CURRICULUM VITAE

Michael Peter Fischbein, M.D., Ph.D.

EDUCATION

1995	M.D.	Cum Laude Boston University School of Medicine
2001	Ph.D.	Microbiology and Immunology University of California, Los Angeles
1990	B.S.	Kinesiology University of California, Los Angeles

DOCTORAL DISSERTATION: Mechanisms of Chronic Rejection in Heart Transplants: The Role of T lymphocyte Subsets (2001)

POST-GRADUATE TRAINING

7/03- 6/06	Resident, Cardiothoracic Surgery, Stanford University
7/02 – 6/03	Chief Resident; Department of Surgery, University of California, Los Angeles
7/00 – 7/02	Senior Resident; Department of Surgery, University of California, Los Angeles
7/97 – 7/00	Research Resident; Department of Surgery, University of California, Los Angeles
7/96 – 7/97	Junior Resident; Department of Surgery, University of California, Los Angeles
7/95 – 7/96	Intern; Department of Surgery, University of California, Los Angeles

ACADEMIC APPOINTMENTS

7/06 – 9/07	Clinical Instructor Department of Cardiothoracic Surgery Stanford University School of Medicine
9/07- 3/08	Acting Assistant Professor of Surgery Department of Cardiothoracic Surgery Stanford University School of Medicine
3/08 – current	Assistant Professor of Surgery Department of Cardiothoracic Surgery Stanford University School of Medicine

HONORS AND AWARDS

2003	Golden Scalpel Award for Teaching Excellence Division of General Surgery UCLA School of Medicine
2003	Ronald K. Tompkins Golden Apple Teaching Award UCLA School of Medicine
2003	Donald Morton Research Award Department of Surgery UCLA School of Medicine
2002	Administrative Chief Resident Department of Surgery University of California, Los Angeles
2001	AVENTIS Scholarship Recipient
2000	Caves Scientific Award International Society for Heart and Lung Transplantation Osaka, Japan
1999	American Society of Transplant Physicians Scientific Poster of Distinction Award
1997	UCLA STAR (Specialty Training and Advanced Research) Program Research Fellowship
1995	Cum Laude Graduate Boston University School of Medicine

1994	Alpha Omega Alpha Boston University School of Medicine

PROFESSIONAL MEMBERSHIP

1995	Candidate, American College of Surgeons
2007	American Heart Association
2007	International Society of Heart and Lung Transplantation
2007	Longmire Surgical Society
2008	Society of Thoracic Surgeons

LICENSURE AND CERTIFICATION

1997	California State Medical Licensure
2004	American Board of Surgery
2007	American Board of Thoracic Surgery

INVITED LECTURES

1/08	Valve-Sparing Aortic Root Replacement: Tirone David V Stanford Modification. Society of Thoracic Surgeons Fort Lauderdale, Florida
10/07	Surgical Interventions in Heart Failure: Repair, Restore, or Replace Cardiovascular Nursing Symposium Palo Alto, California
5/00	IL-10 Transgene Prevents Cardiac Allograft Vasculopathy. American Society of Transplantation, Chicago, Illinois
4/00	Immune Mechanisms in Chronic Rejection of Heart Transplantation. UCLA Department of Surgery Grand Rounds

4/00 Signaling Through CD40 Can Replace the Requirements of $CD4^+$ Lymphocytes in Cardiac Allograft Vasculopathy. International Society for Heart and Lung Transplantation, Osaka, Japan

4/00 $CD4^+$ Helper Function is Delivered Via the Secretion of IFN-γ. International Society for Heart and Lung Transplantation, Osaka, Japan

1/00 Immune Mechanisms in Chronic Rejection of Transplanted Hearts. American College of Surgeons-Los Angeles Chapter
Huntington Beach, CA

10/99 Chronic Rejection in Heart Transplantation Requires CD40L-CD40 Engagement. American College of Surgeons
San Francisco, CA

4/99 Temporal Pattern of T Lymphocyte and Macrophage Infiltration in a Nonimmunosuppressed Model of CAV.
International Society for Heart and Lung Transplantation,
San Francisco, CA

4/99 The Role of $CD4^+$ Lymphocytes in CAV. UCLA Division of Cardiothoracic Surgery Grand Rounds

6/98 Experimental Cardiac Allograft Vasculopathy in Mice. UCLA Division of Cardiothoracic Surgery Grand Rounds

9/97 Immunology of Accelerated Graft Atherosclerosis. UCLA Division of Cardiothoracic Surgery Grand Rounds

ABSTRACTS

1. Meyers BF, **Fischbein MP**, Donohue DM, Wain JC. Characterization of Decreased DNA Methylation in Non-Small Cell Lung Carcinoma with a Repeated Sequence Oligonucleotide. American Review Respiratory Disease 1993; A154:147.

2. **Fischbein MP**, Yun JJ, Laks H, Fishbein MC, Espejo M, Ebrahimi K, Bonavida B, Ardehali A. Temporal Pattern of T Lymphocyte and Macrophage Infiltration in a Nonimmunosuppressed Model of CAV. Journal of Heart and Lung Transplantation, 1999.

3. Yun JJ, **Fischbein MP**, Fishbein MC, Laks H, Espejo M, Ardehali A. Reperfusion Induces MCP-1/JE, MIP-2 gene up-regulation and cellular

recruitment in transplanted hearts. Society of University Surgeons 60th Meeting, 2/99.

4. **Fischbein MP**, Yun JJ, Laks H, Fishbein MC, Ardehali A, Bonavida B. CD8+ T Cells Participate in Cardiac Allograft Vasculopathy.
The FASEB Journal, 1999; 13(6), A1128.

5. Yun JJ, **Fischbein MP**, Laks H, Fishbein MC, Espejo ME, Ebrahimi K, Ardehali A. Lymphotactin Mediates T Cell Recruitment in Cardiac Allograft Vasculopathy. The FASEB Journal, 1999; 13(6), A818.

6. Yun JJ, **Fischbein MP**, Laks H, Fishbein MC, Espejo ME, Ebrahimi K, Ardehali A. Chemokine Expression and Cellular Infiltrate in Cardiac Allograft Vasculopathy. Transplantation, 67(7), April 1999.

7. Yun JJ, **Fischbein MP**, Laks H, Fishbein M, Hermat F, Espejo M, Ardehali A. Chemokines MIP-2 and MCP-1/JE Mediate Leukocyte Recruitment After Reperfusion. Transplantation, 67(7), April 1999.

8. Yun JJ, **Fischbein MP**, Laks H, Fishbein M, Shiroishi M, Ardehali A. Ischemia Time Prolongation Does Not Promote Chemokine Gene Expression or Leukocyte Recruitment After Heart Transplantation.
American Society of Transplantation, Chicago, IL, May 1999.

9. **Fischbein MP**, Yun J, Laks H, Fishbein MC, Ebrahimi K, Bonavida B, Ardehali A. $CD4^+$ T Lymphoyctes are Necessary for Development of Cardiac Allograft Vasculopathy. American Society of Transplantation, Chicago, IL, May 1999.

10. **Fischbein MP,** Yun J, Laks H, Fishbein MC, Espejo M, Bonavida B, Ardehali A. Chronic Rejection in Heart Transplantation Requires CD40L-CD40 Engagement. American College of Surgeons, San Franciscio, CA, Oct 1999.

11. Yun J, **Fischbein MP**, Laks H, Fishbein MC, Espejo M, Ebrahimi K, Ardehali A. Cardiac Allograft Vasculopathy is a TH-1 Ctyokine Dependent Process.
American College of Surgeons, San Franciscio, CA, Oct 1999.

12. **Fischbein MP**, Yun J, Laks H, Fischbein MC, Bonavida B, Ardehali A. Immune Mechanisms in Chronic Rejection of Transplanted Hearts. American College of Surgeons-Southern California Chapter, Laguna Beach, CA, 1/00.

13. **Fischbein MP**, Yun J, Laks H, Irie Y, Fishbein MC, Espejo M, Bonavida B, Ardehali A. Signaling Through CD40 Can Replace the Requirements of CD4+ Lymphocytes in Cardiac Allograft Vasculopathy
ISHLT, Osaka, Japan, April 2000.

14. **Fischbein MP**, Yun J, Laks H, Irie Y, Fishbein MC, Espejo M, Bonavida B, Ardehali A. $CD8^+$ Lymphocytes Accentuate Cardiac Allograft Vasculopathy Via Crosspriming. ISHLT, Osaka, Japan, April 2000.

15. **Fischbein MP**, Yun J, Laks H, Irie Y, Fishbein MC, Espejo M, Bonavida B, Ardehali A. $CD4^+$ Helper Function is Delivered Via the Secretion of IFN-γ. ISHLT, Osaka, Japan, April 2000.

16. Yun J, **Fischbein MP**, Laks H, Fishbein MC, Espejo M, Irie Y, Berliner J, Ardehali A. Intragraft $CD4^+$, $CD8^+$ T Cells are not Required for RANTES Production Early in Cardiac Allograft Vasculopathy. ISHLT, Osaka, Japan, April 2000.

17. **Fischbein MP**, Yun JJ, Laks H, Irie Y, Fishbein MC, Espejo M, Bonavida B, Ardehali A. IL-10 Transgene Prevents Cardiac Allograft Vasculopathy. Transplant 2000 Meeting, Chicago, May 2000.

18. Yun J, **Fischbein MP**, Laks H, Fishbein MC, Espejo M, Irie Y, Berliner J, Rajavashisth T, Ardehali A. CSF-1 Deficiency Accelerates Rejection of Cardiac Allografts. Transplant 2000 Meeting, Chicago, May 2000.

19. Yun J, **Fischbein MP**, Laks H, Fishbein MC, Espejo M, Irie Y, Berliner J, Ardehali A. RANTES Production Parallels Leukocyte Recruitment in MHC I and MHC II Cardiac Allografts. Transplant 2000 Meeting, Chicago, May 2000.

20. **Fischbein MP**, Yun J, Laks H, Irie Y, Fishbein MC, Espejo M, Bonavida B, Ardehali A. Signaling Through CD40 Can Replace the Requirements of $CD4^+$ Lymphocytes in Cardiac Allograft Vasculopathy.
American Heart Association, Young Investigators Forum, June 13, 2000.

21. Yun J, **Fischbein MP**, Laks H, Fishbein MC, Espejo M, Irie Y, Berliner J, Ardehali A. $CD3^+/CD4^-/CD8^-$ Lymphocyte Entry Precedes RANTES Production in CAV. American Heart Association, Young Investigators Forum, June 13, 2000.

22. Pinkderski L, **Fischbein MP**, Subbanagounder G, Kubo N, Fishbein MC, Curtiss L, Berliner J, Boisvert. IL-10 Overexpression Decreases Atherosclerosis in LDL Receptor Deficient Mice by Altering T Cell Phenotypes. American Heart Association, Young Investigators Forum, June 13, 2000.

23. **Fischbein MP**, Yun J, Laks H, Irie Y, Fishbein MC, Wortham C, Bonavida B, Ardehali A. $CD8^+$ lymphocytes Participate in the Development of Chronic Rejection. Journal of Heart and Lung Transplantation 2001; 20 (2):228.

24. Yun JJ, **Fischbein MP**, Laks H, Fishbein MC, Irie Y, Streiter R, Berliner JA, Ardehali A. Sustained Production of the Chemokine MIG Precedes Intimal

Thickening in Chronic Rejection. Journal of Heart and Lung Transplantation 2001; 20 (2) 156.

25. Yun JJ, **Fischbein MP**, Laks H, Fishbein MC, Irie Y, Espejo M, Berliner JA, Ardehali A. Sustained Rantes is Necessary for CAV Development. Journal of Heart and Lung Transplantation 2001; 20 (2) 185.

26. Yun J, **Fischbein MP**, Laks H, Fishbein MC, Espejo M, Berliner J, Ardehali A. Production of the Chemokine RANTES in Transplant Coronary Artery Disease. American College of Surgeons, Southern California Chapter, Santa Barbara, CA. January 2001.

27. Yun J, **Fischbein MP**, Laks H, Fishbein MC, Wortham C, Irie Y, Ardehali A. Cross-priming in chronic rejection. American Society of Transplantation, Chicago, IL. May 2001.

28. Yun J, **Fischbein MP**, Laks H, Fishbein MC, Irie Y, Streiter R, Berliner J, Ardehali A. RANTES Neutralizaition Reduces Mononuclear Cell Infiltration and Intimal Thickening in Cardiac Allograft Vasculopathy. American Society of Transplantation, Chicago, IL. May 2001.

29. Yun J, **Fischbein MP**, Laks H, Fishbein MC, Irie Y, Streiter R, Berliner J, Ardehali A. Production of Mig and CXCR3 in Chronic Rejection. American Society of Transplantation, Chicago, IL. May 2001.

30. Yun J, **Fischbein MP**, Laks H, Fishbein M, Irie Y, Streiter R, Berliner J, Ardehali A. Development of cardiac allograft vasculopathy in H2M deficient mice. American Society of Transplantation, Chicago, IL. May 2001.

31. Whiting D, Yun J, **Fischbein MP**, Berliner J, Fishbein MC, Laks H, Ardehali A. Chemokine expression in ischemia-reperfusion injury. American Society of Transplant Surgeons Winter Symposium, Miami Beach, Florida. January 2001.

32. Whiting D, Yun J, **Fischbein MP**, Burdick M, Streiter R, Fishbein M, Laks H, Berliner J, Ardehali A. Chemokine IP-10 and Cardiac Allograft Vasculopathy. XIX International Congress of the Transplantation Society, Miami, FL. August 2002.

33. Whiting D, **Fischbein MP**, Yun J, Chun S, Bonavida B, Ardehali A. CD8 Lymphocytes Recognize Disparate MHC II Antigens via Cross-priming and the Direct Pathway. XIX International Congress of the Transplantation Society, Miami, FL. August 2002.

PUBLICATIONS

1. Wang X, Christiani D, Winecke J, **Fischbein M**, Xeu X, Cheng T, Mark G, Wain J, Kelsey K Mutations in the p53 Gene in Lung Cancer are Associated with Cigarette Smoking and Asbestos Exposure. Cancer Epidemiology 1995;Jul-Aug4(5):543-8j.

2. Yun J, **Fischbein MP**, Laks H, Fishbein MC, Espejo M, Irie Y, Berliner J, Ardehali A. Chemokine Production Correlates with Leukocyte Recruitment in Cardiac Allograft Vasculopathy. Transplantation 2000; 69 (12): 2515.

3. **Fischbein MP**, Ardehali A, Yun J, Schoenberger S, Laks H, Irie Y, Dempsey P, Cheng G, Fishbein MC, Bonavida B. CD40 Signaling Replaces $CD4^+$ Lymphocytes and its Blocking Prevents Chronic Rejection of Heart Transplants. Journal of Immunology 2000; 165 (12): 7316.

4. **Fischbein MP**, Yun J, Laks H, Irie Y, Fishbein MC, Espejo M, Bonavida B, Ardehali A. $CD8^+$ Lymphocytes Augment Chronic Rejection in a MHC Class II Mismatched Model. Transplantation 2001; 71 (8): 1146.

5. Yun JJ, **Fischbein MP**, Laks H, Irie Y, Espejo ML, Fishbein MC, Berliner JA, Ardehali A. Rantes Production during Development of Cardiac Allograft Vasculopathy. Transplantation 2001; 71 (11): 1649.

6. Yun J, **Fischbein MP**, Laks H, Ardehali A. Chronic Rejection in Transplanted Hearts. Current Opinion in Organ Transplantation 2001; 6 (3): 205.

7. **Fischbein MP**, Yun J, Laks H, Irie Y, Fishbein MC, Bonavida B, Ardehali A. Role of $CD8^+$ Lymphocytes in Chronic Rejection of Transplanted Hearts. J Thorac Cardiovasc Surg 2002; 123 (4): 803.

8. Ardehali A, **Fischbein MP**, Yun J, Irie Y, Fischbein MC, Laks H.Indirect alloreactivity and chronic rejection. Transplantation 2002; 73 (11): 1805.

9. Yun JJ, **Fischbein MP**, Irie Y, Fishbein MC, Burdick MD, Streiter RM, Laks H, Berliner J, Ardehali A. The Role of Interferon-gamma Inducible CXC Chemokine, Mig/CXCL-9, in Cardiac Allograft Vasculopathy. Am J Pathol 2002; 161 (4): 1307.

10. Pinderski LJ, **Fischbein MP**, Subbanagounder G, Fishbein MC, Kubo N, Cheroutre H, Curtiss LK, Berliner JA, Boisvert WA. Overexpression of Interleukin-10 by activated T lymphocytes inhibits atherosclerosis in LDL-Receptor deficient mice by altering lymphocyte and macrophage phenotypes. Circ Research 2002; 90 (10): 1064.

11. **Fischbein MP**, Yun J, Laks H, Irie Y, Oslund-Pinderski L, Fishbein MC, Bonavida B, Ardehali A. Regulated IL-10 Expression Prevents Chronic Rejection of Transplanted Hearts. J Thorac Cardiovasc Surg 2003; 126 (1): 216.

12. Yun JJ, Whiting D, **Fischbein MP**, Banerji A, Irie Y, Stein D, Fishbein MC, Proudfoot AE, Laks H, Berliner JA, Ardehali A. Combined blockade of chemokine receptors CCR1 and CCR5 attenuate chronic rejection. Circulation 2004; 109 (7): 932.

13. Schnickel GT, Whiting D, Hsieh GR, Yun JJ, **Fischbein MP**, Fishbein MC, Yao W, Shfizadeh A, Ardehali A. CD8 lymphocytes are sufficient for the development of chronic rejection. Transplantation 2004; 78 (11): 1634.

14. Schrepfer S, Deuse T, Reichenspurner H, Hoffmann J, Haddad M, Fink J, **Fischbein MP**, Robbins RC, Pelletier MP. Effect of inhaled tacrolimus on cellular and humoral rejection to prevent posttransplant obliterative airway disease. Am J Transplant 2007; 7 (7): 1733.

15. Deuse T, Schrepfer S, Reichenspurner H, Hoyt G, **Fischbein MP**, Robbins RC, Pelletier MP. Techniques for experimental heterotopic and orthotopic tracheal transplantations-when to use which model. Transpl Immunol 2007; 17 (4): 255.

16. Schrepfer S, Deuse T, Reichenspurner H, **Fischbein MP**, Robbins RC, Pelletier MP. Stem cell transplantation: the lung barrier. Transplant Proc 2007; 39 (2): 573.

17. Deuse T, Schrepfer S, Pelletier MP, **Fischbein MP**, Robbins RC, Reichenspurner H. Is the malononitrilamide FK778 better for the prevention of acute or chronic rejection? Transplant Proc 2007; 39 (2): 569.