Jointly Sponsored and Organized by the Councils on Peripheral Vascular Disease and ATVB

Arteriosclerosis, Thrombosis and Vascular Biology 2012
Scientific Sessions

Preliminary Program
Call For Abstracts

April 18–20, 2012 | Hilton Chicago | Chicago, Illinois

my.americanheart.org
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**Legend:**
- **Plenary Session**
- **Concurrent Session**
- **Poster Session**
- **Presentation Skills Training**
- **Meals/Breaks**
- **Other Meetings of Interest**

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**2 Become an AHA/ASA Professional Member and save up to $300 off registration.**
**General Information**

**Key Dates**
- Oct. 4: Abstract and award submissions open
- Dec. 14: Online registration opens
- Jan. 10: Abstract and award submission deadline extended!
- March 7: Last day to become an AHA professional member and qualify for a registration discount of up to $300
- March 21: Early registration deadline

**Program Description**
This 2½-day meeting is sponsored by the Council on Arteriosclerosis, Thrombosis and Vascular Biology, and co-sponsored by the Council on Peripheral Vascular Disease, with the participation of 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 format is designed to provide 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. Discuss recent research related to HDL mechanisms in CVD, including HDL assessment and the results of clinical trials of therapies designed to improve HDL metabolism, including implications for the prevention and treatment of atherosclerosis.

2. Discuss the latest research into the signaling and genetic pathways involved in abnormal clotting and vascular dysfunction, and the implications of such biochemical evidence for new therapeutic options and management.


4. Identify potential biomarkers that could be used to assess CVD risk and the strengths and weaknesses.

5. Describe the biology of cardiometabolic risk factors as they relate to the development and progression of cardiovascular disease and diabetes.

**Target Audience**
The conference will especially appeal to scientists and clinicians in cardiovascular medicine, cardiovascular surgery, cardiovascular research, thrombosis research, clinical cardiology, molecular/cellular biology, vascular biology, vascular medicine, vascular surgery, endocrinology, genetics, functional genomics, hematology, immunology and physiology.

**Who Attends**
- 92% are physicians and/or research scientists
- 26% of the attendees are international: Canada (22%), Germany (10%), France (8%), the Netherlands (8%), Japan (7%), United Kingdom (6%), and Australia (5%).
- Specialties include Biochemistry, Cardiology, Cell Biology, Diabetes and Metabolism, Genetics, Hematology, Internal Medicine, Molecular Biology, Nutrition, Pathology, Pharmacology, Physiology, Vascular Surgery, Vascular Medicine and many others.

Register online at my.americanheart.org
Continuing Medical Education

The American Heart Association is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Disclosure

All faculty participating in CME/CE activities sponsored by The American Heart Association will disclose to the audience (1) significant financial relationships with the manufacturer(s) of products from the commercial supporter(s) and/or the manufacturer(s) of products or devices discussed in their presentation, and (2) unlabeled/unapproved uses of drugs or devices discussed in their presentation. Such disclosures will be made in writing in course presentation materials.

Registration

Registration will open on Wednesday, Dec. 14, 2011. The conference registration site may be accessed at my.americanheart.org (Sessions tab) and follow the link to ATVB 2012. The deadline for early registration is March 21, 2012. After this date the fee will increase by $100. AHA/ASA Council members pay significantly discounted registration fees. To qualify for the AHA membership rate, you must renew or become a member by March 6, 2012.

Venue

ATVB 2012 will be held at the Hilton Chicago, a landmark downtown hotel located on the Cultural Michigan Avenue Mile. The hotel is located at 720 South Michigan Avenue, and is within walking distance of world-famous Millennium Park, restaurants and shopping. Close by are Navy Pier, Adler Planetarium, Theatre District, Art Institute and Soldier Field. The Hilton Chicago offers a variety of options to fill your leisure time, including an outdoor pool, seasonal sun-deck, and state of the art fitness center.

Rooms for conference participants are available at special reduced rates of $229 per night single or double, and will be available on a first come, first served basis until all are filled or until Wednesday, March 26, 2012. Information about lodging rates and reservations will be available on the conference web site at my.americanheart.org (Sessions tab) and follow the link to ATVB 2012.

The most convenient airports are O’Hare International Airport, which is 18 miles (45 minutes) away, and Midway Airport, which is 12 miles (25 minutes) away.

Call for Abstracts

Physicians, research investigators and other health scientists are invited to submit abstracts on all aspects of arteriosclerosis, thrombosis, vascular biology and peripheral vascular disease for presentation at ATVB 2012. Abstracts for the conference will be selected for oral or poster presentation.

The deadline for electronic submission of abstracts is 5:00 PM Central Standard Time (CST), Thursday, Jan. 5, 2012. To submit your abstract, visit the conference website at my.americanheart.org (Sessions tab) and follow the link to ATVB 2012.

Please note that you will be charged a processing fee of US $40 for each abstract you submit. Abstracts accepted for presentation at the conference will be published in an online issue of the AHA journal Arteriosclerosis, Thrombosis and Vascular Biology following the conference.

Abstract sessions are a forum for the presentation of novel research findings. Thus, the work covered by the abstract must not have been published (manuscript or abstract) or presented at any national meeting or world congress before April 18, 2012.

Abstracts and presentations are embargoed for release at date and time of presentation or time of AHA news event. Written embargoed information cannot be shared with anyone, however, one-on-one embargoed media interviews may be conducted as long as the reporter agrees to abide by the embargo policy. Failure to honor embargo policies will result in the abstract being withdrawn and barred from presentation.

Become an AHA/ASA Professional Member and save up to $300 off registration.
Abstracts may be submitted in the following categories:

- Aortic aneurysm disease
- Apolipoproteins — structure and function
- Blood coagulation and fibrinolysis
- Carotid and peripheral artery disease
- Cellular lipid metabolism
- Clinical aspects of diabetes, obesity and insulin resistance
- Clinical lipidology — diagnostics and therapeutics
- Diabetes, obesity and metabolic disorders
- Immunity and inflammation in vascular biology and atherosclerosis
- Lipoprotein metabolism and therapeutic targets
- Mechanisms of atherosclerosis
- Molecular and cellular biology of the vessel wall
- Platelet production, signaling, and function
- Vascular cells, inflammation, and thrombosis
- Vascular development, differentiation, regeneration and angiogenesis
- Venous thromboembolism: mechanisms, biomarkers and therapy


Early Career Awards

Sponsored by the ATVB and PVD Councils

Application for the following awards may be made by submitting abstracts for presentation at ATVB 2012 by the Jan. 5, 2012 deadline. For detailed instructions, eligibility requirements and award criteria, visit the conference website. If you have questions about eligibility, contact scientificconferences@heart.org.

- Robert W. Hobson, II, MD Early Career Investigator Award is sponsored by the PVD Council and recognizes an outstanding early career investigator in the field of vascular and endovascular medicine, vascular surgery or vascular biology.

- Kenneth M. Brinkhous Young Investigator Prize in Thrombosis recognizes outstanding endeavors by new investigators in fundamental and applied research in thrombosis, including the mechanism, detection, treatment and prevention of thrombotic disorders.

- Irvine H. Page Young Investigator Research Award is open to new investigators in arteriosclerosis and vascular biology. The award recognizes investigators in the formative years of their careers who have the potential to become future leaders in cardiovascular research.

- Junior Investigator Award for Women helps recruit and retain women in the field of arteriosclerosis, thrombosis, and vascular biology by recognizing excellent research conducted by women.

- 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 Conference, present research in oral or poster format and engage in discussion with senior investigators.

Special Features

Special lectures and award presentations are included in the program:

- Early Career Training sessions
- Meet the Professor Luncheon
- PVD Council Luncheon
- Irvine H. Page Young Investigator Research Award and the Kenneth M. Brinkhous Young Investigator Prize in Thrombosis competitions
- Mentor of Women Award Luncheon
- Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research Lecture
- ATVB Distinguished Lecture
- ATVB Keynote Lecture
- Council on Arteriosclerosis, Thrombosis and Vascular Biology and Peripheral Vascular Disease Joint Council Dinner

Register online at my.americanheart.org
Other Meetings of Interest
The following conferences and symposia are not part of the education activities for ATVB 2011.

Vascular Research Initiatives Conference
April 17, 2012, Chicago Hilton
The 4th Annual Vascular Research Initiatives Conference (VRIC), presented by Society for Vascular Surgery® (SVS), is a one-day session preceding the main ATVB meeting, specifically designed to encourage interaction between vascular surgeon investigators and scientists from other vascular biology-related disciplines. A particular objective is to stimulate collaboration between attendees, especially scientists and surgeons, as well as to stimulate interest in research among trainees who are aspiring academic vascular surgeons.

Kinetics-Metabolism 2012
April 17, 2012, Chicago Hilton
Scientists interested in lipoprotein and cellular metabolism, and kinetic modeling are invited to attend KinMet 2012. There is no additional cost to attend this meeting, and all registrants are invited to attend.

2012 Workshop on HDL Structure-Function
April 20–21, 2012, Chicago Hilton
This workshop is an intimate and informal gathering of experts in HDL research. It’s focus includes controversial and emerging topics in HDL structure and function, bring experienced and young scientists together in an open forum. The objective of the meeting is to encourage lively debate and dialogue. All registered attendees of the 2012 ATVB Conference are welcome to participate.
Preliminary Program

WEDNESDAY, APRIL 18

8:00–9:45 AM
Plenary Session I: Metabolic Influences on Vascular Disease

8:00  Conference Opening/Welcome
8:15  ATVB Keynote Lecture: Targeting Endothelial Metabolism, Peter Carmeliet, MD, PhD, University of Leuven Vasalius Research Center, Leuven, Belgium
8:45  Metabolic Control by MicroRNAs, Markus Stoffel, MD, PhD, Institute of Molecular Systems Biology, Swiss Federal Institute of Technology, Zurich, Switzerland
9:15  The Role of Obesity and Inflammation in Platelet Function, Jane E. Freedman, MD, Boston University School of Medicine, Boston, MA

10:15 AM–NOON
Concurrent Session I A: Apolipoproteins: Structure and Function

10:15  Autophagy in Multiple Guises Regulates Hepatic ApoB Production, Edward Fisher, MD, PhD, FAHA, New York University, New York, NY
10:45  Oral Abstract Presentations

Concurrent Session I B: Blood Coagulation and Fibrinolysis

10:15  Tissue Factor Pathway Inhibitor and Thrombosis, Alan E. Mast, MD, PhD, FRCPath, University of Cambridge, Cambridge, UK
10:45  Oral Abstract Presentations

Concurrent Session I C: Vascular Development, Differentiation, Regeneration and Angiogenesis

10:15  Building Rapidly Perfused Vascular Networks Using Human Endothelial and Mesenchymal Progenitor Cells, Joyce Bischoff, PhD, Children’s Hospital Boston, Harvard Medical School, Boston, MA
10:45  Oral Abstract Presentations

Concurrent Session I D: Clinical Lipidology: Diagnosis and Therapeutics

10:15  Novel Therapies for Dyslipidemia, Michael Davidson, MD, FAHA, FACP, University of Chicago, Chicago, IL
10:45  Oral Abstract Presentations

NOON–1:00 PM
Meet the Professor Luncheon (ticket required) or lunch on your own

1:30–3:00 PM
Plenary Session II: Genomics of ATVB Disorders

1:30  A Rare View of Coding Variation and Risk for Myocardial Infarction, Sekar Kathiresan, MD, Broad Institute, Massachusetts General Hospital, Boston, MA
2:00  Genomics of Platelet Function and Thrombosis, Willem Ouwehand, MD, PhD, FRCPath, University of Cambridge, Cambridge, UK
2:30  9p21 Variants and CVD, Kelly A. Frazer, PhD, Moores UCSD Cancer Center, La Jolla, CA

3:30–5:15 PM
Concurrent Session II A: Cellular Lipid Metabolism

3:30  Mir33 Regulation of Sterol Mobilization and Bile Secretion, Angel Baldan, PhD, St. Louis University School of Medicine, St. Louis, MO
4:00  Oral Abstract Presentations

Concurrent Session II B: Joint Thrombosis/PVD Session on Venous Thromboembolism, Mechanisms, Biomarkers and Therapy

3:30  Roles of Factor VIII and Fibrinogen in Venous Thrombosis, Alisa Wolberg, MD, University of North Carolina at Chapel Hill, Chapel Hill, NC
4:00  The Interface of Sterile Inflammation Mechanisms and Venous Thrombosis Resolution, Peter Henke, MD, University of Michigan, Ann Arbor, MI
4:30  Oral Abstract Presentations

Concurrent Session II C: Molecular and Cellular Biology of the Vessel Wall

3:30  Reactive Oxygen Species in the Vasculature: Good? Bad? Good and Bad? William M. Chilian, PhD, Northeastern Ohio University College of Medicine, Rootstown, OH
4:00  Oral Abstract Presentations

Concurrent Session II D: Clinical Lipidology: Clinical Aspects of Diabetes, Obesity and Insulin Resistance

3:30  Why is HDL Cholesterol Low in People with Insulin Resistance and Type 2 Diabetes Mellitus? Henry N. Ginsberg, MD, Columbia University College of Physicians & Surgeons, New York, NY
4:00  Oral Abstract Presentations

5:30–7:30 PM
Poster Session and Reception I

Register online at my.americanheart.org
THURSDAY, APRIL 19

8:00–10:00 AM
Plenary Session III: Young Investigator Award Competition
8:00  Kenneth M. Brinkhous Young Investigator Prize in Thrombosis Competition
9:00  Irvine H. Page Young Investigator Research Award Competition

10:30 AM–12:15 PM
Concurrent Session III A: Mechanisms of Atherosclerosis
10:30  Role of Inflammation in the Initiation and Progression of Atherosclerosis, Klaus Ley, MD, La Jolla Institute for Allergy and Immunology, La Jolla, CA
11:00  Oral Abstract Presentations

Concurrent Session III B: Platelet Production, Signaling and Function
10:30  Role of Platelets in Neovascularization, Tatiana Byzova, PhD, FAHA, Cleveland Clinic, Cleveland, OH
11:00  Oral Abstract Presentations

Concurrent Session III C: Diabetes, Obesity and Metabolic Disorders
10:30  Role of Epigenetics and MicroRNAs in Diabetic Complications, Rama Natarajan, PhD, FAHA, FASN, Beckman Research Institute of City of Hope, Duarte, CA
11:00  Oral Abstract Presentations

Concurrent Session III D: Aortic Aneurysm Disease
10:30  Pathophysiology and Medical Management of Abdominal Aortic Aneurysms, Robert W. Thompson, MD, FACS, Washington University School of Medicine, St. Louis, MO
11:00  Oral Abstract Presentations

12:15–1:30 PM
The Mentor of Women Award Luncheon (ticket required), PVD Luncheon (ticket required) or lunch on your own

1:30–3:00 PM
Plenary Session IV: Inflammasome Regulation of Metabolic Disease
1:30  Linking Lipid Metabolism and Innate Immunity via SREBP-1, Timothy Osborn, PhD, Stanford-Burnham Medical Research Institute, Orlando, FL
2:00  Nanoparticulate-mediated siRNA Targeting of Macrophages in Cardiovascular Disease, Matthias Narthendorf, MD, PhD, MGH Center of Systems Biology, Harvard Medical School, Boston, MA
2:30  Inflammasome Activation in Type 2 Diabetes, Luke O’Neill, PhD, Trinity College, Dublin, Ireland

3:30–5:15 PM
Concurrent Session IV A: Lipoprotein Metabolism and Therapeutic Targets
3:30  Genetic Links with Triglyceride Metabolism, Robert Hegele, MD, FRCP, FACP, FAHA, Robarts Research Institute, London, ON
4:00  Oral Abstract Presentations
Register online at my.americanheart.org

**FRIDAY, APRIL 20**

8:00–10:00 AM
**Poster Session III and Continental Breakfast**

10:00–11:30 AM
**Plenary Session V: Invited Lecture Series**

**Hoeg Award Lecture**
10:00  Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research Lecture, TBA

**ATVB Distinguished Lecture**
10:45  Vascular Biology at the Crossroads: Future Opportunities for Science and Medicine, Elizabeth G. Nabel, MD, Brigham and Women’s Hospital, Boston, MA

11:30 AM
**Closing Remarks/Conference Adjourns**

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**Concurrent Session IV B: Vascular Cells, Inflammation and Thrombosis**

3:30  Complement Coagulation Crosstalk, Edward Conway, MD, PhD, MBA, University of British Columbia, Vancouver, BC

4:00  Oral Abstract Presentations

**Concurrent Session IV C: Immunity and Inflammation in Vascular Biology and Atherosclerosis**

3:30  Nuclear Receptors, Monocyte Subsets and Atherosclerosis, Catherine C. Hedrick, PhD, FAHA, La Jolla Institute for Allergy and Immunology, La Jolla, CA

4:00  Oral Abstract Presentations

**Concurrent Session IV D: Carotid Artery Disease**

3:30  Revascularization for Carotid Disease: What Does the Data Support? Joshua A. Beckman, MD, MS, Brigham and Women’s Hospital, Boston, MA

4:00  Oral Abstract Presentations

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5:30–7:30 PM
**Poster Session and Reception II**

7:30–9:00 PM
**ATVB and PVD Joint Council Dinner** (ticket required) or dinner on your own

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The American Heart Association is a national voluntary health organization whose mission is building healthier lives, free of cardiovascular diseases and stroke.
ATVB 2012 Program Committee

Steven R. Lentz, MD, PhD, FAHA
Conference Chair, University of Iowa, Iowa City, IA

Kathryn J. Moore, PhD
Conference Vice Chair, New York University Medical Center, New York, NY

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William M. Chilian, PhD
Northeastern Ohio University College of Medicine, Rootstown, OH

Alan Dardik, MD, PhD, FACS
Yale University School of Medicine, New Haven, CT

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Catherine C. (Lynn) Hedrick, PhD, FAHA
La Jolla Institute for Allergy and Immunology, La Jolla, CA

Robert Hegele, MD, FRCPC, FACP, FAHA
Immediate Past Conference Co-Chair, Robarts Research Institute, University of Western Ontario, London, Ontario, Canada

Jay Horton, MD
UT Southwestern Medical School, Dallas, TX

Murray W. Huff, PhD, FAHA
Immediate Past Conference Co-Chair, Robarts Research Institute, University of Western Ontario, London, Ontario, Canada

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Johns Hopkins University School of Medicine, Baltimore, MD

Susan S. Smyth, MD, PhD, FACC
University of Kentucky, Lexington, KY

Thomas W. Wakefield, MD
University of Michigan Medical School, Ann Arbor, MI

ATVB Invited Presenters

Angel Baldan, PhD
St. Louis University School of Medicine, St. Louis, MO

Joshua A. Beckman, MD, MS
Brigham and Women’s Hospital, Boston, MA

Joyce Bischoff, PhD
Children’s Hospital Boston, Harvard Medical School, Boston, MA

Tatiana Byzova, PhD, FAHA
Cleveland Clinic, Cleveland, OH

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

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Submit your best science by Thursday, Jan. 5, 2012 and plan to attend!