

Joshua M. Spin, M.D., Ph.D.
Stanford University Hospital and Clinics
300 Pasteur Drive
Stanford, California 94305
CURRICULUM VITAE

Academic Appointments

2004 Instructor, Department of Medicine, **Stanford University Hospital and Clinics**.

Education

1985-89 **Cornell University**, Arts and Sciences, Ithaca, New York.
Bachelor of Arts, *cum laude* in Biophysics.

1989-97 **Boston University School of Medicine**, Boston, Massachusetts.
MD-PhD, *cum laude*. Doctoral Research in Biophysics, 1991-1995.

1997-00 **Stanford University Hospital and Clinics**, Stanford, California.
Resident in Internal Medicine, **Certified Diplomate 2000-2010**.

2000-03 **Stanford University Hospital and Clinics**, Stanford, California.
Fellow in Cardiovascular Medicine, **Certified Diplomate 2003-2013**.

2003-04 **Stanford University Hospital and Clinics**, Stanford, California.
Postdoctoral Fellow in Cardiovascular Medicine.

Employment

1989-97 M.D.-Ph.D. Student, **Boston University School of Medicine**, Boston, MA

1990 *Research Technician, **Boston University School of Medicine**, Pathology Department,
Boston, MA (Supervisors: Michael Watkins M.D., Christian Haudenschild Ph.D.)

1989-95 Graduate Student, **Boston University School of Medicine**, Biophysics Department,
Boston, MA (Mentor: David Atkinson Ph.D.)

1997-98 Intern, Department of Medicine, **Stanford University Hospital and Clinics**, Stanford, CA
(Chair: Dr. Judith Swain)

1998-2000 Resident, Department of Medicine, **Stanford University Hospital and Clinics**, Stanford,
CA (Chair: Dr. Judith Swain)

2000-03 Clinical Fellow, Division of Cardiovascular Medicine (Chair: Dr. Thomas Quertermous),
Stanford University Hospital and Clinics, Stanford, CA

2002-present *Medical Staff, **Veterans Administration Health Care System**, Palo Alto Division (ER
Director: Dr. Don Schreiber), Palo Alto, CA

2002-present *Medical Staff, **Veterans Administration Health Care System**, Menlo Park Division
(Director: Dr. Jon Fuller), Palo Alto, CA

2003-05 Postdoctoral Fellow, Division of Cardiovascular Medicine (Mentor: Dr. Thomas
Quertermous), **Stanford University Hospital and Clinics**, Stanford, CA

2004-present Instructor, **Stanford University Hospital and Clinics**, Stanford, CA (Chair: Judith Swain)

Part-time positions indicated by *; remainder are full-time.

Research Experience

1987-89 **Cornell University**, Nutrition/Biochemistry – A. Bensadoun Ph.D.
Heparin increases apo-E secretion levels in Fu5AH hepatoma cells.

1989-95 **Boston University**, Biophysics – D. Atkinson Ph.D.
Cryoelectron microscopy and image processing of low density lipoprotein.

1990 **Boston University**, Pathology – M. Watkins M.D., C. Haudenschild Ph.D.
Effects of hypoxia and stasis on bovine aortic endothelial cells.

1999-00 **Stanford University**, Cardiology – S. Chun M.D., M. Blumenkranz M.D.
Effects on the retina of long-term amiodarone exposure.

2001 **Stanford University**, Cardiology – V. Froelicher M.D.
Diagnostic and prognostic value of exercise testing in elderly males.

2002-05 **Stanford University**, Cardiology – T. Quertermous M.D., Ph.D.
Genetics of vascular smooth muscle cells

Honors

1989	Golden Key Honor Society
1987	Alpha Epsilon Delta Pre-Medical Honor Society
1989	Honors in Biophysics, Cornell University
1989	Bachelor of Arts, <i>cum laude</i> , Cornell University
1990	Elizabeth K. Moyer Anatomy Award
1991	Alpha Omega Alpha Medical Honor Society (Junior)
1991-94	Awarded NRSA Molecular Biophysics Training Program Fellowship
1995	Henry I. Russek Student Achievement Day Runner-Up
1997	Doctor of Medicine-Doctor of Philosophy, <i>cum laude</i> , Boston University School of Medicine
2002-03	Stanford University Dean's Fellowship
2002-04	Ruth L. Kirschstein National Research Service Award Individual Fellowship
2004-present	Donald W. Reynolds Cardiovascular Fellowship

Societies and Professional Memberships

1997-2000	American College of Physicians, Associate
1991-present	Alpha Omega Alpha Medical Honor Society
2000-present	American College of Cardiology – Affiliate in Training
2003-present	American Heart Association, Council on Basic Cardiovascular Sciences Inter Disciplinary Working Group: Functional Genomics and Translational Biology

Bibliography/Publications

A. Dissertation

Spin JM. PhD Dissertation: Cryoelectron microscopy studies of low density lipoprotein in vitreous ice. (Publication March 31, 1997)

B. Publications

1. **Spin JM** and Atkinson D. Cryoelectron microscopy of low density lipoprotein in vitreous ice. (1995) *Biophysical Journal*. **68**(5):2115-23
2. **Spin J.** Abnormal ECG after extensive maxillofacial surgery. (1999) *Hospital Practice*. **34**(11):27-8
3. **Spin JM**, Prakash M, Froelicher VF, Partington S, Marcus R, Do D, Myers J. The prognostic value of exercise testing in elderly males. (2001) *American Journal of Medicine*. **112**(6):453-9
4. **Spin JM**, and Vagelos RH. Early use of statins in acute coronary syndrome. (2002) *Current Cardiology Reports*. **4**(4):289-97. Review.
5. Shaikh S, Shaikh N, Chun SH, **Spin JM**, Blumenkranz MS, Marmor MF. Retinal evaluation of patients on chronic amiodarone therapy. (2003) *Retina*, **23**(3):354-9
6. Lai S, Kaykha A, Yamazaki T, Goldstein M, **Spin JM**, Myers J, Froelicher VF. Treadmill scores in elderly men. (2004) *Journal of the American College of Cardiology*, **43**(4):606-15
7. Ishida T, Choi SY, Kundu RK, **Spin J**, Tomoya Y, Hirata K, Kojima Y, Yokoyama M, Cooper AD, Quertermous T. Endothelial lipase modulates susceptibility to atherosclerosis in apolipoprotein-E deficient mice. (2004) *Journal of Biological Chemistry*, **279**(43):45085-92.
8. **Spin JM**, Nallamshetty S, Tabibiazar R, Ashley EA, King JY, Chen M, Tsao PS, Quertermous T. Transcriptional profiling of in vitro smooth muscle cell differentiation identifies specific patterns of gene and pathway activation. (2004) *Physiological Genomics*, **19**:292-302.
9. Tabibiazar R, Wagner RA, **Spin JM**, Ashley EA, Narasimhan B, Rubin EM, Efron B, Tsao PS, Tibshirani R, Quertermous T. Mouse strain-specific differences in vascular wall gene expression and their relationship to vascular disease. (2005) *Arteriosclerosis, Thrombosis, and Vascular Biology*, **25**:1-7
10. Watt CC, **Spin J**, Froelicher V, Quertermous T, Ashley EA. A C# application for visualizing gene expression data. *submitted for publication*.
11. Tabibiazar R, Wagner RA, Ashley EA, King JY, Ferrara R, **Spin JM**, Sanan DA, Narasimhan B, Tibshirani R, Tsao PS, Efron B, Quertermous T. Signature patterns of gene expression in mouse atherosclerosis and their correlation to human coronary disease. (2005) *accepted Physiological Genomics* (May 3, 2005).

C. Abstracts

Spin JM and Atkinson D. Structure of low density lipoprotein in vitreous ice. Abstracts: *37th Annual Meeting of Biophysical Society*. Washington, DC (1993) **64**,2:A286

Spin JM and Atkinson D. Cryoelectron microscopy of low density lipoprotein in vitreous Ice. *Henry I. Russek Student Achievement Day*, Boston, MA. (1995)

Spin JM. Hemochromatosis presenting as atrial fibrillation and heart failure after treatment for prostate cancer - a case report. *Abstract Associates Competition, American College of Physicians Northern California Region Scientific Meeting*. San Francisco, CA (1998)

Lai SR, Kaykha A, Yamazaki T, **Spin J**, Goldstein M, Froelicher VF, Myers J. Is the Duke Treadmill Score appropriate in the elderly? *Journal of the American Geriatrics Society* (2003) **51**(4 Suppl):S213.