

BIOGRAPHICAL SKETCH

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NAME Michael D. Dake, MD	POSITION TITLE Professor of Cardiothoracic Surgery and Medical Director, Cath/Angio Laboratories		
eRA COMMONS USER NAME MDD2NNIH			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Harvard College, Cambridge, MA	B.S.	1969-1973	Physical Sciences
Baylor College of Medicine, Houston, TX	M.D.	1978	Medicine
Baylor College of Medicine, Houston, TX	Intern	1978-1979	Internal Medicine
Baylor College of Medicine, Houston, TX	Resident	1979-1982	Internal Medicine
University of California – San Francisco, CA	Fellow	1982-1983	Internal Medicine
University of California – San Francisco, CA	Resident	1983-1986	Radiology
University of California – San Francisco, CA	Fellow	1986-1987	Angiography

A. Positions

1981 – 1982	Instructor, Department of Medicine, Baylor College of Medicine, Houston, TX
1982 – 1983	Clinical Instructor, Department of Medicine, University of California, San Francisco, CA
1986 – 1987	Clinical Instructor, Department of Radiology, Division of Interventional Radiology, University of California
1987 – 1988	Assistant Professor, Department of Radiology, University of California, San Francisco General Hospital
1988 – 1990	Clinical Associate, Department of Radiology, University of Miami, Miami, FL
1988 – 1990	Vascular Radiology, Miami Vascular Institute, Baptist Hospital, Miami, FL
1990	Director, Los Angeles Vascular Institute, The Hospital of the Good Samaritan, Los Angeles, CA
1990 – 1991	Acting Assistant Professor of Radiology and Chief of Cardiovascular-Interventional Radiology, Department of Radiology, Stanford University School of Medicine, Stanford, CA
1990 – 2005	Co-Director of Cath/Angio Laboratories, Stanford University Hospital
1991 – 1997	Assistant Professor of Radiology and Chief of Cardiovascular- Interventional Radiology, Department of Radiology, Stanford University School of Medicine
1991 – 1997	Assistant Professor of Medicine by Courtesy, Department of Medicine, Stanford University School of Medicine
1997 – 2004	Associate Professor of Radiology and Chief of Cardiovascular- Interventional Radiology, Department of Radiology, Stanford University School of Medicine
1997 – 2004	Associate Professor of Medicine by Courtesy, Department of Medicine, Stanford University School of Medicine
2005 – 2008	Professor of Radiology, Internal Medicine (Pulmonary Disease), and Surgery; Chairman of the Department of Radiology and the Harrison Medical Teaching Professor of Radiology, University of Virginia, Charlottesville, VA
9/2/08 – pres.	Professor of Cardiothoracic Surgery, Department of Cardiothoracic Surgery, Stanford University School of Medicine, Stanford, CA
9/2/08 – pres.	Medical Director, Cath/Angio Laboratories, Stanford University Medical Center, Stanford, CA

Honors:

1973	First Class Marshall, Class of 1973, Harvard College
1986	Elmer Ng, M.D. Award: Outstanding Resident in Diagnostic Radiology, University of California, San Francisco
1986 – 1987	Clinical Fellow, American Cancer Society
1986 – 1987	Clarence E. Heller Fellow, University of California, San Francisco
1990 – pres.	Fellow, Council on Cardiovascular Radiology, American Heart Association
1992	Scientific Exhibit Award (Magna Cum Laude), Radiological Society of North America

1993	Scientific Paper Award (Cum Laude), Society of Computed Body Tomography and Magnetic Resonance
1993	Scientific Programme Award (Outstanding Medal), European Congress of Radiology
1993	Scientific Exhibit Award (Cum Laude), European Congress of Radiology
1993	Scientific Exhibit Award (Summa Cum Laude), Radiological Society of North America
1994	Scientific Paper Award (Cum Laude), Society of Computed Body Tomography and Magnetic Resonance
1996	Scientific Exhibit Award (Certificate of Merit), Radiological Society of North America
1998	President's Award, American Roentgen Ray Society
1999	Houndsfield Award, Society of Computed Body Tomography and Magnetic Resonance
2000 – 2002	Nobel Prize Nominator in Physiology or Medicine
2002	Scientific Exhibit Award (Certificate of Merit), European Congress of Radiology
2004	Docteur Honoris Causa (Honorary Doctorate), République Française Université de la Méditerranée (Aix-Marseille); conferred 25 November 2004 in Marseille

United States Patents:

Mark A. Maguire and Michael D. **Dake** United States Patent No. 4295088: Catheter for Uniform Distribution of Therapeutic Fluids. Issued: March 1990

Michael D. **Dake**, and Mark A. Maguire United States Patent No. 4927418: Catheter for Uniform Distribution of Therapeutic Fluids. Issued: May 1990

Michael D. **Dake**, and Mark A. Maguire United States Patent No. 4968307: Catheter for Uniform Distribution of Therapeutic Fluids. Issued November 1990

Michael D. **Dake**, Bruce Hedges and Stephen Oesterle United States Patent No. 5199939: Radioactive Catheter. Issued: April 1993

Michael D. **Dake** and Arthur B. Fontaine United States Patent No. 5527354: Stent Formed of Half-Round Wire. Issued: June 1996

Steve G. Baker, Michael D. **Dake**, David C. Dillow and Arnold Escano United States Patent No. 5693083: Thoracic Graft and Delivery Catheter. Issued: December 1997

George Goicoechea, John Hudson, Claude Mialhe, Andrew H. Cragg and Michael D. **Dake** United States Patent No. 5716365: Bifurcated Endoluminal Prosthesis. Issued: February 1998

George Goicoechea, John Hudson, Claude Mialhe, Andrew H. Cragg and Michael D. **Dake** United States Patent No. 5916263: Bifurcated Endoluminal Prosthesis. Issued: June 1999

George Goicoechea, Claude Mialhe, John Hudson, Andrew H. Cragg and Michael D. **Dake** United States Patent No. 6051020: Bifurcated Endoluminal Prosthesis. Issued: April 2000

George Goicoechea, John Hudson, Claude Mialhe, Andrew H. Cragg and Michael D. **Dake** United States Patent No. 6117167: Endoluminal Prosthesis and System for Joining. Issued: September 2000

George Goicoechea, Claude Mialhe, John Hudson, Andrew H. Cragg and Michael D. **Dake** United States Patent No. 6302906: System for Delivering a Prosthesis. Issued: October 2000

Steve G. Baker, Michael D. **Dake**, David C. Dillow and Arnold Escano United States Patent No. 6346118: Thoracic Graft and Delivery Catheter. Issued: February 2002

Christopher J. Elkins, Michael D. **Dake**, and Jacob M. Waugh United States Patent No. 7048939: Methods for the Inhibition of Neointima Formation. Issued May 2006

Christopher J. Elkins, Michael D. **Dake**, and Jacob M. Waugh United States Patent No. 7056339: Drug Delivery Platform. Issued June 2006

B. Refereed Journal Publications (2004 – current)

Do YS, Kao EY, Ganaha F, Minamiguchi H, Sugimoto K, Lee J, Elkins CJ, Amabile PG, Kuo MD, Wang DS, Waugh JM, **Dake MD**. In-stent restenosis limitation with stent-based controlled-release nitric oxide: initial results in rabbits. *RADIOLOGY* 2004; 230:377-382.

Demers P, Miller DC, Mitchell RS, Kee ST, Chagonjian L, **Dake MD**. Stent-graft repair of penetrating atherosclerotic ulcers in the descending thoracic aorta: mid-term results. ANN THORAC SURG 2004; 77:81-86.

Demers P, Miller DC, Mitchell RS, Kee ST, Sze D, Razavi MK, **Dake MD**. Midterm results of endovascular repair of descending thoracic aortic aneurysms with first-generation stent grafts. J THORAC CARDIOVASC SURG 2004; 127:664-673.

Demers P, Miller C, Scott Mitchell R, Kee ST, Lynn Chagonjian RN, **Dake MD**. Chronic traumatic aneurysms of the descending thoracic aorta: mid-term results of endovascular repair using first and second-generation stent-grafts. EUR J CARDIOTHORAC SURG 2004; 25:394-400.

Dake MD. Aortic intramural haematoma: current therapeutic strategy. HEART 2004; 90:375-378.

Sloss EM, Wickstrom SL, McCaffrey DF, Garber S, Rector TS, Levin RA, Guzy PM, Gorelick PB, **Dake MD**, Vickrey BG. Direct medical costs attributable to acute myocardial infarction and ischemic stroke in cohorts with atherosclerotic conditions. CEREBROVASC DIS 2004; 18:8-15.

Bettmann MA, **Dake MD**, Hopkins LN, Katzen BT, White CJ, Eisenhauer AC, Pearce WH, Rosenfield KA, Smalling RW, Sos TA, Venbrux AC; American Heart Association. Atherosclerotic Vascular Disease Conference: Writing Group VI: Revascularization. CIRCULATION 2004; 109:2643-2650.

Ihnken K, Sze D, **Dake MD**, Fleischmann D, Van der Starre P, Robbins R. Successful treatment of a Stanford type A dissection by percutaneous placement of a covered stent graft in the ascending aorta. J THORAC CARDIOVASC SURG 2004; 127:1808-1810.

van der Starre P, Guta C, **Dake M**, Ihnken K, Robbins R. The value of trans-esophageal echocardiography for endovascular graft stenting of the ascending aorta. J CARDIOTHORAC VASC ANESTH 2004; 18:466-468.

Saketkhoo RR, Razavi MK, Padidar A, Kee ST, Sze DY, **Dake MD**. Novel intravascular ultrasound-guided method to create transintimal arterial communications: initial experience in peripheral occlusive disease and aortic dissection. J ENDOVASC THER 2004; 11:274-280.

Ganaha F, Kao EY, Wong H, Elkins CJ, Lee J, Modanlou S, Rhee C, Kuo MD, Yuksel E, Cifra PN, Waugh JM, **Dake MD**. Stent-based controlled release of intravascular angiostatin to limit plaque progression and in-stent restenosis. JVIR 2004; 15:601-608.

Saketkhoo RR, Sze DY, Razavi MK, Kee ST, Frisoli JK, Semba CP, **Dake MD**. TIPS reduction with use of stents or stent-grafts. JVIR 2004; 15:745-751.

Montague BJ, Kakimoto WM, Arepally A, Razavi M, **Dake MD**, Hofmann LV. Response of balloon-expandable endoprosthetic metallic stents subjected to over-expansion in vitro. CARDIOVASC INTERVENT RADIOL. 2004; 27:158-163.

Saketkhoo RR, Razavi MK, Sze DY, Frisoli JK, Kee ST, **Dake MD**. Stent-graft treatment of extra-cranial carotid and vertebral arterial lesions. JVIR 2004; 15:1151-1156.

Ganaha F, Ohashi K, Do YS, Lee J, Sugimoto K, Minamiguchi H, Elkins CJ, Sameni D, Modanlou S, Ali M, Kao EY, Kay MA, Waugh JM, **Dake MD**. Efficient inhibition of in-stent restenosis by controlled stent-based inhibition of elastase: a pilot study. JVIR 2004; 15:1287-1293.

Kuo MD, Bright IJ, Wang DS, Ghafouri P, Yuksel E, Hilfiker PR, Miniati DN, **Dake MD**. Local resistance to oxidative stress by overexpression of copper-zinc superoxide dismutase limits neointimal formation after angioplasty. J ENDOVASC THER 2004; 11:585-594.

Ohashi K, Waugh JM, **Dake MD**, Yokoyama T, Kuge H, Nakajima Y, Yamanouchi M, Naka H, Yoshioka A, Kay MA. Liver tissue engineering at extrahepatic sites in mice as a potential new therapy for genetic liver diseases. HEPATOLOGY 2005; 41(1):132-140.

Kee ST, Ganguly A, Daniel BL, Wen Z, Butts K, Shimikawa A, Pelc NJ, Fahrig R, **Dake MD**. MR-guided transjugular intrahepatic portosystemic shunt creation with use of a hybrid radiography/MR system. JVIR 2005; 16:227-234.

Sze DY, Magsamen KE, McClenathan JH, Keeffe EB, **Dake MD**. Portal hypertensive hemorrhage from a left gastroepiploic vein caput medusa in an adhered umbilical hernia. JVIR 2005; 16:281-285.

Heikkinen MA, **Dake MD**, Alsac JM, Zarins CK. Multiple HIV-related aneurysms: open and endovascular treatment. J ENDOVASC THER 2005; 12:405-410.

Wang SL, Sze DY, Busque S, Razavi MK, Kee ST, Frisoli JK, **Dake MD**. Treatment of hepatic venous outflow obstruction after piggyback liver transplantation. RADIOLOGY 2005; 236:352-359

Katzen BT, **Dake MD**, MacLean AA, Wang DS. Endovascular repair of abdominal and thoracic aortic aneurysms. CIRCULATION 2005; 13:1663-1675.

Hassoun HT, **Dake MD**, Svensson LG, Greenberg RK, Cambria RP, Moore RD, Matsumura JS. Multi-institutional Pivotal Trial of the Zenith TX2 Thoracic Aortic Stent-Graft for Treatment of Descending Thoracic Aortic Aneurysms: Clinical Study Design. PERSPECT VASC SURG ENDOVASC THER 2005; 17:255-264.

Amabile PG, Wang DS, Kao EY, Lee J, Elkins CJ, Yuksel E, Hilfiker PR, Waugh JM, **Dake MD** Directed migration of smooth muscle cells to engineer plaque-resistant vein grafts. J ENDOVASC THER 2005; 12:667-675.

Dake MD, Wang DS. Will stent-graft repair emerge as treatment of choice for acute type B dissection? SEMIN VASC SURG 2006; 19:40-47.

Hodgson KJ, Matsumura JS, Ascher E, **Dake MD**, Sacks D, Krol K, Bersin R. SVS/SIR/SCAI/SVMB Clinical competence statement on thoracic endovascular aortic repair (TEVAR) – multi-specialty consensus recommendations, a report of the SVS/SIR/SCAI/SVMB Writing Committee to develop a clinical competence standard for TEVAR. JVIR 2006; 17:617-621.

Manno CS, Pierce GF, Arruda VR, Glader B, Ragni M., Rasko JJE; Ozelo MC, Hoots K, Blatt P, Konkle B, **Dake MD**, Kaye R, Razavi M, Zajkoa, Zehnder J, Rostagi P, Nakai H, Chew A, Leondard D, Wright JF, Lessard RR, Sommer JM, Tigges M, Sabatino D, Luk A, Jiang H, Mingozi, Couto L, Ertl HC, High KA, Kay MA. Successful transduction of liver in hemophilia by AAV-Factor IX and limitations imposed by the host immune response. NATURE MED 2006; 12:342-347.

Hodgson KJ, Matsumura JS, Ascher E, **Dake MD**, Sacks D, Krol K, Bersin R. SVS/SIR/SCAI/SVMB Clinical competence statement on thoracic endovascular aortic repair (TEVAR) – multi-specialty consensus recommendations, a report of the SVS/SIR/SCAI/SVMB Writing Committee to develop a clinical competence standard for TEVAR. J VASC SURG 2006; 43:858-862.

van der Starre PJA, Sze DY, Guta C, Mitchell RS, **Dake MD**. Stent-graft repair of an aortic rupture caused by invasive hemangiopericytoma. ANN THORAC SURG 2006; 81.

Wang DS, **Dake MD**, Park JM, Kuo MD. A primer on molecular imaging. JVIR 2006; 17.

Verhoye VP, Mitchell RS, Miller DC, Sze DY, **Dake MD**. Complicated acute Type B dissection: mid-term results of emergency endovascular stent-grafting. J THORAC CARDIOVASC SURG 2006.

C. Research Support

Active

2006 - 2009

Buchanan Endowment Programs, University of Virginia

Delivering Premium Vascular Care to the Community.

Co-Principal Investigator

Completed

1 RO1 HL58915-01 1998 - 2007

NIH-NHLBI

Volumetric Analysis of the Aorta and Its Branches

Co-Investigator

