Cardiovascular diseases afflict people of all races, ethnicities, genders, religions, ages, sexual orientations, national origins and disabilities. The American Heart Association is committed to ensuring that our workforce and volunteers reflect the world's diverse population. We know that such diversity will enrich us with the talent, energy, perspective and inspiration we need to achieve our mission: building healthier lives, free of cardiovascular diseases and stroke.

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Arteriosclerosis, Thrombosis and Vascular Biology | Peripheral Vascular Disease
Scientific Sessions 2016

Final Program and Abstracts
May 5-7, 2016 | Omni Nashville Hotel | Nashville, Tennessee

## Program at a Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Wednesday May 4, 2016</th>
<th>Thursday May 5, 2016</th>
<th>Friday May 6, 2016</th>
<th>Saturday May 7, 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am</td>
<td>Separate registration may be required for the meetings listed below.</td>
<td>Registration, Continental Breakfast, Exhibits</td>
<td>Early Career Training Session</td>
<td>Registration, Continental Breakfast, Exhibits</td>
</tr>
<tr>
<td>8:00 am</td>
<td>8:00–10:00 Vascular Research Initiative Conference 2016</td>
<td>Conference Opening and Plenary Session I Functional Genomics: Moving from Association to Understanding Mechanisms of Disease</td>
<td>8:00–10:30 Plenary Session III Highlights from the ATVB Journal</td>
<td>Registration</td>
</tr>
<tr>
<td>11:00 am</td>
<td>NOON</td>
<td>11:30–1:10 Lunchen Workshop: Think Fast, Talk Smart: Smart, Connected, Connected and Compelling Presentations (ticket required) Or lunch on your own</td>
<td>NOON Closing Remarks/Adjourn</td>
<td>HDL Structure-Function Workshop Saturday/Sunday Separate registration required</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>1:10–3:10 Plenary Session IV Young Investigator Award Competition Brinhouse Prize and Page Award</td>
<td>1:10–3:10 Plenary Session IV Young Investigator Award Competition Brinhouse Prize and Page Award</td>
<td>1:10–3:10 Plenary Session IV Young Investigator Award Competition Brinhouse Prize and Page Award</td>
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<tr>
<td>7:00 pm</td>
<td>7:00–10:00 Noon-Generation Technology Bootcamp 2</td>
<td>7:00–10:00 Noon-Generation Technology Bootcamp 2</td>
<td>7:00–10:00 Noon-Generation Technology Bootcamp 2</td>
<td>7:00–10:00 Noon-Generation Technology Bootcamp 2</td>
</tr>
<tr>
<td>9:30 pm</td>
<td>9:00–10:00 Poster Session and Reception</td>
<td>9:00–10:00 Poster Session and Reception</td>
<td>9:00–10:00 Poster Session and Reception</td>
<td>9:00–10:00 Poster Session and Reception</td>
</tr>
</tbody>
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**Legend:**
- **Plenary Session**
- **Concurrent Session**
- **Presentation Skills Training**
- **Meals/Breaks**
- **Other Meetings of Interest**

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## Contents

**Abstracts**
- ATVB Journal Young Investigator Award Recipients .......................................................... 39
- Author Index .......................................................................................................................... 71
- Oral Abstracts ....................................................................................................................... 32
- Poster Abstracts .................................................................................................................... 39

**Conference Highlights**
- Early Career Activities ........................................... 11
- New in 2016 ......................................................................................................................... 12
- Lectures and Awards ............................................................................................................ 13

**Faculty**
- Abstract Reviewers ................................................................................................................. 7
- Invited Moderators ............................................................................................................... 6
- Invited Presenters .................................................................................................................. 5
- Program Committee .............................................................................................................. 4

**General Information**
- Learning Objectives ............................................................................................................. 9
- Exhibits .................................................................................................................................... 9

**Information for Presenters**
- Speaker Resource Room ....................................................................................................... 10
- Poster Set-up/Tear-Down Schedule ....................................................................................... 10
- ePosters .................................................................................................................................. 10

**Other Meetings of Interest** ................................................................................................ 20

**Policy Information** ............................................................................................................ 19

**Program Agenda**
- Thursday, May 5 .................................................................................................................. 21
- Friday, May 6 ......................................................................................................................... 26
- Saturday, May 7 ..................................................................................................................... 31

**Room Locator** .................................................................................................................... 8

**Ticketed Events**
- Council Dinner ...................................................................................................................... 12
- Mentor of Women Luncheon .................................................................................................. 12
- Lunch and Lecture (supported by Merck) ............................................................................. 12
- PVD Annual Business Meeting and Networking Luncheon ................................................ 12
- Venue and Transportation ..................................................................................................... 18

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**Save the Date!**

**ATVB 2017 Scientific Sessions**
May 4–6, 2017 | Hyatt Regency | Minneapolis, Minnesota

Next year’s conference: May 4–6, 2017 ... visit professional.heart.org for more information.
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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           214.570.5935 (outside the United States)

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• Select the conference you are interested in attending for more details, such as Registration & Housing, Programming, and Abstracts & Awards.

• If you have additional questions, please email us at scientificconferences@heart.org or call toll-free 888.242.2453
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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The conference organizers gratefully acknowledge the following individuals for their assistance with the abstract grading process:

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Nancy R. Webb, PhD, FAHA
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Geoff Werstuck, PhD
Alisa Wolberg, PhD
Bachhu Xu, MD, PhD
Wei Zhou, MD
**Room Locator**

<table>
<thead>
<tr>
<th>Wednesday, May 4</th>
<th>Broadway Ballroom E</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAAC Symposium</td>
<td>Broadway Ballroom E</td>
</tr>
<tr>
<td>CAAC China Night</td>
<td>Cumberland 1-2</td>
</tr>
<tr>
<td>Registration</td>
<td>Broadway Ballroom E</td>
</tr>
<tr>
<td>Exibits</td>
<td>Broadway Ballroom E</td>
</tr>
<tr>
<td>Speaker Resource</td>
<td>Broadway Ballroom E</td>
</tr>
<tr>
<td>Vascular Research</td>
<td>Broadway Ballroom A-B</td>
</tr>
<tr>
<td>Conference (VRIC)</td>
<td>Broadway Ballroom E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thursday, May 5</th>
<th>Broadway Ballroom E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Center</td>
<td>Broadway Ballroom E</td>
</tr>
<tr>
<td>Concurrent Session A</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>Concurrent Session B</td>
<td>Broadway Ballroom E</td>
</tr>
<tr>
<td>Concurrent Session C</td>
<td>Broadway Ballroom E</td>
</tr>
<tr>
<td>Early Career Training</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>Lunch and Lecture</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>Mentor of Women Award Luncheon</td>
<td>Broadway Ballroom E</td>
</tr>
<tr>
<td>Moderated PVD Poster Session</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>Next Generation Technology Bootcamp (ticket required)</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>Plenary Sessions</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>Poster Session and Reception</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>PVD Annual Business Meeting and Networking Luncheon (ticket required)</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>Refreshment Breaks</td>
<td>Broadway Ballroom E</td>
</tr>
<tr>
<td>Registration</td>
<td>Broadway Ballroom E</td>
</tr>
<tr>
<td>Speaker Resource Room</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>Special NHLBI Report</td>
<td>Broadway Ballroom E</td>
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<tr>
<th>Friday, May 6</th>
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<tr>
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<td>Broadway Ballroom E</td>
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<td>Broadway Ballroom E</td>
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<tr>
<td>Speaker Resource Room</td>
<td>Broadway Ballroom E</td>
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<th>Saturday, May 7</th>
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<tr>
<td>Communication Center</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>HDL Workshop 1:30–6:00 PM</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>Plenary Sessions</td>
<td>Broadway Ballroom E</td>
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<td>Poster Session and Reception</td>
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<tr>
<th>Sunday, May 8</th>
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<tr>
<td>HDL Workshop 8:00 AM–12:00 PM</td>
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<tr>
<td>CAAC China Night</td>
<td>Cumberland 1-2</td>
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<td>Vascular Research</td>
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<td>Conference (VRIC)</td>
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<td>Poster Session and Reception</td>
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<td>Refreshment Breaks</td>
<td>Broadway Ballroom E</td>
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<td>Broadway Ballroom E</td>
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<tr>
<td>Special NHLBI Report</td>
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<td>Speaker Resource Room</td>
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<tr>
<td>Communication Center</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>HDL Workshop 1:30–6:00 PM</td>
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<td>Plenary Sessions</td>
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<td>Poster Session and Reception</td>
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<td>Speaker Resource Room</td>
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<tr>
<th>Sunday, May 8</th>
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<tr>
<td>HDL Workshop 8:00 AM–12:00 PM</td>
<td>Broadway Ballroom E</td>
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<tr>
<td>Registration</td>
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<tr>
<td>Speaker Resource Room</td>
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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
Alan Daugherty, PhD, DSc

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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:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tr>
<td>Wednesday, May 4</td>
<td>3:00–6:00 PM</td>
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<td>Thursday, May 5</td>
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<td>Friday, May 6</td>
<td>7:00 AM–6:00 PM</td>
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<tr>
<td>Saturday, May 7</td>
<td>7:30–10:30 AM</td>
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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:

<table>
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<tr>
<th>Poster Session Date</th>
<th>Location</th>
<th>Presentation Time</th>
<th>Attendance Time</th>
<th>Set-up Time</th>
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<tr>
<td>Session I</td>
<td>Legends Ballroom</td>
<td>6:00–8:00 PM</td>
<td>6:00–8:00 PM</td>
<td>11:00 AM–5:30 PM</td>
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<tr>
<td>Moderated PVD Posters</td>
<td>Legends Ballroom Prefunction Area</td>
<td>6:00–7:00 PM</td>
<td>6:00–7:00 PM</td>
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<td>Session II</td>
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<td>5:15–7:15 PM</td>
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<td>Session III</td>
<td>Legends Ballroom</td>
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**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.
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 Kangaroo: 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

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 sessions 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

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.
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 cardiometabolic 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*
At 1:10 p.m. 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

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Sudipta Biswas, PhD</td>
<td>40</td>
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<tr>
<td>Kyungho Kim, PhD</td>
<td>41</td>
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<tr>
<td>Colin A. Kretz, PhD</td>
<td>42</td>
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<tr>
<td>Jeremy P. Wood, PhD</td>
<td>43</td>
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</tbody>
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ATVB Irvine H. Page Young Investigator Research Award Finalists

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<tr>
<th>Name</th>
<th>Presentation Number</th>
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<tr>
<td>Gabrielle Fredman, PhD</td>
<td>44</td>
</tr>
<tr>
<td>Claudia Goettsch, PhD</td>
<td>45</td>
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<tr>
<td>Rebecca A. Haesler, PhD</td>
<td>46</td>
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<tr>
<td>Eric P. van der Veer, PhD</td>
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</tbody>
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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

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<tr>
<th>Name</th>
<th>Presentation Number</th>
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<tbody>
<tr>
<td>Amy C. Burke, BMSc</td>
<td>95</td>
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<tr>
<td>Rebecca C. Schugar, PhD</td>
<td>96</td>
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<tr>
<td>Htet W. Khine, MD</td>
<td>97</td>
</tr>
<tr>
<td>Anastasia Sacharidou, PhD</td>
<td>98</td>
</tr>
<tr>
<td>Aditi Upadhye, BS</td>
<td>99</td>
</tr>
</tbody>
</table>

Your invitation to submit to

JAHA – Journal of the American Heart Association

Submit at: jaha-submit.aha-journals.org

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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

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

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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Presentation Number</th>
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</thead>
<tbody>
<tr>
<td>Alicia N. Lyle, PhD</td>
<td>11</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Presentation Number</th>
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<tbody>
<tr>
<td>Zhenheng Guo, PhD</td>
<td>316</td>
</tr>
</tbody>
</table>
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

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

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Presentation Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sylvia T. Nurnberg, PhD</td>
<td>574</td>
</tr>
</tbody>
</table>

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: - #atvbpvd16.
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 615-662-5950 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 A/V 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 cities, 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

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

The Importance of Mentoring and Being Mentored
Katey Rayner, PhD, University of Ottawa Heart Institute, Ottawa, ON
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, 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

Ten Years and Hundreds of Novel Cardiovascular Loci: What Now?
Erik Ingelsson, MD, PhD, FAHA, Uppsala University, Stockholm, Sweden

From Locus Association to Mechanism of Gene Causality
Thomas Quertermous, MD, Stanford University, Stanford, CA

8:30

9:00

9:30

10:00–10:20 AM
Broadway Ballroom Prefunction
Refreshment Break and Exhibits

Next year’s conference: May 4–6, 2017 ... visit professional.heart.org for more information.
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<sup>high</sup> Circulating Monocytes and their STAT6-Mediated M2 Polarization

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 Geoffron, Lihui Wei, Wei Gan, Univ of Ottawa Heart Inst, Ottawa, ON, Canada; Lubica Perisic, Lars Maegdefessel, Ulf Hedlin, 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

11:35
Enhancing the Ability of Macrophages to Orchestrated 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

Oral Abstract Presentations

10:50
The RNA-Binding Protein ADAR2 Controls Interleukin-6-induced Endothelial Cell Proinflammatory 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. Hurmhey, 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
Ikjai 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 Fujwara, Nhat Tu Le, MD Anderson Cancer Center, Houston, TX

11:50
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
Ikjai 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 Fujwara, Nhat Tu Le, MD Anderson Cancer Center, Houston, TX
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Speakers/Institutions</th>
</tr>
</thead>
</table>
| 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 | 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 |
| 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 | Broadway Ballroom C-D  
Concurrent Session I C  
Translational Science of Vascular Medicine: Vascular Dysfunction  
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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**  
**Meerakshi S. Madhur**, Vanderbilt University School of Medicine, Nashville, TN | 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 |
| 10:50 | **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 | 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 |
| 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 | 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 |
| 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 | 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 |
| 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 | 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 |
| 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 | Cumberland Ballroom East  
Concurrent Session V  
Scientific Career Development  
Organized in cooperation with the Council on Clinical Cardiology  
Concurrent Session III  
Cardiovascular Imaging: Assessment and Management | **Moderators:**  
Lars Maegdefessel, MD, PhD, Karolinska Institute, Stockholm, Sweden  
David G. Harrison, MD, FAHA, Vanderbilt University School of Medicine, Nashville, TN |
| 12:05–1:25 PM | **Music Row 5 (Level 2)**  
PVD Annual Business Meeting and Networking Luncheon  
(ticket required) | Cumberland Ballroom East  
Concurrent Session V  
Scientific Career Development  
Organized in cooperation with the Council on Clinical Cardiology  
Concurrent Session III  
Cardiovascular Imaging: Assessment and Management | **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 | 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 |
| 1:55 | **NETs Fueling Cardiovascular and Thrombotic Disease**  
**Denisa D. Wagner**, PhD, FAHA, Boston Children's Hospital, Harvard Medical School, Boston, MA | 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 |
| 2:25 | **Patient-specific Blood Phenotypes in a Hemodynamic Context**  
**Scott Diamond**, PhD, University of Pennsylvania, Philadelphia, PA | 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 |
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; Tiane 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. Shaual, 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 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

4:45 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

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

Oral Abstract Presentations

3:45 Role of Adenosine-to-Inosine RNA Editing of Alu Elements in Human Vascular Inflammatory Diseases
Konstantinos Stellos, Alkaterini 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; 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-
Program Agenda (continued)

Cereceda, Lars Maegdefessel, Karolinska Inst, Stockholm, Sweden; Wei Chen, Max Delbrück Ctr for Molecular Med Berlin-Buch, Berlin, Germany; Harald Schwabe, 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 Dimmel, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany

4:00 Nogo-B Controls Inflammation by Regulating Autophagy in Macrophage
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
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 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

4:45 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 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

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
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
Latha Muniappan, Aida Javidan, Weihua Jiang, Jessica J. Moorleghen, Anju Balakrishnan, Venkateswaran Subramanian, University of Kentucky, Lexington, KY

4:45 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
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 form 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 Hoefer, 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
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
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
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
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

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

Oral Abstract Presentations

10:20  
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

10:35  
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 Holinstat, Univ of Michigan, Ann Arbor, MI

10:50  
Impact of Thrombomodulin and Thrombin-activatable Fibrinolytic Inhibitor on the Anti-coagulant and Pro-fibrinolytic Effects of Rivaroxaban
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
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
### Program Agenda (continued)

#### 11:20 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

#### Oral Abstract Presentations

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>10:50</td>
<td>Measure of Appropriateness in the Placement of Intravacaval Filters Among Guidelines from Major Medical Societies</td>
<td>Shil Patel, Natalie Swergold, Saye Sundar, Alagusundaramoorthy, Isya Verma, Thomas Baker, Margaret Eng, Monmouth Medical Ctr, Long Branch, NJ</td>
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<tr>
<td>11:05</td>
<td>Integration of Different Platelet Activity Assays into a Reproducible Platelet Score</td>
<td>Jeffrey S. Berger, Emilie Montenon, Liza Karotkin, Nicole M Allen, Michael A. Nardi, Jinfeng Xu, Yu Guo, Judith S. Hochman, New York University Schl Med, New York, NY</td>
</tr>
<tr>
<td>11:20</td>
<td>Platelet Reactivity to Prostaglandin E2 is a Novel Modifiable Risk Factor for St-Elevation Myocardial Infarction</td>
<td>Eitan A. Friedman, Elias V. Haddad, Valentinas Joksas, Shi Huang, Meng Xu, Olivier Boutaud, Vanderbilt Univ, Nashville, TN</td>
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#### 11:35 AM–1:10 PM

**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

**Plenary Session IV**  
**Young Investigator Award Competition**

**Kenneth M. Brinkhous Young Investigator Prize in Thrombosis Competition**

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<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>1:10</td>
<td>Prothrombotic Role of Platelet Tlr2 in Hyperlipidemia</td>
<td>Sudipta Biswas, Cleveland Clinic Fndn Learner Res Inst, Cleveland, OH; Liang Xin, Case Western Reserve Univ, Cleveland, OH; Soumya Panigrahi, Alejandro Zimman, Valent 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</td>
</tr>
<tr>
<td>1:25</td>
<td>Platelet Dream Plays A Critical Role During Thrombogenesis In Mice</td>
<td>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</td>
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<tr>
<td>1:40</td>
<td>Genetic Ablation of TMEM16F Exhibits Strain-specific Lethality in Mice</td>
<td>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</td>
</tr>
<tr>
<td>1:55</td>
<td>Prothrombinase Assembled with Factor V Leiden is Resistant to Inhibition by Tissue Factor Pathway Inhibitor α Lowering the Procoagulant Threshold for Initiation of Coagulation</td>
<td>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</td>
</tr>
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</table>
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  
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  
Claudia Goettsc, Joshua Hutcheson, Hiroshi Iwata, Sumihiko Hagita, Peter Libby, Masaanori 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  
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 Chakravarty, 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  
Ruben G. de Bruin, Leiden Univ Medical Ctr, Leiden, Netherlands; Lily Shiue, Univ of California Santa Cruz, Santa Cruz, CA; Jurrien Prins, Leiden Univ Medical Ctr, Leiden, Netherlands; Anjana Djaramshi, Maastricht Univ Medical Ctr, Maastricht, Netherlands; 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; Tony 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

Oral Abstract Presentations

4:00  Administration of Gut Bacteria Expressing N-acyl Phosphatidylethanolamine Reduces Steatohepatitis In LDLR-/- Mice Fed a Western Diet  
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  
Tessa J. Barrett, Emilie Distel, Yoscar Ogando, Yaritz 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  
Sushma Kaul, Elisa Maruko, Hao Xu, Medical Coll of Wisconsin, Milwaukee, WI; Mete Civelek, University 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
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, NY

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, CA; John J Kastelein, Univ of Amsterdam, Amsterdam, Netherlands

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
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 5HT2A in alphabliBeta3 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/Ca++-dependent ROS Signaling Pathway Mediating Platelet Activation
Zheng Xu, Univ of Illinois at Chicago, Chicago, IL

4:30
Traf3 Negatively Regulates Platelet Activation and Thrombosis
Rui Zhang, Guangyong 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
Jenyca Zilberman-Rudenko, Chantal Wieseneck, 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

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

3:30
Yuqi Zhao, UCLA, Los Angeles, CA; Jing Chen, Johannes M. Frenadenberg, 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

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

3:30
Yuqi Zhao, UCLA, Los Angeles, CA; Jing Chen, Johannes M. Frenadenberg, 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
### Program Agenda  (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
</table>
| 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. | Broadway Ballroom East  
Legends Ballroom  
Broadway Ballroom East |
| 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 | |

Next year's conference: May 4–6, 2016... visit my.americanheart.org for more information.
Oral Abstract Presentations

1 Atherosclerosis Regression is Dependent upon Newly Recruited Ly6C<sup>high</sup> Circulating Monocytes and Their STAT6-Mediated M2 Polarization


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

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

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

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 Persic, Lars Maegdfessel, 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; Kaley J Rayner, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

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

4 Enhancing the Ability of Macrophages to Orchestrate Selective Autophagy and Lysosomal Biogenesis Protects Against Atherosclerosis

**Ismail Sergin**, Somashubhra Bhattacharya, Xiaygu 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

**Youngha 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 Zeier, 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 mag1 is required for Disturbed Flow-induced Endothelial Inflammation and Atherosclerotic Plaque Formation

Ikjai 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, Yehudith 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, Saghgar Harirforoosh, 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.
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 Haflie, 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

Identification of a High Density Lipoprotein Proteomic Signature Associated With Atherosclerosis Severity in Humans
Scott M Gordon, Natl Insts of Health, Bethesda, MD; Tiane Cui, George Mason Univ, Fairfax, VA; Denis Svirodov, Natl Insts of Health, Bethesda, MD; Ancha Baranova, George Mason Univ, Fairfax, VA; Marcus Chen, Alan T Remaley, Natl Insts of Health, Bethesda, MD

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

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

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

Role of Adenosine-to-Inosine RNA Editing of Alu Elements in Human Vascular Inflammatory Diseases
Konstantinos Stellos, Alkaterini 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-Cereceda, Lars Maegdefessel, Karolinska Inst, Stockholm, Sweden; Wei Chen, Max Delbrück Ctr for Molecular Med Berlin-Buch, Berlin, Germany; Harald Schwabke, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany; Albrecht Bindereif, Univ of Giessen, Frankfurt am Main, Germany; Per Eriksson, Ulf Hedlin, Karolinska Inst, Stockholm, Germany; Andreas M Zeiher, Stefanie Dimmel, J.W. Goethe Univ Frankfurt, Frankfurt am Main, Germany

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 McArde, 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

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

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; Hellen 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

AtETosis 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
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34

35 Inducible Depletion of Calpain-2 Attenuates Angioprotein II-induced Cytoskeletal Structural Protein Destruction During Abdominal Aortic Anueirym Development in Mice Latha Muniappan, Aida Javidan, Weihua Jiang, Jessica J Moorleghen, 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.

36 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

37 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, Univeristy of Alabama at Birmingham, Birmingham, AL; Thomas B. Thompson, W. Sean Davidson, Univ of Cincinnati, Cincinnati, OH

38 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

39 Alpha-1-antitrypsin Protects High Density Lipoprotein from Functional Inactivation by Elastase Scott M Gordon, Denis Svrindov, 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, Biao Wu, Anuram 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 Holinstat, 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.

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

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

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

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

39 Platelet Reactivity to Prostaglandin E2 is a Novel Modifiable Risk Factor for St-Elevation Myocardial Infarction

This research has received full or partial funding support from the American Heart Association.
Eitan A. Friedman, Elias V. Haddad, Valentinias Joksas, Shi Huang, Meng Xu, Olivier Boutaud, Vanderbilt Univ, Nashville, TN

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

40
Prothrombotic Role of Platelet Tlr2 in Hyperlipidemia
Sudipta Biswas, Cleveland Clinic Fndn Learner Res Inst, Cleveland, OH; Lian 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

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

41
Platelet Dream Plays a Critical Role During Thrombogenesis in Mice
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

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

42
Genetic Ablation of TMEM16F Exhibits Strain-specific Lethality in Mice
Colin A Krstz, Univ of Michigan, Ann Arbor, MI; Gary Gilbert, Brigham and Women’s Hosp, Boston, MA; David Ginsburg, Univ of Michigan, Ann Arbor, MI

43
Prothrombinase Assembled with Factor V Leiden is Resistant to Inhibition by Tissue Factor Pathway Inhibitor α Lowering the Procoagulant Threshold for Initiation of Coagulation
Jeremy P Wood, Lisa M. Baumann, 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

44
Atherosclerosis Progression is Associated with a Decrease in Pro-Resolving Mediators and Can Be Mitigated With Restoring Resolvin D1
Gabrielle Friedman, 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

45
Sortilin Regulates Arterial Calcification in Atherosclerotic Mice and Associates With Cardiovascular Risk in Humans
Claudia Goettsc, Joshua Hutcheson, Hiroshi Iwata, Sumihiyo Hagita, Peter Libby, Masanori Akikawa, 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

46
Bile Acid Synthesis and 12-Hydroxylation are Increased, and Bile Acid Transport is Impaired in Human Obesity
Rebecca Haeusler, Columbia Univ, New York, NY; Stefania Camasta, Monica Nannipieri, Brenno Astoniara, 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

47
Quaking Post-Transcriptionally Promotes Differentiation of Monocytes Into Pro-Atherogenic Macrophages by Controlling Pre-mRNA Splicing and Gene Expression
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

48
Administration of Gut Bacteria Expressing N-acetyl Phosphatidylethanolamine Reduces Steatohepatitis in LDLR-/ Mice Fed a Western Diet
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

49
Elevating Apolipoprotein A-I Levels Promotes Atherosclerosis Regression in Diabetic Mice by Inhibiting Proliferation of Bone Marrow Monocyte Precursors
Tessa J Barrett, Emilie Distel, Yoscar Ogando, Yaritzy 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

50
Procollagen C-endopeptidase Enhancer protein 2 (PCPE2) Deficiency Profoundly Affects Adipose Distribution in Mice and Humans and Links HDL Metabolism to Adipocyte Biology
Sushma Kaul, Elisa Maruko, Hao Xu, Medical Coll of Wisconsin, Milwaukee, WI; Mete Civelek, University 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

51
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, NY

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

52

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

53

Role of Serotonin through 5HT2A in alphallbBeta3 Outside-in Activation

Kendra H Oliver, Matthew Duvermay, Heidi E Hamm, Ana M. Carneiro, Vanderbilt Univ, Nashville, TN

54

Differential Regulation of NADPH-oxidases 1 and 2 and a Common Syk/PLC/Ca2+/Dependent ROS Signaling Pathway Mediating Platelet Activation

Zheng Xu, Univ of Illinois at Chicago, Chicago, IL

55

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

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

56

Coagulation Factor XI Promotes Distal Platelet Activation and Single Platelet Consumption in the Bloodstream Under Shear Flow

Jenya Zilberman-Rudenko, Chantal Wiesenecker, Asako Itakura, Owen J McCarty, Oregon Health & Science Univ, Portland, OR

57

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

58

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; Qiangyi Meng, UCLA, Los Angeles, CA; CARDioGRAM Consortium; Deepak K Rajpal, GSK, Collegeville, PA; Xia Yang, UCLA, Los Angeles, CA

59

MicroRNAs Function to Limit Vascular Development Flexibility

Stefania Nicoli, Yale Cardiovascular Res Ctr, New Haven, CT

60

Shear Stress Maintains Endocardial Phenotype in Ipsc Derived Endocardial Cells

Mark Vander Roest, Camryn Johnson, H. Scott Baldwin, W. David Merryman, Vanderbilt Univ, Nashville, TN

61

Hedgehog-Responsive Stem Cell Antigen 1 Positive Cells Contribute To Vascular Smooth Muscle Cell Accumulation Following Vascular Injury

Emma Fitzpatrick, Dublin City Univ, Dublin, Ireland; Jay-Christine Helst, 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

62

Selenoprotein P Promotes Vascular Smooth Muscle Cell Proliferation and Pulmonary Hypertension - A Possible Novel Therapeutic Target-

Nobuhiro Kikuchi, Kimio Satoh, Junichi Omura, Taijyu Satoh, Ryo Kurosawa, Masamichi Nogi, Tomohiro Otsuki, Kazuhiro Numano, Katsuya Kozu, Kola Suzuki, Shinichiro Sunamura, Shunsuke Tatebe, Tatsuo Aoki, Koichiro Sugimura, Hiroaki Shimokawa, Tohoku Univ, Aobaku, Sendai, Miyagi, Japan
ATVB Journal Young Investigator Award Recipients

92 Increased High-density Lipoprotein Cholesterol Levels in Mice with XX versus XY Sex Chromosomes

93 Local microRNA Modulation Using a Novel anti-miR-21-eluting Stent Effectively Prevents Experimental In-stent Restenosis
Dong Wang, Tobias Deuse, Mandy Stubbendorff, Ekaterina Chemogubova, Reinhold G. Erben, Suzanne M. Eken, Hong Jin, Christian Heeger, Boris Behnisch, Hermann Reichenspurner, Robert C. Robbins, Joshua M. Spin, Philip S. Tsao, Sonja Schreper, and Lars Maegdefessel

Poster Abstract Presentations

95 Naringenin Supplementation of a Low-Fat Diet Enhances the Reversal of Metabolic Dysfunction, Promotes Atherosclerosis Regression and Improves Lesion Pathology in Ldlr Mice
Amy C. Burke, Brian G Sutherland, Cynthia G Sawyez, Dawn Telford, Murray W Huff, Univ of Western Ontario, London, ON, Canada.

96 The Role of Flavin Monooxygenase 3 (FMO3) in Dietary Choline- and Cholesterol-Driven Atherosclerosis
Rebecca C. Schugar, Anthony D Gromovsky, Amanda L Brown, Amy C Burrows, Daniel L Ferguson, Cleveland Clinic, Cleveland, OH; Mark J Graham, Rosanne M Crooke, Richard G Lee, Ionis Pharmaceuticals Inc, Carlsbad, CA; Zeneng Wang, Stanley L Hazen, J. Mark Brown, Cleveland Clinic, Cleveland, OH
This research has received full or partial funding support from the American Heart Association.

97 Association of the Serum Myeloperoxidase/High-Density Lipoprotein Particle Ratio and Incident Cardiovascular Events in a Multi-Ethnic Population: Observations From the Dallas Heart Study
Het H W Khine, John F Teiber, Robert W Haley, Amit Khera, Anand Rohatgi, UT Southwestern Medical Ctr, Dallas, TX
This research has received full or partial funding support from the American Heart Association.

98 Antiphospholipid Antibodies Induce Thrombosis by Activating Endothelial PP2A via ApoER2-Dab2-PSD95 Complex Formation
Anastasia Sacharidou, Philip Shaul, Chieko Mineo, UT Southwestern Medical Ctr, Dallas, TX

99 CXCR4 Mediates B-1 Cell Localization in the Bone Marrow and Production of Atheroprotective IgM Antibody
Aditi Upadhye, Chantel McSkimming, Angela Taylor, Coleen McNamara, Univ of Virginia, Charlottesville, VA

100 An XY Sex Chromosome Complement in Females Confers Susceptibility and Rupture of Angiotsenin II-induced Abdominal Aortic Aneurysms in Hypercholesterolemic Female Mice
Yasir Alsiraj, Sean Thatcher, Eric Blalock, Kuey Chen, Richard Charnigo, Alan Daugherty, Lisa Cassis, Univ of Kentucky, Lexington, KY
This research has received full or partial funding support from the American Heart Association.

101 Characteristics of Angiotsenin II-induced Abdominal Aortic Aneurysms in Selected Mouse Strains Expressing PCSK9D377Y
Anju Balakrishnan, Deborah A Howatt, Alan Daugherty, Hong Lu, Univ of Kentucky, Lexington, KY

102 Number of Reentry Tears Influences Flap Motion and Flow Reversal in an in vitro Model of Type B Aortic Dissection
Joav Birjiniuk, Emory Univ Sch of Med, Atlanta, GA; Mark Young, Medtronic, Inc., Santa Rosa, CA; Lucas H Timmins, Bradley G Leshnower, John N Oshinski, Emory Univ Sch of Med, Atlanta, GA; David N Ku, Georgia Inst of Technology, Atlanta, GA; Ravi K Veeraswamy, Emory Univ Sch of Med, Atlanta, GA

103 Circulating sRAGE is Elevated in Patients with Marfan Syndrome and Decreases After Surgical Replacement of Diseased Aortic Segments
Eric K Lai, Daniel J Wytwich, Giovanni Ferrari, Joseph E Bavaria, Reed E Pyeritz, Emanuela Branchetti, Univ of Pennsylvania, Philadelphia, PA

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104 Cilnidipine Attenuated Angiotensin II-induced Abdominal Aortic Aneurysms in Apolipoprotein E-deficient Mice via Its Anti-oxidative Stress Effect
Yuki Kakio, Haruhito A Uchida, Ryoko Umebayashi, Jun Wada, Okayama Univ Grad Schl of Med, Okayama, Japan

105 Increased Dynamic Mechanical Energy Dissipation in Human Abdominal Aortic Aneurysm
Doran S Mix, Ibrahima Bah, Sandra A Toth, Michael C Stoner, Adam J Doyle, Jennifer L Ellis, Roan Glocker, Mark R Buckley, Michael Richards, Univ of Rochester Medical Ctr, Rochester, NY

106 Characterizing Aortic Wall Dynamics in Murine Models of Abdominal Aortic Aneurysms Using Ultrasound Imaging
Arvin H Soepratna, Frederick W Damen, Pavlos P Vlachos, Craig J Goergen, Purdue Univ, West Lafayette, IN

107 Depletion of Plasmacytoid Dendritic Cells Inhibits Experimental Abdominal Aortic Aneurysms
Baohui Xu, Haojun Xuan, Naoki Fujimura, Sara A Michie, Ronald L Dalman, Stanford Univ Sch of Med, Stanford, CA

108 Alcohol-related Diagnoses are Associated with High Mortality in Patients with Peripheral Arterial Disease
Mohamed Abdel-Aal Ahmed, Anuradha Mendu, Scott H Stewart, Siva Harsha Yedlapati, Univ at Buffalo, Buffalo, NY

109 Statins Have a Dose-dependent Effect on Amputation Risk and Survival in Peripheral Arterial Disease (PAD) Patients
Shipra Arya, Anjali Khakharia, Zachary O Binney, Emory Univ, Atlanta, GA; Randall R Demartino, Mayo Clinic, Rochester, MN; Luke P Brewster, Emory Univ, Atlanta, GA; Philip P Goodney, Geisel Sch of Med Dartmouth-Hitchcock, Lebanon, NH; Peter W Wilson, Emory Univ, Atlanta, GA
This research has received full or partial funding support from the American Heart Association.

110 Carotid Plaque Instability is Associated with an Increase in the Serum Ratio of circularRNA-284 to microRNA-221
Hernan Bazan, Ashton Brooks, Ochsner Clinic, New Orleans, LA; Daniel Lightell, Jr, Tulane Sch of Med, New Orleans, LA; T. Cooper Woods, Tulane Univ, New Orleans, LA

111 Statin Treatment Ameliorated HIV-Nef Induced Vascular Dysfunction in Transgenic Mice
Sarvesh Chelvanambi, Noelle Dahl, Xingjuan Chen, Alexander G Obukhov, Matthias Clauss, Indiana Univ, Indianapolis, IN
This research has received full or partial funding support from the American Heart Association.

112 Low Plasma Low-density Lipoprotein Cholesterol Level as a Risk Factor for Cancer in Patients With Newly Diagnosed Coronary Artery Disease
Xiaofeng Chen, Jianjun Jiang, Haihua Yang, Bing Wang, Yinhsheng Xue, Taizhou Hosp, Wenzhou Medical Univ, Taizhou, Zhejiang Province, China; Xiaowei Liu, Lijiang Tang, Zhejiang Hosp, Hangzhou, Zhejiang Province, China

113 Platelet and Monocyte Activity in Carotid Artery Stenosis Treated with Carotid Endarterectomy
Arvind Reddy Devanabanda, Caron Rockman, Nicole Allen, Maya Rubin, Binita Shah, Mark Adelman, Jeffrey Berger, New York Univ, New York, NY
This research has received full or partial funding support from the American Heart Association.

115 Is Routine Patching Necessary Following Carotid Endarterectomy (CEA)?
Nicholas J Gargiulo III, The Brookdale Univ Hosp and Medical Ctr, Old Bethpage, NY

116 Revascularization but Not Supervised Exercise Therapy Prevents Progression of Fibrosis in the Gastrocnemius of Patients With Peripheral Artery Disease While Improving Limb Function
Duy Ha, George Casale, Alicia Luis, Kevin Harkins, Reagan Huber, Tamayee Chensalasetty, Ruby Hickman, Mina Hanna, Stanley Swanson, Holly DeSpiegelaere, Iraklis Pipinos, Univ of Nebraska Medical Ctr, Omaha, NE

117 Development of a Hybrid Cryogel-coated Prosthetic Vascular Graft for Delivery of Targeted Gene Therapies
Cindy Huynh, Beth Israel Deaconess Medical Ctr, Harvard Medical Sch, Boston, MA; Ting-Yu Shih, Harvard Univ, Cambridge, MA; Amruta Samant, Beth Israel Deaconess Medical Ctr, Harvard Medical Sch, Boston, MA; Sall G Pathan, David W Nelson, BioSurfaces, Inc., Ashland, MA; David J Mooney, Harvard Univ, Cambridge, MA; Leena Pradhan-Nabzdyk, Frank W LoGerfo, Beth Israel Deaconess Medical Ctr, Harvard Medical Sch, Boston, MA

119 Impaired Cardiac Sestrin2 Signaling in Response to Ischemic Insults with Aging
Nanhu Quan, Wangqing Sun, Lin Wang, Dongyang Chu, Xu Chen, Courtney A Cates, Ji Li, Univ of Mississippi Medical Ctr, Jackson, MS
This research has received full or partial funding support from the American Heart Association.

120 Prevalence and Impact of Patent Foramen Ovale in Patients with Obstructive Sleep Apnea
Phillip Camp, Abinash Achrekar, Umar Malik, Warren Laskey, Univ of New Mexico, Albuquerque, NM

121 Effects of Tethering Branches on Limb Flexion-induced Deformations of the Human Femoropopliteal Artery
William Poulsen, Alexey Kamenskiy, Paul Deegan, Carol Lommel, Jason MacTaggart, Univ of Nebraska Medical Ctr, Omaha, NE
122 Use of Machine Learning to Accurately Predict Adverse Events in Patients With Peripheral Artery Disease Using Electronic Health Record Data

Elsie G Ross, Nicholas Leeper, Nigam Shah, Stanford Univ, Stanford, CA

123 P53 Silenced Human Cd34+ Cells Show Increased Survival and Maturity in High Glucose and Better Collateral Vessel Formation Property Than Wild Type Cells
Nabanita Kundu, Cleyton Domingues, Sabayasachi Sen, George Washington Univ, Washington, DC

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

124 Association Between Low Bone Mineral Density and Risk of Peripheral Vascular Disease: A Systematic Review and Meta-analysis
Sikarin Upala, Anawin Sanguankeo, Bassett Medical Ctr, Cooperstown, NY

125 Vitamin D3-Induced Arterial Calcification Decreases Functional Recovery and Limb Perfusion in a Murine Model of Hindlimb Ischemia
Mengxue Zhang, Bowen Wang, Craig Kent, Lian-Wang Guo, Univ of Wisconsin-Madison, Madison, WI

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

127 Induction of miR-21 Increases Fibrous Cap Stability in Vulnerable Atherosclerotic Lesions
Hong Jin, Yuhuang Li, Alexandra Bäcklund, Albert Busch, Suzanne M Eken, Ekaterina Chernogubova, Peter Gustafsson, Ljubica Perisic, Karolinska Inst, Solna, Sweden; Isabel Schelling, Uve Raaz, Georg-August-Univ Göttingen, Göttingen, Germany; Philip S Tsao, Stanford Univ, Palo Alto, CA; Göran K Hansson, Gabrielle Paulsson-Berne, Ulf Hedin, Lars Maegdefessel, Karolinska Inst, Solna, Sweden

128 Risk Factors for Hospital-associated Venous Thromboembolism in Critically-ill Children with Cardiac Disease Undergoing Cardiothoracic Surgery or Cardiac Catheter-based Therapeutic Intervention
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129 Overexpression of P110alpha Induces Vascular Malformation in Mouse Tail, Feet and Ears
Vladimir R. Babaev, Jeremy A. Brooksbank, Lei Ding, Youmin Zhang, James M. May, MacRae F. Linton, Vanderbilt Univ, Nashville, TN

130 IL-6 Mediates Vein Wall Response to Thrombosis in a Model Dependent Manner
Andrea T Obi, Andrew Kimball, Megan Elfline, Catherine Luke, Jose Diaz, Thomas W Wakefield, Peter K Henke, Univ of Michigan, Ann Arbor, MI

131 Methods Behind Thrombus Size Variability in Murine IVC Ligation Model Revealed: Insights From MRI
Olivia R Palmer, Jose A Diaz, Joan M Greve, Univ of Michigan, Ann Arbor, MI

132 Biomarkers of Cardiovascular Toxicity Following Benzene Exposure
Wesley Abplanalp, Natasha DeJamett, Daniel Riggs, Xiaoping Li, Daniel Conklin, Zhengzhi Xie, Sanjay Srivastava, Aruni Bhathagar, Timothy O'Toole, Univ of Louisville, Louisville, KY

133 Mechanistic Insights Into Bradykinin and Thromboxane Receptors Heterodimerization in Vascular Smooth Muscle Cells
Oula K Dagher, Miran A Jaffa, Aïda Habib, Faud N Ziyyadeh, American Univ of Beirut, Beirut, Lebanon; Louis M Luttrell, Medical Univ of South Carolina, Charleston, SC; Ayad A Jaffa, American Univ of Beirut, Beirut, Lebanon

134 Hypoxia in Coronary Plaque Enhance Thrombogenic Potential of Activated Macrophages
Kazunari Maekawa, Atsushi Yamashita, Eriko Nakamura, Yujiro Asada, Univ of Miyazaki, Miyazaki, Japan

135 Endothelial Dysfunction in Acute Graft-versus-host Disease After Allogeneic Hematopoietic Cell Transplantation. In vitro Evidence of the Protective Effect of Defibrotide
Enrique Mir, Marta Palomo, Enric Carreras, Josep Carreras Leukaemia Res Inst, Barcelona, Spain; Maribel Diaz-Ricart, Inst d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Hosp Clinic, Univ de Barcelona, Barcelona, Spain; Montse Rovira, Hosp Clinic de Barcelona, Barcelona, Spain; Ginés Escolar, Inst d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Hosp Clinic, Univ de Barcelona, Barcelona, Spain

136 Apoptosis of Smooth Muscle Cells Induced by Lipids Isolated from Carotid Plaques
Gayatri Raghuraman, Mary C Zuniga, Brittanie D Baughman, VA Palo Alto Health Care System, Palo Alto, CA; Lixin Wang, Fudan Univ, Shanghai, China; Wei Zhou, VA Palo Alto Health Care System, Palo Alto, CA

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137 Thromboinflammatory Response in Patients Undergoing Transcatheter Aortic Valve Replacement Using the Sapien Xr or CoreValve

Travis R Sexton, John Liu, Susan S Smyth, Univ of Kentucky, Lexington, KY

140 Magnesium Lithospermate B Inhibits Blood Coagulation and Platelet Aggregation: Novel Mechanism of a Traditional Drug for Cardiovascular Diseases

Yiming Wang, Dan Zhang, Xiaohong Xu, Xi Lei, St. Michael’s Hosp, Toronto, ON, Canada; Yiping Wang, Lijiang Xuan, Jian Ding, Shanghai Inst of Materia Medica, Chinese Acad of Science, Shanghai, China; Heyu Ni, St. Michael’s Hosp; Univ of Toronto; Canadian Blood Services, Toronto, ON, Canada

141 Anti-thrombin Perfluorocarbon Nanoparticles Decrease Clot Burden in a Murine Model of Venous Thrombosis

Chandu Vemuri, Batool Arif, Susannah A Grathwohl, John S Allen, Washington Univ in St. Louis, St. Louis, MO; Peter K Henke, Washington Univ in St. Louis, St. Louis, MI; Samuel A Wickline, Washington Univ in St. Louis, St. Louis, MO

142 Characterizing the Mechanisms of Factor VIII Binding to Low-density Lipoprotein Receptor-related Protein 1

Patricia Young, Univ of Maryland Baltimore, Baltimore, MD

143 Enrichment of Dimethylation of Lysine 4 on Histone 3 and Resident Vascular Stem Cell Transition to Vascular Smooth Muscle Cells

Roya Hakimjavidi, Denise Burtenshaw, Emma Fitzpatrick, Mariana Di Luca, Gillian Casey, Dublin City Univ, Dublin, Ireland; Eileen M Redmond, Univ Rochester Med Ctr, Rochester, NY; Paul A Cahill, Dublin City Univ, Dublin, Ireland

144 A Single Nucleotide Polymorphism of p21Kip1 Associated with Vein Graft Patency Regulates Expression of p21Kip1 in Both Venous Adventitial Cells and Smooth Muscle Cells but Selectively Regulates Proliferation of Adventitial Cells

Richard D Kenagy, Univ of Washington, Seattle, WA; Shinshuke Kikuchi, Asahikawa Medical Univ, Asahikawa, Japan; Lihua Chen, Univ of Washington, Seattle, WA; Errol S Wijelath, VA Puget Sound Health Care System and Univ of Washington, Seattle, WA; Alexander W. Clowes, Univ of Washington, Seattle, WA; Michael Sobel, VA Puget Sound Health Care System and Univ of Washington, Seattle, WA

145 Microcapsule Delivery of Mesenchymal Stem Cell for Myocardial Regeneration

Anita Saraf, Emory Univ, Atlanta, GA; Devon Headen, Allen Liu, Georgia Inst of Technology, Atlanta, GA; Daiana Weiss, Milton Brown, Gigi Joseph, Michael Davis, Emory Univ, Atlanta, GA; Andrés J. García, Georgia Inst of Technology, Atlanta, GA; W R Taylor, Emory Univ, Atlanta, GA

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

146 Nitric Oxide Favors Sca-1+ Vascular Progenitor Cell Differentiation Toward Endothelial Cells

Adam J Schuld, Rommel C Morales, Zheng Wang, Vera P Shively, Melina R Kibbe, Northwestern Univ, Chicago, IL

147 Elevated Serum Resistin Levels are Associated with Angiographically Significant Coronary Artery Disease: A Meta-analysis.

Pradyumna Agasthi, Morehouse Sch of Med, Atlanta, GA; Sivakanth Aloor, Univ of Miami, Miller Sch of Med, Miami, FL; Srinadh Annangi, Kalaivani Sivakumar, Tirumala Rao Dammalapati, Rajesh Sachdeva, Morehouse Sch of Med, Atlanta, GA

148 Blockade of the Serotonin 2B Receptor Prevents Pulmonary Vascular stiffening and Remodeling in a Mousse Model of Familial Pulmonary Arterial Hypertension

Nathaniel Bloodworth, Erica Carrier, James West, W. David Merryman, Vanderbilt Univ, Nashville, TN

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

149 Analysis of Radiotherapy Induced Vascular Lesions Reveals Potential Therapies Against Innate Inflammation in an ApoE Knockout Mouse Model

Tina Chriestsdottir, John Pirault, Anna M Lundberg, Zhong-Qun Yan, Gabrielle Paulsson-Berne, Göran K Hansson, Martin Halle, Karolinska Inst, Stockholm, Sweden

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

Paul C Dimayuga, Xiaoning Zhao, Kuang-Yuh Chyu, Juliana Yang, Wai Man Lio, Jianchang Zhou, Bojan Cercek, Prediman K Shah, Cedars-Sinai Medical Ctr, Los Angeles, CA

151 miR-29b and miR-146b Mediate the Chronic Inflammatory Response in Radiotherapy-induced Vascular Disease

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152 Mitochondrial Fission Inhibitor Mdivi-1 Attenuates Angiotensin II-Induced Cardiovascular Remodeling

Steven J Forrester, Tatsuo Kawai, Katherine J Elliott, Kunie Eguchi, Victor Rizzo, Satoru Eguchi, Temple Univ, Philadelphia, PA

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

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

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Ling Guo, Univ of Kentucky, Lexington, KY; Sepsis
of Neutrophil Transmigration
TLT-1 Controls Inflammatory Hemorrhage by the Modulation
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Melissa C Kander, Yuqi Cui, Zhenguo Liu, The Ohio State Univ Wexner Medical Ctr, Columbus, OH
Deletion of the Lympocyte Adaptor Protein LNK Promotes Aortic Dissection
Fanny Laroumanie, Mohamed Ahmed Saleh, Vanderbilt Univ Medical Ctr, Nashville, TN; William McMaster, Vanderbilt Hosp, Nashville, TN; Annet Kirabo, Meenakshi Delopopysaccharide Selectively Decreases Circulating Endothelial Progenitor Cells in Female Mice via Superoxide Production
Melissa C Kander, Yuqi Cui, Zhenguo Liu, The Ohio State Univ Wexner Medical Ctr, Columbus, OH
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Alternative Splicing of PLD1 and Its Role in Modulating Inflammatory Phenotypes in Primary Human Macrophages
Jennie Lin, Benjamin Cieply, Hanrui Zhang, Yoseph Barash, Mark Gerelas, Univ of Pennsylvania, Philadelphia, PA; Muredach P. Reilly, Columbia Univ, New York, NY; Daniel J. Rader, Kiran Musunuru, Univ of Pennsylvania, Philadelphia, PA
TLT-1 Controls Inflammatory Hemorrhage by the Modulation of Neutrophil Transmigration
Jessica Morales, Univ of Puerto Rico, San Juan, PR; Fiorella Reyes, Octavio Santiago, Univ Central del Caribe, Bayamon, PR; Camila Trinidad, Medical Sciences Campus, San Juan, PR; Marlene Kelly, Univ of Puerto Rico, Mayaguez, PR; Anthony V Washington, Univ of Puerto Rico, San Juan, PR
Synthetic High Density Lipoprotein - a Potential Therapy for Sepsis
Ling Guo, Univ of Kentucky, Lexington, KY; Emily E Morin, Univ of Michigan, Ann Arbor, MI; Yaxia Yuan, Univ of Kentucky, Ann Arbor, MI; Chang-Guo Zhan, Ming-Cui Gong, Zhenyu Li, Univ of Kentucky, Lexington, KY; Theodore J Standiford, Anna Schwendeman, Univ of Michigan, Ann Arbor, MI; Xiang-An Li, Univ of Kentucky, Lexington, KY
This research has received full or partial funding support from the American Heart Association.
Neutrophil Granulocytes and the Neutrophil-monocyte Interaction in the Development of Angiotsensin II Induced Vascular Dysfunction
Rebecca Schuler, Susanne Karbach, Stefanie Finger, Michael Moiltor, Sabine Kossmann, Ari Waisman, Thomas Munzel, Philip Wenzel, Univ Medical Ctr Mainz, Mainz, Germany
Resverlogix Corp, Calgary, AB, Canada; Jan Johansson, Mike Sweeney, Resverlogix Corp, San Francisco, CA; Norman C Wong, Health Science Ctr., Calgary, AB, Canada
Endothelial Gab1 Limits Vascular Remodeling and Atherosclerosis Through Inhibition of Endothelial Inflammation
Suowen Xu, Meimei Yin, Jingjing Zhao, Marina Koroleva, Zheng Gen Jin, Univ of Rochester, Rochester, NY
This research has received full or partial funding support from the American Heart Association.
Amp-activated Protein Kinase (ampk) α1 in Macrophages Promotes Collateral Remodeling and Arteriogenesis in Mice
Huaiping Zhu, GSU, Atlanta, GA
Doxycycline Inhibits Revascularization After Hindlimb Ischemia
Galit Ankr- Eliaho, George Fu, Richard Kenagy, Timothy Cox, Gale L Tang, Univ of Washington, Seattle, Seattle, WA
This research has received full or partial funding support from the American Heart Association.
YAP and TAZ Mediate Mechanical Control of Vasculogenesis
Devon E Mason, Univ of Notre Dame, Notre Dame, IN; Sherry L Voytik-Harbin, Purdue Univ, West Lafayette, IN; Mervin C Yoder, Indiana Univ, Indianapolis, IN; Joel D Boerckel, Univ of Notre Dame, Notre Dame, IN
Hypertension Down Regulates Emilin1 in the Extracellular Matrix of Resistance Arteries in Humans and Mice, in Order to Increase the Myogenic Tone Through Overactive TGFβ, Thus Contributing to Blood Pressure Regulation
Daniela Carnevale, Sapienza Univ of Rome and IRCCS Neuromed, Pozzilli (IS), Italy; Marialuisa Ferrotta, Stefania Fardella, Manuel Casaburo, IRCCS Neuromed, Pozzilli (IS), Italy; Dario Bizzotto, Padova Univ, Padova, Italy; Giulio Selvetella, Gualtero Innocenzi, IRCCS Neuromed, Pozzilli (IS), Italy; Giorgio Bressan, Padova Univ, Pozzilli (IS), Italy; Giuseppe Lembo, Sapienza Univ of Rome and IRCCS Neuromed, Pozzilli (IS), Italy
Development of a Novel Protein Nanobody Detection System for Serum Soluble Lectin-like Oxidised Low Density Lipoprotein Receptor-1
Gale L Tang, Univ of Washington, Seattle, Seattle, WA
This research has received full or partial funding support from the American Heart Association.
Resident Aortic Intimal Mononuclear Phagocytes (MNPs) in the Promotion of Atherosclerosis
Jesse W Williams, Ki-Wook Kim, Stoyan Ivanov, Washington Univ in St. Louis, Saint Louis, MO; Slava Epelman, Univ of Toronto, Toronto, ON; Kory Lavine, Bernd H Zinselmeyer, Gwendalyn J Randolph, Washington Univ in St. Louis, Saint Louis, MO
Apabetalone (RVX-208) Has Anti-atherosclerotic, Anti-Thrombotic and Anti-Inflammatory Effects in Patients With Cardiovascular Disease (CVD)
Ewelina Kulikowski, Sylwia Wasiak, Dean Gilham, Cyrus Calosing, Laura Tsujikawa, Christopher Halliday, Resverlogix Corp, Calgary, AB, Canada; Jan Johansson, Mike Sweeney, Resverlogix Corp, San Francisco, CA; Norman C Wong, Health Science Ctr., Calgary, AB, Canada
This research has received full or partial funding support from the American Heart Association.
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This research has received full or partial funding support from the American Heart Association.
Jonathan De Siqueira, Caroline Seiler, David A Russell, Darren Tomlinson, Shervanthi Homer-Vanniasinkam, Sreenivasan Ponnambalam, Univ of Leeds, Leeds, United Kingdom

171
Urea Cycle Intermediates and Nitric Oxide Synthase Metabolites Decrease Whilst Asymmetric Dimethylarginine Remained Unchanged Following Cardiac Surgery
John Garlick, Amy Wilson-O’Brien, Konstantinos A Kournomenos, Univ of Melbourne, Fitzroy, Australia; Nicholas Williamson, Univ of Melbourne, Parkville, Australia; Andrew Wilson, Univ of Melbourne, Fitzroy, Australia

172
Arteriovenous Fistula Adaptation Requires Caveolin1 Signaling
Takuya Hashimoto, Trenton R Foster, Hualong Bai, Haidi Hu, Jeans M Santana, Jesse Hanisch, Alan Dardik, Yale Sch of Med, New Haven, CT

173
Proprotein Convertase Subtilisin/Kexin Type 6 is a Key Protease in the Control of Smooth Muscle Cell Function in Vascular Disease
Ulf Hedlin, Lubjica Perisic, Urszula Rykaczewska, Anton Razuvaev, Mariette Lengquist, Maria Sabater-Lleal, Ida Erikssoon, Samuel Rühl, Malin Kronqvist, Chi-Nan Tseng, Patricia Rodriguez, Karolinska Inst, Stockholm, Sweden; Lasse Folke Hansen, Technical Univ of Denmark, Kongens Lyngby, Denmark; Lei Du, Maria Gonzalez Diez, Cecilia Osterholm, Joy Roy, Jaakko Patrakka, Gabrielle Paulsson-Berne, Göran Hansson, Jacob Odeberg, Anders Hamsten, Per Erikskson, Karolinska Inst, Stockholm, Sweden

174
Periarteriolar or Intraluminal Delivery of Simvastatin Attenuates Intimal Hyperplasia After Arterial Injury
Alex Helkin, David Bruch, SUNY Upstate Medical Ctr and Dept of Veterans Affairs Healthcare Network Upstate New York at Syracuse, Syracuse, NY; David R Wilson, Rebecca Bader, Syracuse Univ, Syracuse, NY; Kristopher O Maier, SUNY Upstate Medical Ctr and Dept of Veterans Affairs Healthcare Network Upstate New York at Syracuse, Syracuse, NY; Vivian Gahtan, SUNY Upstate Medical Ctr, Dept of Veterans Affairs Healthcare Network Upstate New York at Syracuse, and Syracuse Biomanufacturing Inst, Syracuse, NY

175
High Glucose Pre-treatment Suppresses Rankl-induced Macrophage Activation via Down-regulation of Glucose Uptake Through Decreased Insulin Receptor and Insulin Receptor Substrate 1 Expression
Chitaru Kurihara, Teruyoshi Tanaka, Dai Yamanouchi, Univ of Wisconsin, Madison, WI

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

176
O-GlcNAc Transferase Promotes Vascular Smooth Muscle Cell De-differentiation
Kristen Leslie, Yi Xie, Allison Ostriker, Kathleen Martin, Yale Univ, New Haven, CT

177
Adenosine Receptor 2A-mediated Endothelial Glycolysis Critically Contributes to Pathological Angiogenesis of Retina
Zhiping Liu, Siyuan Yan, Jiaojiao Wang, Yong Wang, Yiming Xu, Qiuhua Yang, Augusta Univ, Augusta, GA; Qinbai Li, Mei Hong, Peking Univ Shenzhen Graduate Sch, Shenzhen, China; Yuqing Huo, Augusta Univ, Augusta, GA

178
Angiogenesis is Triggered by Nutrient Deprivation via Gcn2/atif4-dependent Regulation of Vegf and H2s Production
Alban Longchamp, Harvard Sch of Public Health, Boston, MA; Teodelinda Mirabella, Boston Univ, Boston, MA; Christopher Hine, Lear E. Brace, Nelson Knudsen, J. Humberto Treviño-Villarreal, Pedro Mejia, Harvard Sch of Public Health, Boston, MA; Ming Tao, Gaurav Sharma, Brigham and Women s Hospital, Boston, MA; Rui Wang, Laurentian Univ, Sudbury, ON, Canada; Jean-Marc Corpatiaux, Ctr Hospier Univire Vaudos, Lausanne, Switzerland; Jacques-Antoine Haefliger, Ctr Hospier Univire Vauois, lausanne, Switzerland; Kyo Han Ahn, Ctr for Electro-Photo Behaviors in Advanced Molecular Systems, Nam-Gu, Korea, Republic of; Chih-Hao Lee, Harvard Sch of Public Health, Boston, MA; Christopher Chen, Boston Univ, Boston, MA; Charles Keith Ozaki, Brigham and Women s hospital, Boston, MA; James R. Mitchell, Harvard Sch of Public Health, Boston, MA

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

179
P2X7R Antagonism Alleviates Traction Injury Induced Extracellular ATP Release in Vascular Tissues
Weifeng Luo, Olukemi J McWilliam, Colleen Brophy, Joyce Cheung-Flyn, Vanderbilt Univ Medical Ctr, Nashville, TN

180
The Myristolated Alanine-Rich C Kinase Substrate (MARCKS) Differentially Regulates Proliferation of Vascular Smooth Muscle Cells and Endothelial Cells through Affecting Protein Stability and Proteolytic Processing of the Kinase Interacting with Slathmin (KIS)
Dan Yu, Baltimore VA Medical Ctr, Baltimore, MD; Charles Drucker, University of Maryland Sch of Med, Baltimore, MD; Rajabrata Sarkar, Dudley K. Strickland, Univ of Maryland Sch of Med, Baltimore, MD; Thomas S Monahan, Baltimore VA Medical Ctr, Baltimore, MD

181
Asc3 Cross-talk with Phb1 and Sgk1 in Mitochondrial Homeostasis
Adaugo Ohandoj, Thomas P Callier IV, Sharon C Francis, Winston E. Thompson, Morehouse Sch of Med, Atlanta, GA; Lin Chang, Univ of Michigan, Ann Arbor, MI; Minerva T. Garcia-Barrio, Morehouse Sch of Med, Atlanta, GA

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182
Inhibitor of differentiation (Id)3 Regulation of the Vasculature in Adipose Tissue
Victoria Osinski, Univ of Virginia, Charlottesville, VA; Jennifer Kirby, Univ of Virginia Health System, Charlottesville, VA; Swapnil Sonkusare, Mete Civelek, Coleen McNamara, Univ of Virginia, Charlottesville, VA
183
Collagen Type V (Col V) Contributes to the Development of Aortic Dissections and Aneurysms
Noel M Phan, Arick Park, Ting Zhou, David Scott, Qiwei Wang, Paul Tang, Daniel S. Greenspan, Bo Liu, Univ of Wisconsin-Madison, Madison, WI
This research has received full or partial funding support from the American Heart Association.

184
Polo Like Kinase 1 Regulates Smooth Muscle Cell Proliferation in the G2-M Phase in Human Coronary Artery Bypass Conduits
Swastika Sur, Creighton Univ Sch Med, Omaha, NE

185
Androgen Deficiency-induced Hyperplasia Development is Attenuated by Physiological Testosterone Replacement Independent of Metabolite Dihydrotestosterone
Junior Univers, Brian M Freeman, Deidra J Mountain, Stacy S Kirkpatrick, Joshua D Arnold, Mitchell H Goldman, Frederick A Klein, Michael M McNally, Scott L Stevens, Paul D Terry, Michael B Freeman, Oscar H Grandas, UT Graduate Sch of Med, Knoxville, TN

186
Hdac7-derived 7aa Peptide May Function as a Phosphorylation Carrier
Junyao Yang, King’s Coll London, London, United Kingdom; Wen Wang, Queen Mary, Univ of London, London, United Kingdom; Qian Wang, Southern Medical Univ, Guangzhou, China; Lingfang Zeng, King’s Coll London, London, United Kingdom

187
Mirna-27b Contributes to Vascular Smooth Muscle Cell Phenotypic Switch
Junming Yue, The Univ of Tennessee Health Science Ctr, Memphis, TN
This research has received full or partial funding support from the American Heart Association.

188
FX2 X2
Ning Zhou, Shaunnick Stoll, Hongyu Qiu, Loma Linda Univ, Loma Linda, CA

189
Increased Atherosclerosis And Plasma Lipids In Apoe-pon1 Dko Mice As Compared To Ldlr-pon1 Dko Mice.
Chandrakala Aluganti Narasimhulu, Kathryn Young Burge, Krithika Selvarajan, Sampath Parthasarathy, The Univ of Central Florida, Orlando, FL

190
The Effect of Particle Size on Apolipoprotein A-I Exchange in Reconstituted and Human-derived High Density Lipoprotein Particles
Mark S Borja, Lorena G Ortega-Guerrero, Michael N Oda, Children’s Hosp Oakland Res Inst, Oakland, CA
This research has received full or partial funding support from the American Heart Association.

191
Microparticles Released from Various Cell lines are ABCA1 Dependent
Anouar Hafiane, McGill Univ, Res Inst of the McGill Univ Health Ctr, Montreal, QC, Canada; Jan O Johansson, Artery Therapeutic Inc, California, CA; Jacques Genest, McGill Univ, Res Inst of the McGill Univ Health Ctr, Montreal, QC, Canada

192
Characterization of Microsomal Triglyceride Transfer Protein Missense Mutations Found in Abetalipoproteinemia and Hybetalipoproteinemia Subjects
Meghan T Walsh, SUNY Downstate Medical Ctr, Brooklyn, NY; Enza Di Leo, Univ of Modena and Reggio Emilia, Modena, Italy; Patrizia Tarugi, Univ di Modena e Reggio Emilia, Modena, Italy; M. Mahmood Hussain, SUNY Downstate Medical Ctr, Brooklyn, NY
This research has received full or partial funding support from the American Heart Association.

193
HDL-Small RNA Intercellular Communication in Systemic Lupus Erythematosus
Danielle L Michell, Jared L Moore, Michelle J Ormseth, Stuart R Landstreet, Shilin Zhao, Quanhu Sheng, Ashley Wilhelm, C. Michael Stein, Amy Major, Kasey C Vickers, Vanderbilt Univ, Nashville, TN
This research has received full or partial funding support from the American Heart Association.

194
Discordance in Apolipoprotein B vs. non-HDL-C and the Cholesterol-Enriched Phenotype: Insights From the National Health and Nutrition Examination Survey (NHANES) 2011-2012
Renato Quispe, Johns Hopkins Ciccarone Ctr for the Prevention of Heart Disease, Baltimore, MD; Mariana Lazo, Johns Hopkins Bloomberg Sch of Public Health, Baltimore, MD; Allan Sniderman, McGill Univ Health Ctr, Quebec, MD, Canada; Erin D. Michos, Johns Hopkins Ciccarone Ctr for the Prevention of Heart Disease, Baltimore, MD; Peter P. Toth, Univ of Illinois Coll of Med, Chicago, IL; Krishnaji D. Kulkarni, Atherotech Diagnostics Lab, Birmingham, AL; Steven R. Jones, Seth S. Martin, Johns Hopkins Ciccarone Ctr for the Prevention of Heart Disease, Baltimore, MD

195
Effects of Vertical Sleeve Gastrectomy on HDL Function in Adolescents with Severe Obesity
Amy S Shah, Thomas Inge, Hannah Sexsmith, Anna Heink, Cincinnati Children's Hosp Medical Ctr, Cincinnati, OH; W Sean Davidson, Univ of Cincinnati, Cincinnati, OH

196
Impact of Cholesteryl Ester Transfer Protein Inhibition With TA-8995 on High Density Lipoprotein Function
Sudichhya Shrestha, Univ of New South Wales, Kensington, Australia; Wendy Jessup, Concord Repatriation General Hosp, Sydney, Australia; Fathia Tabet, Philip J Barter, Kerry-Anne Rye, Univ of New South Wales, Kensington, Australia

197
A Novel Association Between High Density Lipoprotein Levels and the Risk of Postoperative Acute Kidney Injury

Loren E Smith, Derek K Smith, MacRae F Linton, Frederic T Billings IV, Vanderbilt Univ Medical Ctr, Nashville, TN

198
HDL Function and Genetic Regulation in a Nonhuman Primate Model of HDL Cholesterol Extremes
Irene Predazzi, Nathalie Pamir, Deanna Plubell, Oregon Health and Science Univ, Portland, OR; John Letaw, Oregon Health and Science Univ, Beaverton, OR; Joanne Curran, Texas Biomedical Res Inst, San Antonio, TX; Michael Raboin, Jordyn Clarke, Lauren Hales Beck, Oregon Health and Science Univ, Beaverton, OR; Hagai Tavori, Sergio Fazio, Oregon Health and Science Univ, Portland, OR; Amanda Vinson, Oregon Health and Science Univ, Beaverton, OR

199
The Regulation of Intestinal apoC-III by Dietary Fat: Key Differences From Hepatic apoC-III Regulation and Implications for Lipoprotein Synthesis and Secretion
Gabrielle West, Cayla Rodia, Diana Li, Javed Jattan, Alison B. Kohan, Univ of Connecticut, Storrs, CT

200
Impact of Newly Generated Pre-β HDL Enriched With Apolipoprotein A-II on VLDL Lipolysis
Anna Wolska, Natl Insts of Health, Bethesda, MD; Andrzej Szutowicz, Medical Univ of Gdansk, Gdansk, Poland; Alan T. Remaley, Natl Insts of Health, Bethesda, MD

201
Maternal HDL-Cholesterol Levels in Women From the Gambia are Directly Related to Infant Birthweight
Sandra L. Rebholz, John T. Melchior, Jeff Welge, Univ of Cincinnati, Cincinnati, OH; Andrew M. Prentice, MRC Unit, Keneba, Gambia; Sophie E. Moore, MRC Human Nutrition Res, Cambridge, United Kingdom; Sean Davidson, Laura A. Woollett, Univ of Cincinnati, Cincinnati, OH

202
MiR-1200 Differentially Modulates Plasma LDL and HDL-cholesterol Levels to Reduce Hyperlipidemia and Atherosclerosis in Mice
Liye Zhou, Sara Irani, Mahmood Hussain, SUNY Downstate Medical Ctr, Brooklyn, NY

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

203
Regulation of Lipid Phosphate Phosphatase 3 in Cardiac Ischemia/Reperfusion Injury and Hypertrophy
Mini Chandra, Jonathan Fox, Wayne Orr, Christopher Kevil, Sumitra Miriyala, Manikandan Panchatcharam, LSHUHC, Shreveport, LA

205
Impact of PLPP3 Gene Deficiency on Lipid Metabolism and Signaling
Suchismita Halder, Univ of Kentucky, Lexington, KY

206
Randomized Double Blind Clinical Trial on the Effect of Oral Alpha-cyclodextrin on Serum Lipids
Marcelo Amar, Maryann Kaler, Vida B Mokhtari, Robert D. Shamburek, Maureen Sampson, Stewart J Levine, Alan T Remaley, Natl Insts of Health / NHLBI, Bethesda, MD

207
Wound Application of Nitrite Enhances Healing in Diabetic Mice
Ankur Aggarwal, Michael C Madigan, VA Pittsburgh Healthcare System and Univ of Pittsburgh, Pittsburgh, PA; Ellen Cody, Univ of Pittsburgh, Pittsburgh, PA; Edith Tzeng, VA Pittsburgh Healthcare System and Univ of Pittsburgh, Pittsburgh, PA

208
Effects of Gender and BMI on Comorbidities in Patients With Non Hemorrhagic Stroke
Michael Ashamalla, Justin Pieper, Daniel Sedhom, Neil Yager, Mikhail Torsos, Albany Medical Ctr, Albany, NY

209
Human Umbilical Vein Endothelial Cell Conditioned Medium in the Presence of High Glucose Increases in vitro Adipose-derived Stem Cells Proliferation and in vivo Vascularization
Spencer Brown, Francis Caputo, Marc Broner, Ping Zhang, Shaohoa Chang, Ashleigh Hagaman, Kiavash Koko, Ryan Nolan, Jeffrey Carpenter, Cooper Univ Hosp, Camden, NJ

210
Liver Expression of Proinflammatory Cytokines in Adiponectin Deficient Mice
Arshi Jha, Esther Yu, Jayabala Pamidimukkala, Touro Univ Nevada, Henderson, NV

211
Long-Term Mortality in Diabetic Patients with Non-Obstructive Coronary Disease Undergoing Coronary Angiography/Cardiac Catheterization
Wendy Bottin, Raveen Chawla, Kalpesh Patel, Jeremy S Turlington, Virginia Commonwealth Univ/McGuire VAMC, Richmond, VA; Peter Danyi, Salem VAMC, Salem, VA; Ion S Jovin, Virginia Commonwealth Univ/McGuire VAMC, Richmond, VA

212
Epigenetically Altered TLR4 Expression May Contribute to Increased Inflammation and Impaired Wound Healing in a Murine Model of Diabetes
Andrew Kimball, Amrita Joshi, Matthew Schaller, Beau Carson, Kanakadurga Singer, Jennifer Bermick, Shreyas Ramani, Peter Henke, Steven Kunkel, Katherine Gallagher, Univ of Michigan, Ann Arbor, MI

213
Differential Effects of Nanoformulated Copper/zinc Superoxide Dismutase in Regulating Fasting Blood Glucose Levels in Mice Fed a Low versus High Fat Diet
Gopalakrishnan Natarajan, Curtis Perriotte-olson, UNMC, Omaha, NE; Devika Manickam, Alexander Kabanov, Univ of North Carolina at Chapel Hill, Chapel Hill, NC; Crys Desouza, Saraswathi Viswanathan, UNMC, Omaha, NE

214
Arterial Stiffness in Patients with Metabolic Syndrome: a Cross-Sectional Study in Guayaquil, Ecuador
Carlos A Peñaherrera, Luis Vernaza Hosp, Guayaquil, Ecuador; Ruben E Peñaherrera, Univ de Especialidades Espíritu Santo, Samborondón, Ecuador; Maria C Duarte, Ernesto Peñaherrera, Luis Vernaza Hosp, Guayaquil, Ecuador
Fenugreek Seeds Inhibit Hepatic VLDL Overproduction by Attenuating Metabolic Inflammatory Stress

Jing Shen, Kaichao Pan, Univ of Nebraska-Lincoln, Lincoln, NE; Dipak Santa, Univ of Nebraska-Lincoln, Scottsbluff, NE; Qiaozhu Su, Univ of Nebraska-Lincoln, Lincoln, NE

Endothelial Fc gamma Receptor IIB Activation Blunts Insulin Transport to Skeletal Muscle to Cause Insulin Resistance in Mice

Keiji Tanigaki. UT Southwestern Medical Ctr, Dallas, TX

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

Vascular PTH1R Signaling Limits Aortic Collagen Deposition in Diabetic LDLR/-/- Mice

Su-Li Cheng, Abraham Behrmann, Megan Mead, Bindu Ramachandran, UT Southwestern Medical Ctr, Dallas, TX; Kapil Kapoor, Ranjan Perera, Sanford Burnham Prebys Medical Discovery Inst, Orlando, FL; Henry Kronenberg, Massachusetts General Hosp, Boston, MA; Dwight A Towler, UT Southwestern Medical Ctr, Dallas, TX

Regulation of Dimethylamine Dimethylaminohydrolase in the Liver

Amy L Wilson-O’Brien. John Garlick, Andrew M Wilson, The Univ of Melbourne, Fitzroy, Australia

Anti-angiogenic Therapy Rescues the Defect in Ischemia-Induced Neovascularization in Type II Diabetic Mice

Jianbo Wu, Univ of Missouri, Columbia, MO; Lamei Xiao, Yan Yang, Xin Deng, Ningbo Pang, Sichuan Medical Univ, Luzhou, China

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

N-Acetylcysteine Enhances Amputation Stump Healing and Perfusion in Diabetes

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Optimization of Apolipoprotein A-1 Mimetic Peptides for Lipid Binding and Lecithin-cholesterol Acyltransferase Activation

Frances M Acevedo-Mariani, Jukyung Kang, Wenmin Yuan, Irina Pogozheva, Anna Schwendeman, Univ of Michigan, Ann Arbor, MI

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

Biological Clock Strongly Regulates Brown Adipose Tissue Metabolism

Jimmy Berbée. Rosa van den Berg, Sander Kooijman, Ashna Ramkisoensing, Claudia P Coomans, Johanna H Meijer, Nienke R Biermasz, Patrick C Rensen, Leiden Univ Medical Ctr, Leiden, Netherlands

Anti-atherosclerotic Effects of Plaque Macrophage Targetable Nanoparticle-mediated PPAR-γ Agonist Delivery in Atherogenic Mice

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Mechanism of LCAT Activation by Compound A

Lita A Freeman, Stephen J. Demosky Jr., NIH, Bethesda, MD; Monika Konaklieva, Rostislav Kuskovskiy, American Univ, Washington, DC; Scott M. Gordon, Alice F. Ossoli, Boris L. Vaisman, Robert D. Shamburek, Angel Aponte, Marjan Gucek, NIH, Bethesda, MD; John J. Tesmer, Univ of Michigan, Ann Arbor, Ann Arbor, MI; Rodney L. Levine, Alan T. Remaley, NIH, Bethesda, MD

The Role of Fatty Acid Desaturase 1 in Inflammation Initiation and Resolution in Atherosclerosis

Anthony Gromovskey, Rebecca Schugar, Amanda Brown, Amy Burrows, Daniel Ferguson, Cleveland Clinic, Cleveland, OH; Brian Sansbury, Harvard Inst of Med, Boston, MA; Mark Graham, Rosanne Crooke, Richard Lee, Ionis Pharmaceuticals, Carlsbad, CA; Stanley Hazen, Cleveland Clinic, Cleveland, OH; John Parks, Wake Forest Univ Sch of Med, Winston-Salem, NC; Matthew Spite, Harvard Inst of Med, Boston, MA; J. Mark Brown, Cleveland Clinic, Cleveland, OH

A Novel Combinatorial Non-viral Vector to Treat Familial Hypercholesterolaemia

Alastair G Kerr. Lawrence Tam, Milena Cioroch, Ashley Hale, Gillian Douglass, Keith Channon, Richard Wade-Martins, Univ of Oxford, Oxford, United Kingdom

Correlation of in vitro Studies and Human Drug Interaction Studies with Gemcabene

Margaret McShane. Gemphire Therapeutics Inc, Northville, MI; Louis Radulovic, Drug Development Preclinical Services, Ann Arbor, MI; Charles L Bisgaier, Gemphire Therapeutics Inc, Northville, MI

Lipoprotein X Causes Renal Disease in LCAT Deficiency

Edward B Neufeld, NIH, NHLBI, Bethesda, MD; Alice Ossoli, Univ of Milano, Milan, Italy; Seth G Thacker, Boris Vaisman, NIH, NHLBI, Rockville, MD; Milton Pryor, Lita A Freeman, Christine A Brantner, Irina Baranova, Nicolaos O Francone, Stephen J Demosky Jr, NIH, NHLBI, Bethesda, MD; Cecilia Vitali, Univ of Milano, Milan, Italy; Monica
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Silvia Castigliaioni, Alessio Vettore, Lorenzo Arnaboldi, Laura Calabresi, Alberto Corsini, Stefano Bellotta, Univ of Milan, Milan, Italy

239

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

Megan L Brophy, Ashiqur Rahman, Yunzhou Dong, Hao Wu, Boston Children's Hosp, Boston, MA; Kandice L Tessneer, Satish Pasula, Oklahoma Medical Res Fndn, Oklahoma City, OK; Ruby Ley, Univ of Oklahoma Health Sciences Ctr, Oklahoma City, OK; Klaus Ley, La Jolla Inst for Allergy and Immunology, La Jolla, CA; Hong Chen, Boston Children's Hosp, Boston, MA

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240

T Cell Specific CD40L Promotes to Atherosclerosis

Christina Bürger, Holger Winkels, Charlotte Spitz, Svenja Meiler, Sigrid Reim, Christian Weber, Esther Lutgens, Norbert Gerdes, Ludwig Maximilians Univ München, Munich, Germany

241

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

Chang Hyun Byron, Univ of Alabama at Birmingham, Birmingham, AL; Jack Heath, Emory Univ, Atlanta, GA; Xia Mao, Yong Sun, Yabing Chen, Univ of Alabama at Birmingham, Birmingham, AL

242

TRAIL Deficiency Modulates Macrophage Phenotype to Exacerbate Atherosclerosis

Sian P Cartland, Heart Res Inst, Sydney, Australia; Andrew J Murphy, Baker IDI Heart and Diabetes Inst, Melbourne, Australia; Mary M Kavurma, Heart Res Inst, Sydney, Australia

243

Regression of Carotid Intima-media Thickness and Improvement of Lipid Profile by the Addition of High-purity Eicosapentaenoic Acid (Icosapent Ethyl) to Statins in a Morbidly Obese Patient with Type II Diabetes Mellitus

Kota J Reddy, Reddy Cardiac Wellness, Houston, TX; Margarita Tapia, Univ of Oklahoma Health Sciences Ctr, Oklahoma City, OK; Sumita Chowdhury, Amarin Pharma Inc., Bedminster, NJ

244

Myocardial Infarction Accelerates Atherosclerosis in Low Density Lipoprotein Receptor Knockout Mice

Roman Covarrubias, Ashley Wilhelm, Elena Chepurko, Tatiana Novitskaya, Jared L Moore, Jillian P Rhoads, Amy S Major, Richard J Gumin, Vanderbilt Univ, Nashville, TN

245

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

Ye Ding, Georgia State Univ, Atlanta, GA; Miao Zhang, The Univ of Oklahoma Health Science Ctr, Atlanta, GA; Ping Song, Ming-Hui Zou 30303, Georgia State Univ, Atlanta, GA

246

Adiporin, an Adiponectin Receptor Agonist, Inhibits P70s6kinase Signaling in Vascular Smooth Muscle Cells: Implications Toward Suppression of Injury-induced Neointima Formation in Mice

Megan L Brophy, Ashiqur Rahman, Yunzhou Dong, Hao Wu, Boston Children's Hosp, Boston, MA; Kandice L Tessneer, Satish Pasula, Oklahoma Medical Res Fndn, Oklahoma City, OK; Ruby Ley, Univ of Oklahoma Health Sciences Ctr, Oklahoma City, OK; Klaus Ley, La Jolla Inst for Allergy and Immunology, La Jolla, CA; Hong Chen, Boston Children's Hosp, Boston, MA

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This research has received full or partial funding support from the American Heart Association.
Arwa Fairaq, Lakshman Segar, Univ of Georgia, Augusta, GA

247

Novel Migration Assay Using Cultured Internal Pudendal Artery Smooth Muscle Cells: New Methods to Study Vascular Erectile Dysfunction

Jake T. Francisco, Andrew W. Holt, David A. Tulis, Michael Odom, Johanna L. Hannan, East Carolina Univ, Greenville, NC

248

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

Paresa Taghavie-Moghadam, Breanne Gjurich, Jerry Nadler, Elena Galkina, EVMS, Norfolk, VA

249

Increased Vascular CCRL2 Expression by Disturbed Blood Flow Promotes Atherosclerotic Plaque Formation in ApoE Deficient Mice

Shuhong Hu, Li Zhu, Soochow Univ, Suzhou, China

250

Kidney and Liver are the Main Organs of Alanine: Glyoxylate Aminotransferase 2 Expression in Humans

Natalia Jarzebska, Sophia Georgi, Normund Jabs, Silke Brilloff, Technische Univ Dresden, Dresden, Germany; Renke Maas, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany; Roman N. Rodionov, Christian Zietz, Norbert Weiss, Technische Univ Dresden, Dresden, Germany

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

252

Interleukin-27 Signaling Regulates Myeloid Cells Activation in Atherosclerosis

Iulia Peshkova, Alia Fatkhullina, Ekaterina Koltsova, Fox Chase Cancer Ctr, Philadelphia, PA

253

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

Zahra Mazhar, Dhruha Alsaryafi, Tong Wu, Mahdi Garelhabi, Univ of Massachusetts Lowell, Lowell, MA

254

Platelet Derived Growth Factor Receptor Beta Activation Promotes Atheroprotective Changes in Smooth Muscle Cell Phenotype

Alexandra A Newman, Olga A Cherepanova, Gary K Owens, Univ of Virginia, Charlottesville, VA

255

Plasminogen Promotes Cholesterol Efflux by the ABCA1 Nathalie Pamir, Oregon Health & Science Univ, Portland, OR; David A Dichek, Univ of Washington, Seattle, WA; Godfrey S Getz, Univ of Chicago, Chicago, IL; Santica Marcovina, Jay W Heinecke, Univ of Washington, Seattle, WA

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256

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

Xiaoyue Pan, SUNY Downstate Edu, Brooklyn, NY; Christopher A. Bradford, Univ of Wisconsin, Madison, Madison, WI; M. Mahmood Hussain, SUNY Downstate Edu, Brooklyn, NY

257

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

H N Rahman, Hao Wu, Boston Childrens Hosp, Boston, MA; Satish Pasula, Oklahoma Medical Res Fndn, Oklahoma City, OK; Yuzhou Dong, Aiyun Wen, Ye Sun, Megan L Brophy, Boston Childrens Hosp, Boston, MA; Kandice Tessneer, Oklahoma Medical Res Fndn, Oklahoma City, OK; Xiaofeng Cai, Boston Childrens Hosp, Boston, MA; John Mcmanus, Baqjun Chang, Oklahoma Medical Res Fndn, Oklahoma City, OK; Sukyoung Kwak, Hong Chen, Boston Childrens Hosp, Boston, MA

259

Genetic Inactivation of Sirt3 Does Not Alter Endothelial Function or Vascular Compliance in Hypercholesterolemic Mice

Carolyn M Roos, Leslie A Smith, Bin Zhang, Mauricio S Ribeiro, Jordan D Miller, Mayo Clinic, Rochester, MN

260

Apolipoprotein A-I Binding Protein Regulates Macrophage Polarization in Atherosclerosis

Dina A Schneider, Longzhou Fang, Yury I Miller, Univ of California San Diego, La Jolla, CA

262

Lipoprotein(a) Stimulates Pro-Inflammatory Phenotypes in Vascular Cells: Demonstration of a Role for the Lysine-Binding Properties of Apolipoprotein(a)

Corey A Scipione, Victor C Igboike, Rocco Romagnuolo, Univ of Windsor, Windsor, ON, Canada; Marlys L Koschinsky, Robarts Res Inst, London, ON, Canada

263

Role of Micro RNA-21 in Atherosclerosis

Rihab E Hamed-Berai, Srinivas D Sithu, Nalinie Wickramasinghe, Jasmit Shah, Abhinav Agawal, Millicent G Winner, Marcin Wysoczynski, Aruni Bhatnagar, Yong Li, Sanjay Srivastava, Univ of Louisville, Louisville, KY

264

Oral Activated Charcoal Adsorbent (AST-120) Inhibition of Chronic Kidney Disease-induced Atherosclerosis Involves Modulation of Intestinal Immunity

Yohei Tsuchida, Ashley Wilheln, Amy Major, Sean Davies, Macrae Linton, Valentina Kon, Vanderbilt Univ Medical Ctr, Nashville, TN

266

Role of Marine Long-chain Monounsaturated Fatty Acid in Cardiovascular Disease Prevention and Possible Mechanism to Reduce the Atherosclerosis

Zhi-Hong Yang, Boris Vaisman, Milton Pryor, Natl Insns of Health (NIH), Bethesda, MD; Masahiro Bando, Daju Fukuda, Masataka Sata, Hiroshi Sakaue, Tokushima Univ Graduate Sch, Tokushima, Japan; Hiroko Miyahara, Jiro Takeo, Nippon Suisan Kaisha, Hachioji, Japan; Alan Remaley, Natl Insns of Health (NIH), Bethesda, MD

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Identification of Proteolytic Substrates for ADAMTS7 Using Terminal Amine Isotope Labeling of Substrates

Xuan Zhang, Univ of Pennsylvania, Philadelphia, PA; Theo Klein, Univ of British Columbia, Vancouver, BC, Canada; Jian Cui, Kristy Ou, Christine Hinkle, Wenjun Li, Univ of Pennsylvania, Philadelphia, PA; Christopher M Overall, Univ of British Columbia, Vancouver, BC, Canada; Muredach P Reilly, Univ of Pennsylvania, Philadelphia, PA

Vascular Dysfunction in High BMI Black College Football Players

Edward M Powers, Murat Fudim, Heidi J Silver, Vanderbilt Univ Sch of Med, Nashville, TN; Robert W Fitch, Kevin D Niswender, Vanderbilt Univ Medical Ctr, Nashville, TN

Plant Based Diet Improves Glucose Metabolism in 18 Days

Francisco E Ramirez, Jill Siebold, Nedley Clinic, Weimar, CA; Linda Ivy, Walla Walla Univ, College Place, WA; Kathelyn Antuna, Albert Sanchez, Weimar Inst, Weimar, CA; Neil Nedley, Nedley Clinic, Weimar, CA

Animal Products Tend to Increase Hemoglobin A1c Among Depressed Individuals

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

Depressed Individuals May Not Be Aware of Their Own Dyslipidemia

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

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

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Aortic Segmental Diameters are Influenced by Both Common and Segment-specific Factors

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Prevalence of Acquired Long QT Syndrome in Patients with Aortic Valve Stenosis

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Asthma Associates with Human Abdominal Aortic Aneurysm and Rupture

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

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

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Murine Abdominal Aortic Aneurysms Demonstrate Heterogeneous Growth and Remodelling by High-frequency Ultrasound

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

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

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Aortic Valve Stenosis Causes Both Delayed Ventricular Depolarization and Repolarization

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A Female Myh11-CreER2 Mouse Line Resulting from Y to X Chromosome-translation

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310 High Frequency Ultrasound Reveals Dobutamine Increases Murine Aortic Strain
Amelia R Adelsperger, Purdue Univ, West Lafayette, IN; Paige Castle, Joan M. Greve, Univ of Michigan, Ann Arbor, MI; Craig J. Goergen, Purdue Univ, West Lafayette, IN

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

311 Surgical Repair versus Endovascular Revascularization for Chronic Mesenteric Ischemia
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312 Macrophage Metabolic Adaptation to Heme
Gaël F Borie, Univ of Virginia, Charlottesville, VA

313 Differences in Galectin-3, a Biomarker of Fibrosis, Between Subjects with Peripheral Artery Disease and Controls
Ana I Casanegra, Julie A Stoner, Univ of Oklahoma, Oklahoma City, OK; Alfonso J Tafur, Northshore Univ Health System, Evanston, IL; Anne Pereira, Suman Rathbun, Andrew W Gardner, Univ of Oklahoma, Oklahoma City, OK

314 Development of a Nanotube-coated Nitinol Stent for Delivery of Resolv D1
Phin-Peng Lee, Anuran Chatterjee, B. Wu, UCSF, San Francisco, CA; Harald Nuhn, Univ of Southern California, Los Angeles, CA; Tejal Desai, Michael S Conte, UCSF, San Francisco, CA

315 Feasibility of Arteriovenous Fistula Creation after Previous Radial Artery Harvesting for Aortocoronary Bypass
Nicholas J Gargiulo III, The Brookdale Univ Hosp and Medical Ctr, Old Bethpage, NY

316 A Novel Mechanism by Which Tumor Necrosis Factor Alpha Protects Mice From Lipopolysaccharide-induced Vasodilatory Shock, Hypotension, and Motility
Guogang Zhao, Shu Liu, Wen Su, Xiulong Song, Ming C Gong, Zhenheng Guo, Univ of Kentucky, Lexington, KY

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

317 Paracrine Effects of Satellite Cells on Collateral Vessel Formation
Laura Hansen, Giji Joseph, Daiana Weiss, W. Robert Taylor, Emory Univ, Atlanta, GA

318 Matrix Metalloproteinase 12 is Causally Implicated in Cardiovascular Disease
Ulf Hedlin, Hovsep Mahdessian, Ljubica Perisic, Mariette Lengquist, Karl Gertow, Bengt Sennblad, Karolinska Inst, Stockholm, Sweden; Steve E Humphries, Univ Coll London, London, United Kingdom; Ulf de Faire, Karolinska Inst, Stockholm, Sweden; IMPROVE study group; Anders Hamsten, Per Erikkson, Anders Målarstig, Karolinska Inst, Stockholm, Sweden

319 Cardiac Deficiency of AMPK Exacerbates Heart Hypertrophy by Pressure Overload
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This research has received full or partial funding support from the American Heart Association.

320 Prasugrel, a Platelet P2y12 Receptor Antagonist, Improves Abnormal Gait in a Novel Murine Model of Thrombotic Hind Limb Ischaemia
Kousaku Ohno, Atsuyuki Tomizawa, Makoto Mizuno, Daiichi Sankyo Co., Ltd., Tokyo, Japan; Joseph A. Jakubowski, Eli Lilly and Company, Indianapolis, IN; Atsuhiro Sugidachi, Daiichi Sankyo Co., Ltd., Tokyo, Japan

321 In Vivo Vibrational Photoacoustic Tomography of Perivascular Fat in Apolipoprotein E-Deficient Mice
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This research has received full or partial funding support from the American Heart Association.

322 Acute Reduction of Ambient Air Pressure Lowers Systemic Vascular Resistance and Improves Cardiac Output in Mice in-vivo
Anmol Shahid, Vaibhav B Patel, Gavijn Y Oudit, Michael Sean McMurtry, Univ of Alberta, Edmonton, AB, Canada

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

323 Ankle Brachial Index as a Predictor for Abnormal Cardiovascular Stress Test and Cardiovascular Outcomes
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324 Non-Invasive Volumetric Assessment of Angiosome Perfusion in Diabetic Patients With Critical Limb Ischemia and Non-Healing Ulcers Using Radiotracer Imaging
Jessica L Buckley, Carlos Mena, Xenophon Papademetris, Peter A Blume, Bauer E Sumpio, Albert J Sinusas, Mitchel R Stacy, Yale Univ Sch of Med, New Haven, CT

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

325 Group IIA Secretory Phospholipase A2 Predicts Graft Failure and Cardiovascular Mortality in Renal Transplant Recipients by Mediating Decreased Kidney Function
Wijtske Annema, Jan Freark de Boer, Arne Dikkers, Stephan J. Bakker, Uwe J.f. Tietge, Univ Medical Ctr Groningen, Groningen, Netherlands

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327 Diabetes Influences Carotid Artery Endarterectomy Plaque Lipidomics

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328 Effects of Unilateral Hindlimb Venous Occlusion in a Murine Model

Ross M. Clark, Brittany B. Coffman, Thomas R. Howdieshell, Univ of New Mexico, Albuquerque, NM

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

Cristina Harmelink, Vanderbilt Univ, Nashville, TN; Bin Zhou, Albert Einstein Coll of Med, Bronx, NY; Xianghu Qu, H. Scott Baldwin, Vanderbilt Univ, Nashville, TN

330 Testicular Vein Thrombosis Etiology and Outcomes

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

331 Restless Leg Syndrome and Its Association with Iliofemoral Venous Disease

Navya Reddy, UMKC, Kansas City, MO

332 Characteristics of Patients with Submassive Pulmonary Embolism with Early Re-hospitalization After IFAA Administration


333 Vascular Type Ehlers Danlos Syndrome is Associated with Thrombocyte Dysfunction and Low Vitamin D Serum Concentration

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334 An Echogenic Clot Method for Thrombolysis Monitoring of Directed Lytics in Thrombotic Stroke

Dalton E. Carter, Tao Peng, Melanie R. Moody, Shao-Ling Huang, David D. McPherson, Melvin E Klegerman, Univ of Texas Health Science Ctr at Houston, Houston, TX

335 Mechanical Valve Thrombosis and Therapy

Moses Osoro, Univ of Tennessee Graduate Sch of Med, Knoxville, TN

336 Metabolites Reflecting Fresh Venous Thrombus: Lactic Acid and Guanine Enhance Whole Blood Coagulation

Atsushi Yamashita, Miyazaki Univ, Miyazaki, Japan; Chihiro Sugita, Kyushu Univ of Health and Welfare, Nobeoka, Japan; Sayaka Moriguchi-Goto, Eriko Nakamura, Kazunari Maekawa, Yujiro Asada, Miyazaki Univ, Miyazaki, Japan

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

Lisa Pasterk, Sandra Lemesch, Bettina Leber, Markus Trieb, Sanja Curic, Vanessa Stadlbauer, Rufina Schuligoi, Rudolf Schicho, Akos Heinemann, Gunther Marsche, Medical Univ of Graz, Graz, Austria

339 Comparison of the Antiplatelet Effect Between Ticagrelor and Clopidogrel in Chinese Patients with Acute Myocardial Infarction After Primary Percutaneous Coronary Intervention Jingjing Xu, Yi Yao, Jiahui Zhang, Xiaofang Tang, Yuanliang Ma, Jinqing Yuan, Fujai Hosp and Cardiovascular Inst, Beijing, China

340 Recombinant Soluble Apyrase Inhibits Vascular Smooth Muscle Cell Migration

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

341 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 Gurnia, Vanderbilt Univ, Nashville, TN

342 Analysis of Mechanism of a Novel Drug Candidate using an Organ-level Functional Microdevice that Reconstitutes Human Pulmonary Thrombosis

Abhishek Jain, Riccardo Barlone, Wyss Inst at Harvard Univ, Boston, MA; Omozuavo Aiisiku, Karen De Ceynynck, Beth Israel Deaconess Medical Ctr at Harvard Medical Sch, Boston, MA; Andries D. van der Meer, Wyss Inst at Harvard Univ, Boston, MA; Sean Stott, Alice De Groot, Wyss Inst at Harvard Univ, Boston, MA; Donald E. Ingber, Wyss Inst at Harvard Univ, Boston, MA

343 Vascular Inflammation in Two Rat Models of Arterial Hypertension is Promoted by Coagulation FXI

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Wolfram Ruf, Thomas Münzel, Philip Wenzel, Univ Medical Ctr Mainz, Mainz, Germany

Kuang-Yuh Chyu, Cedars-Sinai Medical Ctr, Los Angeles, CA

344
Kruppel-like Factor 15: A Critical Transcriptional Regulator of Hypoxia Induced Endothelial Arginase 2
Deepeesh Pandey, Dan Berkowitz, Lew Romer, Johns Hopkins Univ, Baltimore, MD

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

345
Syzygium Jambos: A Potential Therapeutic Approach to Treat the Vascular and Hematological Complications of Sickle Cell Disease
Anaualura Santiago-Perez, Yaritza Inostroza-Nieves, Daniel Gil de la Madrid, Isamar Alicia, San Juan Bautista Sch of Med, Caguas, PR; Christopher Vega, Gregory N. Prado, Harvard Medical Sch, Boston, Massachusetts, USA, Boston, MA; Alicia Rivera, Boston Children's Hosp/Harvard Medical Sch, Boston, Massachusetts, USA, Boston, MA; Jose Romero, Brigham and Women’s Hosp/Harvard Medical Sch, Boston, Massachusetts, USA, Boston, MA; Shirley Valentín, San Juan Bautista Sch of Med, Caguas, PR

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

346
Manipulating P2Y2 Receptor Biased Signaling to Limit Prothrombotic Gene Expression in Human Coronary Artery Endothelial Cells
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347
Endothelin-1 Regulates Molecules of the Major Histocompatibility Complex: Role in Sickle Cell Disease
Isamar Alicia, Daniel Gil de Lamadrid, Anaualura Santiago, San Juan Bautista Sch of Med, Caguas, PR; Joshua Cazares, Brigham and Women’s Hosp, Boston, MA; Shirley Valentín, San Juan Bautista Sch of Med, Caguas, PR; Alicia Rivera, Boston Children's Hosp/ Harvard Medical Sch, Boston, MA; Jose R Romero, Brigham and Women’s Hosp/ Harvard Medical Sch, Boston, MA; Yaritza Inostroza-Nieves, San Juan Bautista Sch of Med, Caguas, PR

348
Loss of Cadherin-11 Prevents Aortic Valve Intersitial Cell Contraction
Meghan Bowler, W. David Merryman, Vanderbilt Univ, Nashville, TN

349
Chronic Adventitial Inflammation, Vasa Vasorum Expansion and 5-lipoxygenase Upregulation in Previously Irradiated Arteries From Cancer Survivors
Tinna Christersdottir, Magnus Bäck, Martin Halle, Karolinska Inst, Stockholm, Sweden

350
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
Xiaoning Zhao, Paul C Dimayuga, Juliana Yano, Jianchang Zhou, Wai Man Lio, Bojan Cersek, Prediman K Shah

351
MHC-II Tetramer-based Isolation of Atherosclerosis Autoantigen-specific T Cells
Teresa Gerhardt, Dennis Wolf, Takayuki Kimura, La Jolla Inst for Allergy and Immunology, La Jolla, CA; Marc K. Jenkins, Thamotharampillai Dileepan, Univ of Minnesota Medical Sch, Minneapolis, MN; Klaus Ley, La Jolla Inst for Allergy and Immunology, La Jolla, CA

352
Real-time Intravital Optical Imaging Reflects the Dynamic Changes of Oxidative Stress Induced by Cigarette Smoking in Vasculatures
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353
Chronic Polarization of Low-grade Inflammatory Monocytes During the Pathogenesis of Atherosclerosis
Liwu Li, Shuo Geng, Virginia Tech, Blacksburg, VA

354
Mechanical Stretch on Endothelial Cells Promotes Monocyte Differentiation into Immunogenic Dendritic Cells
Roxana Loperena, Wei Chen, Annet Kirabo, David G Harrison, Vanderbilt Univ, Nashville, TN

355
Progenitor Cells and Extracellular Vesicles as Biomarkers for Vasculitis

356
IFN-γ-Dependent TET2 Repression in Coronary Allograft Vasculopathy
Allison Ostriker, Kristen Leslie, Kathleen Martin, Yale, New Haven, CT

357
Antioxidant and Anti-inflammatory Strategies Prevent Endothelial Dysfunction in Chronic Kidney Disease
Marta Palomo, Josep Carreras Leukaemia Res Inst (IJC), Barcelona, Spain; Susana Martin-Rodriguez, Manel Vera, Inst d’Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Hosp Clinic, Univ de Barcelona, Barcelona, Spain; Josep Maria Cruzado, Bellvitge Hosp Univr, Barcelona, Spain; Jose Rivera, Hosp Univrio Morales

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Meseguer and Ctr Regional de Hemodonación, Murcia, Spain; Aleix Cases, Ginés Escolar, Maribel Díaz-Ricart, Inst d’Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Hosp Clinic, Unv de Barcelona, Barcelona, Spain

358
Myeloid-specific II-4 Receptor α Knockout Alters Cardiac Remodeling Post-myocardial Infarction
Jianrui Song, Thomas Vigil, Yutein Chung, Ryan Frieler, Sascha Goonewardena, Richard Mortensen, Univ of Michigan, Ann Arbor, MI

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

360
Loss of Endothelial CXCR7 Exacerbates Wire-injury Induced Neointimal Formation
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361
Oxidized Phospholipids Are Proinflammatory and Proatherogenic
Xuchu Que, Calvin Yeang, Ming-Yow Hung, Fumihiro Yamaguchi, Cody J. Dieih, Ayelit 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

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

365
HIV-Nef Induced Endothelial Cell Dysfunction is Rac Dependent and Downregulated with Atorvastatin Treatment
Sarvesh Chelvanambi, Noelle Dahl, Matthias Clauss, Indiana Univ, Indianapolis, IN

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

367
Eph-B4 Mediates Arteriovenous Fistula Maturation via Akt-1
Trenton Foster, Clinton Protack, Takuya Hashimoto, Hualong Bai, Jesse Hanisch, Haidi Hu, Mo Wang, Jeans Santana, Alan Dardik, Yale Univ, New Haven, CT

368
Novel Role of Cofilin in Retinal Neovascularization
Raj Kumar, Jagadish Janjam, Nihklesh K. Singh, Gadiparthi N. Rao, Univ of Tennessee Health Science Ctr, Memphis, TN

369
SMC-Specific Tgfr1 Deficiency Inhibits Neointimal Hyperplasia In Injured Arteries
Mingmei Liao, Junmei Zhou, Univ of Florida, Gainesville, FL; Pu Yang, XiangYa Hosp, Central South Univ, Changsha, China; Yasmin Ali, Fen Wang, Zhihua Jiang, Univ of Florida, Gainesville, FL

370
Matrix Metalloproteinase-3 Regulates Arterial Calcification
Tonghui Lin, Xue-In Wang, Yujun Cai, Sara L. Zettivall, Raul J. Guzman, Beth Israel Deaconess Medical Ctr/Harvard Medical Sch, Boston, MA

371
Targeted Bone Marrow Cell Delivery Mediated by Nanocarriers Endowed with Molecular Recognition
Zhao-Jun Liu, Pirouz Daftarian, Leticia Kovalski, Bo Wang, Runxia Tian, Diego M Castilla, Emre Dikici, Victor L Perez, Sapna Deo, Sylvia Daunert, Omaid A Velazquez, Univ of Miami, Miami, FL

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

372
The Endothelial Glycocalyx Promotes Homogeneous Blood Flow Distribution within the Microvasculature
P Mason McClatchey, Univ of Colorado, Aurora, CO

373
Manganese Superoxide Dismutase: A Novel Mediator of Heart Failure Development and Progression
Sumitra Miriyala, Mini Chandra, Jonathan Fox, Christopher Kevill, Wayne Orr, Manikandan Panchatcharam, LSU Health Sciences Ctr - Shreveport, Shreveport, LA

374
Inhibition of Mitochondrial CaMKII Reduces Vascular Smooth Muscle Migration and Neointima Formation and Halts Mitochondrial Mobility
Emily Nguyen, Olha Koval, Isabella Grumbach, Univ of Iowa, Iowa City, IA
375 Calcification of Human Saphenous Vein Correlates With Endothelial Dysfunction: A Histopathophysiologically and Morphological Study
Sydney Pedigo, Alex Banathy, Fan Dong Li, Joyce Cheung-Flynn, Colleen Brophy, Padmini Komalavilas, Vanderbilt Univ Medical Ctr, Nashville, TN

376 Downregulation of Endogenous Apelinergic Axis Mediates Endothelial and Organismal Senescence
Rahul Rai, Asish K Ghosh, Northwestern Univ, Chicago, IL; Layton H. Smith, Sanford-Burnham Medical Res Inst, Orlando, FL; Douglas E. Vaughan, Northwestern Univ, Chicago, IL

377 Phorbol 12-myristate 13-acetate Downregulates Tissue Factor Gene Expression in Human Pericytes
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This research has received full or partial funding support from the American Heart Association.

378 Cytochrome b5 Reductase 3 Regulates Vascular Smooth Muscle Phenotypic Switching
Amoghia Vijayavargiya, Anh Nguyen, Megan P. Miller, Scott Hahn, Adam C Straub, Univ of Pittsburgh, Pittsburgh, PA

379 Silencing of Fxyd1 Uncouples Enos in Human Umbilical Vein Endothelial Cells
Owen Tang, Tom H Huang, Jianmei Li, Sarah Tandy, Gemma Figtree, Kolling Inst of Medical Res, St Leonards NSW, Australia

380 Notch4 Uncouples Endothelial Nitric Oxide Synthase Leading to Arteriovenous Malformations
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This research has received full or partial funding support from the American Heart Association.

381 Chemogenetic Activation of Satellite Glial Gq-GPCR Signaling Enhances Cardiovascular Function in vivo
Alison X Xie, Jakovin J Lee, Ken D McCarthy, UNC-Chapel Hill, Chapel Hill, NC

382 Cyclophilin A (CypA) is a Pathogenic Mediator of Pulmonary Arterial Hypertension
Chao Xue, Univ of Rochester, Rochester, NY
This research has received full or partial funding support from the American Heart Association.

383 STIM1 Deficiency in Vascular Smooth Muscle Cells Promotes Vascular Calcification in Atherosclerosis
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This research has received full or partial funding support from the American Heart Association.

384 Integration of Aorta Network Models from Mouse Ath-HMDP with Human GWAS Reveals Novel Mechanisms of Coronary Artery Disease
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385 Human Stem Cell-based Vascular-Liver Platform for Predicting Efficacy of Nutraceuticals in Vascular Protection
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386 Sonic Hedgehog Promotes Stem Cell Differentiation to Vascular Smooth Muscle in vitro
Maryam Alshamrani, Emma Fitzpatrick, Dublin City Univ, Dublin, Ireland; Eileen M Redmond, Univ of Rochester Med Ctr, Rochester, NY; Paul A Cahill, Dublin City Univ, Dublin, Ireland

387 Regulation of Apolipoprotein B Secretion by Hepatic Sortilin is Dependent on Secretory Stress
Donna Conlon, Amrith Rodrigues, Alanna Strong, Nicholas Hand, Daniel Rader, Univ of Pennsylvania, Philadelphia, PA

388 Impact of Individual Acute Phase Serum Amyloid A Isoforms on HDL Metabolism in Mice
Maria C De Beer, Myung-Hee Kim, Joanne M Wroblewski, Richard C Charnigo, Ailing Ji, Nancy R Webb, Frederick C De Beer, Deneyes R Van der Westhuizen, Univ. of Kentucky, Lexington, KY
This research has received full or partial funding support from the American Heart Association.

389 Covalent Modifications of Apolipoproteins in High Density Lipoprotein by Oxidized Phospholipids Impair the Cholesterol Efflux Function of High Density Lipoprotein and are Detected in Hyperlipidemic Plasma
Detao Gao, Lifang Zhang, Eugene Podrez, Cleveland Clinic Lerner Res Inst, Cleveland, OH
Human Aortic Valve Interstitial Cells Exhibit Decreased Cholesterol Efflux Associated with Hypo-α1-nascent HDL Particles
Anouar Haflane, Adel Schwertani, Jacques Genest, McGill Univ, Montreal, QC, Canada

Apolipoprotein E3, Apolipoprotein Al, and Apolipoporphin III Chimeras Provide Insight Into the Domain Organization of Apolipoproteins
James V Horn, Mark Lek, Nnejiwa Ibe, Rachel A Ellena, Wendy H Beck, California State Univ Long Beach, Long Beach, CA; John K Bielicki, Lawrence Berkeley Natl Lab, Berkeley, CA; Vasanthy Narayanaswami, Paul M Weers, California State Univ Long Beach, Long Beach, CA

The Plasma Proteome of Tangier Disease Patients Reveals Perturbations of Diabetic and Inflammatory Pathways
James T McParland, Evanthia Pashos, Daniel J Rader, Marina Cuchel, Univ of Pennsylvania, Philadelphia, PA

Covalently Connected Apolipoprotein A-I Molecules Provide Support for the Double Belt Model in Reconstituted HDL
Jamie C Morris, W. Sean Davidson, Metabolic Diseases Inst/Univ of Cincinnati, Cincinnati, OH

ApoE3-containing High Density Lipoprotein Serves as a Multifunctional Platform for Delivery of Gold Nanoparticles for Hyperthermic Treatment
Vasanthy Narayanaswami, Skylar T Chuang, Young-Seok Shin, California State Univ, Long Beach, Long Beach, CA

High-performance Gel Permeation Chromatography Analysis Characterizes Lipoprotein Profiles in Patients with Cholesteryl Ester Transfer Protein Deficiency
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Diet-derived Lysophosphatidic Acid and Obesity-associated Cardiovascular Disease Risk
Fredrick Onono, Paul Mueller, J. Brandon, Sony Soman, Manjula Sunkara, Susan Smyth, Andrew Morris, Univ of Kentucky, Lexington, KY

Transgenic Expression of Cholesterol Ester Transfer Protein in Female Mice Disrupts Liver and Plasma Triglyceride Metabolism With Estrogen Treatment in a Liver Network Involving Estrogen Receptor Alpha and Small Heterodimer Partner
Brian T. Palmisano, Lin Zhu, John M Stafford, Vanderbilt Univ Medical Ctr, Nashville, TN

LDL Receptor Signaling Mediates the Triglyceride-lowering Action of Akkermansia Muciniphila in Genetic Induced Hyperlipidemia
Jing Shen, Xuedong Tong, Neetu Sud, Qiaozhu Su, Univ of Nebraska-Lincoln, Lincoln, NE

Determining the Contribution of Endothelial Lipase-mediated Lipolysis to Brain Phospholipid Metabolism
Cecilia Vitali, Sumeet A Khetarpal, Jeffrey T Billheimer, Univ of Pennsylvania, Philadelphia, PA; Papasani V Subbaiah, Univ of Illinois at Chicago Coll of Med, Chicago, IL; Daniel J Rader, Univ of Pennsylvania, Philadelphia, PA

Functional Analysis of Coronary Artery Disease-associated PLP3 Gene Variants
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miRNA Targeting of Oxysterol Binding Protein-like 6 (OSBP6) Regulates Cholesterol Trafficking and Efflux
Mireille Ouiimet, Elizabeth Hennessy, Graeme Koelwyn, Coen van Solingen, Maryem Hussein, Bhama Ramkhelawon, New York Univ Medical Ctr, New York, NY; Katey Rayner, Univ of Ottawa Heart Inst, Ottawa, ON, Canada; Michael Garabedian, New York Univ Medical Ctr, New York, NY; Ryan Temel, Univ of Kentucky, Lexington, KY; Lesca Holdt, Daniel Tupser, Inst of Lab Med, Ludwig-Maximilians-Univ Munich, Munich, Germany; Kathryn Moore, New York Univ Medical Ctr, New York, NY

Identification of CHROME as a Competing Endogenous RNA that Regulates Cholesterol Homeostasis
Coen van Solingen, Elizabeth J Hennessy, Mireille Ouiimet, Kaitlyn Rinehold, Maryem Hussein, Michael J Garabedian, NYU Sch of Med, New York, NY; Daniel J Rader, Univ of Pittsburgh, Pittsburgh, PA; Papasani V Subbaiah, Univ of Illinois at Chicago Coll of Med, Chicago, IL; Daniel J Rader, Univ of Pennsylvania, Philadelphia, PA; Lesca Holdt, Daniel Tupser, Inst of Lab Med, Ludwig-Maximilians-Univ Munich, Munich, Germany; Kathryn Moore, New York Univ Medical Ctr, New York, NY

A High Dose Olive Oil, Polyphenol, and Lectin Limited Diet Reverses and/or Stabilizes Advanced Coronary Artery Disease
Steven R Gundry, Jean Epstein, Intl Heart & Lung Inst, Palm Springs, CA

Utility of Very Low-density Lipoprotein Cholesterol to Total Triglyceride Ratio (VLDL-C/CTG) and Non-VLDL TG to Quantify Remnant Lipoprotein Cholesterol (RLP-C): The Very Large Database of Lipids Study 7C
Aditya D Hrendani, Union Memorial Hosp, Baltimore, MD; Renato Quispe, Seth S Martin, Johns Hopkins Ciccarone Ctr for the Prevention of Heart Disease, Baltimore, MD; Krishnaji R Kulkarni, Atherotech Diagnostics Lab, Birmingham, AL; Peter P Toth, CGH Medical Ctr, Sterling, IL; Parag H Joshi, Univ of Texas Southwestern Medical Ctr, Dallas, TX; Steven R Jones, Johns Hopkins Ciccarone Ctr for the Prevention of Heart Disease, Baltimore, MD
406
Achievement of Treatment Target in Korean Patients With Familial Hypercholesterolemia
Chan Joo Lee, Jaewon Oh, Jung Sun Kim, Sang-Hak Lee, Yonsei Univ Coll of Med, Seoul, Korea, Republic of

407
Atherogenic Dyslipidemia in Patients with Diabetes Mellitus May Have Distinct High Density Lipoprotein Function
Wenliang Song, Bridgeport Hosp of Yale New Haven Health, Bridgeport, CT; Jing Du, Li Qin, Yale Sch of Med, New Haven, CT; Stuart Zurich, Sachin Majumdar, Bridgeport Hosp of Yale New Haven Health, Bridgeport, CT; John Hwa, Yale Sch of Med, New Haven, CT

408
Endothelin-1 and Vitamin D3 Potentiated Calcification and Outward Vascular Remodeling in Leptin-deficient ob/ob Mice
Luciana Simao Carmo, Youfi Eliphas Almeida, Maria Claudina Andrade, Elisangela Farias Silva, Marcel Liberman, Hosp Israelita Albert Einstein, São Paulo, Brazil

409
Notch Signaling in Bone Marrow-derived FSP-1+ Cells Mediates a Phenotypic Change in Smooth Muscle Cells Leading to AVF Failure
Jizhong Cheng, Ming Liang, Jinlong Luo, Baylor Coll of Med, Houston, TX; Jie Du, Beijing Anzhen Hosp of the Capital Medical Univ, Beijing, China

410
Link Between Hypertension and Insulin Resistance in South Asians: Implications for Prevention of Cardiovascular Complications

411
Obesity Alters the Expression of Very Low Density Lipoprotein Receptor (vldlr) Expression in Peripheral Blood Monocytes: Possible Links Between Vldlr Expression and Monocyte Phenotypes
Tahar Hajri, Brian Johnson, George Mazpule, Tohgrul Talishinskiiy, Sebastian Eid, Douglas Ewing, Richard Novack Jr, Richard Novack Jr, Hans Schmidt, Hackensack Univ Medical Ctr, Hackensack, NJ; Bariatric Surgery Group

412
Are Body Mass Index and Serum Low Density Lipoproteins Cholesterol Increase Risk for Thromboembolic Events and Give Additive Information with CHADS2 Score in Nonvalvular Atrial Fibrillation Patients?

413
CD34+CD31+ Endothelial Cells From Human Obese Subcutaneous but Not Omental Fat Show Adipogenic Potential
Ashley James, Bronson Haynes, Anca Dobrian, Eastern Virginia Medical Sch, Norfolk, VA

414
Thymoquinone Inhibits Ouabain-induced Arrhythmia in Rat Isolated Atria
Golrokh Malihi, Washington Univ in St. Louis, Balwin, MO

415
This research has received full or partial funding support from the American Heart Association.

416
Evaluation of Antibody Responses Toward Post-Translationally Modified and Unmodified Peptide Epitopes of Apolipoprotein A-I
David Henson, Vincent J Venditto, Univ of Kentucky, Lexington, KY

417
Control of Adipose Tissue Macrophage Metabolism by Oxidized Phospholipids
Vlad Serbulea, Akshaya Kumar Meher, Samantha Adamson, Norbert Leitinger, Univ of Virginia, Charlottesville, VA

418
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419
Metabocin™ Increases Lipolytic Pathways to Counter High Fat Diet-Induced Non-Alcoholic Fatty Liver Disease
Baskaran Thyagarajan, Sara Cisneros, Ross Cook, Padmamalini Baskaran, Univ of Wyoming, Laramie, WY

420
This research has received full or partial funding support from the American Heart Association.

421
G3BP1 Activation of NFATc Signaling is Inhibited by LRP6 in Aortic Vascular Smooth Muscle Cells
Bindu Ramachandran, John Stabiley, Abraham Behrmann, Su-Li Cheng, Megan Mead, UT Southwestern Medical Ctr, Dallas, TX; Bart Williams, Van Andel Res Inst, Grand Rapids, MI; Dwight A Towler, UT Southwestern Medical Ctr, Dallas, TX

422
N-acetylcysteine Attenuates Systemic Platelet Activation and Cerebral Vessel Thrombosis in Diabetes
Bin Wang, Tak Yee Aw, Karen Y Stokes, LSU Health Sciences Ctr-Shreveport, Shreveport, LA

423
Oxidation of Ldl by Iron at Lysosomal pH Leads to the Formation of Tryptophan Radicals Which Are Not Inhibited by Probucol
Feroz Ahmad, David S Leake, Inst of Cardiovascular and Metabolic Res, Reading, United Kingdom
Potential Role of Natriuretic Peptides in Atherosclerosis and Inflammation
Chandrakala Alagunti Narasimhulu, Sampath Parthasarathy, The Univ of Central Florida, Orlando, FL

Transintestinal Cholesterol Excretion Can Drive Massive Cholesterol Elimination in Mice
Jan F De Boer, Marleen Schonewille, Marije Bojesjes, Henk Wolters, Vincent W Bloks, Trinije Bos, Theo H Van Dijk, Angelika Jurdzinski, Renze Boverhof, Univ Medical Ctr Groningen, Groningen, Netherlands; Jan M Van Deursen, Mayo Clinic, Rochester, MN; Ronald P Oude Elferink, Academic Medical Ctr, Amsterdam, Netherlands; Antonio Moschetta, Univ of Bari, Bari, Italy; Claus Kremoser, Phenex Pharmaceuticals AG, Ludwigshafen, Germany; Henkjan J Verkade, Folker Kuipers, Albert K Groen, Univ Medical Ctr Groningen, Groningen, Netherlands

Brown Fat Activation Enhances the Lipid-lowering and Antiatherogenic Effect of Statin Treatment
Geerte Hoeke, Andrea D van Dam, Mariëtte R Boon, Jimmy F Berbèe, Patrick C Rensen, Leiden Univ Medical Ctr, Leiden, Netherlands

MicroRNA-30c Mimic Treatment Attenuates Hypercholesterolemia and Atherosclerosis in Mice
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An Oral, Rising, Multiple-dose Tolerance, Pharmacokinetic, and Pharmacodynamic Study of Gemcabene in Healthy Volunteers
Margaret McShane, Gempire Therapeutics Inc, Northville, MI; Louis Radulovic, Drug Development Preclinical Services, Ann Arbor, MI; Charles L Bissgaier, Gempire Therapeutics Inc, Northville, MI

Lipoprotein(a) Targeting With RNAi Delivery Platforms in Transgenic Mice and Cynomolgus Monkeys
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Structural Stability of Streptococcal Serum Opacity Factor
Corina Rosales, Baiba K Gillard, Dedipya Yelamanchili, Antonio M Gotto Jr, Henry J Ponnwall, Houston Methodist Res Inst, Houston, TX

Efficacy of ApoC-II Mimetic Peptide in Novel Apoc2 Mutant Mice with Hypertriglyceridemia and Impaired Insulin Sensitivity
Toshihiro Sakurai, Akiko Sakurai, Boris L Vaisman, Marcelo J Amar, Chengyu Liu, Scott M Gordon, Steven K Drake, Milton Pryor, Maureen L Sampson, Ling Yang, Lita A Freeman, Audrey Noguchi, Alan T Remaley, NIH, Bethesda, MD

Endothelial Cells Express miR-33a-5p and Release Extracellular Vesicles Containing miR-33a-5p
Alexis Stamatikos, Lucia Voltech, Nagadhrara Dronadula, David Dichek, Univ of Washington, Seattle, WA

Liver Disease Alters HDL Metabolism and Function
Markus Trieb, Angela Horvath, Vanessa Stadlbauer, Ulrike Taschler, Sanja Curic, Michael Holzer, Lisa Pasterk, Akos Heinemann, Gunther Marsche, Medical Univ of Graz, Graz, Austria

Vascular Gene Therapy with Apolipoprotein A-I in a Rabbit Model of Atherosclerosis Regression
Bradley K Wacker, Jingwan Zhang, Nagadhrara Dronadula, David A Dichek, Univ of Washington, Seattle, WA

Smooth Muscle Specific Knock-out of the Zinc-Finger Protein 148(ZFP148) Attenuates Atherosclerotic Lesion Formation via Regulation of Apoptotic Signaling Pathways
Morgan Salman, Anna Z. Fashandi, Michael D. Spinosa, Ashish K. Sharma, Gary K. Owens, Univ of Virginia Medical Ctr, Charlottesville, VA; Juanita L. Merchant, Univ of Michigan at Ann Arbor, Ann Arbor, VA; Zendra E. Zehner, Virginia Commonwealth Univ Medical Coll of Virginia Campus, Richmond, VA; Gilbert R. Upchurch Jr., Gorav Ailawadi, Univ of Virginia Medical Ctr, Charlottesville, VA

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

Cd146 Deficiency Leads to Accelerated Atherosclerosis in Mice Through Uregulation of Rantes
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Atherosclerosis Development is Reduced in Mice With Blunted Biliary Cholesterol Secretion
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

Non-Invasive Quantification of Rat Vasculature
Biomechanical Properties Under a Cardiovascular Challenge: Implications in Atherosclerosis Progression
Paige E Castle, Joan M Greve, Univ of Michigan, Ann Arbor, MI

Gamma-glutamyltransferase and Markers of Subclinical Atherosclerosis in Patients with Psoriasis
Kenan Demircioglu, Feyza Aksu, Mustafa Caliskan, Yusuf Yilmaz, Istanbul Medeniyet Univ, Faculty of Med, Istanbul, Turkey

Generation of an Abcg1 Knock Out Mouse on the Reversa Background
Gillian Douglas, Lucy Treffa, Keith Channon, Ben Davies, Shoumo Bhattacharya, Univ of Oxford, Oxford, United Kingdom

Constitutive Bone Morphogenetic Protein 2-dependent Osteogenic Signaling in M1 Macrophages
Prabhatcandra Dube, Univ Of Toledo, Toledo, OH

Semaphorin3A Reduces Atherosclerotic Plaque Formation in ApoE Knock Out Mice Through Regulation of M2 Type Macrophage Migration
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Endothelial Inflammation and Loss of Bone Morphogenetic Protein Receptor 2 in Oscillatory Shear Stress Model
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This research has received full or partial funding support from the American Heart Association.

EphA2 Regulates Vascular Smooth Muscle Fibroproliferative Remodeling in Atherosclerosis
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This research has received full or partial funding support from the American Heart Association.

Atherosclerosis-driven Treg Plasticity Results in the Formation of a Dysfunctional Subset of Plastic IFNg+ Th1/Tregs
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Nox4 Derived Ros Plays a Vasculoprotective Role in the Development of Diabetes Associated Atherosclerosis
Stephen P Gray, Elyse DiMarco, Phyllis Chew, Kit Kennedy, Mark E Cooper, Baker IDI Heart & Diabetes Inst, Melbourne, Australia; Kathy Griendling, Emory Univ, Atlanta, GA; Harald Schmidt, Maastricht Univ, Maastricht, Netherlands; Karin Jandeleit-Dahm, Baker IDI Heart & Diabetes Inst, Melbourne, Australia

Modification of HDL by Reactive Aldehydes Impairs HDL’s Athero-protective Functions
Rebecca L Holme, Alexandra C Chadwick, Sarah C Proudfoot, Medical Coll of Wisconsin, Milwaukee, WI; Yiliang Chen, Devi Prasad Ramakrishnan, Blood Ctr of Wisconsin, Milwaukee, WI; Roy L. Silverstein, Daisy Sahoo, Medical Coll of Wisconsin, Milwaukee, WI

Bone Marrow-derived Matricellular Protein CCN3 is Protective against Atherosclerosis
Chao Zhang, Xingjian Hu, Hong Shi, Wencoungui Wu, Yulan Qing, Case Western Reserve Univ, Cleveland, OH; Bernard Perbal, Int'l CCN Society, Paris, France; Nianguo Dong, Huazhong Univ of Science and Technology, Wuhan, China; Zhiyong Lin, Case Western Reserve Univ, Cleveland, OH

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

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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470 Outpatient Community Based Educational Program Reduces Lipids in Two Weeks
Francisco E Ramirez, Jill Siebold, Nedley Clinic, Weimar, CA; Kathelyn Antuna, Albert Sanchez, Weimar Inst, Weimar, CA; Neil Nedley, Nedley Clinic, Weimar, CA

472 PPARy-agonist Rosiglitazone Modulates Macrophage Proliferation, Polarization, and Inflammatory Function
Danielle Hyatt, Francis J Alenghat, Univ of Chicago, Chicago, IL

473 Identification of Apolipoproteins Using Feature Selection Technique
Hua Tang, Sichuan Medical Univ, Luzhou, China; Hao Lin, Univ of Electronic Science and Technology of China, Chengdu, China

500 DNA Methylation Profiling Reveals an Epithelial/Endothelial-Mesenchymal Transition-like Signature of Intima-Media Cells in the Ascending Aorta of Bicuspid Aortic Valve Patients
Hanna M Björck, Lei Du, Valentina Paloschi, Shohreh Maleki, Karolinska Instt, Stockholm, Sweden; Silvia Pulignani, Natl Res Council, Pisa, Italy; MIBAVA Leducq Consortium; Anders Franco-Cereceda, Per Eriksson, Karolinska Instt, Stockholm, Sweden

501 A Pivotal Role of Smooth Muscle Bmal1 in Mineralocorticoid Receptor Agonist plus Salt Induced Mouse Aortic Aneurysm
Jenny Lutshumba, Shu Liu, Zhenheng Guo, Ming C. Gong, Univ of Kentucky, Lexington, KY

502 Ix2x2
Preeti Maurya, Sukka Santosh Reddy, Anant Jaiswal, Manoj Kumar Barthwal, CSIR-Central Drug Res Inst, Lucknow, India

503 Chronic Kidney Disease is a Risk for Abdominal Aortic Aneurysm but Diabetes Mellitus is a Protective Factor in Japanese
Hidemi Takeuchi, Haruhito Uchida, Okayama Univ Grad Sch of Med, Okayama, Japan; Michihiro Okuyama, Okayama Univ Hosp, Okayama, Japan; Ryoko Umebayashi, Yuki Kakio, Yuka Okuyama, Jun Wada, Okayama Univ Grad Sch of Med, Okayama, Japan

504 Telomere-based Assessment of Biological Age in Patients with Advanced Vascular Disease

505 Circulating Monocyte-Platelet Aggregates are Different Across Phenotypes of Vascular Disease
Nicole Allen, Yu Guo, Adriana Perez, Edna Bissoon, Matthew Cambria, Maya Rubin, Gabriel Lerner, Mark Adelman, Caron B. Rockman, Jeffrey S. Berger, NYU Medical Ctr, New York, NY

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

506 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

507 Change in Pulse Wave Velocity and Short Term Development of Cardiovascular Events in the Hemodialysis Population
Yazan Daaboul, Serge Korjian, Lebanese American Univ, Jbeil, Lebanon; Balsam El-Ghoul, Salam Samad, North Hosp Ctr, Northern Lebanon, Lebanon; Pascale Salameh, Lebanese Univ, Beirut, Lebanon; Georges Dahan, North Hosp Ctr, Northern Lebanon, Lebanon; Essa Hariri, Anthony Mansour, Lebanese American Univ, Jbeil, Lebanon; Kathryn Spielman, Tufts Univ, Boston, MA; Jacques Blacher, Michel Safar, Ctr de Diagnostic, Hop Hotel-Dieu, Paris, France; Sola Aoun Bahous, Lebanese American Univ, Jbeil, Lebanon

508 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

509 Screening for Carotid Occlusive Disease in Patients With Mild Peripheral Vascular Disease
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

510 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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511 Adverse Outcomes in Patients with Diabetes Mellitus Following Stenting for Lower Extremity Peripheral Arterial Disease
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Sarah Kiani, Usman Salahuddin, Haekyung Jeon Slaughter, Atif Mohammad, Emmanouil S. Brilakis, Subhash Banerjee, UT Southwestern, Dallas, TX

512
The Long Non-coding RNA MIAT Regulates Smooth Muscle Cell Proliferation and Macrophage Activity in Advanced Atherosclerotic Lesions
Yuhuang Li, Hong Jin, Lubica Perisic, Ekaterina Chernougovra, Alexandra Bäcklund, Peter Gustafsson, Olivera Werngren, Albert Busch, Suzanne Eken, Changyan Sun, Göran K Hansson, Gabrielle Paulsson-Berne, Ulf Hedrin, Claes Bergmark, Lars Maegdefessel, Karolinska Institut, Stockholm, Sweden

513
Cardiovascular Risk Factors in Patients with Peripheral Arterial Disease: A Case-control Study in Popayán-Colombia
Nelson A Lopez Sr., Hosp San Jose, Popayan, Colombia

514
Development and Validation of Risk Model for Predicting Prevalence of Peripheral Artery Disease in a Low to Intermediate Risk Population
Waqas A Malik, Caron B Rockman, Yu Guo, Jinfeng Xu, Mark A Adelman, Jeffrey S Berger, NYU Sch of Med, New York, NY

515
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

516
Electromagnetic Properties of Blood-flow for Screening of Peripheral Artery Disease
Jerad Rogers, Balakumar Jayakumar, Jeremy Patterson, Kim Cluff, Wichita State Univ, Wichita, KS

518
In Vitro and in vivo Disease Modeling Using Patient Derived iPSCs to Characterize the Calcification Phenotype in Arterial Calcification Due to Deficiency of CD73
Cynthia St. Hilaire, Univ of Pittsburgh, Pittsburgh, PA; Hui Jin, Yuting Huang, Dan Yang, Alegandra Negro, Avram Malick, Yangtengyu Liu, Jean-Michel Davaine, Robin Schwartzbeck, Natl Heart, Lung, and Blood Inst, Bethesda, MD; Zhen Yu, Natl Heart, Lung, and Blood Inst, Bethesda, MD; Natalia Dmitrieva, Natl Heart, Lung, and Blood Inst, Bethesda, MD; Danielle Donahue, Natl Inst of Neurological Disorders and Stroke, Bethesda, MD; Gulbin Chen, Manfred Boehm, Natl Heart, Lung, and Blood Inst, Bethesda, MD

519
Therapeutic Angiogenesis by Peripheral Blood Mononuclear Cells and its Rational for Designing a New Trial
Kaoru Tateno, Yoshihide Fujimoto, Hiroshi Hasegawa, Tosio Nagai, Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

520
Should Bilateral Internal Thoracic Artery Grafting be Used in Patients with Peripheral Vascular Disease?
Nadav Teich, Tel Aviv Sourasky Medical Ctr, Tel-Aviv, Israel; Benjamin Medalon, Belinson Medical Ctr, Petach Tiqva, Israel; Dmitry Pevni, Rephael Mohr, Amir Kramer, Yosef Paz, Nachum Nesher, Yanai Ben-gal, Tel Aviv Sourasky Medical Ctr, Tel-Aviv, Israel

521
Janus Kinase 3 is a Novel Regulator for Smooth Muscle Proliferation and Vascular remodeling
Yung-Chun Wang, Univ of Georgia, Athens, GA

522
Cd163 Macrophage Content and Glucose Transporter-1 Expression in Aspirated Deep Vein Thrombus Are Associated With the Time After Onset
Atsushi Yamashita, Eiji Furukoji, Sayaka Moriguchi-Goto, Mio Kojima, Miyazaki Univ, Miyazaki, Japan; Chihiro Sugita, Kyusyu Univ of Health and Welfare, Nobeoka, Japan; Yuichiro Sato, Yujiro Asada, Miyazaki Univ, Miyazaki, Japan

523
Factor Xlla: New Insights on Chemical Tractability and Target Indications From A Potent and Selective Tool Inhibitor

525
Cases with Uncommon Anti-phospholipid Antibody Syndrome Developed Multifocal Vascular Disorders Such as Ischemic Ententitis, Portal Vein Thrombosis, Ischemic Heart Disease and Cerebral Infarction
Yasutaka Kawamura, Awa Regional Medical Ctr, Chiba, Japan; So Nakajo, Nobuto Hirata, Kameda Medical Ctr, Chiba, Japan

526
4-hydroxy-2-nonenal (HNE), a Lipid Peroxidation Product, Exerts Both Pro- and Anti-thrombotic Effects on Vascular Cells
Hema Kothari, Univ of Virginia Health System, Charlottesville, VA; Rit Vatsyayan, Vijaya Mohan Rao, Univ of Texas Health Science Ctr, Tyler, TX

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

527
Vorapaxar Does Not Increase Bleeding Time

528
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

This research has received full or partial funding support from the American Heart Association.
Assessing Hemostasis and Platelet Function Using a Microfluidic Device Lined with Fixed Human Endothelium

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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

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

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

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

Qing Li, Yuejin Yang, Fuwai Hosp, Beijing, China

Lymph is a Vehicle for Extracellular Vesicles in Mice

Andreea Milasen, Montreal Heart Inst, Montreal, QC, Canada; Nicolas Tessandier, Ctr de Recherche du Ctr Hospier Univire de Québec, Québec, QC, Canada; Sisareuth Tan, Alain Brisson, Inst de Chimie & Biologie des Membranes & des Nano-objets, Pessac, France; Eric Boliard, Ctr de Recherche du Ctr Hospier Univire de Québec, Quebec, QC, Canada; Catherine Martel, Montreal Heart Inst, Montreal, QC, Canada

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

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

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

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

Ryan M Allen, Shilin Zhao, Quanhao Sheng, MacRae F Linton, Kasey C Vickers, Vanderbilt Univ, Nashville, TN

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

Andrzej Wilkowski, Gary K Chan, Nancy J Li, Children's Hosp Oakland Res Inst, Oakland, CA; Rui Lu, Shinji Yokoyama, Chubu Univ, Kasugai, Japan; Giorgio Cavigiolio, Children's Hosp Oakland Res Inst, Oakland, CA

Very Low Density Lipoprotein Assembly is Required for cAMP Responsive Element-binding Protein H Processing and Heparin Apolipoprotein A-IV Expression in Mouse Models of Acute Steatosis


The Molecular Interaction of Apolipoprotein A-I Containing High Density Lipoproteins with Lecithin: Cholesterol Acyl Transferase

Allison Cooke, John T. Melchior, Jamie C. Morris, Rong Huang, Univ of Cincinnati, Cincinnati, OH; W. Gray Jerome, Vanderbilt Univ, Nashville, TN; W. Sean Davidson, Univ of Cincinnati, Cincinnati, OH

Cellular Pip2 is Effluxed By Abca1 to Apoa1 and Pip2 Is Carried on Hdl That Can be Delivered to Target Tissues via Sr-b1

Kailash Guishan, Greg Brubaker, Heather Conger, Shuhui Wang, Renliang Zhang, Stanley L Hazen, Jonathan D Smith, Cleveland Clinic, Cleveland, OH

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

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Enhancement of Rat Lymphatic Lipid Transport by Glucose Ingestion
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This research has received full or partial funding support from the American Heart Association.

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

Differential mRNA Expression is Influenced by Apolipoprotein A-I in Order to Promote Foam Cell Regression
Elisa C Maruko, Hao Xu, Sushma Kaul, Medical Coll of Wisconsin, Milwaukee, WI; Brian J Capaldo, Univ of Virginia School of Med, Charlottesville, VA; Nathalie Pamir, Oregon Health Science Univ, Portland, OR; Daniel S Lans, Milwaukee VA Medical Ctr, Milwaukee, WI; Stephen S Rich, Univ of Virginia Sch of Med, Charlottesville, VA; Michael J Thomas, Mary Sorci-Thomas, Medical Coll of Wisconsin, Milwaukee, WI

Characterization of the I4399M Variant of Apolipoprotein(a): Implications for Altered Prothrombotic Properties of Lipoprotein(a)
Jackson McAiney, Corey Scipione, Daniel Simard, James Gauld, Michael Boffa, Marlys Koschinsky, Univ Of Windsor, Windsor, ON, Canada

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

TFEB Expression, Turnover, and Nuclear Localization are Altered in DBA/2 Mouse Macrophages Associated With Impaired Autolysosome Formation and Lipid Droplet Clearance
Peggy Robinet, Jonathan D Smith, Cleveland Clinic Fndn, Cleveland, OH

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

Loss of ABCG1 Specifically in Pulmonary Type 2 Cells Results in Impaired Surfactant Lipid Metabolism
Thomas Q de Aguiar Vallim, David J. Merriott, Joan Cheng, Angela Cheng, Univ of California, Los Angeles, Los Angeles, CA; Angel Baldan, David A. Ford, Saint Louis Univ, St. Louis, MO; Christopher N. Goulbourne, Univ of Columbia, New York, NY; Elizabeth J Tarling, Univ of California, Los Angeles, Los Angeles, CA

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

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
Mei-Zhen Cui, Feng Hao, Dong An, Fuqiang Zhang, Xuemin Xu, Univ of Tennessee, Knoxville, TN

Mitochondrial Biomarkers for Assessing Early Tobacco Product Induced Cardiovascular Injury in Human Participants
Jessica L. Fetterman, Monica Holbrook, Brittany D. Berk, Robert M. Weisbrod, Elica Inagaki, Erika A. Linder, Rosa Breton-Romero, Boston Univ Sch of Med, Boston, MA; Rachel Keith, Aruni Bhatnagar, Univ of Louisville, Louisville, KY; Naomi M. Hamburg, Boston Univ Sch of Med, Boston, MA

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

The Soluble Guanylyl Cyclase Activator Bay 60-2770 Inhibits Arterial Smooth Muscle Cell Migration in Protein Kinase G-dependent Manner
Andrew Holt, Danielle Martin, Patti Shaver, Shaquria Adderley, Joshua Stone, Chintamani Joshi, Jake Francisco, Bob Lust, Brian Shewchuk, David Tullis, ECU, Greenville, NC

Pharmacological Inhibition of ADAM17 by a Human-Cross Reactive Antibody and Selective Inhibitor JG26 Prevents Vascular Fibrosis Induced by Angiotensin II in vivo and in vitro
Tatsuo Kawai, Steven J Forrester, Kunie Eguchi, Victor Rizzo, Satoru Eguchi, Temple Univ Sch of Med, Philadelphia, PA; Hang Fai Kwok, Univ of Macau, Taipa, Macau, China; Gillian Murphy, Univ of Cambridge, Cambridge, United Kingdom; Armando Rossello, Univ of Pisa, Pisa, Italy
558 FHL2 Suppresses Pulmonary Artery Endothelial Cell Proliferation Through Activation of BMP Signalling
Kondababu Kurakula, LUMC, Leiden, Netherlands; Nina Rol, Harm Jan Bogaard, VUMC, Amsterdam, Netherlands; Peter ten Dijke, Marie Jose Goumans, LUMC, Leiden, Netherlands

559 Lectin-like Oxidised Low Density Lipoprotein Receptor-1 Expression in Atheroma of Patients with Coronary Artery Disease is Higher in Patients with Acute Coronary Syndrome but Decreased in Patients on Statins
Martin Landsberger, Jens Ackermann, Stephan B Felix, Univ Med Greifswald, Greifswald, Germany; Johannes B Dahm, Heart and Vascular Ctr Neu-Bethlehem, Goettingen, Germany

560 HDAC3 Unconventional Splicing Mediates Endothelial-mesenchymal Transition in Cardiac Fibrosis
Ka Hou Lao, Dario Umarino, Ajay Shah, Lingfang Zeng, King’s Coll London, London, United Kingdom

561 Dysregulation of miR-155 in Acute Oscillatory Shear Stress (OSS)-mediated Oxidative Stress, Inflammation and Endothelial Dysfunction
Islam Mohamed, Sheena Thomas, Kimberly Rooney, Roy Sutliff, Nick Willett, Charles Searles, Emory Univ, Decatur, GA

562 Impaired Transcriptional Regulation of Nrf2 and Antioxidant Signaling in Vascular Tissue of Aging Mice
Rajesh Kumar Radhakrishnan, Gobinath Shammugam, Univ of Alabama at Birmingham, Birmingham, AL; Madhusudhanan Narasimhan, Texas Tech Univ Health Sciences Ctr, Texas, TX; Asokan Devarajan, David Geffen Sch of Med, Univ of California, CA, CA; Christopher Davidson, Univ of Utah Sch of Med, Utah, UT; Rajasekaran Namakkal Soorappan, Univ of Alabama at Birmingham, Birmingham, AL

563 Oxidized LDL Promotes Endothelial NF-kappaB Activation and Inflammation Through Focal Adhesion Kinase-dependent RSK Signaling
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This research has received full or partial funding support from the American Heart Association.

564 Inflammosome-induced Endothelial Microparticles Exert Detrimental Effects on Recipient Vascular Cells
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565 Vascular Endothelial Growth Factor - An Important Factor in HDL Binding and Transcytosis Through Aortic Endothelial Cells
Lucia Rohrer, Univ Hosp-ZH, Zurich, Switzerland; Srividya Velagapudi, Univ Hosp-ZH, Schlieren, Switzerland; Arnold von Eckardstein, Univ Hosp-ZH, Zurich, Switzerland

566 Functional Analysis of Inducible Pluripotent Stem Cell-derived Vascular Endothelial Cells From Plasminogen Activator Inhibitor-1 Deficient Patients
Hideto Sano, Yuko Suzuki, Hiroki Tanaka, Takayuki Iwaki, Tetsumei Urano, Hamamatsu Univ Sch of Med, Hamamatsu, Japan

567 Transcription Factor Runx2 is Induced in Vascular Aging and May Promote Age-related Arterial Stiffness
Isabel N Schellinger, Univ Medical Ctr Göttingen, DZHK, Goettingen, Germany; Joshua M Spin, Stanford Univ Sch of Med, Stanford, CA; Gerd Hasenfuss, Univ Medical Ctr Göttingen, DZHK, Goettingen, Germany; Philip S Tsao, Stanford Univ Sch of Med, Palo Alto, CA; Uwe Raaz, Univ Medical Ctr Göttingen, DZHK, Goettingen, Germany

568 Deletion of AMP-activated Protein Kinase-alpha Triggers Mitochondrial Fission and Endothelial Dysfunction
Qqilong Wang, Zhonglin Xie, Huapings Zhu, Ye Ding, Ming-Hui Zou, Georgia State Univ, Atlanta, GA
This research has received full or partial funding support from the American Heart Association.

569 Constitutively Active Notch4 Receptor Promotes Flow-induced Arterial Outward Remodeling
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This research has received full or partial funding support from the American Heart Association.

570 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

571 Non-reversed Increase In Shear Stress Magnitude Enhances Global Endothelial Cell Dna Methylation And Limits Extent of Collateral Artery Growth Following Femoral Arterial Ligation
Joshua L Heuslein, Richard J Price, Univ of Virginia, Charlottesville, VA

572 Inhibition of MicroRNA-199a-5p Enhances Perfusion Recovery and Arteriogenesis Following Femoral Arterial Ligation
Joshua L. Heuslein, Richard J. Price, Univ of Virginia, Charlottesville, VA
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573 Vibrational Spectroscopy Discriminates Differentiated Vascular Smooth Muscle Cells From Mesenchymal Stem Cells and Their Vascular Progeny

Claire Molony, Mariana Di Luca, Dublin City Univ, Dublin, Ireland; Jennifer McIntyre, Dublin Inst of Technology, Dublin, Ireland; Bryan Hennelly, Maynooth Univ, Maynooth, Ireland; Hugh J Byrne, Dublin Inst of Technology, Dublin, Ireland; Paul A Cahill, Dublin City Univ, Dublin, Ireland

574 A Role for TWIST1 as GWAS Risk Gene for Coronary Artery Disease

Sylvia T Nurnberg, Stephanie Testa, Joebert Rosal, Susannah Elwyn, Wei Zhao, Daniel J Rader, Univ of Pennsylvania, Philadelphia, PA

575 Acute Exposure to Apolipoprotein AI Inhibits Macrophage and Macrophage Chemotaxis in vitro and Recruitment in vivo


576 The Role of Adipose Derived Autotaxin on Inflammation Associated with Cardiovascular Disease

Jason A Brandon, Julia Vandra, Margo Ubele, Susan Smyth, Univ of Kentucky, Lexington, KY

577 Identifying the Human B Cell Population That Produces Atheroprotective Natural Antibodies

Claire M Buchta, Chantel C McSkimming, Angela M Taylor, Coleen A McNamara, Univ of Virginia, Charlottesville, VA

578 Na/K-ATPase Forms a Signaling Complex with CD36 and Toll-like Receptor 4 to Mediate NF-kappaB Activation in Macrophages

Yiliang Chen, Wenxin Huang, Moua Yang, Roy Silverstein, Blood Res Inst of Wisconsin, Milwaukee, WI

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

579 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

580 Lutein Reduces Inflammation in Patients With Coronary Artery Disease by Suppressing Cytokine and Matrix Metalloproteinase-9 Secretion From Peripheral Blood Mononuclear Cells

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

581 Divergent Roles for Mertk and Axl in Resident Vs Recruited Phagocytes After Reperfusion of Ischemic Hearts

Matthew DeBerge, Xin Yi Yeap, Daniel Procissi, Northwestern Univ, Chicago, IL; Ira Tabas, Columbia Univ, New York, NY; Edward Thorp, Northwestern Univ, Chicago, IL

582 Overexpression of Catalase Impairs Aortic Valve Function and Accelerates Valvular Calcification in Mice

Caitlin C Fermoyle, Carolyn M Roos, Grace Casacalang-Verzosa, Bin Zhang, Jordan D Miller, Mayo Clinic, Rochester, MN

583 Post-infarct Survival Depends on the Interplay of Monocytes, Neutrophils And Interferon Gamma in a Mouse Model of Myocardial Infarction

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

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

584 Smooth Muscle Cell-derived IL-17C Plays an Atherogenic Role via the Recruitment of Pro-inflammatory IL-17A+ T Cells to the Aorta

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

585 Endothelial Cells from Adipose Tissue of Obese Humans Display Mesenchymal Characteristics

Bronson A Haynes, Eric J Lehrer, Giann J Bhatt, Ryan W Huyck, Ashley N James, Anca D Dobrian, Eastern Virginia Medical Sch, Norfolk, VA

587 Specific Deletion Of α1 AMPK-activated Protein Kinase in Myeloid Cells Aggravates Endothelial Dysfunction and Increases Vascular Inflammation In Angiotensin II Treated Lysmcre; α1 AMPK Mice

Thomas Jansen, Svenja Kröller-Schön, Eberhard Schulz, Thomas Münzel, Univmedizin Mainz, Mainz, Germany

588 Glyc-A, a Novel Inflammatory Biomarker, is Associated with Total and Non-Calciﬁed Coronary Plaque Burden Beyond Traditional Cardiovascular Risk Factors

Aditya A Joshi, Joseph B Lerman, Tzion M Aberra, Mohammad Tarek Kabbany, Heather L Teague, Joanna I Silverman, Qimin Ng, Tarek Z Ariid, Yvonne Baumer, Taufiq S Salahuddin, Marcus Y Chen, David A Blumke, Justin Rodante, Natt Heart, Lung and Blood Inst, Bethesda, MD; Joel M Gelfand, Univ of Pennsylvania, Philadelphia, PA; Martin P Playford, Nehal N Mehta, Anca D Dobrian, Eastern Virginia Medical Sch, Norfolk, VA

589 Gut Microbiota in the Development of Angiotensin II Driven Arterial Hypertension and Vascular Dysfunction in Mice

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

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

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

Vascular Inflammation and Hypertension are Attenuated with T Cell Deletion of Serum and Glucocorticoid-regulated Kinase 1 (SGK1)

Allison E Norlander, Mohamed A Saleh, Arvind Pandey, Hana A Itani, Vanderbilt Univ, Nashville, TN; Jing Wu, Univ of Iowa, Iowa City, IA; Bethany Dale, David G Harrison, Meena S Madhur, Vanderbilt Univ, Nashville, TN

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

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

Kaitlyn Rinehold, Coen vanSolingen, Elizabeth J. Hennessy, Kathryn J. Moore, NYU Medical Ctr, New York, NY

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

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

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

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

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

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

Hong 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

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

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

Plasma Carnitine is Associated with Gut Microbiome Composition, Diet, and Markers of Cardiometabolic Health

Holly M Smith, Vanderbilt Univ Medical Ctr, Nashville, TN; Muredach P Reilly, Univ of Pennsylvania, Philadelphia, PA; **Jane F Ferguson**, Vanderbilt Univ Medical Ctr, Nashville, TN

Ineffective Suppression of Adipocyte Lipolysis in Metabolic Syndrome: An in vivo Test for Adipocyte Insulin Resistance

**Jennifer Lynn Ford**, The Pennsylvania State Univ, University Park, PA; Raymond C Boston, Univ of Pennsylvania Sch of Veterinary Med, New Bolton Center, PA; Rachel E Walker, Gregory C Shearer, The Pennsylvania State Univ, University Park, PA

Targeting IκB Kinase β in Adipocyte Lineage Cells for Treatment of Obesity and Metabolic Dysfunctions


Cardiovascular Disease Prevalence and Risk Factors in Japanese and American Populations

**Hiroaki Ikezaki**, Human Nutrition Res Ctr on Aging at Tufts Univ, Boston, MA; Masumi Ai, Tokyo Medical and Dental Univ, Tokyo, Japan; Ernst Schaefer, Human Nutrition Res Ctr on Aging at Tufts Univ, Boston, MA; Seiko Otokozawa, Sapporo Medical Univ Sch of Med, Sapporo, Japan; Bela Asztalos, Human Nutrition Res Ctr on Aging at Tufts Univ, Boston, MA; Katsuuyuki Nakajima, Gunma Univ, Maebashi, Japan; Yanzhu Zhou, Cheng-Ti Liu, Boston Univ Sch of Public Health, Boston, MA; Paul Jacques, Human Nutrition Res Ctr on Aging at Tufts Univ, Boston, MA; L Adrienne Cupples, Boston Univ Sch of Public Health, Boston, MA; Norihiro Furusyo, Kyushu Univ, Fukuoka, Japan

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

TRAIL Deletion in Mice Promotes Vascular Insulin Resistance

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Association Between Multiple Modifiable Risk Factors of Cardiometabolic Disease and Hypertension in a Rural Population of the United States

**Hadid M Mamudu**, Timir Paul, Liang Wang, Sreenivas P. Veeranki, Hemang B Panchal, Arsham Alamian, Pooja Subedi, Matthew Budoff, East Tennessee State Univ, Johnson City, TN

MicroRNA miR-29b is a Mediator of Aortic Stiffness and Hypertension in a Murine Model of Type 2 Diabetes Mellitus

**Uwe Raaz**, Isabel N Schellinger, Univ Medical Ctr Göttingen, DZHK, Goettingen, Germany; Lars Maegdefessel, Karolinska Inst, Stockholm, Sweden; Joshua M Spin, Stanford Univ Sch of Med, Stanford, CA; Gerd Hasenfuss, Univ Medical Ctr Göttingen, DZHK, Goettingen, Germany; Philip S Tsao, Stanford Univ Sch of Med, Palo Alto, CA

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 Stabliey, UT Southwestern Medical Ctr, Dallas, TX; Bart Williams, Van Andel Res Inst, Grand Rapids, MI; **Dwight A Towler**, UT Southwestern Medical Ctr, Dallas, TX

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

Targeted Delivery of microRNA-146a-181b Protects Against Endothelial Dysfunction and Prevents Atherosclerosis

**Wing Tak Wong**, Shuangtao Ma, Houston Methodist Res Inst, Houston, TX; Yu Huang, Xiaoyu Tian, Chinese Univ of Hong Kong, Hong Kong, Hong Kong

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

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

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

High-density Lipoprotein Cholesterol Efflux Does Not Predict Cardiovascular Risk in Hemodialysis Patients

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Vienna, Vienna, Austria; Uwe J Tietje, Univ Medical Ctr of Groningen, Groningen, Netherlands

623
Effect of High-intensity Statin Therapy on High-density Lipoprotein (HDL) Subfractions and Regression of Coronary Atheroma: The SATURN Trial
Ron C Hoogeveen, Baylor Coll of Med, Houston, TX; Mingyuan Shao, Kathy Wolski, Rishi Puri, Cleveland Clinic, Cleveland, OH; Christie M Ballantyne, Baylor Coll of Med, Houston, TX; Stephen J Nicholls, Cleveland Clinic, Cleveland, OH

624
Endothelial Scavenger Receptor Class B, Type I (SR-BI) Mediates LDL Uptake by the Artery Wall and Promotes Atherosclerosis in Hypercholesterolemic Mice
Linzhang Huang, Ken Chambliss, Mohamed Ahmed, Chieko Mineo, Philip W Shaul, UT Southwestern Medical Ctr, Dallas, TX

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

625
Targeting of Heparin Binding EGF-like Growth Factor (HBEGF) Suppresses Hyperlipidemia and Atherosclerosis in LDL Receptor Deficient Mice
Sangdeok Lee, Univ of Kentucky, Lexington, KY; Richard Lee, Mark Graham, Ionis Pharmaceuticals, Carlsbad, CA; Lihua Yang, Seonwook Kim, Seongu Kim, Debra Rateri, Ryan Temel, Univ of Kentucky, Lexington, KY; Aldons Lusis, Judith Berliner, UCLA, Los Angeles, CA

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

626
Oxidized Low-density Lipoprotein-induced Cell Membrane Damage in Bone Marrow Stem Cells is Independent of ROS Formation
Xin Li, Yuqi Cui, Tao Tan, The Ohio State Univ Medical Ctr, Columbus, OH; Chandrakala Narasimhulu, Univ of Central Florida Coll of Med, Orlando, FL; Yuan Xiao, Jia Zhang, Hong Hao, Lingjuan Liu, Jianjue Ma, The Ohio State Univ Medical Ctr, Columbus, OH; Catherine Verfaillie, Univ of Leuven, Leuven, Belgium; Sampath Parthasarathy, Univ of Central Florida Coll of Med, Orlando, FL; Hua Zhu, Zhenguo Liu, The Ohio State Univ Medical Ctr, Columbus, OH

627
Novel Nanoparticles Berberine Chloride Oral Delivery Approaches Targeting PCSK9
Chinedu C Ochin, Mahdi Garelnabi, Univ of Massachusetts Lowell, Lowell, MA

628
Efficient Excretion of Xenosterols in the Absence of Abcg5/Abcg8
Shailendra B Patel, Univ of Cincinnati, Cincinnati, OH

629
FGF15/19 Upregulates Hepatic ABCG5 and ABCG8 to Promote Biliary Cholesterol Secretion
Sonja Pijut, Yuhuan Wang, Lisa Bennett, Univ of Kentucky, Lexington, KY; Richard Lee, Ionis Pharmaceuticals, Carlsbad, CA; Gregory Graf, Univ of Kentucky, Lexington, KY

630
Novel Chimeric Anti-proteoglycan Antibody Inhibits Arterial Retention of Proatherogenic Lipoproteins in a Rat Model of Insulin Resistance
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631
Proteomic Characterization of Apolipoprotein A-II Defined Subfractions of Human High Density Lipoproteins
Scott E Street, John T Melchior, Univ of Cincinnati, Cincinnati, OH; Amy S. Shah, Cincinnati Children's Hosp Medical Ctr, Cincinnati, OH; W. Sean Davidson, Univ of Cincinnati, Cincinnati, OH

632
Modification of HDL by ω-Ketoaldehyde Causes impaired HDL Function in Familial Hypercholesterolemia
Huan Tao, Patricia G. Yancey, Jiansheng Huang, John L. Blakemore, Youmin Zhang, Lei Ding, Vanderbilt Univ Sch of Med, Nashville, TN; Sergio Fazio, Oregon Health and Science Univ, Portland, OR; Kasey C. Vickers, John A. Oates, L. Jackson Roberts II, Sean S. Davies, MacRae F. Linton, Vanderbilt Univ Sch of Med, Nashville, TN

633
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

634
Silencing miR144 Enhances Regression and Attenuates Progression of Atherosclerosis
Elizabeth Tarling, Joan Cheng, Angela Cheng, Peter Tontonoz, Tamer Sallam, Thomas Vallim, UCLA, Los Angeles, CA

635
Cholesterol Loading Increases the Size and Cholesterol Content of Nascent HDL Formed via the Interaction of Apolipoprotein AI with Cellular ABCA1
Bingqing Xu, Houston Methodist Res Inst, Houston, TX; James Michael Bell, Baylor Coll of Med, Houston, TX; Baiba K Gillard, Antonio M Gotto Jr, Henry J Pownall, Houston Methodist Res Inst, Houston, TX

636
Accelerated Atherosclerosis in the Context of Rheumatoid Arthritis
Alexandra Bäcklund Bäcklund, Martina Johansson, Massimiliano Ria, Daniel F Ketelhuth, Panagiota Tsikrika, Ekaterina Chernogubova, Hong Jin, Johan Bäcklund, Per Eriksson, Lars Maegdefessel, Rikard Holmdahl, Göran K Hansson, Anders Hamsten, Karolinska Inst, Stockholm, Sweden

637
Allograft Inflammatory Factor 1 Promotes Macrophage Functions that Limit Plaque Destabilization
Prameladevi Chinnaasamy, Isabel Casimiro, Lander Egaña Gorroño, Nicholas Sibinga, Albert Einstein Coll of Med, Bronx, NY
638
Response Gene to Complement 32 Promotes Atherosclerosis Through Endothelial Cell Dysfunction Induced Vascular Inflammation
Xiaobing Cui, Junna Luan, Shiyou Chen, The Univ of Georgia, Athens, GA

639
Deletion of Alternately Spliced Extra Domain A of Cellular Fibronectin Stabilizes Advanced Rupture-Prone Plaques in Hyperlipidemic Mice
Prakash Duddapattar, Nirav Dhanesha, Prem Prakash, Steven R Lentz, Anil K Chauhan, Hematology, Oncology and Blood and Marrow Transplantation, Iowa City, IA

640
Genetic Inactivation of Col15a1 in Smooth Muscle Cells Decreases Plaque Size and Decreases Indices of Plaque Stability
Brittany D Durgin, Olga A Cherepanova, Gary K Owens, Jessica J Connelly, Univ of Virginia, Charlottesville, VA

641
The Role of Interleukin-23 in the Development of Atherosclerosis
Aliia Fatkullina, Iuliiia Peshkova, Ekaterina Koltsova, Fox Chase Cancer Ctr, Philadelphia, PA

643
Type-2 Cannabinoid Receptor Deficiency is Associated with Atherosclerotic Lesion Calcification in Ldlr-null Mice
Makenzie L Fulmer, Emilee Englehaup, Quillen Coll of Med, Johnson City, TN; Chris Garst, Stacy Brown, Gatton Coll of Pharmacy, Johnson City, TN; Douglas Thewke, Quillen Coll of Med, Johnson City, TN

644
Cd27 Co-stimulation Fosters Regulatory T Cell Survival and Ameliorates Atherosclerosis
Norbert Gerdes, Holger Winkels, Ludwig-Maximilians Univ Munich, Munich, Germany; Esther Smeets, Academic Medical Ctr, Univ of Amsterdam, Amsterdam, Netherlands; Svenja Meiler, Christina Bürger, Christian Weber, Esther Lutgens, Ludwig-Maximilians Univ Munich, Munich, Germany

645
Curcumin Modulates the Function(s) of Intestinal Epithelial Cells: Role in the Development of Diet-Induced Metabolic Diseases
Jing Wang, Siddhartha S Ghosh, Shobha Ghosh, Virginia Commonwealth Univ, Richmond, VA

646
Redox Control of Macropinocytosis; An Unexplored Target in Atherosclerosis
Pushpankur Ghoshal, Bhupesh Singla, Augusta Univ, Augusta, GA; Douglas Feck, Nadiezsha Cantu-Medellin, Eric Kelley, Univ of Pittsburgh, Pittsburgh, PA; Stephen Haigh, David Fulton, Gábor Csányi, Augusta Univ, Augusta, GA

647
Induction of Cardiovascular Calcification in Non-transgenic Mice via a Single Injection of Pcsk9 Adeno-associated Viral Vector
Claudia Goettsch, Joshua Hutcheson, Sumihiko Hagita, Maximillian Rogers, Jung Choi, Michael Creager, Tan Pham, Andrew Mlynarchik, Brigham and Women's Hosp, Harvard Medical Sch, Boston, MA; Mads Fuglsang Kjolby, Aarhus Univ, Aarhus, Denmark; Masanori Aikawa, Elena Aikawa, Brigham and Women's Hosp, Harvard Medical Sch, Boston, MA

648
Alternative Macrophages Promote Atherosclerosis Progression by Increasing Intraplaque Angiogenesis and Vascular Permeability via HIF-1alpha/VEGF-A-dependent Pathway
Liang Guo, CVPath Inst, Gaithersburg, MD; Hirokuni Akahori, Rohini Polavarapu, Emory Univ, Atlanta, GA; Emanuelli Harari, CVPath Inst, Gaithersburg, MD; Vinit Karmali, Emory Univ, Atlanta, GA; Adrienne L. King, Kennesaw State Univ, Kennesaw, GA; Cheol Ung Choi, Korea Univ, Seoul, Korea, Republic of; Qi Cheng, CVPath Inst, Gaithersburg, MD; Hanjoong Jo, Salim Thabet, Emory Univ, Atlanta, GA; Frank Koldogie, Renu Virmani, Alok V Finn, CVPath Inst, Gaithersburg, MD

649
Knockout of the Ath26 Quantitative Trait Locus Candidate Gene Cyp4f13 Decreases Atherosclerosis in DBA/2 ApoE-Deficient Mice
Juying Han, Peggy Robinet, Stela Berisha, Brian Ritchey, Jonathan D Smith, Cleveland Clinic, Cleveland, OH

650
Statins Modulate Rac-dependent IL-1 beta Expression to Influence Calcium Composition
Lina Zhao, Abigail L Healy, Nicolle Ceneri, Grant Bailey, Judith Meadows, Mehran Sadeghi, Alan R Morrison, Yale Univ Sch of Med, New Haven, CT

651
Autophagic Cholesterol Metabolism in Macrophages with Lysosome Dysfunction
Courtney Netherland-Van Dyke, Carrie E Romer, W G Jerome, Vanderbilt Univ, Nashville, TN

652
Coronary Angioscopic Observation of Extremely Late Arterial Repair Catch-up after Sirolimus-eluting Stent Implantation
Minoru Ichikawa, Kazunori Bando, Yoshiyuki Kijima, Higashi-Osaka City Gen Hosp, Osaka, Japan

653
Development of Advanced Atherosclerotic Plaque by Injection of Inflammatory Proteins in Mini-pig Model
Seulgee Lee, Jung-Sun Kim, Yonsei Univ, Seoul, Korea, Republic of

654
Loss of SPRR3 In ApoE-/- Mice Leads to Increased Atheroma Vulnerability and Evidence of Plaque Rupture and Cardiac Infarcts
Amanda K Segedy, Bin Li, Caressa D Lietman, MacRae F Linton, Pampee P Young, Vanderbilt Univ Medical Ctr, Nashville, TN

655
Rac2 is a Key Modulator of IL-1β -dependent Atherosclerotic Plaque Calcification
In Vivo Plaque Inflammation and Endothelial Permeability Independently Predict Atherosclerosis Progression: A Serial Multimodality Imaging Study

Eric A Osborn, Giovanni J Ughi, Massachusetts General Hosp, Boston, MA; Johan W Verjans, Univ Medical Ctr Utrecht, Utrecht, Netherlands; Edouard Gerbaud, Richard A Takh, Ahmed Tawakol, Guillermo J Tearney, Farouc A Jaffer, Massachusetts General Hosp, Boston, MA

PDGF versus Fructose Dysregulation of Insulin Receptor Signaling in Vascular Smooth Muscle Cells: Pioglitazone-mediated Sensitization of Insulin Receptor Signaling is Associated with Diminished Vascular Smooth Muscle Cell Proliferation

Islam Osman, Lakshman Segar, UGA, Augusta, GA

Unraveling the Controversy of Bisphosphonates as Vascular Calcification Therapy Using a Nanoanalytical Approach

Jessica L Ruiz, Joshua D Hutcheson, Elena Aikawa, Brigham and Women's Hosp, Boston, MA

Macrophage Beta3 Integrin Deficiency Promotes Atherosclerosis Development Through ERK-Dependent Signaling

Cristina Wolf, Ellen Damm, Univ of Luxembourg, Esch, Luxembourg, Luxembourg; Berend Isermann, Medical Faculty, Otto-von-Guericke-Univ, Magdeburg, Germany; Clay Semenkovich, Katherine Weilbaecher, Washington Univ Sch of Med, St. Louis, MO, MO; Jochen G Schneider, Univ of Luxembourg&Saarland Univ Medical Ctr&Ctr Hospier Emile Mayrisch, Esch, Luxembourg, Luxembourg

Macrophage Specific Deficiency of the Transient Receptor Potential Canonical 3 Channel Reduces Apoptosis and Necrosis in Advanced Atherosclerotic Plaques

Sumeet A Solanki, Guillermo Vazquez, Univ of Toledo, Toledo, OH

Bilirubin Prevents Atherosclerotic Plaque Formation in LDLR-/- Mice by Inhibiting Monocyte Migration Through the Disruption of Endothelial Vascular Cell Adhesion Molecule 1 (VCAM-1) and Intercellular Adhesion Molecule 1 (ICAM-1) Signaling

Megan E Vogel, Gila Idelman, Stephen D Zucker, Univ of Cincinnati, Cincinnati, OH

This research has received full or partial funding support from the American Heart Association.
Next year’s conference: May 4–6, 2016 ... visit my.americanheart.org for more information.
<table>
<thead>
<tr>
<th>Author Index (continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wu, Jing .......................... 201</td>
</tr>
<tr>
<td>Wennmendul, Holger ............ 303</td>
</tr>
<tr>
<td>Wen, Ayun .......................... 257</td>
</tr>
<tr>
<td>Wenzel, Philip .................. 161, 343, 531, .............................. 583, 589</td>
</tr>
<tr>
<td>Werfel, Thomas A. ............. 12</td>
</tr>
<tr>
<td>Werner, Nikos .................... 564</td>
</tr>
<tr>
<td>Werngren, Olivera ............. 512</td>
</tr>
<tr>
<td>West, Gabrielle .................. 144</td>
</tr>
<tr>
<td>West, James ...................... 148</td>
</tr>
<tr>
<td>White, Gemma E. ................ 575</td>
</tr>
<tr>
<td>Wickline, Samuel A. .......... 141</td>
</tr>
<tr>
<td>Wickramasinghe, Nalinie ....... 263</td>
</tr>
<tr>
<td>Wesenekker, Chantal .......... 56</td>
</tr>
<tr>
<td>Wijekath, Errol S. ............. 144</td>
</tr>
<tr>
<td>Widnauer, René .................. 333</td>
</tr>
<tr>
<td>Wilhel, Ashley .................. 193, 244</td>
</tr>
<tr>
<td>Wilhelm, Jean ........................ 128</td>
</tr>
<tr>
<td>Wilhelm, Ashley ................. 264</td>
</tr>
<tr>
<td>Wilkinson, Michael J. .......... 235</td>
</tr>
<tr>
<td>Willett, Nick ..................... 561</td>
</tr>
<tr>
<td>William, Dempsey ............... 332</td>
</tr>
<tr>
<td>Williams, Bart ................... 420, 617</td>
</tr>
<tr>
<td>Williams, Jesse W. ............. 162</td>
</tr>
<tr>
<td>Williamson, Nicholas .......... 171</td>
</tr>
<tr>
<td>Wilms, Evor ........................ 589</td>
</tr>
<tr>
<td>Wilson, Andrew .................. 171</td>
</tr>
<tr>
<td>Wilson, Andrew M. .............. 220</td>
</tr>
<tr>
<td>Wilson, David R. ............... 174</td>
</tr>
<tr>
<td>Wilson, Joel ....................... 235</td>
</tr>
<tr>
<td>Wilson, Peter W. F. ............ 109</td>
</tr>
<tr>
<td>Wilson-O’Brien, Amy L. ....... 171, 220</td>
</tr>
<tr>
<td>Winkels, Holger .................. 240, 644</td>
</tr>
<tr>
<td>Winer, Milicord G. ............. 263</td>
</tr>
<tr>
<td>Wittkowski, Andrzej .......... 539</td>
</tr>
<tr>
<td>Witzum, Joseph L. .............. 153, 361</td>
</tr>
<tr>
<td>Wojtkiewicz, Gregory R. ...... 35</td>
</tr>
<tr>
<td>Wolf, Cristina .................... 659</td>
</tr>
<tr>
<td>Wolf, Dennis ..................... 21, 351, 362, 587</td>
</tr>
<tr>
<td>Woloski, Kathy ................... 623</td>
</tr>
<tr>
<td>Wolters, Henk .................... 424</td>
</tr>
<tr>
<td>Wong, Jin Hak ........................ 8</td>
</tr>
<tr>
<td>Wong, Jorge ....................... 504</td>
</tr>
<tr>
<td>Wong, Norman C. W. .......... 163</td>
</tr>
<tr>
<td>Wong, Wing Tak .................. 22, 618</td>
</tr>
<tr>
<td>Wood, Jeremy P. ................ 43</td>
</tr>
<tr>
<td>Woods, T. Cooper ................ 110</td>
</tr>
<tr>
<td>Woolard, Matthew D. ........... 663</td>
</tr>
<tr>
<td>Woollcott, Laura A. .......... 201</td>
</tr>
<tr>
<td>Wrisko, Rebecca E. ............ 527</td>
</tr>
<tr>
<td>Wrobleski, Joanne M. .......... 398</td>
</tr>
<tr>
<td>Wu, Bian .......................... 31, 314</td>
</tr>
<tr>
<td>Wu, Hao ........................... 239, 257, 607</td>
</tr>
<tr>
<td>Wu, Huazhu .................... 664, 665</td>
</tr>
<tr>
<td>Wu, Jianbo ....................... 221, 536</td>
</tr>
<tr>
<td>Wu, Jing .......................... 593, 7</td>
</tr>
<tr>
<td>Wu, Tong .......................... 253, 544</td>
</tr>
<tr>
<td>Wu, Weichen .................... 523</td>
</tr>
<tr>
<td>Wu, Wenchonghua ............... 451</td>
</tr>
<tr>
<td>Wysoczynski, Mark .......................... 263</td>
</tr>
<tr>
<td>Wysokinski, Waldemar ........ 330</td>
</tr>
<tr>
<td>Wytoch, Daniel J. ............ 103</td>
</tr>
<tr>
<td>Xia, Lijun ......................... 57</td>
</tr>
<tr>
<td>Xiang, Binggang ............... 55</td>
</tr>
<tr>
<td>Xiao, Lamei ...................... 221, 536</td>
</tr>
<tr>
<td>Xiao, Liang ........................ 7</td>
</tr>
<tr>
<td>Xiao, Yuan ....................... 627</td>
</tr>
<tr>
<td>Xie, Alison X. .................. 381</td>
</tr>
<tr>
<td>Xie, Dan ........................... 46</td>
</tr>
<tr>
<td>Xie, Ping ........................... 55</td>
</tr>
<tr>
<td>Xie, Yi .............................. 176</td>
</tr>
<tr>
<td>Xie, Zhengzhi .................... 132</td>
</tr>
<tr>
<td>Xie, Zhonglin ..................... 588</td>
</tr>
<tr>
<td>Xin, Liang ....................... 40</td>
</tr>
<tr>
<td>Xu, Baozhong ..................... 107, 301</td>
</tr>
<tr>
<td>Xu, Bingqin ...................... 635</td>
</tr>
<tr>
<td>Xu, Hao .............................. 50, 545</td>
</tr>
<tr>
<td>Xu, Jing ......................... 38, 514</td>
</tr>
<tr>
<td>Xu, Jing-Jing .................... 528</td>
</tr>
<tr>
<td>Xu, Jingting ...................... 339</td>
</tr>
<tr>
<td>Xu, Meng ........................... 39</td>
</tr>
<tr>
<td>Xu, Suowen ....................... 164</td>
</tr>
<tr>
<td>Xu, Xiaohong ..................... 140</td>
</tr>
<tr>
<td>Xu, Xue ............................. 328</td>
</tr>
<tr>
<td>Xue, Yinheng ...................... 112</td>
</tr>
<tr>
<td>Xue, Zhanlin ...................... 329</td>
</tr>
<tr>
<td>Xuan, Haqiong .................... 107</td>
</tr>
<tr>
<td>Xuan, Lijiang .................... 140</td>
</tr>
<tr>
<td>Xue, Chao ........................... 382</td>
</tr>
<tr>
<td>Xue, Yinheng ...................... 112</td>
</tr>
<tr>
<td>Xue, Yinheng ...................... 208</td>
</tr>
<tr>
<td>Yabuklenko, Valentin ........ 40</td>
</tr>
<tr>
<td>Yamaguchi, Fumihiro .......... 361</td>
</tr>
<tr>
<td>Yamaguchi, Satoshi ............ 236</td>
</tr>
<tr>
<td>Yamanocho, Dai .................. 173</td>
</tr>
<tr>
<td>Yamashita, Atsushi .......................... 343, 336, 522</td>
</tr>
<tr>
<td>Yamashita, Shizuya ............ 395, 602</td>
</tr>
<tr>
<td>Yan, Siyuan ....................... 177</td>
</tr>
<tr>
<td>Yan, Yan ............................ 327</td>
</tr>
<tr>
<td>Yan, Zhongguan ................ 149</td>
</tr>
<tr>
<td>Yancey, Patricia .......................... 48, 96, 632, 633</td>
</tr>
<tr>
<td>Yang, Dan .......................... 518</td>
</tr>
<tr>
<td>Yang, Hualin ...................... 112</td>
</tr>
<tr>
<td>Yang, Junyao ..................... 186</td>
</tr>
<tr>
<td>Yang, Kevin ...................... 509</td>
</tr>
<tr>
<td>Yang, Lihua ....................... 809</td>
</tr>
<tr>
<td>Yang, Ling .......................... 430</td>
</tr>
<tr>
<td>Yang, Liping ...................... 430</td>
</tr>
<tr>
<td>Yang, Moua .......................... 576</td>
</tr>
<tr>
<td>Yang, Pu ............................ 309, 398</td>
</tr>
<tr>
<td>Yang, Quhua ....................... 177</td>
</tr>
<tr>
<td>Yang, Xia .......................... 384, 58, 662</td>
</tr>
<tr>
<td>Yang, Xinai ...................... 301</td>
</tr>
<tr>
<td>Yang, Yan ........................... 221, 536</td>
</tr>
<tr>
<td>Yang, Youfeng ................... 383</td>
</tr>
<tr>
<td>Yang, Yuejin ...................... 532</td>
</tr>
<tr>
<td>Yang, Zhi-Hong .................. 266</td>
</tr>
<tr>
<td>Yano, Juliana ..................... 150, 350</td>
</tr>
<tr>
<td>Yao, Yi ............................... 339, 528</td>
</tr>
<tr>
<td>Yarovichinsky, Timur O. ...... 655</td>
</tr>
<tr>
<td>Yates, Nathan A. ................ 17</td>
</tr>
<tr>
<td>Yeang, Calvin .......................... 235, 381, 399</td>
</tr>
<tr>
<td>Yeap, Xin Yi ...................... 581</td>
</tr>
<tr>
<td>Yedlapati, Siva Harsha ........ 108</td>
</tr>
<tr>
<td>Yee, Jimmy ....................... 456</td>
</tr>
<tr>
<td>YEH, Edward T.H. ................ 8</td>
</tr>
<tr>
<td>Yelamanchili, Dedipya ........ 429</td>
</tr>
<tr>
<td>Yerges-Armstrong, Laura M. ... 32</td>
</tr>
<tr>
<td>Yin, Hao ............................. 504</td>
</tr>
<tr>
<td>Yin, Memei ....................... 164</td>
</tr>
<tr>
<td>Yilmaz, Yusuf ..................... 441</td>
</tr>
<tr>
<td>Yoder, Mervin C. ............... 168</td>
</tr>
<tr>
<td>Yokoyama, Shinya ................ 539</td>
</tr>
<tr>
<td>Yoo, Hongki ....................... 225, 352</td>
</tr>
<tr>
<td>Yoo, Hyung-Jin .......................... 24</td>
</tr>
<tr>
<td>Youn, J Youn ...................... 380</td>
</tr>
<tr>
<td>Young, Bryan D. .................. 655</td>
</tr>
<tr>
<td>Young, Mark ....................... 102</td>
</tr>
<tr>
<td>Young, Pampe P .................. 654</td>
</tr>
<tr>
<td>Young, Patricia .................. 142</td>
</tr>
<tr>
<td>Younger Burge, Kathryn ........ 189, 619</td>
</tr>
<tr>
<td>Yu, Dan .............................. 180</td>
</tr>
<tr>
<td>Yu, Esther ......................... 210</td>
</tr>
<tr>
<td>Yu, Han .............................. 385</td>
</tr>
<tr>
<td>Yu, Jun .............................. 20</td>
</tr>
<tr>
<td>Yu, Zhen ............................ 518</td>
</tr>
<tr>
<td>Yue, Zuooren ..................... 23</td>
</tr>
<tr>
<td>Yuan, Jin-Qing ................... 528</td>
</tr>
<tr>
<td>Yuan, Jing ......................... 339</td>
</tr>
<tr>
<td>Yuan, Shuai ....................... 570</td>
</tr>
<tr>
<td>Yuan, Wemnin .................... 223</td>
</tr>
<tr>
<td>Yuan, Xia ........................... 159</td>
</tr>
<tr>
<td>Yuan, Yu ............................ 619</td>
</tr>
<tr>
<td>Yue, Junming ..................... 167</td>
</tr>
<tr>
<td>Yurdagul, Arif .................... 563, 570</td>
</tr>
<tr>
<td>Zanoni, Paolo ................... 17</td>
</tr>
<tr>
<td>Zarich, Stuart ................... 407</td>
</tr>
<tr>
<td>Zayed, Mohamed A. ............ 222, 327</td>
</tr>
<tr>
<td>Zehner, Zenda E. ............... 430</td>
</tr>
<tr>
<td>Zeiler, Andreas M. ............ 19, 6</td>
</tr>
<tr>
<td>Zeng, Lingfang ................... 186, 560</td>
</tr>
<tr>
<td>Zeng, Xueqi ....................... 17</td>
</tr>
<tr>
<td>Zettavera, Sara L. .......... 125, 370</td>
</tr>
<tr>
<td>Zhai, Zhenhua .................... 598</td>
</tr>
<tr>
<td>Zhan, Chang-Guo .................. 159</td>
</tr>
<tr>
<td>Zhang, Bin .......................... 259, 384, 582</td>
</tr>
<tr>
<td>Zhang, Chao ....................... 451</td>
</tr>
<tr>
<td>Zhang, Dian ....................... 140</td>
</tr>
<tr>
<td>Zhang, Fuqiang ................... 553</td>
</tr>
<tr>
<td>Zhang, Guoying .................. 55</td>
</tr>
<tr>
<td>Zhang, Hanrui ..................... 157</td>
</tr>
<tr>
<td>Zhang, Heng ....................... 598</td>
</tr>
<tr>
<td>Zhang, Jia .......................... 626</td>
</tr>
<tr>
<td>Zhang, Jia-Hui .................... 528</td>
</tr>
</tbody>
</table>

- Bolded numbers denote presenting authors.
### Program at a Glance

<table>
<thead>
<tr>
<th>Wednesday May 4, 2016</th>
<th>Thursday May 5, 2016</th>
<th>Friday May 6, 2016</th>
<th>Saturday May 7, 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am</td>
<td>Separate registration may be required for the meetings listed below.</td>
<td>0:00 am</td>
<td>Registration, Continental Breakfast, Exhibits</td>
</tr>
<tr>
<td>7:30 am</td>
<td>0:00-6:00 Vascular Research Initiative Conference 2016</td>
<td>7:00-10:00</td>
<td>Early Career Training Session</td>
</tr>
<tr>
<td>9:00 am</td>
<td>10:00-10:15 Refreshment Break/Exhibits</td>
<td>0:00-3:30</td>
<td>Conference Opening and Plenary Session I</td>
</tr>
<tr>
<td>10:30 am</td>
<td>10:00-10:15 Concurrent Session I</td>
<td>3:30-5:00</td>
<td>Registration</td>
</tr>
<tr>
<td>11:00 am</td>
<td>11:00-11:15 Refreshment Break/Exhibits</td>
<td>3:30-5:00</td>
<td>Plenary Session II Highlights from the ATVB Journal</td>
</tr>
<tr>
<td>11:30 am</td>
<td>NOON/NOON KazMet</td>
<td>3:30-5:00</td>
<td>Registration</td>
</tr>
<tr>
<td>12:30 pm</td>
<td>12:30–1:30 The Mentor of Women Award Luncheon (ticket required)</td>
<td>3:30-5:00</td>
<td>Plenary Session III</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>1:00-5:00 CAAC Symposium</td>
<td>3:30-5:00</td>
<td>Concurrent Session III</td>
</tr>
<tr>
<td>2:00 pm</td>
<td>2:00-2:30 Plenary Session II</td>
<td>3:30-5:00</td>
<td>Concurrent Session III</td>
</tr>
<tr>
<td>3:30 pm</td>
<td>3:30-5:00 Refreshment Break/Exhibits</td>
<td>3:30-5:00</td>
<td>Concurrent Session III</td>
</tr>
<tr>
<td>4:00 pm</td>
<td>4:00-6:00 ATVB/ATV Symposium</td>
<td>3:30-5:00</td>
<td>Concurrent Session III</td>
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<tr>
<td>5:00 pm</td>
<td>5:00-6:00 Registration</td>
<td>3:30-5:00</td>
<td>Concurrent Session III</td>
</tr>
<tr>
<td>7:00 pm</td>
<td>7:30-7:45 Poster Session and Reception</td>
<td>3:30-5:00</td>
<td>Concurrent Session III</td>
</tr>
<tr>
<td>8:00 pm</td>
<td>8:00-9:30 NIBR Session</td>
<td>3:30-5:00</td>
<td>Concurrent Session III</td>
</tr>
<tr>
<td>9:00 pm</td>
<td>9:00-10:00 Poster Session and Reception</td>
<td>3:30-5:00</td>
<td>Concurrent Session III</td>
</tr>
<tr>
<td>10:00 am</td>
<td>10:30–12:05 Council Dinner (ticket required).</td>
<td>3:30-5:00</td>
<td>Concurrent Session III</td>
</tr>
</tbody>
</table>

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

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Final Program and Abstracts
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