American Heart Association®
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Final Program

5th Annual Conference on

Arteriosclerosis, Thrombosis and Vascular Biology

May 6–8, 2004
Hilton San Francisco
San Francisco, CA

Conference sponsored by the American Heart Association's Scientific Council on Arteriosclerosis, Thrombosis and Vascular Biology; Council on Nutrition, Physical Activity and Metabolism; and the National Heart, Lung, and Blood Institute.

For online information, see www.myamericanheart.org/conferences
Email: scientificconferences@heart.org

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We appreciate the educational grant from the National Heart, Lung, and Blood Institute to support the New Investigator Travel Awards.

Additionally, we thank Bristol-Myers Squibb and Pfizer for their contribution in support of the Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research.

The American Heart Association is a national voluntary health agency whose mission is to reduce disability and death from cardiovascular diseases and stroke.

Program Information

Program Description

This two-and-one-half day meeting is sponsored by the Council on Arteriosclerosis, Thrombosis and Vascular Biology; the Council on Nutrition, Physical Activity and Metabolism and the National Heart, Lung, and Blood Institute. The meeting will focus on new developing research opportunities in the areas of arteriosclerosis, thrombosis and vascular biology. The conference includes special lectures, discussions, and oral and poster presentations. The meeting format is designed to provide opportunities for intense interaction among the participants during the sessions and breaks.

The goal of this meeting is to bring together diverse disciplines within the arteriosclerosis, thrombosis, and vascular biology research communities to allow investigators to explore areas of cross-disciplinary interest. The program encourages cross-fertilization by examining new and emerging areas in lipids and lipoproteins, arteriosclerosis, thrombosis and vascular biology in an informal setting. Sessions planned by each of the representative areas, i.e., arteriosclerosis, thrombosis, vascular biology, and nutrition/physical activity/metabolism, will provide an opportunity for oral presentations of abstracts. The arteriosclerosis sessions cover the areas of cellular lipid trafficking; lipoprotein metabolism; leukocyte biology in atherosclerosis, and mechanisms of atherosclerosis. The thrombosis sessions address the areas of platelet biology and signaling; clinical aspects of thrombosis and thrombolysis, and control of coagulation. The vascular biology sessions include vascular cell signaling, cycle control and gene expression; vascular development, angiogenesis and differentiation, and cell-cell and cell-matrix interactions. The nutrition/physical activity/metabolism sections include lipids, metabolism and atherogenesis, and nutrition, obesity and exercise. We expect broad representation from many disciplines, and we encourage young scientists to attend. We hope that the interdisciplinary approach will serve as a template for future meetings that encompass a broad view of arteriosclerosis, thrombosis and vascular biology.

Who Should Attend

Clinicians, researchers, nurses, and other health professionals with an interest in lipids and lipoproteins, arteriosclerosis, thrombosis, and vascular biology will benefit from attending the abstract presentations, discussions, and lectures from prestigious faculty covering a wide range of topics.

Learning Objectives

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

1. Discuss the complex molecular and cellular events involved in the artery wall that are a prerequisite for an improved understanding of the pathogenesis of cardiovascular disease and for designing specific and improved interventions to prevent clinical disease.
2. Integrate an understanding of cardiovascular disease at the fundamental level with emphasis on nuclear hormone receptors, genetics of atherosclerosis, cellular lipid trafficking, cell-cell and cell-matrix interactions, platelet biology, thrombosis and thrombolysis, control of coagulation factors, angiogenesis, vascular development, stem cells, lipid rafts, fatty acid metabolism, obesity and diabetes, nutrition and physical activity, lipoprotein metabolism, leukocyte biology, and cell signaling.
3. Recognize various mechanisms involved in nutrition, thrombosis, vascular biology and atherosclerosis.
4. Develop new insights that will lead to novel and effective interventions to prevent cardiovascular disease.

Continuing Education Credit

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

The American Heart Association designates this educational activity for a maximum of 19.25 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits he/she actually spent in the activity.

The American Medical Association has determined that physicians not licensed in the US who participate in this CME activity are eligible for AMA PRA category 1 credit.

The American Heart Association must ensure fair balance, independence, objectivity, and scientific rigor in all its individually sponsored or jointly sponsored educational activities. Therefore, all faculty participating in continuing education activities sponsored by the American Heart Association must disclose to the audience (1) any significant financial relationships with 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 activity materials.

Disclaimer

The 5th Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology is a scientific and educational conference for the purpose of 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.

Abstracts from the 5th Annual Conference

Abstracts from the 5th Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology will be published in the May 6, 2004, online issue of *Arteriosclerosis, Thrombosis and Vascular Biology* at www.ahajournals.org. Each conference registrant will receive a copy of the abstracts in the registration materials.

Abstracts 1–42 will be presented orally. Abstracts presented as posters will be scheduled as follows:

Poster Session I: Thursday, May 6, 5:30 PM–7:30 PM (attended), posters P43–P189.

Poster Session II: Friday, May 7, 5:30 PM–7:30 PM (attended), posters P190–P334

Poster Session III: Saturday, May 8, 8:00 AM–10:00 AM (attended), posters P335–P484

To allow additional time to view the posters, the Yosemite Room will be open Thursday, May 6, 11:45 AM–5:00 PM; Friday, May 7, 11:45 AM–5:00 PM, and Saturday, May 8, 7:00 AM–12:00 PM.

Message Center

A message board where written messages can be posted will be available in the registration area. Phone messages should be directed to your hotel room.

New Investigator Travel Awards

Investigators-in-training, ie, graduate students and postdoctoral fellows were encouraged to apply for these awards. Twenty competitive awards ($1,000 each) were awarded for conference travel. Travel awards permit investigators to attend this scientific conference to present research in oral or poster format and engage in discussions with senior investigators. The following persons received New Investigator Travel Awards:

Name	Abstract/Poster Number
Emma Allister	P312
Fjoralba Babamusta	P368
Jimmy Berbée	42
Stephanie Berger	P391
Susanne Fries	15
Peter Gargalovic	P99
Jonathan Gitlin	P290
Richard Lee	12
Hong Lu	P446
Ruth Michaelis	P62
Shahid Nimjee	37
Marie Paradis	30
Spencer Proctor	P285
Dermot Reilly	P49
Patrick Rensen	P469
Craig Russell	P407
Jochen Schneider	25
Suman Tandon	8
Eugene Trogan	36
Yue Zhao	P461

Special Events, Lectures, Awards

The following special lectures and award presentations are included in the program:

- On Thursday, May 6, 11:45 AM, the Council on ATVB Women's Leadership Committee will host the **Mentor of Women Award Luncheon** in Continental Parlor 7–9. During the luncheon the Women's Leadership Committee Mentoring Award will be presented. The Mentoring Award is presented to an individual who has served as an outstanding mentor for women. This year Dr. Linda Curtiss will receive the award.

  Also at the luncheon, the Junior Investigator Award for Women finalists will be recognized.

  The 2004 finalists are:

  Shail Bhat — P183
  Anne Hecke — P48
  Kelly Hester — P151
  Kara Maxwell — 1
  Jennifer Mitchell — P46
  Jenelle Timmins — 10

  The luncheon is open to all conference attendees.

  Tickets for the luncheon may be purchased at the Registration Desk on Wednesday, May 6. *Ticket required; there is a non-refundable fee for this event.*

- The **Irvine H. Page Young Investigator Research Awards Competition** finalists will present their abstracts during Plenary Session III on Friday, May 7, in Continental Ballroom 4–5. The Page Award encourages young investigators to continue careers in arteriosclerosis or

vascular biology, and recognizes talented investigators at an early or beginning point in their careers. The following finalists will present their abstracts, and the winner will be announced during the Council dinner on Friday evening.

Bradley Aouizerat, #19
Tzung Hsiai, #20
Laurent Mosnier, #21
R. Daniel Rudic, #22
Nancy Webb, #23

- The **Young Investigator Prizes in Thrombosis** recognize outstanding endeavors by new investigators for fundamental and applied research in thrombosis, including the mechanism, detection, treatment, and prevention of thrombotic disorders. Finalists will present their abstracts during Plenary Session III on Friday, May 7, in Continental Ballroom 4-5. The following finalist will present his abstract:

  Peter Bodary, #24

- The **Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research** lecture is scheduled for Friday, May 7, 1:30 PM in Continental Ballroom 4–5. This award recognizes an established investigator in the prime of their career who has made an outstanding contribution in the area of arteriosclerosis, thrombosis and vascular disease. The 2004 Hoeg Award will be presented to Robert A. Hegele, MD, Research Chair in Human Genetics, Blackburn Scientist, Robarts Research Institute, Professor, Medicine & Biochemistry, University of Western Ontario, London, ON, Canada. Dr. Hegele's presentation is titled "Insights Into the Metabolic Syndrome from Human Genetics".

- On Friday evening, May 8, immediately following the poster session, the AHA Council on Arteriosclerosis, Thrombosis, and Vascular Biology and the Council on Nutrition, Physical Activity and Metabolism are hosting a dinner in Continental Ballroom 4-5. Individuals with special dietary requirements are asked to request special meals (Vegetarian or Kosher) at least 24 hours in advance. Requests for special meals not ordered in advance cannot be honored.

  Dinner tickets may be purchased at the Registration Desk on Wednesday and Thursday, May 5–6. *Ticket required; there is a non-refundable fee for this event.*

Speaker Resource Room

The Speaker Resource Room is located in the **California Room** at the Hilton. Speakers with electronic presentations must submit their presentations to the Speaker Ready Room one day in advance. The Speaker Ready Room is open as follows and technicians are available to assist presenters:

Wednesday, May 5	3:00 PM–8:00 PM
Thursday, May 6	6:00 AM–7:30 PM
Friday, May 7	6:00 AM–7:30 PM
Saturday, May 8	7:00 AM–10:00 AM

On-Site Registration

On-site registration will take place in the East Lounge during the days and hours listed below:

Wednesday, May 5	4:00 PM–8:00 PM
Thursday, May 6	7:00 AM–6:00 PM
Friday, May 7	7:00 AM–7:00 PM
Saturday, May 8	7:00 AM–11:00 AM

On-site Registration Fees are:

AHA Council/Professional Member	$325
Premium Professional Member	$325
General Professional Member	$375
Early Career Member	$325
Trainee/Fellow/Student	$140
Technician	$140
Professional Nonmember	$425
Trainee/Fellow/Student Nonmember	$140
Technician — Nonmember	$140

Tickets for the ATVB Mentor of Women Award Luncheon may be purchased on Wednesday; tickets for the Council dinner may be purchased on Wednesday and Thursday.

IMPORTANT: To receive the discounted registration fee, trainees must provide a letter of verification of status on official letterhead or current professional ID when registering on-site.

Fees are payable to the American Heart Association by check drawn on a US bank or by American Express, Discover, MasterCard, or VISA.

The registration fee includes access to all official sessions of the 5th Annual Conference, with the exception of the Women's Leadership Committee Luncheon and the Council Dinner. *Fees will not be prorated for partial participation.*

Attendee Profile: This section is used to collect attendee demographics in order to tailor future conferences to attendee's needs. Please complete this section of your registration form and assist your program committee in its efforts to plan effective and successful programs.

We encourage participation by all individuals. If you have a disability, advance notification of any special needs will help us to serve you better.

Registration Refund/ Cancellation Policy

Registrants who cancel must request a refund of fees paid in writing. Cancellation requests received by April 16, 2004 received a full refund. Cancellation requests received by May 1, 2004, will be processed less a $50.00 cancellation administrative fee. **No refunds will be made after May 1, 2004.**

Please note: *The American Heart Association shall not be liable for cancellation of the 5th Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology caused by labor strikes, civil disorders, fires, weather conditions, or other acts of God or for any damages or losses resulting from such cancellations.*

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

Location and Hotel Information

The **Hilton San Francisco** is located at 333 O' Farrell Street, San Francisco, CA 94102. The hotel offers a variety of options to fill your leisure time, including a heated outdoor pool, whirlpool, state of the art fitness center and spa. Jogging is available nearby.

The most convenient airports are San Francisco International, which is 17 miles (30 minutes) away, Oakland International Airport, which is 18 miles (45 minutes) away, and San Jose International Airport, which is 50 miles (one and one-half hours) from the hotel. The conference will begin at 8:15 AM, Thursday morning, May 6, and will end at 12:30 PM, Saturday afternoon, May 8.

Satellite Symposium

Not part of the conference.

KinMet 2004-Kinetics and Kinetic Modeling of Lipoprotein, Lipid, and Sterol Metabolism in Systems Ranging from Human Subjects to Cultured Cells
Wednesday, May 5, 2004
NOON–6 PM
San Francisco Hilton, San Francisco, Calif.
Union Square Rooms 15 and 16

Scientists interested in lipoprotein and cellular lipid metabolism and kinetics are invited to attend KinMet 2004. This symposium has consistently attracted a diverse group of speakers and attendees from the entire spectrum of lipid, lipoprotein, and sterol metabolism will take place on May 5, the day before the main ATVB conference begins.

The symposium will focus on the application of kinetic modeling to the study of lipoprotein and sterol metabolism. The symposium will include keynote lectures and oral presentations designed to stimulate interaction and encourage the use of modeling in lipoprotein metabolism research. A session on cellular lipid and sterol dynamics will round out the program. We expect participants from diverse fields and hope that this symposium will encourage further interdisciplinary research.

The symposium will include three sessions.

- NOON–2 PM Mathematical Modeling of Biological Systems Using SAAM
- 2–4 PM Metabolism of Triglyceride-rich liporpoteins and LDL
- 4–6 PM HDL Metabolism

Additional information may be found at http://www.bioinformaticsservices.com/kinmet2004.html

No Smoking Policy

American Heart Association policy prohibits smoking in the meeting rooms. Thank you for your cooperation.

Recording Policy

Unauthorized recording of the AHA Scientific Sessions, Scientific Conferences and ASA Stroke Conference is prohibited, whether by video, still or digital photography, audio or any other recording or reproduction mechanism. This includes recording of presentations and supporting auidiovisual materials and of poster presentations and supporting poster materials.

The American Heart Association and American Stroke Association reserve the rights to all recordings or reproductions of presentations at AHA/ASA scientific conferences and meetings. Check the program for information about the availability of videotapes or audiotapes for purchase.

Exceptions to this policy prohibition are (1) non-flash photography of the speaker and his/her presentation materials is permitted by attendees or AHA/ASA accredited reporters upon the prior written consent of the AHA/ASA and of the speaker; (2) other photography and videotaping by AHA/ASA accredited reporters is permitted if not disruptive; (3) audiotape recording for strictly personal and non-commercial use is permitted if not disruptive; and (4) exhibitors may photograph their own booth for their own promotional purposes upon prior written consent of the AHA/ASA..

5th Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology

May 6–8, 2004

WEDNESDAY, MAY 5
4:00 PM–8:00 PM
East Lounge

Registration

THURSDAY, MAY 6
7:00 AM–8:00 AM

Registration — East Lounge
Continental Breakfast — Continental Parlor 7–9

Plenary Session I
8:15 AM–9:30 AM
Continental Ballroom 4–5

Moderator Nigel Mackman, La Jolla, CA

8:15 **Conference Opening Welcome**
Peter Newman, Milwaukee, WI

8:30 **Glycoprotein Ib in the Regulation of Platelet Adhesion & Activation**
Zaverio M. Ruggeri, La Jolla, CA

9:00 **Regulation of Cellular Signaling by Lipoprotein Receptors**
Joachim Herz, Dallas, TX

9:30 **Refreshment Break**

Concurrent Session I
10:00 AM–11:45 AM
Session A
Cellular Lipid Trafficking
Continental Ballroom 6

Moderators George Rothblat, Philadelphia, PA
David Williams, Stony Brook, NY

10:00 **Genetics and Genomics of Fat Regulation**
Kaveh Ashrafi, San Francisco, CA

10:30 **Adenoviral Mediated Overexpression of the Subtilisin Protease Pcsk9 Increases Plasma LDL-Cholesterol Levels in the Mouse** **1**
Kara N Maxwell, Rockefeller University, New York, NY; Denise Drazul-Schrader, George H Rothblat, Children's Hospital of Philadelphia, Philadelphia, PA; Jan L Breslow, Rockefeller University, New York, NY

10:45 **Glycine 420 Near the C-Terminal Transmembrane Domain of SR-BI Is Critical for Proper Delivery and Metabolism of HDL Cholesteryl Ester** **2**
Margery A Connelly, Saj Parathath, Daisy Sahoo, Yolanda F Darlington, SUNY Stony Brook, Stony Brook, NY; Heidi L Collins, George H Rothblat, Children's Hospital of Philadelphia, Philadelphia, PA; David L Williams, SUNY Stony Brook, Stony Brook, NY

11:00 **ABCA1 C-Terminal Mutations Reveal a Novel VFVNFA Motif that Is Required for Cholesterol Efflux Activity** **3**
Michael L Fitzgerald, Kei-ichiro Okuhira, Jennifer J Manning, Susan A Bell, Mason W Freeman, Mass. General Hospital/ Harvard Medical School, Boston, MA

11:15 **The Flux of Cholesterol Between Cells and Lipoproteins**
George Rothblat, Philadelphia, PA

Session B
Platelet Biology and Signaling
Continental Ballroom 5

Moderators Paul Bray, Houston, TX
Mark L. Kahn, Philadelphia, PA

10:00 **Collagen Receptor Signaling in Platelets**
Mark L. Kahn, Philadelphia, PA

10:30 **Acceleration of the Thrombotic Response to Vascular Injury by Selective Inhibition of Cox-2 or Prostacyclin Receptor Deletion In Vivo** **4**
Yan Cheng, Margaret Lucitt, Garret A FitzGerald, University of Pennsylvania School of Medicine, Philadelphia, PA

10:45 **Akt-1 in the Regulation of Functional Activity of Beta3 Integrins** 5
Juhua Chen, Sarmishtha De, Natalya Narijneva, Olga Razorenova, Eugene A Podrez, Tatiana V Byzova, Cleveland Clinic Foundation, Cleveland, OH

11:00 **Identification of Proteins Associated with Protease-Activated-Receptor-1 on Human Platelets** 6
Whyte G Owen, Allen C Bateman, Krisna Duong-Ly, Mayo Clinic College of Medicine, Rochester, MN

11:15 **Talin-integrin Interactions Control Integrin Activation**
David A. Calderwood, New Haven, CT

Session C
Vascular Cell Signaling, Cell Cycle Control & Gene Expression
Continental Ballroom 4

10:00 **Vaccines for Suppression of Angiogenesis and Disease**
Ralph Reisfeld, La Jolla, CA

10:30 **Two-Dimensional Differential Gel Electrophoresis for Proteomic Expression Analysis of Vascular Smooth Muscle Cells Exposed to Oxidant Stress** 7
Tilo Grosser, Kyle MacLea, Ian A Blair, Garret A FitzGerald, University of Pennsylvania, Philadelphia, PA

10:45 **PECAM-1 as a Modulator of STAT3 Phosphorylation During Endotoxin Challenge** 8
Suman Tandon, Sandra Canosa, Joseph A Madri, Yale University School of Medicine, New Haven, CT

11:00 **TNF-Alpha Signaling in Vascular Smooth Muscle Cells is Coupled to Forkhead Proteins through MAPK and PI3K Pathways** 9
Shaodong Guo, Ruhul Abid, William C Aird, Harvard Medical School, Boston, MA

11:15 **The Fourth Mammalian MAP Kinase Pathway, BMK1/ERK5, is Critical for Vascular Integrity**
Jiing-Dwan. Lee, La Jolla, CA

11:45 **Lunch break on your own**

11:45 **The Mentor of Women Award Luncheon**
Continental Parlor 7–9
Sponsored by the ATVB Women's Leadership Committee. Open to all conference attendees. *Separate registration and ticket required.*

Plenary Session II
1:30 PM–3:00 PM
Continental Ballroom 4–5

Moderator David Cheresh, La Jolla, CA

1:30 **Hypoxia and Blood Vessel Function**
Randall S. Johnson, La Jolla, CA

2:00 **Metabolic Alterations During the Perimenopausal Transition**
Molly C. Carr, Seattle, WA

2:30 **Genetics of Atherosclerosis: New Genes and Pathways**
Aldons J. Lusis, Los Angeles, CA

3:00 **Refreshment Break**

Concurrent Session II
3:30 PM–5:15 PM
Session A
Lipoprotein Metabolism
Continental Ballroom 6

Moderators Jay Horton, Dallas, TX
Murray W. Huff, London, ON

3:30 **De Novo Hepatic Lipid Synthesis and Lipoprotein Metabolism**
Jay Horton, Dallas, TX

4:00 **Tissue-Specific Hepatic Deletion of ABCA1 Indicates That the Liver is the Primary Site of HDL Formation in Vivo** 10
Jenelle M Timmins, Ji-Young Lee, Anny Mulya, Wake Forest University Health Sciences, Winston-Salem, NC; Kimberly Kluckman, University of North Carolina, Chapel Hill, NC; Liam R Brunham, Michael R Hayden, Centre for Molecular Medicine and Therapeutics, University of British Columbia, Vancouver, BC, Canada; Nuboyo Maeda, University of North Carolina, Chapel Hill, NC; John S Parks, Wake Forest University Health Sciences, Winston-Salem, NC

4:15 **The Role of Red Blood Cells in Reverse Cholesterol Transport** 11
Sandra K Larkin, Jennifer A Beckstead, CHORI, Oakland, CA; John S Parks, Wake Forest University, Winston-Salem, NC; Robert O Ryan, Frans A Kuypers, CHORI, Oakland, CA

4:30 **Very-Low-Density Lipoprotein Cholesteryl Ester Mass, but not VLDL Secretion Rate, is Decreased in Perfused Livers of Acyl-CoA: Cholesterol Acyltransferase-2 -/- Low-Density Lipoprotein Receptor -/- Mice When Compared to Controls** **12**
Richard G Lee, Ramesh N Shah, Janet K Sawyer, Lawrence L Rudel, Wake Forest University, Winston-Salem, NC

4:45 **Evolution of Lipid Transport Pathways**
Gregory S. Shelness, Winston-Salem, NC

Session B
Clinical Aspects of Thrombosis and Thrombolysis
Continental Ballroom 5

Moderators Bonno N. Bouma, La Jolla, CA
Jing-fei Dong, Houston, TX

3:30 **ADAMTS-13 and Ultra-large von Willebrand Factor**
Jing-fei Dong, Houston, TX

4:00 **The PI3-kinase Pathway Suppresses the Host Inflammatory Response and Coagulation in Endotoxemic Mice** **13**
Gernot Schabbauer, Rafal Pawlinski, Patricia Lopez-Estrada, Michael Tencati, Brian Pedersen, Nigel Mackman, The Scripps Research Institute, La Jolla, CA

4:15 **Lower Bioavailability and Weight Dependence of Enteric-Coated Aspirin Preparations** **14**
Dermot Cox, Andrew Maree, Michelle Dooley, Michael F Byrne, Ronan Conroy, Desmond J Fitzgerald, Royal College of Surgeons, Dublin, Ireland

4:30 **Inter-and Intraindividual Variability in the Pharmacological Response to Inhibitors of Cyclooxygenase-2** **15**
Susanne Fries, Tilo Grosser, John A Lawson, Susan DeMarco, Shiv C Kapoor, Garret A FitzGerald, University of Pennsylvania, Philadelphia, PA

4:45 **Thrombin-Activatable Fibrinolyis Inhibitor (TAFI): A Link Between Coagulation and Fibrinolysis and its Role in Wound Healing**
Bonno N. Bouma, La Jolla, CA

Session C
Vascular Development, Angiogenesis and Differentiation
Continental Ballroom 4

Moderators Gregory M. Lanza, St. Louis, MO
Charles D. Little, Kansas City, KS

3:30 **Computational Analysis of Endothelial Cell Behavior**
Charles D. Little, Kansas City, KS

4:00 **Nitric Oxide Plays an Essential Role in Tissue Ischemia-Induced Arteriogenesis/Angiogenesis in Postnatal Mice** **16**
Jun Yu, Bruno Escalante, William C Sessa, Yale University School of Medicine, New Haven, CT

4:15 **Targeted Inactivation of Vascular Endothelial Growth Factor Sensitizes Mouse Skin to UVB-Induced Cutaneous Photo Damage** **17**
Caterina Barresi, Heidemarie Rossiter, Minoo Ghannadan, Erwin Tschachler, University of Vienna Medical School, Vienna, Austria

4:30 **Identifying Early Vascular Genes Through Gene Trapping in Mouse ES Cells** **18**
Heidi Stuhlmann, Michael J Fitch, Luisa Campagnolo, Zhongmin Zou, Michael J Gregory, Smita V Chitnis, Scripps Research Institute, La Jolla, CA

4:45 **Combined Therapeutic and Molecular Imaging Agent for Treatment and Monitoring of Plaque Angiogenesis in Atherosclerosis**
Gregory M. Lanza, St. Louis, MO

Poster Session I
No-Host Reception
5:30 PM–7:30 PM
Yosemite Room

Posters P43 through P189 will be presented

FRIDAY, MAY 7
7:00 AM–8:00 AM

Registration — East Lounge
Continental Breakfast — Continental Parlor 7–9

Plenary Session III
8:00 AM–9:30 AM
Continental Ballroom 4–5

Moderators Alan Daugherty, Lexington, KY
Nigel Mackman, La Jolla, CA

Irvine H. Page Young Investigator Research Awards Competition

8:00 **MTP Gene Variation is Associated with Familial Combined Hyperlipidemia** 19
Bradley E Aouizerat, Yanina Natanzon, Medha Kulkarni, Dennis Drew, Donna Drown, Clive R Pullinger, Mary J Malloy, John P Kane, UCSF, San Francisco, CA

8:15 **Induction of NADPH Oxidase Subunit, Nox4, by Ox-PAPC: Implications of NAD(P)H Autofluorescence and MMP Expression** 20
Tzung K Hsiai, Michael H Ing, Juliana Hwang, Lucas DeMaio, Josh Bross, Alex Sevanian, University of Southern California, Los Angeles, CA

8:30 **Activated Protein C Variants with Normal Cytoprotective but Reduced Anticoagulant Activity** 21
Laurent O Mosnier, Andrew J Gale, Subramanian Yegneswaran, John H Griffin, The Scripps Research Institute, La Jolla, CA

8:45 **The Molecular Clock and Glucose Homeostasis** 22
R Daniel Rudic, University of Pennsylvania, Philadelphia, PA; Peter McNamara, Phenomix Corporation, San Diego, CA; Anne-Maria Curtis, University of Pennsylvania, Philadelphia, PA; Raymond C Boston, University of Pennsylvania, Kennet Square, PA; Satchidananda Panda, John B Hogenesch, Genomics Institute of the Novartis Research Foundation, San Diego, CA; Garret A FitzGerald, University of Pennsylvania, Philadelphia, PA

9:00 **Hydrolysis of Low-Density Lipoprotein by Secretory Phospholipase A2 Results in Spontaneous Particle Aggregation and Promotes Macrophage Foam Cell Formation** 23
Nancy R Webb, Clavia R Wooton-Kee, Boris B Boyanovsky, Munira S Nasser, Willem J de Villiers, University of Kentucky, Lexington, KY

Young Investigator Prizes in Thrombosis Competition

9:15 **Pioglitazone Treatment Protects against Arterial Thrombosis through Leptin-Dependent Pathway** 24
Peter F Bodary, Fernando B Vargas, Susan A King, Kevin J Wickenheiser, Daniel T Eitzman, University of Michigan, Ann Arbor, MI

9:30 **Refreshment Break**

Concurrent Session III
10:00 AM–11:45 AM
Session A
Mechanisms of Atherosclerosis
Continental Ballroom 6

Moderators Joseph L. Witztum, San Diego, CA
Stephen G. Young, San Francisco, CA

10:00 **Resolvins and Docosatrienes: Novel Anti-Inflammatory and Pro-Resolving Lipid Mediators**
Charles N. Serhan, Boston, MA

10:30 **ATM Haploinsufficiency Produces Vascular Insulin Resistance, Impaired Glucose Tolerance, Hypertension, and Accelerated Atherosclerosis in ApoE Null Mice** 25
Jochen G Schneider, Jie Ren, Chu Feng, Trey Coleman, Washington University, St Louis, MO; Michael B Kastan, St Jude Children's Research Hospital, Memphis, TN; Anthony J Muslin, Clay F Semenkovich, Washington University, St Louis, MO

10:45 **Inhibition of the Nuclear Factor EGR-1 Significantly Reduces Neointima Formation in a Rabbit Iliac Artery Balloon Angioplasty Model** 26
Johannes M Breuss, Manfred Cejna, Helga Bergmeister, Patrick Brunner, Udo Losert, Johannes Lammer, Bernd R Binder, Medical University of Vienna, Vienna, Austria

11:00 **Overexpression of ABCG5 and ABCG8 Attenuates Hypercholesterolemia and Atherosclerosis in LDLr -/- Mice on a Western Diet** 27
Kenneth R Wilund, Liqing Yu, Helen H Hobbs, Jonathan C Cohen, UT Southwestern Medical Center, Dallas, TX

11:15 **Why Does the Innate Immune System Recognize Oxidized LDL**
Joseph L. Witztum, La Jolla, CA

Session B
Nutrition, Obesity and Exercise
Continental Ballroom 5

Moderators Robert Eckel, Denver, CO
Peter J. Havel, Davis, CA

10:00 **Role of the Dietary Fat, Conjugated Linoleic Acid in Obesity**
Martha A. Belury, Columbus, OH

10:30 **Adiponectin is a Significant Risk Factor for Coronary Artery Disease in a Bi-Ethnic Population** 28
Guijing Lu, University of California, Davis, Davis, CA; Thomas A Pearson, University of Rochester, Rochester, NY; Peter J Havel, Kimber Stanhope, Bernard Ormsby, University of California, Davis, Davis, CA; Steve Holleran, Rajasekhar Ramakrishnan, Columbia University, New York, NY; Lars Berglund, University of California, Davis, Davis, CA

10:45 **Different Dietary Fats Influence Arterial Cholesterol Delivery from LDL: A Potential Mechanism for Beneficial Role of Fish Oil Diet** 29
Chuchun Chang, Rebecca Juliano, Tilla S Worgall, Mimi Ton, Richard J Deckelbaum, Toru Seo, Columbia University, New York, NY

11:00 **Endothelial Lipase, Obesity and the Metabolic Syndrome** 30
Marie E Paradis, Nutraceuticals and Functional Foods Institute, Québec, PQ, Canada; Karen O Badellino, Center for Experimental Therapeutics, University of Pennsylvania, PA; Daniel J Rader, Cardiology/Lipid Research Center, University of Pennsylvania Health System, PA; Jean Bergeron, Lipid Research Center, CHUL Research Center, PQ, Canada; Wiedad R Archer, Nutraceuticals and Functional Foods Institute, Québec, PQ, Canada; Patrick Couture, Lipid Research Center, CHUL Research Center, PQ, Canada; Nathalie Bergeron, Benoît Lamarche, Nutraceuticals and Functional Foods Institute, Québec, PQ, Canada

11:15 **Role of Adipocyte Hormones and Dietary Macronutrients in the Regulation Energy Homeostasis and Lipid Metabolism**
Peter J. Havel, Davis, CA

Session C
Cell-cell and Cell-matrix Interactions
Continental Ballroom 4

Moderators David Cheresh, La Jolla, CA
Christopher C.W. Hughes, Irvine, CA

10:00 **Delta-notch Interactions and the Regulation of Endothelial Cell Phenotype**
Christopher C.W. Hughes, Irvine, CA

10:30 **Class A Scavenger Receptors Increase Cell Attachment and Spreading via Distinct Signaling Pathways** 31
Dejan M Nikolic, Cecelia Gass, Steven R Post, University of Kentucky, Lexington, KY

10:45 **The Role of Shear Stress in Leukocyte-mediated Blood-Brain Barrier Failure in Vitro** 32
Ljiljana Krizanac-Bengez, Marc R Mayberg, Shobu Namura, Mohammed Hossain, Damir Janigro, The Cleveland Clinic Foundation, Cleveland, OH

11:00 **Moderate Doses of Recombinant Tissue Plasminogen Activator Equalize the Activities of Matrix** 33
Metalloproteinases and Their Inhibitors Dorothe Burggraf, Helge K Martens, Gerhard F Hamann, Ludwig-Maximilians-University, Munich, Germany

11:15 **Angiogenesis and Skeletal Development & Repair**
Jill Helms, San Francisco, CA

11:45 **Lunch break on your own**

Plenary Session IV
1:30 PM–3:00 PM
Continental Ballroom 4–5

Moderators John D. Brunzell, Seattle, WA
Lawrence L. Rudel, Winston-Salem NC

1:30 **Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research Lecture: Insights into the Metabolic Syndrome from Human Genetics**
Robert A. Hegele, London, ON, Canada

2:00 **Cellular Abnormalities of Angiogenic Blood Vessels**
Donald M. McDonald, San Francisco, CA

2:30 **Point Counterpoint: Big vs Small LDL - Which Are More Atherogenic?**
Lawrence L. Rudel, Winston-Salem, NC
John D. Brunzell, Seattle, WA

3:00 **Refreshment Break**

Concurrent Session IV
3:30 PM–5:15 PM
Session A
Leukocyte Biology in Atherosclerosis
Continental Ballroom 6

Moderators Peter A. Edwards, Los Angeles, CA
MacRae F. Linton, Nashville, TN

3:30 **Critical Role of Macrophage 12, 15-Lipoxygenase for the Development of Foam Cells and Atherosclerotic Lesions in Mice**
Klaus F. Ley, Charlottesville, VA

4:00 **Very Minimally Modified LDL Promotes LPS-Induced Proinflammatory Response** 34
Yury I Miller, Suganya Viriyakosol, Dorothy S Worrall, Agnes Boullier, Susan Butler, Joseph L Witztum, University of California, San Diego, La Jolla, CA

4:15 **Depletion of Invariant Natural Killer T Cells Decreases Atherosclerosis in LDL Receptor Null Mice** 35
Leah Purdy, Mirela Hasu, Stewart C Whitman, University of Ottawa Heart Institute, Ottawa, ON, Canada

4:30 **Correction of Dyslipidemia in Mice Reduces Atherosclerotic Lesion Size and Macrophage Content and Regulates Foam Cell Transcription of Cholesterol Efflux and Inflammatory Genes in Vivo** 36
Eugene Trogan, Ilda Bander, Snjezana Dogan, New York University School of Medicine, New York, NY; Igor Chereshnev, Mount Sinai School of Medicine, New York, NY; Edward A Fisher, New York University School of Medicine, New York, NY

4:45 **Macrophages in Atherogenesis**
MacRae F. Linton, Nashville, TN

Session B
Control of Coagulation
Continental Ballroom 5

Moderators Nigel Mackman, La Jolla, CA
Peter N. Walsh, Philadelphia, PA

3:30 **Tissue Factor: Roles in Thrombosis and Inflammation**
Nigel Mackman, La Jolla, CA

4:00 **Aptamer to Factor IXa and its Matched Antidote in Cardiopulmonary Bypass: An Alternative to Heparin and Protamine** 37
Shahid M Nimjee, Janelle R Keys, George A Pitoc, George Quick, Christopher P Rusconi, Bruce A Sullenger, Duke University Medical Center, Durham, NC

4:15 **Complete Rescue of Factor X-Deficient Mice from Embryonic and Perinatal Lethality by Knock-in of Factor X-Friuli (Pro343-->Ser)** 38
Shing Jen Tai, Roland Herzog, Valder Arruda, Alex Schlachterman, Rodney Camire, Parker Hudson, Children's Hospital of Philadelphia, Philadelphia, PA; Patricia Labosky, University of Pennsylvania, Philadelphia, PA; Katherine High, Children's Hospital of Philadelphia, Philadelphia, PA

4:30 **Foxc2, a Key Regulator of Insulin Resistance, Modulates TGF-Beta1-Induced PAI-1 Gene Expression** 39
Hideo Fujita, Mesut Eren, Corrie A Painter, Linda A Gleaves, Douglas E Vaughan, Tsutomu Kume, Vanderbilt University, Nashville, TN

4:45 **Control of Coagulation by Platelets, Factor XI and Protease Nexin-2**
Peter N. Walsh, Philadelphia, PA

Session C
Lipids, Metabolism and Atherogenesis
Continental Ballroom 4

Moderators Mason Wright Freeman, Boston, MA
Ronald M. Krauss, Oakland, CA

3:30 **The Impact of apoA-II on HDL Metabolism. Studies in the Human, the Mouse and the Rabbit**
Kerry Ann Rye, Sydney, Australia

4:00 **The Antiatherogenic Subcomponents of HDL** 40
Bela F Asztalos, Tufts University, Boston, MA; Serkalem Demissie, Adriene L Cupples, Boston University, Boston, MA; Dorothea E Collins, CSPCC, West Haven, CT; Katalin V Horvath, Ernst J Shaefer, Tufts University, Boston, MA

4:15 **Divergent Roles of the Catalytic and Bridging Functions of Hepatic Lipase in Atherosclerosis** 41
Helen L Dichek, Kun Qian, Nalini Agrawal, University of Washington, Seattle, WA

4:30 **ApoCI Improves the Inflammatory Response to LPS in Mice and Humans** **42**
Jimmy F Berbée, TNO-PG and LUMC, Leiden, Netherlands; Emile F Schippers, LUMC, Leiden, Netherlands; Caroline C van der Hoogt, TNO-PG and LUMC, Leiden, Netherlands; Jaap T van Dissel, LUMC, Leiden, Netherlands; Irma A Bakker, Erasmus MC, Rotterdam, Netherlands; Louis M Havekes, Patrick C Rensen, TNO-PG and LUMC, Leiden, Netherlands

4:45 **Innate Immunity Signaling, Pathways and Atherosclerosis**
Mason Wright. Freeman, Boston, MA

Poster Session II
No-Host Reception
5:30 PM–7:30 PM
Yosemite Room

Posters P190–P334 will be presented

Council Dinner
7:30 PM–9:30 PM
Continental Ballroom 4–5

Open to all conference attendees. Ticket Required.

SATURDAY, MAY 8
7:00 AM–8:00 AM
Congressional Hall

Registration — East Lounge
Continental Breakfast — Continental Parlor 7–9

Poster Session III
8:00 AM–10:00 AM
Yosemite Room

Posters P335–P484 will be presented

Plenary Session V
10:00 AM–12:15 PM
Continental Ballroom 4–5

Moderator Edward F. Plow, Cleveland, OH

10:00 **Getting Platelets In and Out of Blood**
John Hartwig, Boston, MA

10:30 **Gap Junctional Communication in the Vascular Wall**
Brian R. Duling, Charlottesville, VA

11:00 **ABC Transporters and Cellular Lipid Efflux**
Alan Tall, New York, NY

Adjourn

Poster Sessions

THURSDAY, MAY 6
Poster Session I
5:30 PM–7:30 PM
Yosemite Room

Release of Choline Lysophospholipids from Endothelial Cells **P43**
Pamela J Kell, Jane McHowat, Saint Louis University, St Louis, MO

WITHDRAWN **P44**

Angiotensin II Upregulates IL-18 Receptor-Alpha Expression in Vascular Smooth Muscle Cells **P45**
Saurabh Sahar, Roopashree S Dwarakanath, Linda Lanting, Ivan Todorov, Rama Natarajan, Beckman Research Institute of City of Hope, Duarte, CA

Plasminogen Protects Against Apoptosis in Monocytoid Cells **P46**
Jennifer W Mitchell, Nagyung Baik, Lindsey A Miles, The Scripps Research Institute, La Jolla, CA

Hypoxia Influence on Poly-Ubiquitination and Cell Death of THP-1 Cell-Derived Macrophages **P47**
Nobuhiko Kubo, Jichi Medical School, Tochigi, Japan; Hiroshi Kanno, Yokohama City University School of Medicine, Yokohama, Japan; Shigeki Yamada, Jichi Medical School, Omiya, Japan; Yusuke Furukawa, Jichi Medical School, Tochigi, Japan; Nakanobu Hayashi, GeneWorld Co, Tokyo, Japan; Isao Yamamoto, Yokohama City University School of Medicine, Yokohama, Japan; Mikihiko Kawano, Jichi Medical School, Tochigi, Japan; Ikunosuke Sakurabayashi, Jichi Medical School, Omiya, Japan; Kouichi Itoh, Jichi Medical School, Tochigi, Japan

Reduction of Plasminogen Activator Inhibitor-1 Gene and Protein Expression in Human Umbilical Vein Endothelial Cells Using Small Interfering RNA **P48**
Anneke Hecke, Georg August University Goettingen, Goettingen, Germany; Hillary Brooks, CNRS, Montpellier, France; Katrin Schäfer, Georg August University Goettingen, Goettingen, Germany; Bernard Lebleu, CNRS, Montpellier, France; Stavros Konstantinides, Georg August University Goettingen, Goettingen, Germany

Humoral Regulation of the Peripheral Vascular Clock **P49**
Dermot F Reilly, Garret A FitzGerald, University of Pennsylvania, Philadelphia, PA

Cathepsin D Degrades Thioredoxin in Endothelial Cells: Important Role in Oxidative Stress and Apoptosis **P50**
Judith Haendeler, University of Frankfurt, Frankfurt, Germany

Early Activation of Endothelial Cells in Response to High Flow Regulates Carotid Arterial Remodeling **P51**
Eiketsu Sho, Stanford University, Palo Alto, CA; Hiroshi Nanjo, Akita University, Akita, Japan; Mien Sho, Stanford University, Palo Alto, CA; Masato Takahashi, Akihiro Sugita, Mikio Kobayashi, Koichi Kawamura, Hirotake Masuda, Akita University, Akita, Japan

C-Reactive Protein regulates the cAMP Response Element Binding Protein in Vascular Smooth Muscle Cells **P52**
Jane E Reusch, Charles Jobin, Peter A Watson, Albina Nesterova, Jodae Grippa, Denver VAMC, Denver, CO

WITHDRAWN **P53**

Expression and Activation of Matrix Metalloproteinases and Tissue Inhibitors of MMPs in a Murine Vein Graft Model of Intimal Hyperplasia **P54**
Suzanne M Nicholl, Yiping Zou, Daniel D Cheeran, Elisa Roztocil, Mark G Davies, University of Rochester Medical Center, Rochester, NY

Urokinase-Induced Smooth Muscle Cell Proliferation Requires Plasmin-Dependent Epidermal Growth Factor Receptor Activation **P55**
Elisa Roztocil, Suzanne M Nicholl, Mark G Davies, University of Rochester Medical Center, Rochester, NY

Nongenomic Estrogen Regulation of NFkB and Heat Shock Factor 1 Activation in Human Coronary Endothelial Cells In Vitro **P56**
Fiona N Mbai, University of California, Davis, Davis, CA; Karyn L Hamilton, University of Florida, Gainesville, FL; Sanjiv Gupta, James P Stice, Anne A Knowlton, University of California, Davis, Davis, CA

WITHDRAWN **P57**

In Vivo Cardiac Endothelial Responses to Lipopolysaccharide **P58**
John G Maresh, Huaxia Xu, Nan Jiang, Ralph V Shohet, UT Southwestern, Dallas, TX

Dimerization of the Human Receptors for Prostacyclin and Thromboxane Facilitates Thromboxane Receptor-Mediated cAMP Generation **P59**
Stephen J Wilson, Ekaterina Kostetskaia, Aoife M Roche, Emer M Smyth, University of Pennsylvania, Philadelphia, PA

Recombinant Human Activated Protein C Increases Tissue Factor Expression in Human Pulmonary Artery Endothelial Cells P60
Sheng-Qian Wu, William C Aird, Beth Israel Deaconess Medical Center, Boston, MA

Azelnidipine Indirectly Induces Coronary Endothelial Tube Formation through PKC by Increasing the Secretion of Vascular Endothelial Growth Factor from Smooth Muscle Cells P61
Shin-ichiro Miura, Hiroyuki Tanigawa, Masahiro Fujino, Yoshino Matsuo, Keisuke Okamura, Yoshinari Uehara, Keijiro Saku, Fukuoka University School of Medicine, Fukuoka, Japan

Endothelial Cytochrome P450 2C9 Stimulates Endothelial Cell Migration and Angiogenesis via Induction of Cyclooxygenase-2 P62
Ruth Michaelis, Rudi Busse, Ingrid Fleming, Frankfurt University Hospital, Frankfurt/M, Germany

WITHDRAWN P63

A Novel Mouse Model for Rapid Screening of Antirestenotic Drugs using a Drug-eluting Perivascular Device P64
Bart J Van Vlijmen, Nuno M Pires, TNO-PG/LUMC, Leiden, Netherlands; Paul H Quax, TNO-PG, Leiden, Netherlands; Wim E Hennink, UIPS, Utrecht, Netherlands; Louis M Havekes, TNO-PG/LUMC, Leiden, Netherlands; J W Jukema, LUMC, Leiden, Netherlands

A Precise Method for Tissue Volume Changes in Experimental Edema P65
Alexandre Kiazand, Paul Wilburn, Stanley G Rockson, Stanford School of Medicine, Stanford, CA

Direct Effect of 3-Hydroxyl-3-Methyl Coenzyme A Reductase Inhibitors (Statins) to Human Endothelial Cells and on Angiogenesis Depends on Kind of Statin P66
Masayuki Katsumoto, Tetsuji Shingu, Rieko Kuwashima, Miwa Miyoshi, Atsunori Nakata, Yuka Umeda, Shuichi Nomura, Kazuaki Chayama, Graduate School of Biomedical Sciences, Hiroshima University, Hiroshima, Japan

Bioflavonoids Effectively Inhibit Smooth Muscle Cell-Mediated Contraction of Collagen Matrix Induced by Angiotensin II P67
Vadim Ivanov, Svetlana V Ivanova, M W Roomi, Aleksandra Niedzwiecki, Matthias Rath, Matthias Rath, Inc, Santa Clara, CA

Role for Apoptotic Bodies in the Cellular Release of Matrix Gla Protein P68
Henri M Spronk, Leon J Schurgers, Berry A Soute, Cees Vermeer, University of Maastricht, Maastricht, Netherlands; Peter L Weissberg, Cathy M Shanahan, Diane Proudfoot, University of Cambridge, Cambridge, United Kingdom

Vascular Cell Responses to Physiologically Relevant Mechanical and Biochemical Stimuli P69
Jennifer A McCann, Thomas J Webster, Karen M Haberstroh, Purdue University, West Lafayette, IN

Angiostatin Inhibits Leukocyte Invasion by Blocking Mac-1-Enhanced Plasminogen Activation P70
Elzbieta Pluskota, Cleveland Clinic Foundation, Cleveland, OH; Khalil Bdeir, Douglas B Cines, University of Pennsylvania Hospitals, Philadelphia, PA; Edward F Plow, Cleveland Clinic Foundation, Cleveland, OH

Defining the Regions of Fn Required for Strong Interaction with the Platelet Integrin Alpha2b/Beta3a Under Shear by Site-Directed Mutagenesis P71
Diwakar Chada, University of Oklahoma, Norman, OK

Protection of Kallikrein from Inhibition by C1-Inhibitor but not Alpha1-PI Pittsburgh in the Presence of Endothelial Cells P72
Sriram Ravindran, Philip A Patston, University of Illinois at Chicago, Chicago, IL

Regulation of Factor VIIa and Factor VIIa-Tissue Factor by Protein C Inhibitor P73
Yolanda M Fortenberry, Anne B Cook, Frank C Church, University of North Carolina, Chapel Hill, NC

Transcriptional Regulation of the Mouse TAFI Promoter by TNFα — Roles of C/EBP and NFκB P74
Ning Jiang, Mark Currie, Roger Stanzel, Marlys L Koschinsky, Michael Boffa, Queen's University, Kingston, ON, Canada

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Comparison Between the Friedewald Formula and ß-Quantification for the Determination of Plasma LDL-Cholesterol Concentrations in a Clinical Setting P76
André J Tremblay, Hugo Morrissette, Jean-Marc Gagné, Claude Gagné, Patrick Couture, Laval University, Ste-Foy, PQ, Canada

Thrombogenic Potential Derived from the Whole Blood Rheological Profile **P77**
Rodger L Bick, Thrombocare Laboratories, Dallas, TX; Kenneth R Kensey, William N Hogenauer, Rheologics, Inc, Exton, PA

Identification of Two Serine Phosphorylation Sites in Platelet Endothelial Cell Adhesion Molecule-1 **P78**
Robert E Arthur, Cathy M Paddock, Peter J Newman, Debra K Newman, Blood Research Institute, Milwaukee, WI

Inhibition of Platelet Activation in Rats with Severe Congestive Heart Failure by Treatment with an Endothelial NO-Synthase Transcription Enhancer **P79**
Andreas Schäfer, Daniela Fraccarollo, Julian Widder, Medizinische Klinik, Wuerzburg, Germany; Martin Eigenthaler, Ulrich Walter, Universitätsklinik Wuerzburg, Wuerzburg, Germany; Georg Ertl, Johann Bauersachs, Medizinische Klinik, Wuerzburg, Germany

An Alternatively Spliced Isoform of PECAM-1 Lacking Exon 15 and Containing a Unique C-Terminus is Highly Expressed in Murine Platelets and Endothelial Cells and is Functionally Distinct from Wild-Type PECAM-1 **P80**
Cathy Paddock, Cunji Gao, Trudy Holyst, Debra K Newman, Peter J Newman, The Blood Center, Milwaukee, WI

Analysis of Platelet Lipid "Rafts": A Mass Spectrometry Approach **P81**
Martina Foy, Achim Treumann, Desmond J Fitzgerald, Patricia B Maguire, Royal College of Surgeons in Ireland, Dublin, Ireland

Thrombin and Convulxin Stimulation: Correlation with Phosphatidylserine Flip-flop in the Respective Membranes **P82**
Jeffrey W Norris, Naomi J Walker, Sheri Looper, Ann E Oliver, John H Crowe, Fern Tablin, University of California, Davis, Davis, CA

Phosphoproteomics of the Platelet **P83**
Patricia B Maguire, Desmond J Fitzgerald, Royal College of Surgeons in Ireland, Dublin, Ireland

Angiotensin-Converting Enzyme 2 Gene Polymorphism Association with Systolic Blood Pressure and Renal Damage in Metabolic Syndrome **P84**
Zhiming Zhu, Jian Zhong, Tingbing Cao, Zhencheng Yan, Chengyi Shen, Department of Hypertension and Endocrinology, Daping Hospital, Third Military Medical University, Chongqing, China

Alpha-Linolenic Acid from Walnuts and Flax Increases Flow-Mediated Dilation of the Brachial Artery in a Dose-Dependent Fashion **P85**
Sheila G West, Linda Boseska, Paul Wagner, Stephanie L Schoemer, Guixiang Zhao, Deborah H Maddox, Penny M Kris-Etherton, The Pennsylvania State University, University Park, PA

Transport of Vitamin E Across the Intestinal Epithelial Cells **P86**
Kamran Anwar, M Mahmood Hussain, SUNY Downstate Medical Center, Brooklyn, NY

Impaired Acetylcholine-Mediated Vasodilation in Obesity is not due to Reduced Responsiveness or Increased Cholinesterase Activity **P87**
Greta L Hoetzer, Gary P Van Guilder, Jared J Greiner, Yoli Casas, Rebecca S Keith, Brian L Stauffer, Christopher A DeSouza, University of Colorado, Boulder, CO

Chromium Picolinate and Biotin Combination Reduces Coronary Risk Factors **P88**
Vijaya Juturu, Manley Finch, Nutrition21, Inc, Purchase, NY; Jeff Geohas, Radiant Research, Chicago, IL; Danielle Greenberg, James R Komorowski, Nutrition21, Inc, Purchase, NY

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Isolation and Characterization of Pro-Atherogenic Subfractions of Low-Density Lipoproteins from Type II Diabetes **P90**
Hsin H Chen, Max T Huang, Joe L Raya, Jun-Hai Yang, Addison A Taylor, Chu-Huang Chen, Christie M Ballantyne, Henry J Pownall, Antonios Xydakis, Baylor College of Medicine, Houston, TX; Charles V Smith, Columbus Children's Research Institute, Columbus, OH; Chao Y Yang, Baylor College of Medicine, Houston, TX

Apolipoprotein B Determines Overall Risk and Lp(a) Subgroup Risk for Recurrent Coronary Events in Postinfarction Patients with Metabolic Syndrome **P91**
James P Corsetti, Wojciech Zareba, Arthur J Moss, Charles E Sparks, University of Rochester, Rochester, NY

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Nalini Santanam, LSUHSC, New Orleans, LA; Sonia-Athina P Karabina, INSERM, Paris, France; Sampath Parthasarathy, LSUHSC, New Orleans, LA

Alterations in Antioxidant Levels in Human Serum and Arteries as a Response to the Increased Oxidative Stress in the Atherosclerotic Vessel Wall **P94**
Ivan Eggens, F Åberg, Y Zhang, Karolinska Institute, Stockholm, Sweden

Linolenic Acid is Associated with Oxidative Stress in Healthy Women **P95**
Mahdi O Garelnabi, Jill White-Welkley, Emir Veledar, Jerome Abramson, Katherine Alexander, Brandon Petro, Nancy Murrah, William Weintraub, Emory University, Atlanta, GA; Sampath Parthasarathy, Louisiana State University Health Science Center, New Orleans, LA

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Lipoprotein-Associated Phospholipase is not Increased in Association with Insulin Resistance **P97**
Tracey L McLaughlin, Fahim Abbasi, Stanford University, Stanford, CA; Robert Wolfert, diaDexus, South San Francisco, CA; Cindy Lamendola, Gerald M Reaven, Stanford University, Stanford, CA; Peter Reaven, Dept of Veterans Affairs, Phoenix, AZ

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Hiromi Tasaki, Shunn-ichi Nihei, Noriko Hirakawa, Tsuyoshi Toyokawa, Yasuhide Nakashima, Univ of Occup Environ Health, Kitakyushu, Japan; KLD01 Research Group

***Hyplip2,* a New Gene for Combined Hyperlipidemia and Increased Atherosclerosis** **P99**
Peter Gargalovic, Xuping Wang, Xiaohui Wu, Jack Wong, Hongxiu Qi, Pingzi Wei, University of California Los Angeles, Los Angeles, CA; Jennifer L Gu, California Institute of Technology, Pasadena, CA; Lawrence W Castellani, Aldons J Lusis, University of California Los Angeles, Los Angeles, CA

ATP Binding and Hydrolysis are Required but not Sufficient for ABCA1-Mediated Cholesterol Redistribution **P100**
Chongren Tang, Ashley M Vaughan, Jhon F Oram, University of Washington, Seattle, WA

Amyloid-Beta Peptide in Atherogenesis: A Novel Role beyond Alzheimer's Disease **P101**
Ling Li, Hongquan Wan, Dongfeng Cao, Ken-Ichiro Fukuchi, Univ of Alabama at Birmingham, Birmingham, AL

Macrophage-Specific Expression of Paraoxonase-1 via Stem Cell Replacement Reduces Atherosclerosis **P102**
Alejandra Gutierrez, Jon H Miyake, San Diego State University Heart Institute, San Diego, CA; Linda K Curtiss, Scripps Research Institute, San Diego, CA; Christopher K Glass, Andrew C Li, University of California San Diego, San Diego, CA; Kimberly R Davis, San Diego State University Heart Institute, San Diego, CA; Aldons J Lusis, University of California Los Angeles, Los Angeles, CA; Roger A Davis, San Diego State University Heart Institute, San Diego, CA

Hyperhomocysteinemia Causes Abnormal HDL Metabolism in CBS/apoE Mice **P103**
Dan Liao, Hongmei Tan, Xiaohua Jiang, John W Gaubatz, Lawrence Chan, Henry J Pownall, Xiaofeng Yang, Hong Wang, Baylor College of Medicine, Houston, TX

Cholesterol-Enriched Chow Induces Atherosclerosis without Concomitant Obesity and Insulin Resistance **P104**
Karsten Hartvigsen, Christoph J Binder, Wulf Palinski, Joseph L Witztum, Andrew C Li, University of California, San Diego, La Jolla, CA

Single-Dose Tolerability, Pharmacokinetics, and Cholesterol Mobilization in HDL-C Fraction Following Intravenous Administration of ETC-642, a 22-mer ApoA-I Analogue and Phospholipids Complex, in Atherosclerosis Patients **P105**
John Miles, Mehmood Khan, Mayo Clinic, Rochester, MN; Chris Painchaud, Narendra Lalwani, Sandra Drake, Jean-Louis Dasseux, Esperion Therapeutics, Ann Arbor, MI

A Novel Family of Atherogenic Oxidized Phospholipids Promotes Platelet Activation via Scavenger Receptor CD36 **P106**
Robert G Salomon, Case Western Reserve University, Cleveland, OH; Tatiana V Byzova, Cleveland Clinic Foundation, Cleveland, OH; Eugenia Polyakov, M Sun, Case Western Reserve University, Cleveland, OH; Paula J Finton, Cleveland Clinic Foundation, Cleveland, OH; Roy L Silverstein, Maria Febbraio, Cornell University Weill Medical College, New York, NY; Stanley L Hazen, Paul DiCorleto, Eugene A Podrez, Cleveland Clinic Foundation, Cleveland, OH

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Lifeng Zhang, Tomasz Mazurek, Mark Kahn, Anthony Carabasi, Paul J DiMuzio, Rhoda Leichter, Thomas Jefferson University, Philadelphia, PA; Andrew Zalewski, Shawn O'Brien, Leli Sarov-Blat, GlaxoSmithKline, King of Prussia, PA; Ping Zhang, Yi Shi, Thomas Jefferson University, Philadelphia, PA

Electrical Pacemaker Reduces Coronary Artery Atherosclerosis as Well as Cardiac Events **P108**
Mohammad E Mortada, Mouatou Mouanoutoua, Suhail Allaqaband, Ramagopal Tumuluri, Yoseph Shalev, Anjan Gupta, Tanvir K Bajwa, Masood Akhtar, Vaeri Chekanov, Aurora Sinai Medical Center, Milwaukee, WI

Deficiency in Ataxia Telangiectasia Mutated Gene Aggregates Atherosclerosis and Dyslipidemia of Apolipoprotein E Knockout Mice P109
Hong Yang, MingJian Shi, Zhongmao Guo, Meharry Medical College, Nashville, TN

Thromboxane A2 Receptor in Monocyte/Macrophages Does not Affect Atherosclerosis in Apolipoprotein E-Deficient Mice P110
Xin Zhuge, Kyoto University Hospital, Kyoto, Japan; Hidenori Arai, Kyoto University Graduate School of Medicine, Kyoto, Japan; Yang Xu, Toshinori Murayama, Kyoto University Hospital, Kyoto, Japan; Takuya Kobayashi, Shuh Narumiya, Toru Kita, Kyoto University Graduate School of Medicine, Kyoto, Japan; Masayuki Yokode, Kyoto University Hospital, Kyoto, Japan

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Kerry W Ko, Aksam J Merched, Lawrence Chan, Baylor College of Medicine, Houston, TX

Cyclic Longitudinal Stretch-Induced Changes in Adhesion Molecule and MMP Expression in Porcine Carotid Arteries Perfused Ex Vivo P113
Douglas W Hamilton, J S VanEpps, Erin L Driggers, Mohammed S El-Kurdi, Chuanyue Wu, David A Vorp, University of Pittsburgh, Pittsburgh, PA

IL6 Promoter Polymorphisms are Associated with Subclinical Atherosclerosis in Families from the Diabetes Heart Study P114
Kathryn P Burdon, Carl D Langefeld, Lynne E Wagenknecht, Stephane R Beck, Jeffrey J Carr, Barry I Freedman, Donald W Bowden, Wake Forest University School of Medicine, Winston-Salem, NC

Analysis of the Functional Role of Interleukin-6 Promoter Haplotype in a Macrophage Cell Model P115
Haris A Khwaja, Fiona R Green, Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom

Low-Dose Aspirin Reduces Atherogenesis in Low-Density Lipoprotein Receptor-Deficient Mice with Established Vascular Lesions P116
Tillmann Cyrus, Washington University, St Louis, MO; Yuemang Yao, Domenico Pratico, University of Pennsylvania, Philadelphia, PA

Acrylamide from Processed Food: New Potential Risk Factor for Plaque Rupture P117
Marek Naruszewicz, Danuta Zapolska-Downar, Pomeranian Medical University, Szczecin, Poland; Grazyna Nowicka, National Institute of Food and Nutrition, Warsaw, Poland; Hanna Bukowska, Aldona Siennicka, Pomeranian Medical University, Szczecin, Poland

In Vivo Endothelial Adhesion Molecule Signaling Induced by Low-Density Lipoprotein P118
Lynne Verna, Chintya Ganda, Michael Stemerman, UC Riverside, Riverside, CA

Atherogenic Effect in *Per1* Transgenic Rats fed a High-Cholesterol Diet P119
Rika Numano, Institute of Medical Science Tokyo University, Tokyo, Japan; Tokuko S Wiedemann, Tokyo Vascular Disease Institute, Tokyo, Japan; Hajime Tei, Yoshiyuki Sakaki, Institute of Medical Science Tokyo University, Tokyo, Japan; Fujio Numano, Tokyo Vascular Disease Institute, Tokyo, Japan

A Possible Novel Function for Lp(a) as a Carrier of Oxidized Phospholipids P120
Claes Bergmark, Karolinska Institute, Stockholm, Sweden; Sotirios Tsimikas, Joseph Witztum, Specialized Center for Arteriosclerosis Research, University of California, San Diego, La Jolla, CA

Discordant Effects of Metoprolol, a β-Blocker, on Vascular Structure and Reactivity in Atherosclerotic Rabbits Induced by Cholesterol and Balloon Injury P121
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Robert J Brown, André Gauthier, University of Ottawa Heart Institute, Ottawa, ON, Canada; Robin J Parks, Ottawa Health Research Institute, Ottawa, ON, Canada; Ruth McPherson, Daniel L Sparks, Joshua R Schultz, Zemin Yao, University of Ottawa Heart Institute, Ottawa, ON, Canada

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Jean-Louis Dasseux, Esperion Therapeutics, Inc, Ann Arbor, MI

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Daniel Teupser, University Hospital Leipzig, Leipzig, Germany; Marietta Tan, Jan L Breslow, The Rockefeller University, New York, NY

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Sinead M Toomey, Caroline T Sharkey, Christina M Dooley, Desmond J Fitzgerald, Orina A Belton, Royal College of Surgeons in Ireland, Dublin, Ireland

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Program Schedule

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Plenary Session I
Continental Ballroom 4–5

Conference Opening

Glycoprotein Ib in the Regulation of Platelet Adhesion & Activation

Regulation of Cellular Signaling by Lipoprotein Receptors

10:00–11:45

Concurrent Session IA	Concurrent Session IB	Concurrent Session IC
Continental Ballroom 6	Continental Ballroom 5	Continental Ballroom 4
Cellular Lipid Trafficking	*Platelet Biology and Signaling*	*Vascular Cell Signaling Cell Cycle Control & Gene Expression*

11:45–1:30

Lunch on your own

The Mentor of Women Award Luncheon
Sponsored by the ATVB Women's Leadership Committee
Continental Parlor 7–9
Open to all conference attendees. Ticket required.

1:30–3:00

Plenary Session II
Continental Ballroom 4–5

Hypoxia and Blood Vessel Function

Metabolic Alterations During the Perimeopausal Transition

Genetics of Atherosclerosis: New Genes and Pathways

3:30–5:15

Concurrent Session IIA	Concurrent Session IIB	Concurrent Session IIC
Continental Ballroom 6	Continental Ballroom 5	Continental Ballroom 4
Lipoprotein Metabolism	*Clinical Aspects of Thrombosis and Thrombolysis*	*Vascular Development Angiogenesis and Differentiation*

5:30–7:30

Poster Session I
Abstracts P43–P189
Yosemite Room

Friday, May 7

8:00–9:30

Plenary Session III
Continental Ballroom 4–5

Irvine H. Page Young Investigator Research Awards Competition

Young Investigator Prizes in Thrombosis Competition

10:00–11:45

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Mechanisms of Atherosclerosis	*Nutrition, Obesity and Exercise*	*Cell-cell and Cell-matrix Interactions*

11:45–1:30

Lunch on your own

1:30–3:00

Plenary Session IV
Continental Ballroom 4–5

Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research Lecture: Insights into the Metabolic Syndrome from Human Genetics

Cellular Abnormalities of Angiogenic Blood Vessels

Point Counterpoint: Big versus Small LDL — Which are more Atherogenic?

3:30–5:15

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5:30–7:30

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Abstracts P190–P334
Yosemite Room

7:30–9:30

Council Dinner
Continental Ballroom 4–5
Ticket required

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8:00–10:00

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10:00–11:30

Plenary Session V
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Getting Platelets In and Out of Blood

Gap Junctional Communication in the Vascular Wall

ABC Transporters and Cellular Lipid Efflux

12:00

Closing Remarks

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May 15–17, 2004

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Omni Shoreham Hotel
Washington, DC
May 17–19, 2004

1st Annual Symposium of the American Heart Association's Council on Basic Cardiovascular Sciences: Stress Signals, Molecular Targets, and the Genome
Dolce Skamania Lodge
Stevenson, WA
July 14–18, 2004

Grover Conference on the Pulmonary Circulation: Genetic and Environmental Determinants of Pulmonary Endothelial Cell Function
Lost Valley Ranch and Conference Center
Sedalia, CO
September 9–12, 2004

58th Annual Fall Conference and Scientific Sessions of the Council for High Blood Pressure Research in association with the Council on the Kidney in Cardiovascular Disease
Marriott Chicago Downtown
Chicago, IL
October 9–12, 2004

Scientific Sessions
New Orleans, LA
November 7–10, 2004

Clinical Management of Hypertension
Hilton New Orleans Riverside
New Orleans, LA
November 10, 2004

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New Orleans, LA
February 2–4, 2005

2nd International Conference on Women, Heart Disease, and Stroke
Royal Pacific Resort
Orlando, Florida
February 16–19, 2005

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Omni San Diego Hotel
San Diego, CA
February 17–20, 2005

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