

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](http://www.myamericanheart.org/conferences)  
Email: [scientificconferences@heart.org](mailto:scientificconferences@heart.org)*

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**Sankyo Pharma Inc.**  
**Wyeth**

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](http://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 lipoproteins 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 audiovisual 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 VFNFA 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 Narijeva, 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 Fibrinolysis 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 Metalloproteinases and Their Inhibitors** 33  
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**

**FRIDAY**

## 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 Chereshev, 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; Mikihiro 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 Maresch, Huaxia Xu, Nan Jiang, Ralph V Shoheit, 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 TNF $\alpha$  — Roles of C/EBP and NF $\kappa$ B** P74  
Ning Jiang, Mark Currie, Roger Stanzel, Marlys L Koschinsky, Michael Boffa, Queen's University, Kingston, ON, Canada
- WITHDRAWN** P75
- Comparison Between the Friedewald Formula and  $\beta$ -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
- MOVED TO ORAL ABSTRACT #28** P89
- 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
- WITHDRAWN** P92
- Do Ox-Lipids Bind to Caveolae-Like Membrane Domains?** P93  
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 Murreah, William Weintraub, Emory University, Atlanta, GA; Sampath Parthasarathy, Louisiana State University Health Science Center, New Orleans, LA
- WITHDRAWN** P96
- 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
- Clinical Trial of LDL-Apheresis Therapy by Direct HemoPerfusion Column: Multicenter Trial** P98  
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
- Characteristics of Inflammatory Responses in Advanced Human Atherosclerotic Plaque** P107  
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
- WITHDRAWN** P111
- Macrophage-Specific Transgenic Overexpression of 15-Lipoxygenase Attenuates Atherosclerosis in ApoE-Deficient Mice** P112  
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  $\beta$ -Blocker, on Vascular Structure and Reactivity in Atherosclerotic Rabbits Induced by Cholesterol and Balloon Injury** P121  
Jun Pu, Guo-Xiong Cheng, Cun-Tai Zhang, Lin Wang, Nian Liu, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China
- Fibrinogen-Induced Arterial Constriction: A Role for Fragment D** P122  
David Lominadze, University of Louisville, Louisville, KY; N Tsakadze, J C Falcone, S E D'Souza
- The Association of Serum Total Antioxidant Status, C-Reactive Protein and MCP-1 with Cardiac Syndrome X** P123  
Young-Keun On, Min Su Hyon, Sung Koo Kim, Young Joo Kwon, Soonchunhyang University Hospital, Seoul, Republic of Korea
- IgM Antibodies to OxLDL are Elevated in the Human Fetus** P124  
Douglas A Woelkers, Christoph J Binder, University of California, San Diego, San Diego, CA; James R Roberts, University of Pittsburgh, Pittsburgh, PA; Joseph L Witztum, University of California, San Diego, San Diego, CA
- Undercarboxylated Matrix Gla-Protein is Associated with Vascular Calcification** P125  
Leon J Schurgers, Berry A Soute, Cees Vermeer, University Maastricht, Maastricht, Netherlands

- Negative Associations of Active Vitamin D Levels with Coronary and Carotid Atherosclerosis are Independent from Bone Metabolism in Postmenopausal Women** P126  
Ryoko Sato, Kouji Kajinami, Hironobu Akao, Michihiko Kitayama, Akihiro Fukuda, Seiyuu Kanemithu, Hideaki Okazaki, Noboru Takekoshi, Kanazawa Medical University, Ishikawa, Japan
- Neointima Hyperplasia in Apolipoprotein E-Deficient Mouse Strains with Different Atherosclerosis Susceptibility** P127  
Weibin Shi, Hong Pei, Joshua J Fischer, Jessica C James, Alan H Matsumoto, Gregory A Helm, Ian J Sarembock, University of Virginia, Charlottesville, VA
- Atherin: A Newly Identified Low-Density Lipoprotein-Binding Protein in Human Atherosclerotic Lesions** P128  
Ann M Lees, Beth Israel Deaconess Medical Center, Cambridge, MA; Anne E Deconinck, Harvard-MIT Division of Health Sciences and Technology, Cambridge, MA; Bruce D Campbell, Atherex, Inc, Cambridge, MA; Robert S Lees, Harvard-MIT Division of Health Sciences and Technology, Cambridge, MA
- Cytosolic Phospholipase A<sub>2</sub> Involved in the Signal Pathway of Induction of Apoptosis in Human Umbilical Vein Endothelial Cells by Minimally Modified Low-Density Lipoprotein** P129  
Yun Wang, Bing H Wang, Department of Biochemistry and Molecular Biology, School of Medicine, Wuhan University, Wuhan, China; Xin Zhou, Gene Diagnosis Center of Zhongnan Hospital, Wuhan University, Wuhan, China
- Cyclooxygenase-1 Gene Deletion Inhibits Atherosclerosis in the ApoE<sup>-/-</sup> Mouse Model** P130  
Sarah E McClelland, Sinead M Toomey, Brendan Hahren, Desmond J Fitzgerald, Orina A Belton, Royal College of Surgeons in Ireland, Dublin, Ireland
- WITHDRAWN** P131
- Oxidant-Induced Atherogenic Injury Involves the Extracellular Matrix-Integrin-Cytoskeletal Axis** P132  
Charles R Partridge, Texas A&M University, College Station, TX; Gerald A Meininger, Emily Wilson, Texas A&M University Health Science Center, College Station, TX; Kenneth S Ramos, University of Louisville School of Medicine, Louisville, KY
- Neurogenic and Platelet Neuropeptide Y Amplifies Neointima Formation after Angioplasty in Rats** P133  
Lijun Li, Ken Abe, Zofia Zukowska, Georgetown University Medical Center, Washington, DC
- WITHDRAWN** P134
- ASCL001 Reduces Atherosclerosis by Elevating Plasma HDL Level** P135  
Jae-Hoon Choi, Ki-Hwan Nam, Jiyun Kim, Young-Han Ryu, Seung-Phil Park, Jong-Gil Park, Goo Taeg Oh, Korea Research Institute of Bioscience and Biotechnology, Daejeon, Republic of Korea
- Insulin Resistance Modulates the Expression of Arterial Proteoglycans: Implications for Atherogenesis** P136  
Göran Bondjers, Sahlgrenska Academy at Göteborg University, Göteborg, Sweden
- WITHDRAWN** P137
- Acute Respiratory Infection with Chlamydia pneumoniae Significantly Elevates Plasma Levels of Serum Amyloid A but not Serum Amyloid P in ApoE-Deficient Mice** P138  
Kambiz Yaraei, Shari A Wang, Lee Ann Campbell, Chouchou Kuo, Alan Chait, Michael E Rosenfeld, University of Washington, Seattle, WA
- A Cell Surface-Binding Apolipoprotein(a) Peptide Delays Chylomicron Remnant Clearance in Perfused Livers and Results in a Marked Increase in Plasma Remnant Lipoproteins and Atherosclerosis In Vivo** P139  
Cecilia M Devlin, Columbia University, New York, NY; Sung-Joon Lee, Stanford University School of Medicine and Palo Alto Medical Foundation, Palo Alto, CA; George Kuriakose, Columbia University, New York, NY; Craig Spencer, Lev Becker, Queens University, Kingston, ON, Canada; Itamar Grosskopf, Stanford University School of Medicine and Palo Alto Medical Foundation, Palo Alto, CA; Carol Ko, Li-Shin Huang, Columbia University, New York, NY; Marlys L Koschinsky, Queens University, Kingston, ON, Canada; Allen Cooper, Stanford University School of Medicine and Palo Alto Medical Foundation, Palo Alto, CA; Ira Tabas, Columbia University, New York, NY
- Serum Amyloid A Expression in Angiotensin II-Induced Abdominal Aortic Aneurysm** P140  
Jassir Witta, Maria C deBeer, University of Kentucky Medical Center, Lexington, KY; Debra L Rateri, Alan Daugherty, Gill Heart Institute, University of Kentucky Medical Center, Lexington, KY; Frederick C deBeer, University of Kentucky Medical Center, Lexington, KY
- Aortic Root Atherosclerosis is Affected in a Site-Specific Manner by Both Gender and Immune Status** P141  
Paul A VanderLaan, Catherine A Reardon, Godfrey S Getz, University of Chicago, Chicago, IL
- The Effect of Increased Adiponectin on Vascular Function** P142  
Sudha S Shankar, Indiana University School of Medicine, Indianapolis, IN; Giancarlo Paradisi, Catholic University of Sacred Heart, Rome, Italy; Marguerite

- Shepard, Indiana University School of Medicine, Indianapolis, IN; Alain D Baron, Amylin Pharmaceuticals, San Diego, CA; Robert V Considine, Mikako Yamauchi, Michael P Dube, Helmut O Steinberg, Indiana University School of Medicine, Indianapolis, IN
- Regulation of a Novel Marker of Acute Coronary Syndromes, Pregnancy-Associated Plasma Protein-A, by Inflammatory Cytokines In Vitro** P143  
Zachary T Resch, Laurie K Bale, Cheryl A Conover, Mayo Clinic, Rochester, MN
- Cysteinyl Leukotrienes, Thromboxane B2, and High-Sensitivity C-Reactive Protein Levels in Patients across a Spectrum of Cardiovascular Disease** P144  
Mark Hainer, Jose DeHoyos, Gerald Merrill, John Ward, Karl Stajduhar, Brooke Army Medical Center, San Antonio, TX
- Oxidized-Lipid Mediated Tight Junction Protein Expression and Phosphorylation in Endothelial Cells** P145  
Lucas DeMaio, Tzung Hsiai, University of Southern California, Los Angeles, CA
- WITHDRAWN** P146
- The Role of Receptor Interacting Protein 2 in Atherogenesis** P147  
Maria J Gustafsson, Pernilla Jirholt, Jan Borén, Wallenberg Laboratory, Göteborg, Sweden
- Some IgM Specific for MDA-LDL Are Natural Antibodies Secreted by Innate B-1 Cells** P148  
Christoph J Binder, University of California, San Diego, La Jolla, CA; Catherine A Reardon, Godfrey S Getz, University of Chicago, Chicago, IL; Maripat Corr, Joseph L Witztum, University of California, San Diego, La Jolla, CA
- Absence of CD32 Protects Against Atherosclerosis in ApoE-/- Mice** P149  
Amy S Major, Jennifer L McCaleb, Sergio Fazio, Mac Rae F Linton, Vanderbilt University School of Medicine, Nashville, TN
- Macrophage COX-2 Expression Increases Atherosclerosis in ApoE-Deficient Mice** P150  
Vladimir R Babaev, Michael E Burleigh, Lei Ding, Youmin Zhang, Jason D Morrow, Sergio Fazio, MacRae F Linton, Vanderbilt University, Nashville, TN
- The METS and ERF Transcriptional Repressors Interact with DP103 through a Conserved Repression Domain** P151  
Kelly D Hester, Dominique Verhelle, David W Rose, Christopher K Glass, University of California, San Diego, La Jolla, CA
- Inhibitory Effects of Ginkgo Biloba Extract on Intercellular Adhesion Molecule-1 and Vascular Endothelial Growth Factor in Macrophage-Derived Foam Cells** P152  
Peng-Yuan Yang, Yao-Cheng Rui, Second Military Medical University, ShangHai, China
- Fibrillar Amyloid Proteins Present in Human Atheroma Activate CD36-Signal Transduction** P153  
Lea A Medeiros, Joseph B El Khoury, Massachusetts General Hosp, Boston, MA; Chi L Pham, Danny M Hatters, Geoffrey J Howlett, The University of Melbourne, Victoria, Australia; Kevin D O'Brien, University of Washington, Seattle, WA; Kathryn J Moore, Massachusetts General Hosp, Boston, MA
- Bone Marrow Transplantation from CCR2-Deficient Mice Does not Inhibit the Progression of Advanced Lesions or Reduce the Frequency of Plaque Rupture in the Innominate Arteries of Older ApoE-Deficient Mice** P154  
Erin D MacDougall, Florian Bea, University of Washington, Seattle, WA; Israel F Charo, Gladstone Institute of Cardiovascular Disease, San Francisco, CA; Stephen M Schwartz, Michael E Rosenfeld, University of Washington, Seattle, WA
- Characterization of Lipid-rich Particles Released by Cholesterol-Enriched J774 Mouse Macrophage Cells Incubated with Apolipoprotein A1** P155  
Heidi L Collins, Anna E Bortnick, Ginny Kellner-Weibel, Children's Hospital of Philadelphia, Philadelphia, PA; W G Jerome, Vanderbilt University Medical Center, Nashville, TN; Steven P Wrenn, Drexel University, Philadelphia, PA; Margaret Nickel, Children's Hospital of Philadelphia, Philadelphia, PA; Margery A Connelly, David L Williams, State University of New York at Stony Brook, Stony Brook, NY; Sissel Lund-Katz, Michael C Phillips, George H Rothblat, Children's Hospital of Philadelphia, Philadelphia, PA
- Pioglitazone Increases ABCA1 Expression in Cultured Primary Human Macrophages** P156  
Annabelle Rodriguez, Johns Hopkins University School of Medicine, Baltimore, MD; Marie D Ashen, Johns Hopkins University School of Nursing, Baltimore, MD
- The C-Terminus of Apolipoprotein B-100 Influences the Assembly and Intracellular Sorting of the Primordial Particle to Very Low Density Lipoproteins** P157  
Pia Stillemark-Billton, Caroline Beck, Jan Borén, Sven-Olof Olofsson, Medical Biochemistry and the Wallenberg Laboratory for Cardiovascular Research, Gothenburg, Sweden

- Interleukin-1beta Decreases Macrophage Intracellular Cholesterol Levels** P158  
Jenny Persson, Jan Nilsson, Marie W Lindholm, Dept of Medicine, Lund University, Malmo, Sweden
- Fu5AH Express Functional ABCA1 upon Treatment with 22OH-Cholesterol and cis-9 Retinoic Acid** P159  
Ilaria Zanotti, Elda Favari, University of Parma, Parma, Italy; George H Rothblat, Children's Hospital of Philadelphia, Philadelphia, PA; Franco Bernini, University of Parma, Parma, Italy
- Serum Amyloid A Traffics Endogenous Smooth Muscle Cell Cholesterol to the Endoplasmic Reticulum** P160  
Jacynnda Lavanture, Phillip J Stone, Neil Ruderman, Boston University School of Medicine, Boston, MA; Laura Liscum, Tufts University School of Medicine, Boston, MA; Barbara M Schreiber, Boston University School of Medicine, Boston, MA
- MOVED TO ORAL ABSTRACT #1** P161
- The Influence of Apolipoproteins on the Endothelial Lipase-Mediated Hydrolysis of Phospholipids in Reconstituted High-Density Lipoproteins** P162  
D Caiazza, The Heart Research Institute, Sydney, Australia; Daniel J Rader, University of Pennsylvania School of Medicine, Philadelphia, PA; Kerry A Rye, The Heart Research Institute, Sydney, Australia
- Endothelial Lipase Reduces High-Density Lipoprotein Particle Size without Dissociation of Apolipoprotein A-I** P163  
Anisa Jahangiri, The Heart Research Institute, Sydney, Australia; Daniel J Rader, Dawn Marchadier, University of Pennsylvania School of Medicine, Philadelphia, PA; Linda K Curtiss, David J Bonnet, The Scripps Research Institute, La Jolla, CA; Kerry A Rye, The Heart Research Institute, Sydney, Australia
- ApoJ/Clusterin Shortens VLDL Residence Time in the Circulation** P164  
Scott Street, Eddy Konaniah, Kari Theurer, Jon Cook, David Y Hui, Norm Granholm, Univ of Cincinnati, Cincinnati, OH
- Hyperalphalipoproteinaemia is Associated with Enhanced Reverse Cholesterol Transport in Athletes and Impaired Reverse Cholesterol Transport in Heart Transplant Patients** P165  
Beata Olchawa, Anh Hoang, Laurence Schneider, Jaye Chin-Dusting, Bronwyn Kingwell, Paul Nestel, Anthony Dart, Dmitri Sviridov, Baker Heart Research Institute, Melbourne, Australia
- Fenofibrate increases HDL LpAI:All Production in Men with the Metabolic Syndrome** P166  
P H Barrett, June Ji, University of Western Australia, Perth WA, Australia; Anthony G Johnson, GlaxoSmithKline, King of Prussia, PA; Adrian P Serone, Franziska Loehrer, GlaxoSmithKline, Sydney NSW, Australia; Gerald F Watts, University of Western Australia, Perth WA, Australia
- Atorvastatin Treatment in Type 2 Diabetes Mellitus Decreases PLTP Activity** P167  
Geesje M Dallinga-Thie, UMC, Utrecht, Netherlands; Haroaki Hattori, BML Inc, Saitama, Japan; Arie van Tol, Erasmus MC, Rotterdam, Netherlands
- Scavenger Receptor Class B Type I Assembles into Detergent-Sensitive Dimers and Tetramers** P168  
Daisy Sahoo, Margery A Connelly, Diana Pop, Yolanda F Darlington, David L Williams, Stony Brook University, Stony Brook, NY
- Apolipoprotein C3-Deficiency Results in Diet-Induced Obesity and Insulin Resistance in Mice** P169  
Ilse Duivenvoorden, Bas Teusink, TNO Prevention and Health, Leiden, Netherlands; Patrick C Rensen, Leiden University Medical Center and TNO Prevention and Health, Leiden, Netherlands; Johannes A Romijn, Leiden University Medical Center, Leiden, Netherlands; Louis M Havekes, Peter J Voshol, Leiden University Medical Center and TNO Prevention and Health, Leiden, Netherlands
- Altered Tissue-Specific VLDL-Derived Fatty Acid Partitioning may be Involved in the Ritonavir-Associated Lipodystrophy Syndrome** P170  
Marion den Boer, Leiden University Medical Center and TNO Prevention and Health, Leiden, Netherlands; Johannes A Romijn, Leiden University Medical Center, Leiden, Netherlands; Patrick C Rensen, Leiden University Medical Center and TNO Prevention and Health, Leiden, Netherlands; Marc van der Valk, International Antiviral Therapy Evaluation Center, Amsterdam, Netherlands; Peter Reiss, Amsterdam Medical Center, Amsterdam, Netherlands; Peter J Voshol, Louis M Havekes, Leiden University Medical Center and TNO Prevention and Health, Leiden, Netherlands
- NFkB Coordinately Regulates Serum Amyloid A and Apolipoprotein A-I Production in Hepatic Cells Exposed to Oxysterols: Potential Role in Formation of Proatherogenic HDL** P171  
Chang-Yeop Han, Alan Chait, Univ of Washington Dept of Medicine, Seattle, WA

- Regulation of ATP-Binding Cassette Transporter A1 (ABCA1) Transcription by Thyroid Hormone Receptor** P172  
Jarkko Huuskonen, Meeta Vishnu, Clive R Pullinger, Phoebe E Fielding, Christopher J Fielding, University of California San Francisco, San Francisco, CA
- Apolipoprotein A-IV Gene Expression Modulates Intestinal Free Cholesterol Absorption: A Study in ACAT-2 Knockout Mice** P173  
Richard B Weinberg, Amanda T Greenwood, Raquel Chacon-Angobaldo, Wake Forest University School of Medicine, Winston-Salem, NC
- Circadian Changes in Prebeta1-High-Density Lipoprotein Levels Intype 2 Diabetes Mellitus** P174  
Takako Ito, Takashi Miida, Satoshi Hirayama, Utako Seino, Konen Obayashi, Osamu Hanyu, Katsunori Suzuki, Niigata University, Niigata-City, Japan; Osamu Miyazaki, Daiichi Pure Chemicals, Tokai, Ibaraki, Japan; Yoshifusa Aizawa, Niigata University, Niigata-City, Japan
- Differential Effects of Farnesoid X Receptor-Deficiency on Hepatic and Intestinal Triglyceride-Rich Lipoprotein Formation in Mice** P175  
Baukje M Elzinga, Thierry Claudel, Vincent W Bloks, Henkjan J Verkade, Folkert Kuipers, University Hospital Groningen, Groningen, Netherlands
- Determination of Plasma Levels of Lipoprotein(a): A Role for the Efficiency of Lipoprotein(a) Assembly?** P176  
Lev Becker, P M Cook, Marlys L Koschinsky, Queen's University, Kingston, ON, Canada
- The Apo(a) Size, C/T, and PNR Polymorphisms in Lp(a): A Population Genetic Study of Linkage in African Americans (B) and Caucasians (W)** P177  
Lars Berglund, University of California Davis, Sacramento, CA; Jill Rubin, Columbia University, New York, NY; Thomas A Pearson, University of Rochester, Rochester, NY; Steve Holleran, Rajasekhar Ramakrishnan, Columbia University, New York, NY
- Phosphatidylethanolamine N-Methyltransferase Deficiency Decreased the Levels of Plasma Lipids and ApoB in Low-Density Lipoprotein Receptor-Deficient Mice** P178  
Yang Zhao, Dennis E Vance, University of Alberta, Edmonton, AB, Canada
- Polyunsaturated Fatty Acids Induce Loss of Newly Synthesized Apolipoprotein-B100 through Pre-Secretory Oxidation and Aggregation of the Protein: A Novel Explanation for the Lipid-lowering Effects of These Fatty Acids** P179  
Meihui Pan, New York University, New York, NY; Rong Wang, Mount Sinai School of Medicine, New York, NY; Frederick R Maxfield, Cornell University Medical College, New York, NY; Kevin J Williams, Thomas Jefferson University, Philadelphia, PA; Edward A Fisher, New York University, New York, NY
- Transgenic Mice Expressing Apolipoprotein B are Less Susceptible to Diet-Induced Hepatic Expression of Lipoprotein Lipase** P180  
Christofer Flood, Pia Stillemark Billton, Jan Borén, Wallenberg Laboratory, Göteborg, Sweden
- Hepatic LRP Deficiency in LDL Receptor and ApoE Deficient Mice Results in an Increase in the Peripheral VLDL-TG Lipolysis Rate** P181  
Gery Gerritsen, LUMC, Leiden, Netherlands; Patrick C Rensen, TNO Prevention and Health, Leiden, Netherlands; Kyriakos E Kypreos, LUMC, Leiden, Netherlands; Sonia M Espirito-Santo, Bart J van Vlijmen, Louis M Havekes, TNO Prevention and Health, Leiden, Netherlands; Ko Willems van Dijk, LUMC, Leiden, Netherlands
- A Novel Lecithin Cholesterol Acyltransferase-Deficient Mouse Expressing Predominantly LpX is Associated with Spontaneous Glomerulopathy and RhoA Activation** P182  
Dominic S Ng, Xianghong Zhu, Mohammad Eskandarian, Graham F Maguire, St Michael's Hospital, Toronto, ON, Canada; Andrew M Herzenberg, James W Scholey, University Health Network, Toronto, ON, Canada; Philip W Connelly, St Michael's Hospital, Toronto, ON, Canada
- Analysis of Intra- and Intermolecular Protein Crosslinks from Lipid-Bound ApoA-I Using Q-TOF Mass Spectroscopy** P183  
Shaile Bhat, Michael J Thomas, Michael P Samuel, Eric T Alexander, Mary G Sorci-Thomas, Wake Forest University, Winston-Salem, NC
- Reconstituted Discoidal Apoe-Phospholipid-Cholesterol Particles Promote SR-BI--Mediated Cholesterol Efflux: Receptor Binding and Cholesterol Efflux is Reduced in Cells Expressing Mutant SR-BI Forms** P184  
Angeliki Chroni, Whitaker Cardiovascular Institute, Departments of Medicine and Biochemistry, School of Medicine, Boston University, Boston, MA; Monty Krieger, Biology Department, Massachusetts Institute of Technology, Cambridge, MA; Vassilis I Zannis, Whitaker Cardiovascular Institute, Departments of Medicine and Biochemistry, School of Medicine, Boston University, Boston, MA
- Mutations in LCAT, ApoA-I, and ABCA1 can be Distinguished by NMR Lipoprotein Subphenotyping** P185  
Alison Brownlie, Xenon Genetics Inc, Vancouver, BC, Canada; G K Hovingh, Academic Medical Centre, Amsterdam, Netherlands; Jonathan Coutinho, Centre for Molecular Medicine and Therapeutics, Vancouver,

BC, Canada; Marie-Pierre Dube, Xenon Genetics Inc, Vancouver, BC, Canada; Anke H Klerkx, Academic Medical Centre, Amsterdam, Netherlands; J D Otvos, Liposcience Inc, Raleigh, NC; Erwin H Ludwig, Xenon Genetics Inc, Vancouver, BC, Canada; John J Kastelein, Academic Medical Centre, Amsterdam, Netherlands; Michael R Hayden, Centre for Molecular Medicine and Therapeutics, Vancouver, BC, Canada; Jan A Kuivenhoven, Academic Medical Centre, Amsterdam, Netherlands

**Humanized Transgenic ABCA1 Mice Show Complete Functional Rescue of Mouse ABCA1 Deficiency** P186

Jonathan Coutinho, Roshni Singaraja, Martin Kang, CMMT, Vancouver, BC, Canada; Catherine Fievet, Institut Pasteur de Lille, Lille, France; Michael R Hayden, CMMT, Vancouver, BC, Canada

**Apolipoprotein E-Amyloid beta Peptide Interaction in Cerebrovascular Disease: A FRET Analysis** P187

Mai Jane Phu, Vasanthi Narayanaswami, Children's Hospital Oakland Research Institute, Oakland, CA

**Expression, Purification, and Biophysical Characterization of the Lipoprotein Initiating Domain of Apolipoprotein B** P188

Aubrey S Ledford, Li Hou, Victoria A Cook, Richard B Weinberg, Gregory S Shelness, Wake Forest University School of Medicine, Winston-Salem, NC

**ETC-642, a Novel HDL Mimetic, Rapidly Elevates HDL-Associated Cholesterol Following Intravenous Administration in Rats, Rabbits, and Nonhuman Primates** P189

Narendra Lalwani, Sandra Drake, Cathy Watson, Anna Shenderova, Wendi Rodriguez, Charles Bisgaier, Jean-Louis Dasseux, Esperion Therapeutics, Inc, Ann Arbor, MI

**FRIDAY, MAY 7  
Poster Session II  
5:30 PM–7:30 PM  
Yosemite Room**

**Calcium-Independent Phospholipase A<sub>2</sub>-Catalyzed Hydrolysis of Membrane Phospholipids is Accelerated in Human Coronary Artery Endothelial Cells Exposed to Hypoxia** P190

Kimberly N Crown, Pamela J Kell, Jane McHowat, Saint Louis University, St Louis, MO

**Loss of Experimental AAA Resistance with Oophorectomy in Females Is Not MMP-9 Dependent** P191

Govav Ailawadi, Jonathan L Eliason, Indranil Sinha, Karen J Roelofs, Kevin K Hannawa, Michael Deogracias, Peter K Henke, James C Stanley, Gilbert R Upchurch Jr, University of Michigan, Ann Arbor, MI

**Roles of CD 36 and Integrin Alpha V Beta 3 in Thrombospondin 1-Induced Apoptosis in Different Types of Endothelial Cells** P192

Rieko Kuwashima, Tetsuji Shingu, Yuka Umeda, Masayuki Katsumoto, Atsunori Nakata, Miwa Miyoshi, Shuichi Nomura, Kazuaki Chayama, Department of Medicine and Molecular Science, Graduate School of Biomedical Science, Hiroshima University, Hiroshima, Japan

**Nonmuscle Myosin II-A is Essential for Focal Adhesion Formation in Smooth Muscle Cells** P193

Renyi Zhao, Alok Kumar S Pathak, George A Stouffer, University of North Carolina at Chapel Hill, Chapel Hill, NC

**The Oxidized Lipid, 12(S)-Hydroxyeicosatetraenoic Acid, Activates Translation Initiation and Antiapoptotic Signaling in Vascular Smooth Muscle Cells** P194

Qiangjun Cai, Roopashree S Dwarakanath, Linda Lanting, Rama Natarajan, Beckman Research Institute of City of Hope, Duarte, CA

**Transcription Factor CHF1/Hey2 Mediates Neointimal Formation by Regulation of Growth Factor Responsiveness and Rac1 Activation** P195

Yasuhiko Sakata, Fan Xiang, Zhiping Chen, Yoriko Kiriya, Caramai N Kamei, Daniel I Simon, Michael T Chin, Brigham and Women's Hospital, Cambridge, MA

**PPARgamma Ligands Inhibit Rho/Rho Kinase Pathway by Inducing Protein Tyrosine Phosphatase, SHP-2-Possible Role in Antihypertensive Effects of PPARgamma Ligands** P196

Shu Wakino, Koichi Hayashi, Takeshi Kanda, Kyoko Yoshioka, Koichirou Homma, Satoru Tatematsu, Ichiro Takamatsu, Kazuhiro Hasegawa, Takao Saruta, Keio University, Tokyo, Japan

**Extensively as well as Minimally Oxidized Low-Density Lipoproteins Activate Extracellular Signal-Activated Kinase through Lox-1** P197

Hirofumi Tanigawa, Shin-ichiro Miura, Bo Zhang, Yoshino Matsuo, Masahiro Fujino, Yoshinari Uehara, Fukuoka University School of Medicine, Fukuoka, Japan; Tatsuya Sawamura, National Cardiovascular Center Research Institute, Osaka, Japan; Keijiro Saku, Fukuoka University School of Medicine, Fukuoka, Japan

- Regulation of Arginase I Expression in Macrophages by a Protein Kinase A Type I and Histone Deacetylase-Dependent Pathway** P198  
Ivonne Haffner, Daniel Teupser, Ralph Burkhardt, Joachim Thiery, University Hospital Leipzig, Leipzig, Germany
- Regulation of Monocyte Chemoattractant Protein-1 by the Oxidized Lipid, 13-hydroperoxyoctadecadienoic acid, in Vascular Smooth Muscle Cells via Nuclear Factor-kappa B** P199  
Roopashree S Dwarakanath, Saurabh Sahar, Marpadga A Reddy, Rama Natarajan, Beckman Research Institute, Duarte, CA
- TIP49a Binds Plasminogen on Both Viable and Apoptotic Monocytoid Cells** P200  
Nagyung Baik, Stephen B Hawley, Lindsey A Miles, The Scripps Research Institution, La Jolla, CA
- Protein Kinase C-Delta Induces Apoptosis in Vascular Smooth Muscle Cells** P201  
Bo Liu, Berhane Worku, Kenji Sakakibara, Scott Hollenbeck, K Craig Kent, Weill Cornell Medical College, New York, NY
- Expression and Function of the Liver X Receptor in Human Vascular Smooth Muscle Cells** P202  
Florian Blaschke, Yasunori Takata, Joey Liu, Ronald E Law, Willa Hsueh, Dennis Bruemmer, University of California, Los Angeles, CA
- Spatial and Temporal Patterns of Expression of Blood Coagulation Factor X** P203  
Parker Hudson III, Shing Jen Tai, Hsiao-Ling Hung, Katherine High, Children's Hospital of Philadelphia, Philadelphia, PA
- Differential Regulation of Protease-Activated Receptor-Dependent Endothelial Exocytosis** P204  
John H Cleator, Douglas E Vaughan, Heidi E Hamm, Vanderbilt University, Nashville, TN
- Murine Vascular Tetrahydrobiopterin Quantitation: Implications of Nitric Oxide Synthase Deficiency** P205  
Nicholas J Skill, Janice L Theodorakis, Nicholas G Theodorakis, Yinning N Wang, James V Sitzmann, University of Rochester, Rochester, NY
- Identification of  $\beta$ -PDGF Receptor Signal Transduction Pathways Contributing to the Atherogenic Effect of Platelet-Derived Growth Factor on Vascular Smooth Muscle Cells** P206  
Evren Caglayan, Marius Vantler, Kai Kappert, Anselm T Baeumer, Stephan Rosenkranz, University of Cologne, Koeln, Germany
- WITHDRAWN** P207
- Matrix GLA Protein has Differential Effects on Endothelial and Mesenchymal Cells** P208  
Alejandra Torres, Than Lin, Amina Zebboudj, Kristina I Bostrom, University of California Los Angeles, Los Angeles, CA
- Bone Marrow Cell Transplantation Contributes to Experimental Rodent Abdominal Aortic Aneurysm Progression in Different Ways under Different Hemodynamic Conditions** P209  
Eiketsu Sho, Mien Sho, Ronald L Dalman, Stanford University, Palo Alto, CA
- Myocardial Rescue of Congenital Cardiomyopathy in Mice with Whole Bone Marrow Injection** P210  
George Rofaiel, Dana Giangiacomo, Marshal Nichols, Lan Mao, Howard Rockman, Jos Domen, Kimberly L Gandy, Duke University Medical Center, Durham, NC
- Near-Infrared Spectrometry of Abdominal Aortic Aneurysm in the ApoE<sup>-/-</sup> Mouse** P211  
Aaron Urbas, Tracey A Henriques, Debra Rateri, Alan Daugherty, Lisa A Cassis, Robert A Lodder Jr, University of Kentucky Medical Center, Lexington, KY
- Validation of a New Technique for the Quantitation of Edema in the Experimental Setting** P212  
Paul Wilburn, Alexandre Kiazand, Stanley G Rockson, Stanford School of Medicine, Stanford, CA
- Asymmetric Distribution of Frizzled-7 Proteins during Endothelial Cell Polarization and Migration** P213  
Joel C Thompson, Satya S Kolar, Guangfan Zhang, Catherine D Mao, University of Kentucky, Lexington, KY
- Genetic Contributions to Liver Triglyceride Contents in Mice** P214  
Xiaobo Lin, Pin Yue, Zhouji Chen, Gustav Schonfeld, Washington University in St Louis School of Medicine, St Louis, MO
- Amiodarone and Warfarin Interaction after Initiation of Amiodarone** P215  
Yun Lu, Katie A Won, Brenda J Nelson, Hennepin County Medical Center, Minneapolis, MN; Dongfeng Qi, Beckman Coulter Inc, Chaska, MN; Douglas Rausch, Richard W Asinger, Hennepin County Medical Center, Minneapolis, MN
- Anticoagulant Effect of Protein C Inhibitor in Venous but not Arterial Thrombosis** P216  
Herbert C Whinna, Sophie M Rehault, Heather N Pennell, Melissa D Johnson, Charles B Beasley, Frank C Church, University of North Carolina, Chapel Hill, Chapel Hill, NC

- Factor VIII Is Required for Tissue Factor--Induced Thrombin Generation on the Surface of Smooth Muscle Cells** P217  
Alok Kumar S Pathak, Renyi Zhao, George A Stouffer, University of North Carolina, Chapel Hill, Chapel Hill, NC
- Insulin-Induced Proliferation of Cultured Human Smooth Muscle Cells is Blocked by the Anti- $\beta$ 3 Integrin Antagonists m7E3, Integrelin and Tirofiban** P218  
Alok Kumar S Pathak, Renyi Zhao, George A Stouffer, University of North Carolina, Chapel Hill, Carolina Cardiovascular Biology Center, Chapel Hill, NC
- Protection against Reperfusion Injury-Induced Microvascular Damage by Inhibition of I Protein Kinase C** P219  
Fumiaki Ikeno, Koichi Inagaki, Hideaki Kaneda, Erik T Price, Leon Chen, Alan C Yeung, Daria Mochly-Rosen, Mehrdad Rezaee, Stanford University, Stanford, CA
- Valsartan Improves Mitochondrial Phosphorylation in Acute Myocardial Ischemia** P220  
Pedro Monteiro, Raquel Carreira, Coimbra University Hospital, Coimbra, Portugal; Ana Duarte, Maria Sancha Santos, Cristina Rego, Catarina Oliveira, Center for Neuroscience and Cell Biology of Coimbra, Coimbra, Portugal; Lino Gonçalves, Luis A Providência, Coimbra University Hospital, Coimbra, Portugal
- Role of Thrombin Formation around Activated Platelets on the Growth of Platelet Thrombi Formed on the Collagen Surface under Blood Flow Conditions** P221  
Noriko Tamura, Shinya Goto, Tokai University, Kanagawa, Japan; Isao Kitajima, Toyama Medical and Pharmaceutical University, Toyama, Japan
- Calpain Inhibition in Platelets Leads to Enhanced Nitric Oxide Release and Inhibition of Thrombosis** P222  
Sibaji Sarkar, Jane E Freedman, Boston University Medical Center, Boston, MA
- Evidence for GPIIb/IIIa-Mediated Regulation of Platelet Collagen Receptors** P223  
Ciara A McManus, Marc Devocelle, Desmond J Fitzgerald, Dermot Cox, Royal College of Surgeons in Ireland, Dublin, Ireland
- Pharmacologic Characterization of the Platelet LPA Receptor(s)** P224  
Zehra N Pamuklar, Cardiovascular Biology Center, University of North Carolina, Chapel Hill, NC; Andrew Morris, University of North Carolina, Chapel Hill, NC; Susan Smyth, Cardiovascular Biology Center, University of North Carolina, Chapel Hill, NC
- Extracellular Sphingomyelinase Inhibits Platelet Activation by Lipid Raft-Associated Receptors Fc-Gamma-RIIa and GPVI/FcR-Gamma** P225  
Kevin Jon Williams, Scott M Taylor, Ming-Lin Liu, William R Davidson, Michael P Reilly, Steven E McKenzie, Thomas Jefferson Univ, Philadelphia, PA
- Distinct Effects of Various Antithrombin Agents on Thrombus Formation and Expression of Procoagulant Activity of Platelet Interacting with Collagen Surface Under Blood Flow Conditions** P226  
Shinya Goto, Noriko Tamura, Tokai University, Kanagawa, Japan; Isao Kitajima, Toyama Medical and Pharmaceutical University, Toyama, Japan
- COX-2 $\beta$  - A Novel COX-2 isoform Expressed in Human Platelets** P227  
Petra Censarek, Sun-Jung Ku, Thomas Hohlfeld, Karsten Schror, Artur-Aron Weber, Universitäts Klinikum Düsseldorf, Dusseldorf, Germany
- Asymmetric Dimethylarginine is Elevated in Obese, Insulin-Resistant Women and Decreases with Weight Loss** P228  
Tracey L McLaughlin, Gerald M Reaven, Cindy Lamendola, Fahim Abbasi, Phillip Tsao, Stanford University, Stanford, CA
- The Effects of Exercise and Soy on Hot Flashes in Postmenopausal Women** P229  
Stacey E Panagotopoulos, Francine K Welty, Beth Israel Deaconess Medical Center, Boston, MA
- MOVED TO ORAL ABSTRACT #29** P230
- Impaired Endothelial Fibrinolytic Capacity with Obesity is Associated with Oxidative Stress** P231  
Gary P Van Guilder, Greta L Hoetzer, Jared J Greiner, Yoli G Casas, Heather M Irmiger, Brian L Stauffer, Christopher A DeSouza, University of Colorado Boulder, Boulder, CO
- Angiotensin II Decreases PPARgamma Gene Expression in Isolated Rat Adipocytes** P232  
Kalyani G Bharadwaj, Carine M Boustany, Victoria L English, Lisa A Cassis, University of Kentucky, Lexington, KY
- Macrophage Foam Cell Formation by Native Lipoproteins-Dissimilar VLDL Receptor Expression Between Mouse and Human Macrophages** P233  
Sadao Takahashi, Yasuo Zenimaru, Hideo Kanehara, Jinya Suzuki, Isamu Miyamori, University of Fukui, Fukui, Japan; Tadao Iwasaki, Hiroaki Hattori, BML Inc, Kawagoe, Japan; Tokuo T Yamamoto, Tohoku University Gene Research Center, Sendai, Japan

- HMG-CoA Reductase Inhibitor, Fluvastatin, Successfully Improved Endothelial Function and Reduced Albuminuria in Diabetic and Hypertensive Rats** P234  
Naruya Tomita, Keita Yamasaki, Keiko Izawa, Yasuo Kunugiza, Hiromi Kioke, Toshio Ogihara, Ryuichi Morishita, Osaka University Graduate School of Medicine, Suita, Japan
- Identification of an Apolipoprotein-I Structural Element that Stabilizes ABCA1 and Mediates Cellular Cholesterol Efflux** P235  
Pradeep Natarajan, Trudy M Forte, Berbie Chew, Lawrence Berkeley National Laboratory, Berkeley, CA; Michael C Phillips, University of Pennsylvania School of Medicine, Philadelphia, PA; John F Oram, University of Washington School of Medicine, Seattle, WA; John K Bielicki, Lawrence Berkeley National Laboratory, Berkeley, CA
- Familial Combined Hyperlipidemia is Associated with Enhanced Oxidative Stress: Effect of Atorvastatin and Fenofibrate** P236  
Fausta Micheletta, Silvia Natoli, Anna Montali, Francesca Fioretti, Marcello Arca, Luigi Iuliano, University La Sapienza, Rome, Italy
- PPARA Gene Variation is Associated with Familial Combined Hyperlipidemia** P237  
Bradley E Aouizerat, Medha Kulkarni, Donna Drown, Clive R Pullinger, Mary J Malloy, John P Kane, University of California, San Francisco, San Francisco, CA
- Are There Any Markers with a Predictive Effect over Ischaemic CVD: How Many? Which Ones?** P238  
Giorgio Corinaldesi, Medicina Generale ASL 7, Ancona, Italy
- Direct and Quantitative Determinations of Lipid Profiles Including Low-Density Lipoproteins from Near-Infrared Spectra of Serum** P239  
Kan-Zhi Liu, Minhua Shi, Angela Man, Institute for Biodiagnostics, Winnipeg, MB, Canada; Thomas C Dembinski, Health Sciences Center, Winnipeg, MB, Canada; Anthony R Shaw, Institute for Biodiagnostics, Winnipeg, MB, Canada
- Effect of Pravastatin on Coronary Atheroma in Japan: ATHEROMA Study** P240  
Hiroyoshi Yokoi, Masakiyo Nobuyoshi, Kokura Memorial Hospital, Kitakyushu, Japan; Kazuaki Mitsudo, Kurashiki Central Hospital, Kurashiki, Japan; Akito Kawaguchi, Akira Yamamoto, National Cardiovascular Center Research Institute, Osaka, Japan
- Antioxidant Effects of Abietane Diterpenoid Derivatives from *Torreya Nucifera* on Human LDL Oxidation** P241  
Woo-Song Lee, Ju-Ryoung Kim, Kyung-Soon Kim, Kyung-Hyun Cho, Tae-Sook Jeong, Korea Research Institute of Bioscience & Biotechnology, Daejeon, Republic of Korea
- Coronary Microangiopathy: An Inner City Detroit Experience** P242  
Vishal C Mehra, Sridevi Pitta, Bipin Deol, Dana Fletcher, Errol Crook, Wayne State University, Detroit, MI
- Plasma Adiponectin Levels, Cardiovascular Risk Factors and Coronary Atherosclerosis in Type 2 Diabetes** P243  
Nehal N Mehta, Mark Schutta, Megan L Wolfe, Nayyar Iqbal, Stephen E Kimmel, Daniel J Rader, Muredach P Reilly, University of Pennsylvania, Philadelphia, PA
- Atherosclerotic Lesion Differences in Surgically vs Chemically Induced Ovarian Failure in Mice** P244  
Loretta P Mayer, Northern Arizona University, Flagstaff, AZ; Rebecca Eastgard, La Jolla Institute for Molecular Medicine, San Diego, CA; Cheryl A Dyer, Northern Arizona University, Flagstaff, AZ; Patricia B Hoyer, University of Arizona, Tucson, AZ; Carole L Banka, La Jolla Institute for Molecular Medicine, San Diego, CA
- Androstenedione and Atherosclerosis: A Double-Edged Sword** P245  
Carole L Banka, Urszula Orlinska, La Jolla Institute for Molecular Medicine, San Diego, CA; Fahumiya Samad, The Scripps Research Institute, La Jolla, CA
- Intimal, but not Medial, Elastin Content is Significantly Decreased by Diabetes in a Porcine Atherosclerosis Model** P246  
Christy Jen, Thomas O McDonald, University of Washington, Seattle, WA; Ross G Gerrity, Medical College of Georgia, Augusta, GA; Alan Chait, Thomas N Wight, Kevin D O'Brien, University of Washington, Seattle, WA
- Macrophage Lipid Metabolism in the Setting of the Metabolic Syndrome** P247  
Eric E Lloyd, David P Via, Henry J Pownall, Baylor College of Medicine, Houston, TX
- Acyl-CoA: Cholesterol Acyltransferase Inhibition Prevents Oxysterol-Induced Apoptosis in Macrophages** P248  
Natalie E Freeman, Michael S Sinensky, Antonio E Rusinol, Douglas P Thewke, East Tennessee State University, Quillen College of Medicine, Johnson City, TN

- Prostacyclin Restrains Intimal Hyperplasia and Compensatory Remodeling in Response to Physiologic Stress** P249  
R Daniel Rudic, Derek Brinster, Susanne Fries, Garret A FitzGerald, University of Pennsylvania, Philadelphia, PA
- Aryl Hydrocarbon Receptor Activation Is a Potentially Novel Pathway of Mediating Cigarette Smoke-Induced Expression of Vascular Inducible Nitric Oxide Synthase in Mice via a Core Xenobiotic Responsive Element Promoter Site** P250  
Jason Bradfield, Hongyan Li, Kuang-Yuh Chyu, P K Shah, Bojan Cercek, Paul Dimayuga, Burns and Allen Research Institute, Division of Cardiology, Cedars-Sinai Medical Center and David Geffen School of Medicine at UCLA, Los Angeles, CA
- Combinational Overexpression of Cu/Zn-Superoxide and Catalase Retards Atherosclerosis in Mice Deficient in Apolipoprotein E** P251  
Zhongmao Guo, MingJian Shi, Hong Yang, Meharry Medical College, Nashville, TN
- Plasma Concentration of Adrenomedullin has Positive Correlation to the Plaque Area of Coronary Lesions Observed by Intravascular Ultrasound in Patients with Coronary Artery Disease** P252  
Hiroshi Ikenouchi, Yuko Matsui, Kazue Kogina, Fumiko Tabei, Akira Nozaki, Tsuneaki Sugimoto, Kanto Central Hospital, Tokyo, Japan; Yoshiyuki Hada, JR Tokyo General Hospital, Tokyo, Japan; Kenji Kangawa, National Cardiovascular Center, Osaka, Japan; Yasunobu Hirata, University of Tokyo, Tokyo, Japan
- Attenuation of Angiotensin II-Induced Abdominal Aortic Aneurysm in Apolipoprotein E-Deficient Mice by Fasudil, a Rho Kinase Inhibitor: Association with Apoptosis** P253  
Yi-Xin Wang, Baby Martin-McNulty, Valdeci da Cunha, Jon Vincelette, Berlex Biosciences, Richmond, CA; Xiangru Lu, Qingping Feng, University of Western Ontario, London, ON, Canada; Meredith Halks-Miller, Mithra Mahmoudi, Miriam Schroede, Gary G Deng, Sabine Schirm, Anthony Johns, Katalin Kausser, William P Dole, David R Light, Berlex Biosciences, Richmond, CA
- Induction of PPARs in the Adipose Tissue Is a Key Mechanism for the Weight Loss-Induced Increase of Insulin Sensitivity, Correction of Dyslipidemia, Inhibition of Atherosclerosis, and Improvement of Cardiovascular Function in Obese Insulin-Resistant Mice** P254  
Wim Verreth, Peter Verhamme, Cardiovascular Research Unit of the Center for Experimental Surgery and Anesthesiology, Katholieke Universiteit Leuven, Leuven, Belgium; Michel Pelat, Department of Medicine, Unit of Pharmacology and Therapeutics, Université Catholique de Louvain, Brussels, Belgium; Javier Ganame, Department of Cardiology, Katholieke Universiteit Leuven, Leuven, Belgium; John K Bielicki, Lawrence Berkeley National Laboratory, Berkeley, CA; An Mertens, Rozenn Quarck, Cardiovascular Research Unit of the Center for Experimental Surgery and Anesthesiology, Katholieke Universiteit Leuven, Leuven, Belgium; Nora Benhabilès, Gérard Marguerie, Clinigenetics, Nîmes, France; Bharti Mackness, Mike Mackness, University of Manchester Department of Medicine, Manchester Royal Infirmary, Manchester, United Kingdom; Ewa Ninio, INSERM U525, Institut Fédératif CMV, Université Pierre et Marie Curie, Paris, France; Marie-Christine Herregods, Department of Cardiology, Katholieke Universiteit Leuven, Leuven, Belgium; Jean-Luc Balligand, Department of Medicine, Unit of Pharmacology and Therapeutics, Université Catholique de Louvain, Brussels, Belgium; Paul Holvoet, Cardiovascular Research Unit of the Center for Experimental Surgery and Anesthesiology, Katholieke Universiteit Leuven, Leuven, Belgium
- Hyperlipidemia Affects the Transcriptome of Bone Marrow Stem Cells - A Global Gene Expression Profiling Study** P255  
Shoukang Zhu, Brian W Yue, Simon Lin, Chunming Dong, Pascal J Goldschmidt, Duke University, Durham, NC
- Adenovirus-Mediated Extracellular Superoxide Dismutase Gene Therapy Reduces Cuff-Induced Neointima Formation in Rat Femoral Artery** P256  
Kiyoshi Ozumi, Hiromi Tasaki, Hiroyuki Takatsu, Shun-ichi Nihei, Tsuyoshi Morishita, Kazuhito Yamashita, 2nd Int Med Uoeh, Kitakyushu, Japan; Masato Tsutsui, Pharmacology Uoeh, Kitakyushu, Japan; Masahiro Okazaki, Yasuhide Nakashima, 2nd Int Med Uoeh, Kitakyushu, Japan; Satoshi Kimura, Yasuyuki Sasaguri, 2nd Pathology Uoeh, Kitakyushu, Japan; Tetsuo Adachi, Clinical Pharmaceutics, Gifu Pharmaceutical Univ, Gifu, Japan
- WITHDRAWN** P257
- Defining the Pro-Inflammatory Phenotype using CRP Levels as the Biomarker** P258  
Ishwarlal Jialal, UC Davis Medical Center, Sacramento, CA; Grant O'Keefe, University of Washington at Seattle, Seattle, WA; Sridevi Devaraj, UC Davis Medical Center, Sacramento, CA
- WITHDRAWN** P259
- Homocysteine Stimulates Binding of Nuclear Proteins to Antioxidant Response Elements and ARE-Mediated Gene Expression in Macrophages** P260  
Florian Bea, Medizinische Universitätsklinik III, Heidelberg, Germany; Michael E Rosenfeld, Francesca N Hudson, University of Washington, Seattle, WA;

Erwin Blessing, Hugo A Katus, Jörg Kreuzer,  
Medizinische Universitätsklinik III, Heidelberg, Germany

**WITHDRAWN** P261

**Intimal Medial Thickness and  
Atherosclerotic Calcification are Significantly  
Correlated in the Carotid Arteries** P262

Matthew A Allison, Jonathan Tiefenbrun, C Michael  
Wright, University of California, San Diego, La Jolla, CA

**WITHDRAWN** P263

**Cyclooxygenase-2 Overactivity:  
A New Marker of Subclinical Atherosclerosis in  
Asymptomatic Subjects with Cardiovascular Risk  
Factors?** P264

Oscar Beloqui, Jose A Páramo, Josune Orbe,  
Inmaculada Colina, Alberto Benito, Alberto Monasterio,  
Javier Díez, University Clinic, University of Navarra,  
Pamplona, Spain

**Oxidized Phospholipids Trigger  
Atherogenic Gene Expression and Subsequent  
Monocyte Arrest in Murine Arteries** P265

Alexander Furnkranz, University of Vienna, Vienna,  
Austria; Andreas Schober, Universitätsklinikum Aachen,  
Aachen, Germany; Valery Bochkov, Gerhart Kronke,  
Alexandra Kadl, Bernd R Binder, University of Vienna,  
Vienna, Austria; Christian Weber, Universitätsklinikum  
Aachen, Aachen, Germany; Norbert Leitinger, University  
of Vienna, Vienna, Austria

**Atherosclerosis in Apolipoprotein  
E-Deficient Mice with the *Lyst*<sup>beige</sup> Mutation** P266

Ramona J Petrovan, Yuan Yuan, Linda K Curtiss, The  
Scripps Research Institute, La Jolla, CA

**Ox-PAPC Induces IL-8 Expression  
in Endothelial Cells through a TLR4-  
JAK/STAT Pathway** P267

Nima M Gharavi, Michael Yeh, Jian-Hua Qiao, Judith A  
Berliner, University of California, Los Angeles, Los  
Angeles, CA

**Evidence of Nutrient and ATP  
Depletion within Human Carotid  
Atherosclerotic Plaques** P268

Wasan Printzén, Margareta Evaldsson, Märten  
Falkenberg, Olov Wiklund, Max Levin, Göteborg  
University, Göteborg, Sweden

**Anti-Atherothrombotic and Anti-  
inflammatory Properties of Rosuvastatin in Apo E-  
Deficient Mice** P269

Stefano Bellocchi, Monica Canavesi, Mara Monetti,  
Marina Camera, Rachele Parente, Roberto Bonzi,  
Rodolfo Paoletti, Elena Tremoli, Alberto Corsini,  
University of Milan, Milan, Italy

**Regulation of Human VSMC  
Calcification by Matrix Gla Protein** P270

Leon J Schurgers, Henri M Spronk, Berry A Soute,  
Cees Vermeer, University Maastricht, Maastricht,  
Netherlands; Peter L Weissberg, Catherine M  
Shanahan, Diane Proudfoot, University of Cambridge,  
Cambridge, United Kingdom

**Association of Cystatin C Levels  
in Human Carotid Plaques with Elastin and  
Collagen Content and Plaque Echolucency** P271

Isabel Goncalves, Mikko Ares, Anna Moberg, Lund  
University, Malmö, Sweden; Jonatan Moses,  
Sahlgrenska Academy at Gothenburg University,  
Gothenburg, Sweden; Luís M Pedro, Nuno Dias, José  
Fernandes e Fernandes, Cardiovascular Institute of  
Lisbon, Lisbon, Portugal; Jan Nilsson, Stefan Jovinge,  
Eva Bengtsson, Lund University, Malmö, Sweden

**Overexpression of Uncoupling  
Protein 2 in THP1 Monocytes Inhibits  $\beta_2$  Integrin-  
Mediated Firm Adhesion and Transendothelial  
Migration** P272

Ki Hoon Han, Je-Won Ryu, Kyung Hee Hong, Jin Hee  
Maeng, Jesang Ko, Joong Yeol Park, Ki-Up Lee,  
Myeong Ki Hong, Seong Wook Park, You Ho Kim, Asan  
Medical Center, Seoul, Democratic People's Republic  
of Korea

**Matrix Metalloproteinase-9 Deficiency  
does not Reduce the Development of Angiotensin  
II-Induced Atherosclerosis and Abdominal Aortic  
Aneurysm Formation** P273

Deborah A Howatt, Debra L Rateri, Lisa A Cassis, Alan  
Daugherty, University of Kentucky, Lexington, KY

**Monocyte Recruitment and  
Macrophage Accumulation in Coronary  
Atherosclerotic Lesions is a Continual Process  
More Prominent in Advanced Lesions** P274

Craig J Russell, Andrew R Exley, Carl Atkinson, Martin  
J Goddard, Andrew J Ritchie, Papworth Hospital,  
Cambridge, United Kingdom

**17 $\beta$ -Estradiol Attenuates  
Oscillatory Flow-Induced LDL Oxidation** P275

Juliana Hwang, Michael H Ing, Lucas DeMaio, Howard  
N Hodis, Alex Sevanian, Tzung K Hsiai, University of  
Southern California, Los Angeles, CA

**Accelerated Atherothrombosis by  
Apo(a) is Independent of Plasminogen** P276

Jingfeng Sha, Erika Hart, B McCullough, D Trepal, J  
Arvidson, Cleveland Clinic Foundation, Cleveland, OH;  
F Nassir, N O Davidson, Washington University, St.  
Louis, MO; J Hoover-Plow, Cleveland Clinic  
Foundation, Cleveland, OH

- Reproducibility of Volume Measurements in Serial Carotid Magnetic Resonance Imaging Studies** P277  
Niranjan Balu, Baocheng Chu, Hunter Underhill, Chun Yuan, University of Washington, Seattle, WA
- Oxidized LDL Receptor LOX-1 is Involved in the Pathogenesis of Neointimal Hyperplasia After Balloon Arterial Injury in Rat** P278  
Tatsuya Sawamura, Junichi Hinagata, Makoto Kakutani, National Cardiovascular Center, Suita, Japan; Takao Fujii, Osaka City University, Osaka, Japan; Takahiko Naruko, Osaka City General Hospital, Osaka, Japan; Makiko Ueda, Osaka City University, Osaka, Japan; Tomoh Masaki, National Cardiovascular Center, Suita, Japan
- KR-31543 Inhibits Atherosclerosis via Downregulating Macrophage Accumulation in the Arterial Wall** P279  
Goo Taeg Oh, Jiyun Kim, Ki-Hoan Nam, Jae-Hoon Choi, Seung-Phil Park, Hye-Jin Kim, Eun-kyoung Kim, Korea Research Institute of Bioscience and Biotechnology, Daejeon, Republic of Korea
- Recombinant Human Antibodies against Aldehyde-Modified Apolipoprotein B-100 Peptide Sequences Inhibit Atherosclerosis** P280  
Alexandru Schiopu, Lund University, Lund, Sweden; Jenny Bengtsson, BioInvent International AB, Lund, Sweden; Ingrid Söderberg, Sabina Janciauskiene, Stefan Lindgren, Mikko P Ares, Lund University, Lund, Sweden; Prediman K Shah, Atherosclerosis Research Center, Cedars-Sinai Medical Center, Los Angeles, CA; Roland Carlsson, BioInvent International AB, Lund, Sweden; Jan Nilsson, Gunilla Nordin Fredrikson, Lund University, Lund, Sweden
- Apolipoprotein A-I Mimetic Peptide L-4F Inhibits Endothelial Cell- and Cu<sup>++</sup>-Mediated LDL Oxidation and Lipooxygenase-Induced Phospholipid Oxidation** P281  
Shucun Qin, Tianjiao Liu, VA Healthcare System Long Beach and the University of California, Irvine, Long Beach, CA; William W Bachovchin, Tufts University School of Medicine, Boston, MA; Vaijinath S Kamanna, Moti L Kashyap, VA Healthcare System Long Beach and the University of California, Irvine, Long Beach, CA
- Segmentation and Quantitation of Atherosclerotic Plaque Components by Magnetic Resonance Imaging and Feature Space Analysis** P282  
Christof Karmonik, Gareth J Adams, Joel D Morrisett, Baylor College of Medicine, Houston, TX
- Genomic and Proteomic Analyses of the Vascular Response to Nicotine** P283  
Tilo Grosser, Margaret Lucitt, Susanne Fries, Kyle MacLea, Ian A Blair, Garret A FitzGerald, University of Pennsylvania, Philadelphia, PA
- Human Plasma Endothelial Lipase Levels Correlate with Coronary Artery Calcification Scores and Parameters of Metabolic Syndrome** P284  
Karen O Badellino, Jennifer Dykhouse, Megan Wolfe, Muredach Reilly, Daniel J Rader, University of Pennsylvania, Philadelphia, PA
- The Accumulation of Cholesterol Derived from Intestinal Chylomicron Remnants Within Arterial Vessels is Associated with the Co-Localization of Proteoglycans in Type 1 Diabetes** P285  
Spencer D Proctor, University of Alberta, Edmonton, AB, Canada; Donna F Vine, John C Mamo, Curtin University, Perth, Australia
- Male Sex Hormones Mediate Gender Differences in the Incidence and Severity of Angiotensin II-induced Abdominal Aortic Aneurysms** P286  
Tracy A Henriques, Alan Daugherty, Lisa A Cassis, University of Kentucky, Lexington, KY
- Exogenous Tissue Plasminogen Activator Reduces Edema in Mice Lacking the Tissue Plasminogen Activator Gene** P287  
Kathleen A Stringer, John S Dunn, Univ of Colorado Hlth Sci Ctr, Denver, CO
- Expression of Cathepsin L is Enhanced in Angiotensin II-Induced Atherosclerosis** P288  
Waheed Gul, Lisa A Cassis, Alan Daugherty, University of Kentucky, Lexington, KY
- Circulating Monocyte Chemoattractant Protein-1 Levels and Risk for Lower-Extremity Arterial Disease and Incident Coronary Heart Disease: The Atherosclerosis Risk in Communities Study** P289  
Ron C Hoogeveen, Baylor College of Medicine, Houston, TX; Alanna Morrison, Eric Boerwinkle, The University of Texas-Houston Health Science Center, Houston, TX; J S Miles, Johns Hopkins University, Baltimore, MD; Charles E Rhodes, Baylor College of Medicine, Houston, TX; A R Sharrett, Johns Hopkins University, Baltimore, MD; Christie M Ballantyne, Baylor College of Medicine, Houston, TX
- Disruption of Leukocyte-Specific Fucosyltransferase VII, an Enzyme Necessary for Selectin Ligand Synthesis, Suppresses Atherosclerosis in LDLR<sup>-/-</sup> Mice** P290  
Jonathan M Gitlin, The Scripps Research Institute, La Jolla, CA; Jonathon W Homeister, Howard Hughes Medical Institute, Ann Arbor, MI; Joshua Bulgrien, Jessica Counsleman, The Scripps Research Institute, La Jolla, CA; John B Lowe, Howard Hughes Medical Institute, Ann Arbor, MI; William A Boisvert, The Scripps Research Institute, La Jolla, CA

- Angiotensin II Suppresses Expression of ATP-Binding Cassette Transporter A1 Gene in Macrophage at the Transcriptional Level** P291  
Yasunori Takata, Wei Wang, Van Chu, Florian Blaschke, Alan R Collins, Dennis Bruemmer, Ronald E Law, Willa A Hsueh, David Geffen School of Medicine, University of California Los Angeles, Los Angeles, CA
- Prevalence of *Chlamydia Pneumoniae* Infection in Patients with Coronary Artery Disease** P292  
Steven Wang, Veterans Administration Medical Center/Emory University, Atlanta, GA; Maria Lucia C Tondella, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA; Swapna Rao, Veterans Administration Medical Center/Emory University, Atlanta, GA; Gang Liu, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA; Harland Austin, Rollins School of Public Health/Emory University, Atlanta, GA; Barry Fields, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA; A Maziar M Zafari, Veterans Administration Medical Center/Emory University, Atlanta, GA
- Liver X Receptor-Dependent Repression of Osteopontin Expression in Macrophages** P293  
Dennis Bruemmer, Yasunori Takata, Florian Blaschke, Ronald E Law, Willa A Hsueh, University of California, Los Angeles, Los Angeles, CA
- Expression of the Chemokine Receptor CCR2 is Regulated by Two Distinct Promoters in the Mouse** P294  
Yiming Chen, Jessica Ho, Simone Green, Andraw C Li, Oswald Quenhenberger, University of California, San Diego, La Jolla, CA
- Transmission of Cytomegalovirus to Isolated and Tissue-Resident Human Vascular Cells by the DC-SIGN Molecule of the Dendritic Cell** P295  
Stilianos Efstratiadis, Roy J and Lucille A Carver College of Medicine and Veterans Affairs Medical Center, Iowa City, IA; N L Weintraub, M A Vasef, W E Richenbacher, D Gavrila, G Aylsworth, J L Meier
- Endothelial Cell Cyclooxygenase-2 Expression and Activity in Hypoxia: Interactions with Human Monocytes and Implications for Selective Cyclooxygenase-2 Inhibition** P296  
Maryanne Demasi, Leslie G Cleland, Rebecca J Cook-Johnson, Michael J James, Royal Adelaide Hospital, Adelaide, Australia
- Selective Pharmacologic Cyclooxygenase-2 Inhibition Decreases Angiotensin II-Induced Abdominal Aortic Aneurysm Formation in Apolipoprotein E-Deficient Mice** P297  
Victoria L King, Alan Daugherty, Lisa A Cassis, Charles D Loftin, University of Kentucky, Lexington, KY
- The Role of the 12/15-Lipoxygenase Pathway in Proinflammatory Cytokine Gene Expression in Macrophages** P298  
Yeshao Wen, Jiali Gu, Catherine C Hedrick, University of Virginia, Charlottesville, VA; Yoshitaka Takahashi, Tanihiro Yoshimoto, Kanazawa University School of Medicine, Kanazawa, Japan; Jerry L Nadler, University of Virginia, Charlottesville, VA
- Chronic Cholesteryl Ester Transfer Protein Deficiency Causes Aberrant Lipid Synthesis and Storage in SW872 Adipocytes** P299  
Lahoucine Izem, Richard E Morton, Cleveland Clinic Foundation, Cleveland, OH
- Effects of P-Glycoprotein Inhibitors on ABCA1-Mediated Cholesterol Efflux: Inhibition by Cyclosporin A** P300  
Wilfried Le Goff, Jonathan D Smith, The Cleveland Clinic Foundation, Cleveland, OH
- Distinct Functions of Acyl-CoA Synthetase Isoforms in Arterial Smooth Muscle Cells** P301  
Bardia Askari, Ashley M Sherrid, University of Washington, Seattle, WA; Mairead A Carroll, NY Medical College, Valhalla, NY; Karin E Bornfeldt, University of Washington, Seattle, WA
- Involvement of Acyl-CoA Synthetase and Phospholipase D in Unsaturated Fatty Acid-Induced ABCA1 Destabilization** P302  
Yutong Wang, John F Oram, University of Washington, Seattle, WA
- The ATP-binding Cassette Transporter G1 is Down-Regulated by Unsaturated Fatty Acids** P303  
Yoshinari Uehara, Akihiro Fujii, Shin-ichiro Miura, Tatsuo Yamada, Keiji Saku, Fukuoka University School of Medicine, Fukuoka, Japan
- An Unexpected Consensus Motif Shared by the LDL Receptor and Syndecan Transmembrane Domains Directs Movement into Rafts upon Clustering** P304  
Ming-lin Liu, William E Davidson, Marie E Meyer, Thomas Jefferson University, Philadelphia, PA; Richard E Friedman, Columbia University, New York, NY; Kevin Jon Williams, Thomas Jefferson University, Philadelphia, PA
- HDL Particle Uptake by Scavenger Receptor SR-BII Requires the Carboxy-Terminal Di-Leucine Motif** P305  
Erik R Eckhardt, Lei Cai, University of Kentucky,

Lexington, KY; Attila Szanto, University of Debrecen, Debrecen, Hungary; Nancy R Webb, Deneys R van der Westhuyzen, University of Kentucky, Lexington, KY

**Dietary Fat and Gender Modulate the Impact of Apolipoprotein A-IV Gene Expression on Intestinal Cholesterol Absorption** P306

Richard B Weinberg, Dwight D Bates, Victoria R Cook, Wake Forest University School of Medicine, Winston-Salem, NC

**In Vivo Formation of High-Density Lipoproteins Containing Both Apolipoprotein A-I and Apolipoprotein A-II in the Rabbit** P307

Neil J Hime, The Scripps Research Institute, San Diego, CA; Kate Drew, Philip J Barter, Kerry A Rye, The Heart Research Institute, Sydney, Australia

**Mechanism of Action of Paraoxonase** P308

Sampath Parthasarathy, Louisiana State University Health Science Center, New Orleans, LA; Sonia-Athina P Karabina, INSERM, Paris, France; Alexander N Lehner, Louisiana State University Health Science Center, New Orleans, LA; Elizabeth Frank, Bio-hem Foundation, Mysore, India; Nalini Santanam, Louisiana State University Health Science Center, New Orleans, LA

**Selective Uptake of HDL Cholesterol by the Scavenger Receptor BI Generates Prebeta-1 HDL** P309

Christian Zellner, Philippe N Duchateau, Medha V Kulkarni, Brian Y Ishida, Irina Movsesyan, University of California, San Francisco - CVRI, San Francisco, CA; Shangzhe Xu, Department of Biology, MIT, Cambridge, MA; Karen Kozarsky, GlaxoSmith Kline, King of Prussia, PA; Monty Krieger, Department of Biology, MIT, Cambridge, MA; Mary J Malloy, John P Kane, University of California, San Francisco - CVRI, San Francisco, CA

**CTP:Phosphocholine Cytidyltransferase-Alpha Deficient Hepatocytes Have Impaired Lipoprotein Secretion and Lipid Efflux** P310

Rene L Jacobs, University of Alberta, Edmonton, AB, Canada; Cecilia M Devlin, Ira Tabas, Columbia University, New York, NY; Dennis E Vance, University of Alberta, Edmonton, AB, Canada

**Effect of Fenofibrate on Lipoprotein Composition and Kinetics in Patients with Complete HL Deficiency** P311

Isabelle L Ruel, Laval University, Sainte-Foy, PQ, Canada; Patrick Couture, CHUL Research Center, Sainte-Foy, PQ, Canada; Jean-Francois Mauger, Laval University, Sainte-Foy, PQ, Canada; Jeffrey S Cohn, Clinical Research Institute of Montreal, Montreal, PQ, Canada; Michel Marcil, McGill University Health Center, Montreal, PQ, Canada; Benoit Lamarche, Laval University, Sainte-Foy, PQ, Canada

**The Role of the Mitogen-Activated Protein Kinase Pathway in the Regulation of Hepatocyte Apolipoprotein B100 Secretion by Insulin and the Flavonoid Naringenin** P312

Emma M Allister, Nica M Borradaile, Jane Y Edwards, Murray W Huff, Robarts Research Institute, London, ON, Canada

**Characterization and Postprandial Response of Lipoprotein Lipase Bound ApoB Lipoproteins in Humans** P313

Chunyu Zheng, Harvard School of Public Health, Boston, MA; Susan J Murdoch, John D Brunzell, University of Washington, Seattle, WA; Frank M Sacks, Harvard School of Public Health, Boston, MA

**A Novel Nontruncating APOB Gene Mutation, L343V, Causes Familial Hypobetalipoproteinemia** P314

Amanda J Whitfield, Gwen Crawford, P H Barrett, University of Western Australia, Perth, Australia; Ken Robertson, Royal Perth Hospital, Perth, Australia; Robert A Hegele, Robarts Research Institute, London, ON, Canada; Khai Tran, Zemin Yao, University of Ottawa Heart Institute, Ottawa, ON, Canada; Frank M van Bockxmeer, University of Western Australia, Perth, Australia; John R Burnett, Royal Perth Hospital, Perth, Australia

**Recycling of Apolipoprotein E in Macrophages** P315

Alyssa H Hasty, Michelle R Plummer, MacRae F Linton, Sergio Fazio, Larry L Swift, Vanderbilt University, Nashville, TN

**Plasma Factors Required for Human Apolipoprotein A-II Dimerization** P316

Baiba K Gillard, Yuen-Shing A Chen, John W Gaubatz, John B Massey, Henry J Pownall, Baylor College of Medicine, Houston, TX

**Differential Expression of Diacylglycerol Acyltransferase Activity and Genes in Various Tissues of Two Animal Models of Insulin Resistance** P317

Adele Casaschi, Geoffrey K Maiyoh, Rachel Li, University of Hawaii, Honolulu, HI; Khosrow Adeli, The Hospital for Sick Children, Toronto, ON, Canada; Andre G Theriault, University of Hawaii, Honolulu, HI

**Effect of Apolipoprotein E Phenotype on the ApoE Content of CSF-HDL in Children** P318

Satoshi Hirayama, Takashi Miida, Takako Ito, Utako Seino, Konen Obayashi, Osamu Hanyu, Katsunori Suzuki, Niigata University, Niigata, Japan; Osamu Miyazaki, Daiichi Pure Chemicals, Tokai, Ibaraki, Japan; Yoshifusa Aizawa, Niigata University, Niigata, Japan

- ApoCI Impairs the Lipolytic Conversion of Triglyceride-Rich Lipoproteins in Mice** P319  
 Caroline C van der Hoogt, Jimmy F Berbée, TNO-PG and LUMC, Leiden, Netherlands; Gery Gerritsen, Yvonne D Krom, André van der Zee, LUMC, Leiden, Netherlands; Louis M Havekes, TNO-PG and LUMC, Leiden, Netherlands; Ko Willems van Dijk, LUMC, Leiden, Netherlands; Patrick C Rensen, TNO-PG and LUMC, Leiden, Netherlands
- An Unexpected Severe Hypoalphalipoproteinemia Phenotype in Mice Expressing a Mutant Form of Human Hepatic Lipase** P320  
 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
- Antisense-Mediated Suppression of Hepatic ApoB-100 Expression Produces Global Changes in Cholesterol and Fatty Acid Biosynthetic Genes in High-Fat-Fed Mice** P321  
 Mark J Graham, Kristina M Lemonidis, Charles Whipple, Nektaria Petinos, Ranjan Perera, Seongjoon Koo, Kannan Subramaniam, Rosanne M Crooke, ISIS Pharmaceuticals, Carlsbad, CA
- Apolipoprotein A-V and Triacylglycerol Levels in Plasma** P322  
 Jennifer A Beckstead, Children's Hospital Oakland Research Institute, Oakland, CA; Trudy M Forte, Kristen Tuey, Lawrence Berkeley National Laboratories, Berkeley, CA; Ronald M Krauss, Children's Hospital Oakland Research Institute, Oakland, CA; Gunilla Olivecrona, Umeå University, Umeå, Sweden; Robert O Ryan, Children's Hospital Oakland Research Institute, Oakland, CA
- The Role of Phosphatidylethanolamine N-Methyltransferase in High-Density Lipoprotein Metabolism** P323  
 Julie C Robichaud, Gordon A Francis, Dennis E Vance, University of Alberta, Edmonton, AB, Canada
- Cholesterol 7 $\alpha$ -Hydroxylase Deficiency in Hyperlipidemic APOE\*3-Leiden Transgenic Mice Increases HDL Cholesterol by Induced Hepatic ABCA1 Expression** P324  
 Martine Groenendijk, Sabine M Post, TNO Prevention&Health, Leiden, Netherlands; Catherine Fievet, Institut Pasteur de Lille and Faculté de Pharmacie, Université de Lille II, Lille, France; Hans M Princen, TNO Prevention&Health, Leiden, Netherlands; Bart Staels, Institut Pasteur de Lille and Faculté de Pharmacie, Université de Lille II, Lille, France; Patrick C Rensen, TNO Prevention&Health, Leiden, Netherlands
- Acute Inhibition of Carnitine Palmitoyl Transferase I in vivo does not Increase Hepatic VLDL Secretion** P325  
 Ilse Duivenvoorden, Bas Teusink, TNO prevention and health, Leiden, Netherlands; Folkert Kuipers, University Hospital of Groningen, Groningen, Netherlands; Johannes A Romijn, Leiden University Medical Center, Leiden, Netherlands; Louis M Havekes, Peter J Voshol, Leiden University Medical Center and TNO prevention and Health, Leiden, Netherlands
- The Interaction of Genes and Gender Determine the Concentration of Mouse Plasma Phosphatidylcholine and Lysophosphatidylcholine Species** P326  
 Philip W Connelly, Dominic S Ng, St Michael's Hospital, Toronto, ON, Canada; Graham F Maguire, University of Toronto, Toronto, ON, Canada
- Attenuated Hepatic Assembly and Secretion of VLDL by Eicosapentaenoic Acid Treatment is Associated with Enhanced Formation of Autophagolysosomes** P327  
 Khai Tran, University of Ottawa Heart Institute, Ottawa, ON, Canada; Gro Thorne-Tjomsland, University of Manitoba, Winnipeg, MB, Canada; Zheng Cui, Wake Forest University School of Medicine, Winston-Salem, NC; Adam Andreiw, Andrea L Marat, University of Manitoba, Winnipeg, MB, Canada; Fengcheng Sun, University of Ottawa Heart Institute, Ottawa, ON, Canada; James Jamieson, University of Manitoba, Winnipeg, MB, Canada; Zemin Yao, University of Ottawa Heart Institute, Ottawa, ON, Canada
- Remodeling of Scavenger Receptor BI-Generated HDL Remnants** P328  
 Maria C De Beer, Nancy R Webb, University of Kentucky, Lexington, KY; Bela F Asztalos, Tufts University, Boston, MA; Nathan L Whitaker, Deney R Van Der Westhuyzen, Frederick C De Beer, University of Kentucky, Lexington, KY
- ApolipoproteinA-I Kinetics and HDL Composition in Men: Comparison of a Low-Fat/High-Carbohydrate Diet and a High Monounsaturated Fatty Acid Diet Consumed *Ad Libitum*** P329  
 Sophie Desroches, Marie E Paradis, Wiedad R Archer, Louise Corneau, Patrick Couture, Nathalie Bergeron, Benoit Lamarche, Laval University, Ste-Foy, PQ, Canada
- Molecular Basis for Size Heterogeneity of Discoidal High-Density Lipoproteins** P330  
 Ling Li, Jianguo Chen, Vinod Mishra, Jennifer Kurtz, Dongfeng Cao, David W Garber, Anthonay Klon, Stephen Harvey, G M Anantharamaiah, Jere P Segrest, Univ of Alabama at Birmingham, Birmingham, AL

**Lipoprotein Lipase Mass in Pre-Heparin Serum Reflects Insulin Sensitivity** P331  
Osamu Hanyu, Takashi Miida, Satoshi Hirayama, Takako Ito, Keiichiro Kosuge, Konen Obayashi, Satoshi Soda, Tomoo Ikarashi, Katsunori Suzuki, Yuichi Nakamura, Yoshifusa Aizawa, Niigata University, Niigata, Japan

**Association of Apolipoproteins with Nontraditional Risk Factors for Ischemic Heart Disease** P332  
Xenia T Tigno, Shiyong Ding, Barbara C Hansen, Obesity and Diabetes Research Center, University of Maryland at Baltimore, Baltimore, MD

**Molecular Dynamics of the Central Region of Apolipoprotein A-I** P333  
Dale D Martin, Children's Hospital Oakland Research Institute, Oakland, CA; John C Voss, University of California, Davis, Davis, CA; Michael N Oda, Children's Hospital Oakland Research Institute, Oakland, CA

**Apolipoprotein A-I Peptide Analogues Promote Reverse Lipid Transport: A Novel Therapeutic Strategy for Treatment of Atherosclerosis** P334  
Jean-Louis Dasseux, Esperion Therapeutics, Inc, Ann Arbor, MI

**SATURDAY, MAY 8**  
**Poster Session III**  
**8:00 AM–10:00 AM**  
**Yosemite Room**

**The Role of Plasmalemmal and Mitochondrial KATP Channels in Basal Vascular Tone in Human Arteries** P335  
Leonidas Hadjinkolaou, Konstandinos Kotidis, Manuel Galinanes, University of Leicester, Leicester, United Kingdom

**Attenuated Cyclooxygenase-2 Expression Contributes to Patent Ductus Arteriosus in Preterm Neonatal Mice** P336  
Darshini Trivedi, Charles D Loftin, University of Kentucky, Lexington, KY

**WITHDRAWN** P337

**Involvement of Hsp90 and Caveolin-1 in Endothelial Nitric Oxide Synthase Expression** P338  
D Senthil, M Raveendran, Y Shen, B Utama, Baylor College of Medicine, Houston, TX; D Dudley, University of Texas Health Science Center, San Antonio, TX; Scott LeMaire, Joseph Coselli, J Wang, X L Wang, Baylor College of Medicine, Houston, TX

**TAK1 Modulates Cytokine-Induced JNK, p38, and NF $\kappa$ B Activation in HeLa Cells but not HUVEC** P339  
XuShan Wang, Laura J Bloem, Eli Lilly and Company, Indianapolis, IN

**Genotype Contributions to Functional Expression of Endothelial Nitric Oxide Synthase in Cultured Endothelial Cells in Vitro** P340  
M Raveendran, D Senthil, Y Shen, B Utama, Baylor College of Medicine, Houston, TX; D Dudley, University of Texas Health Science Center, San Antonio, TX; Scott LeMaire, Joseph Coselli, J Wang, X L Wang, Baylor College of Medicine, Houston, TX

**p21<sup>waf1</sup> and p27<sup>kip1</sup> Pathways Involved in Cholesteryl Ester Transfer Protein Inhibitor-Induced Antiproliferation** P341  
Shin-ichiro Miura, Akira Kawamura, Masahiro Fujino, Yoshino Matsuo, Sayo Tomita, Hiroyuki Tanigawa, Keisuke Okamura, Yoshinari Uehara, Keiji Saku, Fukuoka University School of Medicine, Fukuoka, Japan

**Regulation of Gene Expression in Endothelial Cells by Glucose** P342  
Irene Krukovets, Tina Marinic, Yana Pleshivoy, Priya Raman, Olga I Stenina, Cleveland Clinic, Cleveland, OH

**Effects of High-Efficiency Transduction of Vascular Smooth Muscle Cells with 12/15-Lipoxygenase Using Novel Recombinant Baculoviruses** P343  
Roopashree S Dwarakanath, Linda Lanting, Rama Natarajan, Beckman Research Institute, Duarte, CA

**Involvement of Src Tyrosine Kinase in Advanced Glycation End Product- and RAGE Ligand S100B-Induced Vascular Smooth Muscle Cell Migration** P344  
Marpadga A Reddy, Babu V Bassa, Zhong-Gao Xu, Linda Lanting, Rama Natarajan, Beckman Research Institute of City of Hope, Duarte, CA

**Interferon-Gamma Induces Regulatory Factor for X Box/Major Histocompatibility Complex II Transactivator-Complex and Represses Collagen Gene Transcription in Human Smooth Muscle Cells** P345  
Giovanna Buttice, Janice Miller, Lin Wang, Barbara D Smith, Boston University, Boston, MA

**Sphingosine-1-Phosphate-Induced Smooth Muscle Cell Migration Involves the Mammalian Target of Rapamycin** P346  
William J Tanski, Elisa Roztocil, Suzanne M Nicholl, Dong Kim, Mark G Davies, University of Rochester Medical Center, Rochester, NY

- Apolipoprotein E Receptor-2 Deficiency Increases Endothelial Nitric Oxide Synthase Activity, Decreases Vascular Tension, and Enhances Vascular Relaxation in Mice** P347  
Joshua E Basford, Yanjuan Zhu, Richard J Paul, David Y Hui, University of Cincinnati, Cincinnati, OH
- Increased Contractility of Ang II in the Aorta of Cardiomyopathic Hamsters Is Mediated by an Increased Ang II-Binding Capacity and Release of ET-1** P348  
Maria J Crespo, P I Altieri, N Escobales, University of Puerto Rico-School of Medicine, San Juan, PR
- Protein Kinase C Delta Regulates Angiotensin II-Induced Protein Kinase D Activation: Involvement of AT1** P349  
Mei-Zhen Cui, Mingqi Tan, Xuemin Xu, University of Tennessee, Knoxville, TN
- Heme Oxygenase-1 Gene Expression is regulated via the Peroxisome Proliferator-Activated Receptor Alpha and Gamma** P350  
Gerhard Kronke, Ellena Ikonomu, Alexander Furnkranz, Bernd R Binder, Norbert Leitinger, University of Vienna, Vienna, Austria
- Glucose Regulates in Vitro Vascular Calcification** P351  
Tri B Tang, Moeen Abedin, Jina Lim, Andrea Choe, John Cho, Linda L Demer, Yin Tintut, University of California, Los Angeles, Los Angeles, CA
- Fractalkine Induces Angiogenesis through Pathways Involving VEGF and RhoA** P352  
Ki Hoon Han, Kyung Hee Hong, Myeong Ki Hong, Jae Joong Kim, Seong Wook Park, You Ho Kim, Asan Medical Center, Seoul, Democratic People's Republic of Korea
- Definition of Gene Expression Profile of Human Endothelial Cells Exposed to Antiangiogenic Forms of Antithrombin** P353  
Weiqing Zhang, Steven Olson, University of Illinois-Chicago, Chicago, IL
- The Effect of VEGF-C-Induced Lymphangiogenesis on Gene Expression Profiles in Experimental Lymphedema** P354  
Alexandre Kiazand, Philip Tsao, Andrew C An, Jennifer Han, Jeffrey Swanson, Andrew Berkowski, Stanford School of Medicine, Stanford, CA; Marika Karkkainen, Kari Alitalo, Molecular/Cancer Biology Laboratory, The Finnish Medical Research Council of the Finnish Academy of Sciences, Helsinki, Finland; Stanley G Rockson, Stanford School of Medicine, Stanford, CA
- Whether Normalization of Flow or Removal of Flow can Stop High-Flow-Induced Endothelial Proliferation** P355  
Misa Yamauchi, Masato Takahashi, Akita University School of Medicine, Akita, Japan; Hiroshi Nanjo, Akita University Hospital, Akita, Japan; Mikio Kobayashi, Akita University School of Medicine, Akita, Japan; Masayo Komatsu, Akita-Kumiai General Hospital, Akita, Japan; Eiketsu Sho, Stanford University School of Medicine, Stanford, CA; Hirotake Masuda, Akita University School of Medicine, Akita, Japan
- Tenascin-C Promotes Cardiac Angiogenic Mechanisms via PDGF Signaling Pathways** P356  
Victoria L Ballard, Inga Duignan, Munira Xaymardan, Andrew Chin, Jing Gang Zheng, Jay M Edelberg, Weill Medical College of Cornell University, New York, NY
- Development of a Biosensor Assay Using Membrane Proteins Reconstituted in Liposomes as Analyte** P357  
Kevin C Lindquist, Biacore, Inc, Piscataway, NJ; Helena Nordström, Olof P Karlsson, Biacore AB, Uppsala, Sweden
- Urokinase (Upa) Induces Capillary-Like Tube Formation via CDC42-Induced Cytoskeletal Rearrangement and NF-KappaB-Dependent Cell Survival** P358  
Gerald W Prager, Yuri Koshelnick, Katharina Leitner, Bernd R Binder, Medical University of Vienna, Vienna, Austria
- Expression in Atheromatous Plaque and Regulation in Cultured Vascular Cells of Molecules Involved in Osteoclastogenesis** P359  
Yutaka Nagano, Koji Nakai, Michiharu Daito, Naohika Domae, Osaka Dental University, Hirakata, Japan
- Decreased MMP Activity Despite Increased MMP Proteins Contribute to Pathological Microvascular Remodeling in Diabetic Goto-Kakizaki Rats** P360  
Alex K Harris, Jimmie Hutchinson, Vera Portik-Dobos, Advije Ergul, University of Georgia College of Pharmacy, Augusta, GA
- Role of Cathepsin S in Development of Experimental Abdominal Aortic Aneurysms** P361  
Michel A Bartoli, Washington University School of Medicine, St Louis, MO; Guo-Ping Shi, Brigham & Women's Hospital, Boston, MA; Terri L Ennis, Sarah J VanVickle, Dongli Mao, Robert W Thompson, Washington University School of Medicine, St Louis, MO
- Quantitative Differences in Ascending Aortic Aneurysm Matrix Metalloproteinase Levels in Patients with Bicuspid vs Trileaflet Aortic Valves** P362  
Scott LeMaire, Xinwen Wang, Jonathan Wilks, Stacey Carter, Shixiang Wen, Taehee Won, Dominic Leonardelli, Gobind Anand, Lori Conklin, Xing L Wang, Joseph Coselli, Baylor College of Medicine, Houston, TX

- Vascular Endothelial and Smooth Muscle Cells Respond to Pathologically Elevated Pressures** P363  
Christy L Harm, Jennifer A McCann, Karen M Haberstroh, Purdue University, West Lafayette, IN
- Stimulation of Adventitia Using Lipopolysaccharide Inhibits Calcium Signaling and Activates NO/HO-1 Production and Proliferation of Vascular Smooth Muscle Cells** P364  
Zhiming Zhu, Hauming Mou, Lijuan Wang, Department of Hypertension and Endocrinology, Daping Hospital, Third Military Medical University, Chongqing, China
- Angiotensin II and Platelet-derived Growth Factor BB Induce Monocyte Binding to Vascular Smooth Muscle Cells: Mechanisms and Implication for Monocyte Retention in Atherosclerosis** P365  
Qiangjun Cai, Shu-Lian Li, Linda Lanting, Rama Natarajan, Beckman Research Institute of City of Hope, Duarte, CA
- Engagement of P-selectin Glycoprotein Ligand-1 by P-selectin Augments Integrin  $\alpha$ Mb2 Function on Human Neutrophils** P366  
Yan-Qing Ma, The Cleveland Clinic Foundation, Cleveland, OH; Jian-Guo Geng, The Institute of Biochemistry and Cell Biology, Shanghai, China; Edward F Plow, The Cleveland Clinic Foundation, Cleveland, OH
- Artificially Administered Recombinant Tissue Plasminogen Activator Leads to a Dose-Dependent Increase in the Extravasation of Cellular and Noncellular Blood Elements** P367  
Dorothe Burggraf, Helge K Martens, Gerhard F Hamann, Ludwig-Maximilians-University; Klinikum Großhadern, Munich, Germany
- M-CSF Deficiency Predisposes Angiotensin II-Infused Mice to Aortic Medial Degradation** P368  
Fjoralba Babamusta, Jessica Moorleghen, Debra L Rateri, Lisa A Cassis, Alan Daugherty, University of Kentucky, Lexington, KY
- Role of Coagulation and Inflammation in Kidney Ischemia-Reperfusion Injury** P369  
Todd Holscher, Rolf Dario Frank, Gernot Schabbauer, Michael Tencati, Rafal Pawlinski, Nigel Mackman, The Scripps Research Institute, La Jolla, CA
- Low Levels of Tissue Factor Rescue the Intrauterine Lethality of Tissue Factor Pathway Inhibitor Null Embryos** P370  
Brian Pedersen, Todd Holscher, Yuichiro Sato, Rafal Pawlinski, Nigel Mackman, The Scripps Research Institute, La Jolla, CA
- Effects of Recombinant Factor VIIa on the Antithrombotic and Bleeding Time Effects of SS457, a Direct Factor Xa Inhibitor, in Rats** P371  
Pancras C Wong, Donald J Pinto, Robert M Knabb, Bristol-Myers Squibb Company, Pennington, NJ
- Anticardiolipin Antibodies, Methylenetetrahydrofolate Reductase Gene C677T Polymorphism and Restenosis After Coronary Stenting** P372  
Oleg P Shevchenko, Alex O Chevtchenko, Svetlana V Ponomareva, Elena A Alimova, Svetlana M Semenova, Russian Medical State University, Moscow, Russian Federation
- Pravastatin Ameliorates Microvascular Basal Lamina Damage Following Focal Cerebral Ischemia and Reperfusion** P373  
Andreas Trinkl, Dorothe Burggraf, Helge Martens, Gabriele Jäger, Nathalie Wunderlich, Gerhard F Hamann, Klinikum Großhadern, München, Germany
- C-Reactive Protein as a Predictor of CAD in Asymptomatic Subjects** P374  
C Harold Mielke Jr, Sylvia Oliver, Washington State University, Spokane, WA; Craig Hooper, Centers for Disease Control, Atlanta, GA; Robert Short, Washington State University, Spokane, WA; William Schulte, Inland Imaging, Spokane, WA; Marcia Mielke, Jennifer Hogan, Washington State University, Spokane, WA; Bryan Fuhs, Pierre Leimgruber, Spokane Cardiology PSC, Spokane, WA
- The Effects of Pioglitazone on Platelet Aggregation and Arterial Thrombus Formation** P375  
Dayuan Li, Kui Chen, Nandita Sinha, Xingjiang Zhang, Yin Wang, Anjan K Sinha, Jawahar L Mehta, University of Arkansas for Medical Sciences, Little Rock, AR
- Effects of Treatment With  $17\beta$ -Estradiol, Conjugated Equine Estrogen, and Raloxifene on Platelet Aggregation and Secretion** P376  
Muthuvel Jayachandran, Rajarshi Mukherjee, Thomas Steinkamp, Peter LaBreche, Margarita P Bracamonte, Whyte G Owen, Virginia M Miller, Mayo Clinic College of Medicine, Rochester, MN
- Increased Platelet Activation Associated with Impaired Glucose Tolerance Is Improved by Acarbose** P377  
Andreas Schäfer, Julian Widder, Medizinische Klinik, Würzburg, Germany; Martin Eigenthaler, Ulrich Walter, Institut für Klinische Biochemie und Pathobiochemie, Würzburg, Germany; Georg Ertl, Johann Bauersachs, Medizinische Klinik, Würzburg, Germany

- Antithrombotic Efficacy of Sulfated and Nonsulfated Forms of Recombinant Soluble GPIIb/IIIa Chimeras in a Canine Model of Coronary Arterial Thrombosis** P378  
Qinheng Huang, Wyeth Research, Cambridge, MA; Dianne Sako, Michael Wadanoli, Robert Schaub, GrayD Shaw
- Signal Transduction Mechanisms Involved in the Activation of Platelets from Diabetic Patients** P379  
Diane E Roberts, Ratna Bose, University of Manitoba, Winnipeg, MB, Canada
- Platelet Lipid Raft Aggregation Associated with Cold Storage: The Role of Lateral Phase Separation** P380  
Fern Tablin, University of California, Davis, Davis, CA; Karine Gousset, Johns Hopkins University, Baltimore, MD; John H Crowe, University of California, Davis, Davis, CA
- Enhanced Platelet Activity and Nitric Oxide-cGMP System in Ischemic Heart Diseases** P381  
Mahdi O Garelnabi, Emory University, Atlanta, GA; Jayashree Bhattacharjee, Vinod K Gupta, Upkar Kaul, Venkatesan Mallika, G B Pant Hospital, New Delhi, India
- Impact of Degree of Obesity on Surrogate Estimates of Insulin Resistance** P382  
Sun H Kim, Fahim Abbasi, Gerald M Reaven, Stanford University, Stanford, CA
- WITHDRAWN** P383
- Reduction of Vascular Dysfunction in Insulin Resistance by Arginine Silicate Inositol Complex** P384  
Spencer D Proctor, Sandra E Kelly, James C Russell, University of Alberta, Edmonton, AB, Canada
- Deficiency of AT1a Receptors Attenuates Blood Pressure and Limits Body Weight Gain in Diet-Induced Obesity** P385  
Carine M Boustany, Marc W Helton, Alan Daugherty, Lisa A Cassis, University of Kentucky, Lexington, KY
- Adiponectin is reduced in Association with Inflammation: Studies with Leptin-Deficient and Lipodystrophic Mice** P386  
Alison M Morris, Giamila Fantuzzi, Joseph A Sennello, Robert H Eckel, University of Colorado Health Sciences Center, Denver, CO
- Immunoelectron Microscopic Mycoplasma Pneumoniae and C-Reactive Protein Particles in the Serum of Elderly Atherosclerotic Patients** P387  
Maria de L Higuchi, Humberto Pierri, Heart Institute (InCor) - São Paulo University, São Paulo, Brazil; Antonio Sesso, Tropical Medicine Institute - São Paulo University, São Paulo, Brazil; Marilia H Higuchi-dos-Santos, Heart Institute (InCor) - São Paulo University, São Paulo, Brazil; Jorge Timenetski, Biological Sciences Institute - São Paulo University, São Paulo, Brazil; Célia M Strunz, Jose A Ramires, Mauricio Wajngarten, Heart Institute (InCor) - São Paulo University, São Paulo, Brazil
- The Influence of Hyperglycemia on Arterial Thrombus Formation and the Vessel Wall: Studies in Men and Mice** P388  
Hugo Ten Cate, University Hospital Maastricht, Maastricht, Netherlands
- Differential Effects of VLDL and LDL on the Development of Atherosclerosis** P389  
Marnie L Gruen, Michelle R Plummer, Alyssa H Hasty, Vanderbilt University, Nashville, TN
- Differential Effects of B Vitamins on Plasma Homocysteine Levels in Japanese Male Patients with and without Coronary Artery Disease** P390  
Kouji Kajinami, Yachiyo Hoshiba, Noboru Takekoshi, Shinobu Matsui, Hiroichi Tsugawa, Seiyu Kanemitsu, Shinji Okubo, Michihiko Kitayama, Akihiro Fukuda, Hironobu Akao, Ryoko Satoh, Kanazawa Medical University, Uchinada, Japan
- Recombinant Human Paraoxonase 1 has Platelet-Activating Factor Acetylhydrolase-like Activity: A Possible Anti-Inflammatory Role for Paraoxonase 1** P391  
Stephanie Berger, John K Bielicki, Timothy Gong, Trudy M Forte, Lawrence Berkeley National Laboratory, Berkeley, CA
- Relocalization of Neutral Cholesterol Ester Hydrolase to Intracellular Lipid Droplets (Its Physiological Substrate) in Human Macrophage Foam Cells** P392  
Bernard J Fisher, Shobha Ghosh, Virginia Commonwealth University, Richmond, VA
- Effect of Soy Nuts and Apolipoprotein E Genotype on Low-Density Lipoprotein Cholesterol Levels in Postmenopausal Women** P393  
Stacey E Panagotopoulos, Francine K Welty, Beth Israel Deaconess Medical Center, Boston, MA
- Aspirin Reverses Hyperglycemic Impairment of Insulin Signaling and Nitric Oxide Production in Endothelial Cells** P394  
Francis Kim, Kelly Tysseling, Byron Gallis, Lutfiyah Haji, Marshall Corson, University of Washington, Seattle, WA
- Low-Density Lipoprotein-Antioxidant Constituents of *Saururus chinensis* Roots** P395  
Young-II Baek, Woo-Song Lee, Ju-Ryoung Kim, Dae-Woo Lee, Kyung-Hyun Cho, Tae-Sook Jeong, Korea Research Institute of Bioscience & Biotechnology,

Daejeon, Republic of Korea

**Correlation between C-Reactive Protein and Stent Neoplasia in Ossabaw Swine Makes it a Better Humanoid Model for Cardiovascular Diseases** P396

Mohammad N Zafar, Shawn Kaser, Eric A Mokolke, Michael Sturek, University of Missouri, Columbia, MO

**Murine Apo C-III Antisense Oligonucleotides Reduce Serum and Liver Triglyceride Levels in High-Fat-Fed Mice** P397

Kristina M Lemonidis, Mark J Graham, Charles P Whipple, Rosanne M Crooke, ISIS Pharmaceuticals, Carlsbad, CA

**Sulfhydryl Redox State Plays an Essential Role in Mediating the Appropriate Metabolic Response to Nutritional State** P398

To Y Hui, Roger A Davis, San Diego State University, San Diego, CA

**Medial Collagen and Calcium Content are Increased Dramatically by Diabetes in a Porcine Atherosclerosis Model** P399

Hao-Jie Chen, Thomas O McDonald, University of Washington, Seattle, WA; Ross G Gerrity, Medical College of Georgia, Augusta, GA; Thomas N Wight, Hope Heart Institute, Seattle, WA; Alan Chait, Kevin O'Brien, University of Washington, Seattle, WA

**Anticoagulant Management of High-Risk Patients** P400

Giorgio Corinaldesi, Medicina Generale ASL 7, Ancona, Italy

**A 12-Week Fenofibrate Treatment Normalizes LDL and HDL Subclass Distribution and Reduces Inflammatory Markers in Patients with the Metabolic Syndrome** P401

Alberto Zambon, Sandra Bertocco, Nicola Vitturi, Gaetano Crepaldi, University of Padova, Padova, Italy

**Atorvastatin Markedly Improves Endothelial Function in Healthy Subjects at Risk for Type 2 Diabetes Mellitus** P402

Amudha Kadirvelu, Chai H Ng, S P Chan, B J Abdullah, A M Choy, M Mustafa, Chim C Lang, University of Malaya, Kuala Lumpur, Malaysia

**Chronic Angiotensin II Administration to Young Rodents Upregulates MMP-2 Activation and Mimics Age-Associated Arterial Remodeling** P403

Mingyi Wang, Jing Zhang, Gaia Spinetti, Robert Monticone, Di Zhang, Linda Cheng, Melissa Krawczyk, Mark Talan, Edward G Lakatta, NIA, Baltimore, MD

**Syndrome X and Endothelium Dysfunction** P404

Ai-Hsien A Li, Shu-Hsun Chu, Far Eastern Memorial Hospital, Taipei, Taiwan Republic of China

**Plasma Titer of Chlamydia Pneumonia IgA has Negative Correlation to the Plaque Area of Coronary Arteries in Patients with Ischemic Heart Disease** P405

Hiroshi Ikenouchi, Yuko Matsui, Kazue Kogina, Fumiko Tabei, Akira Nozaki, Tsuneaki Sugimoto, Kanto Central Hospital, Tokyo, Japan; Nobuhiko Itoh, Yoshiyuki Hada, JR Tokyo General Hospital, Tokyo, Japan

**Glycemic Control and Endogenous Insulin Relate to Endothelial Function in Diabetic Patients with Unstable Angina** P406

Natalia V Dubyanskaya Jr, Institute of Endocrinology, Tashkent, Uzbekistan; Raisa K Trigulova, Ravshan D Kurbanov, Center of Cardiology, Tashkent, Uzbekistan; Said I Ismailov, Institute of Endocrinology, Tashkent, Uzbekistan

**Platelet Monocyte Complexes Are Recruited To Human Atherosclerotic Coronary Endothelium, Migrate Into Vulnerable Plaques, and Localize To Areas Prone To Rupture** P407

Craig J Russell, Andrew J Ritchie, Carl Atkinson, Martin J Goddard, Andrew R Exley, Papworth Hospital, Cambridge, United Kingdom

**DHEA Sulfate Inhibits Tumor Necrosis Factor- $\alpha$ -Induced Endothelial Cell Inflammation** P408

Deborah D Motton, John C Rutledge, University of California, Davis, Davis, CA

**Plasma Osteopontin Levels Before and After Coronary Rotational Atherectomy are Associated with Vascular Inflammation** P409

Hironobu Akao, Michihiko Kitayama, Akihiro Fukuda, Hideaki Okazaki, Ryoko Satoh, Kouji Kajinami, Shinji Okubo, Seiyu Kanemitsu, Noboru Takekoshi, Kanazawa Medical University, Uchinada, Japan

**WITHDRAWN** P410

**Normalization of Plasma Total Cholesterol in LDL Receptor Deficient (Ldlr<sup>-/-</sup>), Apob<sup>100/100</sup> Mice Decreases the Size and Macrophage Content of Advanced Atherosclerotic Lesions** P411

James X Rong, Ilda Bander, Snjezana Dogan, Eugene Trogan, New York University School of Medicine, New York, NY; Stephen G Young, Gladstone Institute of Cardiovascular Disease, San Francisco, CA; Edward A Fisher, New York University School of Medicine, New York, NY

- Prevalence of Traditional Coronary Artery Disease Risk Factors among Patients with Angiographically Documented Coronary Artery Disease** P412  
Emmanouil S Brilakis, Joseph P McConnell, Ryan J Lennon, Ahmad A Elesber, Jeffrey G Meyers, Mayo Clinic, Rochester, MN; Peter B Berger, Duke Clinical Research Institute, Durham, NC
- WITHDRAWN** P413
- WITHDRAWN** P414
- WITHDRAWN** P415
- C-Reactive Protein Induces Apoptosis in Human Coronary Vascular Smooth Muscle Cells** P416  
Florian Blaschke, Dennis Bruemmer, Yasunori Takata, Fen Yin, Wei Wang, Willa A Hsueh, Ronald E Law, University of California, Los Angeles, CA
- Investigation of the Cellular Distribution of Specific Estrogen Receptors in Human Atherosclerotic Plaque Tissue** P417  
Lorcan Sherry, Catriona Scott, Brian Henry, Darcey Black, Organon Laboratories Ltd, Newhouse, Lanarkshire, United Kingdom
- Characterization of Sphingosine 1-Phosphate Receptors in Atherosclerosis and Associated Cells** P418  
Lorcan Sherry, Sarah Maxwell, Brian Henry, Darcey Black, David Mallinson, Organon Laboratories Ltd, Lanarkshire, United Kingdom
- Loci of Genetic Atherosclerosis Susceptibility Revealed by Quantitative Trait Locus Mapping in LDL-Receptor Deficient C57BL/6 and FVB/N Mice** P419  
Daniel Teupser, University Hospital Leipzig, Leipzig, Germany; Marietta Tan, Jan L Breslow, The Rockefeller University, New York, NY
- Effect of Hyperlipidemia and Hyperhomocysteinemia on Atherosclerosis and Carotid Artery Thrombosis in Apolipoprotein E Null Mice** P420  
Katina M Wilson, The University of Iowa, Iowa City, IA; Erland Arning, Teodoro Bottiglieri, Baylor Institute of Metabolic Disease, Dallas, TX; Steven R Lentz, The University of Iowa, Iowa City, IA
- WITHDRAWN** P421
- The Effect of a Novel Inhibitor of the Peroxidase Activity of Cyclooxygenase-1 on the Development of Atherosclerosis** P422  
Sinead M Toomey, Caroline T Sharkey, Christina M Dooley, Desmond J Fitzgerald, Orina A Belton, Royal College of Surgeons in Ireland, Dublin, Ireland
- Defibrase Inhibits Atherosclerosis Induced by Immunologic Injury and High-Fat Diet in Rabbit through Restoring Nitric Oxide Availability** P423  
Jun Pu, Lin Wang, Cun-Tai Zhang, Guo-Xiong Cheng, Nian Liu, Department of Cardiology, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China
- Deficiency of AT1a Receptors in Bone Marrow-Derived Cells Fails to Influence Hyperlipidemia-Induced Atherosclerosis** P424  
Debra L Rateri, Deborah A Howatt, Lisa A Cassis, Alan Daugherty, University of Kentucky, Lexington, KY
- Real-Time Imaging of Reactive Oxygen Species in Atherosclerotic Mice Aortas** P425  
Maria J Gustafsson, Lillemor Mattsson Hultén, Jan Borén, Max Levin, Wallenberg Laboratory, Göteborg, Sweden
- Role of the Receptor for Advanced Glycation End Products in the Induction of Proinflammatory Genes in Vascular Cells** P426  
Matthew K Whalin, W R Taylor, Emory University School of Medicine, Atlanta, GA
- Chondrocyte-Like Cells and Calcification of Advanced Atherosclerotic Lesions in the Innominate Arteries of Older ApoE-Null Mice** P427  
Brian J Bennett, University of Washington, Seattle, WA; Marcello Rattazzi, Università di Padova, Italy, Padova, Italy; Elizabeth A Kirk, University of Washington, Seattle, WA; Florian Bea, Universitat Heidelberg, Heidelberg, Germany; Mei Y Speer, Cecilia M Giachelli, Michael E Rosenfeld, University of Washington, Seattle, WA
- Niacin Inhibits LDL Oxidation and Redox-Sensitive VCAM-1 and MCP-1 Expression in Human Aortic Endothelial Cells** P428  
Shobha H Ganji, Shucun Qin, Tianjiao Liu, Vajinath S Kamanna, Moti L Kashyap, VA Healthcare System, Long Beach and the University of California, Irvine, Long Beach, CA
- Mapping of Matrix Metalloproteinase Genomic, Proteomic, and Biological Activity Data on Images of Carotid Artery Plaques** P429  
Salman Chaudhary, Baylor College of Medicine, Houston, TX; Seth Marvel, Rice University, Houston, TX; Massa Chen, Baylor College of Medicine, Houston, TX; Mini Kapoor, M D Anderson Cancer Center, Houston, TX; Rahul Mitra, Joel D Morrisett, Baylor College of Medicine, Houston, TX

- Alterations in Internal Elastic Lamina Permeability Precede Lesion Development in ApoE null Mice** P430  
Kwangdeok Lee, Cleveland Clinic Foundation, Cleveland, OH; Gerald M Saidel, Case Western Reserve University, Cleveland, OH; Marc S Penn, Cleveland Clinic Foundation, Cleveland, OH
- High-Resolution Magnetic Resonance Imaging of Experimental Atherosclerosis in the Cholesterol-Fed Rabbit** P431  
Kem A Rogers, John A Ronald, The University of Western Ontario, London, ON, Canada; Rhonda Walcarius, London Health Sciences Centre, London, ON, Canada; John F Robinson, Robert A Hegele, Brian K Rutt, Robarts Research Institute, London, ON, Canada
- Infection of Macrophages with *Chlamydia Pneumoniae* May Contribute to Vascular Calcification and the Conversion of Smooth Muscle Cells to an Osteoblast/Chondrocyte-Like Phenotype** P432  
Marcello Rattazzi, Università di Padova, Padova, Italy; Brian J Bennett, Kambiz Yaraei, University of Washington, Seattle, WA; Florian Bea, Universität Heidelberg, Heidelberg, Germany; Lee Ann Campbell, Cho-chou Kuo, University of Washington, Seattle, WA; Paolo Pauletto, Università di Padova, Padova, Italy; Cecilia M Giachelli, Michael E Rosenfeld, University of Washington, Seattle, WA
- L-4F, an Apolipoprotein A-I Mimetic Peptide, Inhibits Monocyte-Endothelial Cell Adhesion and Endothelial Cell VCAM-1 Expression** P433  
Shucun Qin, Tianjiao Liu, VA Healthcare System Long Beach and the University of California, Irvine, Long Beach, CA; William W Bachovchin, Tufts University School of Medicine, Boston, MA; Vaij Nath S Kamanna, Moti L Kashyap, VA Healthcare System Long Beach and the University of California, Irvine, Long Beach, CA
- Low Progenitor Cell Activity Determines Age-Related Endothelial Dysfunction** P434  
Christian Heiss, Stefanie Keymel, Malte Kelm, Christoph Kalka, Heinrich-Heine University Duesseldorf, Duesseldorf, Germany
- Allogenic Immune Response Promotes Accumulation of Host-Derived Smooth Muscle Cells in Transplant Arteriosclerosis** P435  
Krzysztof Bojakowski, Piotr Religa, Maria Bojakowska, Zbigniew Gaciong, Medical University of Warsaw, Warsaw, Poland; Johan Thyberg, Karolinska Institutet, Stockholm, Sweden; Ulf Hedin, Korlinska Hospital, Stockholm, Sweden
- Interferon- $\gamma$  Gene Deletion Does Not Impact Lesion Development in the Apolipoprotein E-/- Mouse Carotid Injury Model** P436  
Elizabeth T Phan, John M Sanders, Joshua J Fischer, Melissa S Bevard, University of Virginia, Charlottesville, VA; Alan Daugherty, University of Kentucky, Lexington, KY; Ian J Sarembock, University of Virginia, Charlottesville, VA
- Alterations in the Level of Cell Adhesion within Veins Perfused under Arterial Conditions, Ex Vivo** P437  
Mohammed S El-Kurdi, J S VanEpps, Robert J Toth, Douglas W Hamilton, Chuanyue Wu, David A Vorp, University of Pittsburgh, Pittsburgh, PA
- Sterol Response Element Binding Protein Activation by OxPAPC is not Mediated by c-Src/JAK/STAT3 Pathway but Cholesterol Depletion and Rho Signaling in Endothelial Cells** P438  
Jenny Choi, Michael Yeh, Amy L Cole, Judith A Berliner, University of California, Los Angeles, Los Angeles, CA
- Inhibition of Poly(ADP-Ribose) Polymerase-1(PARP-1) Reduces Atherosclerosis in Apolipoprotein E-- Deficient Mice** P439  
Elizabeth A Kirk, University of Washington, Seattle, WA
- Mechanisms of Lumen Loss in Arteries Overexpressing Urokinase (uPA)** P440  
Philip G Massey, Shan Wen, Shannon Graf, David A Dichek, University of Washington, Seattle, WA
- The Relation of Lipoprotein-Associated Phospholipase A<sub>2</sub> and C-Reactive Protein to Incident Stroke in Middle-Aged Men and Women: The Atherosclerosis Risk in Communities Study** P441  
Christie M Ballantyne, Ron C Hoogeveen, Baylor College of Medicine, Houston, TX; Heejung Bang, University of North Carolina at Chapel Hill, Chapel Hill, NC; Josef Coresh, Johns Hopkins University, Baltimore, MD; Aaron R Folsom, University of Minnesota, Minneapolis, MN; A R Sharrett, Johns Hopkins University, Baltimore, MD; Kenneth K Wu, The University of Texas-Houston Health Science Center, Houston, TX; Merle Myerson, National Heart, Lung, and Blood Institute, Bethesda, MD; Lloyd E Chambless, University of North Carolina at Chapel Hill, Chapel Hill, NC; Eric Boerwinkle, The University of Texas-Houston Health Science Center, Houston, TX
- Statins Stimulate Interleukin-1beta Secretion from Differentiated Human Macrophages** P442  
Marie W Lindholm, Jan Nilsson, Experiment Cardiovas Res, Lund University, Malmo, Sweden
- Reduced Atherosclerosis but Normal Antigen Presentation in CD11c-Deficient Mice** P443  
Huaizhu Wu, Hong Wang, Jerry L Perrard, Xiao-Yuan D Perrard, Yasunori Abe, Alan R Burns, Baylor College of Medicine, Houston, TX; Daniel C Bullard, The University of Alabama at Birmingham, Birmingham, AL; C W Smith, Christie M Ballantyne, Baylor College of Medicine, Houston, TX

- Novel Polymorphisms in the I-domains of Leukocyte Integrins and their Effects on Function.** P444  
Valentin A Ustinov, Edward F Plow, The Cleveland Clinic Foundation, Cleveland, OH
- MMP-2 Deficiency Decreases the Adhesion Activity of Peritoneal Macrophages of Mice Through Reduced Integrin Alpha V Beta 3 Expression** P445  
Jing Huang, Lisa A Cassis, Alan Daugherty, University of Kentucky, Lexington, KY
- Definition of a Macrophage Renin-Angiotensin System that is stimulated in a Hyperlipidemic Environment** P446  
Hong Lu, University of Kentucky, Lexington, KY; Katsuya Tashiro, Saga University, Saga, Japan; Debra L Rateri, Lisa A Cassis, Alan Daugherty, University of Kentucky, Lexington, KY
- Neutrophils are a Major Component of Acute Coronary Thrombi** P447  
Christopher Adlbrecht, Diana Bonderman, Johannes Jakowitsch, Michael Derntl, Gilbert Beran, Gerald Maurer, Dietmar H Glogar, Peter Probst, Peter Siostrzonek, Irene M Lang, Medical University of Vienna, Vienna, Austria
- A Role for the Glutathione Reductase/Glutaredoxin System in Protecting Macrophages from OxLDL-Induced Cell Injury** P448  
Yanmei Wang, Jim G Begley, Li Xu, Reto Asmis, University of Kentucky, Lexington, KY
- Genetic or Pharmacological Inactivation of Cyclooxygenase-2 Decreases Angiotensin II-Induced Abdominal Aortic Aneurysm Formation in Mice** P449  
Charles D Loftin, Darshini Trivedi, Alan Daugherty, Lisa A Cassis, Victoria L King, University of Kentucky, Lexington, KY
- Hematopoietic Stem Cell Transplantation Reduces Atherosclerosis in ApoE-Deficient Mice** P450  
Yan Ru Su, John L Blakemore, Youmin Chang, MacRae F Linton, Sergio Fazio, Vanderbilt University, Nashville, TN
- A Simple, Rapid and Sensitive Fluorescence Assay for Microsomal Triglyceride Transfer Protein** P451  
Humra Athar, Jahangir Iqbal, Xian-Cheng Jiang, M Mahmood Hussain, SUNY Downstate Medical Center, Brooklyn, NY
- Evidence That Redistribution of Cellular Cholesterol Affects SR-BI--Mediated Cholesterol Efflux** P452  
Margarita E de la Llera-Moya, The Children's Hospital of Philadelphia, Philadelphia, PA; Margery A Connelly, State University of New York at Stony Brook, Stony Brook, NY; Denise Drazul-Schrader, Jacqueline R Da Silva, The Children's Hospital of Philadelphia, Philadelphia, PA; David L Williams, State University of New York at Stony Brook, Stony Brook, NY; George H Rothblat, The Children's Hospital of Philadelphia, Philadelphia, PA
- Lysosomal Free Cholesterol Inhibits Acidification and Lysosomal Cholesteryl Ester Hydrolysis in Macrophages** P453  
Brian E Cox, J E Tillman, Evelyn Griffin, W G Jerome, Vanderbilt University Medical Center, Nashville, TN
- Oleic Acid Potentiates the Mitogenic Effect of Macrophage Colony Stimulating Factor in Mouse Peritoneal Macrophages via a Triacsin C-sensitive Acyl-CoA Synthetase Isoform: Potential Role of Acyl-CoA Synthetase 2** P454  
Jenny E Kanter, Anna Fyrberg, Linkoping University, Linkoping, Sweden; Bardia Askari, Karin E Bornfeldt, University of Washington, Seattle, WA
- Probucol Inhibition of ATP-Binding Cassette A1-Mediated Cellular Lipid Efflux** P455  
Elda Favari, Ilaria Zanotti, Francesca Zimetti, Nicoletta Ronda, Franco Bernini, University of Parma, Parma, Italy; George H Rothblat, University of Pennsylvania, Philadelphia, PA
- An Analysis of the Role of a Retroendocytosis Pathway in ATP-Binding Cassette Transporter--Mediated Cholesterol Efflux from Macrophages** P456  
W Sean S Davidson, Laura A Woollett, David Y Hui, Scott R Witting, J Nicholas Maiorano, Stacey E Panagotopoulos, University of Cincinnati, Cincinnati, OH
- WITHDRAWN** P457
- Roles of Hepatic Lipase and Apolipoprotein C-III on the Dyslipidemia of Subjects with the Metabolic Syndrome** P458  
Hermes J Florez, University of Miami School of Medicine, Miami, FL; Anh Le, Emory Lipid Research Laboratory, Doraville, GA; Sumaya Castillo-Florez, Mehtap Berkmen, Armando Mendez, Ronald Goldberg, University of Miami School of Medicine, Miami, FL
- Serum Amyloid A Protein Promotes Remodeling of Cerebrospinal HDL: Possible Mechanism for Accumulation of Amyloid-Beta Protein in Alzheimer's Disease** P459  
Takashi Miida, Niigata University, Niigata, Japan; Toshiyuki Yamada, Juntendo University, Tokyo, Japan; Utako Seino, Konen Obayashi, Takako Ito, Satoshi

Hirayama, Osamu Hanyu, Niigata University, Niigata, Japan; Osamu Miyazaki, Daiichi Pure Chemicals, Tokai, Japan; Masahiko Okada, Niigata University, Niigata, Japan

**Withdrawn**

**P460**

**Apolipoprotein E Is the Major Physiological Activator of Lecithin-Cholesterol Acyltransferase on Apolipoprotein B Lipoprotein Particles**

**P461**

Yue Zhao, Wake Forest University Health Sciences, Winston-Salem, NC; Fayanne E Thorngate, University Medical Center, State University of New York at Stony Brook, Stony Brook, NY; Karl H Weisgraber, Gladstone Institute of Cardiovascular Disease and Neurological Disease, University of California San Francisco, San Francisco, CA; David L Williams, University Medical Center, State University of New York at Stony Brook, Stony Brook, NY; John S Parks, Wake Forest University Health Sciences, Winston-Salem, NC

**Influence of Apo A-I Structure on the ABCA1-Mediated Efflux of Cellular Lipids**

**P462**

Charulatha Vedhachalam, Lijuan Liu, Margaret Nickel, Padmaja Dhanasekaran, Sissel Lund-Katz, George H Rothblat, Michael C Phillips, Children's Hospital of Philadelphia, Philadelphia, PA

**Contribution of Alpha-Helix Formation to the Energetics of Apolipoprotein A-I Binding to Lipids**

**P463**

Hiroyuki Saito, David Nguyen, Padmaja Dhanasekaran, Sissel Lund-Katz, Michael C Phillips, Children's Hospital of Philadelphia, Philadelphia, PA

**PI 3-Kinase Modulates VLDL Metabolism in APOBEC-1 Knock-Out Mice**

**P464**

Doru V Chirieac, University of Rochester, Rochester, NY; Nicholas O Davidson, Washington University, St Louis, MO; Charles E Sparks, Janet D Sparks, University of Rochester, Rochester, NY

**Synthesis of Cinnamic Acid Derivatives and Their Inhibitions of HDL-Particle Rearrangement, Acyl-CoA: Cholesterol**

**P465**

**Acyltransferase-1 and -2 Activity, and LDL Oxidation**  
Kyung-Hyun Cho, Sang-Ku Lee, Jong-Min Han, Tae-Sook Jeong, Song-Hae Bok, Hyunjung Kim, Korea Research Institute of Bioscience and Biotechnology, Daejeon, Republic of Korea

**Influence of Various Domains in the Apolipoprotein A-I Molecule on its Lipid Interactions**

**P466**

Masafumi Tanaka, Hiroyuki Saito, Sissel Lund-Katz, Michael C Phillips, Children's Hospital of Philadelphia, Philadelphia, PA

**Efficacy and Tolerability of Ezetimibe Add-On Therapy in Bile Acid Sequestrant/Niacin-Based Regimen**

**P467**

Philip Chiou, Antonios M Xydakis, Baylor College of Medicine, Houston, TX; John R Guyton, Judy L Stein, Duke University Medical Center, Durham, NC; Peter H Jones, Christie M Ballantyne, Baylor College of Medicine, Houston, TX

**Roles of Individual Amino Acids from 154 to 158 of the Apolipoprotein A-I: V156K and A158E Mutants Have Distinct Function and Structure in the Lipid-free and Lipid-bound State**

**P468**

Kyung-Hyun Cho, Jong-Min Han, Tae-Sook Jeong, Korea Research Institute of Bioscience and Biotechnology, Daejeon, Republic of Korea

**Apolipoprotein AV Expression in Mice Stimulates Lipoprotein Lipase-Mediated VLDL-Triglyceride Hydrolysis**

**P469**

Patrick C Rensen, TNO-PG and LUMC, Leiden, Netherlands; Frank G Schaap, AMC Liver Center, Amsterdam, Netherlands; Peter J Voshol, TNO-PG and LUMC, Leiden, Netherlands; Hendrik N Van der Vliet, Robert A Chamuleau, AMC Liver Center, Amsterdam, Netherlands; Louis M Havekes, TNO-PG and LUMC, Leiden, Netherlands; Albert K Groen, AMC Liver Center, Amsterdam, Netherlands; Ko Willems van Dijk, LUMC, Leiden, Netherlands

**Negatively Charged Residues in ApoA-I Helix 6 Modulate Phospholipid Organization and Compressibility**

**P470**

Eric T Alexander, Shaila Bhat, Persida Tahiri, Michael J Thomas, Mary G Sorci-Thomas, Wake Forest University, Winston-Salem, NC

**Lipid-Binding Interaction and Orientation of Apolipoprotein E C-Terminal Domain**

**P471**

Jessica R Drury, Nicole Choy, Children's Hospital Oakland Research Institute, Oakland, CA; Vincent Raussens, Free University of Brussels, Brussels, Belgium; Robert O Ryan, Vasanthi Narayanaswami, Children's Hospital Oakland Research Institute, Oakland, CA

**Increased Production Rate of VLDL Apolipoprotein B100 in Subjects with Familial Hypercholesterolemia Carrying the Same Null LDL Receptor Gene Mutation**

**P472**

André J Tremblay, Benoît Lamarche, Isabelle L Ruel, Jean-Charles Hogue, Jean Bergeron, Claude Gagné, Patrick Couture, Laval University, Ste-Foy, PQ, Canada

- Differential Susceptibility to Foam Cell Formation by Human Arterial Smooth Muscle Cell Subpopulations is Related to Lipoprotein Lipase Expression** P473  
Carmen A Argmann, Cynthia G Sawyez, Shaohua Li, Robert A Hegele, J G Pickering, Murray W Huff, Robarts Research Institute, London, ON, Canada
- Clinical Characteristics of 1053 Patients with Statin-Associated Muscle Complaints** P474  
Karin C Kordas, University of California, San Diego, Medical Center, San Diego, CA; Paul S Phillips, Scripps Mercy Hospital, San Diego, CA; Beatrice A Golomb, University of California, San Diego, School of Medicine, San Diego, CA
- Glucosamine-induced ER Stress Selectively Promotes ApoB Degradation in HepG2 Cells Leading to Profound Inhibition of ApoB Secretion: Evidence for Grp78 (Bip)-Mediated Targeting of Newly Synthesized ApoB to Proteasomal Degradation** P475  
Wei Qiu, Rita Kohen-Avramoglu, Shailen Mhapsekar, Julie Tsai, Hospital for Sick Children, Toronto, ON, Canada; Richard Austin, McMaster University, Hamilton, ON, Canada; Khosrow Adeli, Hospital for Sick Children, Toronto, ON, Canada
- Impaired Metabolism of TG-Rich Lipoprotein Particles in CD36-null Mice: Evidence for a Functional Interaction between CD36 and Lipoprotein Lipase?** P476  
Victor A Drover, Mohammad Ajmal, SUNY Stony Brook, Stony Brook, NY; Fatiha Nassir, Washington University School of Medicine, St. Louis, MO; Nicholas O Davidson, Washington University School of Medicine, St Louis, MO; Patrick Tso, University of Cincinnati College of Medicine, Cincinnati, OH; Nada A Abumrad, SUNY Stony Brook, Stony Brook, NY
- Apolipoprotein E Genotype and Insulin Sensitivity Influence in vivo Expression of Human Apolipoprotein A-II Gene** P477  
Giacomo Ruotolo, Scientific Institute San Raffaele, Milano, Italy; Ferdinand M van 't Hooft, Angela Silveira, Susanna Boquist, Karolinska Hospital, Stockholm, Sweden; Gosta Eggertsen, Karolinska Institutet, Stockholm, Sweden; Anders Hamsten, Karolinska Hospital, Stockholm, Sweden
- Hepatic Overexpression of GPI-Specific Phospholipase D is Associated with Delayed Catabolism of Triglyceride-Rich Lipoproteins** P478  
Nandita S Raikwar, Mark A Deeg, Indiana University School of Medicine, Indianapolis, IN
- Deletions of Helices 2 and 3 of ApoA-I are Associated with Severe Dyslipidemia Following Adenovirus Gene Transfer in ApoA-I-Deficient Mice** P479  
Angeliki Chroni, Tong Liu, Horng-Yuan Kan, Vassilis I Zannis, Whitaker Cardiovascular Institute, Departments of Medicine and Biochemistry, School of Medicine, Boston University, Boston, MA
- Deficiencies in Both ABCA1 and ACAT2 Cause the Accumulation in Plasma of VLDL Particles Enriched in Free Cholesterol but Lacking Cholesteryl Ester** P480  
Ryan E Temel, Kathryn L Kelly, Martha S Wilson, Lawrence L Rudel, Wake Forest University Health Sciences, Winston-Salem, NC
- Sphingomyelin Levels in Coronary Artery Disease and their Relationship with Remnant-Like Particles** P481  
Axel Schlitt, Stefan Blankenberg, Xian-Cheng Jiang, SUNY Downstate Medical Center, Brooklyn, NY
- Conformational Flexibility of the Central Helices of Apolipoprotein A-I in Reconstituted Discoidal High-Density Lipoproteins of Different Size** P482  
J Nicholas N Maiorano, Ronald J Jandacek, Erica M Horace, W Sean S Davidson, University of Cincinnati, Cincinnati, OH
- Progressive Changes in Low-Density Lipoprotein Subclasses Precede Type 2 Diabetes in Rhesus Monkeys** P483  
Shiying Ding, Xenia T Tigno, Barbara C Hansen, University of Maryland at Baltimore, Baltimore, MD
- Genetic Variants of ApoE Account for Variability of Plasma Low-density Lipoprotein and Apolipoprotein B Levels in FHBL** P484  
Pin Yue, Gustav Schonfeld, Washington University School of Medicine, St Louis, MO

# Program Schedule

Thursday, May 6			Friday, May 7			Saturday, May 8					
8:15– 9:30	<b>Plenary Session I</b> Continental Ballroom 4–5  <i>Conference Opening</i> <i>Glycoprotein Ib in the Regulation of Platelet Adhesion &amp; Activation</i>  <i>Regulation of Cellular Signaling by Lipoprotein Receptors</i>			8:00– 9:30	<b>Plenary Session III</b> Continental Ballroom 4–5  <i>Irvine H. Page Young Investigator Research Awards Competition</i> <i>Young Investigator Prizes in Thrombosis Competition</i>			8:00– 10:00	<b>Poster Session III</b> <b>Abstracts P335–P484</b> Yosemite Room		
	<b>Concurrent Session IA</b> Continental Ballroom 6  <i>Cellular Lipid Trafficking</i>	<b>Concurrent Session IB</b> Continental Ballroom 5  <i>Platelet Biology and Signaling</i>	<b>Concurrent Session IC</b> Continental Ballroom 4  <i>Vascular Cell Signaling</i> <i>Cell Cycle Control &amp; Gene Expression</i>		<b>Concurrent Session IIIA</b> Continental Ballroom 6  <i>Mechanisms of Atherosclerosis</i>	<b>Concurrent Session IIIB</b> Continental Ballroom 5  <i>Nutrition, Obesity and Exercise</i>	<b>Concurrent Session IIIC</b> Continental Ballroom 4  <i>Cell-cell and Cell-matrix Interactions</i>		10:00– 11:30	<b>Plenary Session V</b> Continental Ballroom 4–5  <i>Getting Platelets In and Out of Blood</i> <i>Gap Junctional Communication in the Vascular Wall</i>  <i>ABC Transporters and Cellular Lipid Efflux</i>	
11:45– 1:30	<b>Lunch on your own</b> <b>The Mentor of Women Award Luncheon</b> <i>Sponsored by the ATVB Women's Leadership Committee</i> Continental Parlor 7–9 <i>Open to all conference attendees. Ticket required.</i>			11:45– 1:30	<b>Lunch on your own</b>			12:00		<b>Closing Remarks</b>  <b>Adjourn</b>	
1:30– 3:00	<b>Plenary Session II</b> Continental Ballroom 4–5  <i>Hypoxia and Blood Vessel Function</i>  <i>Metabolic Alterations During the Perimeopausal Transition</i>  <i>Genetics of Atherosclerosis: New Genes and Pathways</i>			1:30– 3:00	<b>Plenary Session IV</b> Continental Ballroom 4–5  <i>Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research Lecture: Insights into the Metabolic Syndrome from Human Genetics</i>  <i>Cellular Abnormalities of Angiogenic Blood Vessels</i>  <i>Point Counterpoint: Big versus Small LDL — Which are more Atherogenic?</i>						
	<b>Concurrent Session IIA</b> Continental Ballroom 6  <i>Lipoprotein Metabolism</i>	<b>Concurrent Session IIB</b> Continental Ballroom 5  <i>Clinical Aspects of Thrombosis and Thrombolysis</i>	<b>Concurrent Session IIC</b> Continental Ballroom 4  <i>Vascular Development</i> <i>Angiogenesis and Differentiation</i>		<b>Concurrent Session IVA</b> Continental Ballroom 6  <i>Leukocyte Biology in Atherosclerosis</i>	<b>Concurrent Session IVB</b> Continental Ballroom 5  <i>Control of Coagulation</i>	<b>Concurrent Session IVC</b> Continental Ballroom 4  <i>Lipids, Metabolism and Atherogenesis</i>		3:30– 5:15		
5:30– 7:30	<b>Poster Session I</b> <b>Abstracts P43–P189</b> Yosemite Room			5:30– 7:30	<b>Poster Session II</b> <b>Abstracts P190–P334</b> Yosemite Room						
				7:30– 9:30	<b>Council Dinner</b> Continental Ballroom 4–5 <i>Ticket required</i>						

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# Abstract Author Index

Aberg, F	P94	Barter, Philip J	P307	Boston, Raymond C	22
Abbasi, Fahim	P97, P228, P382	Bartoli, Michel A	P361	Bostrom, Kristina I	P208
Abdullah, B J	P402	Basford, Joshua E	P347	Bottigliero, Teodoro	P420
Abe, Ken	P133	Bassa, Babu V	P344	Boullier, Agnes	34
Abe, Yasunori	P443	Bateman, Allen C	6	Boustany, Carine M	P232, P385
Abedin, Moeen	P351	Bates, Dwight D	P306	Bowden, Donald W	P114
Abid, Ruhul	9	Bauersachs, Johann	P79, P377	Boyanovsky, Boris B	23
Abramson, Jerome	P95	Bdeir, Khalil	P70	Bracamonte, Margarita P	P376
Abumrad, Nada A	P476	Bea, Florian	P154, P260, P427, P432	Bradfield, Jason	P250
Adachi, Tetsuo	P256	Beasley, Charles B	P216	Breslow, Jan L	1, P419
Adams, Gareth J	P282	Beck, Caroline	P157	Breuss, Johannes M	26
Adeli, Khosrow	P317, P475	Beck, Stephane R	P114	Brilakis, Emmanouil S	P412
Adlbrecht, Christopher	P447	Becker, Lev	P139, P176	Brinster, Derek	P249
Agrawal, Nalini	41	Beckstead, Jennifer A	11, P322	Brooks, Hillary	P48
Ailawadi, Gorav	P191	Begley, Jim G	P448	Bross, Josh	20
Aird, William C	9, P60	Bell, Susan A	3	Brown, Robert J	P320
Aizawa, Yoshifusa	P174, P318, P331	Bellosta, Stefano	P269	Brownlie, Alison	P185
Ajmal, Mohammad	P476	Belouqui, Oscar	P264	Bruemmer, Dennis	P202, P291, P293, P416
Akao, Hironobu	P126, P390, P409	Belton, Orina A	P130, P422	Brunham, Liam R	10
Akhtar, Masood	P108	Bengtsson, Eva	P271	Brunner, Patrick	26
Alexander, Eric T	P183, P470	Bengtsson, Jenny	P280	Brunzell, John D	P313
Alexander, Katherine	P95	Benhabiles, Nora	P254	Bukowska, Hanna	P117
Alimova, Elena A	P372	Benito, Alberto	P264	Bulgrien, Joshua	P290
Alitalo, Kari	P354	Bennett, Brian J	P427, P432	Bullard, Daniel C	P443
Allaqaband, Suhail	P108	Beran, Gilbert	P447	Burdon, Kathryn P	P114
Allison, Matthew A	P262	Berbée, Jimmy F P	42, P319	Burggraf, Dorothe	33, P367, P373
Allister, Emma M	P312	Berger, Peter B	P412	Burkhardt, Ralph	P198
Altieri, P I	P348	Berger, Stephanie	P391	Burleigh, Michael E	P150
An, Andrew C	P354	Bergeron, Jean	30, P472	Burnett, John R	P314
Anand, Gobind	P362	Bergeron, Nathalie	30, P329	Burns, Alan R	P443
Anantharamaiah, G M	P330	Berglund, Lars	28, P177	Busse, Rudi	P62
Andreiw, Adam	P327	Bergmark, Claes	P120	Butler, Susan	34
Anwar, Kamran	P86	Bergmeister, Helga	26	Buttice, Giovanna	P345
Aouizerat, Bradley E	19, P237	Berkmen, Mehtap	P458	Byrne, Michael F	14
Arai, Hidenori	P110	Berkowski, Andrew	P354	Byzova, Tatiana V	5, P106
Arca, Marcello	P236	Berliner, Judith A	P267, P438	Caglayan, Evren	P206
Archer, Wiedad R	30, P329	Bernini, Franco	P159, P455	Cai, Lei	P305
Ares, Mikko	P271	Bertocco, Sandra	P401	Cai, Qiangjun	P194, P365
Ares, Mikko P S	P280	Bevard, Melissa S	P436	Caiazza, D	P162
Argmann, Carmen A	P473	Bharadwaj, Kalyani G	P232	Camera, Marina	P269
Arning, Erland	P420	Bhat, Shaila	P183, P470	Camire, Rodney	38
Arruda, Valder	38	Bhattacharjee, Jayashree	P381	Campagnolo, Luisa	18
Arthur, Robert E	P78	Bick, Rodger L	P77	Campbell, Bruce D	P128
Arvidson, J	P276	Bielicki, John K	P235, P254, P391	Campbell, Lee Ann	P138, P432
Ashen, Marie D	P156	Binder, Bernd R	26, P265, P350, P358	Canavesi, Monica	P269
Asinger, Richard W	P215	Binder, Christoph J	P104, P124, P148	Canosa, Sandra	8
Askari, Bardia	P301, P454	Bisgaier, Charles	P189	Cao, Dongfeng	P101, P330
Asmis, Reto	P448	Black, Darcey	P417, P418	Cao, Tingbing	P84
Asztalos, Bela F	40, P328	Blair, Ian A	7, P283	Carabasi, Anthony	P107
Athar, Humra	P451	Blakemore, John L	P450	Carlsson, Roland	P280
Atkinson, Carl	P274, P407	Blankenberg, Stefan	P481	Carr, Jeffrey J	P114
Aylsworth, G	P295	Blaschke, Florian	P202, P291, P293, P416	Carreira, Raquel	P220
Austin, Harland	P292	Blessing, Erwin	P260	Carroll, Mairead A	P301
Austin, Richard	P475	Bloem, Laura J	P339	Carter, Stacey	P362
Babaev, Vladimir R	P150	Bloks, Vincent W	P175	Casas, Yoli	P87
Babamusta, Fjoralba	P368	Bochkov, Valery	P265	Casas, Yoli G	P231
Bachovchin, William W	P281, P433	Bodary, Peter F	24	Casaschi, Adele	P317
Badellino, Karen O	30, P284	Boerwinkle, Eric	P289, P441	Cassisi, Lisa A	P211, P232, P273, P286, P288, P297, P368, P385, P424, P445, P446, P449
Baek, Young-II	P395	Boffa, Michael	P74	Castellani, Lawrence W	P99
Baeumer, Anselm T	P206	Boisvert, William A	P290	Castillo-Florez, Sumaya	P458
Baik, Nagyung	P46, P200	Bojakowska, Maria	P435	Cejna, Manfred	26
Bajwa, Tanvir K	P108	Bojakowski, Krzysztof	P435	Censarek, Petra	P227
Bakker, Irma A J	42	Bok, Song-Hae	P465	Cercek, Bojan	P250
Bale, Laurie K	P143	Bonderman, Diana	P447	Chacon-Angobaldo, Raquel	P173
Ballantyne, Christie M	P90, P289, P441, P443, P467	Bondjers, Göran	P136	Chada, Diwakar	P71
Ballard, Victoria L T	P356	Bonnet, David J	P163	Chait, Alan	P138, P171, P246, P399
Balligand, Jean-Luc	P254	Bonzi, Roberto	P269	Chambless, Lloyd E	P441
Balu, Niranjana	P277	Boquist, Susanna	P477	Chamuleau, Robert A F	P469
Bander, Ilda	36, P411	Borén, Jan	P147, P157, P180, P425	Chan, Lawrence	P103, P112
Bang, Heejung	P441	Bornfeldt, Karin E	P301, P454	Chan, S P	P402
Banka, Carole L	P244, P245	Borradaile, Nica M	P312	Chang, Chuchun	29
Baron, Alain D	P142	Bortnick, Anna E	P155	Chang, Youmin	P450
Barresi, Caterina	17	Bose, Ratna	P379	Charo, Israel F	P154
Barrett, P H R	P166, P314	Boseska, Linda	P85		

Chaudhary, Salman	P429	Cox, Dermot	14, P223	Drew, Dennis	19
Chayama, Kazuaki	P66, P192	Crawford, Gwen	P314	Drew, Kate	P307
Cheeran, Daniel D	P54	Crepaldi, Gaetano	P401	Driggers, Erin L	P113
Chekanov, Vaeri	P108	Crespo, Maria J	P348	Drover, Victor A	P476
Chen, Chu-Huang	P90	Crook, Errol	P242	Drown, Donna	19, P237
Chen, Hao-Jie	P399	Crooke, Rosanne M	P321, P397	Drury, Jessica R	P471
Chen, Hsin H	P90	Crowe, John H	P82, P380	Duarte, Ana	P220
Chen, Jianguo	P330	Crown, Kimberly N	P190	Dube, Marie-Pierre	P185
Chen, Juhua	5	Cui, Mei-Zhen	P349	Dube, Michael P	P142
Chen, Kui	P375	Cui, Zheng	P327	Dubysanskaya, Natalia V	P406
Chen, Leon	P219	Cupples, Adriene L	40	Duchateau, Philippe N	P309
Chen, Massa	P429	Currie, Mark	P74	Dudley, D	P338, P340
Chen, Yiming	P294	Curtis, Anne-Maria	22	Duignan, Inga	P356
Chen, Yuen-Shing A	P316	Curtiss, Linda K	P102, P163, P266	Duivenvoorden, Ilse	P169, P325
Chen, Zhiping	P195	Cyrus, Tillmann	P116	Dunn, John S	P287
Chen, Zhouji	P214	D'Souza, S E	P122	Duong-Ly, Krisna	6
Cheng, Guo-Xiong	P121, P423	da Cunha, Valdeci	P253	Dwarakanath, Roopashree S	P45, P194, P199, P343
Cheng, Linda	P403	Da Silva, Jacqueline R	P452	Dyer, Cheryl A	P244
Cheng, Yan	4	Daito, Michiharu	P359	Dykhouse, Jennifer	P284
Chereshnev, Igor	36	Dallinga-Thie, Geesje M	P167	Eastgard, Rebecca	P244
Chevchenko, Alex O	P372	Dalman, Ronald L	P209	Eckel, Robert H	P386
Chew, Berbie	P235	Darlington, Yolanda F	2, P168	Eckhardt, Erik R M	P305
Chin, Andrew	P356	Dart, Anthony	P165	Edelberg, Jay M	P356
Chin, Michael T	P195	Dasseux, Jean-Louis	P105, P189, P334	Edwards, Jane Y	P312
Chin-Dusting, Jaye	P165	Daugherty, Alan	P140, P211, P273, P286, P288, P297, P368, P385, P424, P436, P445, P446, P449	Efstratiadis, Stilianos	P295
Chiou, Philip	P467	Davidson, N O	P276, P464, P476	Eggens, Ivan	P94
Chiriac, Doru V	P464	Davidson, W Sean S	P456, P482	Eggertsen, Gosta	P477
Chitnis, Smita V	18	Davidson, William	P225, P304	Egenthaler, Martin	P79, P377
Cho, John	P351	Davies, Mark G	P54, P55, P346	Eitzman, Daniel T	24
Cho, Kyung-Hyun	P241, P395, P465, P468	Davis, Kimberly R	P102	El Khoury, Joseph B	P153
Choe, Andrea	P351	Davis, Roger A	P102, P398	El-Kurdi, Mohammed S	P113, P437
Choi, Jae-Hoon	P135, P279	De, Sarmishtha	5	Elesber, Ahmad A	P412
Choi, Jenny	P438	De Beer, Frederick C	P140, P328	Eliason, Jonathan L	P191
Choy, A M	P402	De Beer, Maria C	P140, P328	Elzinga, Baukje M	P175
Choy, Nicole	P471	de la Llera-Moya, Margarita E	P452	English, Victoria L	P232
Chroni, Angeliki	P184, P479	de Villiers, Willem J S	23	Ennis, Terri L	P361
Chu, Baocheng	P277	Deckelbaum, Richard J	29	Eren, Mesut	39
Chu, Shu-Hsun	P404	Deconinck, Anne E	P128	Ergul, Adviye	P360
Chu, Van	P291	Deeg, Mark A	P478	Ertl, Georg	P79, P377
Church, Frank C	P73, P216	DeHoyos, Jose	P144	Escalante, Bruno	16
Chyu, Kuang-Yuh	P250	DeMaio, Lucas	20, P145, P275	Escobales, N	P348
Cines, Douglas B	P70	DeMarco, Susan	15	Eskandarian, Mohammad	P182
Claudiel, Thierry	P175	Demasi, Maryanne	P296	Espirito-Santo, Sonia MS	P181
Cleator, John H	P204	Dembinski, Thomas C	P239	Evaldsson, Margareta	P268
Cleland, Leslie G	P296	Demer, Linda L	P351	Exley, Andrew R	P274, P407
Cohen, Jonathan C	27	Demissie, Serkalem	40	Falcone, J C	P122
Cohn, Jeffrey S	P311	den Boer, Marion	P170	Falkenberg, Mårten	P268
Cole, Amy L	P438	Deng, Gary G	P253	Fantuzzi, Giamila	P386
Coleman, Trey	25	Deogracious, Michael	P191	Favari, Elda	P159, P455
Colina, Inmaculada	P264	Deol, Bipin	P242	Fazio, Sergio	P149, P150, P315, P450
Collins, Alan R	P291	Derntl, Michael	P447	Febbraio, Maria	P106
Collins, Dorothea E	40	DeSouza, Christopher A	P87, P231	Feng, Chu	25
Collins, Heidi L	2, P155	Desroches, Sophie	P329	Feng, Qingping	P253
Conklin, Lori	P362	Devaraj, Sri devi	P258	Fernandes e Fernandes, José	P271
Connelly, Margery A	2, P155, P168, P452	Devlin, Cecilia M	P139, P310	Fielding, Christopher J	P172
Connelly, Philip W	P182, P326	Devocelle, Marc	P223	Fielding, Phoebe E	P172
Conover, Cheryl A	P143	Dhanasekaran, Padmaja	P462, P463	Fields, Barry	P292
Conroy, Ronan	14	Dias, Nuno	P271	Fievet, Catherine	P186, P324
Considine, Robert V	P142	Dichek, David A	P440	Finch, Manley	P88
Cook, Anne B	P73	Dichek, Helen L	41	Finton, Paula J	P106
Cook, Jon	P164	DiCorleto, Paul	P106	Fioretti, Francesca	P236
Cook, P M	P176	Diez, Javier	P264	Fischer, Joshua J	P127, P436
Cook, Victoria	P188, P306	Dimayuga, Paul	P250	Fisher, Bernard J	P392
Cook-Johnson, Rebecca J	P296	DiMuzio, Paul J	P107	Fisher, Edward A	36, P179, P411
Cooper, Allen	P139	Ding, Lei	P150	Fitch, Michael J	18
Coresh, Josef	P441	Ding, Shiyang	P332, P483	Fitzgerald, Desmond J	14, P81, P83, P130, P223, P422
Corinaldesi, Giorgio	P238, P400	Dogan, Snjezana	36, P411	FitzGerald, Garret A	4, 7, 15, 22, P49, P249, P283
Corneau, Louise	P329	Dole, William P	P253	FitzGerald, Michael L	3
Corr, Maripat	P148	Domae, Naochika	P359	Fleming, Ingrid	P62
Corsetti, James P	P91	Domen, Jos	P210	Fletcher, Dana	P242
Corsini, Alberto	P269	Dong, Chunming	P255	Flood, Christofer	P180
Corson, Marshall	P394	Dooley, Christina M	P422	Florez, Hermes J	P458
Coselli, Joseph	P338, P340, P362	Dooley, Michelle	14	Folsom, Aaron R	P441
Counsleman, Jessica	P290	Drake, Sandra	P105, P189	Forde, Trudy M	P235, P322, P391
Coutinho, Jonathan	P185, P186	Drazul-Schrader, Denise	1, P452	Fortenberry, Yolanda M	P73
Couture, Patrick	30, P76, P311, P329, P472			Foy, Martina	P81
Cox, Brian E	P453			Fracarollo, Daniela	P79

Francis, Gordon A	P323	Gruen, Marnie L	P389	Ho, Jessica	P294
Frank, Elizabeth	P308	Gu, Jennifer L	P99	Hoang, Anh	P165
Frank, Rolf Dario	P369	Gu, Jiali	P298	Hobbs, Helen H	27
Freedman, Barry I	P114	Gul, Waheed	P288	Hodis, Howard N	P275
Freedman, Jane E	P222	Guo, Shaodong	9	Hoetzer, Greta L	P87, P231
Freeman, Mason W	3	Guo, Zhongmao	P109, P251	Hogan, Jennifer	P374
Freeman, Natalie E	P248	Gupta, Anjan	P108	Hogenauer, William N	P77
Friedman, Richard E	P304	Gupta, Sanjiv	P56	Hogensch, John B	22
Fries, Susanne	15, P249, P283	Gupta, Vinod K	P381	Hogue, Jean-Charles	P472
Fuhs, Bryan	P374	Gustafsson, Maria J	P147, P425	Hohlfeld, Thomas	P227
Fujii, Akihiro	P303	Gutierrez, Alejandra	P102	Hollenbeck, Scott	P201
Fujii, Takao	P278	Guyton, John R	P467	Holleran, Steve	28, P177
Fujino, Masahiro	P61, P197, P341	Haberstroh, Karen M	P69, P363	Holscher, Todd	P369, P370
Fujita, Hideo	39	Hada, Yoshiyuki	P252, P405	Holvoet, Paul	P254
Fukuchi, Ken-Ichiro	P101	Hadjinikolaou, Leonidas	P335	Holyst, Trudy	P80
Fukuda, Akihiro	P126, P390, P409	Haendeler, Judith	P50	Homeister, Jonathon W	P290
Furnkranz, Alexander	P265, P350	Haffner, Ivonne	P198	Homma, Koichirou	P196
Furukawa, Yusuke	P47	Hahren, Brendan	P130	Hong, Kyung Hee	P272, P352
Fyrberg, Anna	P454	Hainer, Mark	P144	Hong, Myeong Ki	P272, P352
Gaciong, Zbigniew	P435	Haji, Lutfiyah	P394	Hoogveen, Ron C	P289, P441
Gagné, Claude	P76, P472	Halks-Miller, Meredith	P253	Hooper, Craig	P374
Gagné, Jean-Marc	P76	Hamann, Gerhard F	33, P367, P373	Hoover-Plow, J	P276
Gale, Andrew J	21	Hamilton, Douglas W	P113, P437	Horace, Erica M	P482
Galinanes, Manuel	P335	Hamilton, Karyn L	P56	Horvath, Katalin V	40
Gallis, Byron	P394	Hamm, Heidi E	P204	Hoshiba, Yachiyo	P390
Ganame, Javier	P254	Hamsten, Anders	P477	Hossain, Mohammed	32
Ganda, Chintya	P118	Han, Chang-Yeop	P171	Hou, Li	P188
Gandy, Kimberly L	P210	Han, Jennifer	P354	Hovingh, G K	P185
Ganji, Shobha H	P428	Han, Jong-Min	P465, P468	Howatt, Deborah A	P273, P424
Gao, Cunji	P80	Han, Ki Hoon	P272, P352	Howlett, Geoffrey J	P153
Garber, David W	P330	Hannawa, Kevin K	P191	Hoyer, Patricia B	P244
Garelnabi, Mahdi O H	P95, P381	Hansen, Barbara C	P332, P483	Hsiai, Tzung K	20, P145, P275
Gargalovic, Peter	P99	Hanyu, Osamu	P174, P318, P331, P459	Hsueh, Willa A	P202, P291, P293, P416
Gass, Cecelia	31	Harm, Christy L	P363	Huang, Jing	P445
Gaubatz, John W	P103, P316	Harris, Alex K	P360	Huang, Li-Shin	P139
Gauthier, André	P320	Hart, Erika	P276	Huang, Max T	P90
Gavrila, D	P295	Hartvigsen, Karsten	P104	Huang, Qinheng	P378
Geng, Jian-Guo	P366	Harvey, Stephen	P330	Hudson, Francesca N	P260
Geohas, Jeff	P88	Hasegawa, Kazuhiro	P196	Hudson, Parker	38, P203
Gerritsen, Gery	P181, P319	Hasty, Alyssa H	P315, P389	Huff, Murray W	P312, P473
Gerrity, Ross G	P246, P399	Hasu, Mirela	35	Hui, David Y	P164, P347, P456
Getz, Godfrey S	P141, P148	Hatters, Danny M	P153	Hui, To Y	P398
Ghannadan, Mino	17	Hattori, Haroaki	P167	Hung, Hsiao-Ling	P203
Gharavi, Nima M	P267	Hattori, Hiroaki	P233	Hussain, M Mahmood	P86, P451
Ghosh, Shobha	P392	Havekes, Louis M	42, P64, P169, P170, P181, P319, P325, P469	Hutchinson, Jimmie	P360
Giachelli, Cecilia M	P427, P432	Havel, Peter J	28	Huuskonen, Jarkko	P172
Giangiacomo, Dana	P210	Hawley, Stephen B	P200	Hwang, Juliana	20, P275
Gillard, Baiba K	P316	Hayashi, Koichi	P196	Hyon, Min Su	P123
Gitlin, Jonathan M	P290	Hayashi, Nakanobu	P47	Ikarashi, Tomoo	P331
Glass, Christopher K	P102, P151	Hayden, Michael R	10, P185, P186	Ikeno, Fumiaki	P219
Gleaves, Linda A	39	Hazen, Stanley L	P106	Ikenouchi, Hiroshi	P252, P405
Glogar, Dietmar H	P447	He, Yubin	P460	Ikonomu, Ellena	P350
Goddard, Martin J	P274, P407	Hecke, Anneke	P48	Inagaki, Koichi	P219
Goldberg, Ronald	P458	Hedin, Ulf	P435	Ing, Michael H	20, P275
Goldschmidt, Pascal J	P255	Hedrick, Catherine C	P298	Iqbal, Jahangir	P451
Golomb, Beatrice A	P474	Hegele, Robert A	P314, P431, P473	Iqbal, Nayyar	P243
Goncalves, Isabel	P271	Heiss, Christian	P434	Irmiger, Heather M	P231
Goncalves, Lino	P220	Helm, Gregory A	P127	Ishida, Brian Y	P309
Gong, Timothy	P391	Helton, Marc W	P385	Ismailov, Said I	P406
Goto, Shinya	P221, P226	Henke, Peter K	P191	Ito, Takako	P174, P318, P331, P459
Gousset, Karine	P380	Hennink, Wim E	P64	Itoh, Kouichi	P47
Graf, Shannon	P440	Henriques, Tracy A	P211, P286	Itoh, Nobuhiko	P405
Graham, Mark J	P321, P397	Henry, Brian	P417, P418	Iuliano, Luigi	P236
Granholm, Norm	P164	Herregods, Marie-Christine	P254	Ivanov, Vadim	P67
Green, Fiona R	P115	Herzenberg, Andrew M	P182	Ivanova, Svetlana V	P67
Green, Simone	P294	Herzog, Roland	38	Iwasaki, Tadao	P233
Greenberg, Danielle	P88	Hester, Kelly D	P151	Izawa, Keiko	P234
Greenwood, Amanda T	P173	High, Katherine	38, P203	Izem, Lahoucine	P299
Gregory, Michael J	18	Higuchi, Maria de L	P387	Jacobs, Rene L	P310
Greiner, Jared J	P87, P231	Higuchi-dos-Santos, Marilia H	P387	Jäger, Gabriele	P373
Griffin, Evelyn	P453	Hime, Neil J	P307	Jahangiri, Anisa	P163
Griffin, John H	21	Hinagata, Junichi	P278	Jakowitsch, Johannes	P447
Grippa, Jodae	P52	Hirakawa, Noriko	P98	James, Jessica C	P127
Groen, Albert K	P469	Hirata, Yasunobu	P252	James, Michael J	P296
Groenendijk, Martine	P324	Hirayama, Satoshi	P174, P318	Jamieson, James	P327
Grosser, Tilo	7, 15, P283		P331, P459	Janciauskiene, Sabina	P280
Grosskopf, Itamar	P139			Jandacek, Ronald J	P482

Janigro, Damir	32	Kim, Jiyun	P135, P279	Larkin, Sandra K	11
Jayachandran, Muthuvel	P376	Kim, Ju-Ryoung	P241, P395	Lavanture, Jacynda	P160
Jen, Christy	P246	Kim, Kyung-Soon	P241	Law, Ronald E	P202, P291, P293, P416
Jeong, Tae-Sook	P241, P395, P465, P468	Kim, Sun H.	P382	Lawson, John A	15
Jerome, W G	P155, P453	Kim, Sung Koo	P123	Le, Anh	P458
Ji, June	P166	Kim, You Ho	P272, P352	Le Goff, Wilfried	P300
Jialal, Ishwarlal	P258	Kimmel, Stephen E	P243	Lebleu, Bernard	P48
Jiang, Nan	P58	Kimura, Satoshi	P256	Ledford, Aubrey S	P188
Jiang, Ning	P74	King, Susan A D	24	Lee, Dae-Woo	P395
Jiang, Xian-Cheng	P451, P481	King, Victoria L	P297, P449	Lee, Ji-Young	10
Jiang, Xiaohua	P103	Kingwell, Bronwyn	P165	Lee, Ki-Up	P272
Jirholt, Pernilla	P147	Kioke, Hiromi	P234	Lee, Kwangdeok	P430
Jobin, Charles	P52	Kiryama, Yoriko	P195	Lee, Richard G	12
Johns, Anthony	P253	Kirk, Elizabeth A	P427, P439	Lee, Sang-Ku	P465
Johnson, Anthony G	P166	Kita, Toru	P110	Lee, Sung-Joon	P139
Johnson, Melissa D	P216	Kitajima, Isao	P221, P226	Lee, Woo-Song	P241, P395
Jones, Peter H	P467	Kitayama, Michihiko	P126, P390, P409	Lees, Ann M	P128
Jovinge, Stefan	P271	Klerkx, Anke H	P185	Lees, Robert S	P128
Jukema, J W	P64	Klon, Anthonay	P330	Lehner, Alexander N	P308
Juliano, Rebecca	29	Kluckman, Kimberly	10	Leichter, Rhoda	P107
Juturu, Vijaya	P88	Knabb, Robert M	P371	Leimgruber, Pierre	P374
Kadirvelu, Amudha	P402	Knowlton, Anne A	P56	Leitinger, Norbert	P265, P350
Kadl, Alexandra	P265	Ko, Carol	P139	Leitner, Katharina	P358
Kahn, Mark	P107	Ko, Jesang	P272	LeMaire, Scott	P338, P340, P362
Kajinami, Kouji	P126, P390, P409	Ko, Kerry W S	P112	Lemonidis, Kristina M	P321, P397
Kakutani, Makoto	P278	Kobayashi, Mikio	P51, P355	Lennon, Ryan J	P412
Kalka, Christoph	P434	Kobayashi, Takuya	P110	Lentz, Steven R	P420
Kamanna, Vajijnath S	P281, P428, P433	Kogina, Kazue	P252, P405	Leonardelli, Dominic	P362
Kamei, Caramai N	P195	Kohen-Avramoglu, Rita	P475	Levin, Max	P268, P425
Kan, Hornng-Yuan	P479	Kolar, Satya S	P213	Li, Ai-Hsien A	P404
Kanda, Takeshi	P196	Komatsu, Masayo	P355	Li, Andrew C	P102, P104, P294
Kane, John P	19, P237, P309	Komorowski, James R	P88	Li, Dayuan	P375
Kaneda, Hideaki	P219	Konaniah, Eddy	P164	Li, Hongyan	P250
Kanehara, Hideo	P233	Konstantinides, Stavros	P48	Li, Lijun	P133
Kanemitsu, Seiyu	P126, P390, P409	Koo, Seongjoon	P321	Li, Ling	P101, P330
Kang, Martin	P186	Kordas, Karin C	P474	Li, Rachel	P317
Kangawa, Kenji	P252	Koschinsky, Marlys L	P74, P139, P176	Li, Shaohua	P473
Kanno, Hiroshi	P47	Koshelnick, Yuri	P358	Li, Shu-Lian	P365
Kanter, Jenny E	P454	Kostetskaia, Ekaterina	P59	Liao, Dan	P103
Kapoor, Mini	P429	Kosuge, Keiichiro	P331	Light, David R	P253
Kapoor, Shiv C	15	Kotidis, Konstandinos	P335	Lim, Jina	P351
Kappert, Kai	P206	Kozarsky, Karen	P309	Lin, Simon	P255
Karabina, Sonia-Athina P	P93, P308	Krauss, Ronald M	P322	Lin, Than	P208
Karkkainen, Marika	P354	Krawczyk, Melissa	P403	Lin, Xiaobo	P214
Karlsson, Olof P	P357	Kreuzer, Jörg	P260	Lindgren, Stefan	P280
Karmonik, Christof	P282	Krieger, Monty	P184, P309	Lindholm, Marie W	P158, P442
Kaser, Shawn	P396	Kris-Etherton, Penny M	P85	Lindquist, Kevin C	P357
Kashyap, Moti L	P281, P428, P433	Krizanaac-Bengez, Ljiljana	32	Linton, MacRae F	P149, P150, P315, P450
Kastan, Michael B	25	Krom, Yvonne D	P319	Liscum, Laura	P160
Kastelein, John J	P185	Kronke, Gerhard	P265, P350	Liu, Bo	P201
Katsumoto, Masayuki	P66, P192	Krukovets, Irene	P342	Liu, Gang	P292
Katus, Hugo A	P260	Ku, Sun-Jung	P227	Liu, Joey	P202
Kaul, Upkar	P381	Kubo, Nobuhiko	P47	Liu, Kan-Zhi	P239
Kausser, Katalin	P253	Kuipers, Folkert	P175, P325	Liu, Lijuan	P462
Kawaguchi, Akito	P240	Kuivenhoven, Jan A	P185	Liu, Ming-Lin	P225, P304
Kawamura, Akira	P341	Kulkarni, Medha	19, P237, P309	Liu, Nian	P121, P423
Kawamura, Koichi	P51	Kume, Tsutomu	39	Liu, Tianjiao	P281, P428, P433
Kawano, Mikihiko	P47	Kunugiza, Yasuo	P234	Liu, Tong	P479
Keith, Rebecca S	P87	Kuo, Cho-chou	P138, P432	Lloyd, Eric E	P247
Kell, Pamela J	P43, P190	Kurbanov, Ravshan D	P406	Lodder, Robert A	P211
Kellner-Weibel, Ginny	P155	Kuriakose, George	P139	Loehrer, Franziska	P166
Kelly, Kathryn L	P480	Kurtz, Jennifer	P330	Loftin, Charles D	P297, P336, P449
Kelly, Sandra E	P384	Kuwashima, Rieko	P66, P192	Lominadze, David	P122
Kelm, Malte	P434	Kuypers, Frans A	11	Looper, Sheri	P82
Kensley, Kenneth R	P77	Kwon, Young Joo	P123	Lopez-Estrada, Patricia	13
Kent, K Craig	P201	Kypreos, Kyriakos E	P181	Losert, Udo	26
Keymel, Stefanie	P434	Labosky, Patricia	38	Lowe, John B	P290
Keys, Janelle R	37	LaBreche, Peter	P376	Lu, Guijing	28
Khan, Mehmood	P105	Lakatta, Edward G	P403	Lu, Hong	P446
Khwaja, Haris A	P115	Lalwani, Narendra	P105, P189	Lu, Xiangru	P253
Kiazand, Alexandre	P65, P212, P354	Lamarche, Benoît	30, P311, P329, P472	Lu, Yun	P215
Kim, Dong	P346	Lamendola, Cindy	P97, P228	Lucitt, Margaret	4, P283
Kim, Eun-kyoung	P279	Lammer, Johannes	26	Ludwig, Erwin H	P185
Kim, Francis	P394	Lang, Chim C	P402	Lund-Katz, Sissel	P155, P462, P463, P466
Kim, Hye-Jin	P279	Lang, Irene M	P447	Lusis, Aldons J	P99, P102
Kim, Hyunjung	P465	Langefeld, Carl D	P114	Ma, Yan-Qing	P366
Kim, Jae Joong	P352	Lanting, Linda	P45, P194, P343, P344, P365	MacDougall, Erin D	P154

Mackman, Nigel	13, P369, P370
Mackness, Bharti	P254
Mackness, Mike	P254
MacLea, Kyle	7, P283
Maddox, Deborah H	P85
Madri, Joseph A	8
Maeda, Nuboyo	10
Maeng, Jin Hee	P272
Maguire, Graham F	P182, P326
Maguire, Patricia B	P81, P83
Mahmoudi, Mithra	P253
Maiorano, J Nicholas	P456, P482
Maiyoh, Geoffrey K	P317
Major, Amy S	P149
Mallika, Venkatesan	P381
Mallinson, David	P418
Malloy, Mary J	19, P237, P309
Mamo, John C	P285
Man, Angela	P239
Manning, Jennifer J	3
Mao, Catherine D	P213
Mao, Dongli	P361
Mao, Lan	P210
Marat, Andrea L	P327
Marchadier, Dawn	P163
Marcil, Michel	P311
Maree, Andrew	14
Mareesh, John G	P58
Marguerie, Gérard	P254
Marinic, Tina	P342
Martens, Helge K	33, P367, P373
Martin, Dale D O	P333
Martin-McNulty, Baby	P253
Marvel, Seth	P429
Masaki, Tomoh	P278
Massey, John B	P316
Massey, Philip G	P440
Masuda, Hirotake	P355, P51
Matsui, Shinobu	P390
Matsui, Yuko	P252, P405
Matsumoto, Alan H	P127
Matsuo, Yoshino	P61, P197, P341
Mattsson Hultén, Lillemor	P425
Mauger, Jean-Francois	P311
Maurer, Gerald	P447
Maxfield, Frederick R	P179
Maxwell, Kara N	1
Maxwell, Sarah	P418
Mayberg, Marc R	32
Mayer, Loretta P	P244
Mazurek, Tomasz	P107
Mbai, Fiona N	P56
McCaleb, Jennifer L	P149
McCann, Jennifer A	P69, P363
McClelland, Sarah	P130
McConnell, Joseph P	P412
McCullough, B	P276
McDonald, Thomas O	P246, P399
McHowat, Jane	P43, P190
McKenzie, Steven E	P225
McLaughlin, Tracey L	P97, P228
McManus, Ciara A	P223
McNamara, Peter	22
McPherson, Ruth	P320
Medeiros, Lea A	P153
Mehra, Vishal C	P242
Mehta, Jawahar L	P375
Mehta, Nehal N	P243
Meier, J L	P295
Meininger, Gerald A	P132
Mendez, Armando	P458
Merched, Aksam J	P112
Merrill, Gerald	P144
Mertens, An	P254
Meyer, Marie E	P304
Meyers, Jeffrey G	P412
Mhapsekar, Shailen	P475
Michaelis, Ruth	P62
Micheletta, Fausta	P236
Mielke, C Harold	P374
Mielke, Marcia	P374
Miida, Takashi	P174, P318, P331, P459
Miles, J S	P289
Miles, John	P105
Miles, Lindsey A	P46, P200
Miller, Janice	P345
Miller, Virginia M	P376
Miller, Yury I	34
Mishra, Vinod	P330
Mitchell, Jennifer W	P46
Mitra, Rahul	P429
Mitsudo, Kazuaki	P240
Miura, Shin-ichiro	P61, P197, P303, P341
Miyake, Jon H	P102
Miyamori, Isamu	P233
Miyazaki, Osamu	P174, P318, P459
Miyoshi, Miwa	P66, P192
Moberg, Anna	P271
Mochly-Rosen, Daria	P219
Mokelke, Eric A	P396
Monasterio, Alberto	P264
Monetti, Mara	P269
Montali, Anna	P236
Monteiro, Pedro	P220
Monticone, Robert	P403
Moore, Kathryn J	P153
Moorlegghen, Jessica	P368
Morishita, Ryuichi	P234
Morishita, Tsuyoshi	P256
Morris, Alison M	P386
Morris, Andrew	P224
Morrisett, Joel D	P282, P429
Morrisson, Alanna	P289
Morrisette, Hugo	P76
Morrow, Jason D	P150
Mortada, Mohammad E	P108
Morton, Richard E	P299, P460
Moses, Jonatan	P271
Mosnier, Laurent O	21
Moss, Arthur J	P91
Motton, Deborah D	P408
Mou, Hauming	P364
Mouanoutoua, Mouatou	P108
Movsesyan, Irina	P309
Mukherjee, Rajarshi	P376
Mulya, Anny	10
Murayama, Toshinori	P110
Murdoch, Susan J	P313
Murrah, Nancy	P95
Muslin, Anthony J	25
Mustaffa, M R	P402
Myerson, Merle	P441
Nadler, Jerry L	P298
Nagano, Yutaka	P359
Nakai, Koji	P359
Nakamura, Yuichi	P331
Nakashima, Yasuhide	P98, P256
Nakata, Atsunori	P66, P192
Nam, Ki-Hoan	P279
Nam, Ki-Hwan	P135
Namura, Shobu	32
Nanjo, Hiroshi	P51, P355
Narayananaswami, Vasanthy	P187, P471
Narijneva, Natalya	5
Naruko, Takahiko	P278
Narumiya, Shuh	P110
Naruszewicz, Marek	P117
Nasser, Munira S	23
Nassir, F	P276
Nassir, Fatiha	P476
Natanzon, Yanina	19
Natarajan, Pradeep	P235
Natarajan, Rama	P45, P194, P199, P343, P344, P365
Natoli, Silvia	P236
Nelson, Brenda J	P215
Nestel, Paul	P165
Nesterova, Albina	P52
Newman, Debra K	P78, P80
Newman, Peter J	P78, P80
Ng, Chai H	P402
Ng, Dominic S	P182, P326
Nguyen, David	P463
Nicholl, Suzanne M	P54, P55, P346
Nichols, Marshal	P210
Nickel, Margaret	P155, P462
Niedzwiecki, Aleksandra	P67
Nihei, Shunn-ichi	P98, P256
Nikolic, Dejan M	31
Nilsson, Jan	P158, P271, P280, P442
Nimjee, Shahid M	37
Ninio, Ewa	P254
Nobuyoshi, Masakiyo	P240
Nomura, Shuichi	P66, P192
Nordin Fredrikson, Gunilla	P280
Nordström, Helena	P357
Norris, Jeffrey W	P82
Nowicka, Grazyna	P117
Nozaki, Akira	P252, P405
Numano, Fujio	P119
Numano, Rika	P119
O'Brien, Kevin D	P153, P246, P399
O'Brien, Shawn	P107
O'Keefe, Grant	P258
Obayashi, Konen	P174, P318, P331, P459
Oda, Michael N	P333
Ogihara, Toshio	P234
Oh, Goo Taeg	P135, P279
Okada, Masahiko	P459
Okamura, Keisuke	P61, P341
Okazaki, Hideaki	P126, P409
Okazaki, Masahiro	P256
Okubo, Shinji	P390, P409
Okuhira, Kei-ichiro	3
Olchawa, Beata	P165
Olivecrona, Gunilla	P322
Oliveira, Catarina	P220
Oliver, Ann E	P82
Oliver, Sylvia	P374
Olofsson, Sven-Olof	P157
Olson, Steven	P353
On, Young-Keun	P123
Oram, John F	P100, P235, P302
Orbe, Josune	P264
Orlinska, Urszula	P245
Ormsby, Bernard	28
Otvos, J D	P185
Owen, Whyte G	6, P376
Ozumi, Kiyoshi	P256
Paddock, Cathy M	P78, P80
Painchaud, Chris	P105
Painter, Corrie A	39
Palinski, Wulf	P104
Pamuklar, Zehra N	P224
Pan, Meihui	P179
Panagotopoulos, Stacey E	P229, P393, P456
Panda, Satchidananda	22
Paoletti, Rodolfo	P269
Paradis, Marie E	30, P329
Paradisi, Giancarlo	P142
Páramo, Jose A	P264
Parathath, Saj	2
Parente, Rachele	P269
Park, Jong-Gil	P135
Park, Joong Yeol	P272
Park, Seong Wook	P272, P352
Park, Seung-Phil	P135, P279
Parks, John S	10, 11, P461
Parks, Robin J	P320
Parthasarathy, Sampath	P93, P95, P308
Partridge, Charles R	P132
Pathak, Alok Kumar S	P193, P217, P218

Patston, Philip A	P72	Ravindran, Sriram	P72	Samad, Fahumiya	P245
Paul, Richard J	P347	Raya, Joe L	P90	Samuel, Michael P	P183
Pauletto, Paolo	P432	Razorenova, Olga	5	Sanders, John M	P436
Pawlinski, Rafal	13, P369, P370	Reardon, Catherine A	P141, P148	Santanam, Nalini	P93, P308
Pearson, Thomas A	28, P177	Reaven, Gerald M	P97, P382, P228	Santos, Maria Sancha	P220
Pedersen, Brian S	13, P370	Reaven, Peter	P97	Sarembock, Ian J	P127, P436
Pedro, Luis M	P271	Reddy, Marpadga A	P199, P344	Sarkar, Sibaji	P222
Pei, Hong	P127	Rego, Cristina	P220	Sarov-Blat, Leli	P107
Pelat, Michel	P254	Rehault, Sophie M	P216	Saruta, Takao	P196
Penn, Marc S	P430	Reilly, Dermot F	P49	Sasaguri, Yasuyuki	P256
Pennell, Heather N	P216	Reilly, Michael P	P225	Sato, Ryoko	P126
Perera, Ranjan	P321	Reilly, Muredach	P243, P284	Sato, Yuichiro	P370
Perrard, Jerry L	P443	Reiss, Peter	P170	Satoh, Ryoko	P390, P409
Perrard, Xiao-Yuan D	P443	Religa, Piotr	P435	Sawamura, Tatsuya	P197, P278
Persson, Jenny	P158	Ren, Jie	25	Sawyer, Janet K.	12
Petinos, Nektaria	P321	Rensen, Patrick C N	42, P169, P170, P181, P319, P324, P469	Sawyez, Cynthia G	P473
Petro, Brandon	P95	Resch, Zachary T	P143	Schaap, Frank G	P469
Petrovan, Ramona J	P266	Reusch, Jane E	P52	Schabbauer, Gernot	13, P369
Pham, Chi L L	P153	Rezaee, Mehrdad	P219	Schäfer, Andreas	P79, P377
Phan, Elizabeth T	P436	Rhodes, Charles E	P289	Schäfer, Katrin	P48
Phillips, Michael C	P155, P235, P462, P463, P466	Ritchie, Andrew J	P274, P407	Schaub, Robert	P378
Phillips, Paul S	P474	Richenbacher, W E	P295	Schiopu, Alexandru	P280
Phu, Mai Jane	P187	Roberts, Diane E	P379	Schippers, Emile F	42
Pickering, J G	P473	Roberts, James R	P124	Schirm, Sabine	P253
Pierrri, Humberto	P387	Robertson, Ken	P314	Schlachterman, Alex	38
Pinto, Donald J P	P371	Robichaud, Julie C	P323	Schlitt, Axel	P481
Pires, Nuno M M	P64	Robinson, John F	P431	Schneider, Jochen G	25
Pitoc, George A	37	Roche, Aoife M	P59	Schneider, Laurence	P165
Pitta, Sridevi	P242	Rockman, Howard	P210	Schober, Andreas	P265
Pleshivoy, Yana	P342	Rockson, Stanley G	P65, P212, P354	Schoemer, Stephanie L	P85
Plow, Edward F	P70, P366, P444	Rodriguez, Annabelle	P156	Scholey, James W	P182
Plummer, Michelle R	P315, P389	Rodriguez, Wendi	P189	Schonfeld, Gustav	P214, P484
Pluskota, Elzbieta	P70	Roelofs, Karen J	P191	Schreiber, Barbara M	P160
Podrez, Eugene A	5, P106	Rofaiel, George	P210	Schroede, Miriam	P253
Polyakov, Eugenia	P106	Rogers, Kem A	P431	Schrör, Karsten	P227
Ponomareva, Svetlana V	P372	Romijn, Johannes A.	P169, P170, P325	Schulte, William	P374
Pon, Diana	P168	Ronald, John A	P431	Schultz, Joshua R	P320
Portik-Dobos, Vera	P360	Ronda, Nicoletta	P455	Schurgers, Leon J.	P68, P125, P270
Post, Sabine M	P324	Rong, James X	P411	Schutta, Mark	P243
Post, Steven R	31	Roomi, M W	P67	Schwartz, Stephen M	P154
Pownall, Henry J	P90, P103, P247, P316	Rose, David W	P151	Scott, Catriona	P417
Prager, Gerald W	P358	Rosenfeld, Michael E	P138, P154, P260, P427, P432	Segrest, Jere P	P330
Pratico, Domenico	P116	Rosenkranz, Stephan	P206	Seino, Utako	P174, P318, P459
Price, Erik T	P219	Rossiter, Heidemarie	17	Semenkovich, Clay F	25
Princen, Hans M G	P324	Rothblat, George H	1, 2, P155, P159, P452, P455, P462	Semenova, Svetlana M	P372
Printzén, Wasan	P268	Roztocil, Elisa	P54, P55, P346	Sennello, Joseph A.	P386
Probst, Peter	P447	Rubin, Jill	P177	Senthil, D	P338, P340
Proctor, Spencer D	P285, P384	Rudel, Lawrence L	12, P480	Seo, Toru	29
Proudfoot, Diane	P68, P270	Ruderman, Neil	P160	Serone, Adrian P	P166
Providência, Luis A	P220	Rudic, R Daniel	22, P249	Sessa, William C	16
Pu, Jun	P121, P423	Ruel, Isabelle L	P311, P472	Sesso, Antonio	P387
Pullinger, Clive R	19, P172, P237	Rui, Yao-Cheng	P152	Sevanian, Alex	20, P275
Purdy, Leah	35	Ruotolo, Giacomo	P477	Sha, Jingfeng	P276
Qi, Dongfeng	P215	Rusconi, Christopher P	37	Shaefer, Ernst J	40
Qi, Hongxiu	P99	Rusinol, Antonio E	P248	Shah, P K	P250
Qian, Kun	41	Russell, Craig J H	P274, P407	Shah, Prediman K	P280
Qiao, Jian-Hua	P267	Russell, James C	P384	Shah, Ramesh N	12
Qin, Shucun	P281, P428, P433	Rutledge, John C	P408	Shalev, Yoseph	P108
Qiu, Wei	P475	Rutt, Brian K	P431	Shanahan, Catherine M	P68, P270
Quarck, Rozenn	P254	Ryan, Robert O	11, P322, P471	Shankar, Sudha S.	P142
Quax, Paul H A	P64	Rye, Kerry A	P162, P163, P307	Sharkey, Caroline T	P422
Quenhenberger, Oswald	P294	Ryu, Je-Won	P272	Sharrett, A R	P289, P441
Quick, George	37	Ryu, Young-Han	P135	Shaw, Anthony R	P239
Rader, Daniel J	30, P162, P163, P243, P284	Sacks, Frank M	P313	Shaw, Gray D	P378
Raikwar, Nandita S	P478	Sako, Dianne	P378	Shelness, Gregory S	P188
Ramakrishnan, Rajasekhar	28, P177	Sahar, Saurabh	P45, P199	Shen, Chengyi	P84
Raman, Priya	P342	Sahoo, Daisy	2, P168	Shen, Y	P338, P340
Ramires, Jose A F	P387	Saidel, Gerald M	P430	Shenderova, Anna	P189
Ramos, Kenneth S	P132	Saito, Hiroyuki	P463, P466	Shepard, Marguerite	P142
Rao, Swapna	P292	Sakaki, Yoshiyuki	P119	Sherrid, Ashley M	P301
Rateri, Debra	P211	Sakakibara, Kenji	P201	Sherry, Lorcan	P417, P418
Rateri, Debra L	P140, P273, P368, P424, P446	Sakata, Yasuhiko	P195	Shevchenko, Oleg P	P372
Rath, Matthias	P67	Saku, Keiji	P61, P197, P303, P341	Shi, Guo-Ping	P361
Rattazzi, Marcello	P427, P432	Sakurabayashi, Ikunosuke	P47	Shi, MingJian	P109, P251
Rausch, Douglas	P215	Salomon, Robert G	P106	Shi, Minhua	P239
Rausens, Vincent	P471			Shi, Weibin	P127
Raveendran, M	P338, P340			Shi, Yi	P107

Shingu, Tetsuji	P66, P192	Takatsu, Hiroyuki	P256	Urbas, Aaron	P211
Sho, Eiketsu	P51, P209, P355	Takekoshi, Noboru	P126, P390, P409	Ustinov, Valentin A	P444
Sho, Mien	P51, P209	Talan, Mark	P403	Utama, B	P338, P340
Shohet, Ralph V	P58	Tamura, Noriko	P221, P226	van 't Hooff, Ferdinand M	P477
Short, Robert	P374	Tan, Hongmei	P103	van Bockxmeer, Frank M	P314
Siennicka, Aldona	P117	Tan, Marietta	P419	van der Hoogt, Caroline C	42, P319
Silveira, Angela	P477	Tan, Mingqi	P349	van der Valk, Marc	P170
Silverstein, Roy L	P106	Tanaka, Masafumi	P466	Van der Vliet, Hendrik N	P469
Simon, Daniel I	P195	Tandon, Suman	8	van der Westhuyzen, Deneys R	P305, P328
Sinensky, Michael S	P248	Tang, Chongren	P100	van der Zee, André	P319
Singaraja, Roshni	P186	Tang, Tri B.	P351	van Dissel, Jaap T	42
Sinha, Anjan K	P375	Tanigawa, Hiroyuki	P61, P197, P341	Van Guilder, Gary P	P87, P231
Sinha, Indranil	P191	Tanski, William J	P346	van Tol, Arie	P167
Sinha, Nandita	P375	Tasaki, Hiroimi	P98, P256	van Vlijmen, Bart J M	P64, P181
Siostrzonek, Peter	P447	Tashiro, Katsuya	P446	Vance, Dennis E	P178, P310, P323
Sitzmann, James V	P205	Tatematsu, Satoru	P196	VanderLaan, Paul A	P141
Skill, Nicholas J	P205	Taylor, Addison A	P90	VanEpps, J S	P113, P437
Smith, Barbara D	P345	Taylor, Scott M	P225	Vantler, Marius	P206
Smith, C W	P443	Taylor, W R	P426	VanVickle, Sarah J	P361
Smith, Charles V	P90	Tei, Hajime	P119	Vargas, Fernando B	24
Smith, Jonathan D	P300	Temel, Ryan E.	P480	Vasef, M A	P295
Smyth, Emer M	P59	Ten Cate, Hugo	P388	Vaughan, Ashley M	P100
Smyth, Susan	P224	Tencati, Michael	13, P369	Vaughan, Douglas E	39, P204
Soda, Satoshi	P331	Teupser, Daniel	P198, P419	Vedhachalam, Charulatha	P462
Söderberg, Ingrid	P280	Teusink, Bas	P169, P325	Veledar, Emir	P95
Sorci-Thomas, Mary G	P183, P470	Theodorakis, Janice L	P205	Verhamme, Peter	P254
Soute, Berry A M	P68, P125, P270	Theodorakis, Nicholas G	P205	Verhelle, Dominique	P151
Sparks, Charles E	P91, P464	Therault, Andre G	P317	Verkade, Henkjan J	P175
Sparks, Daniel L	P320	Theurer, Kari	P164	Vermeer, Cees	P68, P125, P270
Sparks, Janet D	P464	Thewke, Douglas P	P248	Verna, Lynne	P218
Speer, Mei Y	P427	Thiery, Joachim	P198	Verreth, Wim	P254
Spencer, Craig	P139	Thomas, Michael J	P183, P470	Via, David P	P247
Spinetti, Gaia	P403	Thompson, Joel C	P213	Vincelette, Jon	P253
Spronk, Henri M H	P68, P270	Thompson, Robert W	P361	Vine, Donna F	P285
Staels, Bart	P324	Thorne-Tjomsland, Gro	P327	Viriyakosol, Suganya	34
Stajduhar, Karl	P144	Thorngate, Fayanne E	P461	Vishnu, Meeta	P172
Stanhope, Kimber	28	Thyberg, Johan	P435	Vitturi, Nicola	P401
Stanley, James C	P191	Tiefenbrun, Jonathan	P262	Vorp, David A	P113, P437
Stanzel, Roger	P74	Tigno, Xenia T	P332, P483	Voshol, Peter J	P169, P170, P325, P469
Stauffer, Brian L	P87, P231	Tillman, J E	P453	Voss, John C	P333
Stein, Judy L	P467	Timenetski, Jorge	P387	Wadanoli, Michael	P378
Steinberg, Helmut O	P142	Timmins, Jenelle M	10	Wagenknecht, Lynne E	P114
Steinkamp, Thomas	P376	Tintut, Yin	P351	Wagner, Paul	P85
Sterman, Michael	P118	Todorov, Ivan	P45	Wajngarten, Mauricio	P387
Stenina, Olga I	P342	Tomita, Naruya	P234	Wakino, Shu	P196
Stice, James P	P56	Tomita, Sayo	P341	Walcarius, Rhonda	P431
Stillemark Billton, Pia	P157, P180	Ton, Mimi	29	Walker, Naomi J	P82
Stone, Phillip J	P160	Tondella, Maria Lucia C	P292	Walter, Ulrich	P79, P377
Stouffer, George A	P193, P217, P218	Toomey, Sinead M	P130, P422	Wan, Hongquan	P101
Street, Scott	P164	Torres, Alejandra	P208	Wang, Bing H.	P129
Stringer, Kathleen A	P287	Toth, Robert J	P437	Wang, Hong	P103, P443
Strunz, Célia M C	P387	Toyokawa, Tsuyoshi	P98	Wang, J	P338, P340
Stuhlmann, Heidi	18	Tran, Khai	P314, P327	Wang, Lijuan	P364
Sturek, Michael	P396	Tremblay, André J	P76, P472	Wang, Lin	P121, P345, P423
Su, Yan Ru	P450	Tremoli, Elena	P269	Wang, Mingyi	P403
Subramaniam, Kannan	P321	Trepal, D	P276	Wang, Rong	P179
Sugimoto, Tsuneaki	P252, P405	Treumann, Achim	P81	Wang, Shari A.	P138
Sugita, Akihiro	P51	Trigulova, Raisa K	P406	Wang, Steven	P292
Sullenger, Bruce A	37	Trinkl, Andreas	P373	Wang, Wei	P291, P416
Sun, Fengcheng	P327	Trivedi, Darshini	P336, P449	Wang, X L	P338, P340
Sun, M	P106	Trojan, Eugene	36, P411	Wang, Xing L.	P362
Suzuki, Jinya	P233	Tsai, Julie	P475	Wang, Xinwen	P362
Suzuki, Katsunori	P174, P318, P331	Tsao, Phillip	P228, P354	Wang, Xuping	P99
Sviridov, Dmitri	P165	Tschachler, Erwin	17	Wang, XuShan	P339
Swanson, Jeffrey	P354	Tsimikas, Sotirios	P120	Wang, Yanmei	P448
Swift, Larry L	P315	Tso, Patrick	P476	Wang, Yi-Xin	P253
Szanto, Attila	P305	Tsakadze, N	P122	Wang, Yin	P375
Tabas, Ira	P139, P310	Tsugawa, Hiroichi	P390	Wang, Yinning N	P205
Tabei, Fumiko	P252, P405	Tsutsui, Masato	P256	Wang, Yun	P129
Tablin, Fern	P82, P380	Tuey, Kristen	P322	Wang, Yutong	P302
Tahiri, Persida	P470	Tumuluri, Ramagopal	P108	Ward, John	P144
Tai, Shing Jen	38, P203	Tysselting, Kelly	P394	Watson, Cathy	P189
Takahashi, Masato	P51, P355	Ueda, Makiko	P278	Watson, Peter A	P52
Takahashi, Sadao	P233	Uehara, Yoshinari	P61, P197, P303, P341	Watts, Gerald F	P166
Takahashi, Yoshitaka	P298	Umeda, Yuka	P66, P192	Webb, Nancy R	23, P305, P328
Takamatsu, Ichiro	P196	Underhill, Hunter	P277	Weber, Artur-Aron	P227
Takata, Yasunori	P202, P291, P293, P416	Upchurch, Gilbert R	P191	Weber, Christian	P265

Webster, Thomas J	P69	Yang, Chao Y	P90
Wei, Pingzi	P99	Yang, Hong	P109, P251
Weinberg, Richard B	P173, P188, P306	Yang, Jun-Hai	P90
Weintraub, William	P95	Yang, Peng-Yuan	P152
Weisgraber, Karl H	P461	Yang, Xiaofeng	P103
Weissberg, Peter L	P68, P270	Yao, Yuemang	P116
Welty, Francine K	P229, P393	Yao, Zemin	P314, P320, P327
Wen, Shan	P440	Yaraei, Kambiz	P138, P432
Wen, Shixiang	P362	Yegneswaran, Subramanian	21
Wen, Yeshao	P298	Yeh, Michael	P267, P438
Weintraub, N L	P295	Yeung, Alan C	P219
West, Sheila G	P85	Yin, Fen	P416
Whalin, Matthew K	P426	Yokode, Masayuki	P110
Whinna, Herbert C	P216	Yokoi, Hiroyoshi	P240
Whipple, Charles P	P321, P397	Yoshimoto, Tanihiro	P298
Whitaker, Nathan L	P328	Yoshioka, Kyoko	P196
White-Welkley, Jill	P95	Young, Stephen G	P411
Whitfield, Amanda J	P314	Yu, Jun	16
Whitman, Stewart C	35	Yu, Liqing	27
Wickenheiser, Kevin J	24	Yuan, Chun	P277
Widder, Julian	P79, P377	Yuan, Yuan	P266
Wiedemann, Tokuko S	P119	Yue, Brian W	P255
Wight, Thomas N	P246, P399	Yue, Pin	P214, P484
Wiklund, Olov	P268	Zafar, Mohammad N	P396
Wilburn, Paul	P65, P212	Zafari, A Maziar M	P292
Wilks, Jonathan	P362	Zalewski, Andrew	P107
Willems van Dijk, Ko	P181, P319, P469	Zambon, Alberto	P401
Williams, David L	2, P155, P168, P452, P461	Zannis, Vassilis I	P184, P479
Williams, Kevin J	P179, P225, P304	Zanotti, Ilaria	P159, P455
Wilson, Emily	P132	Zapolska-Downar, Danuta	P117
Wilson, Katina M	P420	Zareba, Wojciech	P91
Wilson, Martha S	P480	Zebboudj, Amina	P208
Wilson, Stephen J	P59	Zellner, Christian	P309
Wilund, Kenneth R	27	Zenimaru, Yasuo	P233
Witta, Jassir	P140	Zhang, Bo	P197
Witting, Scott R	P456	Zhang, Cun-Tai	P121, P423
Witztum, Joseph L	34, P104, P120, P124, P148	Zhang, Di	P403
Woelkers, Douglas A	P124	Zhang, Guangfan	P213
Wolfe, Megan L	P243, P284	Zhang, Jing	P403
Wolfert, Robert	P97	Zhang, Lifeng	P107
Won, Katie A	P215	Zhang, Ping	P107
Won, Tachee	P362	Zhang, Weiqing	P353
Wong, Jack	P99	Zhang, Xingjiang	P375
Wong, Pancras C	P371	Zhang, Y	P94
Woollett, Laura A	P456	Zhang, Youmin	P150
Wooton-Kee, Clavia R	23	Zhao, Guixiang	P85
Worgall, Tilla S	29	Zhao, Renyi	P193, P217, P218
Worku, Berhane	P201	Zhao, Yang	P178
Worrall, Dorothy S	34	Zhao, Yue	P461
Wrenn, Steven P	P155	Zheng, Chunyu	P313
Wright, C Michael	P262	Zheng, Jing Gang	P356
Wu, Chuanyue	P113, P437	Zhong, Jian	P84
Wu, Huaizhu	P443	Zhou, Xin	P129
Wu, Kenneth K	P441	Zhu, Shoukang	P255
Wu, Sheng-Qian	P60	Zhu, Xianghong	P182
Wu, Xiaohui	P99	Zhu, Yanjuan	P347
Wunderlich, Nathalie	P373	Zhu, Zhiming	P84, P364
Xaymardan, Munira	P356	Zhuge, Xin	P110
Xiang, Fan	P195	Zimetti, Francesca	P455
Xu, Huaxia	P58	Zou, Yiping	P54
Xu, Li	P448	Zou, Zhongmin	18
Xu, Shangzhe	P309	Zukowska, Zofia	P133
Xu, Xuemin	P349		
Xu, Yang	P110		
Xu, Zhong-Gao	P344		
Xydakis, Antonios M	P90, P467		
Yamada, Shigeki	P47		
Yamada, Tatsuo	P303		
Yamada, Toshiyuki	P459		
Yamamoto, Akira	P240		
Yamamoto, Isao	P47		
Yamamoto, Tokuo T	P233		
Yamasaki, Keita	P234		
Yamashita, Kazuhito	P256		
Yamauchi, Mikako	P142		
Yamauchi, Misa	P355		
Yan, Zhencheng	P84		





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