Letter from the President and Program Committee Chair

Dear Colleague,

On behalf of the Board of Directors of the American Society of Hypertension, Inc. (ASH), we are pleased to welcome you and cordially invite you to join us at the Twenty-Seventh Annual Scientific Meeting and Exposition of ASH. The meeting will be held at the Hilton NY (6th and 53rd St.), May 19–22, 2012. The theme of this year’s Scientific Meeting is Hypertension and the Cardiovascular System.

The 2012 Annual Scientific meeting topics are organized around three concurrent themes:

- Translational Issues in Hypertension
- Therapy of Hypertension
- Pathobiology of Hypertension

The Scientific Sessions feature several innovative components designed to enhance the translation of basic and applied research into effective hypertension prevention and treatment strategies.

- **Hypertension Highlights 2012 – Saturday, May 19, 2012**
  Hypertension Highlights is a full-day program dedicated to educating clinicians and scientists about some of the most interesting, controversial and evolving topics in the field. It is an ideal update for Hypertension Specialists and those wishing to become specialists in the field.

- **Plenary Session I – Sunday, May 20, 2012**
  The Keynote speaker for the opening session will be Richard C. Becker, MD, Professor of Medicine, Divisions of Cardiovascular Medicine and Hematology, Duke University School of Medicine, Director, Duke Cardiovascular Thrombosis Center, Duke Clinical Research Institute, Durham, NC. Dr. Becker will speak about the “Development of Anti-thrombotic Therapies in Cardiovascular Medicine.” Following Dr. Becker’s lecture will be Dr. John Burnett, Marriott Family Professor of Cardiovascular Research, Mayo Clinic College of Medicine, Mayo Heart and Lung Research Center Director, Mayo Clinic, Rochester, MN presenting a lecture on “Designer Natriuretic Peptides.” Dr. Ravi Thadhani, Director of Clinical Research in Nephrology at the Massachusetts General Hospital and Associate Professor of Medicine at Harvard Medical School, Boston, MA will present a lecture on “Vitamin D Sterols, Hypertension and Renal Disease” and Dr. Marc Sabatine, Associate Physician, Division of Cardiovascular Medicine, Brigham and Women’s Hospital, Assistant Professor of Medicine, Harvard Medical School, Boston, will address the topic of “Clinical Benefits of New Anti-thrombotic Therapies from a Trialist’s Perspective.”

- **Plenary Session II – Monday, May 21, 2012**
  The ASH Distinguished Scientist Award, Young Scholar Award and Marvin Moser Clinical Hypertension Award will be presented in Plenary Session II - the ASH Awards Session.

- **Young Investigator-in-Training Abstract Competition – Saturday, May 19, 2012**
  Trainees submitting the highest ranking abstracts to the meeting will present their work orally in a special session and compete for cash prizes. This highlighted session is consistent with ASH’s goal to foster and facilitate the training of young and new investigators in hypertension.

- **Hypertension for the Primary Care Clinician – Sunday, May 20, 2012**
  This program will address commonplace questions that face clinicians in day-to-day care of hypertension including peri-operative hypertension management, clinical partners in ambulatory care management of hypertension and the resistant hypertensive patient.

- **Debates – Saturday, May 19 – Monday, May 21, 2012**
  This year there are five debates on controversial topics of relevance to Hypertension Specialists:
  - Debates Topics:
    - Hypertension is Not a Cause of Chronic Kidney Disease
      Jeffrey B. Kopp, MD, Bethesda, MD and
      Anil K. Bidani, MD, FASH, Maywood, IL
    - There Should be Regulatory Steps to Reduce Salt Intake to Lower the Burden of Cardiovascular Disease
      Graham MacGregor, MD, London, United Kingdom and
      Jan A. Staessen, MD, PhD, Leuven, Belgium
    - The Evidence Supports a Systolic Target of 140 mmHg
      William C. Cushman, MD, FASH, Memphis, TN and
      Henry R. Black, MD, FASH, New York, NY
    - Blood Pressure in Hemodialysis Patients should be Aggressively Lowered
      Rajiv Agarwal, MD, FASH, Indianapolis, IN and
      Kamyar Kalantar Zadeh, MD, MPH, Torrance, CA
    - Biomarkers Should be Used in Screening Patients with Hypertension
      Domenic A. Sica, MD, Richmond, VA and
      Ramachandran S. Vasan, MD, Framingham, MA
  - Joint Society Symposia
    Interactions with other societies, both national and international, focused on the topic of hypertension and cardiovascular disease risk will be covered. For 2012 the Joint Society Sessions include:
    - The AHA Council for High Blood Pressure Research (HBPR), the Association for Research into Arterial Structure and Physiology (ARTERY), the British Hypertension Society (BHS) the China Social Worker's Association Vascular Protection Committee, the European Society of Hypertension (ESH), the International Society on Hypertension in Blacks (ISHIB), the Preventive Cardiovascular Nurses Association (PCNA) and the Safety Pharmacology Society (SPS).

The Society will also sponsor a small number of industry-supported Satellite Symposia which will introduce novel approaches to antihypertensive therapy. The Pavilion will host many informative scientific, technical, periodical and book exhibits designed to support you in your mission of providing the latest in care for your hypertensive patients.

We look forward to seeing you in New York.

Sincerely,

George L. Bakris, MD, FASH
President, 2010 – 2012

William B. White, MD, FASH
Chair, 2012 Scientific Program Committee
About The American Society of Hypertension, Inc.

The American Society of Hypertension, Inc., (ASH) is the largest organization of hypertension researchers and health care providers in the United States committed to eliminating hypertension and its consequences. ASH has a domestic and international membership of basic science and clinical investigators, physicians, physician assistants, nurse practitioners and pharmacists, as well as other individuals with a scientific interest in hypertension.

The primary mission of the Society is to improve the care of patients with hypertension and associated disorders by:

• **Enhancing** the education and treatment of patients with hypertension
• **Educating** health care professionals regarding hypertension and current prevention and treatment strategies
• **Assisting** health care professionals in addressing the challenges of the modern-day care of patients with hypertension
• **Advocating** public policy that ensures patient access to high quality hypertension care and supports increased hypertension research
• **Facilitating** communication and collaboration among providers, investigators, policymakers, and patients in areas relating to hypertension and vascular health
• **Promoting** the career development of researchers in hypertension and associated disorders, including research in the pathobiology, prevention, diagnosis, treatment, and psychosocial aspects of hypertension

The American Society of Hypertension, Inc. is an accredited provider of Continuing Medical Education (CME) by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

For more information contact the American Society of Hypertension, Inc. at:

**American Society of Hypertension, Inc.**
148 Madison Avenue, Fifth Floor
New York, NY 10016
Telephone: 212-696-9099
Fax: 212-696-0711
E-mail: ash@ash-us.org
Website: www.ash-us.org

Past Presidents of the American Society of Hypertension, Inc.

John H. Laragh, MD  
First President

Edward G. Biglieri, MD  
President 1988 – 1990

Jay N. Cohn, MD  
President 1990 – 1992

Louis Tobian, MD  
President 1992 – 1994

Barry M. Brenner, MD  
President 1994 – 1995

Lawrence R. Krakoff, MD  
President 1995 – 1996

Michael H. Alderman, MD  
President 1996 – 1998

Michael A. Weber, MD  
President 1998 – 2000

Theodore W. Kurtz, MD  
President 2000 – 2002

Haralambos Gavras, MD  
President 2002 – 2004

Thomas D. Giles, MD  
President 2004 – 2006

Jean E. Sealey, DSc  
President May 19, 2006

Suzanne Oparil, MD  
President 2006 – 2008

Henry R. Black, MD  
President 2008 – 2010
2012 Scientific Program Committee

George L. Bakris, MD, FASH, President
William B. White, MD, FASH, Chair

Pathobiology of Hypertension
Richard J. Johnson, MD, Co-Chair
John C. Burnett, Jr., MD
Luis A. Juncos, MD
Peter F. Wilson, MD
Alejandro R. Chade, MD
David M. Pollock, PhD
Gregory D. Fink, PhD
Christopher S. Wilcox, MD, PhD

Translational Issues in Hypertension
Vasilios Papademetriou, MD, FASH, Co-Chair
Rajiv Agarwal, MD, FASH
Daniel T. Lackland, DrPH, FASH
Gary V. Desir, MD
Bertram Pitt, MD
Daniel Duprez, MD, PhD FASH
Elaine M. Urbina, MD, MS, FASH

Therapy of Hypertension
Raymond R. Townsend, MD, FASH, Co-Chair
Douglas A. Blowey, MD
Jeffrey W. Olin, DO
Jackson T. Wright, Jr., MD, PhD, FASH
Michael Gutkin, MD
Sandra J. Taler, MD, FASH
Costantino Iadecola, MD
James A. Underberg, MD, MS, FASH

Primary Care
Jan N. Basile, MD, FASH and Domenic A. Sica, MD, Chairs
Jerry G. Back, MD, FASH
Anthony J. Viera, MD, MPH
William J. Elliott, MD, PhD, FASH
Louis Kuritzky, MD

ASH 2012 Important Dates*

January 16 – March 16, 2012 ASH Fellowship Program Accepting Applications
March 8, 2012 Late-Breaking Abstract Submission Deadline
March 31, 2012 ASH Specialist Examination Application Deadline
April 4, 2012 Advance Registration and Housing Deadline
April 27, 2012 Housing Cancellation Deadline
April 27, 2012 Registration Cancellation Deadline
May 12 – 26, 2012 ASH Specialist Program 2012 Clinical Hypertension Examination Testing Period
May 19 – 22, 2012 ASH 27th Annual Scientific Meeting and Exposition
May 19, 2012 Hypertension Highlights 2012
May 20, 2012 Hypertension for the Primary Care Clinician Curriculum

*See ASH website for more information, www.ash-us.org
Education

Program Objectives
In keeping with the purpose of the American Society of Hypertension, Inc. (ASH), the Twenty-Seventh Annual Scientific Meeting is designed to encourage and promote the development, advancement, and exchange of fair and balanced information regarding the research, diagnosis and treatment of hypertension and related cardiovascular diseases with improved patient care and wellness outcomes as the underlying theme. The sessions will...

• Present and examine new findings on the physiology, pathophysiology, epidemiology, diagnosis, and management of hypertension and related conditions
• Review current state-of-the-art advances in managing particular groups of patients
• Evaluate specific treatment modalities and pharmacological agents

Target Audience
Physicians, scientists, pharmacists, physician assistants, nurses and other health care professionals with an interest in the mechanisms or management of hypertension and related diseases will benefit from attending Plenary Sessions, Symposia, Debates, Joint Sessions, Poster Sessions, and the Scientific Exposition.

Continuing Education Credit
The American Society of Hypertension, Inc. is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The American Society of Hypertension, Inc. designates this educational activity for a maximum of 30 AMA PRA Category 1 Credits™. Each physician should claim credit commensurate with the extent of their participation in the activity.
General Information

Meeting Venue
Headquarters
Hotel
Hilton NY
1335 Avenue of the Americas
New York, NY 10019
Phone: 1-212-586-7000
Fax: 1-212-315-1374

Hotel Reservations
Sleeping Room Rate – $276 plus local and state tax
Make your hotel reservations using the ASH website – www.ash-us.org. Click onto the housing link and that will take you into the Hilton NY reservation system. You will receive ASH Annual Meeting Rates.

All guests staying at the Hilton NY in the ASH block will receive complimentary internet access in the room.

Registration for the ASH Annual Meeting

International Registrants
ASH strongly advises participants to determine their individual visa requirements. Individuals traveling to the United States from other countries require a passport and in some cases, a visitor’s visa. Please check with your travel agent, airline or local embassy/consulate at least four (4) months before the meeting. A visa may take 8-12 weeks to be processed.

ASH’s registration agent will provide letters of invitation for visa purposes by request. A Letter of Invitation is meant to help attendees obtain a visa and is not a commitment on the part of the organizers to provide any financial support. The decision to grant a visa belongs solely to the embassy/consulate. ASH cannot change the decision of the government agency.

Travel to the ASH Annual Meeting
New York is easily accessible from any city in the US or abroad via the John F. Kennedy International Airport, Newark Liberty International Airport and LaGuardia Airport. Once in the city, take the MTA subway and bus to negotiate your way around – whether you want to go to Chelsea, the Upper East Side, Broadway, Lincoln Center, or to Little Italy and Chinatown. There is so much to see and do just a subway ride away.

Climate
New York’s weather is very seasonal. In January through March, temperatures stay around 30 degrees F. Snowfalls are not unusual; in fact, the city has experienced a few “blizzards” over time. April and May escort in the tulips and daffodils with temperatures ranging from 40 to 50 degrees but it can hit 70 degrees F.
Program Information

Hypertension Highlights 2012
Hypertension Highlights is a full-day program dedicated to educating clinicians and scientists about some of the most interesting, controversial and evolving topics in the field. The program includes state-of-the-art presentations on the artery, the kidney and the heart. It is an ideal update for Hypertension Specialists and those wishing to become specialists in the field.

Saturday, May 19, 2012 7:30 AM to 3:00 PM

ASH Plenary Sessions
Plenary Sessions feature engaging lectures by keynote speakers. The topics are of broad general interest.

Sunday, May 20, 2012 1:00 PM to 3:30 PM
Monday, May 21, 2012 1:30 PM to 3:30 PM

ASH Scientific Sessions
The Scientific Sessions will address basic and clinical science issues over a wide range of topics.

Saturday, May 19, 2012 4:00 PM to 5:30 PM
Sunday, May 20, 2012 9:45 AM to 11:30 AM 3:45 PM to 5:30 PM
Monday, May 21, 2012 8:00 AM to 10:00 AM 10:30 AM to 12:00 PM
Tuesday, May 22, 2012 7:45 AM to 9:15 AM 10:00 AM to 11:30 AM

Hypertension for the Primary Care Clinician
The Hypertension for the Primary Care Clinician program will address commonplace questions that face clinicians in day-to-day care of hypertension.

Sunday, May 20, 2012 7:30 AM to 12:30 PM

Joint Sessions
Special Sessions jointly sponsored by Society-related organizations will enrich the knowledge base and foster new interactions between attendees.

Saturday, May 19, 2012 4:00 PM to 5:30 PM
Sunday, May 20, 2012 8:00 AM to 9:30 AM
Monday, May 21, 2012 3:45 PM to 5:15 PM
Tuesday, May 22, 2012 10:00 AM to 11:30 AM

How-To Sessions
Distinguished faculty will provide valuable instructions on topics important to your practice.

Attendees will be admitted on a first-come, first-served basis.

Monday, May 21, 2012 5:30 PM to 6:30 PM

Clinical Debates
Clinical Debates will provide for lively discussion on controversial topics.

Saturday, May 19, 2012 4:00 PM to 5:00 PM
Sunday, May 20, 2012 8:00 AM to 9:00 AM
Monday, May 21, 2012 4:15 PM to 5:15 PM

Abstract Presentations
Authors will showcase their research in oral or poster format.

Saturday, May 19, 2012 5:45 PM to 6:45 PM
Sunday, May 20, 2012 5:45 PM to 6:45 PM
Monday, May 21, 2012 5:30 PM to 6:30 PM
Technical Exhibits

Technical Exhibits will be located in the Hypertension Resource Pavilion at the Hilton NY. ASH will host a welcome reception, lunches, and high teas in the exhibit hall.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday, May 21, 2012</td>
<td>4:00 PM to 7:00 PM</td>
</tr>
<tr>
<td>Opening Reception</td>
<td>5:45 PM to 7:00 PM</td>
</tr>
<tr>
<td>Sunday, May 22, 2012</td>
<td>10:30 AM to 12:55 PM</td>
</tr>
<tr>
<td></td>
<td>and 3:30 PM to 6:45 PM</td>
</tr>
<tr>
<td></td>
<td>5:45 PM to 6:45 PM</td>
</tr>
<tr>
<td>Monday, May 23, 2012</td>
<td>10:00 AM to 1:30 PM</td>
</tr>
<tr>
<td></td>
<td>and 4:00 PM to 6:30 PM</td>
</tr>
<tr>
<td></td>
<td>5:30 PM to 6:30 PM</td>
</tr>
</tbody>
</table>

Innovations Theater

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday, May 21, 2012</td>
<td>5:45 PM to 6:45 PM</td>
</tr>
<tr>
<td>Sunday, May 22, 2012</td>
<td>11:45 AM to 12:45 PM</td>
</tr>
<tr>
<td></td>
<td>5:45 PM to 6:30 PM</td>
</tr>
<tr>
<td>Monday, May 23, 2012</td>
<td>12:15 PM to 1:15 PM</td>
</tr>
</tbody>
</table>
2012 ASH Faculty

Rajiv Agarwal, MD, FASh
Indianapolis, IN

Walter T. Ambrosius, PhD
Winston-Salem, NC

Lawrence J. Appel, MD, MPH, FASh
Baltimore, MD

Nancy T. Artinian, PhD, RN
Detroit, MI

Phyllis August, MD, MPH
New York, NY

Jerry G. Back, MD, FASh
Ladson, SC

George L. Bakris, MD, FASh
Chicago, IL

David P. Basile, PhD
Indianapolis, IN

Jan N. Basile, MD, FASh
Charleston, SC

Marcus Baumann, MD
Munich, Germany

Richard C. Becker, MD
Durham, NC

Jeffrey S. Berger, MD, MS
New York, NY

Jeffrey S. Berns, MD
Philadelphia, PA

Kenneth E. Bernstein, MD
Los Angeles, CA

Suzanne M. Bertisch, MD
Boston, MA

Anil K. Bidani, MD, FASh
Maywood, IL

John D. Bisognano, MD, PhD, FASh
Rochester, NY

Henry R. Black, MD, FASh
New York, NY

Veita J. Bland, MD, FASh
Greensboro, NC

Michael J. Bloch, MD, FASh
Reno, NV

Jeffrey S. Borer, MD
New York, NY

John C. Burnett, Jr., MD
Rochester, MN

David A. Calhoun, MD
Birmingham, AL

Robert M. Carey, MD
Charlottesville, VA

Barry L. Carter, PharmD, FASh
Iowa City, IA

Alejandro R. Chade, MD
Jackson, MS

Wiley V. Chan, MD
Portland, OR

Alfred K. Cheung, MD
Salt Lake City, UT

Marilyn J. Cipolla, PhD
Burlington, VT

Debbie L. Cohen, MD
Philadelphia, PA

Loia Coke, PhD, ACNS-BC
Chicago, IL

William C. Cushman, MD, FASh
Memphis, TN

R. Garret Cynar, MD
Dallas, TX

Alexandre A. da Silva, PhD
Jackson, MS

Prakash C. Deedwania, MD, FASh
Fresno, CA

Cheryl Dennison, PhD, RN, ANP
Baltimore, MD

Gary V. Desir, MD
New Haven, CT

Richard B. Devereaux, MD
New York, NY

Javier Diez, MD, PhD
Pamplona, Spain

Michael N. Doumas, MD
Thessaloniki, Greece

Daniel Duprez, MD, PhD, FASh
Minneapolis, MN

Lance D. Dworkin, MD
Providence, RI

Brent M. Egan, MD, FASh
Charleston, SC

Paula T. Einhorn, MD, MS
Bethesda, MD

Patrick T. Ellinor, MD
Boston, MA

William J. Elliott, MD, PhD, FASh
Yakima, WA

Murray Epstein, MD
Miami, FL

Keith C. Ferdinand, MD, FASh
Atlanta, GA

Gregory D. Fink, PhD
East Lansing, MI

Stanley S. Franklin, MD, FASh
Los Angeles, CA

Vesna D. Garovic, MD
Rochester, MN

F. Wilford Germino, MD, FASh
Orland Park, IL

Thomas D. Giles, MD, FASh
New Orleans, LA

Philip B. Gorelick, MD, MPH
Grand Rapids, MI

Alan H. Gradman, MD, FASh
Pittsburgh, PA

Martha Gulati, MD, MS
Chicago, IL

Michael Gutkin, MD
Livingston, NJ

John E. Hall, PhD
Jackson, MS

Joel Handler, MD, FASh
Anaheim, CA

David G. Harrison, MD
Nashville, TN

Anthony M. Heagerty, MD
Manchester, United Kingdom

Martha N. Hill, RN, PhD
Baltimore, MD

Norman K. Hollenberg, MD, PhD
Boston, MA

David J. Hyman, MD, MPH
Houston, TX

Costantino Iadecola, MD
New York, NY

Iris Z. Jaffe, MD, PhD
Boston, MA

José Jalife, MD
Ann Arbor, MI

Karen C. Johnson, MD, MPH
Memphis, TN

Richard J. Johnson, MD
Denver, CO

Stevo Julius, MD, ScD
Ann Arbor, MI

Kamyar Kalantar-Zadeh, MD, MPH, PhD
Torrance, CA

Norman M. Kaplan, MD
Dallas, TX

S. Ananth Karumanchi, MD
Boston, MA

Jeffrey B. Kopp, MD
Bethesda, MD

Peter R. Kowey, MD
Wynnewood, PA
Henry Krum, PhD, MBBS
Melbourne, Australia

Louis Kuritzky, MD
Gainesville, FL

Edward G. Lakatta, MD
Baltimore, MD

Derek Leishman, BSc, PhD
Indianapolis, IN

Lilach O. Lerman, MD, PhD
Rochester, MN

Richard P. Lifton, MD, PhD
New Haven, CT

Joao A.C. Lima, MD
Baltimore, MD

Marshall Lindheimer, MD
Chicago, IL

Aishi Liu, MD
Hohhot, China

Tianhu Liu, MD
Chengdu, China

Ian M. Loftus, MD
London, United Kingdom

Jianfang Luo, MD
Guangzhou, China

Graham MacGregor, MD
London, United Kingdom

George A. Mansoor, MD
Rahway, NJ

Barry J. Materson, MD, MBA, FASH
Miami, FL

Franz H. Messerli, MD, FASH
New York, NY

Nancy Houston Miller, RN, BSN
Palo Alto, CA

Gary F. Mitchell, MD
Norwood, MA

Lewis B. Morgenstern, MD
Ann Arbor, MI

L. Gabriel Navar, PhD
New Orleans, LA

Jane Nelson-Worel, MS, APNP
Middleton, WI

Eoin O’Brien, MD
Dublin, Ireland

Gbenga Ogedegbe, MD, MPH, MS, FASH
New York, NY

Jeffrey W. Olin, DO
New York, NY

Suzanne Oparil, MD, FASH
Birmingham, AL

Vasilios Papademetriou, MD, FASH
Washington, DC

Aldo J. Peixoto, MD, FASH
West Haven, CT

Robert A. Phillips, MD, PhD, FASH
Worcester, MA

F. Xavier Pi-Sunyer, MD, MPH
New York, NY

Bertram Pitt, MD
Ann Arbor, MI

David M. Pollock, PhD
Augusta, GA

Jennifer S. Pollock, PhD
Augusta, GA

Leopoldo Raji, MD, FASH
Miami, FL

C. Venkata S. Ram, MD, FASH
Dallas, TX

Joseph Ravenell, MD, FASH
New York, NY

James A. Reiffel, MD
New York, NY

Bernardo Rodríguez-Iturbe, MD
Maracaibo, Venezuela

Clive Rosendorff, MD, PhD, FASH
Bronx, NY

Karen Rosene-Montella, MD
Providence, RI

Michael J. Ryan, PhD
Jackson, MS

Marc Sabatine, MD
Boston, MA

Joshua A. Samuels, MD
Houston, TX

Paul W. Sanders, MD
Birmingham, AL

Joseph I. Shapiro, MD
Toledo, OH

Domenic A. Sica, MD
Richmond, VA

Kanwar Singh, MD
Farmington, CT

Arjun D. Sinha, MD
Indianapolis, IN

Matthew Sorrentino, MD, FASH
Chicago, IL

James R. Sowers, MD, FASH
Columbia, MO

Francis G. Spinale, MD, PhD
Columbia, SC

Titte R. Srinivas, MD
Cleveland, OH

Jan A. Staessen, MD, PhD
Leuven, Belgium

Katie L. Stone, PhD
San Francisco, CA

Jennifer C. Sullivan, PhD
Augusta, GA

Sandra J. Talier, MD, FASH
Rochester, MN

Stephen C. Textor, MD, FASH
Rochester, MN

Rhian M. Touyz, MD, PhD
Glasgow, United Kingdom

Raymond R. Townsend, MD, FASH
Philadelphia, PA

Elaine M. Urbina, MD, MS, FASH
Cincinnati, OH

Ramachandran S. Vasan, MD
Framingham, MA

Ronald G. Victor, MD
Los Angeles, CA

Anthony J. Viera, MD, MPH
Chapel Hill, NC

Hongyu Wang, MD, PhD
Beijing, China

Micheal A. Weber, MD, FASH
New York, NY

Myron H. Weinberger, MD
Indianapolis, IN

Matthew R. Weir, MD, FASH
Baltimore, MD

Anton Wellstein, MD, PhD
Washington, DC

William B. White, MD, FASH
Farmington, CT

Christopher S. Wilcox, MD, PhD
Washington, DC

Bryan Williams, MD
Leicester, United Kingdom

Jeff D. Williamson, MD
Winston-Salem, NC

Jackson T. Wright, Jr., MD, PhD, FASH
Cleveland, Ohio

Steven A. Yarows, MD, FASH
Chelsea, MI

Yangang Zhang, MD
Taiyuan, China
2012 ASH Program, Saturday, May 19

Saturday, May 19, 2012: 7:30 AM – 3:00 PM

Hypertension Highlights 2012

7:30 AM  Breakfast
8:00 AM  Welcome
George L. Bakris, MD, FASH, Chicago, IL and William B. White, MD, FASH, Farmington, CT

8:10 AM – 10:10 AM

Part I: The Artery
Co-Chairs: Daniel Duprez, MD, PhD, FASH, Minneapolis, MN and Raymond R. Townsend, MD, FASH, Philadelphia, PA

8:10 AM  Modulation of Arterial Stiffness
Paul W. Sanders, MD, Birmingham, AL

8:40 AM  Central Blood Pressure from the Framingham Experience
Gary F. Mitchell, MD, Norwood, MA

9:10 AM  Hemodynamic Measurements to Guide Antihypertensive Therapy
Sandra J. Taler, MD, FASH, Rochester, MN

9:40 AM  Moderated Panel Discussion

10:10 AM  Break

10:30 AM – 12:30 PM

Part II: The Kidney
Co-Chairs: Rajiv Agarwal, MD, FASH, Indianapolis, IN and Aldo J. Peixoto, MD, FASH, West Haven, CT

10:30 AM  Blood Pressure Monitoring in Chronic Kidney Disease
Aldo J. Peixoto, MD, FASH

11:00 AM  Hypertension in Solid Organ Transplant Recipients
Titte R. Srinivas, MD, Cleveland, OH

11:30 AM  Erythrocyte Stimulating Agents, Blood Pressure and Cardiovascular Risk
Jeffrey S. Berns, MD, Philadelphia, PA

12:00 PM  Moderated Panel Discussion
12:30 PM  Lunch

1:15 PM – 3:00 PM

Part III: The Heart
Co-Chairs: Prakash C. Deedwania, MD, FASH, Fresno, CA and Richard B. Devereaux, MD, New York, NY

1:15 PM  Molecular Basis of Atrial Arrhythmias
Patrick T. Ellinor, MD, Boston, MA

1:45 PM  Atrial Arrhythmias—Pathogenesis and Treatment
James A. Reiffel, MD, New York, NY

2:15 PM  New Insights into Preserved Systolic Function Heart Failure
Prakash C. Deedwania, MD, FASH

3:05 PM – 3:45 PM

Thomas G. Pickering, MD, DPhil Memorial Lecture
Chair: William B. White, MD, FASH, Farmington, CT

Ambulatory Blood Pressure Measurement is Essential for the Management of Hypertension
Eoin O’Brien, MD, Dublin, Ireland

4:00 PM – 5:40 PM

New Paradigms in Hypertension Pathophysiology: Clinical Implications

Held in Partnership with the American Heart Association’s Council for High Blood Pressure Research (HBPR)

Chairs: Gregory D. Fink, PhD, East Lansing, MI and Rhian M. Touyz MD, PhD, Glasgow, United Kingdom

4:00 PM  Introduction
Rhian Touyz, MD, PhD

4:05 PM  RAS—Beyond Hypertension
Kenneth E. Bernstein, MD, Los Angeles, CA

4:45 PM  Mineralocorticoid Receptors, Vessels and Hypertension
Iris Z. Jaffe, MD, PhD, Boston, MA
2012 ASH Program, Saturday, May 19

5:05 PM  Autoimmune Origins of Hypertension  
Michael J. Ryan, PhD, Jackson, MS

5:25 PM  Conclusions  
Gregory D. Fink, PhD

4:00 PM – 5:30 PM  
Young Investigator-in-Training Abstract Competition

4:00 PM – 5:30 PM  
Strategies to Facilitate Blood Pressure Control  
Held in Partnership with the Preventive Cardiovascular Nurses Association (PCNA)

Co-Chairs: Nancy T. Artinian, PhD, RN, Detroit, MI and Nancy Houston Miller, RN, BSN, Palo Alto, CA

4:00 PM  Lifestyle Counseling for Blood Pressure Control in 10 Minutes or Less  
Nancy T. Artinian, PhD, RN

4:20 PM  The Need to Ask About Adherence  
Cheryl Dennison, PhD, RN, ANP, Baltimore, MD

4:40 PM  Motivational Interviewing: Negotiating for Behavior Change  
Lola Coke, PhD, ACNS-BS, Chicago, IL

5:00 PM  Care Coordination: The Medical Home  
Jane E. Nelson-Worel, MS, APNP, Madison, WI

4:00 PM – 5:40 PM  
ASH/The 4th American Society of Hypertension/China Social Worker’s Association Vascular Protection Committee Session on Early Vascular Disease Detection and Management: Experience from China

Co-Chairs: Suzanne Oparil, MD, FASH, Birmingham, AL and Hongyu Wang, MD, PhD, Beijing, China

4:00 PM  Early Vascular Disease Detection in Chinese Population  
Hongyu Wang, MD, PhD, Beijing, China

4:20 PM  Clinical Strategy in Treating Coronary Combined Carotid Artery Disease  
Jianfang Luo, MD, Guangzhou, China

4:40 PM  CT Application in Early Detection of Vascular Disease  
Aishi Liu, MD, Hohhot, China

5:00 PM  Endothelial Function and Erectile Dysfunction  
Yangang Zhang, MD, Taiyuan, China

5:20 PM  Smoking Effect on Vascular Function  
Tianhu Liu, MD, Chengdu, China

4:00 PM – 5:00 PM  
Pathobiology Debate  
Hypertension is Not a Cause of Chronic Kidney Disease

Moderator: Murray Epstein, MD, Miami, FL  
Protagonist: Jeffrey B. Kopp, MD, Bethesda, MD  
Antagonist: Anil K. Bidani, MD, FASH, Maywood, IL

4:00 PM – 5:30 PM  
Gender and Hypertension

Co-Chairs: Phyllis August, MD, MPH, New York, NY and David M. Pollock, PhD, Augusta, GA

4:00 PM  Gender Differences in Hypertension  
Jennifer C. Sullivan, PhD, Augusta, GA

4:30 PM  Mechanisms of Pre-eclampsia  
S. Ananth Karumanchi, MD, Boston, MA

5:00 PM  Impact of Gender on Drug Disposition and Blood Pressure Control  
Domenic A. Sica, MD, Richmond, VA

4:00 PM – 7:00 PM  
Hypertension Resource Pavilion Opens

5:45 PM – 6:45 PM  
Poster Viewing

5:45 PM – 7:00 PM  
Opening Reception
# 2012 ASH Program at a Glance

<table>
<thead>
<tr>
<th>Day - Date - Time</th>
<th>Pathobiology</th>
<th>Translational</th>
<th>Therapy</th>
<th>Special Sessions</th>
<th>Joint Sessions</th>
<th>Debates/How-To Sessions</th>
<th>Innovations Theater</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Saturday, May 19, 2012</strong></td>
<td></td>
<td></td>
<td></td>
<td>Hypertension Highlights: Full Day program dedicated to educating clinicians and scientists about some of the most interesting, controversial and evolving topics in the field.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:30 AM to 3:00 PM</td>
<td></td>
<td></td>
<td></td>
<td>Hypertension for the Primary Care Clinician 2012: Addresses commonplace questions that face clinicians in day to day care of patients with hypertension.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:05 PM to 3:45 PM</td>
<td></td>
<td></td>
<td></td>
<td>Thomas G. Pickering, MD, DPhil Memorial Lecture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00PM to 5:30 PM</td>
<td></td>
<td></td>
<td></td>
<td>Young Investigator-in-Training Abstract Competition</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:30 AM to 12:30 PM</td>
<td></td>
<td>Gender and Hypertension</td>
<td></td>
<td>Joint Session – American Heart Association’s Council for High Blood Pressure Research</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Saturday, May 19, 2012</strong></td>
<td></td>
<td></td>
<td></td>
<td>Pathobiology Debate – Hypertension is Not a Cause of Chronic Kidney Disease</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:45 PM to 7:00 PM</td>
<td></td>
<td></td>
<td></td>
<td>Joint Session – China Social Worker’s Association Vascular Protection Committee</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:45 PM to 7:00 PM</td>
<td></td>
<td></td>
<td></td>
<td>Opening Reception – Hypertension Resource Pavilion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sunday, May 20, 2012</strong></td>
<td></td>
<td></td>
<td></td>
<td>Hypertension for the Primary Care Clinician 2012: Addresses commonplace questions that face clinicians in day to day care of patients with hypertension.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6:30 AM to 8:00 AM</td>
<td></td>
<td></td>
<td></td>
<td>Hypertension Resource Pavilion Hours – 4:00 PM to 7:00 PM Poster Viewing – 5:45 PM to 6:45 PM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:30 AM to 12:30 PM</td>
<td></td>
<td></td>
<td></td>
<td>The Systolic Blood Pressure Intervention Trial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:45 AM to 11:30 AM</td>
<td></td>
<td>Renal Sympathetic Nerves Hypertension, and the Cardiovascular Disease</td>
<td></td>
<td>The Brain as the Target of Hypertension</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:45 AM to 12:45 PM</td>
<td></td>
<td>Renal Sympathetic Nerves Hypertension, and the Cardiovascular Disease</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00 PM to 3:30 PM</td>
<td></td>
<td>Renovascular Hypertension</td>
<td></td>
<td>Plenary Session 1: Novel Therapeutics in Cardiovascular Medicine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:45 PM to 5:30 PM</td>
<td></td>
<td>Renovascular Hypertension</td>
<td></td>
<td>Models for Improvement of Blood Pressure Control</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:45 PM to 6:45 PM</td>
<td></td>
<td>Renovascular Hypertension</td>
<td></td>
<td>High Tea and Poster Viewing in Pavilion</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Hypertension Highlights:**
- Full Day program dedicated to educating clinicians and scientists about some of the most interesting, controversial and evolving topics in the field.

**Hypertension for the Primary Care Clinician 2012:**
- Addresses commonplace questions that face clinicians in day to day care of patients with hypertension.

**Pathobiology Debate – Hypertension is Not a Cause of Chronic Kidney Disease:**
- Discussion on the role of pathobiology in understanding hypertension.

**Opening Reception – Hypertension Resource Pavilion:**
- Welcoming event for participants.
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Monday, May 21, 2012</strong></td>
<td>6:00 AM to 7:30 AM</td>
<td>Obesity and Hypertension, Cardiac Fibrosis, Peripheral Vascular Disease</td>
</tr>
<tr>
<td></td>
<td>10:30 AM to 12:00 PM</td>
<td>Mechanisms of Drug-Induced Hypertension, Renal and Adrenal Mechanisms in Hypertension, Hypertension and the Heart</td>
</tr>
<tr>
<td></td>
<td>12:15 PM to 1:15 PM</td>
<td>Plenary Session II: Awards Sessions</td>
</tr>
<tr>
<td></td>
<td>1:30 PM to 3:30 PM</td>
<td>Plenary Session II: Drugs Sessions</td>
</tr>
<tr>
<td></td>
<td>5:30 PM to 6:30 PM</td>
<td>High Tea and Poster Viewing in the Pavilion – 4:30 PM to 5:30 PM</td>
</tr>
<tr>
<td><strong>Tuesday, May 22, 2012</strong></td>
<td>7:45 AM to 9:15 AM</td>
<td>Late-Breaking Clinical Trials</td>
</tr>
<tr>
<td></td>
<td>9:15 AM to 9:55 AM</td>
<td>JNC 8</td>
</tr>
<tr>
<td></td>
<td>10:00 AM to 11:30 AM</td>
<td>Basic Renal Mechanisms of Hypertension, Hypertension in Pregnancy, Non-Drug Therapy for Hypertension, Joint Session – British Hypertension Society</td>
</tr>
</tbody>
</table>
American Society of Hypertension
2012 Annual Scientific Meeting and Exposition

2012 ASH Program, Sunday, May 20

Sunday, May 20, 2012: 7:30 AM – 12:30 PM

Hypertension for the Primary Care Clinician 2012

7:30 AM – 12:30 PM

7:30 AM Welcome, Introductions and Logistics
Jan N. Basile, MD, FASH, Charleston, SC and Domenic A. Sica, MD, Richmond, VA

7:40 AM – 8:30 AM

Theme I: The ASH Position Papers-Key Points

7:40 AM When and How to Use Home and Ambulatory BP Monitoring
William B. White, MD, FASH, Farmington, CT

7:50 AM Dietary Approaches to Lower Blood Pressure
Lawrence J. Appel, MD, MPH, FASH, Baltimore, MD

8:00 AM Adherence and Persistence with Taking Medication to Control Blood Pressure
Martha N. Hill, RN, PhD, Baltimore, MD

8:10 AM Combination Therapy in Hypertension
Alan H. Gradman, MD, FASH, Pittsburgh, PA

8:20 AM Hypertension in Pregnancy
Sandra J. Taler, MD, FASH, Rochester, MN

8:30 AM – 9:45 AM

Theme II: Secondary Causes of Hypertension: An Update

Co-Chairs: Michael J. Bloch, MD, FASH, Reno, NV and F. Wilford Germino, MD, FASH, Orland Park, IL

8:30 AM When to Consider Secondary Causes of Hypertension
Anthony J. Viera, MD, MPH, Chapel Hill, NC

8:50 AM Adrenal Causes of Secondary Hypertension-Pheochromocytoma and Aldosteronoma
Robert M. Carey, MD, Charlottesville, VA

9:10 AM Renovascular Hypertension
Stephen C. Textor, MD, FASH, Rochester, MN

9:20 AM Obstructive Sleep Apnea
R. Garret Cynar, MD, Dallas, TX

9:30 AM Panel Discussion
9:45 AM Break

10:00 AM – 10:50 AM

Theme III: Blood Pressure in the Extremes of Age: An Update

Co-Chairs: Jerry G. Back, MD, FASH, Ladson, SC and Louis Kuritzky, MD, Gainesville, FL

10:00 AM Update on Blood Pressure in Children and Adolescents
Joshua A. Samuels, MD, Houston, TX

10:20 AM Update on Blood Pressure in Older Persons
Stanley S. Franklin, MD, FASH, Los Angeles, CA

10:40 AM Panel Discussion

10:50 AM – 12:00 PM

Theme IV: Evidence-Based Goals/Examining Class Effect

Co-Chairs: Veita J. Bland, MD, FASH, Greensboro, NC and Joel Handler, MD, FASH, Anaheim, CA

10:50 AM What Should Be the Goal Blood Pressure in Special Populations with Hypertension? Diabetes, Chronic Kidney Disease, Coronary Artery Disease, Heart Failure
William C. Cushman, MD, FASH, Memphis, TN

11:20 AM Antihypertensive Drugs: Is there a Best/Worst in Each Class?
William J. Elliott, MD, PhD, FASH, Yakima, WA

11:50 AM – 12:30 PM

Theme V: Quality Improvement and Blood Pressure Control: The 5 Things You May Not Be Doing but Ought to Consider

Co-Chairs: Gbenga Ogedegbe, MD, MPH, MS, FASH, New York, NY and Steven A. Yarows, MD, FASH, Chelsea, MI

11:50 AM From a Physician’s Perspective
Brent M. Egan, MD, FASH, Charleston, SC

12:00 PM From a Nurse Practitioner’s Perspective
Nancy Houston Miller, RN, BSN, Palo Alto, CA

12:10 PM From a Pharmacist’s Perspective
Barry L. Carter, PharMD, FASH, Iowa City, IA

12:20 PM Audience Votes and Discussion
2012 ASH Program, Sunday, May 20

8:00 AM – 9:30 AM
ASH/Association of Research into Arterial Structure and Physiology (ARTERY) Joint Session

8:00 AM – 9:30 AM
The Systolic Blood Pressure Intervention Trial (SPRINT): Evidence Basis for Blood Pressure Targets
Co-Chairs: Robert A. Phillips, MD, PhD, FASH, Worcester, MA and Jackson T. Wright, MD, PhD, FASH, Cleveland, OH

8:00 AM  Rationale for Trial of Systolic Blood Pressure Goals, Including Individuals Over Age 75
Karen C. Johnson, MD, MPH, Memphis, TN

8:20 AM  Main Trial Design and Trial Status
Walter T. Ambrosius, PhD, Winston-Salem, NC

8:40 AM  SPRINT-MIND Rationale and Design
Jeff D. Williamson, MD, Winston-Salem, NC

9:00 AM  Justification for Chronic Kidney Disease Subgroup in SPRINT
Alfred K. Cheung, MD, Salt Lake City, UT

8:00 AM – 9:00 AM
Translational Debate
There Should be Regulatory Steps to Reduce Salt Intake to Lower the Burden of Cardiovascular Disease

Moderator: Frans H. Messerli, MD, FASH, New York NY
Protagonist: Graham MacGregor, MD, London, United Kingdom
Antagonist: Jan A. Staessen, MD, PhD, Leuven, Belgium

9:45 AM – 11:30 AM
Pathobiology Track Session
Diastolic Function of the Heart
Co-Chairs: Prakash C. Deedwania, MD, FASH, Fresno, CA and Bertram Pitt, MD, Ann Arbor, MI

9:45 AM  How Does the Vasculature Impact Myocardial Structure and Function?
David G. Harrison, MD, Nashville, TN

10:05 AM  Hypertensive Heart Disease Extracellular Matrix Effects
Francis G. Spinale, MD, PhD, Columbia, SC

10:25 AM  Cardiotonic Steroids and Cardiac Remodeling
Joseph I. Shapiro, MD, Toledo, OH

10:45 AM  Original Communications

10:30 AM – 12:55 PM and 3:30 PM – 6:45 PM
Hypertension Resource Pavilion Open

11:45 AM – 12:55 PM
Lunch

10:00 AM – 12:00 PM
Translational Track Session
Renal Sympathetic Nerves, Hypertension, and Cardiovascular Disease
Co-Chairs: George L. Bakris, MD, FASH, Chicago, IL and Gregory D. Fink, PhD, East Lansing, MI

9:45 AM  Sympathetic Nervous System and Cardiovascular Outcomes
Stevo Julius, MD, ScD, Ann Arbor, MI

10:05 AM  Role of Sympathetic Fibers on Renal Function
Gary V. Desir, MD, New Haven, CT

10:25 AM  Renal Denervation for Resistant Hypertension
Henry Krum, PhD, MBBS, Melbourne, Australia

10:45 AM  Original Communications
2012 ASH Program, Sunday, May 20

Therapy Track Session

The Brain as the Target of Hypertension
Co-Chairs: Costantino Iadecola, MD, New York, NY and C. Venkata S. Ram, MD, FASH, Dallas, TX
9:45 AM The Brain as the Target of Hypertension
Marilyn J. Cipolla, PhD, Burlington, VT
10:05 AM Effect of Hypertension on the Cerebral Circulation and Cognition
Philip B. Gorelick, MD, MPH, Grand Rapids, MI
10:25 AM Hypertension Management During Acute Stroke
Lewis B. Morgenstern, MD, Ann Arbor, MI
10:45 AM Original Communications

Plenary Session I: Novel Therapeutics in Cardiovascular Medicine
Co-Chairs: George L. Bakris, MD, FASH, Chicago, IL and William B. White, MD, FASH, Farmington, CT
1:00 PM President’s Address
George L. Bakris, MD, FASH
1:15 PM Keynote Lecture: Development of Anti-thrombotic Therapies in Cardiovascular Medicine
Richard C. Becker, MD, Durham, NC
2:00 PM Designer Natriuretic Peptides
John C. Burnett, Jr., MD, Rochester, MN
2:30 PM Vitamin D Sterols, Hypertension, and Renal Disease
Ravi I. Thadhani, MD, MPH, Boston, MA
3:00 PM Clinical Benefits of New Anti-thrombotic Therapies from a Trialist’s Perspective
Marc Sabatine, MD, Boston, MA

Pathobiology Track Session

Renovascular Hypertension
Co-Chairs: Stephen C. Textor, MD, FASH, Rochester, MN and Myron H. Weinberger, MD, Indianapolis, IN
3:45 PM Cellular Repair in Renovascular Hypertension
Lilach O. Lerman, MD, PhD, Rochester, MN
4:05 PM Targeting the Renal Microcirculation: Potential Therapeutic Applications of Angiogenic Cytokines in Renovascular Hypertension
Alejandro R. Chade, MD, Jackson, MS
4:25 PM Mechanisms in Human Renovascular Disease
Stephen C. Textor, MD, FASH
4:45 PM Why Have Intervention Trials Been Negative?
Lance D. Dworkin, MD, Providence, RI
5:05 PM Original Communications

Translational Track Session

Advanced Glycation End Products in Hypertension and Diabetes
Co-Chairs: Edward G. Lakatta, MD, Baltimore, MD and James R. Sowers, MD, FASH, Columbia, MO
3:45 PM Arterial Stiffness, Hypertension and Insulin Resistance
Elaine M. Urbina, MD, MS, FASH, Cincinnati, OH
Role of Advanced Glycation End-products in Hypertension:
4:05 PM Arterial Stiffening, Inflammation, Fibrosis and Calcification: Potential Novel Remedies
Edward G. Lakatta, MD
4:25 PM Human Studies
Marcus Baumann, MD, Munich, Germany
5:05 PM Original Communications
## 2012 ASH Program, Sunday, May 20 – Monday, May 21

### Models for Improvement of Blood Pressure Control
Co-Chairs: Brent M. Egan, MD, FASH, Charleston, SC and Keith C. Ferdinand, MD, FASH, Atlanta, GA

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:45 PM</td>
<td>Public Health Approaches</td>
<td>Keith C. Ferdinand, MD, FASH</td>
</tr>
<tr>
<td>4:05 PM</td>
<td>Community-Based Approaches</td>
<td>Joseph Ravenell, MD, FASH, New York, NY</td>
</tr>
<tr>
<td>4:25 PM</td>
<td>Electronic Tools and Health Aids</td>
<td>Wiley V. Chan, MD, Portland, OR</td>
</tr>
<tr>
<td>4:45 PM</td>
<td>Pharmacist Management</td>
<td>Barry L. Carter, PharMD, FASH, Iowa City, IA</td>
</tr>
</tbody>
</table>

### Pathobiology Track Session

#### Obesity and Hypertension
Co-Chairs: John E. Hall, PhD, Jackson, MS and F. Xavier Pi-Sunyer, MD, MPH, New York, NY

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>Brain Mechanisms of Obesity</td>
<td>Alexandre A. da Silva, PhD, Jackson, MS</td>
</tr>
<tr>
<td>8:20 AM</td>
<td>Uric Acid and Sugar</td>
<td>Richard J. Johnson, MD, Denver, CO</td>
</tr>
<tr>
<td>8:40 AM</td>
<td>Perivascular Fat</td>
<td>Jennifer S. Pollock, PhD, Augusta, GA</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Translational Implications of Fats on the Vasculature</td>
<td>Anthony M. Heagerty, MD, Manchester, United Kingdom</td>
</tr>
<tr>
<td>9:20 AM</td>
<td></td>
<td>Original Communications</td>
</tr>
</tbody>
</table>

### Cardiac Fibrosis
Co-Chairs: John D. Bisognano, MD, PhD, FASH, Rochester, NY and Bertram Pitt, MD, Ann Arbor, MI

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>Biomarkers of Cardiac Fibrosis</td>
<td>Javier Díez, MD, PhD, Pamplona, Spain</td>
</tr>
<tr>
<td>8:20 AM</td>
<td>Imaging of Cardiac Fibrosis</td>
<td>Joao A.C. Lima, MD, Baltimore, MD</td>
</tr>
<tr>
<td>8:40 AM</td>
<td>Effect of Cardiac Fibrosis on Arrhythmias</td>
<td>José Jalife, MD, Ann Arbor, MI</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Vascular Fibrosis and Arterial Stiffness</td>
<td>Daniel Duprez, MD, PhD, FASH, Minneapolis, MN</td>
</tr>
<tr>
<td>9:20 AM</td>
<td></td>
<td>Original Communications</td>
</tr>
</tbody>
</table>

### Mechanisms of Drug-Induced Hypertension
Held in Partnership with the Safety Pharmacology Society (SPS)

Co-Chairs: William J. Elliott, MD, PhD, FASH, Yakima, WA and George A. Mansoor, MD, Rahway, NJ

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 AM</td>
<td>Drug-induced Changes in Hemodynamics: Current Testing Paradigm, Incidence of Effects and Impact on Drug Development</td>
<td>Derek Leishman, BSc, PhD, Indianapolis, IN</td>
</tr>
</tbody>
</table>

### Poster Viewing
5:45 PM – 6:45 PM
2012 ASH Program, Monday, May 21

10:50 AM Anti-angiogenic Drugs
Anton Wellstein, MD, PhD, Washington DC

11:10 AM Immunosuppressive Agents
Ronald G. Victor, MD, Los Angeles, CA

11:30 AM Anti-obesity Drugs
John E. Hall, PhD, Jackson, MS

11:50 AM Central Nervous System Drugs
William J. Elliott, MD, PhD, FASH

**Translational Track Session**

Renal and Adrenal Mechanisms in Hypertension
Co-Chairs: David A. Calhoun, MD, Birmingham, AL and Matthew R. Weir, MD, FASH, Baltimore, MD

10:30 AM Assessment for Volume Excess in Chronic Kidney Disease
Arjun D. Sinha, MD, Indianapolis, IN

10:50 AM Sodium, Potassium and Arterial Compliance
Paul W. Sanders, MD, Birmingham, AL

11:10 AM Mechanisms of Mineralocorticoid Excess
Richard P. Lifton, MD, PhD, New Haven, CT

11:30 AM Sympathetic Nervous System and Adrenergic Excess
Debbie L. Cohen, MD, Philadelphia, PA

**Therapy Track Session**

Hypertension and the Heart
Co-Chairs: Peter R. Kowey, MD, Wynnewood, PA and Vasilios Papademetriou, MD, FASH, Washington, DC

10:30 AM Management of Hypertension in Patients with Coronary Disease
Clive Rosendorff, MD, PhD, FASH, Bronx, NY

10:50 AM Managing Hypertension in Patients with Valvular Heart Disease
Jeffrey S. Borer, MD, New York, NY

11:10 AM Management of Arrhythmias and Hypertension
Peter R. Kowey, MD, Wynnewood, PA

11:30 AM Original Communications

---

10:00 AM – 1:30 PM and 4:00 PM – 6:30 PM

**Hypertension Resource Pavilion Open**

12:15 PM – 1:15 PM

Lunch

1:30 PM – 3:30 PM

**Plenary Session II**
Co-Chairs: George L. Bakris, MD, FASH, Chicago, IL and Norman K. Hollenberg, MD, PhD, Boston, MA

1:30 PM Distinguished Scientist Award Lecture
2:00 PM Young Scholar Award Lecture
2:20 PM Marvin Moser Clinical Hypertension Award Lecture
2:45 PM Announcement of Young Investigator-in-Training Abstract Competition Winners

3:45 PM – 5:15 PM

**ASH/European Society of Hypertension (ESH) Joint Session**

3:45 PM – 5:15 PM

Interventions to Improve Hypertension Control in African Americans: Randomized Controlled Trial Results and Experience from Diverse Practice Settings in the Southeast U.S.

Held in Partnership with the International Society on Hypertension in Blacks (ISHIB)

Chairs: Paula T. Einhorn, MD, MS, Bethesda, MD and Keith C. Ferdinand, MD, FASH, Atlanta, GA

3:45 PM Overview and Introductions
Paula T. Einhorn, MD, MS and Keith C. Ferdinand, MD, FASH
2012 ASH Program, Monday, May 21 – Tuesday, May 22

3:50 PM  Counseling African Americans to Control Hypertension (CAATCH) Trial: A Multicomponent, Multi-level Intervention in 30 Community Health Care Centers
Gbenga Ogedegbe, MD, MPH, MS, FASH, New York, NY

4:05 PM  Does Reducing Physician Uncertainty Improve Hypertension Control: A Diffusion of Information Theory-based Intervention Using Uncertainty Reduction Tools
David J. Hyman, MD, MPH, Houston, TX

4:20 PM  Questions and Discussion

4:35 PM  ISHIB Consensus Statement, Cardiovascular Health Disparities and Clinical Practice: A view from the Outpatient Quality Improvement Network (OQUIN)
Brent M. Egan, MD, FASH, Charleston, SC

4:45 PM  Challenges and Opportunities in Optimizing Cardiovascular Health for Medically Underserved Patients in Private Practice
Veita J. Bland, MD, FASH, Greensboro, NC

5:00 PM  Questions and Discussion

4:15 PM – 5:15 PM

Concurrent Debates

Debate 1: The Evidence Supports a Systolic Target of 140 mmHg
Moderator: Suzanne Oparil, MD, FASH, Birmingham, AL
Protagonist: William C. Cushman, MD, FASH, Memphis, TN
Antagonist: Henry R. Black, MD, FASH, New York, NY

Debate 2: Blood Pressure in Hemodialysis Patients Should be Aggressively Lowered
Moderator: Barry J. Materson, MD, MBA, FASH, Miami, FL
Protagonist: Rajiv Agarwal, MD, FASH, Indianapolis, IN
Antagonist: Kamyar Kalantar-Zadeh, MD, MPH, Torrance, CA

Debate 3: Biomarkers Should be Used in Screening Patients with Hypertension
Moderator: Thomas D. Giles, MD, FASH, New Orleans, LA
Protagonist: Domenic A. Sica, MD, Richmond, VA
Antagonist: Ramachandran S. Vasan, MD, Framingham, MA

5:30 PM – 6:30 PM

How to Sessions

How to Use Home and Office Blood Pressure Monitoring in Clinical Practice
Nancy Houston Miller, RN, BSN, Palo Alto, CA

How to Evaluate and Manage Sexual Dysfunction
Michael N. Doumas, MD, Thessaloniki, Greece

How to Assess and Manage Orthostatic Hypotension
Henry R. Black, MD, FASH, New York, NY

How to Assess and Manage Hypertension During Pregnancy
Karen Rosene-Montella, MD, Providence, RI

Tuesday, May 22, 2012: 7:45 AM – 9:15 AM

Late-Breaking Clinical Trials
Co-Chairs: George L. Bakris, MD, FASH, Chicago, IL and William B. White, MD, FASH, Farmington, CT

9:15 AM – 9:55 AM

JNC 8
Suzanne Oparil, MD, FASH, Birmingham, AL
2012 ASH Program, Tuesday, May 22

10:00 AM – 11:30 AM

Pathobiology Track Session

Basic Renal Mechanisms of Hypertension
Co-Chairs: Leopoldo Raij, MD, FASH, Miami, FL and Christopher S. Wilcox, MD, PhD, Washington, DC
10:00 AM Microvascular Injury
David P. Basile, PhD, Indianapolis, IN
10:20 AM Intrarenal Inflammation
Bernardo Rodriguez-Iturbe, MD, Maracaibo, Venezuela
10:40 AM Autoregulation, Hypertension and CKD
Christopher S. Wilcox, MD, PhD
11:00 AM Intrarenal Angiotensin System
L. Gabriel Navar, PhD, New Orleans, LA

Translational Track Session

Hypertension in Pregnancy
Co-Chairs: Phyllis August, MD, MPH, New York, NY and Marshall Lindheimer, MD, Chicago, IL
10:00 AM Pathophysiology of Hypertension During Pregnancy
S. Ananth Karumanchi, MD, Boston, MA
10:30 AM Clinical Management of Pre-eclampsia
Phyllis August, MD, MPH
11:00 AM Long-term Cardiovascular Outcomes Following Pregnancy Hypertension
Vesna D. Garovic, MD, Rochester, MN

Therapy Track Session

Non-Drug Therapy for Hypertension
Co-Chairs: Michael Gutkin, MD, Livingston, NJ and Norman M. Kaplan, MD, Dallas, TX
10:00 AM Herbal Medications and Remedies
Matthew Sorrentino, MD, FASH, Chicago, IL
10:20 AM Mind-body Breathing
Suzanne M. Bertisch, MD, Boston, MA
10:40 AM Exercise Training
Martha Gulati, MD, MS, Chicago, IL
11:00 AM Non-drug Therapy for Hypertension
Katie L. Stone, PhD, San Francisco, CA

Contrasts and Similarities in British and US Guidelines in the Management of Hypertension
Held in Partnership with the British Hypertension Society (BHS)
Co-Chairs: Anthony M. Heagerty, MD, Manchester, United Kingdom and Michael A. Weber, MD, FASH, New York, NY
10:00 AM UK Perspective: NICE
Bryan Williams, MD, Leicester, United Kingdom
10:30 AM US Perspective: JNC 8
Sandra J. Taler, MD, FASH, Rochester, MN
11:00 AM Panel Discussion

11:30 AM – 12:30 PM

American Society of Hypertension Annual Membership Meeting
# Advance Registration Form

*Please type or print legibly and complete ALL information requested.

## Registrant Information

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Middle Initial</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Affiliation**

**Address**

<table>
<thead>
<tr>
<th>City</th>
<th>State/Province</th>
<th>Postal Code</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Telephone Number**  **Fax Number**

Email Address (please write very legibly)

Membership ID#

*Please Indicate (required field):*

- [ ] Physician Specialty
  - [ ] Cardiology
  - [ ] Endocrinology
  - [ ] Lipidology
  - [ ] Nephrology
  - [ ] Family Practice
  - [ ] Internal Medicine
  - [ ] Pediatrics
  - [ ] Other: __________________________

- [ ] Nurse/Nurse Practitioner
- [ ] Pharmacist
- [ ] Physician Assistant
- [ ] Other: __________________________

- [ ] Check here if you have any special needs or requirements – we will contact you.

## Meeting Registration:

*(Please check one option below and circle appropriate fee)*

### Hypertension Highlights 2012

- **On or Before April 4, 2012**
  - ASH Member: $150
  - Non-Member: $200
- **After April 4, 2012**
  - ASH Member: $175
  - Non-Member: $225

*Saturday, May 19 only – Fee includes admission to Hypertension Highlights, Hypertension Resource Pavilion, Innovations Theater, Poster Presentations and Social Events*

### Full Meeting Registration

- **On or Before April 4, 2012**
  - ASH Member: $550
  - Non-Member: $795
- **After April 4, 2012**
  - ASH Member: $650
  - Non-Member: $895

*Saturday, May 19 – Tuesday, May 22 – Full Meeting Registration includes admission to Hypertension Highlights, Hypertension Resource Pavilion, Plenary Sessions, Scientific Sessions, Meet the Professor Sessions, Debates, Poster Presentations, Innovations Theater and all ASH Social Events*

### Hypertension for the Primary Care Clinician

- **On or Before April 4, 2012**
  - ASH Member: $175
  - Non-Member: $275
- **After April 4, 2012**
  - ASH Member: $200
  - Non-Member: $300

*Sunday, May 20 – Fee only includes admission to Hypertension for the Primary Care Clinician Curriculum, Plenary Sessions, Scientific Sessions, Hypertension Research Pavilion and Innovations Theater*

## Payment Computations

<table>
<thead>
<tr>
<th>Registration Fee:</th>
<th>$ _______________</th>
</tr>
</thead>
<tbody>
<tr>
<td>VISA</td>
<td>[ ]</td>
</tr>
<tr>
<td>MasterCard</td>
<td>[ ]</td>
</tr>
<tr>
<td>American Express</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

Cardholder's Name

Exp. Date

Credit Card Number

Card Verification Code

Cardholder's Signature

---

**Payment Information:** NO CASH OR BANK TRANSFERS. Registration may be paid with VISA, MasterCard, American Express, check, or money order. Checks and money orders must be drawn on American banks and in U.S. Dollars.

Make check payable to:

Mail to:

Questions? Call or email:

Operators available from 9:00 AM to 6:00 PM EST)

American Society of Hypertension, Inc.  
ASH 2012 Registration,  
779 East Chapman Road, Oviedo, FL 32765  
US & Canada: 800-292-8130  
International Registrants:  
407-971-4480, Fax: 407-366-4138  
ASH2012reg@regmaster.com  
(Questions only; For online registration visit www.ash-us.org)
ASH Hypertension Community Outreach

In 2012, ASH will celebrate its fifth year of providing Hypertension Community Outreach services to communities in the US and abroad. Our outstanding accomplishments in the past four years are many and include the following:

• We have screened over 3,050 people with the breakdown as follows:
  — New Orleans (2008) 725
  — San Francisco (2009) 503
  — New York (2010) 739
  — New York (2011) 860
  — Montserrat (2011) 225+

• We produced four Hypertension Community Outreach site videos, four patient education videos, one public service announcement and one patient information pamphlet, available both in English and Spanish.
• We provided Grand Rounds for ten Hospitals and visited twenty clinics for in-service training.
• We have increased the number of Community Partners to nineteen
• We participated in the National Campaign Launch of “Pair-Up” with the American Kidney Fund

The 2011 Hypertension Community Outreach Program reached new boundaries and for the first time, extended past the US borders to the Island of Montserrat – for “Blood Pressure without Borders”.

Visit the blog, www.ashoutreach.blogspot.com to read all about the trip. The last entry describes the “Staggering Initial Findings.”

Visit the ASH website www.ash-us.org – Patients menu - to read about the Patient Videos ASH created in 2011.
Community Partners

ASH is grateful for the support of their Community Partners!!

AMERICAN KIDNEY FUND
ASSOCIATION OF BLACK CARDIOLOGISTS, SPIRIT OF THE HEART
AVMG, INC.
BOOMER ESIASON FOUNDATION
DENNY MOE’S SUPERSTAR BARBERSHOP
FOREST PHARMACEUTICALS, INC.
FOUNDATION OF NATIONAL LIPID ASSOCIATION
HILTON NY
HOMEDICS, INC.
METROPOLITAN EXPOSITION, INC.
MR CHAMMPS AT ST. JOSEPH’S REGIONAL MEDICAL CENTER
NOVARTIS PHARMACEUTICALS CORPORATION
OMRON HEALTHCARE, INC.
PEPSICO, INC.
ROAD RUNNERS OF NEW YORK
SOCIETY FOR CARDIOVASCULAR ANGIOGRAPHY AND INTERVENTIONS
ST. JOHN’S UNIVERSITY SCHOOL OF PHARMACY
THE INSTITUTE FOR HEALTH EQUITY AT NASSAU UNIVERSITY MEDICAL CENTER
TOURO MEDICAL SCHOOL

For Partnership Opportunities please contact
Gilda Caputo-Hansen, gcaputo@ash-us.org
ASH Membership Application

Please type or print legibly and complete ALL information requested.

☐ New Member  ☐ Renewing Member  Date Submitted: __________  Promotion Code: __________

1. Name and principal mailing address:

<table>
<thead>
<tr>
<th>Last (Family) Name</th>
<th>First Name</th>
<th>Middle Initial</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City</th>
<th>State/Province</th>
<th>Country</th>
<th>Postal Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Telephone Number</th>
<th>Facsimile</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Email Address (please write very legibly)

2. Specialty (circle one): internal medicine, primary care, cardiology, nephrology, endocrinology, other:

______________________________________________________________________________________________________________________

3. Practice Setting (circle all that apply): private practice, hospital staff, research, academia, administration, industry, other:

______________________________________________________________________________________________________________________

4. Membership Categories:

☐ Regular Member – Domestic (U.S. Residents): .......................................................... $ 200.00

☐ Optional – ASH Chapter Membership: .......................................................... $ 25.00

For USA Residents only, see next page for the current ASH Chapters and fee schedules.

Specify Chapter: ____________________________

☐ Regular Member – International

☐ Without Print Subscriptions to Society Journals: .......................................................... $ 200.00

☐ With Print Subscriptions to Society Journals: .......................................................... $ 230.00

☐ Member-in Training (Fellows, Residents, Medical Student, Graduate Students): .................. $ 75.00

Must submit letter from institution confirming status with application.

Chapter membership is Complimentary for Members-in-Training (where applicable)

☐ Optional – ASH Foundation Donation (suggested amount): .......................................................... $ 25.00

Based on fee schedule above, please indicate total payment included ........................................ $ _____

Payment (no cash or bank transfers) may be made with American Express, VISA, MasterCard, check or money order. Checks or money orders (drawn on American banks and in U.S. dollars) are payable to: American Society of Hypertension, Inc. (ASH). Mail this completed form and payment to American Society of Hypertension Inc, 148 Madison Avenue, 5th Floor, New York, NY 10016; or you may fax your form if you are paying by credit card to: 212-696-0684. For membership inquiries, call toll-free 866-696-9099 (U.S. residents only) or 212-696-9099 (International). Membership Year is on an anniversary basis and will expire 12 months from the month you join the Society.

☐ American Express  ☐ VISA  ☐ MasterCard  ☐ Check (Must include applicant’s LAST Name or ID#)

Cardholder’s Name  Credit Card Number  Exp. Date

Cardholder’s Telephone Number  Cardholder’s Signature
Current ASH Chapters and Dues Schedule:

ASH Regional Chapter Dues: $25.00

- Carolinas, Florida and Georgia Chapter (Southern Florida, Georgia, North Carolina, South Carolina)
- Delaware Valley Chapter (Delaware, Pennsylvania, & Southern New Jersey)
- Eastern Regional Chapter (Connecticut, Northern New Jersey, New York)
- Gulf Central Regional Chapter (Alabama, Florida [Panhandle], Louisiana, Mississippi)
- Mid-Atlantic Regional Chapter (Maryland, Virginia, Washington, DC)
- Texas Chapter

*Individuals can apply for membership online at www.ash-us.org*
Hilton New York  
Saturday, May 19, 2012 – Tuesday, May 22, 2012

**ASH Corporate Members**

Boehringer Ingelheim Pharmaceuticals, Inc.  
Daiichi Sankyo, Inc.  
Forest Laboratories, Inc.  
Medtronic, Inc.  
Merck & Co., Inc.  
Novartis Pharmaceuticals Corporation  
Takeda Pharmaceuticals North America, Inc.

**Future ASH Annual Scientific Meeting Dates:**

Wednesday, May 15, 2013 – Saturday, May 18, 2013  
San Francisco Marriott  
Saturday, May 17, 2014 – Tuesday, May 20, 2014  
Hilton New York  
Saturday, May 16, 2015 – Tuesday, May 19, 2015  
Hilton New York  
Saturday, May 13, 2016 – Tuesday, May 17, 2016  
Hilton New York