

David J. Pinsky, MD

J. Griswold Ruth MD & Margery Hopkins Ruth Professor of Internal Medicine
Professor of Molecular and Integrative Physiology
Chief, Cardiovascular Medicine
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Education and Training

- 9/1974 – 6/1977 Sylvania Northview High School (Sylvania, OH), Class Valedictorian
9/1977 – 6/1981 The University of Toledo (Toledo, OH), B.S. in biology, *summa cum laude*
9/1981 – 6/1985 The Ohio State University College of Medicine (Columbus, OH), M.D., *cum laude* (New York State Physician's License # 168178-1)

Postdoctoral Training

- 07/85 - 06/88 Internal Medicine Residency, The Mount Sinai Hospital (New York, NY)
07/88 - 06/89 Heart Failure Research Fellowship, The Mount Sinai Hospital (New York, NY)
07/89 - 06/92 Clinical Cardiology Fellowship, Columbia-Presbyterian Medical Center, (New York, NY)
07/92 - 06/93 Postdoctoral Research Fellow in Vascular Biology, Columbia University, (New York, NY)
07/92 - 06/93 Postdoctoral Fellow in Nuclear Cardiology, Columbia-Presbyterian Medical Center (New York, NY)

Senior Postdoctoral Training

None

Military Service

None

Certification and Licensure

National Board of Medical Examiners (March 1986)
Diplomate, American Board of Internal Medicine (September, 1988)
Diplomate, American Board of Cardiovascular Disease (November, 1991)(renewed 2002)
Diplomate, Certification Board of Nuclear Cardiology (October, 1996)
Physician's License, New York (January, 2004)
Physician's License, Michigan (January, 2007)

Academic, Administrative, and Clinical Appointments

Academic Appointments

07/92 - 06/93 Assistant in Clinical Medicine, Columbia University College of Physicians and Surgeons (New York, NY)
07/93 - 09/00 Assistant Professor of Medicine, Columbia University College of Physicians and Surgeons (New York, NY)
10/00 - 02/03 Associate Professor of Medicine at Columbia Presbyterian Medical Center
Director of Research, Cardiovascular Disease Training Program (New York, NY)
03/03 - J. Griswold Ruth M.D. & Margery Hopkins Ruth Professor of Internal Medicine, University of Michigan (Ann Arbor, MI)
03/04 - Professor of Molecular and Integrative Physiology, University of Michigan (Ann Arbor, MI)

Academic Administrative Appointments

03/03 - Chief, Division of Cardiovascular Medicine
03/03 - Director, Cardiovascular Center

Clinical/Hospital Appointments

07/92-06/93 Clinical Assistant Physician, The Presbyterian Hospital (New York, NY)
07/93-09/00 Assistant Attending Physician, The Presbyterian Hospital (New York, NY)
10/00-02/03 Associate Attending Physician, New York Presbyterian Hospital (New York, NY)
03/03 - Chief of Service, Cardiovascular Medicine, University of Michigan (Ann Arbor, MI)

Research Interests

1. To understand the mechanisms of ischemic vascular injury and develop new targets for protection on a cellular level.
2. To understand the pathophysiological consequences of ischemia-induced microvascular dysfunction.

Grants

Present and Active

R01 HL 086676-01 (D.J. Pinsky, PI)

01/19/07-12/31/11

NIH

Ectonucleotidases in Atherothrombosis and Stroke

This grant is a new direction, replacing R01 NS41460. Studies examine the contribution of ectonucleotidases (CD39 and CD73) to atherothrombosis and stroke using molecular, genetic and pharmacologic approaches.

R01 HL55397 (D.J. Pinsky, PI)

08/01/96-07/31/09

NIH

The Vascular Biology of Lung Preservation

The aims of this grant are to evaluate mechanisms of primary lung graft failure in an orthotopic rat lung transplantation model, and elucidate mechanisms responsible for the development of bronchiolitis obliterans in a mouse model of tracheal transplantation. The focus is on the roles of heme oxygenase and CO.

R01 HL59488 (D.J. Pinsky, PI)

12/1/98-11/30/07

NIH

Leukocyte Adhesion Receptors and Thrombosis in Stroke

This grant examines the role of leukocyte adhesion receptors and the coagulation and fibrinolytic systems in the pathogenesis of evolving murine stroke. A focus for these studies is the transcriptional control, by Egr-1, of inflammatory and thrombotic mediators in the setting of stroke related to ischemic cerebral microvascular inflammation and coagulation.

R01 HL69448 (D.J. Pinsky, PI)

09/30/01-07/31/07*

NIH

Leukoregulation by CD39 in lung ischemia and inflammation

These studies examine the leukoregulatory role of CD39 in lung ischemia and inflammation. CD39 gene knockout mice and soluble recombinant CD39 are studied in the context of lung ischemic and transplant injury.

CMREF (D.J. Pinsky, PI)

4/1/06-03/31/11

American Heart Association

Vascular cell contribution to plexogenic pulmonary arteriopathy in pulmonary arterial hypertension

This grant uses vascular cell samples from blood and lungs of patients with idiopathic pulmonary arterial hypertension to determine whether thrombotic, eicosanoid, or cell proliferative pathways are modulated in a manner that would lead to plexogenic pulmonary vascular disease.

* Includes no cost extension

PENDING

NIH/NHLBI (D.J. Pinsky, PI – Project 3)

Thrombotic/Fibrinolytic Balance in Cardiac Transplant Vasculopathy

Summary of Major Previous Grants

1. Phi Kappa Phi National Postgraduate Fellowship (Fellow)	Phi Kappa Phi	1981-82	\$4,500	\$4,500
2. National Research Service Award (Fellow)	NIH	6/91-5/92	\$25,000	\$57,071
3. National Research Service Award (Fellow)	NIH	6/92-5/93	\$24,500	\$55,930
4. Pilot Project, Enhancing Lung Preservation for Transplantation in Cystic Fibrosis (PI)	Cystic Fibrosis Foundation	6/93-6/94	\$30,000	\$32,400

5.	New Investigator Award, Improving Lung Preservation for Transplantation in Cystic Fibrosis (PI)	Cystic Fibrosis Foundation	6/94-7/96	\$60,000	\$64,800
6.	Clinician Scientist Award, Cardiac Preservation for Transplantation (PI)	AHA National	7/94-6/99	\$248,900	\$248,900
7.	Grant-in-Aid, The Role of the Vasculature in Cardiac Preservation for Transplantation (PI)	AHA (National)	7/94-6/97	\$120,000	\$136,000
8.	Medical Student Research Fellowship, Vascular Biology & Cardiovascular Disease (PI)	AHA (National)	7/96-6/99	\$138,000	\$138,000
9.	RO1 HL 55397, The Vascular Biology of Lung Preservation (PI)	NIH	8/96-7/00	\$811,428	\$1,306,801
10.	RO1 HL55397, The Vascular Biology of Lung Preservation (PI)	NIH	8/00-7/05	\$1,000,000	
11.	NIH T32 (M. Hardy, PI), Postdoctoral Training in Mechanisms of Cardiovascular Disease (Co-PI)	NIH	7/97-02/03	\$1,511,001	
12.	Grant-in-Aid, Leukocyte Adhesion Receptors & Thrombosis in the Pathogenesis of Evolving Stroke (PI)	AHA (NYC)	7/97-6/00	\$136,365	\$150,000
13.	Clinician-Scientist Initiation Grant, Early Preservation Injury Accelerates Graft Atherosclerosis (PI)	AHA (National)	7/97-6/99	\$33,000	
14.	Established Investigator Award, Role of CD39/ecto-ADPase in Murine Stroke (PI)	AHA (National)	1/00-12/03	\$300,000	\$300,000
15.	RO1 HL 59488, Leukocyte Adhesion Receptors & Thrombosis in Stroke (PI)	NIH	10/98-9/02	\$894,994	\$1,505,520
16.	RO1 HL60900, Role of Preservation in Cardiac Transplant Vasculopathy (PI)	NIH	7/99-5/05	\$1,400,039,	\$2,143,647

Honors and Awards

Undergraduate:

The Outstanding Arts and Science Graduate (1981)
Bowman Scholar (1977-81)
University Honors Scholarships (1977 & 1978)
The Outstanding Student Award (1978 & 1979)
The Outstanding Student in Organic Chemistry Award (1980)
Phi Kappa Phi National Honor Society

Medical School:

Phi Kappa Phi National Postgraduate Fellowship (1981)
The Outstanding Freshman Medical Student Award (1982)
The Outstanding Sophomore Medical Student Award (1983)
Alpha Omega Alpha (Vice President, 1984-85)

Postgraduate:

Bristol-Meyers' ACC Affiliate Member Award (1992)
Clinician-Scientist of the AHA (1994)
Winner, Melvin L. Marcus Award in Cardiovascular Physiology
(AHA Young Investigator Award, 1994)
Established Investigator of the AHA (2000)
American Society of Clinical Investigation (2000)
American Society of University Cardiologists (2004)

Memberships in Professional Societies

3/95 – present	Fellow, American College of Cardiology
2/00 – present	American Society for Clinical Investigation (elected)
1/04 – present	Association of University Cardiologists (elected)
3/04 – present	Association of Professors of Cardiology
3/04 – present	AHA, Council on Basic Cardiovascular Sciences
9/04 – present	Society of Professors of Medicine

Editorial Positions, Boards, and Peer-Review Service

Invited Reviewer:

Annals of Thoracic Surgery
American Journal of Pathology
American Journal of Physiology
American Journal of Transplantation
Arteriosclerosis, Thrombosis, and Vascular Biology
Biochimica et Biophysica Acta
Blood

Cardiovascular Drugs and Therapy
Cellular and Molecular Biology
Cellular and Molecular Life Sciences
Circulation
Circulation Research
Diabetes
Experimental Cell Research
FASEB Journal
Gene
Hypertension
Journal of the American College of Cardiology
Journal of Biological Chemistry
Journal of Experimental Medicine
Journal of Immunology
Journal of Lipid Research
Journal of Molecular and Cellular Cardiology
Journal of Neuroscience
Journal of Thoracic and Cardiovascular Surgery
Journal of Pharmacology and Biomedical Analysis
Molecular Pharmacology
Nature Biotechnology
Nature Medicine
The Journal of Clinical Investigation
Stroke
Transplantation
Trends in Molecular Medicine

Editorial Board:

Transplantation (August 2001-present)

Abstract Peer-Review

AHA Scientific Sessions (1998, 1999, 2000)

American College of Cardiology (2006)

Grant Peer Review:

Ad hoc reviewer, various domestic/international foundations (Cystic Fibrosis Foundation, Swiss National Science Foundation, William Beaumont Hospital, Henry Ford Hospital, Department of Veteran's Affairs, Arthritis Research Campaign)

Ad hoc reviewer, various, NIH RFA, PPG, Special Study Sections (multiple)

Ad hoc reviewer, NIH Standing Study Sections (multiple)

Study Section Chairmanships:

McKay Grant Review Committee (Chair, 2003-present)

NIH/NHLBI K23/24/25 panel (June 2004)

NHLBI Research Career Development Programs in Vascular Medicine

(Chair, 2006)
NIH/NHLBI Cardiothoracic Surgery Network in Cardiovascular Medicine
(invited March 2007)

National Study Sections; Charter Memberships:

NIH/NHLBI K23/K24/K25 Study Section, 3/99-present
American Heart Association (National),
(Member, Vascular Wall Biology Study Group), 10/00-10/04
NIH SAT Study Section, 7/01-6/05
CT Surgery Network RFA (Co-Chair) 3/07

Teaching

Preceptor for Third Year Medicine Clinical Clerkship (1995, 1996, 1998, 2002)
Training of Clinical Cardiology & Nuclear Cardiology Fellows (7/93 - 2003)
Director of Research, Cardiovascular Disease Fellowship Training Program (10/00 - 2003)
Johnston I teaching service 2003-2006
Director, Cardiovascular Disease Fellowship Program – Cardiovascular Medicine (9/04 – 2007)

Mentorships of Junior Faculty:

D.J. Pinsky, Primary Research Mentor for:

- Vadim S. Ten, M.D., Ph.D.: Assistant Professor of Pediatrics (sponsored by Bennett Silverman Award)
- Yoshifumi Naka, M.D., Ph.D.: Assistant Professor of Surgery (sponsored by NIH K08 HL004484)
- Paolo Colombo, M.D.: Assistant Professor of Medicine (sponsored by NIH K23 HL072758)
- Cyril Ruwende, MD, PhD: Assistant Professor of Medicine
- Vibha Lama, MD, MS: Assistant Professor of Medicine
- Christine Lau, MD: Assistant Professor of Surgery

Research Co-Mentorship:

- Mitchell S.V. Elkind, M.D., M.S.: Assistant Professor of Neurology (sponsored by NIH K23 NS042912)
- Hina Chaudhry, M.D.: Assistant Professor of Medicine (sponsored by NIH K08 HL067048)

Resident/Fellow Research Preceptor:

- Hui Liao, M.D. (7/92-8/96)
- Yoshifumi Naka, M.D., Ph.D. (7/93-6/96)
- E. Sander Connolly, Jr., M.D. (7/94-6/95)
- Charles J. Prestigiacomo, M.D. (7/95-6/96)
- Catherine Wang, M.D. (7/94-6/98)
- Koichi Toda, M.D., Ph.D. (4/96-3/98)

- Tanvier Choudhri, M.D. (7/96-6/97)
- Koichi Kayano, M.D. (8/96-7/99)
- Yi-Ming Yang, M.D. (3/97-4/97)
- Judith Huang, M.D. (7/97-6/98)
- Kim Olson, M.D. (8/97-7/01)
- Kenji Okada, M.D. (8/97-7/99)
- Tarek Alshafie, M.D. (8/97-7/99)
- Ann Karimova, M.D. (Fulbright Scholar) (8/97-8/98)
- Tomoyuki Fujita, M.D. (7/98-12/01)
- Kanji Minamoto, M.D. (8/98-6/30/03)
- Morihito Okada, M.D. (12/99-6/02)
- Sean Mazer, M.D. (4/00-6/30/03)
- Vadim S. Ten, M.D. (7/01-6/30/03)
- Veniamin Ratner, M.D. (6/02-6/30/03)
- Minghui Chi, M.D., Ph.D. (8/02-6/03)
- Maksim Fedarau, M.D. (6/02-5/05)
- Yasushi Yoshikawa, M.D. (9/01-7/05)
- Snigdha Mishra (8/05 – 05/06)
- Koichiro Iwanaga, M.D. (6/02-8/06)
- Hiroaki Harada, M.D. (4/03-8/06)
- Diane Bouis, M.D. (01/04 – present)
- Scott Visovatti, MD (06/05 – present)
- Tomomi Hasegawa (04/05 – present)
- Takanori Hayasaki (4/06 – present)
- Takashi Ohtsuka (6/06 – present)

Medical Student Research Preceptor:

- Simon Eiref (1st year student, 6-9/93)
- Carlos Rodriguez (2nd year student, 6-9/93)
- Christopher J. Winfree (3rd year student, 7/94-6/95)
- Yi-Ming Yang (4th year student, 11/95-2/96)
- Samuel C. Kim (3rd year student, 7/95-6/96)
- Ed R. Smith (4th year student, 12/95-1/96)
- Brian L. Hoh (3rd year student, 7/96-6/97)
- K.K. Oluwole (4th year student, 12/96-3/97)
- Louis J. Kim (3rd year student, 7/97-6/98)
- Ryan A. McTaggart (3rd year student, 7/98-8/99)
- Szilard Kiss (2nd year student, 7/99-6/00)
- Nathan Nair (3rd year student, 7/00-6/01)
- Ilya Laufer (3rd year student, 7/01-6/02)
- Andrew Ducruet (3rd year student, 6/02-6/03)
- Yuka Yamaguchi (2nd year student, 6/05-9/05)
- Matthew Hyman (MSTP - 3rd year student, 7/05 - present)
- Matthew Barnabei (7/06 – present)
- Nathan Palpant (Thesis committee 12/06 – present)
- Michael Usher (Thesis committee 3/07 – present)

Peer-Reviewed Awards of Trainees for which Dr. Pinsky was Supervisor/Preceptor: 39

- 1994 Columbia University Dept. of Surgery Surgical Research Competition (First Place Award, to Yoshifumi Naka, M.D., Ph.D., “Role of Nitroglycerin in Lung Preservation”; \$500)
- 1995 Columbia University Deans’s Day Medical Student Research Award (to Christopher J. Winfree, “Detrimental Role of Neutrophils in Stroke: A study of neutrophil-deficient and homozygous null ICAM-1 mice”; \$2,000”)
- 1995 American Heart Association Medical Student Scholarship in Cerebrovascular Disease (to Christopher J. Winfree, “Role of Neutrophils in Stroke”; \$2,000)
- 1995 New York Academy of Medicine Glorney-Raisbeck Medical Student Grant in Cardiovascular Disease (to Christopher J. Winfree, “Role of Intercellular Adhesion Molecule-1 in Stroke”; \$3,000)
- 1995 Columbia University Dept. of Surgery Surgical Research Competition (First Place Award, to Yoshifumi Naka, M.D., Ph.D., “Role of the cAMP-dependent protein kinase in lung preservation: implications for the mechanism of action of prostaglandin E₁”; \$500)
- 1995 American Heart Association Cournand and Comroe Young Investigator Award Finalist (Yoshifumi Naka, M.D., Ph.D.), “Stimulation of the cAMP-dependent protein kinase improves lung preservation for transplantation: implications for the mechanism of action of prostaglandin E₁”, \$500.
- 1996 American Heart Association Medical Student Scholarship in Cerebrovascular Disease (to Samuel C. Kim, “Role of IL-6 in Stroke”; \$2,000)
- 1996 Columbia University Deans’s Day Medical Student Research Award (to Samuel C. Kim, “Role of IL-6 in Stroke”; \$2,000”)
- 1996 New York Academy of Medicine Glorney-Raisbeck Medical Student Grant in Cardiovascular Disease (to Samuel C. Kim, “Neuroprotective role of IL-6 in focal cerebral ischemia and reperfusion”; \$3,000).
- 1996 American Heart Association Melvin L. Marcus Young Investigator Award in Cardiovascular Physiology Finalist (to Catherine Wang, M.D., “Reduction of primary isograft dysfunction and remote ICAM-1 expression following heterotopic transplantation of ICAM-1 deficient donor hearts,” \$500).
- 1997 New York Academy of Medicine Glorney-Raisbeck Medical Student Grant in Cardiovascular Disease (to Brian L. Hoh, “Role of Microvascular Thrombosis in Stroke: Use of Active-Site Blocked Factor IXa as a Novel Strategy to Improve Stroke Outcome”; \$3,000).

- 1997 Columbia University Deans's Day Medical Student Research Award (to Brian L. Hoh, "Active-site blocked factor IXa limits microvascular thrombosis in stroke"; \$2,000")
- 1997-98 American Association of Neurological Surgeons Young Clinical Investigator Award (to E. Sander Connolly, Jr., M.D., "Leukocyte adhesion receptors and thrombosis in the pathogenesis of evolving stroke"; \$40,000)
- 1997-98 The New York Academy of Medicine Charles A. Elsberg Fellowship for Laboratory Research in Neurological Surgery (to E. Sander Connolly, Jr., M.D., "Leukocyte adhesion receptors and thrombosis in the pathogenesis of evolving stroke"; \$50,000)
- 1997 American Association of Neurological Surgeon, Galbraith Award to T.F. Choudhri, "Microvascular thrombosis in postischemic hypoperfusion: use of active-site blocked factor IXa as a novel treatment for stroke" (nonmonetary)
- 1998 AOA National Medical Student Research Award to Louis Kim, "Active-site blocked factor IXa as a novel treatment for stroke" (\$4,000)
- 1998 American Federation for Aging Research to Louis Kim, "Active-site blocked factor IXa as a novel treatment for stroke" (\$3,000)
- 1998 New York Academy of Medicine Glorney-Raisbeck Medical Student Award for Research in Cardiovascular Disease to Louis Kim, "Dissolution of microvascular thrombi in stroke" (\$3,000)
- 1998 Columbia University Deans's Day Medical Student Research Award (to Louis J. Kim, "Simultaneous inhibition of selectin activity and complement activation as a novel treatment in murine stroke"; \$2,000")
- 1999 American Federation for Aging Research, Glenn/AFAR Scholarship for Research on The Biology of Aging, to Ryan McTaggart "ABAD, Alzheimer's Disease, and Stroke" (\$4,000)
- 1999 Columbia University Dean's Day Medical Student Research Award (to J Mocco, "Simultaneous Blockade of P- and E-selectins in Primate Stroke"; \$2,000); (Dr. Connolly mentor, Dr. Pinsky co-mentor).
- 1999 New York Academy of Medicine Glorney-Raisbeck Medical Student Award for Research in Cardiovascular Disease to Ryan McTaggart, "Role of CD39 (ectoADPase) in murine stroke" (\$4,000)

- 1999 The American Heart Association Young Investigator Award in Thrombosis (finalist award to Ryan McTaggart, “Cerebroprotective role of CD39 (endothelial ectoADPase) in murine stroke” \$500)
- 1999 The American Heart Association Cournand and Comroe Young Investigator Award in Cardiopulmonary and Critical Care (finalist award to Kenji Okada), “Potentiation of endogenous fibrinolysis and rescue from lung ischemia-reperfusion injury by IL-10” (\$500)
- 2000 American Heart Association Medical Student Scholarship in Cerebrovascular Disease to Szilard Kiss, “Functional role of complement components in murine stroke” (\$2,000)
- 2000 American Federation for Aging Research, Glenn/AFAR Scholarship for Research on The Biology of Aging, to Szilard Kiss “sRAGE inhibition of the post-ischemic proinflammatory axis: a novel treatment for stroke” (\$4,000)
- 2000 The American Heart Association Vivien Thomas Young Investigator Award (finalist Koichi Kayano), “Inhibition of Factor IXa-dependent coagulation ameliorates murine pulmonary ischemia / reperfusion injury” (\$500).
- 2001 American Heart Association Medical Student Scholarship in Cerebrovascular Disease to Nathan Nair, “Intravascular adhesion receptor expression driven by extravascular blood in murine intracerebral hemorrhage.” (\$2,000)
- 2001 Alpha Omega Alpha Student Research Fellowship to Nathan Nair, “Tissue plasminogen activator/complement interactions as a cause for neuronal injury in stroke.” (\$3,500)
- 2001 Columbia University Dean’s Day Medical Student Research Award to Nathan Nair, “Receptor for Advanced Glycation End-products overexpression exacerbates ischemic cerebral injury.” (\$2,000)
- 2001 Glorney-Raisbeck Medical Student Grant Award to Nathan M. Nair, “Effect of amyloid-beta (a β) peptide and a β blockade on focal cerebral ischemia.” (\$3000)
- 2001 National Institutes of Health K08 Award to Dr. Yoshifumi Naka (Dr. Pinsky, Primary Mentor), “Vein graft preservation: thrombosis and neointimal disease.”(\$519,318).
- 2001 The American Heart Association Cournand and Comroe Young Investigator Finalist, “Recipient iNOS but not eNOS-deficiency reduces obstructive airway disease in tracheal allografts.” (Kanji Minamoto, \$500).

- 2001 The American Heart Association “2001 Cardiopulmonary Best Abstract Award,” to Morihito Okada, for abstract entitled “Extinguishing Egr-1-dependent inflammatory and thrombotic cascades following lung transplantation” (\$1,000).
- 2002 The American Heart Association (Heritage Affiliate) Medical Student Training award to Ilya Laufer, “Ischemic cerebrovascular neuroprotection by CO” (\$17,500).
- 2002 National Institutes of Health K23 Award to Dr. Paolo Colombo (Dr. Pinsky, Primary Mentor) “Endothelial cell activation and decompensation in CHF” (\$657,450).
- 2002 American Heart Association (Heritage Affiliate) Medical Student Scientist Award to Dr. Andrew F. Ducruet, “The role of Egr-1 in murine stroke.” (\$22,000)
- 2002 Bennett-Silverman Award, Columbia University Department of Pediatrics (to Vadim S. Ten, Assistant Professor of Pediatrics (Dr. Pinsky, Primary Mentor); “Heme Oxygenase and carbon monoxide in perinatal hypoxic-ischemic encephalopathy (\$225,000).
- 2005 John W. Kirklin Research Scholarship, University of Michigan (to Christine L. Lau, Assistant Professor of Surgery, “Leukoregulation by CD39 in Lung Transplantation.” (\$160,000).

Committee, Organizational, and Volunteer Service

Columbia University

Cardiology Fellowship Selection Committee (July 1992-present)
 Institutional Animal Care and Use Committee (July 1995-present; Chairing meetings in absence of full-time Chair)
 Internal Medicine Residency Selection Committee (December 1997-present)
 Department of Medicine Representative, Faculty Council (elected term 7/1/00-6/30/03)
 Executive Committee of the Faculty Council (elected term 7/1/01-6/30/03)
 Member, Search Committee for Professor of Pediatric Critical Care Medicine
 Chair, Cardiovascular Genetics/Genomics Search Committee

University of Michigan

Member, Search Committee for Chief of Vascular Surgery
 Chief of Service, Cardiovascular Medicine
 Task Force on the Research Enterprise (T-FORE)
 Member, Search Committee for Stern Professorship (Pediatrics)
 Member, Search Committee for Chair of Physiology
 Member, Search Committee for Chair of Scleroderma
 Member, Promotion Committee, Harvard Medical School

Extramural Committee

NIH/NINDS Strategic Planning Committee, Vascular and Genetic Determinants of Stroke Disparities
NIH/NIAID: chronic rejection
NHLBI Lung Transplantation Workshop
NHLBI Strategic Planning Workshop for the next decade (member, 2006)
NINDS Stroke Progress Review Group (SPRG) Endothelium and Thrombosis Section (Co-Chair, 2006)
International Stroke Conference 2006 Session Moderator

Consulting Positions

Various consulting positions including Immunex, Aga-Linde, Bristol Meyers, APT Therapeutics, Glaxo Smith Kline, INO Therapeutics, University of Virginia Cardiology Division External Review

Visiting Professorships, Seminars, and Extramural Invited Presentations

“Role of the Endothelium in Organ Preservation for Transplantation,” American Heart Association conference on the Biology of the Vascular Wall, (Boston, October 1993).

“Improving Heart and Lung Preservation for Transplantation,” Columbia University Dean’s Day Lecture, (New York, NY, May 12, 1995)

“The Vascular Biology of Heart and Lung Preservation for Transplantation” International Society of Thrombosis and Haemostasis Symposium Co-Chair “Vascular Wall Cells”; (Jerusalem, Israel, June 1995)

“Adhesion Molecules and Endothelial Function,” American Heart Association 69th Annual Scientific Sessions (November 13, 1996)

“Endogenous and exogenous nitric oxide in the vascular biology of lung transplantation,” NIH-Sponsored US-Italy Bilateral Workshop on Lung Transplantation, (Washington University, St. Louis, MO, Feb 1997)

“Role of endothelium in organ preservation for transplantation,” Keystone Symposium, (Lake Tahoe, Nevada, March 26, 1998)

“Organ Preservation for Transplantation” University of Miami (Miami, FL, July 24, 1998)

“Use of Transgenic Mice in Stroke Research” (Winter Conference on Brain Research, Snowmass CO, Jan 23, 1999)

“Leukocyte Trafficking in Stroke” (Keystone Symposium, Santa Fe, N.M., March 1999)

“Myocardial Reperfusion” (ELSO Plenary Lecture, University of Michigan, Ann Arbor, MI Sept 23, 1999)

“Leukocyte Adhesion Receptors and Thrombosis in Stroke,” New York Medical College, Dept. of Physiology. (Feb. 2000)

“Microvascular Flow,” University of Virginia, Department of Biomedical Engineering and the Cardiovascular Research Center (March 2000)

“Vascular Endothelium: Source and Target of Inflammatory Mediators,.” NATO Advanced Study Institute (ASI) Conference (Crete, Greece, June 2000)

Organ Failure 2000 (Sponsored by Columbia University, College of Physicians and Surgeons, September 2000)

“Thromboregulatory role of CD39/ectoapyrases,” Weill Medical College of Cornell University, Dept. of Medicine/Hematology (Oct 2000)

“Thrombosis in the Arterial and Cerebral Vasculature,” NIH Symposium, (Nov. 2000, Washington D.C.)

“Reperfusion Injury in the Microvasculature,” University of Alabama, (Cardiology Grand Rounds, May 2001)

“Lung Vessel Ischemic Injury,” University of Pennsylvania, (Institute for Environmental Medicine, May 2001)

“Role of Inflammation and Microvascular Thrombosis in Neurocognitive Dysfunction,” NIH/NINDS Advisory Panel, (September, 2001)

“Vascular Biology of Organ Preservation,” Johns Hopkins University, (December 2001)

“Biological Gases in Ischemic Vessels: Paradoxes and Inspirations,” Morehouse School of Medicine, Cardiovascular Research Institute (December 2001)

“Mechanisms of Leukocyte Adhesion and Microvascular Thrombosis in the Ischemic Lungs,” University of Illinois at Chicago, Department of Pharmacology, (January 2002).

“Inflammatory Paradigms in Stroke,” Keystone Symposium, Plenary Lecture (March 2002)

“Role of carbon monoxide in ischemic vessels,” Plenary Lecture, ATS - (Atlanta, GA, May 2002)

“Endogenous Vascular Gases: Paradoxes and Inspirations,” University of Michigan,

“Biological Gases in Ischemia and Reperfusion,” Columbia University, Department of Pharmacology Grand Rounds, (May 2002)

Second International Conference on Heme oxygenase and Carbon Monoxide. Invited lecturer. (Catania, Sicily, June 2002)

“Role of ischemia and reperfusion in organ transplantation,” AST (American Society for Transplantation) (Dallas, TX July 2002)

“Carbon monoxide and nitric oxide in ischemia and reperfusion,” North Shore University Hospital, Pulmonary Grand Rounds, (December, 2002)

“CD39, an update. Hematology Grand Rounds,” Weill Medical College of Cornell University. (Nov. 2002)

“Role of biological gases in ischemic vessel injury,” Hospital for Special Surgery, Anesthesiology Grand Rounds. (December 2002).

“Biologic Gases in ischemic lung vessels”, North Shore University Hospital (Pulmonary Grand Rounds), Manhasset, New York (December 2002).

“Carbon monoxide and hemeoxygenase in ischemic and transplanted organs,” Harvard Medical School (2003).

“Carbon monoxide and the inflammatory axis,” International Conference on Heme Oxygenase and Carbon Monoxide, Turkey, (June 2003).

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Solution for Prolonged Organ Preservation

US Patent No. 5,370,989

Issue Date: December 6, 1994

Solution for Prolonged Organ Preservation

US Patent No. 5,552,267

Issue Date: September 3, 1996

Method of Inducing Vasorelaxation to Treat Pulmonary Hypertension

US Patent No. 5,728,705

Issue Date: March 17, 1998

Method of Inducing Vasorelaxation to Treat Pulmonary Hypertension

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Issue Date: October 19, 1999

Methods for Treating an Ischemic Disorder and Improving Stroke Outcome

US Patent No. 6,315,995

Issue Date: November 13, 2001

Methods for Treating an Ischemic Disorder and Improving Stroke Outcome

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Issue Date: November 13, 2001

Method for Enhancing Bone Formation

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Use of Tissue Inhibitor of metalloproteinase protein (TIMP) and matrix metalloproteinase (MMP) levels of risk stratification in cardiovascular diseases

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CD39/EctoADPase for Treatment of Thrombotic and Ischemic Disorders

US Patent No. 6,867,177 B2

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Methods for Suppressing Early Growth Response-1 Protein (Egr-1) to Reduce Vascular Injury in a Subject

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Issue Date: November 29, 2005

Inhibition of Egr-1 Expression by PPAR- γ Agonists and Related Compositions and Methods, Egr-1

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Methods for Treating Ischemic Disorders using Carbon Monoxide

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