

Stanford



John P. Cooke, MD, PhD

Professor of Medicine (Cardiovascular Medicine), Emeritus

Medicine - Cardiovascular Medicine

NIH Biosketch available Online

Curriculum Vitae available Online

Resume available Online

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - 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 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

CLINICAL TRIALS

- Exercise Therapy to Treat Adults With Abdominal Aortic Aneurysms, Not Recruiting

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*
Rufaiyah, 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., Niyyama, 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., Niyyama, 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*
Rufaiyah, 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., Rufaiyah, 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., Tomaszecka, 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., Valentine, 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., Valentine, 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.
2007; 27 (10): 2068-2078
- beta 2-microglobulin as a biomarker in peripheral arterial disease - Proteomic profiling and clinical studies *CIRCULATION*
Wilson, A. M., Kimura, E., Harada, R. K., Nair, N., Narasimhan, B., Meng, X., Zhang, F., Beck, K. R., Olin, J. W., Fung, E. T., Cooke, J. P.
2007; 116 (12): 1396-1403
- Differentiation, survival, and function of embryonic stem cell-derived endothelial cells for ischemic heart disease *79th Annual Scientific Session of the American Heart Association*
Li, Z., Wu, J. C., Sheikh, A. Y., Kraft, D., Cao, F., Xie, X., Patel, M., Gambhir, S. S., Robbins, R. C., Cooke, J. P., Wu, J. C.
LIPPINCOTT WILLIAMS & WILKINS.2007: I46-I54
- L-arginine supplementation in peripheral arterial disease - No benefit and possible harm *CIRCULATION*
Wilson, A. M., Harada, R., Nair, N., Balasubramanian, N., Cooke, J. P.
2007; 116 (2): 188-195
- Frequent occult infection with cytomegalovirus in cardiac transplant recipients despite antiviral prophylaxis *JOURNAL OF CLINICAL MICROBIOLOGY*
Potena, L., Holweg, C. T., Vana, M. L., Bashyam, L., Rajamani, J., McCormick, A. L., Cooke, J. P., Valentine, H. A., Mocarski, E. S.
2007; 45 (6): 1804-1810
- A novel bioluminescent tumor model of human renal cancer cell lines: An in vitro and in vivo characterization *JOURNAL OF UROLOGY*
Peter, C., Kielstein, J. T., Clarke-Katzenberg, R., Adams, M. C., Pitsiouni, M., Kambham, N., Karimi, M. A., Kengatharan, K. M., Cooke, J. P.
2007; 177 (6): 2342-2346
- Angiogenesis and the role of the endothelial nicotinic acetylcholine receptor *2nd International Symposium on Non-Neuronal Acetylcholine*
Cooke, J. P.
PERGAMON-ELSEVIER SCIENCE LTD.2007: 2347-51
- NOx and ADMA changes with focal ischemia, amelioration with the chaperonin GroEL *NEUROSCIENCE LETTERS*
Xu, L., Wang, B., Kaur, K., Kho, M. F., Cooke, J. P., Giffard, R. G.
2007; 418 (2): 201-204
- Changes in coronary arterial dimensions early after cardiac transplantation *TRANSPLANTATION*
Fearon, W. F., Potena, L., Hirohata, A., Sakurai, R., Yamasaki, M., Luikart, H., Lee, J., Vana, M. L., Cooke, J. P., Mocarski, E. S., Yeung, A. C., Valentine, H. A.
2007; 83 (6): 700-705
- Dimethylarginine dimethylaminohydrolase promotes endothelial repair after vascular injury *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Konishi, H., Sydow, K., Cooke, J. P.
2007; 49 (10): 1099-1105
- Nonbone marrow-derived circulating progenitor cells contribute to postnatal neovascularization following tissue ischemia *CIRCULATION RESEARCH*
Aicher, A., Rentsch, M., Sasaki, K., Ellwart, J. W., Faendrich, F., Siebert, R., Cooke, J. P., Dimmeler, S., Heeschen, C.
2007; 100 (4): 581-589
- Should we measure asymmetric dimethylarginine in patients with coronary artery disease? *CLINICAL CHEMISTRY*
Kielstein, J. T., Cooke, J. P.
2007; 53 (2): 161-163
- Endothelial progenitor cells participate in nicotine-mediated angiogenesis *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Heeschen, C., Chang, E., Aicher, A., Cooke, J. P.
2006; 48 (12): 2553-2560

- **Microenvironmental VEGF distribution is critical for stable and functional vessel growth in ischemia** *FASEB JOURNAL*
von Degenfeld, G., Banfi, A., Springer, M. L., Wagner, R. A., Jacobi, J., Ozawa, C. R., Merchant, M. J., Cooke, J. P., Blau, H. M.
2006; 20 (14): 2657-?
- **A pilot study of ranolazine in patients with intermittent claudication** *INTERNATIONAL ANGIOLOGY*
Ma, A., Garland, W. T., Smith, W. B., Skettino, S., Navarro, M. T., Chan, A. Q., Anderson, B. E., Cooke, J. P.
2006; 25 (4): 361-369
- **T-cell immunity to subclinical cytomegalovirus infection reduces cardiac allograft disease** *CIRCULATION*
Tu, W., Potena, L., Stepick-Biek, P., Liu, L., Dionis, K. Y., Luikart, H., Fearon, W. F., Holmes, T. H., Chin, C., Cooke, J. P., Valentine, H. A., Mocarski, E. S., Lewis, et al
2006; 114 (15): 1608-1615
- **Symmetric dimethylarginine (SDMA) as endogenous marker of renal function - a meta-analysis** *NEPHROLOGY DIALYSIS TRANSPLANTATION*
Kielstein, J. T., Salpeter, S. R., Bode-Boeger, S. M., Cooke, J. P., Fliser, D.
2006; 21 (9): 2446-2451
- **Acute rejection and cardiac allograft vascular disease is reduced by suppression of subclinical cytomegalovirus infection** *TRANSPLANTATION*
Potena, L., Holweg, C. T., Chin, C., Luikart, H., Weisshaar, D., Narasimhan, B., Fearon, W. F., Lewis, D. B., Cooke, J. P., Mocarski, E. S., Valentine, H. A.
2006; 82 (3): 398-405
- **ADMA increases arterial stiffness and decreases cerebral blood flow in humans** *STROKE*
Kielstein, J. T., Donnerstag, F., Gasper, S., Menne, J., Kielstein, A., Martens-Lobenhoffer, J., Scalera, F., Cooke, J. P., Fliser, D., Bode-Boeger, S. M.
2006; 37 (8): 2024-2029
- **Psychophysiological and cortisol responses to psychological stress in depressed and nondepressed older men and women with elevated cardiovascular disease risk** *PSYCHOSOMATIC MEDICINE*
Taylor, C. B., Conrad, A., Wilhelm, F. H., Neri, E., DeLorenzo, A., Kramer, M. A., Giese-Davis, J., Roth, W. T., Oka, R., Cooke, J. P., Kraemer, H., Spiegel, D.
2006; 68 (4): 538-546
- **The time has come for vascular medicine** *VASCULAR MEDICINE*
Cooke, J. P.
2006; 11 (3): 177-180
- **Limb hemodynamics are not predictive of functional capacity in patients with PAD** *VASCULAR MEDICINE*
Szuba, A., Oka, R. K., Harada, R., Cooke, J. P.
2006; 11 (3): 155-163
- **ADMA: its role in vascular disease** *2nd International Symposium on AMDA - An Emerging Cardiovascular Risk Factor*
Cooke, J. P.
SAGE PUBLICATIONS LTD.2005: S11-S17
- **Insulin resistance: potential role of the endogenous nitric oxide synthase inhibitor ADMA** *2nd International Symposium on AMDA - An Emerging Cardiovascular Risk Factor*
Sydow, K., Mondon, C. E., Cooke, J. P.
SAGE PUBLICATIONS LTD.2005: S35-S43
- **Mechanisms of Raynaud's disease** *VASCULAR MEDICINE*
Cooke, J. P., Marshall, J. M.
2005; 10 (4): 293-307
- **ADMA regulates angiogenesis: genetic and metabolic evidence** *VASCULAR MEDICINE*
Achan, V., Ho, H. K., Heeschen, C., Stuehlinger, M., Jang, J. J., Kimoto, M., Vallance, P., Cooke, J. P.
2005; 10 (1): 7-14
- **Vascular compliance versus flow-mediated vasodilation: correlation with cardiovascular risk factors** *VASCULAR MEDICINE*
Nair, N., Oka, R. K., Waring, L. D., Umoh, E. M., Taylor, C. B., Cooke, J. P.
2005; 10 (4): 275-283
- **Capillary electrophoretic and micellar electrokinetic separations of asymmetric dimethyl-L-arginine and structurally related amino acids: Quantitation in human plasma** *JOURNAL OF SEPARATION SCIENCE*

Trapp, G., Sydow, K., Dulay, M. T., Chou, T., Cooke, J. P., Zare, R. N.
2004; 27 (17-18): 1483-1490

● **Adenoviral gene transfer with soluble vascular endothelial growth factor receptors impairs angiogenesis and perfusion in a murine model of hindlimb ischemia** *CIRCULATION*

Jacobi, J., Tam, B. Y., Wu, G., Hoffman, J., Cooke, J. P., Kuo, C. J.
2004; 110 (16): 2424-2429

● **The pivotal role of nitric oxide for vascular health** *Advances in Vascular Biology Symposium*

Cooke, J. P.
PULSUS GROUP INC.2004: 7B–15B

● **Developmental endothelial locus-1 (Del-1), a novel angiogenic protein - Its role in ischemia** *CIRCULATION*

Ho, H. K., Jang, J. J., Kaji, S., Spektor, G., Fong, A., Yang, P., Hu, B. S., Schatzman, R., Quertermous, T., Cooke, J. P.
2004; 109 (10): 1314-1319

● **Cytomegalovirus infection impairs the nitric oxide synthase pathway - Role of asymmetric dimethylarginine in transplant arteriosclerosis** *CIRCULATION*

Weis, M., Kledal, T. N., LIN, K. Y., Panchal, S. N., Gao, S. Z., Valantine, H. A., Mocarski, E. S., Cooke, J. P.
2004; 109 (4): 500-505

● **Discordant effects of a soluble VEGF receptor on wound healing and angiogenesis** *GENE THERAPY*

Jacobi, J., Tam, B. Y., Sundram, U., von Degenfeld, G., Blau, H. M., Kuo, C. J., Cooke, J. P.
2004; 11 (3): 302-309

● **Nicotine and angiogenesis: a new paradigm for tobacco-related diseases** *ANNALS OF MEDICINE*

Cooke, J. P., Bitterman, H.
2004; 36 (1): 33-40

● **Isoflavones improve vascular reactivity in post-menopausal women with hypercholesterolemia** *VASCULAR MEDICINE*

Lissin, L. W., Oka, R., Lakshmi, S., Cooke, J. P.
2004; 9 (1): 26-30

● **NO and angiogenesis** *1st International Symposium on ADMA as A Risk Factor*

Cooke, J. P.
ELSEVIER IRELAND LTD.2003: 53–60

● **A novel mechanism for pulmonary arterial hypertension?** *CIRCULATION*

Cooke, J. P.
2003; 108 (12): 1420-1421

● **Endothelial dysfunction induced by hyperhomocyst(e)inemia - Role of asymmetric dimethylarginine** *CIRCULATION*

Stuhlinger, M. C., Oka, R. K., Graf, E. E., Schmolzer, I., Upson, B. M., Kapoor, O., Szuba, A., Malinow, M. R., Wascher, T. C., Pachinger, O., Cooke, J. P.
2003; 108 (8): 933-938

● **NOS inhibition accelerates atherosclerosis: reversal by exercise** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*

Niebauer, J., Maxwell, A. J., Lin, P. S., Wang, D., Tsao, P. S., Cooke, J. P.
2003; 285 (2): H535-H540

● **Flow-responsive remodeling after angioplasty is enhanced by high cholesterol diet. Prevention with pyrrolidine dithiocarbamate** *ATHEROSCLEROSIS*

Ward, M. R., Tsao, P. S., Herity, N. A., Cooke, J. P., Yeung, A. C.
2003; 168 (2): 333-341

● **Cardiac allograft vasculopathy and dysregulation of the NO synthase pathway** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*

Weis, M., Cooke, J. P.
2003; 23 (4): 567-575

● **Nicotine promotes arteriogenesis** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*

Heeschen, C., Weis, M., Cooke, J. P.
2003; 41 (3): 489-496

- **Flow, NO, and atherogenesis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Cooke, J. P.
2003; 100 (3): 768-770
- **Short polymers of arginine rapidly translocate into vascular cells - Effects on nitric oxide synthesis** *CIRCULATION JOURNAL*
Uemura, S., Rothbard, J. B., Matsushita, H., Tsao, P. S., Fathman, C. G., Cooke, J. P.
2002; 66 (12): 1155-1160
- **Endothelial determinants of dendritic cell adhesion and migration - New implications for vascular diseases** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Weis, M., Schlichting, C. L., Engleman, E. G., Cooke, J. P.
2002; 22 (11): 1817-1823
- **Nicotine accelerates angiogenesis and wound healing in genetically diabetic mice** *AMERICAN JOURNAL OF PATHOLOGY*
Jacobi, J., Jang, J. J., Sundram, U., Dayoub, H., Fajardo, L. F., Cooke, J. P.
2002; 161 (1): 97-104
- **Metformin treatment lowers asymmetric dimethylarginine concentrations in patients with type 2 diabetes** *METABOLISM-CLINICAL AND EXPERIMENTAL*
Asagami, T., Abbasi, F., Stuhlinger, M., Lamendola, C., McLaughlin, T., Cooke, J. P., Reaven, G. M., Tsao, P. S.
2002; 51 (7): 843-846
- **Relationship between insulin resistance and an endogenous nitric oxide synthase inhibitor** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Stuhlinger, M. C., Abbasi, F., Chu, J. W., Lamendola, C., McLaughlin, T. L., Cooke, J. P., Reaven, G. M., Tsao, P. S.
2002; 287 (11): 1420-1426
- **Effect of local delivery of L-arginine on in-stent restenosis in humans** *AMERICAN JOURNAL OF CARDIOLOGY*
Suzuki, T., Hayase, M., Hibi, K., Hosokawa, H., Yokoya, K., Fitzgerald, P. J., Yock, P. G., Cooke, J. P., Suzuki, T., Yeung, A. C.
2002; 89 (4): 363-367
- **Statins have biphasic effects on angiogenesis** *CIRCULATION*
Weis, M., Heeschen, C., Glassford, A. J., Cooke, J. P.
2002; 105 (6): 739-745
- **Homocysteine impairs the nitric oxide synthase pathway - Role of asymmetric dimethylarginine** *CIRCULATION*
Stuhlinger, M. C., Tsao, P. S., Her, J. H., Kimoto, M., Balint, R. F., Cooke, J. P.
2001; 104 (21): 2569-2575
- **Plasma concentrations of asymmetric dimethylarginine are increased in patients with type 2 diabetes mellitus** *AMERICAN JOURNAL OF CARDIOLOGY*
Abbasi, F., Asagmi, T., Cooke, J. P., Lamendola, C., McLaughlin, T., Reaven, G. M., Stuehlinger, M., Tsao, P. S.
2001; 88 (10): 1201-?
- **eNOS activity is reduced in senescent human endothelial cells - Preservation by hTERT immortalization** *CIRCULATION RESEARCH*
Matsushita, H., Chang, E., Glassford, A. J., Cooke, J. P., Chiu, C. P., Tsao, P. S.
2001; 89 (9): 793-798
- **Cholesterol-induced upregulation of angiotensin II and its effects on monocyte-endothelial interaction and superoxide production** *VASCULAR MEDICINE*
Niebauer, J., Tsao, P. S., Lin, P. S., Pratt, R. E., Cooke, J. P.
2001; 6 (3): 133-138
- **Atherogenesis and the arginine hypothesis.** *Current atherosclerosis reports*
Cooke, J. P., Oka, R. K.
2001; 3 (3): 252-259
- **L-Arginine enhances aerobic exercise capacity in association with augmented nitric oxide production** *JOURNAL OF APPLIED PHYSIOLOGY*
Maxwell, A. J., Ho, H. V., Le, C. Q., Lin, P. S., Bernstein, D., Cooke, J. P.
2001; 90 (3): 933-938
- **Nicotine is an agent of angiogenesis. Nicotine stimulates angiogenesis and promotes tumor growth and atherosclerosis.** *Nat Med*
Heeschen C, et al

2001; 7 (7): 833-9

● **Maintaining the endothelium: preventive strategies for vessel integrity.** *Preventive cardiology*

Lissin, L. W., Cooke, J. P.
2001; 4 (1): 28-37

● **An endogenous inhibitor of nitric oxide synthase regulates endothelial adhesiveness for monocytes** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*

Boger, R. H., Bode-Boger, S. M., Tsao, P. S., Lin, P. S., Chan, J. R., Cooke, J. P.
2000; 36 (7): 2287-2295

● **Rapid and efficient vascular transport of arginine polymers inhibits myointimal hyperplasia** *CIRCULATION*

Uemura, S., Fathman, C. G., Rothbard, J. B., Cooke, J. P.
2000; 102 (21): 2629-2635

● **Photoangioplasty for human peripheral atherosclerosis - Results of a phase I trial of photodynamic therapy with motexafin lutetium (Antrin)** *72nd Annual Scientific Session of the American Heart Association*

Rockson, S. G., Kramer, P., Razavi, M., Szuba, A., Filardo, S., Fitzgerald, P., Cooke, J. P., Yousuf, S., DeVault, A. R., Renschler, M. F., Adelman, D. C.
LIPPINCOTT WILLIAMS & WILKINS.2000: 2322-24

● **Maintaining the endothelium: preventive strategies for vessel integrity.** *Preventive cardiology*

Wroblewski Lissin, L., Cooke, J. P.
2000; 3 (4): 172-177

● **Angiogenesis is impaired by hypercholesterolemia - Role of asymmetric dimethylarginine** *CIRCULATION*

Jang, J. J., Ho, H. K., Kwan, H. H., Fajardo, L. F., Cooke, J. P.
2000; 102 (12): 1414-1419

● **Decongestive lymphatic therapy for patients with cancer-related or primary lymphedema** *AMERICAN JOURNAL OF MEDICINE*

Szuba, A., Cooke, J. P., Yousuf, S., Rockson, S. G.
2000; 109 (4): 296-300

● **Does ADMA cause endothelial dysfunction?** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*

Cooke, J. P.
2000; 20 (9): 2032-2037

● **Differential expression of nitric oxide by dermal microvascular endothelial cells from patients with scleroderma** *VASCULAR MEDICINE*

Romero, L. I., Zhang, D. N., Cooke, J. P., Ho, H. K., Avalos, E., Herrera, R., Herron, G. S.
2000; 5 (3): 147-158

● **Phytoestrogens and cardiovascular health** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*

Lissin, L. W., Cooke, J. P.
2000; 35 (6): 1403-1410

● **Asymmetric dimethylarginine increases mononuclear cell adhesiveness in hypercholesterolemic humans** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*

Chan, J. R., Boger, R. H., Bode-Boger, S. M., Tangphao, O., Tsao, P. S., Blaschke, T. F., Cooke, J. P.
2000; 20 (4): 1040-1046

● **The endothelium: a new target for therapy** *VASCULAR MEDICINE*

Cooke, J. P.
2000; 5 (1): 49-53

● **Local L-arginine delivery after balloon angioplasty reduces monocyte binding and induces apoptosis** *CIRCULATION*

Niebauer, J., Schwarzacher, S. P., Hayase, M., Wang, B. Y., Kernoff, R. S., Cooke, J. P., Yeung, A. C.
1999; 100 (17): 1830-1835

● **Gene transfer of nitric oxide synthase - Effects on endothelial biology** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*

Niebauer, J., Dulak, J., Chan, J. R., Tsao, P. S., Cooke, J. P.
1999; 34 (4): 1201-1207

- **Mononuclear cell adherence to cultured endothelium is enhanced by hypertension and insulin resistance in healthy nondiabetic volunteers** *CIRCULATION*
Chen, N. G., Abbasi, F., Lamendola, C., McLaughlin, T., Cooke, J. P., Tsao, P. S., Reaven, G. M.
1999; 100 (9): 940-943
- **Novel mechanism for endothelial dysfunction - Dysregulation of dimethylarginine dimethylaminohydrolase** *CIRCULATION*
Ito, A., Tsao, P. S., Adimoolam, S., Kimoto, M., Ogawa, T., Cooke, J. P.
1999; 99 (24): 3092-3095
- **Fibroblast growth factor as therapy for critical limb ischemia: a case report** *VASCULAR MEDICINE*
Cooke, J. P., Bhatnagar, R., Szuba, A., Rockson, S. G.
1999; 4 (2): 89-91
- **Impaired aerobic capacity in hypercholesterolemic mice: partial reversal by exercise training** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
Niebauer, J., Maxwell, A. J., Lin, P. S., Tsao, P. S., Kosek, J., Bernstein, D., Cooke, J. P.
1999; 276 (4): H1346-H1354
- **Regression of atherosclerosis - Role of nitric oxide and apoptosis** *CIRCULATION*
Wang, B. Y., Ho, H. K., Lin, P. S., Schwarzacher, S. P., Pollman, M. J., Gibbons, G. H., Tsao, P. S., Cooke, J. P.
1999; 99 (9): 1236-1241
- **L-arginine and nitric oxide-related compounds in plasma: comparison of normal and arginine-free diets in a 24-h crossover study** *VASCULAR MEDICINE*
Tangphao, O., Chalon, S., Coulston, A. M., Moreno, H., Chan, J. R., Cooke, J. P., Hoffman, B. B., Blaschke, T. F.
1999; 4 (1): 27-32
- **[Endogenous nitric oxide synthase inhibitor: a novel marker of atherosclerosis]** *Journal of cardiology*
Miyazaki, H., Matsuoka, H., Cooke, J. P., Usui, M., Ueda, S., Okuda, S., Imaizumi, T.
1999; 33 (2): 105-106
- **Nutriceuticals for cardiovascular health** *Symposium on Endothelial Function and Cardiovascular Disease - Potential Mechanisms and Interventions, at the Vascular-Biology-Working-Group Meeting*
Cooke, J. P.
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.1998: 43S-45S
- **Asymmetric dimethylarginine (ADMA): A novel risk factor for endothelial dysfunction - Its role in hypercholesterolemia** *CIRCULATION*
Boger, R. H., Bode-Boger, S. M., Szuba, A., Tsao, P. S., Chan, J. R., Tangphao, O., Blaschke, T. F., Cooke, J. P.
1998; 98 (18): 1842-1847
- **Is atherosclerosis an arginine deficiency disease?** *JOURNAL OF INVESTIGATIVE MEDICINE*
Cooke, J. P.
1998; 46 (8): 377-380
- **Limb blood flow during exercise is dependent on nitric oxide** *CIRCULATION*
Maxwell, A. J., Schauble, E., Bernstein, D., Cooke, J. P.
1998; 98 (4): 369-374
- **Interaction of diabetes and hypertension on determinants of endothelial adhesiveness** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Tsao, P. S., Niebauer, J., Buitrago, R., Lin, P. S., Wang, B. Y., Cooke, J. P., CHEN, Y. D., Reaven, G. M.
1998; 18 (6): 947-953
- **Thromboangiitis obliterans an update on Buerger's disease** *WESTERN JOURNAL OF MEDICINE*
Szuba, A., Cooke, J. P.
1998; 168 (4): 255-260
- **Cardiovascular effects of L-arginine** *CURRENT OPINION IN NEPHROLOGY AND HYPERTENSION*
Maxwell, A. J., Cooke, J. P.
1998; 7 (1): 63-70
- **Endothelial alterations in hypercholesterolemia: More than simply vasodilator dysfunction** *1st Meeting of the International Scientific Faculty on Endothelial Function*

- Tsao, P. S., Cooke, J. P.
LIPPINCOTT WILLIAMS & WILKINS.1998: S48–S53
- **Images in vascular medicine. Phlegmasia coerulea dolens--venous gangrene.** *Vascular medicine*
Szuba, A., Cooke, J. P., Rockson, S. G.
1998; 3 (1): 29-31
 - **Peripheral arterial insufficiency: mechanisms, natural history, and therapeutic options.** *Advances in internal medicine*
Rockson, S. G., Cooke, J. P.
1998; 43: 253-277
 - **Adhesiveness of mononuclear cells in hypercholesterolemic humans is normalized by dietary L-arginine** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Theilmeier, G., Chan, J. R., Zalpour, C., Anderson, B., Wang, B. Y., Wolf, A., Tsao, P. S., Cooke, J. P.
1997; 17 (12): 3557-3564
 - **Anti-CD43 inhibits monocyte-endothelial adhesion in inflammation and atherogenesis** *BLOOD*
McEvoy, L. M., JUTILA, M. A., Tsao, P. S., Cooke, J. P., BUTCHER, E. C.
1997; 90 (9): 3587-3594
 - **Therapeutic interventions in endothelial dysfunction: endothelium as a target organ.** *Clinical cardiology*
Cooke, J. P.
1997; 20 (11): II-45 51
 - **Adherence of mononuclear cells to endothelium in vitro is increased in patients with NIDDM** *DIABETES CARE*
Carantoni, M., Abbasi, F., Chu, L., CHEN, Y. D., Reaven, G. M., Tsao, P. S., Varasteh, B., Cooke, J. P.
1997; 20 (9): 1462-1465
 - **Nitric oxide regulates monocyte chemotactic protein-1** *CIRCULATION*
Tsao, P. S., Wang, B. Y., Buitrago, R., Shyy, J. Y., Cooke, J. P.
1997; 96 (3): 934-940
 - **Novel vascular molecule involved in monocyte adhesion to aortic endothelium in models of atherosclerosis** *JOURNAL OF EXPERIMENTAL MEDICINE*
McEvoy, L. M., Sun, H. L., Tsao, P. S., Cooke, J. P., Berliner, J. A., BUTCHER, E. C.
1997; 185 (12): 2069-2077
 - **Local intramural delivery of L-arginine enhances nitric oxide generation and inhibits lesion formation after balloon angioplasty** *CIRCULATION*
Schwarzacher, S. P., Lim, T. T., Wang, B. Y., Kernoff, R. S., Niebauer, J., Cooke, J. P., Yeung, A. C.
1997; 95 (7): 1863-1869
 - **Dietary L-arginine supplementation normalizes platelet aggregation in hypercholesterolemic humans** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Wolf, A., Zalpour, C., Theilmeier, G., Wang, B. Y., Ma, A., Anderson, B., Tsao, P. S., Cooke, J. P.
1997; 29 (3): 479-485
 - **Role of digital artery adrenoceptors in Raynaud's disease.** *Vascular medicine*
Cooke, J. P., Creager, S. J., SCALES, K. M., Ren, C., Tsapatsaris, N. P., BEETHAM, W. P., Creager, M. A.
1997; 2 (1): 1-7
 - **The pathophysiology of peripheral arterial disease: rational targets for drug intervention.** *Vascular medicine*
Cooke, J. P.
1997; 2 (3): 227-230
 - **Nitric oxide synthase: Role in the genesis of vascular disease** *ANNUAL REVIEW OF MEDICINE*
Cooke, J. P., Dzau, V. J.
1997; 48: 489-509
 - **Cardiovascular effects of exercise: Role of endothelial shear stress** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Niebauer, J., Cooke, J. P.
1996; 28 (7): 1652-1660

- **Arginine restores nitric oxide activity and inhibits monocyte accumulation after vascular injury in hypercholesterolemic rabbits** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Wang, B. Y., Candipan, R. C., Arjomandi, M., HSIUN, P. T., Tsao, P. S., Cooke, J. P.
1996; 28 (6): 1573-1579
- **Fluid flow inhibits endothelial adhesiveness - Nitric oxide and transcriptional regulation of VCAM-1** *CIRCULATION*
Tsao, P. S., Buitrago, R., Chan, J. R., Cooke, J. P.
1996; 94 (7): 1682-1689
- **Role of nitric oxide in progression and regression of atherosclerosis** *WESTERN JOURNAL OF MEDICINE*
Cooke, J. P.
1996; 164 (5): 419-424
- **Hypertension-enhanced monocyte adhesion in experimental atherosclerosis** *JOURNAL OF VASCULAR SURGERY*
Tropea, B. I., Huie, P., Cooke, J. P., Tsao, P. S., Sibley, R. K., Zarins, C. K.
1996; 23 (4): 596-605
- **Induction of nitric oxide synthase in the human cardiac allograft is associated with contractile dysfunction of the left ventricle** *CIRCULATION*
Lewis, N. P., Tsao, P. S., Rickenbacher, P. R., Xue, C., Johns, R. A., Haywood, G. A., VONDERLEYEN, H., Trindade, P. T., Cooke, J. P., Hunt, S. A., Billingham, M. E., Valantine, H. A., Fowler, et al
1996; 93 (4): 720-729
- **Regression or progression - Dependency on vascular nitric oxide** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Candipan, R. C., Wang, B. Y., Buitrago, R., Tsao, P. S., Cooke, J. P.
1996; 16 (1): 44-50
- **Felodipine inhibits intimal lesion formation in the hypercholesterolemic rabbit: differential effects on endothelial and monocyte determinants of atherogenesis.** *Vascular medicine*
Wang, B. Y., Niebauer, J., Singer, A. H., Tsao, P. S., Cooke, J. P.
1996; 1 (3): 173-179
- **Acute myocardial infarction in a young woman with systemic lupus erythematosus.** *Vascular medicine*
Fearon, W. F., Cooke, J. P.
1996; 1 (1): 19-23
- **A novel therapy for lymphedema complicated by lymphorrhea.** *Vascular medicine*
Szuba, A., Cooke, J. P., Rockson, S. G.
1996; 1 (4): 247-250
- **EXPOSURE TO SHEAR-STRESS ALTERS ENDOTHELIAL ADHESIVENESS - ROLE OF NITRIC-OXIDE** *CIRCULATION*
Tsao, P. S., Lewis, N. P., Alpert, S., Cooke, J. P.
1995; 92 (12): 3513-3519
- **MEDICAL THERAPY OF PERIPHERAL ARTERIAL OCCLUSIVE DISEASE** *SURGICAL CLINICS OF NORTH AMERICA*
Cooke, J. P., MA, A. O.
1995; 75 (4): 569-579
- **THE ROLE OF CORONARY ANGIOGRAPHY AND CORONARY REVASCULARIZATION BEFORE NONCARDIAC VASCULAR-SURGERY** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Mason, J. J., Owens, D. K., Harris, R. A., Cooke, J. P., Hlatky, M. A.
1995; 273 (24): 1919-1925
- **GENETIC-ENGINEERING OF VEIN GRAFTS RESISTANT TO ATHEROSCLEROSIS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Mann, M. J., Gibbons, G. H., Kernoff, R. S., DIET, F. P., Tsao, P. S., Cooke, J. P., Kaneda, Y., Dzau, V. J.
1995; 92 (10): 4502-4506
- **DISCORDANT EFFECTS OF DIETARY L-ARGININE ON VASCULAR STRUCTURE AND REACTIVITY IN HYPERCHOLESTEROLEMIC RABBITS** *JOURNAL OF CARDIOVASCULAR PHARMACOLOGY*
Singer, A. H., Tsao, P. S., Wang, B. Y., Bloch, D. A., Cooke, J. P.

1995; 25 (5): 710-716

• **FLUID SHEAR-STRESS INDUCES ENDOTHELIAL TRANSFORMING GROWTH-FACTOR-BETA-1 TRANSCRIPTION AND PRODUCTION - MODULATION BY POTASSIUM CHANNEL BLOCKADE** *JOURNAL OF CLINICAL INVESTIGATION*

Ohno, M., Cooke, J. P., Dzau, V. J., Gibbons, G. H.

1995; 95 (3): 1363-1369

• **GENE-THERAPY INHIBITING NEOINTIMAL VASCULAR LESION - IN-VIVO TRANSFER OF ENDOTHELIAL-CELL NITRIC-OXIDE SYNTHASE GENE** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

VONDERLEYEN, H. E., Gibbons, G. H., Morishita, R., Lewis, N. P., Zhang, L., Nakajima, M., Kaneda, Y., Cooke, J. P., Dzau, V. J.

1995; 92 (4): 1137-1141

• **L-ARGININE ATTENUATES PLATELET REACTIVITY IN HYPERCHOLESTEROLEMIC RABBITS** *ARTERIOSCLEROSIS AND THROMBOSIS*

Tsao, P. S., Theilmeier, G., Singer, A. H., Leung, L. L., Cooke, J. P.

1994; 14 (10): 1529-1533

• **THE VASCULOPATHY OF AGING** *JOURNALS OF GERONTOLOGY*

Cooper, L. T., Cooke, J. P., Dzau, V. J.

1994; 49 (5): B191-B196

• **ENHANCED ENDOTHELIAL ADHESIVENESS IN HYPERCHOLESTEROLEMIA IS ATTENUATED BY L-ARGININE** *CIRCULATION*

Tsao, P. S., McEvoy, L. M., Drexler, H., BUTCHER, E. C., Cooke, J. P.

1994; 89 (5): 2176-2182

• **EFFECT OF L-ARGININE ON CORONARY ENDOTHELIAL FUNCTION IN CARDIAC TRANSPLANT RECIPIENTS - RELATION TO VESSEL WALL MORPHOLOGY** *CIRCULATION*

Drexler, H., Fischell, T. A., Pinto, F. J., Chenzbraun, A., Botas, J., Cooke, J. P., Alderman, E. L.

1994; 89 (4): 1615-1623

• **DIETARY ARGININE PREVENTS ATHEROGENESIS IN THE CORONARY-ARTERY OF THE HYPERCHOLESTEROLEMIC RABBIT** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*

Wang, B. Y., Singer, A. H., Tsao, P. S., Drexler, H., Kosek, J., Cooke, J. P.

1994; 23 (2): 452-458

• **VASCULAR INJURY AUGMENTS ADRENERGIC NEUROTRANSMISSION** *CIRCULATION*

Candipan, R. C., HSIUN, P. T., Pratt, R., Cooke, J. P.

1994; 89 (2): 777-784

• **SHEAR-STRESS ELEVATES ENDOTHELIAL CGMP - ROLE OF A POTASSIUM CHANNEL AND G-PROTEIN COUPLING** *CIRCULATION*

Ohno, M., Gibbons, G. H., Dzau, V. J., Cooke, J. P.

1993; 88 (1): 193-197

• **VASCULAR BIOLOGY AND MEDICINE IN THE 1990S - SCOPE, CONCEPTS, POTENTIALS, AND PERSPECTIVES** *CIRCULATION*

Dzau, V. J., Gibbons, G. H., Cooke, J. P., OMOIGUI, N.

1993; 87 (3): 705-719

• **The role of endothelial dysfunction in restenosis.** *Revista portuguesa de cardiologia*

Cooke, J. P., Tsao, P. S.

1992; 11 (10): 889-892

• **ANTIATHEROGENIC EFFECTS OF L-ARGININE IN THE HYPERCHOLESTEROLEMIC RABBIT** *JOURNAL OF CLINICAL INVESTIGATION*

Cooke, J. P., Singer, A. H., Tsao, P., ZERA, P., Rowan, R. A., Billingham, M. E.

1992; 90 (3): 1168-1172

• **FLOW ACTIVATES AN ENDOTHELIAL POTASSIUM CHANNEL TO RELEASE AN ENDOGENOUS NITROVASODILATOR** *JOURNAL OF CLINICAL INVESTIGATION*

Cooke, J. P., Rossitch, E., ANDON, N. A., Loscalzo, J., Dzau, V. J.

1991; 88 (5): 1663-1671

• **ENDOTHELIAL DYSFUNCTION IN HYPERCHOLESTEROLEMIA IS CORRECTED BY L-ARGININE** *BASIC RESEARCH IN CARDIOLOGY*

Cooke, J. P., Dzau, J., Creager, A.

