BIOGRAPHICAL SKETCH

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NAME	POSITION TITLE
Leeper, Nicholas J	Instructor of Medicine
eRA COMMONS USER NAME LEEPER.NICHOLAS	

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
University of Chicago, Chicago, Il	BA	09/1995-06/1999	Chemistry
University of Chicago, Pritzker School of Medicine	MD	09/1999-06/2003	Medicine

A. **Positions and Honors**

EMPLOYMENT/ POSITIONS	BEGINNING DATE (mm/yy)	ENDING DATE (mm/yy)	FIELD	INSTITUTION/COMPANY	SUPERVISOR/ EMPLOYER
Research Intern	06/93	09/93	Gene Therapy	Progenitor Incorporated	Dr. Douglass Given
Research Assistant	06/96	03/97	Human Genetics	University of Chicago	Dr. David Ledbetter
Research Assistant	06/98	09/98	Angiogenesis	Stanford University	Dr. Tom Quertermous
Research Assistant	06/00	06/02	Preconditioning	University of Chicago	Dr. Bruce Gewertz
Intern in Medicine	06/03	05/04	Internal Medicine	UC San Francisco	Dr. Lee Goldman
Resident Physician	06/04	06/05	Internal Medicine	UC San Francisco	Dr. Lee Goldman
Clinical Fellow	07/05	06/07	Cardiology	Stanford University	Dr. John Giacomini
Postdoctoral Fellow	07/07	06/09	Vascular Biology	Stanford University	Dr. Tom Quertermous
Instructor in Medicine	07/09	06/10	Vascular Medicine	Stanford University	Dr. John Cooke

Academic and Professional Honors

1992 Eagle Scout, Boy Scouts of America
1994 Accepted into University of Chicago as high school junior
1997 Accepted into Early Acceptance Program (EAP), Pritzker School of Medicine, Sophomore Year
1999 Graduated with Honors, University of Chicago, Department of Chemistry
1999 Dean's List, four consecutive years
2000 Charlie Huggins Research Award Recipient
2000 Teaching Assistant, Human Morphology, University of Chicago
2000 Phi Delta Theta Educational Foundation Scholarship Recipient
2002 Calvin Fentress Research Award Recipient
2003 Alpha Omega Alpha Honors Society
2003 Graduated with Honors, University of Chicago, Pritzker School of Medicine
2004 Accepted into Fast-Track position in Stanford Clinical Investigator Pathway (CIP)
2006 American Heart Association Population Sciences Young Investigator Finalist
2006 Diplomate in Internal Medicine, American Board of Internal Medicine
2008 Selected as Chief Cardiovascular Fellow, Stanford University
2008 Reviewer, *The International Journal of Cardiology*
2009 Reviewer, *The Journal of the American Medical Association*
2009 Diplomate in Cardiovascular Medicine, American Board of Internal Medicine (Anticipated)

Professional Societies
2005 American Heart Association, Professional Member
2008 American College of Cardiology, Fellow in Training Member

B. Publications

Scientific Publications:

Sturtz FG,Cioffi L, Wittmer S, Sonk MJ, Shafer A, Li Y, **Leeper NJ***,* Smith-Gbur J, Shulok J, Platika D. *Tetracycline-regulatable expression vectors tightly regulate in vitro gene expression of secreted proteins.* Gene. 1998 October 23; 221(2): 279-85. PMID: 9795241.

Hirata K, Dichek HL, Cioffi JA, Choi SY, **Leeper NJ**, Quintana L, Kronmal GS, Cooper AD, Quertermous T. *Cloning of a unique lipase from endothelial cells extends the lipase gene family.* Journal of Biological Chemistry. 1999 May 14; 274 (20): 14170-5. PMID: 10318835.

Orr JD, **Leeper NJ**, Funaki B, Leef J, Gewertz BL, Desai TR. *Gender does not influence outcomes after iliac angioplasty.* Annals of Vascular Surgery. 2002 Jan; 16 (1): 55-60. PMID: 11904805.

Desai TR, **Leeper NJ**, Hynes KL, Gewertz BL. *Interleukin-6 causes endothelial barrier dysfunction via the protein kinase C pathway.* Journal of Surgical Research. 2002 May 15; 104(2): 118-23. PMID: 12020130.

Leeper NJ, Wener LS, Dhaliwal G, Saint S, Wachter RM. *One surprise after another.* The New England Journal of Medicine. 2005 Apr 7;352(14):1474-9. PMID: 15814884.

Ward RP, **Leeper NJ**, Kirkpatrick JN, Lang RM, Sorrentino MJ, Williams KA. *The effect of preoperative statin therapy on cardiovascular outcomes in patients undergoing infrainguinal vascular surgery.* The International Journal of Cardiology. 2005 Oct 10;104(3):264-8. PMID: 16186054.

Leeper NJ, Gupta A, Murphy D, Wu JC. *Double-chambered right ventricle and cameral fistula.* The Journal of the American Society of Echocardiography. 2006 Sep;19(9):1191.e9-11. PMID: 16950481.

Leeper NJ, Gupta A, Schnittger I, Wu JC. *Clinical dilemmas in treating left ventricular thrombi.* The International Journal of Cardiology. 2007 Jan 18;114(3):e118-9. PMID: 17049652.

Leeper NJ, Dewey FE, Ashley EA, Sandri M, Tan SW, Hadley D, Myers J, Froelicher VF. *Prognostic Value of Heart Rate Increase at Onset of Exercise.* Circulation. 2007 Jan 30; 115(4): 468-74. PMID: 17242274.

Leeper NJ, Ardehali R, deGoma E, Heidenreich PA. *Statin use in patients with extremely low-density lipoprotein levels is associated with improved survival.* Circulation. 2007 Aug 7; 116(6): 613-8. PMID: 17664373.

deGoma EM, **Leeper NJ**, Heidenreich PA. *Clinical significance of high-density lipoprotein cholesterol in patients with low low-density lipoprotein cholesterol.* Journal of the American Colledge of Cardiology. 2008 Jan 1; 51(1): 49-55. PMID: 18174036.

Chun HJ, Ali ZA, Kojima Y, Kundu RK, Sheikh AY, Agrawal R, Zheng L, **Leeper NJ**, Pearl NE, Patterson AJ, Anderson JP, Tsao PS, Lenardo MJ, Ashley EA, Quertermous T. *Apelin signaling antagonizes Angiotensin II effects in experimental atherosclerosis.* Journal of Clinical Investigation, 2008 Oct; 118 (10): 3343-54. PMID: 18769630.

Leeper NJ, Dhaliwal G, Saint S, Witteles RM. *Fool's Gold.* The New England Journal of Medicine. 2008 Nov 6; 359 (19): 2035-41. PMID: 18987372.

Leeper NJ, Tedesco MM, Kojima Y, Schultz GM, Kundu RK, Ashley EA, Tsao PS, Dalman RL, Quertermous T. *Apelin prevents aortic aneurysm formation by inhibiting macrophage inflammation.* American Journal of Physiology- Heart Circulatory Physiology. 2009 May; 296 (5): H1329-35. PMID: 19304942.

Charo DN, Ho MY, Fajardo G, Kawana M, Kundu R, Finsterbach T, **Leeper NJ**, Ernst K, Chen M, Chun HJ, Bernstein D, Ashley EA, Quertermous T. *Endogenous regulation of cardiovascular function by Apelin-APJ.* American Journal of Physiology- Heart Circulatory Physiology. 2009 Sep 18. [Epub ahead of print]. PMID: 19767528.

Manuscripts submitted or in preparation:

Leeper NJ, Kojima Y, Raiesdana A, Chun HJ, Tsao P, Quertermous T, Spin J. *MicroRNA 26-a regulates vascular smooth muscle differentiation via antagonism of the Bone Morphogenic Protein pathway.* In preparation.

Kojima Y, Cox CM, Kundu R, **Leeper NJ**, Anderson JA, Chun H, Ali ZA, Krieg PA, Quertermous T. *The apelin-APJ pathway promotes neointimal formation in the carotid ligation model in mouse*. Circulation Research. Under review.

Ardehali R, Wilson A, **Leeper NJ**, Heidenreich PH. *The Effect of Angiotensin-Converting Enzyme Inhibitors and Statins on Progression of Aortic Sclerosis and Mortality*. Journal of the American College of Cardiology. Under review.

Book Chapters:

Leeper NJ, Ho MY, Ashley EA, Quertermous T. *Role of apelin signaling in cardiac function and disease.* Pathophysiology of Apelin Signalling; Chapter 6, 2008. ISBN: 978-81-7895-387-8.

Reviews:

Leeper NJ, Hunter AL, Cooke JP. *Stem cell therapy for vascular regeneration: Adult, Embryonic, and Induced Pluripotent Stem Cells*. Circulation. Favorably reviewed, revision solicited.

Abstracts and Invited Letters:

Leeper NJ. Pritzker School of Medicine Summer Research Forum, *Preconditioning in the Endothelium*, 2000.

Leeper NJ, Hynes KL, Gewertz BL, Desai TR. *Hypoxia Increases TNF-alpha Induced Endothelial Cell Adhesion Molecule Expression.* Accepted for presentation, 8th Annual Charles B. Huggins Research Conference, 2001.

Desai TR, **Leeper NJ**, Hynes KL, Gewertz BL. *Interleukin-6 Causes Endothelial Barrier Dysfunction Via Alterations in the Distribution of Zonula Occludens-1 Protein.* Accepted for presentation, North American Vascular Biology Organization (NAVBO), 2001.

Ward RP, **Leeper NJ**, Kirkpatrick JN, Williams KA, Lang RM, Schwartz LB, Desai TR. *Preoperative statins are associated with shorter length of stay and improved long term survival in patients undergoing vascular surgery.* Accepted for presentation, American College of Cardiology, 2004.

Leeper NJ, Ursell P, Wachter RM. *One Surprise after Another- Authors Reply*. The New England Journal of Medicine. 2005 Jul 7; 353 (1): 97-8.

Leeper NJ, Tan S, Hadley D, Myers J, Froelicher V. *A Rapid Heart Rate Rise at Onset of Exercise Predicts Improved Survival.* Accepted for presentation, Heart and Rhythm Society, 2006.

DeGoma EM, **Leeper NJ**, Rader DJ, Heidenreich PA. *Clinical Significance of HDL-c Levels among Patients with LDL-c less than 60 mg/dl. Circulation.* 2006; 114: II_899.

Ardehali R, **Leeper NJ**, Heidenreich PA. *The Effect of Angiotensin-Converting Enzyme Inhibition on Progression of Aortic Sclerosis and Mortality*. *Circulation.* 2006; 114: II_657.

Leeper NJ, Ardehali R, DeGoma EM, Heidenreich PA. *Statin Use in Patients with Extremely Low LDL Levels is Associated with Improved Survival.* Population Sciences Finalist, *Circulation.* 2006; 114: II_827-II_828.

Leeper, NJ; Ardehali, R; Degoma, EM, Heidenreich PA. *Response to letter regarding article, "Statin use in patients with extremely low low-density lipoprotein levels is associated with improved survival". Circulation.* 2008; 117: (9) E175.

Kojima Y, Kundu R, **Leeper NJ**, Quertermous T. *Atherosclerosis Development is Increased in Apelin/Apoe Double Knockout Mice*. *Circulation.* 2008; 118: S_481.

Kojima Y, Kundu R, **Leeper NJ**, Anderson J, Quertermous T. *Apelin Regulates Vascular Remodeling In The Mouse Carotid Artery Ligation Model*. *Circulation.* 2008; 118: S_574.

Leeper NJ, Tedesco M, Kojima Y, Schulz G, Ho MY, Dalman R, Tsao P, Quertermous T. *Apelin Prevents Aortic Aneurysm Formation by Inhibiting Macrophage Inflammation and Infiltration. Circulation.* 2008; 118: S_451.

Leeper NJ, Chun HJ, Quertermous T. *The Apelin-APJ system in atherosclerosis. The International Atherosclerosis Society- athero.org.* May 27, 2009.

C. Research Support

Ongoing support:

K12 HL087746; Principle Investigator: John P. Cooke; 04/01/07 – 03/31/12

- NIH/NHLBI
- Goal: To train translational scientists in the field of Vascular Medicine. Dr. Leeper's current clinical and basic research training in peripheral vascular diseases is funded by this grant.

Completed support:

1 F32 HL090203-01; Principle Investigator: **NJ Leeper**; 07/01/2008-06/30/2010

- NIH/NHLBI
- Goal: To study the role of the apelin-APJ pathway in aneurismal disease and its effect on the recruitment of inflammatory cells to the blood vessel wall.

0725196Y AHA Western Affiliate; Principle Investigator: **NJ Leeper**; 07/01/2007-06/30/2008

- American Heart Association
- Goal: To study the role of the apelin-APJ pathway in atherosclerotic vascular wall disease in the ApoE/AngII model.

Vascular Biology Grant; Principle Investigator: **NJ Leeper**; 07/01/2007- 06/30/2008

- Stanford University Vascular Biology Working Group
- Goal: To develop a line of independent study in vascular biology and human genetics.

Dean's Postdoctoral Fellowship; Principle Investigator: **NJ Leeper**; 07/01/2007-06/30/2008

- Stanford University Deans Fellowship
- Goal: To study apelin in atherosclerotic peripheral vascular disease.