

## CURRICULUM VITAE

### Personal Information

Name	Daniel S. Schwartz, M.D., F.A.C.S. North Shore Medical Group Mount Sinai School of Medicine Chief of Thoracic Surgery, Huntington Hospital
Specialty	Thoracic Surgery
Academic Appointment:	Assistant Clinical Professor of Cardiothoracic Surgery Mount Sinai School of Medicine
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Date of Birth	March 5, 1963
Place of Birth	New York, NY
Citizenship	United States

### Education

High School	Teaneck High School Teaneck, New Jersey, 1981
Undergraduate	Washington University in St. Louis, St. Louis, Biology, Cum Laude, B.A., 1985
Medical School	State University of New York-Downstate Medical Center, New York, M.D., Honors in Medicine and Surgery, 1989
Internship	Montefiore Medical Center/Albert Einstein College of Medicine, New York, Intern General Surgery, 1989-1990
Residencies	Montefiore Medical Center/ Albert Einstein College of Medicine, New York, Resident General Surgery, 1990-93  Montefiore Medical Center/ Albert Einstein College of Medicine, New York, Chief Resident General Surgery,

1993-1994

New York University Medical Center  
New York, Resident Cardiothoracic and Vascular  
Surgery, 1996-1997

New York University Medical Center  
Chief Resident Cardiothoracic and Vascular Surgery,  
1997-1998

Fellowships

New York University Medical Center  
New York, Research Fellow Cardiovascular Surgery,  
1994-1996

University of California Los Angeles  
Los Angeles, Fellow Thoracic Surgery, 2004-2005

Honors & Awards

National

Merle Wood Scholar of the Andrew G. Morrow Society, 1996  
Sampson Award, Western Thoracic Surgical Association, 1996  
Bristol Award, American College of Cardiology, 1997  
American College of Rectal and Colon Surgeons Travel  
Scholarship, 1992

Medical School Honors

Granted the Distinction of Honors in Surgery, 1988 and 1989  
Granted the Distinction of Honors in Cardiovascular Surgery, 1989  
Granted the Distinction of Honors in Diagnostic Radiology, 1988  
Granted the Distinction of Honors in Medicine, 1988

Undergraduate Honors

Graduated Cum Laude from Washington University, 1985  
Graduated with Honors from the Department of Biology, 1985

Licensure

California (G84746)  
New York (182577)

Board Certifications

1990 National Board of Medical Examiners (3-367-452-4)

Diplomat of the American Board of Surgery (44339) 1999  
American Board of Thoracic Surgery (6443) 2000

## Professional Background

### Academic Appointments

Assistant Clinical Professor of Cardiothoracic Surgery  
Mount Sinai School of Medicine 2008- present

Assistant Clinical Professor of Cardiothoracic Surgery  
New York University Medical Center 2005- 2008

Clinical Instructor of Surgery, Department of Surgery, Division of Thoracic  
Surgery, University of California, Los Angeles 2004- 2005

Assistant Professor, Department of Cardiothoracic Surgery  
University of Southern California, School of Medicine, 1998- 2004

Instructor in Surgery, Department of Surgery  
New York University Medical Center, 1994-96

Clinical Instructor in Surgery, Department of Surgery  
North Central Bronx Hospital-An Affiliate of Montefiore Medical Center, 1994-96

Chief Resident in General Surgery, Department of Surgery  
Montefiore Medical Center and Albert Einstein College of Medicine, 1993-1994

Chief Resident in Cardiothoracic Surgery, Department of Surgery  
New York University Medical Center, 1997-1998

Teaching Assistant in Molecular Genetics and Mycology  
Washington University 1984-85

### Hospital Appointments

Huntington Hospital  
270 Park Ave  
Huntington, New York 11743

Mount Sinai School of Medicine

1190 Fifth Avenue  
New York, NY 10029

North Shore University Hospital  
300 Community Drive  
Manhasset, New York 11030

Long Island Jewish Medical Center  
400 Lakeville Road  
New Hyde Park, New York 11040

## Society Memberships

### National

American College of Surgeons, Fellow 2001 (03015822)  
Western Thoracic Surgical Association, Member 2001  
Andrew G. Morrow Society, Member 1996  
Society of Thoracic Surgeons, Member 2001  
American College of Cardiology, Affiliate 1997  
Association of Academic Surgery, Member 1998  
American Medical Association, Member 1990 (03508891741)  
American Heart Association, Cardiovascular Scientific Council Member 1999  
American Heart Association, Fellow 2002  
American College of Chest Physicians, Fellow 2000  
American Diabetes Association, Professional Section, 2000  
American Association for the Advancement of Science, Member 2000

### Regional

Southern California Chapter of the ACS, Member 2001  
Los Angeles Surgical Society, 2002  
Frank Spencer Surgical Society, 1998  
Los Angeles Heart Institute, Member 1999-2000  
Los Angeles County Medical Association, Member  
New York Society of Thoracic Surgery, Candidate 1995

## Research

### Experience

**2002-2004**

Principal investigator studying the induction of genes by HIF-1 in both an acute and chronic cardiac ischemia model. In an in-vitro model we will study the expression of all of the genes regulated by hypoxia in cardiac myocytes with particular attention to those involved in anaerobic metabolism. We anticipate seeking funding from the American Heart Association once preliminary data is acquired. USC- Keck School of Medicine.

**2001-2004**

Principal Investigator for clinical trial called, Atrial Septal Defect Closure Using the Da Vinci Robotic Surgical System. This multicenter trial will evaluate the use of robot assisted surgery for the repair of atrial septal defects. USC- Keck School of Medicine.

**2002 - 2004**

Aortic Valve Replacement using the Intuitive daVinci Surgical System  
A feasibility study to demonstrate robotic assisted aortic valve replacement. Currently applying for an investigator sponsored FDA IDE. USC- Keck School of Medicine.

**2001- 2002**

Principal Investigator for the clinical trial utilizing the Da Vinci Robotic Surgical System for Mitral Valve Repair. A multicenter FDA trial that evaluated the use of robot assisted surgery for the repair of mitral regurgitation. USC- Keck School of Medicine.

**2000-2001**

Principal investigator studying the effects of venous congestion during coronary artery occlusion. This research is performed in an animal model and is directly applicable to human beating heart surgery. This research is in part a Center of Excellence Grant from Medtronic. USC- Keck School of Medicine.

**1999-2001**

Principal Investigator for the Aortic Comparative Trial ("ACT"). This is a multi-center trial whose purpose is to compare the hemodynamic performance and adverse effects in a long-term clinical evaluation of the Toronto SPV valve manufactured by St. Jude Medical Heart Valve Division, and the Carpentier-Edwards Pericardial RSR Valve manufactured by Baxter Healthcare. Fully funded with a grant from St. Jude Medical. USC- Keck School of Medicine.

**1998-2000**

Principal investigator studying the myocardial protective effects of regional

topical hypothermia in a model of minimally invasive beating heart surgery. This research is performed in an animal model and is directly applicable to human surgery. This research is in part sponsored by a Seed Grant from the University of California School of Medicine as well as a Center of Excellence Grant from Medtronic, Inc. USC- Keck School of Medicine.

**1994-1996**

Principal investigator studying a model of minimally invasive cardiac surgery including coronary artery bypass grafting and mitral valve repair and replacement and other related procedures in both humans and animals. Designed and performed a series of basic large animal studies testing the feasibility and efficacy of minimally invasive cardiac surgery, both for coronary artery bypass grafting and mitral valve surgery, using an in vivo canine model. These experimental studies helped establish the scientific basis for minimally invasive "port- access" cardiac surgery, leading to clinical trials. Similar basic work is ongoing in other areas of minimally invasive cardiac surgery, and this program represents a major effort of our cardiac surgical research laboratory. New York University School of Medicine, New York.

**1995-1996**

Designed and performed a series of studies evaluating the systemic inflammatory response syndrome (SIRS) related to extra-corporeal circulation, shock, trauma and other surgical diseases. These studies measured the activation of cytokines and the up regulation (or "priming") of white blood cells for supraoxide release, events which occur from this damaging inflammatory process may lead to multiple organ dysfunction after open heart surgery. This may be due to the interaction with the blood with the bypass circuit during cardiopulmonary bypass. Therapeutic strategies to minimize the body's inflammatory response to injury have been developed and are undergoing active evaluation. New York University School of Medicine, New York.

**1994-1996**

The role of the enzyme sterol 27-Hydroxylase in vascular arteriosclerosis has been studied in-depth. These are collaborative studies with Dr. Norman Javitt and Dr. Allison Reiss, who are the principal investigators of this work. The surgical arm of this study is to compare 27-Hydroxylase levels in atherogenic and non-atherogenic arteries and veins, using PCR. These studies are aimed at determining the relative risk of atherosclerotic progress in CABG patients. New York University School of Medicine, New York.

**1992-1994**

Principal Investigator studying the role of the inferior epigastric artery as a conduit for coronary artery bypass grafting. Under the direction of Richard

Brodman, M.D. Albert Einstein College of Medicine, New York.

**1983-1985**

Independent research involving the development of DNA probes for the molecular epidemiology and early diagnosis of Mycobacterium leprae infections. Under the direction of Roy Curtiss, III, Phd. Washington University, St. Louis.

**1983**

Research assistant in the Anxiety Clinic studying lactate induced panic attacks. Under the direction of Michael Leibowitz, M.D. Columbia University School of Medicine, New York.

Grants

**1998-1999**

Seed Grant from the University of Southern California School of Medicine for young investigators. \$10,000.

**1998-2004**

Medtronic, Inc. Center of Excellence Grant awarded to the Department of Cardiothoracic Surgery for continued work in the area of Minimally Invasive Heart Surgery. Renewable Annually. \$165,000.

**2001-2004**

NIH Grant (R21 AI49922-01) Use of Gene Therapy to Induce Transplantation Tolerance. \$50,000 per year. Coinvestigator. Principal Investigator Mary Kearns, Ph.D.

Editorial

**1997**

Ad Hoc Editor, Annals of Thoracic Surgery

**1997**

Ad Hoc Editor, Journal of Thoracic and Cardiovascular Surgery

**2000**

Medical Editor, E-medicine Pediatric Cardiothoracic Surgery

Commercial Committees

**2000-2001**

Member, HEM-0115 Safety Endpoint Evaluation Committee  
Clinical Event Validation and Adjudication Services at Quintiles

2002- 2005

Data Safety Monitoring Board TGC-0001 (PIVOTAL)

Quintiles

## Bibliography

### Publications:

1. **Schwartz DS**, Schwartz JD, Factor SM, Petrossian E, Blitz A, McLoughlin D, Tellis V, Frame R, Brodman RF. Histological Evaluation of the Inferior Epigastric Arteries. *European Journal of Cardiothoracic Surgery*. 6(8);438-41, 1992
2. **Schwartz DS**, Petrossian E, Brodman RF, Frame R, Schwartz JD, Blitz A, McLoughlin DE, Levenson SM. Wound Healing after Harvesting the Internal Thoracic and Superior and Inferior Epigastric Arteries. *Annals of Thoracic Surgery* 57(5): 1252-5, 1994
3. **Schwartz DS**, Gwertzman G, Kaleya RN, Gliedman ML. Laparoscopic Unroofing of Multiple benign Liver Cysts with Intraperitoneal Drainage: A Case Report. *Journal of Laproendoscopic Surgery* 4(2): 157-60, 1994
4. Blitz A, McLoughlin D, Gross J, **Schwartz DS**, Fisher JD, Kim SG, Frame R, and Brodman RF. Combined Maze Procedure and Septal Myomectomy in a Septuagenarian. *Annals of Thoracic Surgery* 54(2): 364-5, 1992
5. McLoughlin D, Blitz A, Simmons J, Brodman RF, Frame R, Bator S, Adams J, **Schwartz DS**, Furman S, Fisher JD. Electrophysiology effect of the Maze Procedure on Canine Sinoatrial Node Function. *Pace*. 15(11 Pt 2): 2084-91, 1992
6. Grossi EA, Kanchugar MS, **Schwartz DS**. Effect of cannula length on aortic arch flow: Protection of the athromatous aortic arch. *Annals of Thoracic Surgery* 1995;59:710-2
7. Grossi EA, Chinitz LA, Galloway AC, Delianides J, **Schwartz DS**, McLoughlin DE, Keller N, Kronzon I, Spencer FC. Endoventricular remodeling of left aneurysms. Functional, clinical and electrophysiological results. *Circulation* 1995; 92-(9Suppl): 1198-100.
8. Steinberg BM, Grossi EA, **Schwartz DS**. Heparin bonding of bypass circuits reduces cytokine release during cardiopulmonary bypass. *Annals Thoracic Surgery* 1995; 60(3): 525-9
9. Galloway AC, **Schwartz DS**, Culliford AT. Selective Approach to descending thoracic aneurysm repair: A ten year experience. *Annals of Thoracic Surgery* 1996; 62(4): 1152-7
10. **Schwartz DS**, Ribakove GH, Grossi EA. Minimally invasive cardiopulmonary bypass

- with cardioplegic arrest: a closed chest technique with equivalent myocardial protection. *Journal of Thoracic and Cardiovascular Surgery* 1996; 111(3): 556-66
11. Schwartz DS, Ribakove GH, Grossi EA. Minimally invasive mitral valve replacement: Port-Access technique, feasibility, and myocardial functional preservation. *Journal of Thoracic and Cardiovascular Surgery* 1997; 113(6): 1022-31
  12. Schwartz DS, Ribakove GH, Grossi EA. Multi-vessel Port-Access coronary artery bypass grafting with cardioplegic arrest: Technique and reproducibility. *Journal of Thoracic and Cardiovascular Surgery* 1997; 114:46-52
  13. Schwartz JD, Shammamian P, Grossi EA, Schwartz DS, Marcus SG. Lexipafant inhibits platelet activating factor enhanced neutrophil functions. *Journal of Surgical Research* 1997; 69: 240-8
  14. Gross EA, Galloway AC, Kallenbach K, Miller JS, Esposito R, Schwartz DS, Colvin SB. Early results of posterior leaflet folding plasty for mitral valve reconstruction. *Ann Thoracic Surg* 65: 4, 1057-9, April 1998
  15. Reiss, A.B. Grossi, E.A., Patel, S.S., Iyer, S., Pasternack, P.F., Schwartz, D.S., Baumann, F.G., Javitt, N.B., Colvin, S.B., and Galloway, A.C.: Detection of cholesterol regulating sterol 27-Hydroxylase enzyme in human monocytes by polymerase chain reaction (PCR). *J Lipid Res*, In press.
  16. Applebaum RM. Cutler WM. Bhardwaj N. Colvin SB. Galloway AC. Ribakove GH. Grossi EA. Schwartz DS. Anderson RV. Tunick PA. Kronzon I. Utility of transesophageal echocardiography during port-access minimally invasive cardiac surgery. *American Journal of Cardiology*. 1998; 82(2):183-8
  17. Schwartz JD. Shamamian P. Schwartz DS. Grossi EA. Jacobs CE. Steiner F. Minneci PC. Baumann FG. Colvin SB. Galloway AC. Cardiopulmonary bypass primes polymorphonuclear leukocytes. *Journal of Surgical Research*. 1998;75(2):177-82
  18. Uppal K. Nuno IS. Schwartz DS. Right Ventricular Outflow Tract Obstruction from Endocarditis. *Ann Thorac Surg*. 2000;70:2158-9.
  19. Schwartz, DS. Bremner, RM. Baker, C. Uppal, KM. Barr, ML Cohen, RG. Starnes, VA. Regional Topical Hypothermia of the Beating Heart: Preservation of Function and Tissue. *Ann Thorac Surg*. 2001;72:804-9
  20. Mamoud Malas, M.D., Mark Barr, M.D., Vaughn A. Starnes, M.D., Shelly Shapiro, M.D., Suzanne Palmer, M.D., Daniel S. Schwartz, M.D. Dyspnea Lusoria: Compression of the Pulmonary Artery by a Kommerell's diverticulum. *Ann Thorac*

Surg. 2002;73:312-313.

21. Nigro, JJ. **Schwartz, DS**, Bard, RD, et al. Neochordal Repair of the Posterior Mitral Valve Leaflet. J Thorac Cardiovasc Surg. 2004 Feb;127(2):440-7.  
Chapters:
  1. Aubrey C. Galloway, M.D., **Daniel S. Schwartz, M.D.** Cardiac Surgery: Principles and Technique: Acquired Diseases of the Mitral Valve. In Press
  2. Eugene Grossi, M.D., Greg Ribakove, M.D., **Daniel Schwartz, M.D.** Port-Access Approach for Minimally Invasive Mitral Valve Surgery. In: Operative Techniques in Cardiac and Thoracic Surgery: A Comparative Atlas, Cox and Sundt eds., W.B Saunders, Philadelphia, PA, 1998.
  3. **Daniel S. Schwartz, M.D.**, Michael Mack, M.D., Robbin Cohen, M.D. Port-Access Coronary Artery Bypass Grafting. In: Minimally Invasive Cardiac Surgery, Cohen, Mach and Fonger, eds., Quality Medical Publishing, St. Louis, MO, 1999.
  4. **Daniel S. Schwartz, M.D.** and Robert B. Cameron, M.D. Current Concepts in the Staging of Patients with Lung Cancer. In press.

Abstracts

1. **Schwartz DS**, Ribakove GH, Grossi EA. Minimally invasive mitral valve replacement: Port-Access technique, feasibility, and myocardial functional preservation. Journal of Thoracic and Cardiovascular Surgery. June 1996.
2. **Schwartz DS**, Ribakove GH, Grossi EA. Multi-vessel Port-Access coronary artery bypass grafting with cardioplegic arrest: Technique and reproducibility. American Heart Association, New Orleans, November 1996
3. McLoughlin D, Blitz A, Simmons J, Brodman RF, Frame R, Bator S, Adams J, **Schwartz DS**, Furman S, Fisher JD. Electrophysiology effect of the Maze Procedure on Canine Sinoatrial Node Function." *Cardiochem*, Niece, June 1993
4. Reiss, A.B. Grossi, E.A., Patel, S.S., Iyer, S., Pasternack, P.F., **Schwartz, D.S.**, Baumann, F.G., Javitt, N.B., Colvin, S.B., and Galloway, A.C.: Detection of cholesterol regulating sterol 27-Hydroxylase enzyme in human monocytes by polymerase chain reaction (PCR). *J Lipid Res*, 1997.
5. Grossi EA, Chinitz L, Galloway AC, **Schwartz DS**, Delianides J, Kronzon I, Spencer FC, Colvin SB: Endoventricular Remodeling for LV Aneurysm: Functional and Electrophysiological Results. *Circulation* XX (X, Part II): 29.I-XXX, 1994.

6. Reiss A, Martin K, Javitt N, Rojer D, Iyer S, Schwartz DS, Grossi EA, Galloway AC: Mitochondrial sterol 27-hydroxylase expression and catalytic activity in human arterial endothelium. *Advances in Gene Technology: Molecular Biology and Human Disease. Proceedings of the 1994 Miami Bio/Technology Winter Symposium. Short Reports* 6:63, 1995.
7. Schwartz JD, Shammamian P, Grossi EA, Schwartz DS, Marcus SG. Lexipafant inhibits platelet activating factor enhanced neutrophil functions. *Journal of Surgical Research* 1997
8. Gross EA, Galloway AC, Kallenbach K, Miller JS, Esposito R, Schwartz DS, Colvin SB. Early results of posterior leaflet folding plasty for mitral valve reconstruction. *Ann Thoracic Surg* April 1998
9. Grossi EA, Kanchugar MS, Schwartz DS. Effect of cannula length on aortic arch flow: Protection of the athromatous aortic arch. *Annals of Thoracic Surgery* 1995
10. Grossi EA, Chinitz LA, Galloway AC, Delianides J, Schwartz DS, McLoughlin DE, Keller N, Kronzon I, Spencer FC. Endoventricular remodeling of left aneurysms. Functional, clinical and electrophysiological results. *Circulation* 1995.
11. Steinberg BM, Grossi EA, Schwartz DS. Heparin bonding of bypass circuits reduces cytokine release during cardiopulmonary bypass. *Annals Thoracic Surgery* 1995

#### **Presentations:**

1. "The evolution of heart surgery from minimally invasive to robotics", Los Angeles Times Festival of Health. Invited Guest. Los Angeles, October 2001.
2. "Regional Topical Hypothermia of the Beating Heart: Preservation of Function and Tissue." Presented at the Thirty-seventh Annual Meeting of The Society of Thoracic Surgeons, New Orleans, Louisiana, January 29-31, 2001
3. "Advances in Cardiac Surgery, Off-Pump Coronary Artery Bypass." USC Keck School of Medicine, November 2000.
4. "How to have a Healthy Heart: The Surgical Aspects", Los Angeles Times Festival of Health. Invited Guest. Los Angeles, September 2000.

5. "The Evolution & Selective Application of Minimally Invasive Coronary Artery Bypass Surgery." American Heart Association, Western Affiliate. Invited Guest. Los Angeles, October 1999.
6. "Minimally invasive mitral valve replacement." New York Society for Thoracic Surgery, New York, April 1996. Paul C. Sampson Award for Best Manuscript and Presentation.
7. "Multi-vessel Port-Access coronary artery bypass grafting with cardioplegic arrest: Technique and reproducibility." American Heart Association, New Orleans, November 1996
8. "Minimally invasive cardiopulmonary bypass with cardioplegic arrest: A Closed chest technique with equivalent myocardial protection." New York Society for Thoracic Surgery. New York, November 1995.
9. "Descending Thoracic Aneurysm Repair." New York Society for Thoracic Surgery, New York, February 1995
10. "Wound Healing after Harvesting the Internal Thoracic and Superior and Inferior Epigastric Arteries." New York Society for Thoracic Surgery, New York, New York, November 1993
11. "Electriophysiology effect of the Maze Procedure on Canine Sinoatrial Node Function." *Cardiostem*, Niece, June 1993
12. "The Development of DNA Probes for the Molecular Epidemiology and Early Diagnosis of Mycobacterium leprae infections." Biology Honors Thesis, St. Louis, April 1989
13. "Lung Cancer" Southside Hospital. New York, September 2006
14. "Update on the Staging of Lung Cancer" Current Thoracic Surgical Symposium. New York, November 2006
15. "Carcinoma of the Esophagus: Minimally Invasive Esophagectomy" Long Island Jewish Grand Rounds December 2006.
16. "Dangerous Blood Clots: Pulmonary Embolectomy" Good Samaritan Hospital New York December 2006.
17. "Management of Barrett's Esophagus: General Surgery Update:2006" Long Island Jewish GI Grand Rounds. September 2005

18. "Thoracoscopic/Laprascopic Esophagectomy: A Three Hole Approach" Huntington Hospital Grand Rounds. September 2007
19. "Benign Mesothelioma" \_Huntington Hospital Grand Rounds. October 2007
20. "Lung Cancer Staging" Huntington Hospital Multidisciplinary Thoracic Oncology Program September 2008