

CURRICULUM VITAE

Name: David H. Adams, M.D.

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Mount Sinai Medical Center
1190 Fifth Avenue
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Education:

1979 B.S. Duke University, Durham, NC
1983 M.D. Duke University School of Medicine, Durham, NC

Postdoctoral Training:

Internship and Residencies:

1983-1984 Intern in General Surgery, Brigham and Women's Hospital, Boston, Massachusetts
1984-1986 Resident in General Surgery, Brigham and Women's Hospital, Boston, Massachusetts
1986-1988 Research Fellow, Department of Pathology, Harvard Medical School, Boston, Massachusetts
1988-1990 Senior Resident in General Surgery, Brigham and Women's Hospital, Boston, Massachusetts
1990-1992 Resident in Cardiothoracic Surgery, Brigham and Women's Hospital/Children's Hospital, Boston, Massachusetts
1992 Honorary Senior Registrar, Cardiothoracic Unit, Harefield Hospital, London, England

Licensure and Certification:

1986 Massachusetts License Registration, No. 55883
1992 American Board of Surgery, Certificate No. 37635
1994 American Board of Thoracic Surgery, Certificate No. 5442
2001 New York License Registration, No. 223474-1

Academic Appointments:

1983-1986 Clinical Fellow in Surgery, Harvard Medical School, Boston, MA
1986-1988 Research Fellow in Pathology, Harvard Medical School, Boston, MA
1988-1992 Clinical Fellow in Surgery, Harvard Medical School, Boston, MA
1992-1999 Assistant Professor of Surgery, Harvard Medical School, Boston, MA
1999-2001 Associate Professor of Surgery, Harvard Medical School, Boston, MA
2002- Marie-Josée and Henry R. Kravis Professor of Cardiothoracic Surgery, Mount Sinai Medical School, New York, NY

Hospital Appointments:

1992-2001 Attending Surgeon, Brigham and Women's Hospital, Boston, MA
 2002- Attending Surgeon, Mount Sinai Medical Center, New York, NY

Principal Clinical and Hospital Responsibilities:

1995-2001 Co-Director, Heart Transplant Program, Brigham and Women's Hospital
 1997-2001 Associate Chief of Cardiac Surgery, Brigham and Women's Hospital
 2002- Chairman, Department of Cardiothoracic Surgery, Mount Sinai Medical Center

Major Administrative Responsibilities:

1997-2001 Associate Director, Cardiothoracic Residency Program, Brigham and Women's Hospital/Boston Children's Hospital
 1997-2001 Director, Brigham and Women's Hospital Primate Laboratory
 2000-2001 Director, Cardiothoracic Residency Program, Brigham and Women's Hospital/Boston Children's Hospital
 2002- Chairman, Department of Cardiothoracic Surgery, Mount Sinai Medical Center

Committee Assignments:**Hospital:**

1996 Cardiac Transplant ICU Utilization Sub-committee, Partner's Healthcare
 1997 Department of Surgery Research Committee
 1997 Information Systems Committee, Partner's Healthcare
 1997 Telecommunications Physician's Advisory Group
 1997 Clinical Leadership Group, Brigham and Women's Hospital
 1998 Department of Surgery Resident Selection Committee
 1998 O.R. Renovation Design Committee, Brigham and Women's Hospital
 1999 Harvard Medical Institute of Congenital Heart Disease Task Force
 1999 Compliance Committee of the Brigham Surgical Group Foundation, Inc.
 1999 Partners Cardiovascular Marketing Committee
 1999 Board Member, New England Organ Bank
 2000 Partners International Advisory Committee
 2000 Brigham and Women's Hospital Physician Organization Contracts Committee
 2001 Executive Committee, Department of Surgery
 2002-2003 Mount Sinai Faculty Practice Associates (FPA) Executive Committee
 2002- Mount Sinai FPA Board of Governors
 2002- Mount Sinai Communications Committee
 2002- Mount Sinai FPA Finance Committee
 2002- AAS Board of Directors

National:

- 1993 Coronary Revascularization Project, Academic Medical Center Consortium
- 1996 Program Committee, American Society of Transplant Surgeons
- 1997- Thoracic Organ Transplantation Sub-committee, American Society of Transplant Surgeons
- 1999 Council Member, Massachusetts Chapter, American College of Surgeons
- 2000-2001 Xenotransplantation Committee, American Society of Transplantation
- 2001 Board Member, Massachusetts Society of Thoracic Surgery
- 2002- Program Committee, American Association for Thoracic Surgery
- 2004- American Association for Thoracic Surgery, Government Relations Committee
- 2004- Executive and Steering Committees, NIH Sponsored FREEDOM Trial (Surgical Co-Director)

International:

- 1999- Chinese Cardiovascular Surgery Advisory Board
- 2000- Medical Technology Study Section, German Federal Ministry of Education and Research

Professional Society Involvement:

- 1994 International Society of Heart and Lung Transplantation
- 1994 Massachusetts Medical Society
- 1994 American Medical Association
- 1995 American Society of Transplant Surgeons
- 1996 Society of Thoracic Surgeons
- 1996 American College of Surgeons
- 1997 The Transplantation Society
- 1998 Cardiac Surgery Biology Club
- 1999 The American Association for Thoracic Surgery
- 2000 Thoracic Surgery Directors Association
- 2000 The Society for Heart Valve Disease
- 2001 Massachusetts Society of Thoracic Surgery
- 2002 New York Society of Thoracic Surgery

Community Service Related to Professional Work:

- 1997 Visiting Surgeon, Chain of Hope Cardiac Surgical Program, Kingston, Jamaica
- 1998- Medical Director, Project HOPE Coronary Artery Disease Education Program in China

Editorial Boards:

- 1996- Guest reviewer, Annals of Thoracic Surgery

1996- Guest reviewer, Journal of Heart and Lung Transplantation
 1998- Editorial Board, Graft
 1999- Guest reviewer, Journal of Thoracic and Cardiovascular Surgery
 1999- Guest reviewer, Circulation
 2000- Guest reviewer, Journal of Surgical Research
 2002- Editorial Board, The Annals of Thoracic Surgery
 2002- Editorial Board, The Journal of Heart Valve Disease
 2003- Co-editor, Valve Technology Center, CTSnet

Advisory Boards:

2000- Ventrica, Inc., Clinical Advisory Board
 2001 St. Jude Medical Inc., Scientific Advisory Board
 2001- Edwards Lifesciences Corporation, Clinical Council Board Member
 2001- Carbomedics, Inc., Clinical Advisory Board
 2001- Medtronic Inc., Physician Advisory Panel
 2001 Alabama Tissue Center Inc., Medical Advisory Board
 2002- 3F, Medical Advisory Board

Awards and Honors:

1981 International College of Surgeons Scholarship
 1981 Alpha Omega Alpha
 1986 Research Fellowship Award, American Heart Association
 1986 Paul Dudley White Fellow, American Heart Association
 1987 National Research Service Award, National Institutes of Health
 1992 Alton Ochsner Research Scholar, The American Association for Thoracic Surgery
 2000 Honorary Professor of Surgery, Capital University of Medical Sciences, Beijing
 2001 Best Oral Presentation, International Society for Minimally Invasive Cardiac Surgery
 2002 Marie-Josée and Henry R. Kravis Endowed Professor of Cardiothoracic Surgery, Mount Sinai School of Medicine

Report of Research:

Major Research Interests:

1. Transgenic pig to primate xenotransplantation
2. Cardiac valve immunology
3. Mechanical coronary anastomoses
4. Clinical impact of aortic valve prosthesis performance
5. Homograft valve modification

Narrative Description of Research:**Transgenic Pig-to-Primate Xenotransplantation**

The focus of research in my laboratory is the mechanism of graft failure in pig-to primate cardiac xenotransplantation. We are involved in a collaborative effort to employ molecular and immunologic strategies to develop porcine hearts into acceptable human heart replacements. Wild type pig hearts are routinely rejected in humans and higher primates by a process of antibody-directed complement activation which involves rapid microvascular thrombosis, resulting in graft loss within minutes. The target of natural occurring primate xenoreactive antibody is the porcine endothelial antigen gal $\alpha(1,3)$ galactose. In collaboration with Nextran, Inc., we have obtained several lines of transgenic pigs bearing human complement regulatory proteins (CRP) such as decay-accelerating factor (DAF, D55), membrane cofactor protein (MCP, CD46), and complement inhibitor (CD59). Transgenic human CRP better attenuate the primate complement cascade resulting in extended porcine graft survival from minutes to several days. Nevertheless, transgenic porcine grafts invariably fail due to an unclear mechanism. We are currently examining the role of nitric oxide in delayed xenograft rejection.

Cardiac Valve Immunology

Recently we described the lack of expression of blood group carbohydrate antigens on porcine (Gal) and human (ABH) cardiac valve endothelium. We are now pursuing this further in both the porcine and human system. In the porcine primate heart transplant model cardiac valves do not undergo rejection and we are now developing a research plan to explore the use of fresh porcine valves (i.e. unfixed) as a valve replacement alternative. In the human model we are planning to examine serial differences in ABH expression along the arterial tree, and would like to clarify the relevance of lack of ABH expression to homograft valve degeneration.

Mechanical Coronary Anastomoses

Successful anastomotic coupling without the need for sutures would greatly facilitate beating heart coronary bypass procedures. We are investigating a new anastomotic concept with Ventrica Inc. to create sutureless side-to-side distal bypass anastomoses by magnetic coupling. We have applied this technique successfully in a beating heart coronary bypass porcine model with documented six-month angiographic patency.

Clinical impact of aortic valve prosthesis performance

Stentless bioprosthetic aortic valves offer lower gradients versus stented aortic valves. I am the principal investigator of a multi-institutional study randomizing St. Jude porcine stentless valves and Carpentier Edwards pericardial stented valves in the aortic position to further clarify the impact of aortic valve prosthetic hemodynamic performance on short and long term clinical outcomes. 200 patients are being randomized in five centers and followed prospectively for a total of 5 years.

Homograft Valve Modification

One of the obstacles to homograft valve implantation is the lack of a conventional sewing ring which is provided on all other available aortic prostheses. I filed a patent which was recently awarded over 40 claims and am now pursuing a collaborative relationship to develop a new generation of aortic homografts modified to include a sewing ring prior to cryopreservation.

Research Funding:

1989-1994	Co-PI, Grant No. HL43318 National Institutes of Health (Cardiac graft atherosclerosis)
1992-1994	PI, American Association for Thoracic Surgery (Pathogenesis and prevention of cardiac graft atherosclerosis)
1997-2001	PI, Nextran Sponsored Research Grant (Pig-primate heart xenotransplantation); Direct costs: \$300,000/year
1999	PI, Guidant Sponsored Research Grant (Coronary anastomotic stapling); Direct costs: \$150,000
2000- 2001	PI, Ventrica Sponsored Research Grant (Coronary anastomotic coupling); Direct costs: \$150,000/year
2001	PI, CIMIT New Concept Award (Minimally invasive pulmonary artery banding of porcine cardiac xenografts); Direct costs: \$25,000

Report of Teaching:**Local****Invited Presentations:**

1994	Cardiac Surgical Grand Rounds, Brigham and Women's Hospital (Heart-lung re-transplantation. The Harefield experience)
1995	Cardiology Grand Rounds, Brigham and Women's Hospital (Cardiac graft atherosclerosis)
1996	Cardiac Surgical Grand Rounds, Brigham and Women's Hospital (Heart-lung transplantation)
1997	Lecturer, HST Intro to Clinical Medicine (Adult cardiac surgery)
1997	Surgical Grand Rounds, Brigham and Women's Hospital (Minimally invasive cardiac surgery)
1997	Boston Surgical Society (Minimally invasive cardiac surgery)
1997	Anesthesia Grand Rounds, Brigham and Women's Hospital (Techniques in minimally invasive cardiac surgery)
1998	Surgical Grand Rounds, Brigham and Women's Hospital (Tumors of the heart)
1998	Cardiac Surgical Grand Rounds, Brigham and Women's Hospital (Aortic valve disease)
1998	Cardiac Surgical Grand Rounds, Brigham and Women's Hospital (Mitral valve disease)

- 1998 Board of Trustees, Brigham and Women's Hospital (Pig to primate xenotransplantation)
- 1998 Cardiology Rounds, Brigham and Women's Hospital (Surgical therapy for endocarditis)
- 1998 Cardiovascular Grand Rounds, Brigham and Women's Hospital (Principles of mitral valve reconstruction)
- 1999 Cardiology Grand Rounds, West Roxbury Veterans Administration Medical Center (Mitral valve repair: State of the art)
- 1999 Department of Medicine - Morbidity and Mortality, Brigham and Women's Hospital (Surgical management of mycotic pseudo-aneurysm)
- 2000 Surgical Resident Conference, Brigham and Women's Hospital (Code blue)
- 2000 Department of Anesthesia Grand Rounds, Brigham and Women's Hospital (Mitral valve: techniques of reconstruction)
- 2000 Department of Medicine Pathology Conference, Brigham and Women's Hospital (Atrial myxoma)
- 2000 Department of Surgery Grand Rounds, Brigham and Women's Hospital (Porcine organ xenotransplantation: barriers, progress, and future direction)
- 2000 Department of Medicine Case Studies, Brigham and Women's Hospital (aortic dissection)
- 2002 Department of Medicine Grand Rounds, Mount Sinai Medical Center (Modern medical and surgical therapy of mitral regurgitation)
- 2003 Mount Sinai Academic Symposium, New York, New York
- 2004 Invited Speaker, Symposium of Cardiac Diseases, Jersey City Medical Center (Modern surgical approaches to congestive heart failure)
- 2004 Presenter, Mini-Med School Spring 2004 "In the Cut", Mount Sinai Medical Center (Braveheart)
- 2004 Invited Speaker, Department of Surgery Grand Rounds, Mount Sinai Medical Center (Surgical therapy of valvular heart disease)
- 2004 Faculty, Live Symposium of Complex Coronary & Vascular Cases (Challenging interventional strategies: percutaneous mitral valve)
- 2005 Invited Speaker, Medical Staff Conference at Pasack Valley Hospital, Westwood, New Jersey (Current progress in mitral valve repair)
- 2005 Faculty, 3rd Annual New Jersey Cardiovascular Symposium: An Update in the Management of Acute Coronary Syndromes and Heart Failure, Newark, New Jersey (Current concepts in mitral valve repair)

Continuing Medical Education Courses:

- 1997 Faculty, 2nd Brigham Cardiac Valve Symposium, Boston, MA (Video Presentations: Homograft root replacement; Mitral valve homograft implantation)
- 1999 Faculty, 3rd Brigham Cardiac Valve Symposium, Boston, MA (Lectures: Minimally invasive mitral valve surgery, Mitral valve endocarditis; Moderator: Aortic valve surgery - small aortic root)

Mentoring Responsibilities:

- 1992- As a member of the cardiac surgery faculty, I have daily interactions with 2nd year general surgery residents and cardiac surgery residents/fellows. Recognized as a dedicated teacher, I work predominantly with our most senior trainees. I also serve as the Cardiothoracic Residency Program Director.
- 1997- I currently supervise 3 post-doctoral fellows, one 4th year student, and 4 full-time laboratory personnel in my research laboratory.

Regional, National, and International Contributions:

- 1995 Plenary Presentation, 6th International Symposium on Cardiac Surgery, Rome, Italy (Advances in surgery of the aortic valve. Biologic vs prosthetic vs repair)
- 1996 Lecture, Cape Cod Hospital Cardiology Retreat, Hyannis, MA (Minimally invasive coronary bypass surgery)
- 1996 Plenary Presentation - live case demonstration, 1st International Symposium. Minimally Invasive Thoracic Surgery Interest Group, Boston, MA (Minimally invasive direct coronary bypass procedure)
- 1997 Lecture, Lowell General Hospital Cardiology Rounds, Lowell, MA (Minimally invasive valve surgery)
- 1997 Plenary Presentation, Contemporary Forums - Cardiac Issues and Advances, Boston, MA (Minimally invasive cardiac surgery)
- 1998 Plenary Presentation, Techniques in Video-Assisted Cardiac Surgery, Boston, MA (Video assisted saphenous vein harvest)
- 1998 Presentation, Baxter - China Cardiovascular Surgery Advisory Board, New Delhi, India (Perspective on coronary artery disease care in China)
- 1998 Visiting Lecturer, Anzhen Hospital, Beijing (Coronary bypass strategy; Acid-base balance; Hemodynamic management after cardiac surgery; Mitral valve repair)
- 1999 Invited Lecturer, Cardiac Surgery Biology Club, New Orleans (Cardiac xenotransplantation)
- 1999 Visiting Lecturer, Anzhen Hospital, Beijing (Coronary bypass techniques, Intraoperative management)
- 1999 Visiting Lecturer, Guandong Cardiovascular Institute, Guanzhou (Coronary bypass surgery, Operative strategy, Dealing with associated heart procedures during coronary revascularization)
- 1999 Visiting Lecturer, Changhai Hospital, Shanghai (Cardiovascular teamwork, Conduit choices for coronary revascularization)
- 2000 Cardiology Rounds, Leonard Morse Hospital (Mitral valve repair)
- 2000 Medical Grand Rounds, Charlton Memorial Hospital (Principles and practice of mitral valve repair)
- 2000 Invited Lecturer, Cardiac Surgery Biology Club, Toronto (Cardiac valve immunology)

- 2000 Invited Lecturer, International Symposium on Prevention and Treatment of Heart Disease in the 21st Century, Capital Institute of Medical Sciences, Beijing (Surgical management of mitral valve disease; Cardiac xenotransplantation)
- 2000 Invited Lecturer, International Symposium on Advanced Technique of Cardiovascular Surgery, Fu Wai Hospital and Cardiovascular Institute, Peking Union Medical College & Chinese Academy Medical Sciences, Beijing (Mitral Valve Reconstruction)
- 2000 Surgical Grand Rounds, St. Luke's Hospital (Mitral Valve Update)
- 2000 Honored Lecturer, Japanese Society for Cardiovascular Surgery, Tokyo (Reconstructive techniques for mitral valve regurgitation)
- 2000 Plenary Presentation, 51st Annual General Meeting of the Irish Cardiac Society, Cork (Results of 518 Minimally Invasive Heart Valve Operations)
- 2000 Invited Lecturer, International Forum on Ischemic Mitral Valve Regurgitation, Monterey, CA (Decision Making in Patients with Ischemic Mitral Regurgitation)
- 2000 Course Director and Invited Lecturer, Edwards Lifesciences Cardiac Surgery Update, Beijing (Mitral valve operations)
- 2000 Moderator, VIII International Symposium Cardiac Bioprotheses, Yucatan, Mexico (Vascular grafts and bioprotheses)
- 2000 Invited Lecturer, NIH Conference - Scientific Frontiers in Cardiothoracic Surgery, Bethesda (Xenotransplantation)
- 2001 Invited Lecturer & Moderator, 4th International Symposium for Redo Cardiac Surgery in Adults, San Diego, CA (Repair of mitral valve in redo cardiac surgery)
- 2001 Invited Lecturer, Symposium on Ischemic Mitral Regurgitation, Dearborn, MI (Pre-operative and intra-operative surgical decision making; long-term clinical results of mitral valve repair)
- 2001 Invited Lecturer, Michael E. DeBakey Department of Surgery, Baylor College of Medicine, Grand Rounds, Houston, TX (Surgical therapy of mitral valve disease)
- 2001 Invited Lecturer, Division of Cardiology Grand Rounds, Massachusetts General Hospital, Boston, MA (Ischemic mitral regurgitation)
- 2001 Moderator, 37th Annual Meeting of the Society of Thoracic Surgeons, New Orleans, LA (Valves and rhythms)
- 2001 Invited Lecturer, Biology Club, San Diego (Cardiac xenotransplantation: update)
- 2001 Invited Lecturer, Edwards Lifesciences, San Diego (Mitral reconstruction: how to do it)
- 2001 Moderator, Transplant 2001, Chicago (Transgenic animals)
- 2001 Invited Lecturer, Advanced Therapy in Congestive Heart Failure, Buffalo, New York (Surgical treatment of the ischemic mitral valve)
- 2001 Moderator & Invited Lecturer, Edwards Educational Program: Current Controversies in Valve Surgery, San Diego, CA (Complicated mitral valve repair – challenges and solutions)

- 2001 Invited Lecturer, 34th Annual New York Cardiovascular Symposium American College of Cardiology, New York, NY (The surgical challenge of ischemic mitral regurgitation)
- 2002 Invited Lecturer, STS/AATS Tech-Con 2002, Ft. Lauderdale, FL (Distal anastomotic connectors)
- 2002 Invited Lecturer, Symposium on the Treatment of Coronary Artery Disease, Pittsburgh, PA (The challenge of ischemic mitral valve regurgitation)
- 2002 Invited Lecturer, 38th Annual Robert M. Jeresaty, M.D. Cardiovascular Symposium, Hartford, CT (The surgical challenge of ischemic mitral regurgitation)
- 2002 Invited Lecturer, X International Symposium on Ischemic Heart Disease, Spanish Society of Cardiology, Bilbao, Spain (Surgical approaches to the treatment prognosis of ischemic mitral regurgitation)
- 2002 Faculty, 82nd Annual Meeting of the American Association for Thoracic Surgery Post Graduate Course, Washington, DC (Ischemic mitral valve disease in patients undergoing CABG: Should mild to moderate valvular regurgitation be repaired?)
- 2002 Invited Speaker, Cleveland Clinic Foundation Thoracic and Cardiovascular Surgery Grand Rounds, Cleveland OH (Ischemic Mitral Insufficiency – Where are we?)
- 2002 Invited Speaker, Our Lady of Lourdes Medical Center, Camden, NJ (
- 2002 Faculty, Valvular Heart Disease 2002, Mayo Clinic, Rochester, MN (Surgical treatment of ischemic MR: CABG alone or surgical repair)
- 2002 Co-chair, Valvular Heart Disease 2002 Echocardiographic Assessment: a Case Based Approach, Orlando FL (Indications for surgery; Surgical techniques)
- 2002 Grand Sponsor Talk, South Atlantic Cardiovascular Society, Williamsburg, VA (Ischemic mitral regurgitation: in whom we should operate and how should we fix it?)
- 2002 Guest operating surgeon and Lecturer, University of Michigan Symposium: Defining Techniques in mitral valve repair: live symposium, Ann Arbor, MI (Surgery: mitral valve repair), (Lecture: Treating ischemic mitral valve disease)
- 2002 Moderator, Luncheon Session European Association for Cardiothoracic Surgery, Monaco (Tricuspid, the forgotten valve)
- 2002 Faculty, Brigham Cardiac Valve Symposium, Boston, MA (Ischemic mitral regurgitation - principles of repair)
- 2002 Faculty, Edwards Residents Symposium, Costa Mesa, CA (Surgical treatment of IMR)
- 2002 Guest Speaker, Edwards Lifesciences Investor's Conference, New York, NY (Trends in the treatment of advanced cardiovascular disease)
- 2002 Faculty, American College of Chest Physicians Cardiac and General Thoracic Surgery Update 2002, Cancun, Mexico (Timing and necessity of mitral valve repair and coronary artery disease)

- 2002 Faculty, American College of Cardiology, New York Cardiovascular Symposium (The surgical repair of aortic and mitral regurgitation)
- 2003 Faculty, NewEra Cardiac Care: Innovation and Technology, Dana Point, CA (Mitral reconstruction in heart failure patients; anastomotic devices for bypass surgery)
- 2003 Faculty, Edwards International Forum Controversies and Innovations in Cardiac Surgery and Cardiology, Palm Desert, CA (Coronary artery bypass surgery with moderate mitral regurgitation; CABG alone or valve repair too?)
- 2003 Faculty, Cardiothoracic Techniques and Technology Meeting, Miami Beach, FL (Mitral valve repair for ischemic regurgitation)
- 2003 Faculty, Society of Cardiovascular Anesthesiologists, Miami, FL (Aortic valve disease: surgeon's perspective; Classification and assessment of mitral valve regurgitation)
- 2003 Program Director, Redo Cardiac Surgery in Adults, Boston, MA (Mitral valve repair and ischemic heart disease in redo cardiac surgical patients)
- 2003 Faculty, Adult Cardiac Surgery Symposium, American Association for Thoracic, Boston, MA (Coronary artery bypass in a patient with moderate mitral regurgitation: a case for concomitant mitral valve repair)
- 2003 Co-Moderator, Emerging Technologies Forum, American Association for Thoracic Surgery, Boston, MA
- 2004 Visiting Professor, Cardiac Surgery Grand Rounds, Toronto General Hospital, Toronto, Canada (Evolving strategies in ischemic mitral regurgitation)
- 2004 Visiting Professor, 104th Annual Congress of the Japan Surgical Society, Osaka, Japan (keynote lecture: Valvular heart disease; Cardiac surgery – my surgical procedure videos)
- 2004 Visiting Professor, 3rd Five-Continent International Symposium on Cardiovascular Diseases, Beijing, China (Progress in valvuloplasty)
- 2004 Presenter, American College of Cardiology, New Orleans, LA (Mechanical complications of Myocardial infarction)
- 2004 Faculty, NewEra Cardiac Care: Innovation and Technology, Dana Point, CA (Mechanism of ischemic mitral regurgitation: echo and clinical issues)
- 2004 Keynote Speaker, Penn Cardiac Valve Symposium, Philadelphia, PA (Surgery on the mitral valve)
- 2004 Invited Faculty, Carolina Valve Symposium, Greenville, North Carolina (Moderator: Valve sparing aortic root replacement; Moderator: Mini-mitral repair-videoscopic; Lecture: Surgical treatment of ischemic mitral regurgitation; Lecture: Mitral valve repair: the basics; Live Surgery: Mitral valve repair sternotomy; Moderator: Mitral valve echocardiography; Live Surgery: Minimally invasive aortic valve replacement)
- 2004 Guest Faculty, Cedars-Sinai Heart Center, Controversies in Adult Cardiac Surgery, Santa Monica, CA (Surgical approaches to ischemic mitral regurgitation)

- 2004 Faculty, 37th Annual New York Cardiovascular Symposium, New York, New York (The case for mitral valve repair and low EF)
- 2005 Guest Faculty, German Society of Cardiothoracic Surgery (Mitral bioprosthetic valves: how young is too young?)
- 2005 Guest Faculty, Florida Society of Thoracic and Cardiovascular Surgeons 38th Annual Meeting, Tampa Bay, Florida (Ischemic Mitral Valve Disease)
- 2005 Invited Faculty, First Annual Heart Valve Summit, Chicago, Illinois (Myxomatous Mitral Valve Disease: Late Outcomes; Ischemic Mitral Regurgitation: To Treat or Not? Repair or Replace?)
- 2005 Invited Faculty, Valves in the Heart of the Big Apple IV, New York, New York (Lecture: Coronary and MR – when do you do both?; Moderator: Mitral Regurgitation II Session)
- 2005 Invited Faculty, Carolina Valve Symposium, Greenville, North Carolina (Moderator: Valve sparing aortic root replacement; Moderator: Robotic mitral valve repair; Moderator: The BioPhysio valve: an advanced concept in the treatment of aortic valve disease; Moderator: Mini-mitral valve repair – videoscopic; Moderator: Mitral repair – sternotomy; Lecture: Mitral valve repair: the basics; Live Surgery: mitral valve repair – maze procedure; Lecture: Surgical treatment of ischemic mitral regurgitation)
- 2005 Guest Faculty, Recent Advances in the Management of Valvular Heart Disease: the present state-of-the-art in diagnosis and intervention, St. Louis, Missouri (Recent advances in mitral valve repair)
- 2005 Visiting Professor, University of Pennsylvania School of Medicine Cardiothoracic Surgery Grand Rounds (Current concepts in ischemic mitral regurgitation)
- 2005 Invited Faculty, Society of Cardiovascular Anesthesiology Annual Meeting, Baltimore, MD (Aortic prosthetic valve size: how small is too small?; Ischemic Mitral Regurgitation)
- 2005 Guest Faculty, Heart Valve Club, Montreal, Canada (Surgical management of ischemic mitral valve regurgitation)
- 2005 Visiting Professor, Eastern Maine Medical Center Cardiology Grand Rounds, Bangor, Maine (mitral valve regurgitation: current concepts)
- 2005 Course Co-Director, Society of Heart Valve Disease Postgraduate Course, Vancouver, Canada (Lecture: Fundamentals of mitral valve repair)
- 2006 Speaker, Edwards Lifesciences Dinner Symposium, Chicago, IL. (Surgical repair of IMR)
- 2006 Invited Presenter, The Society of Thoracic Surgery 42nd Annual Meeting, Chicago, IL (Larger annuloplasty rings facilitate mitral valve repair in Barlow's disease)
- 2006 Faculty, Echo-In-Context; the 21 Annual World Teleconference; Aggressive Echo: Adapting to New Realities (What is the role of the surgeon in heart failure)

- 2006 Faculty Discussant, Echo-In-Context; the 21 Annual World Teleconference; Aggressive Echo: Adapting to New Realities (Percutaneous valves)
- 2006 Faculty, Echo-In-Context; the 21 Annual World Teleconference; Aggressive Echo: Adapting to New Realities (Current state of the art for surgical management of mitral valve disease)
- 2006 Faculty, Echo-In-Context; the 21 Annual World Teleconference; Aggressive Echo: Adapting to New Realities (Surgical advances)
- 2006 Invited Lecturer, New Mexico Society of Thoracic Surgeons, Albuquerque New Mexico. (Mitral valve repair)
- 2006 Invited Faculty, The 10th Annual Hilton Head Workshop and 2nd Biennial Heart Valve Meeting: Advances in Innovative Technologies and Tissue Engineering for the Treatment of Heart Valve Disease (Bioprosthesis past, present and future)
- 2006 Invited Speaker, the 55th Annual Scientific Session of the American College of Cardiology, Atlanta, Georgia (Functional Ischemic Mitral Regurgitation Session: Pathology and pathophysiology)
- 2006 Invited Co-Chair, the 55th Annual Scientific Session of the American College of Cardiology, Atlanta, Georgia (Session: What you need to know about degenerative mitral regurgitation)
- 2006 Faculty, Essential Echocardiography with Experts. Atlanta, Georgia (Surgical remodeling of the LV apex - Fundamentals of surgical methods for the imager)
- 2006 Faculty, CUT TO THE HEART *Technologies and Solutions in Heart Valve Surgery*, San Francisco, CA (Indications and surgical techniques for ischemic mitral regurgitation and tricuspid regurgitation: myxomatous valve repair)
- 2006 Invited Speaker, The 70th Anniversary Annual Scientific Meeting of the Japanese Circulation Society, Nagoya, Japan (New diagnostic and therapeutic strategies for ischemic mitral regurgitation)
- 2006 Invited Speaker, the American Association for Thoracic Surgery 86th Annual Meeting, Adult Cardiac Surgery Symposium, Philadelphia, PA. (Surgical management of ischemic mitral regurgitation)
- 2006 Discussant, the American Association for Thoracic Surgery 86th Annual Meeting, Philadelphia, PA. (Chordal "Translocation" for Functional Mitral Regurgitation (MR) ---- Towards Another Surgical Contribution in the Era of Percutaneous Valve Treatment by Masahira Fukuoka, Michihito Nonaka, Tadashi Ikeda, Masashi Komeda *Kyoto, Japan*)
- 2006 Speaker, Edwards Lifesciences Dinner Symposium, Philadelphia, PA. (Surgical repair of IMR)
- 2006 Invited Speaker, The 14th Annual Meeting of the Asisan Society for Cardiovascular Surgery, Osaka, Japan (Meet the experts: Current concepts in ischemic mitral regurgitation)

- 2006 Keynote Lecturer, The 14th Annual Meeting of the Asisan Society for Cardiovascular Surgery, Osaka, Japan (Outcomes after degenerative mitral valve repair)
- 2006 Program Director Moderator, and Speaker, 2006 Heart Valve Summit presented by the American College of Cardiology, Chicago, IL.(Understanding surgery for degenerative mitral valve disease)
- 2006 Speaker, 2006 Heart Valve Summit presented by the American College of Cardiology, Chicago, IL.(Surgical management of mitral valve endocarditis)
- 2006 Speaker, Heart Valve Summit presented by the American College of Cardiology, Chicago, IL.(Debate (Pro): Mitral regurgitation in patients with cardiomyopathy is a surgical disease)
- 2006 Speaker, Heart Valve Summit presented by the American College of Cardiology, Chicago, IL.(Debate (Con): The future of mitral valve repair is percutaneous)
- 2006 Faculty, CUT TO THE HEART *Technologies and Solutions in Heart Valve Surgery*, Chicago, IL (Indications and surgical techniques for ischemic mitral regurgitation and tricuspid regurgitation: myxomatous valve repair)
- 2006 Invited Speaker, Chicago Cardiothoracic Surgical Society, Chicago, IL ()
- 2006 Speaker, The Associates (Where will heart surgery be in 2010?)
- 2006 Co-Director, Heart Valve Club, New York, NY
- 2006 Guest Faculty, Cleveland Clinic Kaufman Center for Heart Failure and the American Association for Thoracic Surgery present 21st Century Treatment of Heart Failure: Synchronizing Surgical and Medical Therapies for Better Outcomes, Cleveland, OH (Debatable Surgical Strategies for Heart Failure: MV Annuloplasty Rings – Pro: New shapes will be the answer)
- 2006 Faculty, Dallas Valve Symposium, Dallas, TX (Moderator: Mitral Valve; Speaker: Understanding surgery for mitral regurgitation)
- 2006 Co-Director, Problem Solving in Cardiac Surgery: Edwards Lifesciences Fellows Program, Irvine, CA
- 2006 Speaker, Edwards Lifesciences Investor Conference, New York, NY ()
- 2006 Faculty, the American College of Cardiology presents the 38th Annual New York Cardiovascular Symposium, New York (Chairperson and Speaker: Novelty to the approach of severe MR and low EF: a case for valve repair and remodeling of the heart)
- 2007
- 2008 Presenter, The 44th Annual Meeting of The Society of Thoracic Surgeons Meeting, Fort Lauderdale, FL, January 28-30, 2008 (Surgical Video: Leaflet Reconstruction with Glutaraldehyde-fixed Autologous Pericardium in Complex Mitral Valve Repair)

- 2008 Invited Faculty: 4th Asian Pacific Congress of Heart Failure, Melbourne, Australia, February 3, 2008 (Surgery for degenerative mitral valve disease)
- 2008 Faculty: imPROVE 2008 – Improving Diagnosis, Reporting and Management of Heart Valve Disease, sponsored by the American Society of Echocardiography, San Diego, CA, February 16-17, 2008 (Moderator: Fundamentals of Valvular Heart Disease; Mitral Regurgitation; Aortic Regurgitation; Surgical Repair: When, In Whom and How?; Surgery for “Asymptomatic” Severe Valvular Regurgitation: When and Why?; Moderator: The Structured Echo Report for Valve Disease)
- 2008 Faculty: 11th Annual Comprehensive Review & Update of Perioperative Echo sponsored by the Society of Cardiovascular Anesthesiologists, San Diego, CA, February 15, 2008 (Surgical Repair of the Mitral Valve; The Future of Cardiac Surgery)
- 2008 Faculty: Edwards Dinner Symposium, Pune, India, February 22, 2008 (IMR: Indications for Surgery – Repair or Replace)
- 2008 Faculty: 54th Annual Conference of the Indian Association of Cardiovascular Thoracic Surgeons, Pune, India, February 22, 2008 (Complex Mitral Valve Reconstruction)
- 2008 Faculty: E3 2008 - Essential Echocardiography with Experts, Chicago, March 29, 2008 (The Right Ventricle - Surgical Anatomy; TV Surgery for Carcinoid)
- 2008 Invited Speaker: 57th Annual Scientific Session of the American College of Cardiology, Chicago, IL, March 30, 2008 (Surgical Decision Making in Ischemic Mitral Regurgitation: When and How to Approach Mitral Regurgitation in the Patient with Coronary Artery Disease)
- 2008 Debater: 57th Annual Scientific Session of the American College of Cardiology, Chicago, IL, March 30, 2008 (PCI Is Superior to CABG for MV Disease: In Your Dreams/Antagonist)
- 2008 E-moderator: 57th Annual Scientific Session of the American College of Cardiology, Chicago, IL, March 30, 2008 (Live case transmission session)
- 2008 Invited Lecturer: Ohio State University Division of Echocardiography: Real Time 3D Transesophageal Echocardiography in Clinical Practice Symposium, Columbus, OH, April 30, 2008 (Mitral Valve Repair in 2008: Why and How I use 3D Echo)
- 2008 Visiting Professor: Ohio State University Department of Cardiothoracic Surgery Grand Rounds, Columbus, OH, May 1, 2008 (Mitral Valve Update)
- 2008 Faculty: New York Heart Research Foundation Symposium: Latest Treatments of Heart Failure, Cardiac Arrhythmias, Devices & Surgical Advances of Mitral Valve Repair, New York, May 4, 2008 (*Latest Surgical Advances in Mitral Valve Repair*)
- 2008 Guest Faculty: The University of Chicago Section of Cardiology - New Frontiers in Echocardiography: World’s First Course on Live 3D TEE with Interactive Imaging Sessions, Chicago, IL, May 10, 2008 (Mitral

- Valve Anatomy: What information does the Surgeon really want?; Current Concepts in Mitral Valve Repair for Degenerative and Ischemic Mitral Valve Disease; Advantages of Real-Time Matrix TEE from a Surgical Perspective New York Experience)
- 2008 Invited Discussant: 88th Annual Meeting of the American Association for Thoracic Surgery, San Diego, CA, May 13, 2008 (How does the use of PTFE neochordae for posterior mitral valve prolapse (loop technique) compare with leaflet resection? Results of a prospective randomized trial)
- 2008 Invited Discussant: 88th Annual Meeting of the American Association for Thoracic Surgery, San Diego, CA, May 13, 2008 (Elimination of Moderate Ischemic MR Does Not Ameliorate Long-Term LV Remodeling)
- 2008 Invited Moderator: 2008 The American Association for Thoracic Surgery/ The Society of Thoracic Surgeons Adult Cardiac Symposium, San Diego, CA, May 11, 2008 (*Session: Mitral Valve Controversies*)
- 2008 Invited Speaker: 2008 The American Association for Thoracic Surgery/ The Society of Thoracic Surgeons Adult Cardiac Symposium, San Diego, CA, May 11, 2008 (Spectrum of Degenerative Diseases of the Mitral Valve)
- 2008 Faculty: Cardiology Conference at the Hospital Alemán, Buenos Aires, May 19, 2008 (Implications of Pathology in Mitral Valve Disease)
- 2008 Faculty: 2008 World Congress of Cardiology, Buenos Aires, May 20, 2008 (Mitral valve reconstruction: What have we learned during the past 40 years? In-hospital and long-term follow-up on surgical valve repair)
- 2008 Visiting Professor: George Washington University Department of Surgery Grand Rounds, Washington, DC, May 27, 2008 (Implications of Pathology in Mitral Valve Disease)
- 2008 Visiting Professor, 8th Annual Resident Lecture Program, Division of Cardiothoracic Surgery, Emory University School of Medicine, Atlanta, GA, May 29, 2008 (Quality in Surgery: Lessons from the Mitral Valve)
- 2008 Faculty, The American Society of Echocardiography 19th Annual Scientific Sessions, Toronto, ON, Canada, June 7, 2008 (Mitral valve prolapse: leaflet and annular anatomy; Mitral valve repair for degenerative mitral regurgitation; Normal vs bicuspid aortic valve and relevant aortic root anatomy; LV Aneurysm and pseudoaneurysm; Constrictive pericarditis)
- 2008 Faculty, The American Society of Echocardiography 19th Annual Scientific Sessions, Toronto, ON, Canada, June 8, 2008 (Echocardiography for the surgeon: critical role in heart failure teaching;
- 2008 Chairperson, The American Society of Echocardiography 19th Annual Scientific Sessions, Toronto, ON, Canada, June 7, 2008 (Echocardiography directed surgical therapy in heart failure)
- 2008 Faculty and Co-Chair, The American Society of Echocardiography 19th Annual Scientific Sessions, Toronto, ON, Canada, June 9, 2008

- (Echocardiography in mitral valve replacement for mitral regurgitation; Mitral valve repair; Surgical repair: mitral valve innovations)
- 2008 Faculty, 2008 Mount Sinai Heart Nurse Practitioner Symposium, New York, September 12, 2008 (Differentiating mitral valve disease in 2008)
- 2008 Invited Speaker, Latest Advances in 2D and Live 3D Echocardiography Satellite Meeting of the European Congress of Cardiology, Munich, August 30, 2008 (The role of echocardiography in advancing mitral valve repair)
- 2008 Video Presenter: Annual Meeting European Association for Cardiothoracic Surgery, Lisbon, September 16, 2008 (Useful tips and techniques in Barlow's mitral valve repair by Adams DH, Chikwe J, Castillo JG, Filsoufi F, Anyanwu A. Mount Sinai Medical Center, New York, USA)
- 2008 Edwards Luncheon Symposium, Lisbon ()
- 2008 Course Co-Director, Heart Valve Summit 2008 Case-Based Solutions; Medical and Surgical Management, Chicago, IL, September 18-20, 2008
- 2008 Faculty, Heart Valve Summit 2008 Case-Based Solutions; Medical and Surgical Management, Chicago, IL, September 18-20, 2008 (Mitral valve anatomy from the operating room; Reference mitral valve surgery; Mastering mitral valve repair; Recurrent MR after mitral valve repair)
- 2008 Faculty, 24th Annual Cardiovascular Symposium at Hartford Hospital, Hartford, CT, October 8, 2008 (Seeking a higher standard for patients with mitral disease)
- 2008 Lecturer, Transcatheter Cardiovascular Therapeutics 2008, October 13, 2008 (Mitral valve apparatus surgical pathology – what the interventionalist “doesn’t see” but needs to know)
- 2008 Discussant, Transcatheter Cardiovascular Therapeutics 2008, October 13, 2008 (The valvular heart disease summit: medical, surgical, and percutaneous approaches; Mitral regurgitation – Core concepts)
- 2008 Course Co-Director, Problem Solving in Cardiac Surgery - Edwards Lifesciences Fellows Program, Irvine CA, October 16-18.
- 2008 Faculty, 6th Annual Cardiovascular Ultrasound: From Pictures to Information, Phoenix, October 19, 2008 (Mitral regurgitation and ischemic heart disease. Do all valves require repair? Is it the valve or the ventricle? How do I employ intraoperative echocardiography; Mitral Valve Repair: Can I do without intraoperative echo? Anatomy from the surgeon. What do I need?; Panel Discussion: Surgical approaches to intraoperative echocardiography)
- 2008 Faculty, The Postgraduate Course for our Annual Meeting of the Canadian Society of Cardiac Surgeons, Toronto, October 26, 2008 (A lesion specific strategy in mitral valve reconstruction)
- 2008 Guest Speaker, The 6th Toronto Perioperative TEE Conference, Toronto, November 1, 2008 (3D echo and mitral valve repair)

- 2008 Moderator, The American Heart Association Scientific Sessions 2008, New Orleans, Louisiana, November 11, 2008 (How to treat ischemic mitral regurgitation)
- 2008 Invited Lecturer: Keio University Hospital, Tokyo November 21, 2008
- 2008 Faculty, The 20th Tokyo Cardiac Surgery Conference, Tokyo, November 22, 2008 (Anterior Leaflet Mitral Valve Plasty: Resection and Chordal Techniques)
- 2008 Faculty, 41st Annual New York Cardiovascular Symposium Major Topics in Cardiology Today, New York, December 13, 2008 (Cardiac valve disease management: predicting the future today)

2009

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