



Preliminary Program

Arteriosclerosis, Thrombosis and Vascular Biology | Peripheral Vascular Disease 2017 Scientific Sessions

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

May 4-6, 2017 | Hyatt Hotel | Minneapolis, Minnesota

Program at a Glance

	Wednesday May 3, 2017	Thursday May 4, 2017		Friday May 5, 2017		Saturday May 6, 2017
7:00	<i>Separate registration may be required for the meetings listed below.</i>	Registration, Continental Breakfast, Exhibits	Early Career Training Session	Registration, Continental Breakfast, Exhibits	Early Career Training Session	
7:30						Registration
8:00	8:00 AM -6:00 PM Vascular Research Initiatives Conference 2017	8:00-10:00 Conference Opening and Plenary Session I: Functional Genomics – Scientific, Clinical and Ethical Implications of Genome Editing in 2017		8:00-9:30 Plenary Session III Highlights from the ATVB Journal		8:30-10:30 Poster Session and Continental Breakfast
8:30				9:30-10:00 Refreshment Break/Exhibits		
9:00				10:00-11:45 Concurrent Session III		
9:30				A: Lipoprotein Metabolism and Therapeutic Targets		
10:00		10:00-10:30 Refreshment Break/Exhibits		B: Blood Coagulation and Antithrombotic Therapy		
10:30		10:30-12:15 Concurrent Session I A: Mechanisms of Atherosclerosis B: Molecular, Developmental and Cellular Biology of the Vessel Wall C: Translational Science of Vascular Medicine: Vascular Dysfunction		C: Translational Science in Venous Thromboembolic Disease		
11:00				11:45-1:45 High Functioning in High Pressure: Using MBTI to Enhance Your Performance (<i>ticket required; seating is limited</i>)		10:30-Noon Plenary Session V Invited Lecture Series Hoeg Award Lecture Keynote Lecture Distinguished Lecture
11:30		12:15-2:15 The Mentor of Women Award Luncheon (<i>ticket required</i>)		Next-Generation Technology Bootcamps: CRISPR-Cas9 Genome Editing (basic and advanced) (<i>ticket required; seating is limited</i>) Or lunch on your own		
12:00	12:00-6:00 PM KinMet			Plenary Session IV 1:45-3:45 Young Investigator Award Competition — Brinkhous Prize and Page Award		NOON Closing Remarks/ Adjourn
12:30		PVD Annual Business Meeting and Networking Luncheon (<i>ticket required</i>)				
1:00	1:00-5:00 PM CAAC Symposium	Next-Generation Technology Bootcamps: UCSC Genome Browser (basic) and ChIP-seq/Ingenuity (advanced) (<i>ticket required; seating is limited</i>) Or Lunch on your Own				1:30 HDL Structure-Function Workshop Saturday/Sunday Concludes Sunday, May 7, Noon
1:30						
2:00		2:15-3:45 Plenary Session II: Origins, Fates, and Dynamics of Hematopoietic and Vascular Cells				
2:30						
3:00	3:00-7:00 PM ATVB PVD Registration	3:45-4:15 Refreshment Break/Exhibits		3:45-4:15 Refreshment Break/Exhibits		<i>Separate registration required</i>
3:30		4:15-6:00 Concurrent Session II		4:15-6:00 Concurrent Session IV		
4:00		A: Apolipoproteins and Lipid Metabolism		A: Diabetes, Obesity and Metabolic Disorders		
4:30		B: Immunity and Inflammation in Vascular Biology in Thrombosis		B: Platelet Production, Signaling and Function		
5:00		C: Translational Science of Vascular Medicine: Device Development in Biological Interfaces		C: Genomics, Epigenomics and Stem Cells in Vascular Disease		
5:30	5:30-10:00 PM CAAC Reception	6:00-8:00 Poster Session and Reception		6:00-8:00 Poster Session and Reception		
6:00						
6:30						
7:00						
7:30						
8:00				8:00-10:00 ATVB PVD Council Dinner (<i>ticket required</i>)		
8:30						
9:00						

Preliminary Program Agenda

THURSDAY, MAY 4

7:00 AM

Registration, Continental Breakfast, Exhibits

7:00-8:00 AM

Early Career Training

8:00-8:30 AM

Conference Opening Welcome

8:30-10:00 AM

Plenary Session I: Functional Genomics – Scientific, Clinical and Ethical Implications of Genome Editing in 2017

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

8:30 CRISPRizing the Mouse for Cardiovascular Study

Joseph Miano, PhD, University of Rochester, Rochester, New York

8:50 Genome Editing with AAV Vectors: A Novel Approach for Lipid Disorders

William Lagor, PhD, Baylor College of Medicine, Houston, Texas

9:10 Therapeutic Genome Editing: Somatic Versus Germline

Kiran Musunuru, MD, PhD, University of Pennsylvania, Philadelphia, Pennsylvania

9:30 Interactive Discussion/Q&A

10:00-10:30 AM

Refreshment Break and Exhibits

10:30 AM-12:15 PM

Concurrent Session I A: Mechanisms of Atherosclerosis

10:30 TBD

Nicholas Leeper, MD, Stanford University, Stanford California

11:00 Oral Abstract Presentations

10:30 AM-12:15 PM

Concurrent Session I B: Molecular, Developmental and Cellular Biology of the Vessel Wall

10:30 TBD

Daniel Greif, MD, Yale School of Medicine, Stanford, Connecticut

11:00 Oral Abstract Presentations

Thursday continued

10:30 AM-12:15 PM

Concurrent Session I C: Translational Science of Vascular Medicine: Vascular Dysfunction
Organized in cooperation with the Council on Peripheral Vascular Disease.

10:30 HIV, Inflammation, and Cardiovascular Disease

Priscilla Hsue, MD, University of California-San Francisco, San Francisco, California

11:00 TBD

11:30 Oral Abstract Presentations

12:15-2:15 PM

The Mentor of Women Award Luncheon (ticket required)

Lunch will be provided.

Luncheon Presentation:

John T. Matsui, PhD, University of California Berkeley, Berkeley, CA

12:15-2:15 PM

PVD Annual Business Meeting and Networking Luncheon (ticket required)

Lunch will be provided.

12:15-1:15 PM

Next-Generation Technology Bootcamp: UCSC Genome Browser (basic) (ticket required)

Lunch on your own.

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

1:15-2:15 PM

Next-Generation Technology Bootcamp: ChIP-seq/Ingenuity (advanced) (ticket required)

Lunch on your own.

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

12:15-2:15 PM

Or lunch on your own

2:15-3:45 PM

Plenary Session II: Origins, Fates, and Dynamics of Hematopoietic and Vascular Cells

2:15 TBD

2:45 Developmental Control of Macrophage Functions in Tissues

Frederic Geissmann, MD, PhD, Memorial Sloan Kettering Cancer Center, New York, New York

3:15 Vascular Smooth Muscle Cells Have Dominant Atheroprotective and Atheropromoting Roles in Atherosclerotic Lesion Pathogenesis

Gary Owens, PhD, University of Virginia, Charlottesville, Virginia

Thursday continued

3:45-4:15 PM

Refreshment Break and Exhibits

4:15-6:00 PM

Concurrent Session II A: Apolipoproteins and Lipid Metabolism

4:15 TBD

4:45 Oral Abstract Presentations

4:15-6:00 PM

Concurrent Session II B: Immunity and Inflammation in Vascular Biology and Thrombosis

4:15 The Contact System in Inflammation, Coagulation and Innate Immunity

Thomas Renné, MD, PhD, Karolinska Institutet, Stockholm, Sweden

4:45 Oral Abstract Presentations

4:15-6:00 PM

Concurrent Session II C: Translational Science of Vascular Medicine: Device Development and Biological Interfaces

Organized in cooperation with the Council on Peripheral Vascular Disease. This session is not part of the accredited program.

6:00-8:00 PM

Poster Session 1 and Reception

6:30-7:30 PM

Moderated PVD eAbstract and Poster Session

Organized in cooperation with the Council on Peripheral Vascular Disease.

FRIDAY, MAY 5

7:00 AM

Registration, Continental Breakfast, Exhibits

7:00-8:00 AM

Early Career Training

8:00-9:30 AM

Plenary Session III: Highlights from the *ATVB* Journal

8:00 **ATVB Journal Report**

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

Presentations by the 2017 *ATVB* Journal Early Career Investigator Award Recipients

8:15 **Deficiency of ATP-Binding Cassette Transporters A1 and G1 in Endothelial Cells Accelerates Atherosclerosis in Mice**

Marit Westerterp, PhD, University of Groningen, Groningen, Netherlands

8:30 **Synergistic Inhibition of Both P2Y₁ and P2Y₁₂ Adenosine Diphosphate Receptors as Novel Approach to Rapidly Attenuate Platelet-Mediated Thrombosis**

Thomas Gremmel, MD, Medical University of Vienna, Vienna, Austria

8:45 **An Intronic Flk1 Enhancer Directs Arterial-Specific Expression via RBPJ-Mediated Venous Repression**

Sarah De Val, PhD, Oxford University, Oxford, United Kingdom

9:00 **TBD**

Daniel J. Rader, MD, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania

9:30-10:00 AM

Refreshment Break and Exhibits

10:00-11:45 AM

Concurrent Session III A: Lipoprotein Metabolism and Therapeutic Targets

10:00 **Gut Microbial Choline Metabolite TMAO Enhances Platelet Hyperreactivity and Thrombosis Risk**

Weifei Zhu, PhD, Cleveland Clinic, Lerner Research Institute, Cleveland, Ohio

10:30 **Oral Abstract Presentations**

10:00-11:45 AM

Concurrent Session III B: Blood Coagulation and Antithrombotic Therapy

10:00 **Novel Mechanisms of Endothelial Homeostasis**

Magdalena Chrzanowska-Wodnicka, PhD, Blood Center of Wisconsin, Milwaukee, Wisconsin

10:30 **Oral Abstract Presentations**

Friday continued

10:00-11:45 AM

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.

10:00 TBD

Farouc Jaffer, MD, PhD, FACC, FAHA, FSCAI, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts

10:30 Does Chronic Inflammation Explain the Recurrent Nature of VTE?

Gregory Piazza, MD, Brigham and Women's Hospital, Boston, Massachusetts

11:00 Oral Abstract Presentations

11:45 AM-12:45 PM

Next-Generation Technology Bootcamp: CRISPR-Cas9 Genome Editing (basic) (ticket required)

Lunch on your own.

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

12:45-1:45 PM

Next-Generation Technology Bootcamp: CRISPR-Cas9 Genome Editing (advanced) (ticket required)

Lunch on your own.

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

12:15– 1:45 PM

High Functioning in High Pressure: Using MBTI to Enhance Your Performance (ticket required)

Lunch on your own, the session will begin promptly at 12:15 PM. Seating is limited to the first 75 registrants. Organized in cooperation with the ATVB Early Career Committee.

Facilitator:

Maureen Lazar, University of Pittsburgh, Pittsburgh, PA

11:45 AM – 1:45 PM

Or lunch on your own

1:45-3:45 PM

Plenary Session IV: Young Investigator Award Competition

1:15 Kenneth M. Brinkhous Young Investigator Prize in Thrombosis Competition

2:15 Irvine H. Page Young Investigator Research Award Competition

3:45-4:15 PM

Refreshment Break and Exhibits

Friday continued

4:15-6:00 PM

Concurrent Session IV A: Diabetes, Obesity and Metabolic Disorders

4:15 Novel Mediators of Diabetes Associated Atherosclerosis

Sudha Biddinger, MD, PhD, Children's Hospital Boston, Boston, Massachusetts

4:45 Oral Abstract Presentations

Concurrent Session IV B: Platelet Production, Signaling and Function

4:15 TBD

Sidney Whiteheart, PhD, University of Kentucky, Lexington, Kentucky

4:45 Oral Abstract Presentations

Concurrent Session IV C: Genomics, Epigenomics and Stem Cells in Vascular Disease

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

4:15 Systems Genetics to Identify Novel Pathways in Cardiometabolic Disorders

Mete Civelek, PhD, University of Virginia, Charlottesville, Virginia

4:45 Oral Abstract Presentations

6:00-8:00 PM

Poster Session 2 and Reception

8:00-10:00 PM

Council Dinner (*ticket required*)

SATURDAY, MAY 6

8:00 AM
Registration

8:30-10:30 AM
Poster Session III and Continental Breakfast

10:30 AM -Noon
Plenary Session V
Invited Lecture Series

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

10:30 TBD

Keynote Lecture

11:00 The Role of Circulating Non-coding RNAs in Atherothrombotic Disease
Jane E. Freedman, MD, University of Massachusetts Medical Center, Worcester, Massachusetts

Distinguished Lecture

11:30 Exploiting Protective Autoimmunity to Develop a Vaccine Against Atherosclerosis
Klaus Ley, MD, La Jolla Institute for Allergy & Immunology, La Jolla, CA

Noon
Closing Remarks/Conference Adjourns
