Stanford



John P. Cooke, MD, PhD

Professor of Medicine (Cardiovascular Medicine), Emeritus

Medicine - Med/Cardiovascular Medicine

NIH Biosketch available Online Curriculum Vitae available Online Resume available Online

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - Med/Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Training program in Vascular Medicine and Biology, (1991-2007)
- Associate Director (Education and Training), Stanford Cardiovascular Institute, (2007- present)

HONORS AND AWARDS

- President, Society for Vascular Medicine (2005-2007)
- "Best Doctors in the Bay Area", San Francisco Magazine (2003,2005)
- Teaching Award, Dept of Medicine (2001)
- Established Investigator Award, American Heart Association (1995)
- Master of the Society for Vascular Medicine, Society for Vascular Medicine (2009)

PROFESSIONAL EDUCATION

- PhD, Mayo Graduate School of Medicine , Physiology (1985)
- MD, WSU School of Medicine , Medicine (1980)

LINKS

- My Lab Site: http://cvmedicine.stanford.edu/vascularmedicine/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am now Chair of the Department of Cardiovascular Sciences in the Houston Methodist Research Institute (HMRI) in Houston, and the Director of the Center for Cardiovascular Regeneration in the Debakey Heart and Vascular Center. Our laboratory location is in the HMRI, a new (built in 2010) research facility (450,000 sq ft) housing a growing scientific community, with some outstanding investigators such as Neil Copeland and Nancy Jenkins, who are Nobel contenders for their work with the sleeping beauty transposon. I will be recruiting 13 faculty over the next 4 years to build the Department.

It is going to be great fun, but I will miss this wonderful Stanford community. I will have some ongoing projects and collaborations here, that will keep me in touch with Stanford, facilitated by my new position as an Emeritus Professor at Stanford.

My Center for Cardiovascular Regeneration in Houston performs fundamental basic and translational work in cardiovascular regeneration from molecule to man. The goal is to transfer basic research insights into clinical trials using a vertically integrated approach with an array of biochemical and molecular tools, cellular and animal models, and clinical research techniques. Our mission is to to generate great ideas and transform cardiovascular care.

My own basic research is focused on induced pluripotent stem cells (iPSCs), as well as direct reprogramming, for vascular regeneration. We have discovered a critical role for activation of innate immune pathways in nuclear reprogramming to pluripotency, or in directed transdifferentiation. We have coined the term "transflammation" to describe the role of innate immune activation in epigenetic plasticity required for reprogramming (see Lee et al, CELL 2012).

We have a long-standing interest in two different pathways regulating endothelial function. Endothelium derived nitric oxide synthase(NOS) plays a critical role in EC survival, proliferation, and angiogenesis. There is an endogenous competitive inhibitor of the NO synthase pathway called ADMA (asymmetric dimethylarginine). We find that this molecule is elevated in disorders associated with endothelial dysfunction, and plays a significant role in causing vascular disease. ADMA becomes elevated in people with hypercholesterolemia, diabetes, and other vascular disorders. We find that oxidative stress impairs the activity of the enzyme (DDAH) that degrades ADMA. ADMA accumulates and blocks NO synthesis. Overexpression of DDAH (in our transgenic mouse or in endothelial cell culture) can reduce ADMA levels and increase NO synthesis, with significant consequences on vascular homeostasis and angiogenesis(Jacobi et al Circulation 2005).

We discovered a pathway modulating angiogenesis (Heeschen et al, Nature Medicine 2001). Nicotinic acetylcholine receptors on endothelial cells are upregulated with hypoxia, and when stimulated (by the endogenous transmitter acetylcholine), these receptors mediate endothelial tube formation in vitro, and angio

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Therapeutic Transdifferentiation A Novel Approach for Vascular Disease** *CIRCULATION RESEARCH*
  Cooke, J. P.
  2013; 112 (5): 748-750
- **Multifunctional in vivo vascular imaging using near-infrared II fluorescence** *NATURE MEDICINE*
  Hong, G., Lee, J. C., Robinson, J. T., Raaz, U., Xie, L., Huang, N. F., Cooke, J. P., Dai, H.
  2012; 18 (12): 1841-?
- **Endothelial Cells Derived From Nuclear Reprogramming** *CIRCULATION RESEARCH*
  Wong, W. T., Huang, N. F., Botham, C. M., Sayed, N., Cooke, J. P.
  2012; 111 (10): 1363-1375
- **Activation of Innate Immunity Is Required for Efficient Nuclear Reprogramming** *CELL*
  Lee, J., Sayed, N., Hunter, A., Au, K. F., Wong, W. H., Mocarski, E. S., Pera, R. R., Yakubov, E., Cooke, J. P.
  2012; 151 (3): 547-558

- **Endothelial Cells Derived From Human iPSCS Increase Capillary Density and Improve Perfusion in a Mouse Model of Peripheral Arterial Disease** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
  Rufaihah, A. J., Huang, N. F., Jame, S., Lee, J. C., Nguyen, H. N., Byers, B., De, A., Okogbaa, J., Rollins, M., Reijo-Pera, R., Gambhir, S. S., Cooke, J. P.
  2011; 31 (11): E72-U44
- **DDAH Says NO to ADMA** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
  Cooke, J. P., Ghebremariam, Y. T.
  2011; 31 (7): 1462-1464
- **Dietary nitrate, nitric oxide, and restenosis** *JOURNAL OF CLINICAL INVESTIGATION*
  Cooke, J. P., Ghebremariam, Y. T.
  2011; 121 (4): 1258-1260
- **MicroRNA and Mechanisms of Impaired Angiogenesis in Diabetes Mellitus** *CIRCULATION*
  Leeper, N. J., Cooke, J. P.
  2011; 123 (3): 236-238
- **Role of Nitric Oxide Signaling in Endothelial Differentiation of Embryonic Stem Cells** *STEM CELLS AND DEVELOPMENT*
  Huang, N. F., Fleissner, F., Sun, J., Cooke, J. P.
  2010; 19 (10): 1617-1625
- **Embryonic Stem Cell-Derived Endothelial Cells Engraft Into the Ischemic Hindlimb and Restore Perfusion** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
  Huang, N. F., Niiyama, H., Peter, C., De, A., Natkunam, Y., Fleissner, F., Li, Z., Rollins, M. D., Wu, J. C., Gambhir, S. S., Cooke, J. P.
  2010; 30 (5): 984-U224
- **Cholinergic Modulation of Angiogenesis: Role of the 7 Nicotinic Acetylcholine Receptor** *JOURNAL OF CELLULAR BIOCHEMISTRY*
  Wu, J. C., Chruscinski, A., Perez, V. A., Singh, H., Pitsiouni, M., Rabinovitch, M., Utz, P. J., Cooke, J. P.
  2009; 108 (2): 433-446
- **Embryonic stem cell-derived endothelial cells for treatment of hindlimb ischemia.** *Journal of visualized experiments : JoVE*
  Huang, N. F., Niiyama, H., De, A., Gambhir, S. S., Cooke, J. P.
  2009
- **Dimethylarginine dimethylaminohydrolase overexpression enhances insulin sensitivity** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
  Sydow, K., Mondon, C. E., Schrader, J., Konishi, H., Cooke, J. P.
  2008; 28 (4): 692-697
- **A central role for nicotinic cholinergic regulation of growth factor-induced endothelial cell migration** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
  Ng, M. K., Wu, J., Chang, E., Wang, B., Katzenberg-Clark, R., Ishii-Watabe, A., Cooke, J. P.
  2007; 27 (1): 106-112
- **Dimethylarginine dimethylaminohydrolase overexpression suppresses graft coronary artery disease** *CIRCULATION*
  Tanaka, M., Sydow, K., Gunawan, F., Jacobi, J., Tsao, P. S., Robbins, R. C., Cooke, J. P.
  2005; 112 (11): 1549-1556
- **Overexpression of dimethylarginine dimethylaminohydrolase reduces tissue asymmetric dimethylarginine levels and enhances angiogenesis** *CIRCULATION*
  Jacobi, J., Sydow, K., von Degenfeld, G., Zhang, Y., Dayoub, H., Wang, B. Y., Patterson, A. J., Kimoto, M., Blau, H. M., Cooke, J. P.
  2005; 111 (11): 1431-1438
- **Asymmetrical dimethylarginine - The Uber marker?** *CIRCULATION*
  Cooke, J. P.
  2004; 109 (15): 1813-1818
- **Dimethylarginine dimethylaminohydrolase regulates nitric oxide synthesis - Genetic and physiological evidence** *CIRCULATION*
  Dayoub, H., Achan, V., Adimoolam, S., Jacobi, J., Stuehlinger, M. C., Wang, B. Y., Tsao, P. S., Kimoto, M., Vallance, P., Patterson, A. J., Cooke, J. P.

2003; 108 (24): 3042-3047

- **Second hand smoke stimulates tumor angiogenesis and growth** *52nd Annual Scientific Session of the American-College-of-Cardiology*
  Zhu, B. Q., Heeschen, C., Sievers, R. E., Karliner, J. S., Parmley, W. W., Glantz, S. A., Cooke, J. P.
  CELL PRESS.2003: 191–96
- **Impaired nitric oxide synthase pathway in diabetes mellitus - Role of asymmetric dimethylarginine and dimethylarginine dimethylaminohydrolase** *CIRCULATION*
  LIN, K. Y., Ito, A., Asagami, T., Tsao, P. S., Adimoolam, S., Kimoto, M., Tsuji, H., Reaven, G. M., Cooke, J. P.
  2002; 106 (8): 987-992
- **A novel angiogenic pathway mediated by non-neuronal nicotinic acetylcholine receptors** *JOURNAL OF CLINICAL INVESTIGATION*
  Heeschen, C., Weis, M., Aicher, A., Dimmeler, S., Cooke, J. P.
  2002; 110 (4): 527-536
- **Nicotine stimulates angiogenesis and promotes tumor growth and atherosclerosis** *NATURE MEDICINE*
  Heeschen, C., Jang, J. J., Weis, M., Pathak, A., Kaji, S., Hu, R. S., Tsao, P. S., Johnson, F. L., Cooke, J. P.
  2001; 7 (7): 833-839
- **Alternative Ankle-Brachial Index Method Identifies Additional At-Risk Individuals** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Nead, K. T., Cooke, J. P., Olin, J. W., Leeper, N. J.
  2013; 62 (6): 553-559
- **Walking impairment questionnaire improves mortality risk prediction models in a high-risk cohort independent of peripheral arterial disease status.** *Circulation. Cardiovascular quality and outcomes*
  Nead, K. T., Zhou, M., Caceres, R. D., Olin, J. W., Cooke, J. P., Leeper, N. J.
  2013; 6 (3): 255-261
- **The modulation of endothelial cell morphology, function, and survival using anisotropic nanofibrillar collagen scaffolds** *BIOMATERIALS*
  Huang, N. F., Okogbaa, J., Lee, J. C., Jha, A., Zaitseva, T. S., Paukshto, M. V., Sun, J. S., Punjya, N., Fuller, G. G., Cooke, J. P.
  2013; 34 (16): 4038-4047
- **Spatial patterning of endothelium modulates cell morphology, adhesiveness and transcriptional signature** *BIOMATERIALS*
  Huang, N. F., Lai, E. S., Ribeiro, A. J., Pan, S., Pruitt, B. L., Fuller, G. G., Cooke, J. P.
  2013; 34 (12): 2928-2937
- **Usefulness of the Addition of Beta-2-Microglobulin, Cystatin C and C-Reactive Protein to an Established Risk Factors Model to Improve Mortality Risk Prediction in Patients Undergoing Coronary Angiography** *AMERICAN JOURNAL OF CARDIOLOGY*
  Nead, K. T., Zhou, M. J., Caceres, R. D., Sharp, S. J., Wehner, M. R., Olin, J. W., Cooke, J. P., Leeper, N. J.
  2013; 111 (6): 851-856
- **Exercise capacity is the strongest predictor of mortality in patients with peripheral arterial disease** *JOURNAL OF VASCULAR SURGERY*
  Leeper, N. J., Myers, J., Zhou, M., Nead, K. T., Syed, A., Kojima, Y., Caceres, R. D., Cooke, J. P.
  2013; 57 (3): 728-733
- **The role of dimethylarginine dimethylaminohydrolase (DDAH) in pulmonary fibrosis** *JOURNAL OF PATHOLOGY*
  Janssen, W., Pullamsetti, S. S., Cooke, J., Weissmann, N., Guenther, A., Schermuly, R. T.
  2013; 229 (2): 242-249
- **FXR agonist INT-747 upregulates DDAH expression and enhances insulin sensitivity in high-salt fed Dahl rats.** *PloS one*
  Ghebremariam, Y. T., Yamada, K., Lee, J. C., Johnson, C. L., Atzler, D., Anderssohn, M., Agrawal, R., Higgins, J. P., Patterson, A. J., Böger, R. H., Cooke, J. P.
  2013; 8 (4)
- **Human induced pluripotent stem cell-derived endothelial cells exhibit functional heterogeneity.** *American journal of translational research*
  Rufaihah, A. J., Huang, N. F., Kim, J., Herold, J., Volz, K. S., Park, T. S., Lee, J. C., Zambidis, E. T., Reijo-Pera, R., Cooke, J. P.
  2013; 5 (1): 21-35
- **Limited Gene Expression Variation in Human Embryonic Stem Cell and Induced Pluripotent Stem Cell-Derived Endothelial Cells** *STEM CELLS*

White, M. P., Rufaihah, A. J., Liu, L., Ghebremariam, Y. T., Ivey, K. N., Cooke, J. P., Srivastava, D.
2013; 31 (1): 92-103

- **A validated biomarker panel to identify peripheral artery disease** *VASCULAR MEDICINE*
  Hiatt, W. R., Zakharyan, A., Fung, E. T., Crutcher, G., Smith, A., Stanford, C., Cooke, J.
  2012; 17 (6): 386-393

- **PPAR delta Activation Protects Endothelial Function in Diabetic Mice** *DIABETES*
  Tian, X. Y., Wong, W. T., Wang, N., Lu, Y., Cheang, W. S., Liu, J., Liu, L., Liu, Y., Lee, S. S., Chen, Z. Y., Cooke, J. P., Yao, X., Huang, et al
  2012; 61 (12): 3285-3293

- **Nicotine and pathological angiogenesis** *3rd International Symposium on Non-Neuronal Acetylcholine*
  Lee, J., Cooke, J. P.
  PERGAMON-ELSEVIER SCIENCE LTD.2012: 1058–64

- **Aligned nanofibrillar collagen regulates endothelial organization and migration** *REGENERATIVE MEDICINE*
  Lai, E. S., Huang, N. F., Cooke, J. P., Fuller, G. G.
  2012; 7 (5): 649-661

- **Genetics of Peripheral Artery Disease** *CIRCULATION*
  Leeper, N. J., Kullo, I. J., Cooke, J. P.
  2012; 125 (25): 3220-3228

- **Development of a Dimethylarginine Dimethylaminohydrolase (DDAH) Assay for High-Throughput Chemical Screening** *JOURNAL OF BIOMOLECULAR SCREENING*
  Ghebremariam, Y. T., Erlanson, D. A., Yamada, K., Cooke, J. P.
  2012; 17 (5): 651-661

- **Endovascular correction of cerebrovenous anomalies in multiple sclerosis: A retrospective review of an uncontrolled case series** *VASCULAR MEDICINE*
  Dake, M. D., Dantzker, N., Bennett, W. L., Cooke, J. P.
  2012; 17 (3): 131-137

- **Genetic determinants of the ankle-brachial index: A meta-analysis of a cardiovascular candidate gene 50K SNP panel in the candidate gene association resource (CARe) consortium** *ATHEROSCLEROSIS*
  Wassel, C. L., Lamina, C., Nambi, V., Coassin, S., Mukamal, K. J., Ganesh, S. K., Jacobs, D. R., Franceschini, N., Papanicolaou, G. J., Gibson, Q., Yanek, L. R., van der Harst, P., Ferguson, et al
  2012; 222 (1): 138-147

- **Imaging Vascular Nicotine Receptors A New Window Onto Vascular Disease** *JACC-CARDIOVASCULAR IMAGING*
  Cooke, J. P.
  2012; 5 (5): 537-539

- **Development of pluripotent stem cells for vascular therapy** *VASCULAR PHARMACOLOGY*
  Volz, K. S., Miljan, E., Khoo, A., Cooke, J. P.
  2012; 56 (5-6): 288-296

- **Lymphangiogenesis A Potential New Therapy for Lymphedema?** *CIRCULATION*
  Cooke, J. P.
  2012; 125 (7): 853-855

- **Oxidative Stress-Dependent Cyclooxygenase-2-Derived Prostaglandin F-2 alpha Impairs Endothelial Function in Renovascular Hypertensive Rats** *ANTIOXIDANTS & REDOX SIGNALING*
  Tian, X. Y., Wong, W. T., Leung, F. P., Zhang, Y., Wang, Y., Lee, H. K., Ng, C. F., Chen, Z. Y., Yao, X., Au, C. L., Lau, C. W., Vanhoutte, P. M., Cooke, et al
  2012; 16 (4): 363-373

- **In Memoriam of John T. Shepherd, MD, DSc** *CIRCULATION*
  Vanhoutte, P. M., Cooke, J. P., Cohen, R. a.
  2012; 125 (2): 393-394

- **Bioluminescence Imaging of Stem Cell-Based Therapeutics for Vascular Regeneration** *THERANOSTICS*
  Huang, N. F., Okogbaa, J., Babakhanyan, A., Cooke, J. P.
  2012; 2 (4): 346-354

- **Solubility partner IF2 Domain I enables high yield synthesis of transducible transcription factors in Escherichia coli** *PROTEIN EXPRESSION AND PURIFICATION*
  Yang, W. C., Welsh, J. P., Lee, J., Cooke, J. P., Swartz, J. R.
  2011; 80 (1): 145-151

- **Two Decades of Progress in Vascular Medicine** *AMERICAN JOURNAL OF MEDICINE*
  Leeper, N. J., Lee, J. T., Cooke, J. P.
  2011; 124 (9): 791-792

- **Meal-induced increases in C-reactive protein, interleukin-6 and tumour necrosis factor alpha are attenuated by prandial plus basal insulin in patients with Type 2 diabetes** *DIABETIC MEDICINE*
  Beisswenger, P. J., Brown, W. V., Ceriello, A., Le, N. A., Goldberg, R. B., Cooke, J. P., Robbins, D. C., Sarwat, S., Yuan, H., Jones, C. A., Tan, M. H.
  2011; 28 (9): 1088-1095

- **Low lifetime recreational activity is a risk factor for peripheral arterial disease** *JOURNAL OF VASCULAR SURGERY*
  Wilson, A. M., Sadrzadeh-Rafie, A. H., Myers, J., Assimes, T., Nead, K. T., Higgins, M., Gabriel, A., Olin, J., Cooke, J. P.
  2011; 54 (2): 427-432

- **Increased nitric oxide availability attenuates high fat diet metabolic alterations and gene expression associated with insulin resistance** *CARDIOVASCULAR DIABETOLOGY*
  Razny, U., Kiec-Wilk, B., Wator, L., Polus, A., Dyduch, G., Solnica, B., Malecki, M., Tomaszewska, R., Cooke, J. P., Dembinska-Kiec, A.
  2011; 10

- **Identification and Classification of Acute Cardiac Rejection by Intragraft Transcriptional Profiling** *CIRCULATION*
  Holweg, C. T., Potena, L., Luikart, H., Yu, T., Berry, G. J., Cooke, J. P., Valantine, H. A., Mocarski, E. S.
  2011; 123 (20): 2236-U154

- **The role of nicotine in the pathogenesis of atherosclerosis** *ATHEROSCLEROSIS*
  Lee, J., Cooke, J. P.
  2011; 215 (2): 281-283

- **Sex differences in the prevalence of peripheral artery disease in patients undergoing coronary catheterization** *VASCULAR MEDICINE*
  Rafie, A. H., Stefanick, M. L., Sims, S. T., Phan, T., Higgins, M., Gabriel, A., Assimes, T., Narasimhan, B., Nead, K. T., Myers, J., Olin, J., Cooke, J. P.
  2010; 15 (6): 443-450

- **A matrix micropatterning platform for cell localization and stem cell fate determination** *ACTA BIOMATERIALIA*
  Huang, N. F., Patlolla, B., Abilez, O., Sharma, H., Rajadas, J., Beygui, R. E., Zarins, C. K., Cooke, J. P.
  2010; 6 (12): 4614-4621

- **The Emerging Role of the Thioredoxin System in Angiogenesis** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
  Dunn, L. L., Buckle, A. M., Cooke, J. P., Ng, M. K.
  2010; 30 (11): 2089-2098

- **Cholinergic activation of hematopoietic stem cells: role in tobacco-related disease?** *VASCULAR MEDICINE*
  Chang, E., Forsberg, E. C., Wu, J., Wang, B., Prohaska, S. S., Allsopp, R., Weissman, I. L., Cooke, J. P.
  2010; 15 (5): 375-385

- **Stem Cell Therapy for Vascular Regeneration Adult, Embryonic, and Induced Pluripotent Stem Cells** *CIRCULATION*
  Leeper, N. J., Hunter, A. L., Cooke, J. P.
  2010; 122 (5): 517-526

- **Asymmetric dimethylarginine correlates with measures of disease severity, major adverse cardiovascular events and all-cause mortality in patients with peripheral arterial disease** *VASCULAR MEDICINE*
  Wilson, A. M., Shin, D. S., Weatherby, C., Harada, R. K., Ng, M. K., Nair, N., Kielstein, J., Cooke, J. P.
  2010; 15 (4): 267-274

- **DDAH: A target for vascular therapy?** *VASCULAR MEDICINE*
  Cooke, J. P.
  2010; 15 (3): 235-238

- **Relationship of Asymmetric Dimethylarginine and Homocysteine to Vascular Aging in Systemic Lupus Erythematosus Patients** *ARTHRITIS AND RHEUMATISM*
  Perna, M., Roman, M. J., Alpert, D. R., Crow, M. K., Lockshin, M. D., Sammaritano, L., Devereux, R. B., Cooke, J. P., Salmon, J. E.
  2010; 62 (6): 1718-1722

- **Biomarkers of Peripheral Arterial Disease** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Cooke, J. P., Wilson, A. M.
  2010; 55 (19): 2017-2023

- **Topical Mecamylamine for Diabetic Macular Edema** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
  Campochiaro, P. A., Shah, S. M., Hafiz, G., Heier, J. S., Lit, E. S., Zimmer-Galler, I., Channa, R., Nguyen, Q. D., Syed, B., Do, D. V., Lu, L., Monk, J., Cooke, et al
  2010; 149 (5): 839-851

- **Overexpression of Dimethylarginine Dimethylaminohydrolase Protects Against Cerebral Vascular Effects of Hyperhomocysteinemia** *CIRCULATION RESEARCH*
  Rodionov, R. N., Dayoub, H., Lynch, C. M., Wilson, K. M., Stevens, J. W., Murry, D. J., Kimoto, M., Arning, E., Bottiglieri, T., Cooke, J. P., Baumbach, G. L., Faraci, F. M., Lentz, et al
  2010; 106 (3): 551-U65

- **Chronic exposure to nicotine impairs cholinergic angiogenesis** *VASCULAR MEDICINE*
  Konishi, H., Wu, J., Cooke, J. P.
  2010; 15 (1): 47-54

- **Assessing endothelial vasodilator function with the Endo-PAT 2000.** *Journal of visualized experiments : JoVE*
  Axtell, A. L., Gomari, F. A., Cooke, J. P.
  2010

- **Cell-Free Production of Transducible Transcription Factors for Nuclear Reprogramming** *BIOTECHNOLOGY AND BIOENGINEERING*
  Yang, W. C., Patel, K. G., Lee, J., Ghebremariam, Y. T., Wong, H. E., Cooke, J. P., Swartz, J. R.
  2009; 104 (6): 1047-1058

- **Extensive characterization of the human DDAH1 transgenic mice** *PHARMACOLOGICAL RESEARCH*
  Schwedhelm, E., von Leitner, E., Atzler, D., Schmitz, C., Jacobi, J., Meinertz, T., Muenzel, T., Baldus, S., Cooke, J. P., Boeger, R. H., Maas, R., Sydow, K.
  2009; 60 (6): 494-502

- **Does improving mood in depressed patients alter factors that may affect cardiovascular disease risk?** *JOURNAL OF PSYCHIATRIC RESEARCH*
  Taylor, C. B., Conrad, A., Wilhelm, F. H., Strachowski, D., Khaylis, A., Neri, E., Giese-Davis, J., Roth, W. T., Cooke, J. P., Kraemer, H., Spiegel, D.
  2009; 43 (16): 1246-1252

- **nAChRs Mediate Human Embryonic Stem Cell-Derived Endothelial Cells: Proliferation, Apoptosis, and Angiogenesis** *PLOS ONE*
  Yu, J., Huang, N. F., Wilson, K. D., Velotta, J. B., Huang, M., Li, Z., Lee, A., Robbins, R. C., Cooke, J. P., Wu, J. C.
  2009; 4 (9)

- **Hypercholesterolemia impairs exercise capacity in mice** *VASCULAR MEDICINE*
  Maxwell, A. J., Niebauer, J., Lin, P. S., Tsao, P. S., Bernstein, D., Cooke, J. P.
  2009; 14 (3): 249-257

- **Bone morphogenetic protein 2 induces pulmonary angiogenesis via Wnt-beta-catenin and Wnt-RhoA-Rac1 pathways** *JOURNAL OF CELL BIOLOGY*
  Perez, V. A., Alastalo, T., Wu, J. C., Axelrod, J. D., Cooke, J. P., Amieva, M., Rabinovitch, M.
  2009; 184 (1): 83-99

- **Murine model of hindlimb ischemia.** *Journal of visualized experiments : JoVE*
  Niiyama, H., Huang, N. F., Rollins, M. D., Cooke, J. P.

2009

- **Endothelial Nicotinic Acetylcholine Receptors and Angiogenesis** *TRENDS IN CARDIOVASCULAR MEDICINE*
  Cooke, J. P., Ghebremariam, Y. T.
  2008; 18 (7): 247-253

- **Asymmetric dimethylarginine and cardiac allograft vasculopathy progression: Modulation by sirolimus** *TRANSPLANTATION*
  Potena, L., Fearon, W. F., Sydow, K., Holweg, C., Luikart, H., Chin, C., Weisshaar, D., Mocarski, E. S., Lewis, D. B., Valantine, H. A., Cooke, J. P.
  2008; 85 (6): 827-833

- **Two cardiovascular risk factors in one? Homocysteine and its relation to glomerular filtration rate** *KIDNEY & BLOOD PRESSURE RESEARCH*
  Kielstein, J. T., Salpeter, S. R., Buckley, N. S., Cooke, J. P., Fliser, D.
  2008; 31 (4): 259-267

- **Overexpression of dimethylarginine dimethylaminohydrolase inhibits asymmetric dimethylarginine-induced endothelial dysfunction in the cerebral circulation** *STROKE*
  Dayoub, H., Rodionov, R., Lynch, C., Cooke, J. P., Arning, E., Bottiglieri, T., Lentz, S. R., Faraci, F. M.
  2008; 39 (1): 180-184

- **Genetic susceptibility to peripheral arterial disease: A dark corner in vascular biology** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
  Knowles, J. W., Assimes, T. L., Li, J., Quertermous, T., Cooke, J. P.
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