

Research Initiatives Conference in Vascular Disease

---

2002 Lifeline Foundation  
Research Initiatives in Vascular Disease Conference

April 18–19, 2002  
Hyatt Regency Bethesda, Bethesda, Maryland

---

**FROM BENCH TO CLINICAL  
PRACTICE — TRANSLATIONAL  
RESEARCH IN VASCULAR DISEASE**

**PROGRAM**

**THURSDAY, APRIL 18, 2002**

**6:30 AM** CONTINENTAL BREAKFAST/REGISTRATION

**7:30 am** **Introductory Remarks**

K. Craig Kent, M.D.

**7:35 am** **Lifeline Foundation**

John A. Mannick, M.D.

**7:40 am** **NIH and the Vascular Surgeon**

Beth Schucker

**8:05 am** **Keynote Speaker:**

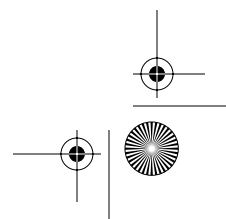
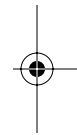
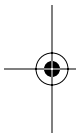
A Lifelong Struggle for NIH Funding—Pitfalls, Pratfalls & Progress

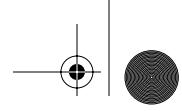
John A. Mannick, M.D.

**8:25 am** **The William J. von Liebig Award Winners**

Keith Ozaki, M.D.

Raj Sakar, M.D.





April 18–19, 2002 • Hyatt Regency Hotel, Bethesda, Maryland

8:45 am **SESSION I: DESIGNING THE IDEAL VASCULAR PROSTHESIS**

Moderators: Anton N. Sidawy, M.D. & George Sopko, M.D.

8:45 **Stent Design and Host Interaction**

Julio Palmaz, M.D.

9:05 **Drug Eluting Stents**

John Laird, M.D.

9:25 **Brachytherapy Considerations for Peripheral Interventions**

Andrew E. Ajani, M.D.

9:45 **Vascular Grafts—From Clinical Practice to Bench**

Howard P. Greisler, M.D.

10:05 AM **PANEL DISCUSSION**

10:20 AM **COFFEE BREAK**

10:40 AM **ABSTRACT SESSION #1**

Moderator: Daniel J. Reddy, M.D.

**R1 Does Ischemic Preconditioning Reduce Spinal Cord Injury Due To Descending Thoracic Aortic Occlusion?**

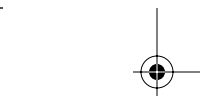
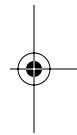
Ioannis K. Toumpoulis, George E. Drossos, Vassiliki D. Malamou-Mitsi, Lina S. Pappa, Demosthenes G. Katritsis, Constantine E. Anagnostopoulos  
*St. Luke's Roosevelt Hospital Center at Columbia University, New York, New York*

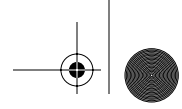
**R2 Profile Of Cytokine Gene Expression In Ischemic Mouse Hindlimb**

James Andrew Bonheur, Hassan Albadawi, George Mackey Patton, Michael Thomas Watkins  
*VA Boston Healthcare System, Boston University School of Medicine, West Roxbury, Massachusetts*

**R3 Overexpression Of Von Willebrand Factor Is An Independent Risk Factor For The Pathogenesis Of Intimal Hyperplasia: Preliminary Studies**

Theresa Impeduglia, Feng Qin, Pamela Schaffer, Herbert Dardik  
*Englewood Hospital and Medical Center, Englewood, New Jersey*





Research Initiatives Conference in Vascular Disease

---

**R4 Rapamycin Induces VSMC Differentiation Through Activation Of Akt**

Kathleen A. Martin, Akihiro Takahashi, Kenneth Walsh, Richard J. Powell  
*Dartmouth Medical School, Saint Elizabeth Medical Center, Dartmouth Hitchcock Medical Center, Tufts Medical School, Lebanon, New Hampshire*

*11:30 am* **SESSION II: TRANSLATIONAL RESEARCH AND ISCHEMIA REPERFUSION INJURY**

*Moderators: Michael T. Watkins, M.D. & Judith Massicot-Fisher, Ph.D.*

**11:30 In Vitro and In Vivo Models of Ischemia-Reperfusion Injury**

Michael T. Watkins, M.D.

**11:50 Effect of C5 Complement Inhibition on Cardiovascular Outcomes and Mortality Following Cardiopulmonary Bypass**

Stanton K. Shernan, M.D.

**12:10 pH-Guided Myocardial Management: A New Product of Translational Research**

Shukri F. Khuri, M.D.

**12:30 Oxidant Signalling in the Microvasculature**

Gregory B. Bulkley, M.D.

**12:50 PM PANEL DISCUSSION**

**1:05 PM LUNCH**

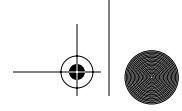
**2:15 PM ABSTRACT SESSION #2**

*Moderator: G. Patrick Clagett, M.D.*

**R5 Adenoviral Delivery Of CYP2J2 Inhibits Smooth Muscle Cell (SMC) Migration And Leukocyte Adhesion To Cytokine-Stimulated Endothelial Cells (EC)**

Joaquim Havens, Jianxin Sun, Vinod Narra, Xin Xin Sui, Darryl C. Zeldin, James Liao, Michael S. Conte  
*Brigham and Womens Hospital and Harvard Medical School, National Institute of Environmental Sciences, Boston, Massachusetts*





April 18–19, 2002 • Hyatt Regency Hotel, Bethesda, Maryland

**R6 Sustained Inhibition Of Experimental Intimal Hyperplasia Using A Genetically Modified Herpes Simplex Virus**

Michael A. Curi, Christopher L. Skelly, Shari L. Meyerson, David H. Woo, Sunil J. Advani, Seymor Glagov, Bernard Roizman, Ralph R. Weichselbaum, Lewis B. Schwartz

*University of Chicago, Chicago, Illinois*



**R7 Recombinant Human Thrombomodulin Inhibits Arterial Neointimal Hyperplasia Following Balloon Injury**

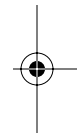
Michael J. Singh, Jian-ming Li, Mazen Itani, Mitchell D. Cahn, Gregory Hendricks, Michael J. Rohrer, Bruce S. Cutler, Peter R. Nelson

*University of Massachusetts Medical School, Worcester, Massachusetts*

**R8 Regulation Of Tissue Factor Expression By Nitric Oxide**

Melina R. Kibbe, Christopher Johnnides, Imre Kovetsdi, Alena Lizonova, Timothy R. Billiar, Edith Tzeng, Satish C. Muluk

*University of Pittsburgh, Genvec Inc, Pittsburgh, Pennsylvania*



*3:05 pm* **SESSION III: MANAGEMENT OF INTIMAL HYPERPLASIA WITH GENE THERAPY**

*Moderators: Michael A. Golden, M.D. & Eser Tolunay, Ph.D.*

**3:05 The Human Response to Arterial Injury**

Alexander Clowes, M.D.

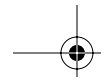
**3:25 iNOS Gene Therapy for Vascular Injury**

Edith Tzeng, Ph.D.

**3:45 Inhibition of Vein Graft Intimal Hyperplasia with E2F Decoy: Gene Therapy**

Michael Conte, M.D.





---

Research Initiatives Conference in Vascular Disease

---

**4:05 PM PANEL DISCUSSION**

**4:20PM COFFEE BREAK**

**4:30 PM RESIDENTS' SESSION**

*Moderator: Bauer E. Sumpio, M.D.*

**"HOW DO I BECOME AN ACADEMIC VASCULAR SURGEON?"**

**WHAT KIND OF RESEARCH?**

Basic—Colleen Brophy, M.D.

Clinical—R. Clement Darling, M.D.

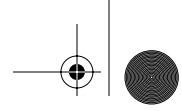
Clinical Trials—Samuel R. Money, M.D.

Funding Opportunities—Michael A. Golden, M.D.

Time Management—Julie Ann Frieschlag, M.D.

**6:30 PM WELCOME RECEPTION**





April 18–19, 2002 • Hyatt Regency Hotel, Bethesda, Maryland

## FRIDAY, APRIL 19, 2002

**6:00 AM** CONTINENTAL BREAKFAST/REGISTRATION

*7:00 am* **SESSION IV: PATHOPHYSIOLOGY AND  
MANAGEMENT OF ABDOMINAL AORTIC ANEURYSMS**

*Moderators: Robert W. Thompson, M.D. & Ronald L. Dalman, M.D.*

**7:00** INTRODUCTION

**7:05** **Pathophysiologic Mechanisms of Aneurysmal  
Degeneration: Chronic Inflammation and  
Matrix-Degrading Proteinases**

William H. Pearce, M.D.

**7:20** **Pathophysiologic Mechanisms of Aneurysmal  
Degeneration: Hemodynamics, Biomechanical  
Stress and Diminished Tensile Strength**

David A. Vorp, Ph.D.

**7:35** **Early Surgery Versus Imaging Surveillance for  
Small AAAs: Results and Implications of the  
ADAM Trial**

Frank Lederle, M.D.

**7:50** **Medical Treatment for Small AAAs: Beta Blockers**

Andreas Laupacis, M.D., MSc

**8:05** **Medical Treatment for Small AAAs: Doxycycline  
and MMP Inhibition**

B. Timothy Baxter, M.D.

**8:20 AM** PANEL DISCUSSION

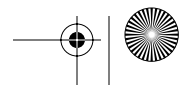
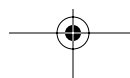
**8:35 AM** ABSTRACT SESSION #3

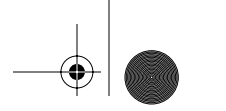
*Moderator: John J. Ricotta, M.D.*

**R9** **Prevention Of Experimental Aortic Aneurysms:  
Selective Inhibition Of Inducible Nitric Oxide  
Synthase Is Superior To Cyclooxygenase  
Inhibition**

Peter J. Armstrong, David P. Franklin, David J. Carey, James R. Elmore

*Geisinger Medical Center, Sigfried and Janet Weis Center for Research,  
Danville, Pennsylvania*





Research Initiatives Conference in Vascular Disease

---

**R10 Chlamydia Pneumoniae Antigens Facilitate Experimental Aortic Dilatation: Reversal By Azithromycin**

Jeymi Tambiah, Roger Malcolm Greenhalgh, Janet Tinka Powell  
*Imperial College, London, England, United Kingdom*

**R11 A Nonintrinsic Regional Basis For Increased Infrarenal Aortic MMP-9 Expression And Activity**

Gorav Ailawadi, Brian S. Knipp, Guanyi Lu, Karen J. Roelofs, John W. Ford, Kevin K. Hannawa, Michael P. Deogracias, Keith Bishop, Peter K. Henke, James C. Stanley, Gilbert R. Upchurch, Jr.  
*University of Michigan, Ann Arbor, Michigan*

**R12 Recombinant Matrix Metalloproteinase-9 Induces Aortic Aneurysm In A Murine Model**

Nicholas D.Garcia, Mark K. Eskandari, Teng-Leong Chew, Amy Flores, Vera Shively, Lin He, Jaime Borensztajn, Rex Chisholm, William H. Pearce  
*Northwestern University, Chicago, Illinois*

**9:25 AM COFFEE BREAK**

*9:45 am* **SESSION V: SOLVING THE PROBLEMS WITH ENDOGRAFTS FOR AAA REPAIR**

*Moderator: Frank J. Veith, M.D. & John Watson, Ph.D.*

**9:45 Definition of Problems: With Patients, With Grafts**

Frank J. Veith, M.D.

**10:00 Basic Science Issues with Stent and Graft Components**

Julio C. Palmaz, M.D., Ph.D.

**10:15 Engineering the Ideal Endovascular Graft for AAA Repair**

Roy K. Greenberg, M.D.

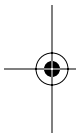
**10:30 Are Branched Endografts Practical?**

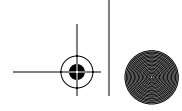
Timothy A. M. Chuter, M.D.

**10:45 Physiology of Type II Endoleaks and Their Treatment**

Richard A. Baum, M.D.

**11:00 AM PANEL DISCUSSION**





**April 18–19, 2002 • Hyatt Regency Hotel, Bethesda, Maryland**

---

*11:15 am*    **SESSION VI: THERAPEUTIC ANGIOGENESIS FOR LIMB ISCHEMIA**

*Moderator: Louis M. Messina, M.D. & Stephen Goldman, Ph.D.*

**11:15**    **eNos Overexpression Induces Arteriogenesis and Normalizes Blood Flow in Rat Model of Critical Limb Ischemia**

Louis M. Messina, M.D.

**11:35**    **Endothelial Progenitor Cells for Therapeutic Neovascularization**

Atsuhiko Kawamoto, M.D.

**11:55**    **An Overview of Angiogenesis**

Eric Wahlberg, M.D.

**12:15**    **Gene and Cell Therapy for Ischemic Disease**

Douglas Losordo, M.D.

**12:35 PM**    **PANEL DISCUSSION**

**12:50 PM**    **LUNCH**

*2:00 pm*    **SESSION VII: TRANSLATIONAL RESEARCH: THE NUTS & BOLTS**

*Moderators: Colleen M. Brophy, M.D. & Frank W. LoGerfo, M.D.*

**2:00**    **Financing and Strategic Options for Biomedical Technology Start-Ups**

Jonathan Gertler, M.D.

**2:20**    **Protecting Your Intellectual Property**

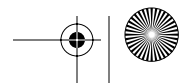
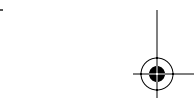
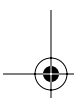
Kittie Murray, Ph.D., J.D.

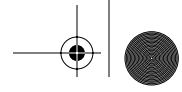
**2:40**    **Small Business Funding Opportu“NIH”ties at the National Institutes of Health**

JoAnne Goodnight

**3:00 PM**    **PANEL DISCUSSION**

**3:35 PM**    **COFFEE BREAK**





---

Research Initiatives Conference in Vascular Disease

---

3:55 pm *SESSION VIII: "WRAP-UP"*

*Moderator: K. Craig Kent, M.D.*

**3:55 Translational Research in Venous Disease**

Thomas W. Wakefield, M.D.

**4:15 Role of Basic Laboratory and Clinical Research in the Vascular Fellowship**

Peter Henke, M.D.

**4:35 PM PANEL DISCUSSION**

**5:00 PM ADJOURN**

