Stanford

Patricia Nguyen

Associate Professor of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Medicine**

  300 Pasteur Dr

  CVRB 279 MC 5406

  Stanford, CA 94305

  Tel (650) 723-6406 **Fax** (650) 799-5532

Bio

CLINICAL FOCUS

- Cardiovascular Disease

ACADEMIC APPOINTMENTS

- Associate Prof-Univ Med Line, Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Board Certification: Adult Echocardiography, National Board of Echocardiography (2016)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2006)
- Fellowship: Stanford University Cardiovascular Medicine Fellowship (2006) CA
- Residency: Columbia University College of Physicians and Surgeons (2001) NY
- Internship: Scripps Clinic Internal Medicine Residency Program (1998) CA
- Medical Education: Johns Hopkins University School of Medicine (1997) MD

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Honglin Chen, Bo Xia

Publications

PUBLICATIONS

- **Immunotherapy-Associated Atherosclerosis: A Comprehensive Review of Recent Findings and Implications for Future Research** *Current Treatment Options in Cardiovascular Medicine*
  Chan, A., Torelli, S., Cheng, E., Batchelder, R., Waliany, S., Neal, J., Witteles, R., Nguyen, P., Cheng, P., Zhu, H.
  2023
- **The Role of Single-Cell Profiling and Deep Immunophenotyping in Understanding Immune Therapy Cardiotoxicity** *JACC: CardioOncology*
  Huang, Y. V., Waliany, S., Lee, D., Galdos, F. X., Witteles, R. M., Neal, J. W., Fan, A. C., Maecker, H. T., Nguyen, P. K., Wu, S. M., Zhu, H.
  2022; 4 (5): 629–634
- **Cardiovascular Complications in Patients with COVID-19: Consequences of Viral Toxicities and Host Immune Response** *Curr Cardiol Rep*
  Zhu, H., Rhee, J., Cheng, P., Waliany, S., Chang, A., Witteles, R. M., Maecker, H., Davis, M. M., Nguyen, P. K., Wu, S. M.
  2020; 22 (5)
- **Molecular Imaging of Inflammation in Ischemic Heart Disease** *CURRENT CARDIOVASCULAR IMAGING REPORTS*
  Bakerman, I., Wardak, M., Nguyen, P. K.
  2018; 11 (6)
- **Molecular Imaging of Inflammation in Ischemic Heart Disease (vol 11, 2018)** *CURRENT CARDIOVASCULAR IMAGING REPORTS*
  Bakerman, I., Wardak, M., Nguyen, P. K.
  2018; 11 (6)
- **Prolonged survival of transplanted stem cells after ischaemic injury via the slow release of pro-survival peptides from a collagen matrix** *Nature Biomedical Engineering*
  Lee, A. S., Inayathullah, ., Lijkwan, . A., Zhao, X., Sun, W., Park, S., Hong, W. X., Parekh, M. B., Malkovskiy, A. V., Lau, E., Qin, X., Pothineni,, . R., et al
  2018; 2 (2): 104–13
- **The Gift of Light: Using Multiplexed Optical Imaging to Probe Cardiac Metabolism in Health and Disease.** *Circulation. Cardiovascular imaging*
  Wardak, M. n., Nguyen, P. K.
  2018; 11 (3): e007597
- **Multimodality molecular imaging in cardiac regenerative therapy.** *Journal of nuclear cardiology*
  Vo, D., Nguyen, P. K.
  2017
- **Potential Strategies to Address the Major Clinical Barriers Facing Stem Cell Regenerative Therapy for Cardiovascular Disease: A Review.** *JAMA cardiology*
  Nguyen, P. K., Neofytou, E., Rhee, J., Wu, J. C.
  2016; 1 (8): 953-962
- **DNA damage-associated biomarkers in studying individual sensitivity to low-dose radiation from cardiovascular imaging.** *European heart journal*
  Lee, W. H., Nguyen, P. K., Fleischmann, D., Wu, J. C.
  2016; 37 (40): 3075-3080
- **Adult Stem Cell Therapy and Heart Failure, 2000 to 2016: A Systematic Review.** *JAMA cardiology*
  Nguyen, P. K., Rhee, J., Wu, J. C.
  2016; 1 (7): 831-841
- **Molecular probes for cardiovascular imaging.** *Journal of nuclear cardiology*
  Liang, G., Nguyen, P. K.
  2016; 23 (4): 783-789
- **Microfluidic Single-Cell Analysis of Transplanted Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes After Acute Myocardial Infarction.** *Circulation*
  Ong, S., Huber, B. C., Lee, W. H., Kodo, K., Ebert, A. D., Ma, Y., Nguyen, P. K., Diecke, S., Chen, W., Wu, J. C.

2015; 132 (8): 762-771

- **Microfluidic Single-Cell Analysis of Transplanted Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes After Acute Myocardial Infarction** *CIRCULATION*
  Ong, S., Huber, B. C., Hee Lee, W., Kodo, K., Ebert, A. D., Ma, Y., Nguyen, P. K., Diecke, S., Chen, W., Wu, J. C.
  2015; 132 (8): 762-771

- **Assessment of the Radiation Effects of Cardiac CT Angiography Using Protein and Genetic Biomarkers** *JACC-CARDIOVASCULAR IMAGING*
  Nguyen, P. K., Lee, W. H., Li, Y. F., Hong, W. X., Hu, S., Chan, C., Liang, G., Nguyen, I., Ong, S., Churko, J., Wang, J., Altman, R. B., Fleischmann, et al
  2015; 8 (8): 873-884

- **Large Animal Models of Ischemic Cardiomyopathy: Are They Enough to Bridge the Translational Gap?** *Journal of nuclear cardiology*
  Nguyen, P. K., Wu, J. C.
  2015; 22 (4): 666-672

- **Assessment of the Radiation Effects of Cardiac CT Angiography Using Protein and Genetic Biomarkers.** *JACC. Cardiovascular imaging*
  Nguyen, P. K., Lee, W. H., Li, Y. F., Hong, W. X., Hu, S., Chan, C., Liang, G., Nguyen, I., Ong, S., Churko, J., Wang, J., Altman, R. B., Fleischmann, et al
  2015; 8 (8): 873-884

- **Manganese-Enhanced Magnetic Resonance Imaging Enables In Vivo Confirmation of Peri-Infarct Restoration Following Stem Cell Therapy in a Porcine Ischemia-Reperfusion Model.** *Journal of the American Heart Association*
  Dash, R., Kim, P. J., Matsuura, Y., Ikeno, F., Metzler, S., Huang, N. F., Lyons, J. K., Nguyen, P. K., Ge, X., Foo, C. W., McConnell, M. V., Wu, J. C., Yeung, et al
  2015; 4 (7)

- **Variable activation of the DNA damage response pathways in patients undergoing single-photon emission computed tomography myocardial perfusion imaging.** *Circulation. Cardiovascular imaging*
  Lee, W. H., Nguyen, P., Hu, S., Liang, G., Ong, S., Han, L., Sanchez-Freire, V., Lee, A. S., Vasanawala, M., Segall, G., Wu, J. C.
  2015; 8 (2)

- **Variable activation of the DNA damage response pathways in patients undergoing single-photon emission computed tomography myocardial perfusion imaging.** *Circulation. Cardiovascular imaging*
  Hee Lee, W., Nguyen, P., Hu, S., Liang, G., Ong, S., Han, L., Sanchez-Freire, V., Lee, A. S., Vasanawala, M., Segall, G., Wu, J. C.
  2015; 8 (2): e002851

- **Manganese-Enhanced Magnetic Resonance Imaging Enables In Vivo Confirmation of Peri-Infarct Restoration Following Stem Cell Therapy in a Porcine Ischemia-Reperfusion Model.** *Journal of the American Heart Association*
  Dash, R., Kim, P. J., Matsuura, Y., Ikeno, F., Metzler, S., Huang, N. F., Lyons, J. K., Nguyen, P. K., Ge, X., Wong Po Foo, C., McConnell, M. V., Wu, J. C., Yeung, et al
  2015; 4 (7)

- **Stem Cell Imaging: From Bench to Bedside** *CELL STEM CELL*
  Nguyen, P. K., Riegler, J., Wu, J. C.
  2014; 14 (4): 431-444

- **Drug screening using a library of human induced pluripotent stem cell-derived cardiomyocytes reveals disease-specific patterns of cardiotoxicity.** *Circulation*
  Liang, P., Lan, F., Lee, A. S., Gong, T., Sanchez-Freire, V., Wang, Y., Diecke, S., Sallam, K., Knowles, J. W., Wang, P. J., Nguyen, P. K., Bers, D. M., Robbins, et al
  2013; 127 (16): 1677-1691

- **Drug screening using a library of human induced pluripotent stem cell-derived cardiomyocytes reveals disease-specific patterns of cardiotoxicity.** *Circulation*
  Liang, P., Lan, F., Lee, A. S., Gong, T., Sanchez-Freire, V., Wang, Y., Diecke, S., Sallam, K., Knowles, J. W., Wang, P. J., Nguyen, P. K., Bers, D. M., Robbins, et al
  2013; 127 (16): 1677-1691

- **Abnormal Calcium Handling Properties Underlie Familial Hypertrophic Cardiomyopathy Pathology in Patient-Specific Induced Pluripotent Stem Cells** *CELL STEM CELL*

Lan, F., Lee, A. S., Liang, P., Sanchez-Freire, V., Nguyen, P. K., Wang, L., Han, L., Yen, M., Wang, Y., Sun, N., Abilez, O. J., Hu, S., Ebert, et al
2013; 12 (1): 101-113

- **Microfluidic Single-Cell Analysis Shows That Porcine Induced Pluripotent Stem Cell-Derived Endothelial Cells Improve Myocardial Function by Paracrine Activation** *CIRCULATION RESEARCH*
  Gu, M., Nguyen, P. K., Lee, A. S., Xu, D., Hu, S., Plews, J. R., Han, L., Huber, B. C., Lee, W. H., Gong, Y., de Almeida, P. E., Lyons, J., Ikeno, et al
  2012; 111 (7): 882-893

- **Safe Genetic Modification of Cardiac Stem Cells Using a Site-Specific Integration Technique** *Meeting of the American-Heart-Association*
  Lan, F., Liu, J., Narsinh, K. H., Hu, S., Han, L., Lee, A. S., Karow, M., Nguyen, P. K., Nag, D., Calos, M. P., Robbins, R. C., Wu, J. C.
  LIPPINCOTT WILLIAMS & WILKINS.2012: S20-?

- **Early Stem Cell Engraftment Predicts Late Cardiac Functional Recovery Preclinical Insights From Molecular Imaging** *CIRCULATION-CARDIOVASCULAR IMAGING*
  Liu, J., Narsinh, K. H., Lan, F., Wang, L., Nguyen, P. K., Hu, S., Lee, A., Han, L., Gong, Y., Huang, M., Nag, D., Rosenberg, J., Chouldechova, et al
  2012; 5 (4): 481-490

- **Imaging Guiding the Clinical Translation of Cardiac Stem Cell Therapy** *CIRCULATION RESEARCH*
  Nguyen, P. K., Lan, F., Wang, Y., Wu, J. C.
  2011; 109 (8): 962-979

- **Preclinical Derivation and Imaging of Autologously Transplanted Canine Induced Pluripotent Stem Cells** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Lee, A. S., Xu, D., Plews, J. R., Nguyen, P. K., Nag, D., Lyons, J. K., Han, L., Hu, S., Lan, F., Liu, J., Huang, M., Narsinh, K. H., Long, et al
  2011; 286 (37): 32697-32704

- **Novel MicroRNA Prosurvival Cocktail for Improving Engraftment and Function of Cardiac Progenitor Cell Transplantation** *Annual Meeting of the American-Heart-Association*
  Hu, S., Huang, M., Nguyen, P. K., Gong, Y., Li, Z., Jia, F., Lan, F., Liu, J., Nag, D., Robbins, R. C., Wu, J. C.
  LIPPINCOTT WILLIAMS & WILKINS.2011: S27–S34

- **Double Knockdown of Prolyl Hydroxylase and Factor-Inhibiting Hypoxia-Inducible Factor With Nonviral Minicircle Gene Therapy Enhances Stem Cell Mobilization and Angiogenesis After Myocardial Infarction** *Annual Meeting of the American-Heart-Association*
  Huang, M., Nguyen, P., Jia, F., Hu, S., Gong, Y., de Almeida, P. E., Wang, L., Nag, D., Kay, M. A., Giaccia, A. J., Robbins, R. C., Wu, J. C.
  LIPPINCOTT WILLIAMS & WILKINS.2011: S46–S54

- **Imaging Atherosclerosis With F18-Fluorodeoxyglucose Positron Emission Tomography What Are We Actually Seeing?** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Wu, J. C., Nguyen, P. K.
  2011; 58 (6): 615-617

- **Physical Activity in Older Subjects Is Associated With Increased Coronary Vasodilation The ADVANCE Study** *JACC-CARDIOVASCULAR IMAGING*
  Nguyen, P. K., Terashima, M., Fair, J. M., Varady, A., Taylor-Piliae, R. E., Iribarren, C., Go, A. S., Haskell, W. L., Hlatky, M. A., Fortmann, S. P., McConnell, M. V.
  2011; 4 (6): 622-629

- **A comparison of echocardiographic measures of diastolic function for predicting all-cause mortality in a predominantly male population** *AMERICAN HEART JOURNAL*
  Nguyen, P. K., Schnittger, I., Heidenreich, P. A.
  2011; 161 (3): 530-537

- **Sex differences in the diagnostic evaluation of coronary artery disease** *JOURNAL OF NUCLEAR CARDIOLOGY*
  Nguyen, P. K., Nag, D., Wu, J. C.
  2011; 18 (1): 144-152

- **Radiation exposure from imaging tests: is there an increased cancer risk?** *Expert review of cardiovascular therapy*
  Nguyen, P. K., Wu, J. C.
  2011; 9 (2): 177-183

- **Right coronary wall cmr in the older asymptomatic advance cohort: positive remodeling and associations with type 2 diabetes and coronary calcium** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*

Terashima, M., Nguyen, P. K., Rubin, G. D., Meyer, C. H., Shimakawa, A., Nishimura, D. G., Ehara, S., Iribarren, C., Courtney, B. K., Go, A. S., Hlatky, M. A., Fortmann, S. P., McConnell, et al
2010; 12

- **Methods to assess stem cell lineage, fate and function** *ADVANCED DRUG DELIVERY REVIEWS*
  Nguyen, P. K., Nag, D., Wu, J. C.
  2010; 62 (12): 1175-1186

- **Nasal continuous positive airway pressure improves myocardial perfusion reserve and endothelial-dependent vasodilation in patients with obstructive sleep apnea** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*
  Nguyen, P. K., Katikireddy, C. K., McConnell, M. V., Kushida, C., Yang, P. C.
  2010; 12

- **Quantitative Tissue Characterization of Infarct Core and Border Zone in Patients With Ischemic Cardiomyopathy by Magnetic Resonance Is Associated With Future Cardiovascular Events** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Heidary, S., Patel, H., Chung, J., Yokota, H., Gupta, S. N., Bennett, M. V., Katikireddy, C., Nguyen, P., Pauly, J. M., Terashima, M., McConnell, M. V., Yang, P. C.
  2010; 55 (24): 2762-2768

- **Prevalence and Prognostic Significance of Exercise-Induced Right Bundle Branch Block** *AMERICAN JOURNAL OF CARDIOLOGY*
  Stein, R., Nguyen, P., Abella, J., Olson, H., Myers, J., Froelicher, V.
  2010; 105 (5): 677-680

- **Noninvasive assessment of coronary vasodilation using cardiovascular magnetic resonance in patients at high risk for coronary artery disease** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*
  Nguyen, P. K., Meyer, C., Engvall, J., Yang, P., McConnell, M. V.
  2008; 10

- **Quantitative characterization of myocardial infarction by cardiovascular magnetic resonance predicts future cardiovascular events in patients with ischemic cardiomyopathy** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*
  Yokota, H., Heidary, S., Katikireddy, C. K., Nguyen, P., Pauly, J. M., McConnell, M. V., Yang, P. C.
  2008; 10

- **Successful lysis of an aortic prosthetic valve thrombosis with a dosing regimen for peripheral artery and bypass graft occlusions** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Nguyen, P. K., Wasserman, S. M., Fann, J. I., Giacomini, J.
  2008; 135 (3): 691-693

- **Impaired Coronary Vasodilation by Magnetic Resonance Angiography Is Associated With Advanced Coronary Artery Calcification** *JACC-CARDIOVASCULAR IMAGING*
  Terashima, M., Nguyen, P. K., Rubin, G. D., Iribarren, C., Courtney, B. K., Go, A. S., Fortmann, S. P., McConnell, M. V.
  2008; 1 (2): 167-173

- **Peri-infarct ischemia determined by cardiovascular magnetic resonance evaluation of myocardial viability and stress perfusion predicts future cardiovascular events in patients with severe ischemic cardiomyopathy** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*
  Tsukiji, M., Nguyen, P., Narayan, G., Hellinger, J., Chan, F., Herfkens, R., Pauly, J. M., McConnell, M. V., Yang, P. C.
  2006; 8 (6): 773-779

- **Real-time color-flow CMR in adults with congenital heart disease** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*
  de la Pena, E., Nguyen, P. K., Nayak, K. S., Yang, P. C., Rosenthal, D. N., Hu, B. S., Pauly, J. M., McConnell, M. V.
  2006; 8 (6): 809-815

- **Gastrointestinal bleeding** *CLINICAL PEDIATRICS*
  Nguyen, P. C., Garcia-Careaga, M., Bass, D.
  2005; 44 (7): 641-643

- **Dynamic real-time architecture in magnetic resonance coronary angiography-a prospective clinical trial** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*
  Yang, P. C., Santos, J. M., Nguyen, P. K., Scott, G. C., Engvall, J., McConnell, M. V., Wright, G. A., Nishimura, D. G., Pauly, J. M., Hu, B. S.
  2004; 6 (4): 885-894