

Curriculum Vitae

Murray H. Kwon, MD, MBA

ADDRESS:

Office: Division of Cardiothoracic Surgery
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EDUCATION:

High School: Clayton Valley High School
Concord, California
Graduated 1984

Undergraduate: University of California, Berkeley
Berkeley, California
B.A. with Honors 1988

Graduate: Northwestern University Medical School
Chicago, Illinois
M.D. 1996

Kellogg Graduate School of Management
Northwestern University
Evanston, Illinois
M.B.A. 1996

POST GRADUATE:

Intern, General Surgery
Stanford University Medical Center
Stanford, California
July 1, 1996 - June 30, 1997

Resident, General Surgery
Stanford University Medical Center
Stanford, California

July 1, 1997 - June 30, 1998

Post-Doctoral Research Fellow
Stanford University Medical Center
Stanford, California
July 1, 1998 – June 30, 2001

Resident, General Surgery
Stanford University Medical Center
Stanford, California
July 1, 2001 – June 30, 2004

Resident, Cardiothoracic Surgery
Stanford University Medical Center
Stanford, California
July 1, 2004 – June 30, 2007

Fellow, Cardiothoracic Transplantation
UCLA Medical Center
Los Angeles, California
July 1, 2007 - Present

OTHER PROFESSIONAL ACTIVITIES:

Money Market Trader: Traded over \$500 million daily in Interest Rate Swaps, Eurodollar Futures Contracts, and Cash
Fuji Bank Ltd
Tokyo Japan
October 1, 1989 - June 1, 1991

Physician
Novacare Corporation Urgent Care Clinic
Cupertino, California
April 1, 1999 – June 30, 2001

ASSOCIATIONS:

Resident Member, American College of Surgeons, 1999 – present
American Medical Student's Association, 1991-1996

ACADEMIC SERVICE:

Invited Lecturer, Medical Surgery Grand Rounds, Santa Clara Valley Medical Center, February 3, 2004, Blood Transfusion Therapy and its Alternatives
Instructor, Introduction to Clinical Medicine, Stanford University School of Medicine, 1999 - 2000

Instructor, Surgery 300A, Stanford University School of Medicine,
1999-2001
Health Care Management Mentor Program, Kellogg Graduate School of
Management, 1994

HONORS:

Best Moderated Poster, presented at the 27th Annual Surgical
Symposium for the Association of VA Surgeons, Nashville, Tennessee,
May 3-5, 2003

The Paul C. Samson Award for Outstanding Resident Manuscript
presented at the 26th Annual Meeting of the Western Thoracic Surgical
Association, Mauna Lani, Hawaii, June 21-25, 2000

Young Investigator Award, 2nd place, for abstract presented at the 47th
Annual Meeting of the Society of Nuclear Medicine, Cardiovascular
Tract, St. Louis, Missouri, June 4, 2000

Stanford University School of Medicine Dean's Fellowship Award, 2000

American Society of Transplant Surgeons, 1999 Surgical Scientist
Scholarship Award

Resident Vascular Anastomosis Competition, 1st Place, 1998

INDUSTRIAL AFFILIATIONS:

Cellgate, Sunnyvale, California
Scientific Advisory Board, 1998 - 2001

Thesius Imaging Corporation, Cambridge, Massachusetts
Scientific Advisory Board, 1999 - 2001

RESEARCH INTERESTS:

1. The role of caspase mediated apoptosis in acute cardiac rejection.
2. The use of ^{99m}Tc bound Annexin imaging as a novel assay to access for acute cardiac allograft rejection.
3. The use of ^{99m}Tc bound MCP-1 imaging as a novel assay to access for chronic graft vascular disease.
4. Effects of arginine polymers in the upregulation of nitric oxide synthesis in vascular smooth muscle cells.
5. Inhibition of chronic graft vascular disease via arginine polymer mediated upregulation of nitric oxide.

6. Inhibition of vein graft atherosclerosis via arginine polymer mediated upregulation of nitric oxide.
7. Effects of arginine polymer mediated upregulation of nitric oxide on reperfusion injury.
8. Effects of p53 deletion on allograft apoptosis and survival.
9. The efficacy of del-1 angiogenic factor in the development of new vascular growth in a coronary occlusion model.

PUBLICATIONS:

Abstracts and Articles prior to July 1, 2007 are under former surname, Murray H. Kown

Abstracts:

Kwon MH, Moriguchi JD, Plunkett MD, Ardehali A, Beygui RE, Marelli D, Jocson R, Laks H, Shemin RJ, Esmailian F: Impact of Age on Outcomes of Ventricular Assist Devices Utilized as Bridge to Cardiac Transplantation, Accepted for oral presentation at ISHLT 28th Annual Meeting and Scientific Sessions, Boston, MA, April 9-12, 2008

Kown MH, Wren S, Safadi, B: A Comparison of the Utilization of Anti-Reflux Surgery at a Single VA Facility Compared to the National VA Trend, Association of VA Surgeons, 27th Annual Surgical Symposium, Nashville, TN, May 3-5, 2003

Kown MH, Lijkwan MA, Jahncke CL, Murata S, Rothbard, JB, Robbins RC,,: Arginine Polymers Enhance Coronary Flow and Reduce Oxidative Stress Following Cardiac Transplantation in Rats, Poster Presentation, International Society of Heart and Lung Transplantation, Washington D.C. April 10-13, 2002

Kown MH, Suzuki T, Koransky ML, Penta K, Sakamoto G, Jahncke CL, Carter AJ, Quertermous T, Robbins RC: Comparison of the Novel Pro-Angiogenic Developmental Endothelial Locus-1 with Vascular Endothelial Growth Factor in a Porcine Model of Cardiac Ischemia, Oral Presentation, AHA 2001, Anaheim, CA, November 14, 2001

Murata S, Miniati DN, **Kown MH**, Koransky ML, Robbins RC: Elevated cyclic AMP ameliorates ischemia-reperfusion injury in rat cardiac allografts: a novel application of water-soluble forskolin derivative. Presented at Transplant 2001 Joint Meeting, May 2001

Kown MH, Jahncke CL, Miniati DN, Seiichiro M, Blankenberg FG, Strauss HW, Hoyt G, Robbins RC: Adenovirus Mediated BCL-2 Transfection Inhibits Apoptosis in a Rat Heterotopic Heart Transplant Model, Poster Presentation, Transplant 2001, Chicago, IL, May 15, 2001

Miniati DN, Grunenfelder J, Hoyt EG, Murata S, **Kown MH**, Koransky ML, Robbins RC: Oxidative stress of cardiac transplantation is associated with decreased bcl-2 expression and increased NF- κ B activity. Presented at the 21st Annual Meeting and

Scientific Sessions of the International Society for Heart and Lung Transplantation, April 2001

Kown MH, Blankenberg FG, Strauss HW, Hoyt GE, Robbins RC: Tc^{99m} MCP-1 Imaging of Chronic Rejection in Rat Cardiac Allografts, Poster presentation, International Society of Heart and Lung Transplantation, Vancouver Canada, April 26, 2001

Kown MH, Strauss HW, Berry GJ, Blankenberg FG, Robbins RC: *In vivo* Imaging of Acute Cardiac Rejection in Human Patients Using 99mTechnetium Labeled Annexin V, Oral presentation Society of University Surgeons, Chicago IL, February 8, 2001

Grunenfelder J, Miniati DN, Murata S, Falk V, Hoyt EG, **Kown MH**, Koransky ML, Robbins RC: Upregulation of bcl-2 via hyperbaric pressure transfection of TGF- β ameliorates ischemia/reperfusion injury in rat cardiac allografts. Presented at the 37th Annual Meeting of Society of Thoracic Surgeons, January 2001

Grunenfelder J, Miniati DN, Murata S, Hoyt EG, Falk V, **Kown MH**, Koransky ML, Robbins RC: Upregulation of bcl-2 through caspase-3 inhibition ameliorates ischemia/reperfusion injury in rat cardiac allografts. Presented at the American Heart Association 73rd Scientific Sessions, November 2000

Miniati DN, Koransky ML, **Kown MH**, Park AK, Kuo MD, Waugh JM, Woo SL, Dake MD, Robbins RC: Guided remodeling using local overexpression of tissue plasminogen activator prevents neointima formation in arterialized vein grafts. Presented at the American Heart Association 73rd Scientific Sessions, November 2000

Kown MH, Yamaguchi A, Jahncke CL, Miniati D, Rothbard JB, Robbins RC: Arginine Polymers Inhibit Vein Graft Atherosclerosis, Oral presentation, Western Thoracic Surgical Association, Mauna Lani, Kohala Coast, Hawaii, June 24, 2000

Strauss HW, **Kown MH**, Hunt S, Robbins RC, Stafford-Cecil S, Tait JF, Blankenberg FG: Blood Clearance of ^{99m}Tc N₂S₂ Annexin V in Human Subjects, Society of Nuclear Medicine, St. Louis, MO, June 4, 2000

Kown MH, Van der Steenhoven TJ, Blankenberg FG, Hoyt G, Berry GJ, Tait JF, Strauss HW, Robbins RC: 99m Technetium labeled annexin V measures apoptosis in cardiac allografts, Oral presentation, Society of Nuclear Medicine, St. Louis, MO, June 4, 2000

Kown MH, Van der Steenhoven TJ, Jahncke CL, Hoyt G, Rothbard JB, Robbins RC: Arginine Polymers Inhibit Graft Coronary Artery Disease Following Cardiac Transplantation, Oral presentation, American Society of Transplant Surgeons and American Society of Transplantation, Chicago Illinois, May 15, 2000

Kown MH, Van der Steenhoven TJ, Blankenberg FG, Hoyt G, Strauss W, Robbins RC:

Zinc Blocks Cardiac Allograft Apoptosis as Measured by Annexin V Imaging, Oral presentation, American Heart Association, Atlanta Georgia, November 8, 1999

Journal Articles:

Safadi BY, **Kwon MH**, Wren SM: Utilization of Laparoscopic Antireflux Surgery at a Single Veterans Affairs Facility Compared with the Veterans Affairs National Trend, *American Journal of Surgery*, 2003 Nov;186(5):505-8

Kwon MH, Suzuki T, Koransky ML, Penta K, Sakamoto G, Jahncke TL, Carter AJ, Quertermous T, Robbins RC: Comparison of the Novel Angiogenic Factor Developmental Endothelial Locus-1 with Vascular Endothelial Growth Factor in a Porcine Model of Cardiac Ischemia, *Annals of Thoracic Surgery*, 2003 Oct;76(4):1246-51

Kwon MH, Lijkwan MA, Jahncke CL, Murata S, Rothbard JB, Robbins RC: L-Arginine Polymers Enhance Coronary Flow and Reduce Oxidative Stress Following Cardiac Transplantation in Rats, *Journal of Thoracic and Cardiovascular Surgery*, 2003 Oct;126(4):1065-70

Kwon MH, Miniati DN, Jahncke CL, Lijkwan MA, Murata S, Koransky ML, Blankenberg FG, Strauss HW, Robbins RC: Bcl-2 Mediated Inhibition of Apoptosis in Rat Cardiac Allografts Worsens the Development of Graft Coronary Artery Disease, *Journal of Heart and Lung Transplantation*, 2003 Sep;22(9):986-92

Murata S, Miniati DN, **Kwon MH**, Koransky ML, Balsam LB, Lijkwan MA, Martens JM, Robbins RC: Elevated cyclic adenosine monophosphate ameliorates ischemia-reperfusion injury in rat cardiac allografts, *Journal of Heart and Lung Transplantation*. 2003 Jul;22(7):802-9.

Koransky ML, Tavana ML, Yamaguchi A, **Kwon MH**, Miniati DN, Nowlin W, Robbins RC: Quantification of Mechanical Stabilization for the Performance of Off-Pump Coronary Artery Surgery, *Heart Surgery Forum*. 2003;6(4):224-231.

Kwon MH, Murata S, Jahncke CL, Mari C, Berry GJ, Lijkwan MA, Blankenberg FG, Strauss HW, Robbins RC: Donor Cardiac Allografts from p53 Knockout Mice Exhibit Apoptosis Independent Prolongation of Survival, *Transplantation Proceedings*, 2002 Dec;34(8):3274-6

Kwon MH, Jahncke TL, Lijkwan, MA, Koransky ML, Mari C, Berry GJ, Blankenberg FG, Strauss HW, Robbins RC: The Use of ^{99m}Techetium Labeled MCP-1 to Assess Graft Coronary Artery Disease in Rat Cardiac Allografts, *Journal of Heart and Lung Transplantation*, 2002 Sept, 21(9):1009-1015

Kwon MH, Van der Steenhoven TJ, Jahncke CL, Mari C, Koransky ML, Blankenberg FG, Strauss HW, Robbins RC: Zinc chloride Mediated Reduction of Apoptosis as an

Adjunct Immunosuppressive Modality in Cardiac Transplantation, *Journal of Heart and Lung Transplantation*. 2002 Mar; 21(3):360-5

Grunenfelder J, Miniati DN, Murata S, Hoyt EG, Falk V, **Kown MH**, Koransky ML, Robbins RC: Upregulation of bcl-2 through caspase-3 inhibition ameliorates ischemia/reperfusion injury in rat cardiac allografts, *Circulation*. 2001 Sep 18;104(12 Suppl 1):I202-6

Kown MH, Van der Steenhoven T, Uemura S, Jahncke CL, Hoyt GE, Rothbard JB, Robbins RC: L-Arginine Polymer Mediated Inhibition of Graft Coronary Artery Disease Following Cardiac Transplantation, *Transplantation*. 2001 Jun 15;71(11):1542-8

Kown MH, Yamaguchi A, Jahncke CL, Miniati DN, Murata S, Grunenfelder J, Koransky ML, Rothbard JB, Robbins, RC: Arginine Polymers Inhibit the Development of Vein Graft Neointimal Hyperplasia, *Journal of Thoracic and Cardiovascular Surgery*. 2001 May;121(5):971-980.

Robbins RC, **Kown MH**, Portner PM, Oyer PE: The Totally Implantable Novacor Left Ventricular Assist System, *Annals of Thoracic Surgery*. 2001 Mar;71(3 Suppl):S162-5; discussion S183-4.

Kown MH, Strauss HW, Blankenberg FG, Berry GJ, Stafford-Cecil S, Tait JF, Gorris ML, Robbins RC: *In vivo* Imaging of Acute Cardiac Rejection in Human Patients Using ^{99m}Techetium Labeled Annexin V, *American Journal of Transplantation*. 2001;1:270-277

Kown MH, Van der Steenhoven T, Blankenberg FG, Hoyt G, Berry GJ, Tait JF, Strauss HW, Robbins RC: Zinc Mediated Reduction of Apoptosis in Cardiac Allografts, *Circulation*. 2000 Nov 7;102(19 Suppl 3):III228-32.

Book Chapters:

Kown MH, Robbins RC: Controversies Surrounding the Current Status of Heart-Lung Transplantation, *Seminars in Respiratory & Critical Care Medicine*, Vol. 20(5):439-444, 1999

Case Reports:

Kown MH, Luca Vricella L, Salerno CT, Rosenthal DN, Black MD: Adult Presentation of Complete Atrioventricular Septal Defect, *Asian Cardiovascular & Thoracic Annals*, 2002 Dec;10(4):356-8