companies of Johnson & Johnson, Spring House, PA; Noemi Rotllan Vila, Yale Sch of Med, New Haven, CT; Jianhua Liu, Mount Sinai Sch of Med, New York, NY; Kathryn J Moore, P'ng Loke, Edward A. Fisher, NYU Sch of Med, New York, NY
- 2
Loss of *Rictor* in Macrophages Suppresses Their Viability and Reduces Atherosclerosis in LDLR Null Mice
Vladimir R. Babaev, Lei Ding, Youmin Zhang, James M May, MacRae F. Linton, Vanderbilt Univ, Nashville, TN
- 3
Targeting Macrophage Necroptosis for Therapeutic and Diagnostic Interventions to Treat Atherosclerosis
Denuja Karunakaran, Michele Geoffrion, Lihui Wei, Wei Gan, Univ of Ottawa Heart Inst, Ottawa, ON, Canada; Ljubica Perisic, Lars Maegdefessel, Ulf Hedin, Karolinska Inst, Stockholm, Sweden; Subash Sad, Univ of Ottawa, Ottawa, ON, Canada; Terrence Ruddy, Univ of Ottawa Heart Inst, Ottawa, ON, Canada; Liang Guo, Frank Kolodgie, Renu Virmani, CVPath Inst, Gaithersburg, MD; Katey J Rayner, Univ of Ottawa Heart Inst, Ottawa, ON, Canada
- 4
Enhancing the Ability of Macrophages to Orchestrate Selective Autophagy and Lysosomal Biogenesis Protects Against Atherosclerosis
Ismail Sergin, Somashubhra Bhattacharya, Xiangyu Zhang, Trent D Evans, Babak Dehestani, Roy Emanuel, Babak Razani, Washington Univ in St. Louis, St. Louis, MO
- 5
Lipid Droplet Associated Hydrolase: A New Player in Cholesterol Mobilization from Foam Cells
Younghwa Goo, Albany Medical Coll, Albany, NY; Pradip Saha, Larry Chan, Baylor Coll of Med, Houston, TX; Antoni Paul, Albany Medical Coll, Albany, NY
This research has received full or partial funding support from the American Heart Association.
- 6
The RNA-binding Protein ADAR2 Controls Interleukin-6-induced Endothelial Cell Pro-inflammatory Response by Regulating MicroRNA Biogenesis
Aikaterini Gatsiou, Federica F Lunella, Carolin Amrhein, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Stefan Guenther, Claudia Garcia Gonzalez, Andre Schneider, Thomas Braun, Max-Planck Inst, Bad Nauheim, Germany; Andreas M Zeiher, Stefanie Dimmeler, **Konstantinos Stellos**, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany
- 7
AntagomiR-762 Prevents and Reverses Angiotensin II Induced Aortic Stiffening
Kim Ramil C Montaniel, Jing Wu, Vanderbilt University, Nashville, TN; Matthew R Bersi, Yale Univ, New Haven, CT; Liang Xiao, Hana A Itani, Kasey C Vickers, Vanderbilt University, Nashville, TN; Jay D Humphrey, Yale Univ, New Haven, CT; David G Harrison, Vanderbilt University, Nashville, TN
This research has received full or partial funding support from the American Heart Association.
- 8
The Membrane-associated Guanylate Kinase Ww and PdZ Domain-containing Protein 1 magi1 is required for Disturbed Flow-induced Endothelial Inflammation and Atherosclerotic Plaque Formation
Ikjae Shin, Jong Hak Won, Kyung Ae Ko, Ji-Hyun Shin, Elena McBeath, Tamlyn Thomas, Carolyn Giancursio, Quintana-Quezada RA, Jack Taunton, Hiroshi Hosokawa, Naoki Mochizuki, Edward T.H. YEH, Jun-ichi Abe, Keigi Fujiwara, **Nhat tu LE**, MD Anderson Cancer Ctr, Houston, TX
This research has received full or partial funding support from the American Heart Association.
- 9
Involvement of Caveolin-1 in Vascular Remodeling and Inflammation Induced by Angiotensin II
Steven J Forrester, Tatsuo Kawai, Katherine J Elliott, Takashi Obama, Takehiko Takayanagi, Kevin Crawford, Satoru Eguchi, Victor Rizzo, Temple Univ, Philadelphia, PA
This research has received full or partial funding support from the American Heart Association.
- 10
The Matrix Crosslinking Enzyme Lysyl Oxidase Like-2 as a Target to Reverse Vascular Stiffness
Jochen Steppan, Ivy Wang, Yehudit Bergman, Siqi Tan, Sandeep Jandu, Sean Melucci, Dan E Berkowitz, Lakshmi Santhanam, Johns Hopkins Univ, Baltimore, MD
- 11
The Role of Human Osteopontin Isoforms in Post-Ischemic Neovascularization
Alicia N Lyle, Courtney M Caroti, Grace Sang Hee Lee, Giji Joseph, Saghar Hariforoosh, Joseph Vereen, Daiana Weiss, W. Robert Taylor, Emory Univ, Atlanta, GA
- 12
Nanotechnology-enabled Anti-mir-320 Therapy for Inhibiting Pathological Vasoconstriction
Thomas A Werfel, Kyle M Hocking, Kameron V Kilchrist, Colleen Brophy, Craig L Duvall, Vanderbilt Univ, Nashville, TN
- 13
Targeting the PERK Pathway of ER Stress Response for Endothelium Protection and Restenosis Prevention: A Paradigm for Developing Anti-thrombogenic Stents
Bowen Wang, Mengxue Zhang, Xudong Shi, Lian-Wang Guo, Michael Hoffmann, Craig Kent, Univ of Wisconsin Madison, Madison, WI
This research has received full or partial funding support from the American Heart Association.

14

The Anti-atherosclerosis ABCA1 Agonist CS6253 Confer Glucose Control by Improved Pancreas Beta-cell Insulin Secretion and Enhanced Peripheral Insulin Utility
John K Bielicki, Lawrence Berkeley Natl Lab, Berkeley, CA; Anouar Hafiane, Jacques Genest, Cardiovascular Genetics Lab, Cardiology Div, Montreal, QC, Canada; **Jan O Johansson**, Artery Therapeutics, San Ramon, CA; Stefanie Bittner, Geriatric Res, Education and Clinical Ctr, Palo Alto, CA; Jie Hu, Juveri Tabassum, Salman Azhar, Geriatric Res, Education, and Clinical Ctr, Palo Alto, CA

15

Identification of a High Density Lipoprotein Proteomic Signature Associated With Atherosclerosis Severity in Humans

Scott M Gordon, Natl Insts of Health, Bethesda, MD; Tiange Cui, George Mason Univ, Fairfax, VA; Denis Sviridov, Natl Insts of Health, Bethesda, MD; Ancha Baranova, George Mason Univ, Fairfax, VA; Marcus Chen, Alan T Remaley, Natl Insts of Health, Bethesda, MD

16

BcrKinase is a Novel Akt Kinase That Modulates Scavenger Receptor BI- and PDZK1-dependent Actions of HDL in Endothelium

Anastasia Sacharidou, Wan-Ru Lee, Philip E Shaul, Chieko Mineo, UT Southwestern Medical Ctr, Dallas, TX

17

APOC3 A43T Variant Promotes ApoC-III Catabolism and Accelerates TG-rich Lipoprotein Clearance in Mice and Humans

Sumeet A. Khetarpal, John S Millar, Amritha Varshini, Cecilia Vitali, Univ of Pennsylvania, Philadelphia, PA; Xuemei Zeng, Univ of Pittsburgh, Pittsburgh, PA; Paolo Zaroni, Univ of Pennsylvania, Philadelphia, PA; Zhiyuan Sun, Univ of Pittsburgh, Pittsburgh, PA; David Nguyen, James T McParland, Mary G McCoy, Univ of Pennsylvania, Philadelphia, PA; Pradeep Natarajan, Massachusetts General Hosp, Boston, MA; Marina Cuchel, Leland Mayne, S. Walter Englander, Sissel Lund-Katz, Michael C. Phillips, Univ of Pennsylvania, Philadelphia, PA; Nathan A Yates, Univ of Pittsburgh, Pittsburgh, PA; Sekar Kathiresan, Massachusetts General Hosp, Boston, MA; Daniel J Rader, Univ of Pennsylvania, Philadelphia, PA

18

Bempedoic Acid Lowers Low Density Lipoprotein-Cholesterol and Attenuates Aortic Atherosclerosis in LDL Receptor-Deficient (*LDLR*^{-/-} and *LDLR*^{-/-}) Yucatan Miniature Pigs

Amy C Burke, Dawn E Telford, Brian G Sutherland, Jane Y Edwards, Cynthia G Sawyez, Univ of Western Ontario, London, ON, Canada; Roger S Newton, Esperion Therapeutics Inc., Ann Arbor, MI; Murray W Huff, Univ of Western Ontario, London, ON, Canada

19

Role of Adenosine-to-Inosine RNA Editing of Alu Elements in Human Vascular Inflammatory Diseases

Konstantinos Stellos, Aikaterini Gatsiou, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Kimon Stamateopoulos, Alexandra Hosp, Univ of Athens, Athens, Greece; Ljubica Perisic, Karolinska Inst, Stockholm, Sweden; David John, Federica F Lunella, Nicolas Jae, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Oliver Rossbach, Univ of Giessen, Giessen, Germany; Carolin Amrhein, J.W. Goethe Univ Frankfurt, Frankfurt am Main,

Germany; Frangiska Sigala, Hippocratio General Hosp, Univ of Athens, Athens, Greece; Reinier A Boon, Boris Fuertig, Yosif Manavski, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Xintian You, Max Delbrück Ctr for Molecular Med Berlin-Buch, Berlin, Germany; Shizuka Uchida, Till Keller, Jes-Niels Boeckel, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Anders Franco-Cereceda, Lars Maegdefessel, Karolinska Inst, Stockholm, Sweden; Wei Chen, Max Delbrück Ctr for Molecular Med Berlin-Buch, Berlin, Germany; Harald Schwalbe, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Albrecht Bindereif, Univ of Giessen, Frankfurt am Main, Germany; Per Eriksson, Ulf Hedin, Karolinska Inst, Stockholm, Germany; Andreas M Zeiher, Stefanie Dimmeler, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany

20

Nogo-B Controls Inflammation by Regulating Autophagy in Macrophage

Bo Tao, **Jun Yu**, Yale Univ Sch of Med, New Haven, CT

This research has received full or partial funding support from the American Heart Association.

21

A Natural Repertoire of T Cells Recognizing ApoB-100 is Generated Early in Life and is Progressively Depleted during Atherosclerotic Disease

Dennis Wolf, Teresa Gerhardt, Jacqueline Miller, Sara McArdle, Takayuki Kimura, La Jolla Inst for Allergy and Immunology, San Diego, CA; Marc Jenkins, Univ of Minnesota Medical Sch, Minneapolis, MN; Klaus Ley, La Jolla Inst for Allergy and Immunology, San Diego, CA

22

Absence of Circadian Gene Bmal in Macrophage Enhances Atherosclerosis

Xiao Yu Tian, Yuhong Huang, Chinese Univ of Hong Kong, Hong Kong, Hong Kong; Wing Tak Wong, Houston Methodist Res Inst, Houston, TX; Ajay Chawla, Univ of California San Francisco, San Francisco, CA; Yu Huang, Chinese Univ of Hong Kong, Hong Kong, Hong Kong

23

Microrna302-367 Sphingosine 1 Phosphate Receptor 1 Pathway Prevents Tumor Growth via Restricting Angiogenesis and Enhancing Vascular Stability

Jinjiang Pi, Shanghai East Hosp Affiliated to Tongji Univ Sch of Med, Shanghai, China; Ting Tao, Jiaotong Univ, Sch of Med, Shanghai, China; Tao Zhuang, Huimin Sun, Xiaoli Chen, Yixin Shen, Zuoren Yu, Shanghai East Hosp Affiliated to Tongji Univ Sch of Med, Shanghai, China; Helen He Zhu, Wei-qiang Gao, Jiaotong Univ Sch of Med, Shanghai, China; Yuanzhen Suo, Shanghai Jiao Tong Univ, Shanghai, China; Xunbin Wei, Jiaotong Univ Sch of Med, Shanghai, China; Xiangjian Zheng, Centenary Inst, Camperdown, Australia; Ying Tian, Temple Univ Sch of Med, Philadelphia, PA; Edward Morrissey, Univ of Pennsylvania, Philadelphia, PA; Lin Zhang, Yuzhen Zhang, Shanghai East Hosp Affiliated to Tongji Univ Sch of Med, Shanghai, China

24

NETosis is Associated with Abdominal Aortic Aneurysm Rupture

Sean J English, Hassan Albadawi, Hyung-Jin Yoo, Massachusetts General Hosp, Boston, MA; Kimberly Martinod, Boston Children's Hosp, Boston, MA; Jose A Diaz, Univ of Michigan Health System, Ann Arbor, MI; Akshaya Meher, Gilbert R Upchurch Jr, Univ of Virginia,

Charlottesville, VA; Denisa Wagner, Boston Children's Hosp, Boston, MA; Michael T Watkins, Massachusetts General Hosp, Boston, MA

25

Inducible Depletion of Calpain-2 Attenuates Angiotensin II-induced Cytoskeletal Structural Protein Destruction During Abdominal Aortic Aneurysm Development in Mice
Latha Muniappan, Aida Javidan, Weihua Jiang, Jessica J Moorlegghen, Anju Balakrishnan, Deborah A Howatt, **Venkateswaran Subramanian**, Univ of Kentucky, Lexington, KY

This research has received full or partial funding support from the American Heart Association.

26

Low Plasma Mir-155 Levels and RhoA Activation Correlates with Small AAA Expansion
Eugene S Lee, Univ of California, Davis, Sacramento, CA; Anthony Nguyen, Paramita Ghosh, Angelica Rona, Arash Afkhami, Sacramento VA Medical Ctr, Mather, CA

27

Structure of Lipid-free and Lipid-bound Apolipoprotein A-I Determined by Stable Isotope-assisted Cross-linking and Small Angle X-ray Scattering
John T Melchior, Jamie C Morris, Ryan G Walker, Univ of Cincinnati, Cincinnati, OH; Martin K. Jones, Jere P. Segrest, University of Alabama at Birmingham, Birmingham, AL; Thomas B. Thompson, W. Sean Davidson, Univ of Cincinnati, Cincinnati, OH

28

Adiponectin Stimulates Cholesterol Efflux Efficiently in Human THP-1 Macrophages and Modulates HDL-apoA-I Biogenesis
Karina Gasbarrino, Anouar Hafiane, McGill Univ, Montreal, QC, Canada; Jacques Genest, McGill Univ Health Ctr, Montreal, QC, Canada; Stella Styliani Daskalopoulou, McGill Univ, Montreal, QC, Canada

29

Alpha-1-antitrypsin Protects High Density Lipoprotein from Functional Inactivation by Elastase
Scott M Gordon, Denis Sviridov, Toshihiro Sakurai, Lita Freeman, Alan T Remaley, Natl Insts of Health, Bethesda, MD

30

ApoE and ApoCIII Interact to Modulate the Metabolism of HDL ApoA-I in Humans
Allyson Morton, Harvard Sch of Public Health, Boston, MA; Carlos O Mendivil, Univ de los Andes, Bogota, Colombia; Liyun Wang, Roche Pharmaceuticals, Shanghai, China; Jeremy D Furtado, Frank M Sacks, Harvard Sch of Public Health, Boston, MA

31

Resolvin D1 Attenuates PDGF-induced Vascular Smooth Muscle Cell Migration via the cAMP Pathway
Giorgio Mottola, Bian Wu, Anuran Chatterjee, Mian Chen, Michael S Conte, UCSF, San Francisco, CA

This research has received full or partial funding support from the American Heart Association.

32

Analysis of Serum Clopidogrel Active Metabolite Concentration Identifies Novel Genetic Variants Associated With Clopidogrel Pharmacokinetics
Joshua D Backman, Joshua P Lewis, Richard B Horenstein, Univ of Maryland-Baltimore, Baltimore, MD; Michael A Pacanowski, FDA, Silver Spring, MD; William D Figg, Natl Cancer Inst, Bethesda, MD; Alan R Shuldiner, Jeffrey R O'Connell, Laura M Yerges-Armstrong, Univ of Maryland-Baltimore, Baltimore, MD

33

Platelet 12-lipoxygenase is a Key Regulator of Platelet Reactivity and Thrombus Formation in vivo
Reheman Adili, Katherine Mast, Univ of Michigan, Ann Arbor, MI; Theodore R Holman, Univ of California Santa Cruz, Ann Arbor, MI; **Michael Holinostat**, Univ of Michigan, Ann Arbor, MI

34

Impact of Thrombomodulin and Thrombin-activatable Fibrinolysis Inhibitor on the Anti-coagulant and Pro-fibrinolytic Effects of Rivaroxaban
Justin J Garabon, Michael B Boffa, Univ of Windsor, Windsor, ON, Canada

35

DVT Inflammation Assessed by 18F-FDG-PET/CT Predicts Subsequent Vein Wall Scarring
Chase W Kessinger, Ahmed Tawakol, Gregory R Wojtkiewicz, MGH/Harvard Medical Sch, Boston, MA; Peter K Henke, Univ of Michigan, Ann Arbor, MI; Ralph Weissleder, Farouc A Jaffer, MGH/Harvard Medical Sch, Boston, MA

This research has received full or partial funding support from the American Heart Association.

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Alpha 2-antiplasmin Prevents the Resolution of Deep Vein Thrombosis
Satish Singh, Ailyan K Houng, Samantha Howard, B Tyler Emerson, **Guy L Reed**, Univ of Tennessee Health Science Ctr, Memphis, TN

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Measure of Appropriateness in the Placement of Intravenacaval Filters Among Guidelines From Major Medical Societies
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Analysis of Radiotherapy Induced Vascular Lesions Reveals Potential Therapies Against Innate Inflammation in an ApoE Knockout Mouse Model

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A Population of ApoB-100 Peptide-specific CD8⁺ T cells Tracks Atherosclerosis in ApoE^{-/-} Mice

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Molecular Mimicry Between Malondialdehyde and Group A Streptococcus Contribute to the Natural Selection of Conserved Innate Immune Response

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Angiogenesis is Triggered by Nutrient Deprivation via Gcn2/atf4-dependent Regulation of Vegf and H2s Production
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Ninjurin-1 is an Atheroprotective Factor in Hyperlipidemic Mice

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High-amount and High-intensity Exercise Training Improves HDL Cholesterol Efflux Capacity

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Reduction of LpX and Improvement in Kidney Function in LCAT-KO Mice by Enzyme Replacement Therapy

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Identifying Factors Influencing Low Density Lipoprotein Lowering Effect of Ezetimibe in Japanese Subject

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ABCA1 and HDL3 are Required to Modulate Smooth Muscle Cells Transdifferentiation in a Myocardin-miR143/145-dependent Process

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Deficiency of Macrophage Epsins Impedes Atherosclerosis by Inhibiting LRP-1 Internalization and Degradation

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T Cell Specific CD40L Promotes to Atherosclerosis

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O-GlcNAcylation of Runx2 in Nuclear Matrix Targeting Signal Modulates Vascular Calcification

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Amp-activated Protein Kinase Alpha 2 Deletion Induces Vsmc Phenotypic Switching and Promotes Atherosclerotic Plaque Instability

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Stat4 Promotes Atherosclerosis by a Reduction in Cd8⁺ Tregs, Supporting Tfh and Plasma B Cell Development, T Cell Activation and Cd11b⁺ Cell Accumulation in the Aortic Wall

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Interleukin-27 Signaling Regulates Myeloid Cells Activation in Atherosclerosis

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Di-n-butyl Phthalate: An Indoor Pollutant Induces Murine Macrophages Oxidative Stress and Inflammation, a Potential Atheropathogenesis Modulator

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Global and Hepatocyte-specific Ablation of Bmal1 Induces Hyperlipidemia and Enhances Atherosclerosis

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Selective Targeting of a Novel Epsin-VEGFR2 Interaction Promotes VEGF-mediated Angiogenesis

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Vascular Dysfunction in High BMI Black College Football Players

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Plant Based Diet Improves Glucose Metabolism in 18 Days

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Francisco E Ramirez, Jill Siebold, Neil Nedley, Nedley Clinic, Weimar, CA; Kathelyn Antuna, Albert Sanchez, Weimar Inst, Weimar, CA; Paulo Grilo, Nedley Clinic, Weimar, CA

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Pathogenetic Mechanisms of Thoracic Aortic Aneurysm in a Smad4 Mutant Mouse Model: Identification of New Molecular Targets for Pharmacological Therapy

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Exogenous Vasohibin-2 Exacerbates Angiotensin II-induced Ascending Aortic Aneurysms

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Angiotensin II Infusion Does Not Influence the Distribution of Cardiac Neural Crest Derived Smooth Muscle Cells in the Ascending Aorta

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Zakir Shaik, Amanulla Khaji, Scott Goldman, Roberto Rodriguez, Francis P. Sutter, Hafiz M. Waqas Khan, Ahmed Alfityani, Eric Gnall, Paul Coady, Konstadinos Plestis, Peter R. Kowey, Li Zhang, Lankenau Medical Ctr, Wynnewood, PA

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A Female *Myh11-CreER^{T2}* Mouse Line Resulting from Y to X Chromosome-translation

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Matrix Metalloproteinase 12 is Causally Implicated in Cardiovascular Disease
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Kousaku Ohno, Atsuyuki Tomizawa, Makoto Mizuno, Daiichi Sankyo Co., Ltd., Tokyo, Japan; Joseph A. Jakubowski, Eli Lilly and Company, Indianapolis, IN; Atsuhiko Sugidachi, Daiichi Sankyo Co., Ltd., Tokyo, Japan
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In Vivo Vibrational Photoacoustic Tomography of Perivascular Fat in Apolipoprotein E-Deficient Mice
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Acute Reduction of Ambient Air Pressure Lowers Systemic Vascular Resistance and Improves Cardiac Output in Mice *in-vivo*
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Diabetes Influences Carotid Artery Endarterectomy Plaque Lipidomics

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Effects of Unilateral Hindlimb Venous Occlusion in a Murine Model

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The Role of TIE1 in Flow Mediated Lymphatic Vessel Remodeling and Valvulogenesis

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Charles J Lenz, Rayya Saadiq, Benjamin Simmons, Kevin Cohoon, Robert McBane, Paul Daniels, Waldemar Wysokinski, Mayo Clinic, Rochester, MN

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Mechanical Valve Thrombosis and Therapy

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Plasma Advanced-oxidized Protein Products Promote Platelet-endothelial Crosstalk and Endothelial Tissue Factor Expression

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Oluwaseun Adeola, Yan Ji, Phillip Fish, Tammy Strawn, Gary A Weisman, Univ of Missouri, Columbia, MO; Ridong Chan, APT Therapeutics, Saint Louis, MO; William Fay, Univ of Missouri, Columbia, MO

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The Role of Nucleotidase in Arterial Thrombosis

Roman Covarrubias, Elena Chepurko, Tatiana Novitskaya, Vanderbilt Univ, Nashville, TN; Karen M Dwyer, Deakin Univ, Burwood, Australia; Simon C Robson, Transplant Inst, Beth Israel Deaconess Med Ctr, Harvard Medical Sch, Boston, MA; Peter J Cowan, Univ of Melbourne, Melbourne, Australia; Richard J Gumina, Vanderbilt Univ, Nashville, TN

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Kruppel-like Factor 15: A Critical Transcriptional Regulator of Hypoxia Induced Endothelial Arginase 2

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Syzygium Jambos: A Potential Therapeutic Approach to Treat the Vascular and Hematological Complications of Sickle Cell Disease

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Manipulating P2Y2 Receptor Biased Signaling to Limit Pro-thrombotic Gene Expression in Human Coronary Artery Endothelial Cells

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Endothelin-1 Regulates Molecules of the Major Histocompatibility Complex: Role in Sickle Cell Disease

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Loss of Cadherin-11 Prevents Aortic Valve Interstitial Cell Contraction

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Chronic Adventitial Inflammation, Vasa Vasorum Expansion and 5-lipoxygenase Upregulation in Previously Irradiated Arteries From Cancer Survivors

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Synthetic Soluble MHC-I/peptide Complexes Confirm Activation of Functional Antigen-specific CD8+ T cells by Immunization With apoB-100-derived Peptide p210 in ApoE-/- Mice

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MHC-II Tetramer-based Isolation of Atherosclerosis Autoantigen-specific T Cells

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Real-time Intravital Optical Imaging Reflects the Dynamic Changes of Oxidative Stress Induced by Cigarette Smoking in Vasculatures

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Chronic Polarization of Low-grade Inflammatory Monocytes During the Pathogenesis of Atherosclerosis

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Mechanical Stretch on Endothelial Cells Promotes Monocyte Differentiation into Immunogenic Dendritic Cells

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Marisa C. Mizus, Antoine G. Sreih, Wade T. Rogers, Lifeng Zhang, Richard Schretzenmair, Jonni S. Moore, Peter A. Merkel, Emile R. Mohler III, Perelman Sch of Med at the Univ of Pennsylvania, Philadelphia, PA

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Antioxidant and Anti-inflammatory Strategies Prevent Endothelial Dysfunction in Chronic Kidney Disease

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Myeloid-specific Il-4 Receptor α Knockout Alters Cardiac Remodeling Post-myocardial Infarction

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Loss of Endothelial CXCR7 Exacerbates Wire-injury Induced Neointimal Formation

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Xuchu Que, Calvin Yeang, Ming-Yow Hung, Fumihiro Yamaguchi, Cody J. Diehl, Ayelet Gonen, Thomas A. Prohaska, Shuling Wang, Karen Bowden, Jennifer Pattison, Pamela L. Mellon, Univ of California San Diego, La Jolla, CA; Dalia Gaddis, Catherine Hedrick, Klaus Ley, La Jolla Inst for Allergy and Immunology, La Jolla, CA; Christopher K. Glass, Kirk L. Peterson, Univ of California San Diego, La Jolla, CA; Christoph J. Binder, Medical Univ of Vienna, Vienna, Austria; Sotirios Tsimikas, **Joseph L. Witztum**, Univ of California San Diego, La Jolla, CA

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Acute Exposure to Air Pollution Aggravates Acute Myocardial Infarction and Subsequent Ischemic Heart Failure in Mice

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Thrombin Activatable Fibrinolysis Inhibitor is a Regulator of Angiogenic Potential in Endothelial Cells

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HIV-Nef Induced Endothelial Cell Dysfunction is Rac Dependent and Downregulated with Atorvastatin Treatment
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Raj Kumar, Jagadish Janjanam, Nikhlesh K. Singh, Gadiparthi N. Rao, Univ of Tennessee Health Science Ctr, Memphis, TN

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The Endothelial Glycocalyx Promotes Homogenous Blood Flow Distribution within the Microvasculature

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Manganese Superoxide Dismutase: A Novel Mediator of Heart Failure Development and Progression

Sumitra Miriyala, Mini Chandra, Jonathan Fox, Christopher Kevil, Wayne Orr, Manikandan Panchatcharam, LSU Health Sciences Ctr - Shreveport, Shreveport, LA

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Emily Nguyen, Olha Koval, Isabella Grumbach, Univ of Iowa, Iowa City, IA

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Chemogenetic Activation of Satellite Glial Gq-GPCR Signaling Enhances Cardiovascular Function *in vivo*
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Brian T. Palmisano, Lin Zhu, John M Stafford, Vanderbilt Univ Medical Ctr, Nashville, TN

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Identification of CHROME as a Competing Endogenous RNA that Regulates Cholesterol Homeostasis

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A High Dose Olive Oil, Polyphenol, and Lectin Limited Diet Reverses and/or Stabilizes Advanced Coronary Artery Disease

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Utility of Very Low-density Lipoprotein Cholesterol to Total Triglyceride Ratio (VLDL-C/TG) and Non-VLDL TG to Quantify Remnant Lipoprotein Cholesterol (RLP-C): The Very Large Database of Lipids Study 7C

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Jizhong Cheng, Ming Liang, Jinlong Luo, Baylor Coll of Med, Houston, TX; Jie Du, Beijing Anzhen Hosp of the Capital Medical Univ, Beijing, China
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Ashley James, Bronson Haynes, Anca Dobrian, Eastern Virginia Medical Sch, Norfolk, VA
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Thymoquinone Inhibits Ouabain-induced Arrhythmia in Rat Isolated Atria
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Evaluation of Antibody Responses Toward Post-Translationally Modified and Unmodified Peptide Epitopes of Apolipoprotein A-I
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Control of Adipose Tissue Macrophage Metabolism by Oxidized Phospholipids
Vlad Serbulea, Akshaya Kumar Meher, Samantha Adamson, Norbert Leitinger, Univ of Virginia, Charlottesville, VA
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Metabocin™ Increases Lipolytic Pathways to Counter High Fat Diet-Induced Non-Alcoholic Fatty Liver Disease
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G3BP1 Activation of NFATc Signaling is Inhibited by LRP6 in Aortic Vascular Smooth Muscle Cells
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Alexis Stamatikos, Lucia Vojtech, Nagadhara Dronadula, David Dichek, Univ of Washington, Seattle, WA
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Lei Cai, Joseph D. Layne, Sierra M. Paxton, Courtney R. Burkett, Univ of Kentucky, Lexington, KY; Richard Lee, Isis

Pharmaceuticals, Carlsbad, CA; Ryan E. Temel, Univ of Kentucky, Lexington, KY

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Kenan Demircioglu, Feyza Aksu, Mustafa Caliskan, Yusuf Yilmaz, Istanbul Medeniyet Univ, Faculty of Med, Istanbul, Turkey

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Talin Ebrahimian, Maryam Heidari, David Simon, Jewish General Hosp, Montreal, QC, Canada; Hojatollah Vali, Craig A. Mandato, McGill Univ, Montreal, QC, Canada; Stephanie Lehoux, Jewish General Hosp, Montreal, QC, Canada

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EphA2 Regulates Vascular Smooth Muscle Fibroproliferative Remodeling in Atherosclerosis
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Atherosclerosis-driven Treg Plasticity Results in the Formation of a Dysfunctional Subset of Plastic IFN γ ⁺ Th1/Tregs
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Nox4 Derived Ros Plays a Vasculoprotective Role in the Development of Diabetes Associated Atherosclerosis
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Modification of HDL by Reactive Aldehydes Impairs HDL's Athero-protective Functions
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Bone Marrow-derived Matricellular Protein CCN3 is Protective against Atherosclerosis
Chao Zhang, **Xingjian Hu**, Hong Shi, Wenconghui Wu, Yulan Qing, Case Western Reserve Univ, Cleveland, OH; Bernard Perbal, Intl CCN Society, Paris, France; Nianguo Dong, Huazhong Univ of Science and Technology, Wuhan, China; Zhiyong Lin, Case Western Reserve Univ, Cleveland, OH

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Longitudinal Visualization of Calcification Genesis and Growth *in vivo*: Novel Implications for Plaque Vulnerability
Joshua D Hutcheson, Claudia Goettsch, Brett Pieper, Tan Pham, Jung Choi, Andrew Mlynarchik, Masanori Aikawa, Elena Aikawa, Brigham and Women's Hosp, Boston, MA

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Transgenic Overexpression of Alanine-glyoxylate Aminotransferase 2 in Mice Lowers Asymmetric Dimethylarginine and Improves Vasomotor Function
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High Density Lipoprotein Proteome Dynamics is Altered in Non-alcoholic Fatty Liver Disease
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Fimasartan Reduced Carotid Atherosclerosis Progression After Mechanical Injury in ApoE Knockout Mouse

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Is There a Relationship Between an Elevated Coronary Calcium Score and the Incidence of Kidney or Gallbladder Calculi

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Transcription Coactivator MED1 Protects Against Atherosclerosis by Modulation of Macrophage Polarization

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Fcγ₄ Receptor IV Expressed on Inflammatory Cells Drive Diet-induced Atherosclerosis in Hyperlipidemic Mouse Model

Branimir Popovic, Doug Feck III, **Shanmugam Nagarajan**, Univ of Pittsburgh, Pittsburgh, PA

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Differential Responses of Bone Marrow-Derived Macrophages to Lipopolysaccharide in the Trem1 Null Mouse

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⁶⁴Cu-DOTATATE for in vivo Positron Emission Tomography Imaging of Somatostatin Receptor 2 Expressing Macrophages in a Göttingen Minipig Model of Atherosclerosis

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Hepatic Nuclear Factor 4 Alpha as a Regulator of Alanine: Glyoxylate Aminotransferase 2 Expression and Systemic Levels of Endogenous Methylarginines

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Transgenic Overexpression of Tissue-nonspecific Alkaline Phosphatase in Monocytes/Macrophages Induces Calcification of Atherosclerotic Plaques

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Linoleate Epoxides, Epomes, Are Potent Anti-inflammatory Fatty Acid Epoxides and Nearly Equivalent to Arachidonate-derived Epetres

Vishal Singh, Piu Saha, Matam Vijay-Kumar, **Gregory Shearer**, The Pennsylvania State Univ, University Park, PA

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Chemokine Receptor CCR6 Expression on B Cells Augments Local IgM Production and Atheroprotection

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Lipid-lowering Agent Gemcabene Down-regulates Acute Phase C-reactive Protein via /EBP-δ-mediated Transcriptional Mechanism and Attenuates Inflammation and Osteoarthritis in Animal Models

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Therapeutic Immunization with an Antiglycosaminoglycan Antibody Reduces Atherosclerotic Lesion Progression in Apolipoprotein E-Deficient Mice

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Lipid Phosphate Phosphatase 3 in Smooth Muscle Cells Suppresses the Development of Atherosclerosis

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Induction of Autophagy with Beclin-1 is not Sufficient to Reduce Atherosclerosis

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Residential Lifestyle Interventions Reduce Blood Pressure in 18 Days
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Outpatient Community Based Educational Program Reduces Lipids in Two Weeks
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PPAR γ -agonist Rosiglitazone Modulates Macrophage Proliferation, Polarization, and Inflammatory Function
Danielle Hyatt, Francis J Alenghat, Univ of Chicago, Chicago, IL
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Identification of Apolipoproteins Using Feature Selection Technique
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DNA Methylation Profiling Reveals an Epithelial/Endothelial-Mesenchymal Transition-like Signature of Intima-Media Cells in the Ascending Aorta of Bicuspid Aortic Valve Patients
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A Pivotal Role of Smooth Muscle Bmal1 in Mineralocorticoid Receptor Agonist plus Salt Induced Mouse Aortic Aneurysm
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Preeti Maurya, Sukka Santosh Reddy, Anant Jaiswal, Manoj Kumar Barthwal, CSIR-Central Drug Res Inst, Lucknow, India
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Chronic Kidney Disease is a Risk for Abdominal Aortic Aneurysm but Diabetes Mellitus is a Protective Factor in Japanese
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Telomere-based Assessment of Biological Age in Patients with Advanced Vascular Disease
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Circulating Monocyte-Platelet Aggregates are Different Across Phenotypes of Vascular Disease
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Should Endovascular Therapy for Renal Artery Stenosis Make a Come Back
Mohammad M Ansari, Metro Heart & Vascular Ins., Metro Health Hosp, Wyoming, MI; Daniel Garcia, Ochsner Clinic Fndn, New Orleans, LA
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Change in Pulse Wave Velocity and Short Term Development of Cardiovascular Events in the Hemodialysis Population
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The Role of Dual Specificity Phosphatase 5 in Post Ischemic Angiogenesis
Dawit Ayalew, Arvin Daneshmand, Hajara Quatara, Lingdan Chen, **Ayotunde O Dokun**, Univ of Virginia, Charlottesville, VA
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Andrew Harrington, Nicole Ilonzo, Thais Polanco, Kevin Yang, Selena Goss, Sean Alcantara, Michael Dudkiewicz, John C Lantis, Mount Sinai St. Luke's Hosp and Mount Sinai West Hosp, New York, NY
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Perivascular-Cell Derived Oct4 is Essential for Angiogenesis Following Hindlimb Ischemia
Daniel L Hess, Olga A Cherepanova, Brian H Annex, Gary K Owens, Univ of Virginia, Charlottesville, VA
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Adverse Outcomes in Patients with Diabetes Mellitus Following Stenting for Lower Extremity Peripheral Arterial Disease

Sarah Kiani, Usman Salahuddin, Haekyung Jeon Slaughter, Atif Mohammad, Emmanouil S. Brilakis, Subhash Banerjee, UT Southwestern, Dallas, TX

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The Long Non-coding Rna MIAT Regulates Smooth Muscle Cell Proliferation and Macrophage Activity in Advanced Atherosclerotic Lesions

Yuhuang Li, Hong Jin, Ljubica Perisic, Ekaterina Chernogubova, Alexandra Bäcklund, Peter Gustafsson, Olivera Werngren, Albert Busch, Suzanne Eken, Changyan Sun, Göran K Hansson, Gabrielle Paulsson-Berne, Ulf Hedin, Claes Bergmark, Lars Maegdefessel, Karolinska Instt, Stockholm, Sweden

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Cardiovascular Risk Factors in Patients with Peripheral Arterial Disease: A Case-control Study in Popayán-Colombia

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Development and Validation of Risk Model for Predicting Prevalence of Peripheral Artery Disease in a Low to Intermediate Risk Population

Waqas A Malick, Caron B Rockman, Yu Guo, Jinfeng Xu, Mark A Adelman, Jeffrey S Berger, NYU Sch of Med, New York, NY

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Comparison of Aging and Disturbed Flow Effects on Arterial Wall Biomechanics

Anastassia Pokutta-Paskaleva, Emory Univ, Atlanta, GA; Rudolph L. Gleason, Georgia Inst of Technology, Atlanta, GA; Luke P. Brewster, Emory Univ, Atlanta, GA

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Electromagnetic Properties of Blood-flow for Screening of Peripheral Artery Disease

Jerad Rogers, Balakumar Jayakumar, Jeremy Patterson, Kim Cluff, Wichita State Univ, Wichita, KS

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In Vitro and *in vivo* Disease Modeling Using Patient Derived iPSCs to Characterize the Calcification Phenotype in Arterial Calcification Due to Deficiency of CD73

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Therapeutic Angiogenesis by Peripheral Blood Mononuclear Cells and its Rationale for Designing a New Trial

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Should Bilateral Internal Thoracic Artery Grafting be Used in Patients with Peripheral Vascular Disease?

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Janus Kinase 3 is a Novel Regulator for Smooth Muscle Proliferation and Vascularremodeling

Yung-Chun Wang, Univ of Georgia, Athens, GA

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Cd163 Macrophage Content and Glucose Transporter-1 Expression in Aspirated Deep Vein Thrombus Are Associated With the Time After Onset

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Factor XIIa: New Insights on Chemical Tractability and Target Indications From a Potent and Selective Tool Inhibitor
Christopher M Barbieri, Xinkang Wang, Xueping Zhou, Aimie M Ogawa, Kim O'Neil, Weizhen Wu, Gino Castriota, Dietmar A Seiffert, David Gutstein, **Zhu Chen**, Merck Res Labs, Kenilworth, NJ

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Cases with Uncommon Anti-phospholipid Antibody Syndrome Developed Multifocal Vascular Disorders Such as Ischemic Enteritis, Portal Vein Thrombosis, Ischemic Heart Disease and Cerebral Infarction

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4-hydroxy-2-nonenal (HNE), a Lipid Peroxidation Product, Exerts Both Pro- and Anti-thrombotic Effects on Vascular Cells

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Vorapaxar Does Not Increase Bleeding Time

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Correlation Between Expression Level of Platelet Endothelial Aggregation Receptor 1 and On-aspirin Platelet Aggregation
Yi Yao, Jia-Hui Zhang, Chen He, Yuan-Liang Ma, Xiao-Fang Tang, Ying Song, Jing-Jing Xu, Ru Liu, Jin-Qing Yuan, State Key Lab of Cardiovascular Disease, Fuwai Hosp, Natl Ctr for Cardiovascular Diseases, Chinese Acad of Medical Sciences and Peking Union Medical Coll, Beijing, China

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Assessing Hemostasis and Platelet Function Using a Microfluidic Device Lined with Fixed Human Endothelium
Abhishek Jain, Andries D. van der Meer, Anne-Laure Papa, Riccardo Barriale, Wyss Inst at Harvard Univ, Boston, MA; Angela Lai, Carnegie Mellon Univ, Pittsburgh, PA; Benjamin L. Schlechter, Beth Israel Deaconess Medical Ctr at Harvard Medical Sch, Boston, MA; Monicah A. Otieno, Calvert S. Loudon, Janssen Pharmaceutical Res and Development, Spring House, PA; Geraldine A. Hamilton, Emulate Inc, Cambridge, MA; Alan D. Michelson, Andrew L. Frelinger III, Boston Children's Hosp, Boston, MA; Donald E. Ingber, Wyss Inst at Harvard Univ, Boston, MA

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Decreased NSF S-Nitrosylation in the Aorta and an Age-Dependent Endothelial Activation in Mice with Fabry Disease
Justin J Kang, Liming Shu, Karl C Desch, Peter F Bodary, James A Shayman, Univ of Michigan, Ann Arbor, MI

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In Patients with Uncontrolled Arterial Hypertension Platelets and Coagulation Factor XI are Responsible of Modifications of Thrombin Generation

Jeremy Lagrange, Yvonne Weihert, Thomas Münzel, Susanne Karbach, Philip Wenzel, Univ Medical Ctr Mainz, Mainz, Germany

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Protein Analysis of Tongxinluo-modulated Cytokines in Cardiac Microvascular Endothelial Cells via Tandem Mass Tag Quantitative Proteomics After Ischemia/Reperfusion Injury

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Lymph is a Vehicle for Extracellular Vesicles in Mice
Andreea Milasan, Montreal Heart Inst, Montreal, QC, Canada; Nicolas Tessandier, Ctr de Recherche du Ctr Hospier Univre de Québec, Québec, QC, Canada; Sisareuth Tan, Alain Brisson, Inst de Chimie & Biologie des Membranes & des Nano-objets, Pessac, France; Eric Boilard, Ctr de Recherche du Ctr Hospier Univre de Québec, Québec, QC, Canada; Catherine Martel, Montreal Heart Inst, Montreal, QC, Canada

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Deficiency of Protease-activated Receptor 2 Attenuates Angiotensin II-induced Abdominal Aortic Aneurysm Independent of Vascular Smooth Muscle Cell Tissue Factor
David E. Hall, Adrien Mann, Shannon M. Jones, Univ of Cincinnati, Cincinnati, OH; Nigel Mackman, Univ of North Carolina at Chapel Hill, Chapel Hill, NC; **A. Phillip Owens III**, Univ of Cincinnati, Cincinnati, OH

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Trem Like Transcript-1 (TLT-1) Regulates Both Leukocytes and Endothelial Cells to Mediate Immunohemostasis
A. Valance Washington, Univ of Puerto Rico, San Juan, PR

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Platelet-derived Factor V Promotes Angiogenesis in a Mouse Hindlimb Ischemia Model
Jianbo Wu, Univ of Missouri, Columbia, MO; Yan Yang, Lamei Xiao, Ni Chen, Yongjie Li, Xin Deng, Liqun Wang, Ningbo Pang, Sichuan Medical Univ, Luzhou, China; Hongmin Sun, Univ of Missouri, Columbia, MO

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Lipoproteins Transport Functional Non-human Small RNAs that Regulate Gene Networks Spanning Inflammation and Lipid Metabolism

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Metabolism of Multiple Apolipoproteins Across HDL Size in Humans

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Soluble Oxidized Apolipoprotein A-I, a Precursor of Amyloid Fibrils, Activates Secretion of Inflammatory Cytokines in Macrophages

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Very Low Density Lipoprotein Assembly is Required for cAMP Responsive Element-binding Protein H Processing and Hepatic Apolipoprotein A-IV Expression in Mouse Models of Acute Steatosis
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The Molecular Interaction of Apolipoprotein A-I Containing High Density Lipoproteins with Lecithin: Cholesterol Acyl Transferase

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Cellular Pip2 is Effluxed By Abca1 to ApoA1 and Pip2 Is Carried on Hdl That Can be Delivered to Target Tissues via Sr-b1

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Enhancement of Rat Lymphatic Lipid Transport by Glucose Ingestion

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Strenuous Exercise and Quercetin Intake Differentially Modulate PCSK9 and ANGPTL4 in Normal C57BL6 Mice

Halleh Mahini, Dhuha Alsayrafi, Tong Wu, Mahdi Garelnabi, Univ of Massachusetts Lowell, Lowell, MA

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Differential mRNA Expression is Influenced by Apolipoprotein A-I in Order to Promote Foam Cell Regression

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Characterization of the I4399M Variant of Apolipoprotein(a): Implications for Altered Prothrombotic Properties of Lipoprotein(a)

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Proteomic Correlation of Gel Filtration Lipoprotein Subfractions with Atheroprotective Functions of HDL

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ABCA1 Expression Promotes ApoAI Acidification on the Plasma Membrane via Recruitment of Vacuolar ATPase

Shuhui Wang, Gregory Brubaker, Jonathan D. Smith, Cleveland Clinic, Cleveland, OH

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TFEB Expression, Turnover, and Nuclear Localization are Altered in DBA/2 Mouse Macrophages Associated With Impaired Autolysosome Formation and Lipid Droplet Clearance

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Loss of ABCG1 Specifically in Pulmonary Type 2 Cells Results in Impaired Surfactant Lipid Metabolism

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End Stage Human Aneurysm Disease in Different Arterial Positions is Similar, Aneurysm Induction in Mouse Models is Not

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The Matricellular Protein Ccn1 is a Key Mediator of Smooth Muscle Cell Migration and Neointimal Formation

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Mitochondrial Biomarkers for Assessing Early Tobacco Product Induced Cardiovascular Injury in Human Participants

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The Soluble Guanylyl Cyclase Activator Bay 60-2770 Inhibits Arterial Smooth Muscle Cell Migration in Protein Kinase G-dependent Manner

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Oxidized LDL Promotes Endothelial NF-kappaB Activation and Inflammation Through Focal Adhesion Kinase-dependent RSK Signaling
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Inflammasome-induced Endothelial Microparticles Exert Detrimental Effects on Recipient Vascular Cells
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Vascular Endothelial Growth Factor - An Important Factor in HDL Binding and Transcytosis Through Aortic Endothelial Cells
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Hideto Sano, Yuko Suzuki, Hiroki Tanaka, Takayuki Iwaki, Tetsumei Urano, Hamamatsu Univ Sch of Med, Hamamatsu, Japan
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Constitutively Active Notch4 Receptor Promotes Flow-induced Arterial Outward Remodeling
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Cystathionine γ -Lyase Modulates Flow-dependent Vascular Remodeling
Shuai Yuan, Arif Yurdagul Jr., Jonette M. Green, Sibile Pardue, Christopher G. Kevil, A. Wayne Orr, Louisiana State Univ Health Sciences Ctr, Shreveport, Shreveport, LA
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Joshua L Heuslein, Richard J Price, Univ of Virginia, Charlottesville, VA
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Inhibition of MicroRNA-199a-5p Enhances Perfusion Recovery and Arteriogenesis Following Femoral Arterial Ligation
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Sylvia T Nurnberg, Stephanie Testa, Joebert Rosal, Susannah Elwyn, Wei Zhao, Daniel J Rader, Univ of Pennsylvania, Philadelphia, PA

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Jason A Brandon, Julia Vandra, Margo Ubele, Susan Smyth, Univ of Kentucky, Lexington, KY
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Graft-Derived IL-6 Amplifies Proliferation and Survival of Effector T Cells that Drive Alloimmune-Mediated Vascular Rejection
Anna von Rossum, Kevin Rey, Winnie Enns, Rajan Cheema, Grace E MacEwan, Sukh Manku, **Jonathan C Choy**, Simon Fraser Univ, Burnaby, BC, Canada

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Rosanna W.S. Chung, Per Leanderson, Anna K Lundberg, Lena Jonasson, Linköping Univ, Linköping, Sweden

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Stefanie Finger, Maik Knorr, Sabine Kossmann, Tanja Schönfelder, Susanne Karbach, Rebecca Schüler, Thomas Münzel, Philip Wenzel, Univ Medical Ctr of the Johannes Gutenberg-Univ, Mainz, Germany

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Matthew J Butcher, Tayab C Waseem, **Elena V Galkina**, Eastern Virginia Medical Sch, Norfolk, VA

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Thomas Jansen, Swenja Kröller-Schön, Eberhard Schulz, Thomas Münzel, Univsmedizin Mainz, Mainz, Germany

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Aditya A Joshi, **Joseph B Lerman**, Tsion M Aberra, Mohammad Tarek Kabbany, Heather L Teague, Joanna I Silverman, Qimin Ng, Tarek Z Aridi, Yvonne Baumer, Taufiq S Salahuddin, Marcus Y Chen, David A Bluemke, Justin Rodante, Natl Heart, Lung and Blood Inst, Bethesda, MD; Joel M Gelfand, Univ of Pennsylvania, Philadelphia, PA; Martin P Playford, Nehal N Mehta, Natl Heart, Lung and Blood Inst, Bethesda, MD

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Susanne Karbach, Nives Hörmann, Sven Jäckel, Tanja Schönfelder, Rebecca Schüler, Stefanie Finger, Sabine Kossmann, Maik Knorr, Moritz Brandt, Eivor Wilms, Inês Brandão, Ari Waisman, Thomas Münzel, Univ Medical Ctr

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Development of Near-infrared Fluorescent Probe for Targeted Uptake by Atherosclerotic Plaque Macrophages

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Long Non-coding RNA Regulation of the Interleukin-1 Gene Family Cluster

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Blocking Cadherin-11 Adhesion After Myocardial Infarction Preserves Cardiac Function

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Increased Migration of Neutrophils Across Endothelial Cells from Patients with Pulmonary Arterial Hypertension is Related to Reduced Platelet Endothelial Cell Adhesion Molecule -1 and is Prevented by the Neutrophil Elastase Inhibitor Elafin

Shalina Taylor, Jan-Renier Moonen, Kazuya Miyagawa, Mingxia Gu, Silin Sa, Jan Hennigs, Lingli Wang, Marlene Rabinovitch, Stanford Univ, Stanford, CA

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Diet-induced Obesity Requires Signalling Through Tumor Necrosis Factor Receptor-associated Factor 1 (TRAF-1) in Adipocytes

Dennis Wolf, Nathaly Anto Michel, Ingo Hilgendorf, Christoph Bode, Andreas Zirlik, Univ Heart Ctr Freiburg, University of Freiburg, Germany

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Puerarin Inhibits OxIdl-mediated Proinflammatory and Proatherogenic Effects in Human Macrophages

Heng Zhang, Zhenhua Zhai, Yao Li, Yueping Shi, **Ming-sheng Zhou Sr.**, Liaoning Medical Univ, Jinzhou, China

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Elucidating the Genetic Determinants of Extreme High-density Lipoprotein Phenotypes Using Next-generation Sequencing

Jacqueline S Dron, Jian Wang, Adam D McIntyre, John F Robinson, Matthew R Ban, Henian Cao, Robarts Res Inst, Western Univ, London, ON, Canada; David Rhoads, Guillaume Lettre, Marie-Pierre Dubé, Jean-Claude Tardif, Montréal Heart Inst, Univ de Montréal, Montréal, QC, Canada; Robert A Hegele, Robarts Res Inst, Western Univ, London, ON, Canada

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Activation of p53 in Pulmonary Arterial Endothelial Cells with Dysfunctional BMPR2 Rescues DNA Damage, Apoptosis and Persistent Pulmonary Hypertension

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Identifying Chylomicrons Using the Triglyceride/Total Cholesterol ratio (TG/TC) and non-Very Low-Density Lipoprotein Triglyceride (non-VLDL TG): The Very Large Database of Lipids Study (VLDL-7B)

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Development of Cell Therapy in Severe Familial Hypercholesterolemia

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Bone Morphogenetic Protein Inhibitors Play Important Roles in Brown and White Adipogenesis

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Impaired Glucose Metabolism in the Triggering Receptor Expressed in Myeloid Cells Like Transcript- 1 Null Mice A Link to Obesity

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Modulating VEGFR3 Signaling by Epsins Regulates Lymphatic Dysfunction in Diabetes

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Induction of Lysosomal Biogenesis in Adipose Tissue Macrophages Attenuates Inflammation and Cardiometabolic Disease

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Plasma Carnitine is Associated with Gut Microbiome Composition, Diet, and Markers of Cardiometabolic Health
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Ineffective Suppression of Adipocyte Lipolysis in Metabolic Syndrome: An *in vivo* Test for Adipocyte Insulin Resistance
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Targeting I κ B Kinase β in Adipocyte Lineage Cells for Treatment of Obesity and Metabolic Dysfunctions
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Cardiovascular Disease Prevalence and Risk Factors in Japanese and American Populations
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TRAIL Deletion in Mice Promotes Vascular Insulin Resistance
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Association Between Multiple Modifiable Risk Factors of Cardiovascular Disease and Hypertension in a Rural Population of the United States
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MicroRNA miR-29b is a Mediator of Aortic Stiffness and Hypertension in a Murine Model of Type 2 Diabetes Mellitus
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Wnt-Containing Microvesicles Are Upregulated in Vascular Smooth Muscle Cell Cultures and Plasma From SM22-Cre;LRP6(fl/fl);LDLR^{-/-} Mice
Abraham Behrmann, Jeffrey McDonald, Megan Mead, Bindu Ramachandran, Su-Li Cheng, John Stabley, UT Southwestern Medical Ctr, Dallas, TX; Bart Williams, Van Andel Res Inst, Grand Rapids, MI; **Dwight A Towler**, UT Southwestern Medical Ctr, Dallas, TX

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Targeted Delivery of microRNA-146a/-181b Protects Against Endothelial Dysfunction and Prevents Atherosclerosis
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Alpha Keto Acids Decompose Peroxides and Prevents Oxidation of Lipoproteins
Chandrakala Aluganti Narasimhulu, Kathryn Young Burge, Yu Yuan, Sampath Parthasarathy, The Univ of Central Florida, Orlando, FL

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Mutations in *FLT1* and *COL4A1* Protect Against Early Stage Atherosclerosis in Overfed Zebrafish Larvae
Marcel den Hoed, Lisa Conrad, Manoj Bandaru, Anastasia Emmanouilidou, Petter Ranefall, Carolina Wählby, Anders Larsson, Erik Ingelsson, Uppsala Univ, Uppsala, Sweden

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Reduced Dietary Cholesterol Availability in Infancy Programs Cholesterol Absorption in Adult Mice
Lidiya G. Dimova, Jan Freark de Boer, Henkjan J Verkade, Uwe J Tietge, Univ Medical Ctr Groningen, Groningen, Netherlands

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High-density Lipoprotein Cholesterol Efflux Does Not Predict Cardiovascular Risk in Hemodialysis Patients
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Effect of High-intensity Statin Therapy on High-density Lipoprotein (HDL) Subfractions and Regression of Coronary Atheroma: The SATURN Trial

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Endothelial Scavenger Receptor Class B, Type I (SR-BI) Mediates LDL Uptake by the Artery Wall and Promotes Atherosclerosis in Hypercholesterolemic Mice

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Targeting of Heparin Binding EGF-like Growth Factor (HBEGF) Suppresses Hyperlipidemia and Atherosclerosis in LDL Receptor Deficient Mice

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Oxidized Low-density Lipoprotein-induced Cell Membrane Damage in Bone Marrow Stem Cells is Independent of ROS Formation

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Novel Nanoparticles Berberine Chloride Oral Delivery Approaches Targeting PCSK9

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Efficient Excretion of Xenosterols in the Absence of Abcg5/Abcg8

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FGF15/19 Upregulates Hepatic ABCG5 and ABCG8 to Promote Biliary Cholesterol Secretion

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Novel Chimeric Anti-proteoglycan Antibody Inhibits Arterial Retention of Proatherogenic Lipoproteins in a Rat Model of Insulin Resistance

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Proteomic Characterization of Apolipoprotein A-II Defined Subfractions of Human High Density Lipoproteins

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Modification of HDL by γ -Ketoaldehydes Causes impaired HDL Function in Familial Hypercholesterolemia

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Macrophage SR-BI Suppresses Atherosclerosis by Modulation of Autophagy via VPS34/Belclin-1 Pathway

Huan Tao, Patricia G. Yancey, John L. Blakemore, Youmin Zhang, Lei Ding, W. Gray Jerome, Kasey C. Vickers, MacRae F. Linton, Vanderbilt Univ Sch of Med, Nashville, TN

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Silencing miR144 Enhances Regression and Attenuates Progression of Atherosclerosis

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Cholesterol Loading Increases the Size and Cholesterol Content of Nascent HDL Formed via the Interaction of Apo AI with Cellular ABCA1

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Accelerated Atherosclerosis in the Context of Rheumatoid Arthritis

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Allograft Inflammatory Factor 1 Promotes Key Macrophage Functions that Limit Plaque Destabilization

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Response Gene to Complement 32 Promotes Atherosclerosis Through Endothelial Cell Dysfunction Induced Vascular Inflammation
Xiaobing Cui, Junna Luan, Shiyu Chen, The Univ of Georgia, Athens, GA
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Deletion of Alternatively Spliced Extra Domain A of Cellular Fibronectin Stabilizes Advanced Rupture-Prone Plaques in Hyperlipidemic Mice
Prakash Doddapattar, Nirav Dhanesha, Prem Prakash, Steven R Lentz, Anil K Chauhan, Hematology, Oncology and Blood and Marrow Transplantation, Iowa City, IA
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Genetic Inactivation of Col15a1 in Smooth Muscle Cells Decreases Plaque Size and Decreases Indices of Plaque Stability
Brittany G Durgin, Olga A Cherepanova, Gary K Owens, Jessica J Connelly, Univ of Virginia, Charlottesville, VA
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The Role of Interleukin-23 in the Development of Atherosclerosis
Aliia Fatkhullina, Iuliia Peshkova, Ekaterina Koltsova, Fox Chase Cancer Ctr, Philadelphia, PA
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