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