Stanford

# Phillip C. Yang, MD

Professor of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

Curriculum Vitae available Online


### CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Medicine Clinic**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Sonia Amador - Administrative Associate

  **Email** amador52@stanford.edu

  **Tel** (650) 721-8403


## Bio

### BIO

Phillip C. Yang is a Professor of Medicine (Cardiovascular Medicine) at the Stanford University School of Medicine. He directs the Cardiovascular Stem Cell Laboratory (Yang Lab) and Stanford Cardiothoracic MRI Program. Dr. Yang received degrees from Stanford University and Yale University School of Medicine, and completed post-graduate training at UCLA and Stanford University Medical Centers. Dr. Yang is a physician-scientist whose research interest focuses on clinical translation of the fundamental molecular and cellular processes of myocardial restoration. His research employs novel in vivo multi-modality molecular and cellular imaging technology to translate the basic innovation in pluriopotent stem cell biology. Novel intracellular molecules and organelles are discovered and studied for functional improvement. Dr. Yang is currently a PI on the NIH/NHLBI funded CCTRN UM1 grant, which is designed to conduct multi-center clinical trial on novel biological therapy. In addition, he is a PI on 3 NIH research grants, 1 CIRM grant, and leads 6 stem cell clinical trials. Currently, he is pioneering the Cardiovascular Regeneration Program at Stanford. Dr. Yang has been the recipient of several prestigious awards including NIH Career Development Award, NIH Career Enhancement Award, and NIH Patient Oriented Research. To find out more, please visit the Yang Lab website: http://med.stanford.edu/cvmedicine/research/faculty-labs-link/yanglab.html

### CLINICAL FOCUS

- Cardiology (Heart)
- Cardiovascular Disease
- Cardiovascular Imaging
- Cardiovascular Biologics

### ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance

## ADMINISTRATIVE APPOINTMENTS

- Cardiology Fellow, Stanford Division of Cardiovascular Medicine, (1994-1999)
- Clinical Instructor & Staff Physician, Stanford Division of Cardiovascular Medicine, (1999-2005)
- Assistant Professor, Stanford Division of Cardiovascular Medicine, (2005-2012)
- Director, Cardiovascular Stem Cell Laboratory, Stanford Division of Cardiovascular Medicine, (2005- present)
- Director, Cardiothoracic MRI Program, Stanford Division of Cardiovascular Medicine, (2012- present)
- Associate Professor, Stanford Division of Cardiovascular Medicine, (2012-2020)
- Professor, Stanford Division of Cardiovascular Medicine, (2020- present)

## HONORS AND AWARDS

- Translational and Basic Science YIA, Finalist, Senior Author, American College of Cardiology (2020)
- Bissett Lecture, University of Arkansas School of Medicine (2018)
- Melvin Marcus YIA, Finalist, Senior Author, American Heart Association (2018)
- K24 Mid-Career Award in Patient-Oriented Research, National Institute of Health (2016-2021)
- Co-Chair and Organizer, Frontiers in Cardiovascular Medicine, Stanford-Gachon 2nd Annual Session,, Gachon University (2016-2019)
- Activation of patient-specific endogenous myocardial repair through the exosomes, California Institute for Regenerative Medicine (2016-2017)
- Tracking cardiac engraftment and viability of cell biologics by MRI, National Institutes of Health (2016-2017)
- Visiting Professor in Molecular Medicine, Jinan University, Guangzhou, China (2015)
- Young Investigator Award Finalist, senior author, American College of Cardiology (2015)
- Co-Chair, Frontiers in Cardiovascular Medicine, Gachon University, Incheon, Korea (2014)
- Cell Characterization and Imaging for Molecular Therapies in Ischemic Diseases, National Institutes of Health (2012-2019)
- Cardiovascular Molecular Biologic Therapy Research Network Principal Investigator, National Institutes of Health (2012)
- Melvin Judkins Young Investigator Award, 1st Place, senior author, American Heart Association (2012)
- Melvin Judkins Young Investigator Award, 1st Place, senior author, American Heart Association (2011)
- Melvin Judkins Young Investigator Award, 1st Place, senior author, American Heart Association (2010)
- Melvin Judkins Young Investigator Award, 1st Place, senior author, American Heart Association (2009)
- Judge, Young Investigator Awards Competition: Physiology, Pharmacology, and Pathology, American College of Cardiology (2008)
- K18 Career Enhancement Award, National Institutes of Health (2007)
- Young Investigator Award, Finalist, American College of Cardiology (2007)
- Vivien Thomas Young Investigator Award, American Heart Association (2005)
- Young Investigator Award, Finalist, American College of Cardiology (Senior Author) (2005)
- Teaching Award, Stanford University School of Medicine (2004)
- Young Investigator Award, Finalist, American College of Cardiology (Senior Author) (2004)
- Glaxo Smith Kline Scholar, American Federation of Medical Research (2003)
- Career Development Award, National Institute of Health (2000)
- K23 Career Development Award, National Institute of Health (2000)
- Edwin L Alderman Award for Excellence in Research, Stanford Cardiovascular Medicine (1999)
- Young Investigator Award, American College of Cardiology (1998)
- Physiology & Pharmacology Research Award, Stanford Cardiovascular Medicine (1997)

- Soloman's Scholarship, UCLA Dept of Medicine (1993)
- Cum Laude, Yale University School of Medicine (1989)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Reviewer, National Institute of Health Myocardial Ischemia and Metabolism (MIM) Study Section (2016 - present)
- Co-Chair, American Heart Association Stem Cell Working Group (2015 - present)
- Reviewer, Veterans Affairs, Cardiovascular Studies – A (CARA) panel, Merit Review meeting (2015 - 2016)
- Reviewer, National Institute of Health Clinical and Integrative Cardiovascular Sciences (CICS) Study Section, (2015 - 2016)
- Reviewer, National Institute of Health Cardiovascular and Respiratory Sciences IRG Special Emphasis (2015 - 2016)
- Reviewer, Department of Defense, Cardiovascular Health of the Defense Health Program, Investigator-Initiated Research Award (2015 - 2015)
- Reviewer, Veterans Affairs Office of Research and Development proposal (2015 - 2015)
- Member, American College of Cardiology, Annual Scientific Session Program Committee (2010 - 2012)
- Reviewer, National Institute Health, ARRA Challenge Grant Study Section (2009 - 2009)
- Reviewer, American Heart Association, National Center Grant Study Section – Radiology and Surgery (2004 - 2009)
- Reviewer, American Heart Association, Western Regional Grant Study Section – Cardiovascular Molecular and Cellular Imaging (2004 - 2009)

## PROFESSIONAL EDUCATION

- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2024)
- Board Certification: Adult Echocardiography, National Board of Echocardiography (2008)
- Fellowship: Stanford University Cardiovascular Medicine Fellowship (1998) CA
- Residency: UCLA Medical Center Internal Medicine (1993) CA
- Medical Education: Yale School Of Medicine (1989) CT
- Resident, UCLA Department of Medicine , Internal Medicine (1993)
- MD, Yale University , MD, Cum Laude (1989)
- MA, Stanford University , East Asian Studies (1984)
- BAS, Stanford University , Biology and East Asian Studies (1984)

## COMMUNITY AND INTERNATIONAL WORK

- Editor, Circulation Research
- Editor, Journal of Cardiovascular Magnetic Resonance
- Member, American Heart Association, National Grant Study Committee
- Member, American Heart Association, Western Regional Grant Study Committee
- Board Member, National Center for Space Biological Technologies (NASA)
- Language Background

## PATENTS

- Yang PC, Dash R. "United States Patent 14/992,847 MRI Evaluation of Heterogeneous Tissue.", Leland Stanford Junior University, Jun 1, 2016
- Liang DH, Yang PC, Koolwal A, Park B.. "United States Patent US2006030777-A-1 Ultrasound image generation method in medical application, involves calculating t-statistic value for each image point and producing enhance image without ultrasound echo amplitudes.", Leland Stanford Junior University, Feb 2, 2006
- Liang DH, Yang PC, Koolwal A, Park B.. "United States Patent S04-114/PROV, US2006030777-A1 T-statistic method for suppressing blood artifact in ultrasound imaging", Leland Stanford Junior University, Aug 1, 2004
- Yang PC. "United States Patent PO3 4625 Protective Cover for Hypodermic Needle.", Sep 1, 1989

- Yang PC. "United States Patent PO3 5125 Protective Cover and Connector for Hypodermic Needle.", Sep 1, 1989

### LINKS

- Yang Lab: The Cardiovascular Stem Cell Lab: http://med.stanford.edu/cvmedicine/research/faculty-labs-link/yanglab.html
- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

## Research & Scholarship

### CURRENT RESEARCH AND SCHOLARLY INTERESTS

The emergence of cardiovascular pluripotent stem cells created a paradigm shift in how we approach cardiovascular diseases. This innovation has required a careful evaluation of the interaction between the recipient tissue and small molecules at a fundamental cellular level. Dr. Yang's laboratory is discovering the cellular and molecular biologics of pluripotent stem cells, employing advanced imaging technology. His research effort characterizes the injured myocardium as a biological niche for small molecule and cellular organelle therapy to discover their novel action of mechanism to cure heart failure.

As a physician-scientist, Dr. Yang's research focuses on the translational effort of novel small molecules and cellular organelles from pluripotent stem cells. His laboratory combines restorative molecular biology with novel imaging technology to advance clinical implementation of extracellular vesicles and their molecular content. High sensitivity and exquisite resolution enable robust evaluation of regional cardiovascular restoration and the underlying mechanism of action. Precision medicine, employing endogenous biologics, will create a paradigm shift. His research will provide a requisite validation of the role of the small molecules and personalized therapy to heal the failing heart. Through this focused programmatic effort, he is pioneering the Cardiovascular Regeneration Program at Stanford.

Dr. Yang is a PI of NIH funded Cardiovascular Cell Therapy Research Network designed to conduct multi-center clinical trial of novel biologics.
In addition, he leads 3 NIH and 1 CIRM research grants and 4 clinical trials. He has received several prestigious awards, including NIH Career Development Award, NIH Career Enhancement Award, NIH Midcareer Award, and multiple awards from both AHA and ACC. He is a frequent guest speaker and session chair at national and international meetings.

### CLINICAL TRIALS

- Administration of Allogeneic-MSC in Patients With Non-Ischemic Dilated Cardiomyopathy, Recruiting
- Combination of Mesenchymal and C-kit+ Cardiac Stem Cells as Regenerative Therapy for Heart Failure, Not Recruiting
- Efficacy and Safety of Allogeneic Mesenchymal Precursor Cells (Rexlemestrocel-L) for the Treatment of Heart Failure., Not Recruiting
- Efficacy of EVP 1001-1 (SeeMore) in the Assessment of Myocardial Viability in Patients With Cardiovascular Disease, Not Recruiting
- Patients With Intermittent Claudication Injected With ALDH Bright Cells, Not Recruiting
- Stem Cell Injection in Cancer Survivors, Not Recruiting

## Teaching

### STANFORD ADVISEES

**Postdoctoral Faculty Sponsor**

Connor O'Brien

**Postdoctoral Research Mentor**

Connor O'Brien

# Publications

## PUBLICATIONS

- **Topical vascular organoid therapy promotes microvascular regeneration and functional recovery in porcine ischemic cardiomyopathy.** *Stem cell reports*
  Farag, J. A., Yajima, S., Kawai, Y., Kawago, K., Pfrender, E., Syed, U., Lyons, J. K., Ueyama, T., Takashima, H., Matsuura, Y., Ikeda, G., Liu, Y., Zhu, et al
  2026: 102999

- **MEV-Based Precision Therapy for Optic Nerve Protection in Glaucoma**
  Li, M., Ikeda, G., Yan, X., Liu, D., Yang, P., Hu, Y.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2026

- **Plasma Extracellular Vesicle Surface Marker Profiling Reveals Immune Cell-Associated Mitochondrial Membrane Potential Alterations in Long COVID and Myalgic Encephalomyelitis/Chronic Fatigue Syndrome** *OPEN FORUM INFECTIOUS DISEASES*
  Ikeda, G., Koike-Ieki, M., Inoue, H., Dadhania, A., El Kamari, V., Jagannathan, P., Geng, L. N., Miglis, M. G., Shafer, R. W., Yang, P. C., Bonilla, H.
  2026; 13 (5)

- **Plasma Extracellular Vesicle Surface Marker Profiling Reveals Immune Cell-Associated Mitochondrial Membrane Potential Alterations in Long COVID and Myalgic Encephalomyelitis/Chronic Fatigue Syndrome.** *Open forum infectious diseases*
  Ikeda, G., Koike-Ieki, M., Inoue, H., Dadhania, A. V., El Kamari, V., Jagannathan, P., Geng, L. N., Miglis, M. G., Shafer, R. W., Yang, P. C., Bonilla, H. F.
  2026; 13 (5): ofag209

- **Mitochondrial Transfer: From Bench to Bedside.** *Circulation research*
  Ikeda, G., Li, J., Wang, A., Paleru, A. M., Yang, P. C.
  2026; 138 (8): e326984

- **Distinct Mechanisms of Mitochondria-rich extracellular vesicle Therapy in Acute vs. Chronic Ischemic Heart Failure: A Single-Cell Transcriptomic Study**
  Ikeda, G., Tzng, E., Koike-Ieki, M., Takashima, H., Li, J., Lyons, J., O'Brien, C., Yang, P.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Effect of combined guideline-directed medical therapy and mitochondria-rich extracellular vesicles in a mouse infarct model**
  Li, J., Ikeda, G., Tzng, E., Paleru, A., Inoue, H., Matsuura, Y., Koike-Ieki, M., Yang, P.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Can Low Cortisol Predict Long COVID? A Controversial Issue.** *Biomedicines*
  Quach, T. C., Wilson, A., Sum-Ping, O., Lomba, S., Geng, L. N., Shafer, R., Miglis, M. G., Yang, P. C., Grossman, L., Ricciardiello, G., Bonilla, H.
  2025; 13 (11)

- **Molecular Mechanisms of Exosomes From Human iPSC-Cardiomyocytes and Mesenchymal Stem Cells in Restoring the Injured Myocardium.** *Journal of the American Heart Association*
  Tzng, E., Bayardo, N., Ikeda, G., Vadgama, N., Takashima, H., Lyons, J., Ieki, H., Bennett, M., Snyder, M., Wu, J. C., O'Brien, C. G., Yang, P. C.
  2025: e037005

- **Linking gut, heart and metabolic health through cholesterol conversion by Akkermansia muciniphila** *CHEMICAL ENGINEERING JOURNAL*
  Kazemian, N., Karimianghadim, R., Golzan, S., Nitin, Irungu, J. D. W., Coombs, G. B., Low, J., Little, J. P., Zandberg, W. F., Halperin, F., Bergstrom, K., Guha, A., Hong, C. C., et al
  2025; 522

- **POST-COVID-19 VACCINATION AND LONG COVID: INSIGHTS FROM PATIENT REPORTED DATA**
  Quach, T. C., Miglis, M., Tian, L., Bonilla, H., Yang, P. C., Paleru, A., Xin, V., Tiwari, A., Shafer, R. W., Geng, L. N.
  SPRINGER.2025: S589

- **Decoding long COVID-associated cardiovascular dysfunction: Mechanisms, models, and new approach methodologies.** *Journal of molecular and cellular cardiology*
  Thomas, D., Yang, P. C., Wu, J. C., Sayed, N.
  2025

- **Rapid manufacturing of angiogenic cellular collagen patches for ischemic cardiomyopathy.** *Stem cells translational medicine*
  Pfrender, E., Kim, S., Farag, J. A., Yajima, S., Kawai, Y., Kawago, K., Syed, U., Ikeda, G., Ueyama, T., Takashima, H., Dalal, A., Zhu, Y., Ichimura, et al
  2025; 14 (9)

- **Digital Biometric Measures in Long COVID: A Secondary Analysis of the STOP-PASC Randomized Clinical Trial.** *JAMA network open*
  Gunturkun, F., Hedlin, H., Botzheim, B., Deng, Y., Bonilla, H., Jagannathan, P., Quach, T. C., Kim, S., Lin, M., O'Riordan, G., Tzeng, H., Adamowicz, L., Demanuele, et al
  2025; 8 (8): e2526901

- **Correction: Chronic autonomic symptom burden in long#COVID: a follow#up cohort study.** *Clinical autonomic research : official journal of the Clinical Autonomic Research Society*
  Eastin, E. F., Machnik, J. V., Stiles, L. E., Larsen, N. W., Seliger, J., Geng, L. N., Bonilla, H., Yang, P. C., Miglis, M. G.
  2025

- **Evaluating Long-Term Autonomic Dysfunction and Functional Impacts of Long COVID: A Follow-Up Study (P1-7.004).** *Neurology*
  Eastin, E., Machnik, J., Larsen, N., Stiles, L., Seliger, J., Geng, L., Bonilla, H., Yang, P., Miglis, M.
  2025; 104 (7_Supplement_1): 4290

- **AI-Driven Prediction of Cardio-Oncology Biomarkers Through Protein Corona Analysis.** *Chemical engineering journal (Lausanne, Switzerland : 1996)*
  Guha, A., Sadeghi, S. A., Kunhiraman, H. H., Fang, F., Wang, Q., Rafieioskouei, A., Grumelot, S., Gharibi, H., Saei, A. A., Sayadi, M., Weintraub, N. L., Horibata, S., Yang, et al
  2025; 509

- **AI-driven prediction of cardio-oncology biomarkers through protein corona analysis** *CHEMICAL ENGINEERING JOURNAL*
  Guha, A., Sadeghi, S., Kunhiraman, H., Fang, F., Wang, Q., Rafieioskouei, A., Grumelot, S., Gharibi, H., Saei, A., Sayadi, M., Weintraub, N. L., Horibata, S., Yang, et al
  2025; 509

- **A Novel Transaortic Pulsatile Pump to Unload the Left Ventricle.** *JACC. Basic to translational science*
  Kim, J., Rambarat, P., Levin, A., Yang, P. C., Teuteberg, J., Seto, A., Kern, M., Greenberg, B., Patel, M., Fudim, M.
  2025; 10 (3): 270-272

- **Chronic autonomic symptom burden in long-COVID: a follow-up cohort study.** *Clinical autonomic research : official journal of the Clinical Autonomic Research Society*
  Eastin, E. F., Machnik, J. V., Stiles, L. E., Larsen, N. W., Seliger, J., Geng, L. N., Bonilla, H., Yang, P. C., Miglis, M. G.
  2025

- **Can Low Cortisol Predict Long COVID? A Controversial Issue** *Biomedicines*
  Quach, T. C., Wilson, A., Sum-Ping, O., Lomba, S., Geng, L. N., Shafer, R., Miglis, M. G., Yang, P. C., Grossman, L., Ricciardiello, G., Bonilla, H.
  2025; 13 (11): 2636

- **Post-COVID-19 Vaccination and Long COVID: Insights from Patient-Reported Data.** *Vaccines*
  Quach, T. C., Miglis, M. G., Tian, L., Bonilla, H., Yang, P. C., Grossman, L., Paleru, A., Xin, V., Tiwari, A., Shafer, R. W., Geng, L. N.
  2024; 12 (12)

- **Correction: Cloud-Based Machine Learning Platform to Predict Clinical Outcomes at Home for Patients With Cardiovascular Conditions Discharged From Hospital: Clinical Trial.** *JMIR cardio*
  Yang, P. C., Jha, A., Xu, W., Song, Z., Jamp, P., Teuteberg, J. J.
  2024; 8: e68825

- **Post-COVID-19 Vaccination and Long COVID: Insights from Patient-Reported Data** *VACCINES*
  Quach, T. C., Miglis, M. G., Tian, L., Bonilla, H., Yang, P. C., Grossman, L., Paleru, A., Xin, V., Tiwari, A., Shafer, R. W., Geng, L. N.
  2024; 12 (12)

- **A novel label-free biosensor for myocardial ischemia biomarker detection via CRISPR/12a.** *Biosensors & bioelectronics*
  Liu, C., Liu, Q., Chen, X., Guo, M., Chen, Z., Zhao, J., Chen, H., Guo, S., Cen, H., Yao, G., Chen, L., Wang, Y., Yang, et al
  2024; 270: 116954

- **Wideband radiofrequency pulse sequence for evaluation of myocardial scar in patients with cardiac implantable devices** *FRONTIERS IN RADIOLOGY*
  Shah, N. D., Krishnam, M., Venkatesh, B., Khan, F., Smith, M., Jones, D. R., Koon, P., Mao, X., Janich, M. A., Brau, A. C. S., Salerno, M., Dash, R., Chan, et al
  2024; 4: 1327406

- **Nirmatrelvir-Ritonavir and Symptoms in Adults With Postacute Sequelae of SARS-CoV-2 Infection: The STOP-PASC Randomized Clinical Trial.** *JAMA internal medicine*
  Geng, L. N., Bonilla, H., Hedlin, H., Jacobson, K. B., Tian, L., Jagannathan, P., Yang, P. C., Subramanian, A. K., Liang, J. W., Shen, S., Deng, Y., Shaw, B. J., Botzheim, et al
  2024

- **CARDIODIAGNOSTIC FINDINGS IN PATIENTS WITH CHEST PAIN IN A LONGITUDINAL POST-ACUTE COVID SYNDROME CLINIC**
  Li, J., Quach, T., Tiwari, A., Cui, J., Linda, G., Saigal, K., Yang, P. C.
  ELSEVIER SCIENCE INC.2024: 660

- **CARDIODIAGNOSTIC FINDINGS IN PATIENTS WITH CHEST PAIN IN A LONGITUDINAL POST-ACUTE COVID SYNDROME CLINIC**
  Li, J., Quach, T., Tiwari, A., Cui, J., Linda, G., Saigal, K., Yang, P. C.
  ELSEVIER SCIENCE INC.2024: 660

- **Cloud-Based Machine Learning Platform to Predict Clinical Outcomes at Home for Patients With Cardiovascular Conditions Discharged From Hospital: Clinical Trial.** *JMIR cardio*
  Yang, P. C., Jha, A., Xu, W., Song, Z., Jamp, P., Teuteberg, J. J.
  2024; 8: e45130

- **New Alcohol Sensitivity in Patients With Post-acute Sequelae of SARS-CoV-2 (PASC): A Case Series.** *Cureus*
  Eastin, E. F., Tiwari, A., Quach, T. C., Bonilla, H. F., Miglis, M. G., Yang, P. C., Geng, L. N.
  2023; 15 (12): e51286

- **Current challenges surrounding exosome treatments.** *Extracellular vesicle*
  Tzng, E., Bayardo, N., Yang, P. C.
  2023; 2: 100023

- **Sex Influences the Safety and Therapeutic Efficacy of Cardiac Nanomedicine Technologies.** *Small (Weinheim an der Bergstrasse, Germany)*
  Lin, Z., Jiwani, Z., Serpooshan, V., Aghaverdi, H., Yang, P. C., Aguirre, A., Wu, J. C., Mahmoudi, M.
  2023: e2305940

- **Anti-breast cancer-induced cardiomyopathy: Mechanisms and future directions.** *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*
  Liu, C., Chen, H., Guo, S., Liu, Q., Chen, Z., Huang, H., Zhao, Q., Li, L., Cen, H., Jiang, Z., Luo, Q., Chen, X., Zhao, et al
  2023; 166: 115373

- **Myalgic Encephalomyelitis/Chronic Fatigue Syndrome is common in post-acute sequelae of SARS-CoV-2 infection (PASC): Results from a post-COVID-19 multidisciplinary clinic.** *Frontiers in neurology*
  Bonilla, H., Quach, T. C., Tiwari, A., Bonilla, A. E., Miglis, M., Yang, P. C., Eggert, L. E., Sharifi, H., Horomanski, A., Subramanian, A., Smirnoff, L., Simpson, N., Halawi, et al
  2023; 14: 1090747

- **Microvascular Obstruction Identifies a Subgroup of Patients Who Benefit from Stem Cell Therapy Following ST-Elevation Myocardial Infarction.** *American heart journal*
  Davidson, S. J., Roncalli, J., Surder, D., Corti, R., Chugh, A. R., Yang, P. C., Henry, T. D., Stanberry, L., Lemarchand, P., Beregi, J. P., Traverse, J. H.
  2023

- **Extracellular vesicle-derived circCEBPZOS attenuates postmyocardial infarction remodeling by promoting angiogenesis via the miR-1178-3p/PDPK1 axis.** *Communications biology*
  Yu, L., Liang, Y., Zhang, M., Yang, P. C., Hinek, A., Mao, S.
  2023; 6 (1): 133

- **Current challenges and future directions for engineering extracellular vesicles for heart, lung, blood and sleep diseases.** *Journal of extracellular vesicles*

Li, G., Chen, T., Dahlman, J., Eniola-Adefeso, L., Ghiran, I. C., Kurre, P., Lam, W. A., Lang, J. K., Marbán, E., Martín, P., Momma, S., Moos, M., Nelson, et al
2023; 12 (2): e12305

- **High-resolution, respiratory-resolved coronary MRA using a Phyllotaxis-reordered variable-density 3D cones trajectory.** *Magnetic resonance imaging*
  Koundinyan, S. P., Baron, C. A., Malavé, M. O., Ong, F., Addy, N. O., Cheng, J. Y., Yang, P. C., Hu, B. S., Nishimura, D. G.
  2023
- **Angiogenic stem cell delivery platform to augment post-infarction neovasculature and reverse ventricular remodeling.** *Scientific reports*
  Shin, H. S., Thakore, A., Tada, Y., Pedroza, A. J., Ikeda, G., Chen, I. Y., Chan, D., Jaatinen, K. J., Yajima, S., Pfrender, E. M., Kawamura, M., Yang, P. C., Wu, et al
  2022; 12 (1): 17605
- **Spinning-enabled wireless amphibious origami millirobot.** *Nature communications*
  Ze, Q., Wu, S., Dai, J., Leanza, S., Ikeda, G., Yang, P. C., Iaccarino, G., Zhao, R. R.
  2022; 13 (1): 3118
- **Regenerating Endothelium and Restoring Microvascular Endothelial Function.** *JACC. Cardiovascular imaging*
  Hare, J. M., Yang, P.
  2022; 15 (5): 825-827
- **Stem Cell and Exosome Therapy in Pulmonary Hypertension.** *Korean circulation journal*
  Oh, S., Jung, J., Ahn, K., Jang, A. Y., Byun, K., Yang, P. C., Chung, W.
  2022; 52 (2): 110-122
- **Recommendations for Nomenclature and Definition Of Cell Products Intended for Human Cardiovascular Use.** *Cardiovascular research*
  Taylor, D. A., Chacon-Alberty, L., Sampaio, L. C., Del Hierro, M. G., Perin, E. C., Mesquita, F. C., Henry, T. D., Traverse, J. H., Pepine, C. J., Hare, J. M., Murphy, M. P., Yang, P. C., March, et al
  2021
- **Dual Contrast Manganese-Enhanced MRI and Gadolinium Delayed-Enhanced MRI Detect Heterogenous Myocardial Viability in Ischemic Cardiomyopathy** *JACC-CARDIOVASCULAR IMAGING*
  Tada, Y., Santoso, M. R., Heidary, S., Sano, H., Tachibana, A., Matsuura, Y., Harnish, P., Yang, P. C.
  2021; 14 (7): 1474-1476
- **EXOSOMES FROM HUMAN INDUCED PLURIPOTENT STEM CELL-DERIVED CARDIOMYOCYTES (ICMS) AND MESENCHYMAL STEM CELLS (MSCS) RECOVER HEART FUNCTION IN PORCINE ACUTE MYOCARDIAL INFARCTION (MI) MODEL**
  Bayardo, N., O'Brien, C., Vaskova, E., Lyons, J., Tada, Y., Yang, P.
  ELSEVIER SCIENCE INC.2021: 19
- **MIR-20B AND-92A ENHANCES CARDIOMYOCYTE CELL CYCLE RE-ENTRY AND PROLIFERATION IN THE ISCHEMIC MYOCARDIUM**
  Jung, J., Ikeda, G., Tada, Y., Yang, P.
  ELSEVIER SCIENCE INC.2021: 175
- **A Phase II Study of Autologous Mesenchymal Stromal Cells and c-kit Positive Cardiac Cells, Alone or in Combination, in Patients with Ischemic Heart Failure: The CCTRN CONCERT-HF Trial.** *European journal of heart failure*
  Bolli, R., Mitrani, R. D., Hare, J. M., Pepine, C. J., Perin, E. C., Willerson, J. T., Traverse, J. H., Henry, T. D., Yang, P. C., Murphy, M. P., March, K. L., Schulman, I. H., Ikram, et al
  2021
- **Comparative analysis on the anti-inflammatory/immune effect of mesenchymal stem cell therapy for the treatment of pulmonary arterial hypertension.** *Scientific reports*
  Oh, S. n., Jang, A. Y., Chae, S. n., Choi, S. n., Moon, J. n., Kim, M. n., Spiekerkoetter, E. n., Zamanian, R. T., Yang, P. C., Hwang, D. n., Byun, K. n., Chung, W. J.
  2021; 11 (1): 2012
- **Precise Measurement of Physical Activities and High-Impact Motion: Feasibility of Smart Activity Sensor System** *IEEE SENSORS JOURNAL*
  Liu, H., Chuang, Y., Liu, C., Yang, P. C., Fuh, C.
  2021; 21 (1): 568–80

- **Therapeutic Applications of Extracellular Vesicles for Myocardial Repair.** *Frontiers in cardiovascular medicine*
  Liu, C., Bayado, N., He, D., Li, J., Chen, H., Li, L., Li, J., Long, X., Du, T., Tang, J., Dang, Y., Fan, Z., Wang, et al
  1800; 8: 758050

- **Peripheral Blood Biomarkers Associated With Improved Functional Outcome in Patients With Chronic Left Ventricular Dysfunction: A Biorepository Evaluation of the FOCUS-CCTRN Trial.** *Frontiers in cardiovascular medicine*
  Chacon Alberty, L., Perin, E. C., Willerson, J. T., Gahremanpour, A., Bolli, R., Yang, P. C., Traverse, J. H., Lai, D., Pepine, C. J., Taylor, D. A.
  2021; 8: 698088

- **miR-106a-363 cluster in extracellular vesicles promotes endogenous myocardial repair via Notch3 pathway in ischemic heart injury.** *Basic research in cardiology*
  Jung, J. H., Ikeda, G. n., Tada, Y. n., von Bornstädt, D. n., Santoso, M. R., Wahlquist, C. n., Rhee, S. n., Jeon, Y. J., Yu, A. C., O'brien, C. G., Red-Horse, K. n., Appel, E. A., Mercola, et al
  2021; 116 (1): 19

- **Mitochondria-Rich Extracellular Vesicles From Autologous Stem Cell-Derived Cardiomyocytes Restore Energetics of Ischemic Myocardium.** *Journal of the American College of Cardiology*
  Ikeda, G. n., Santoso, M. R., Tada, Y. n., Li, A. M., Vaskova, E. n., Jung, J. H., O'Brien, C. n., Egan, E. n., Ye, J. n., Yang, P. C.
  2021; 77 (8): 1073–88

- **Precise Measurement of Physical Activities and High-Impact Motion: Feasibility of Smart Activity Sensor System** *IEEE SENSORS JOURNAL*
  Liu, H., Chuang, Y., Liu, C., Yang, P. C., Fuh, C.
  2021; 21 (1): 568–80

- **Allogeneic Mesenchymal Cell Therapy in Anthracycline-Induced Cardiomyopathy Heart Failure Patients: The CCTRN SENECA Trial.** *JACC. CardioOncology*
  Bolli, R., Perin, E. C., Willerson, J. T., Yang, P. C., Traverse, J. H., Henry, T. D., Pepine, C. J., Mitrani, R. D., Hare, J. M., Murphy, M. P., March, K. L., Ikram, S., Lee, et al
  2020; 2 (4): 581–95

- **A Phase I Study of Allogeneic Mesenchymal Stem Cell Therapy in Patients with Heart Failure Secondary to Anthracycline-induced Cardiomyopathy: The Cctrn Stem Cell Injection in Cancer Survivors (Seneca) Trial**
  Bolli, R., Perin, E. C., Willerson, J. T., Yang, P. C., Traverse, J. H., Henry, T. D., Pepine, C. J., Mitrani, R. D., Hare, J. M., Murphy, M. P., Lima, J. A., Gee, A. P., Taylor, et al
  CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2020: S97

- **SULFATED DEXTRAN-COATED IRON OXIDE NANOPARTICLES DETECT INFLAMMATION IN THE PERI-INFARCT REGION POST-ACUTE MYOCARDIAL INFARCTION**
  Tada, Y., Ikeda, G., Louie, A., Yang, P.
  ELSEVIER SCIENCE INC.2020: 1792

- **MITOCHONDRIA CONTAINING EXTRACELLULAR VESICLES FROM AUTOLOGOUS INDUCED PLURIPOTENT STEM CELL DERIVED CARDIOMYOCYTES RESTORE BIOENERGETICS IN ISCHEMIC MYOCARDIUM**
  Ikeda, G., Santoso, M., Tada, Y., Vaskova, E., O'Brien, C. G., Jung, J., Yang, P. C.
  ELSEVIER SCIENCE INC.2020: 3659

- **Exosomes From Induced Pluripotent Stem Cell-Derived Cardiomyocytes Promote Autophagy for Myocardial Repair.** *Journal of the American Heart Association*
  Santoso, M. R., Ikeda, G., Tada, Y., Jung, J., Vaskova, E., Sierra, R. G., Gati, C., Goldstone, A. B., von Bornstaedt, D., Shukla, P., Wu, J. C., Wakatsuki, S., Woo, et al
  2020; 9 (6): e014345

- **Manganese-enhanced T1 mapping to quantify myocardial viability: validation with 18F-fluorodeoxyglucose positron emission tomography.** *Scientific reports*
  Spath, N. n., Tavares, A. n., Gray, G. A., Baker, A. H., Lennen, R. J., Alcaide-Corral, C. J., Dweck, M. R., Newby, D. E., Yang, P. C., Jansen, M. A., Semple, S. I.
  2020; 10 (1): 2018

- **Sacubitril/Valsartan Improves Cardiac Function and Decreases Myocardial Fibrosis Via Downregulation of Exosomal miR-181a in a Rodent Chronic Myocardial Infarction Model.** *Journal of the American Heart Association*
  Vaskova, E. n., Ikeda, G. n., Tada, Y. n., Wahlquist, C. n., Mercola, M. n., Yang, P. C.

2020: e015640

- **Ferumoxytol-enhanced cardiovascular magnetic resonance detection of early stage acute myocarditis.** *Journal of cardiovascular magnetic resonance : official journal of the Society for Cardiovascular Magnetic Resonance*
  Tada, Y., Tachibana, A., Heidary, S., Yang, P. C., McConnell, M. V., Dash, R.
  2019; 21 (1): 77

- **Iron Oxide Labeling and Tracking of Extracellular Vesicles** *MAGNETOCHEMISTRY*
  Tada, Y., Yang, P. C.
  2019; 5 (4)

- **Meta-analysis of short- and long-term efficacy of mononuclear cell transplantation in patients with myocardial infarction.** *American heart journal*
  Yang, D., O'Brien, C. G., Ikeda, G., Traverse, J. H., Taylor, D. A., Henry, T. D., Bolli, R., Yang, P. C.
  2019; 220: 155–75

- **Combined T2 -preparation and multidimensional outer volume suppression for coronary artery imaging with 3D cones trajectories.** *Magnetic resonance in medicine*
  Zeng, D. Y., Baron, C. A., Malave, M. O., Kerr, A. B., Yang, P. C., Hu, B. S., Nishimura, D. G.
  2019

- **Broad Genetic Testing in a Clinical Setting Uncovers a High Prevalence of Titin Loss-of-Function Variants in Very Early-Onset Atrial Fibrillation.** *Circulation. Genomic and precision medicine*
  Goodyer, W. R., Dunn, K., Caleshu, C., Jackson, M., Wylie, J., Moscarello, T., Platt, J., Reuter, C., Smith, A., Trela, A., Ceresnak, S. R., Motonaga, K. S., Ashley, et al
  2019

- **Stem Cell-Derived Exosomes Protect Astrocyte Cultures From in vitro Ischemia and Decrease Injury as Post-stroke Intravenous Therapy.** *Frontiers in cellular neuroscience*
  Sun, X., Jung, J. H., Arvola, O., Santoso, M. R., Giffard, R. G., Yang, P. C., Stary, C. M.
  2019; 13: 394

- **Stem Cell-Derived Exosomes Protect Astrocyte Cultures From in vitro Ischemia and Decrease Injury as Post-stroke Intravenous Therapy** *FRONTIERS IN CELLULAR NEUROSCIENCE*
  Sun, X., Jung, J., Arvola, O., Santoso, M. R., Giffard, R. G., Yang, P. C., Stary, C. M.
  2019; 13

- **Myocardial viability of the peri-infarct region measured by T1 mapping post manganese-enhanced MRI correlates with LV dysfunction** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
  Tada, Y., Heidary, S., Tachibana, A., Zaman, J., Neofytou, E., Dash, R., Wu, J. C., Yang, P. C.
  2019; 281: 8–14

- **MICROVESICLES LARGER THAN 200NM RESCUE CARDIOMYOCYTES FROM DOXORUBICIN INJURY IN A PATIENT-SPECIFIC MODEL OF ANTHRACYCLINE INDUCED CARDIOMYOPATHY**
  O'Brien, C., Shi, L., Ozgun, M., Vaskova, E., Santoso, M., Jung, J., Ikeda, G., Demirci, U., Yang, P.
  ELSEVIER SCIENCE INC.2019: 688

- **Whole-heart coronary MR angiography using a 3D cones phyllotaxis trajectory** *MAGNETIC RESONANCE IN MEDICINE*
  Malave, M. O., Baron, C. A., Addy, N., Cheng, J. Y., Yang, P. C., Hu, B. S., Nishimura, D. G.
  2019; 81 (2): 1092–1103

- **Myocardial viability of the peri-infarct region measured by T1 mapping post manganese-enhanced MRI correlates with LV dysfunction.** *International journal of cardiology*
  Tada, Y., Heidary, S., Tachibana, A., Zaman, J., Neofytou, E., Dash, R., Wu, J. C., Yang, P. C.
  2019

- **Defining genotype-phenotype relationships in patients with hypertrophic cardiomyopathy using cardiovascular magnetic resonance imaging.** *PloS one*
  Miller, R. J., Heidary, S. n., Pavlovic, A. n., Schlachter, A. n., Dash, R. n., Fleischmann, D. n., Ashley, E. A., Wheeler, M. T., Yang, P. C.
  2019; 14 (6): e0217612

- **Exosomal miR-106a-363 Cluster Repairs the Injured Myocardium**
  Jung, J., Tada, Y., Wahlquist, C., Bornstadt, D., Santoso, M., Woo, J., Mercola, M., Yang, P.
  LIPPINCOTT WILLIAMS & WILKINS.2018

- **Microvesicles Rescue Cardiomyocytes From Doxorubicin Injury in a Patient Specific Model of Anthracycline Induced Cardiomyopathy**
  O'Brien, C. G., Shi, L., Santoso, M. R., Jung, J., Vaskova, E., Ikeda, G., Ozen, M. O., Demirci, U., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2018

- **Mitochondria-Containing Extracellular Vesicles Restore Intracellular ATP Production and Promote Viability in Injured Induced Pluripotent Stem Cell-Derived Cardiomyocytes**
  Ikeda, G., Santoso, M. R., Tada, Y., Vaskova, E., Jung, J., Galen, C. O., Shi, L., Yang, P.
  LIPPINCOTT WILLIAMS & WILKINS.2018

- **Exosomes From Induced Pluripotent Stem Cell-Derived Cardiomyocytes Salvage the Injured Myocardium by Modulation of Autophagy**
  Santoso, M. R., Tada, Y., Ikeda, G., Jung, J., Vaskova, E., Sierra, R. G., Gati, C., Goldstone, A. B., Bornstaedt, D., Shukla, P., Wu, J. C., Wakatsuki, S., Woo, et al
  LIPPINCOTT WILLIAMS & WILKINS.2018

- **Whole-heart coronary MR angiography using a 3D cones phyllotaxis trajectory.** *Magnetic resonance in medicine*
  Malave, M. O., Baron, C. A., Addy, N. O., Cheng, J. Y., Yang, P. C., Hu, B. S., Nishimura, D. G.
  2018

- **Rationale and Design of the SENECA (StEm cell iNjECtion in cAncer survivors) Trial** *AMERICAN HEART JOURNAL*
  Bolli, R., Hare, J. M., Henry, T. D., Lenneman, C. G., March, K. L., Miller, K., Pepine, C. J., Perin, E. C., Traverse, J. H., Willerson, J. T., Yang, P. C., Gee, A. P., Lima, et al
  2018; 201: 54–62

- **Rationale and Design of the CONCERT-HF Trial (Combination of Mesenchymal and c-kit(+) Cardiac Stem Cells As Regenerative Therapy for Heart Failure)** *CIRCULATION RESEARCH*
  Bolli, R., Hare, J. M., March, K. L., Pepine, C. J., Willerson, J. T., Perin, E. C., Yang, P. C., Henry, T. D., Traverse, J. H., Mitrani, R. D., Khan, A., Hernandez-Schulman, I., Taylor, et al
  2018; 122 (12): 1703–15

- **MANGANESE-ENHANCED T1 MAPPING IN MYOCARDIAL INFARCTION: VALIDATION WITH F-18-FDG PET/MR**
  Spath, N. B., Tavares, A., Gray, G. A., Dweck, M. R., Newby, D. E., Yang, P. C., Jansen, M. A., Semple, S. I.
  BMJ PUBLISHING GROUP.2018: A9

- **EXOSOMES PRODUCED BY HUMAN AMNIOTIC MESENCHYMAL STEM CELL-DERIVED INDUCED PLURIPOTENT STEM CELLS MODULATE IMMUNE RESPONSE IN MURINE MYOCARDIAL INJURY MODEL**
  Jang, A., Seo, H., Bornstaedt, D., Jung, J., Vaskova, E., Yang, P.
  ELSEVIER SCIENCE INC.2018: 82

- **EXOSOMAL MIR-106A-363 CLUSTER FROM THE HYPOXIC HUMAN IPSC-DERIVED CARDIOMYOCYTES RESTORE THE ISCHEMIC MYOCARDIUM**
  Jung, J., Tada, Y., Bornstaedt, D., Wahlquist, C., Mercola, M., Woo, Y., Yang, P.
  ELSEVIER SCIENCE INC.2018: 14

- **PLEIOTROPIC EFFECTS OF THE EXOSOMES FROM IPSC-DERIVATIVES IN RESTORING INJURED MYOCARDIUM**
  Vaskova, E., Tada, Y., von Bornstaedt, D., Woo, Y., Yang, P.
  ELSEVIER SCIENCE INC.2018: 80

- **Circulating Biomarkers to Identify Responders in Cardiac Cell therapy (vol 7, 4419, 2017)** *SCIENTIFIC REPORTS*
  Jokerst, J. V., Cauwenberghs, N., Kuznetsova, T., Haddad, F., Sweeney, T., Hou, J., Rosenberg-Hasson, Y., Zhao, E., Schutt, R., Bolli, R., Traverse, J. H., Pepine, C. J., Henry, et al
  2018; 8: 4257

- **Induced Pluripotent Stem Cell (iPSC)-Derived Exosomes for Precision Medicine in Heart Failure** *CIRCULATION RESEARCH*
  Yang, P. C.
  2018; 122 (5): 661–63

- **Effect of Cell Sex on Uptake of Nanoparticles: The Overlooked Factor at the Nanobio Interface** *ACS NANO*

Serpooshan, V., Sheibani, S., Pushparaj, P., Wojcik, M., Jang, A. Y., Santoso, M. R., Jang, J. H., Huang, H., Safavi-Sohi, R., Haghjoo, N., Nejadnik, H., Aghaverdi, H., Vali, et al

2018; 12 (3): 2253–66

- **Imaging cellular pharmacokinetics of F-18-FDG and 6-NBDG uptake by inflammatory and stem cells** *PLOS ONE*

  Zaman, R. T., Tuerkcan, S., Mahmoudi, M., Saito, T., Yang, P. C., Chin, F. T., McConnell, M. V., Xing, L.

  2018; 13 (2): e0192662

- **TIME Trial: Effect of Timing of Stem Cell Delivery Following ST-Elevation Myocardial Infarction on the Recovery of Global and Regional Left Ventricular Function: Final 2-Year Analysis** *CIRCULATION RESEARCH*

  Traverse, J. H., Henry, T. D., Pepine, C. J., Willerson, J. T., Chugh, A., Yang, P. C., Zhao, D. X. M., Ellis, S. G., Forder, J. R., Perin, E. C., Penn, M. S., Hatzopoulos, A. K., Chambers, et al

  2018; 122 (3): 479–88

- **Molecular Imaging of Stem Cells and Exosomes for Myocardial Regeneration** *CURRENT CARDIOVASCULAR IMAGING REPORTS*

  Santoso, M. R., Yang, P. C.

  2017; 10 (11)

- **Challenging the complementarity of different metrics of left atrial function: insight from a cardiomyopathy-based study** *EUROPEAN HEART JOURNAL-CARDIOVASCULAR IMAGING*

  Kobayashi, Y., Moneghetti, K. J., Boralkar, K., Amsallem, M., Tuzovic, M., Liang, D., Yang, P. C., Narayan, S., Kuznetsova, T., Wu, J. C., Schnittger, I., Haddad, F.

  2017; 18 (10): 1153–62

- **Advanced glycation end-product (AGE)-albumin from activated macrophage is critical in human mesenchymal stem cells survival and post-ischemic reperfusion injury** *SCIENTIFIC REPORTS*

  Son, M., Kang, W., Oh, S., Bayarsaikhan, D., Ahn, H., Lee, J., Park, H., Lee, S., Choi, J., Lee, H., Yang, P. C., Byun, K., Lee, et al

  2017; 7: 11593

- **Paracrine Effects of the Pluripotent Stem Cell-Derived Cardiac Myocytes Salvage the Injured Myocardium** *CIRCULATION RESEARCH*

  Tachibana, A., Santoso, M. R., Mahmoudi, M., Shukla, P., Wang, L., Bennett, M., Goldstone, A. B., Wang, M., Fukushi, M., Ebert, A. D., Woo, Y., Rulifson, E., Yang, et al

  2017; 121 (6): E22-+

- **Myocardial Edema on T2-Weighted MRI New Marker of Ischemia Reperfusion Injury and Adverse Myocardial Remodeling** *CIRCULATION RESEARCH*

  Tada, Y., Yang, P. C.

  2017; 121 (4): 326–28

- **T1 Map of Post-Myocardial Infarction for Precise Tissue Characterization.** *Circulation. Cardiovascular imaging*

  Youssef, A. A., Yang, P. C.

  2017; 10 (8)

- **T1 Map of Post-Myocardial Infarction for Precise Tissue Characterization** *CIRCULATION-CARDIOVASCULAR IMAGING*

  Youssef, A. A., Yang, P. C.

  2017; 10 (8)

- **Circulating Biomarkers to Identify Responders in Cardiac Cell therapy** *SCIENTIFIC REPORTS*

  Jokerst, J. V., Cauwenberghs, N., Kuznetsova, T., Haddad, F., Sweeney, T., Hou, J., Rosenberg-Hasson, Y., Zhao, E., Schutt, R., Bolli, R., Traverse, J. H., Pepine, C. J., Henry, et al

  2017; 7: 4419

- **Peripheral Blood Cytokine Levels After Acute Myocardial Infarction IL-1 beta- and IL-6-Related Impairment of Bone Marrow Function** *CIRCULATION RESEARCH*

  Shahrivari, M., Wise, E., Resende, M., Shuster, J. J., Zhang, J., Bolli, R., Cooke, J. P., Hare, J. M., Henry, T. D., Khan, A., Taylor, D. A., Traverse, J. H., Yang, et al

  2017; 120 (12): 1947–57

- **3D image-based navigators for coronary MR angiography** *MAGNETIC RESONANCE IN MEDICINE*

  Addy, N. O., Ingle, R. R., Luo, J., Baron, C. A., Yang, P. C., Hu, B. S., Nishimura, D. G.

  2017; 77 (5): 1874-1883

- **Evaluation of Cell Therapy on Exercise Performance and Limb Perfusion in Peripheral Artery Disease: The CCTRN Patients with Intermittent Claudication Injected with ALDH Bright Cells (PACE) Trial.** *Circulation*
  Perin, E. C., Murphy, M. P., March, K. L., Bolli, R., Loughran, J., Yang, P. C., Leeper, N. J., Dalman, R. L., Alexander, J. Q., Henry, T. D., Traverse, J. H., Pepine, C. J., Anderson, et al
  2017

- **Exosomes Generated From iPSC-Derivatives New Direction for Stem Cell Therapy in Human Heart Diseases** *CIRCULATION RESEARCH*
  Jung, J., Fu, X., Yang, P. C.
  2017; 120 (2): 407-417

- **Identification of cardiovascular risk factors associated with bone marrow cell subsets in patients with STEMI: a biorepository evaluation from the CCTRN TIME and LateTIME clinical trials** *BASIC RESEARCH IN CARDIOLOGY*
  Contreras, A., Orozco, A. F., Resende, M., Schutt, R. C., Traverse, J. H., Henry, T. D., Lai, D., Cooke, J. P., Bolli, R., Cohen, M. L., Moye, L., Pepine, C. J., Yang, et al
  2017; 112 (1)

- **The Protein Corona around Nanoparticles Facilitates Stem Cell Labeling for Clinical MR Imaging.** *Radiology*
  Nejadnik, H. n., Taghavi-Garmestani, S. M., Madsen, S. J., Li, K. n., Zanganeh, S. n., Yang, P. n., Mahmoudi, M. n., Daldrup-Link, H. E.
  2017: 170130

- **A PET/MR Imaging Approach for the Integrated Assessment of Chemotherapy-induced Brain, Heart, and Bone Injuries in Pediatric Cancer Survivors: A Pilot Study.** *Radiology*
  Theruvath, A. J., Ilivitzki, A. n., Muehe, A. n., Theruvath, J. n., Gulaka, P. n., Kim, C. n., Luna-Fineman, S. n., Sakamoto, K. M., Yeom, K. W., Yang, P. n., Moseley, M. n., Chan, F. n., Daldrup-Link, et al
  2017: 170073

- **Baseline assessment and comparison of arterial anatomy, hyperemic flow, and skeletal muscle perfusion in peripheral artery disease: The Cardiovascular Cell Therapy Research Network "Patients with Intermittent Claudication Injected with ALDH Bright Cells" (CCTRN PACE) study** *AMERICAN HEART JOURNAL*
  Venkatesh, B. A., Nauffal, V., Noda, C., Fujii, T., Yang, P. C., Bettencourt, J., Ricketts, E. P., Murphy, M., Leeper, N. J., Moye, L., Ebert, R. F., Muthupillai, R., Bluemke, et al
  2017; 183: 24-34

- **The NHLBI TIME Trial: Role of Microvascular Obstruction in 2-Year Clinical and MRI Follow-up**
  Traverse, J. H., Henry, T. D., Pepine, C. J., Willerson, J. T., Perin, E. C., Taylor, D. A., Chugh, A. R., Yang, P. C., Ellis, S. G., Zhao, D. X., Penn, M. S., Forder, J. R., Ebert, et al
  LIPPINCOTT WILLIAMS & WILKINS.2016: E710

- **Administration of ALDH Bright Cells to Patients With Intermittent Claudication: The NHLBI CCTRN PACE Trial**
  Perin, E. C., Murphy, M., March, K., Bolli, R., Leeper, N. J., Yang, P. C., Alexander, J., Henry, T. D., Traverse, J. H., Pepine, C. J., Willerson, J. T., Velasquez, O., Hare, et al
  LIPPINCOTT WILLIAMS & WILKINS.2016: E709

- **Apelin-13 infusion salvages the peri-infarct region to preserve cardiac function after severe myocardial injury** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
  Chung, W., Cho, A., Byun, K., Moon, J., Ge, X., Seo, H., Moon, E., Dash, R., Yang, P. C.
  2016; 222: 361-367

- **Magnetic Resonance Imaging of Cardiac Strain Pattern Following Transplantation of Human Tissue Engineered Heart Muscles** *CIRCULATION-CARDIOVASCULAR IMAGING*
  Qin, X., Riegler, J., Tiburcy, M., Zhao, X., Chour, T., Ndoye, B., Michael Nguyen, M., Adams, J., Ameen, M., Denney, T. S., Yang, P. C., Patricia Nguyen, P., Zimmermann, et al
  2016; 9 (11)

- **The Promise and Challenge of Induced Pluripotent Stem Cells for Cardiovascular Applications.** *JACC. Basic to translational science*
  Youssef, A. A., Ross, E. G., Bolli, R., Pepine, C. J., Leeper, N. J., Yang, P. C.
  2016; 1 (6): 510-523

- **Challenging the complementarity of different metrics of left atrial function: insight from a cardiomyopathy-based study.** *European heart journal cardiovascular Imaging*
  Kobayashi, Y., Moneghetti, K. J., Boralkar, K., Amsallem, M., Tuzovic, M., Liang, D., Yang, P. C., Narayan, S., Kuznetsova, T., Wu, J. C., Schnittger, I., Haddad, F.

2016

- **Aligned nanofibrillar collagen scaffolds - Guiding lymphangiogenesis for treatment of acquired lymphedema.** *Biomaterials*
  Hadamitzky, C., Zaitseva, T. S., Bazalova-Carter, M., Paukshto, M. V., Hou, L., Strassberg, Z., Ferguson, J., Matsuura, Y., Dash, R., Yang, P. C., Kretchetov, S., Vogt, P. M., Rockson, et al
  2016; 102: 259-267

- **Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part I. Reporter Gene Design, Characterization, and Optical in Vivo Imaging of Bone Marrow Stromal Cells after Myocardial Infarction.** *Radiology*
  Parashurama, N., Ahn, B., Ziv, K., Ito, K., Paulmurugan, R., Willmann, J. K., Chung, J., Ikeno, F., Swanson, J. C., Merk, D. R., Lyons, J. K., Yerushalmi, D., Teramoto, et al
  2016; 280 (3): 815-825

- **Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part II. In Vivo Imaging of Bone Marrow Stromal Cells in Swine with PET/CT and MR Imaging.** *Radiology*
  Parashurama, N., Ahn, B., Ziv, K., Ito, K., Paulmurugan, R., Willmann, J. K., Chung, J., Ikeno, F., Swanson, J. C., Merk, D. R., Lyons, J. K., Yerushalmi, D., Teramoto, et al
  2016; 280 (3): 826-836

- **Bone marrow cell characteristics associated with patient profile and cardiac performance outcomes in the LateTIME-Cardiovascular Cell Therapy Research Network (CCTRN) trial.** *American heart journal*
  Bhatnagar, A., Bolli, R., Johnstone, B. H., Traverse, J. H., Henry, T. D., Pepine, C. J., Willerson, J. T., Perin, E. C., Ellis, S. G., Zhao, D. X., Yang, P. C., Cooke, J. P., Schutt, et al
  2016; 179: 142-150

- **Novel MRI Contrast Agent from Magnetotactic Bacteria Enables In Vivo Tracking of iPSC-derived Cardiomyocytes** *SCIENTIFIC REPORTS*
  Mahmoudi, M., Tachibana, A., Goldstone, A. B., Woo, Y. J., Chakraborty, P., Lee, K. R., Foote, C. S., Piecewicz, S., Barrozo, J. C., Wakeel, A., Rice, B. W., Bell, C. B., Yang, et al
  2016; 6

- **3D image-based navigators for coronary MR angiography.** *Magnetic resonance in medicine*
  Addy, N. O., Ingle, R. R., Luo, J., Baron, C. A., Yang, P. C., Hu, B. S., Nishimura, D. G.
  2016

- **TARGETED SUPERPARAMAGNETIC IRON OXIDE NANOPARTICLES FACILITATE ENGRAFTMENT OF THE IPSC-DERIVED CARDIOMYOCYTES INTO THE INJURED MURINE MYOCARDIUM**
  Mahmoudi, M., Tachibana, A., Cohen, J., Goldstone, A., Edwards, B., Rulifson, E., Woo, Y., Yang, P.
  ELSEVIER SCIENCE INC.2016: 2126

- **EXOSOMES FROM THE HUMAN PLACENTA-DERIVED AMNIOTIC MESENCHYMAL STEM CELLS RESTORE THE INJURED MURINE MYOCARDIUM**
  Santoso, M., Mahmoudi, M., Tachibana, A., Sierra, R. G., Matsui, T., Goldstone, A., Edwards, B., Wakatsuki, S., Woo, J., Yang, P.
  ELSEVIER SCIENCE INC.2016: 1393

- **Concise Review: Review and Perspective of Cell Dosage and Routes of Administration From Preclinical and Clinical Studies of Stem Cell Therapy for Heart Disease** *STEM CELLS TRANSLATIONAL MEDICINE*
  Golpanian, S., Schulman, I. H., Ebert, R. F., Heldman, A. W., Difede, D. L., Yang, P. C., Wu, J. C., Bolli, R., Perin, E. C., Moye, L., Simari, R. D., Wolf, A., Hare, et al
  2016; 5 (2): 186-191

- **Telmisartan in the diabetic murine model of acute myocardial infarction: dual contrast manganese-enhanced and delayed enhancement MRI evaluation of the peri-infarct region.** *Cardiovascular diabetology*
  Toma, I., Kim, P. J., Dash, R., McConnell, M. V., Nishimura, D., Harnish, P., Yang, P. C.
  2016; 15 (1): 24-?

- **Infection-resistant MRI-visible scaffolds for tissue engineering applications.** *BioImpacts : BI*
  Mahmoudi, M., Zhao, M., Matsuura, Y., Laurent, S., Yang, P. C., Bernstein, D., Ruiz-Lozano, P., Serpooshan, V.
  2016; 6 (2): 111-115

- **in Patients with Non-ST Elevation Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention: Results from a Multicentre, Placebo-Controlled, Randomized Trial.** *Evidence-based complementary and alternative medicine*
  Wang, L., Zhao, X., Mao, S., Liu, S., Guo, X., Guo, L., Du, T., Yang, H., Zhao, F., Wu, K., Cong, H., Wu, Y., Yang, et al

2016; 2016: 7960503-?

- **Efficacy of Danlou Tablet in Patients with Non-ST Elevation Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention: Results from a Multicentre, Placebo-Controlled, Randomized Trial** *EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE*
  Wang, L., Zhao, X., Mao, S., Liu, S., Guo, X., Guo, L., Du, T., Yang, H., Zhao, F., Wu, K., Cong, H., Wu, Y., Yang, et al
  2016
- **Novel MRI Contrast Agent from Magnetotactic Bacteria Enables In Vivo Tracking of iPSC-derived Cardiomyocytes.** *Scientific reports*
  Mahmoudi, M., Tachibana, A., Goldstone, A. B., Woo, Y. J., Chakraborty, P., Lee, K. R., Foote, C. S., Piecewicz, S., Barrozo, J. C., Wakeel, A., Rice, B. W., Bell Iii, C. B., Yang, et al
  2016; 6: 26960-?
- **Magnetic Nanoparticles for Targeting and Imaging of Stem Cells in Myocardial Infarction** *STEM CELLS INTERNATIONAL*
  Santoso, M. R., Yang, P. C.
  2016
- **Rationale and Design of Sodium Tanshinone IIA Sulfonate in Left Ventricular Remodeling Secondary to Acute Myocardial Infarction (STAMP-REMODELING) Trial: A Randomized Controlled Study** *CARDIOVASCULAR DRUGS AND THERAPY*
  Mao, S., Li, X., Wang, L., Yang, P. C., Zhang, M.
  2015; 29 (6): 535-542
- **Rationale and Design of Sodium Tanshinone IIA Sulfonate in Left Ventricular Remodeling Secondary to Acute Myocardial Infarction (STAMP-REMODELING) Trial: A Randomized Controlled Study.** *Cardiovascular drugs and therapy*
  Mao, S., Li, X., Wang, L., Yang, P. C., Zhang, M.
  2015; 29 (6): 535-542
- **Epicardial FSTL1 reconstitution regenerates the adult mammalian heart.** *Nature*
  Wei, K., Serpooshan, V., Hurtado, C., Diez-Cuñado, M., Zhao, M., Maruyama, S., Zhu, W., Fajardo, G., Noseda, M., Nakamura, K., Tian, X., Liu, Q., Wang, et al
  2015; 525 (7570): 479-485
- **Epicardial FSTL1 reconstitution regenerates the adult mammalian heart** *NATURE*
  Wei, K., Serpooshan, V., Hurtado, C., Diez-Cunado, M., Zhao, M., Maruyama, S., Zhu, W., Fajardo, G., Noseda, M., Nakamura, K., Tian, X., Liu, Q., Wang, et al
  2015; 525 (7570): 479-?
- **Protein Corona Influences Cell-Biomaterial Interactions in Nanostructured Tissue Engineering Scaffolds** *ADVANCED FUNCTIONAL MATERIALS*
  Serpooshan, V., Mahmoudi, M., Zhao, M., Wei, K., Sivanesan, S., Motamedchaboki, K., Malkovskiy, A. V., Goldstone, A. B., Cohen, J. E., Yang, P. C., Rajadas, J., Bernstein, D., Woo, et al
  2015; 25 (28): 4379-4389
- **Protein Corona Influences Cell-Biomaterial Interactions in Nanostructured Tissue Engineering Scaffolds.** *Advanced functional materials*
  Serpooshan, V., Mahmoudi, M., Zhao, M., Wei, K., Sivanesan, S., Motamedchaboki, K., Malkovskiy, A. V., Gladstone, A. B., Cohen, J. E., Yang, P. C., Rajadas, J., Bernstein, D., Woo, et al
  2015; 25 (28): 4379-4389
- **Low-Dose FK506 (Tacrolimus) in End-Stage Pulmonary Arterial Hypertension.** *American journal of respiratory and critical care medicine*
  Spiekerkoetter, E., Sung, Y. K., Sudheendra, D., Bill, M., Aldred, M. A., van de Veerdonk, M. C., Vonk Noordegraaf, A., Long-Boyle, J., Dash, R., Yang, P. C., Lawrie, A., Swift, A. J., Rabinovitch, et al
  2015; 192 (2): 254-257
- **Immunologic Network and Response to Intramyocardial CD34(+) Stem Cell Therapy in Patients With Dilated Cardiomyopathy** *JOURNAL OF CARDIAC FAILURE*
  Haddad, F., Sever, M., Poglajen, G., Lezaic, L., Yang, P., Maecker, H., Davis, M., Kuznetsova, T., Wu, J. C., Vrtovec, B.
  2015; 21 (7): 572-582
- **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)

- **Direct evaluation of myocardial viability and stem cell engraftment demonstrates salvage of the injured myocardium.** *Circulation research*
  Kim, P. J., Mahmoudi, M., Ge, X., Matsuura, Y., Toma, I., Metzler, S., Kooreman, N. G., Ramunas, J., Holbrook, C., McConnell, M. V., Blau, H., Harnish, P., Rulifson, et al
  2015; 116 (7): e40-50

- **Direct Evaluation of Myocardial Viability and Stem Cell Engraftment Demonstrates Salvage of the Injured Myocardium** *CIRCULATION RESEARCH*
  Kim, P. J., Mahmoudi, M., Ge, X., Matsuura, Y., Toma, I., Metzler, S., Kooreman, N. G., Ramunas, J., Holbrook, C., McConnell, M. V., Blau, H., Harnish, P., Rulifson, et al
  2015; 116 (7): E40-?

- **INCREASED MYOCARDIAL VIABILITY AND FUNCTION MEASURED BY MANGANESE-ENHANCED MRI (MEMRI) DEMONSTRATE MYOCARDIAL REGENERATION BY HUMAN PLURIPOTENT STEM CELL DERIVED CARDIOMYOCYTES (HPCMS)**
  Tachibana, A., Rulifson, E., Matsuura, Y., Thakker, R., Wang, M., Wu, J., Dash, R., Yang, P.
  ELSEVIER SCIENCE INC.2015: A2147

- **USE OF HUMAN INDUCED PLURIPOTENT STEM CELL-DERIVED CARDIOMYOCYTES (ICMS) FOR HEART REGENERATION**
  Mahmoudi, M., Rulifson, E., Tachibana, A., Wang, M., Wu, J., Yang, P.
  ELSEVIER SCIENCE INC.2015: A848

- **Small-molecule inhibitors targeting INK4 protein p18(INK4C) enhance ex vivo expansion of haematopoietic stem cells** *NATURE COMMUNICATIONS*
  Gao, Y., Yang, P., Shen, H., Yu, H., Song, X., Zhang, L., Zhang, P., Cheng, H., Xie, Z., Hao, S., Dong, F., Ma, S., Ji, et al
  2015; 6

- **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)

- **Nonrigid autofocus motion correction for coronary MR angiography with a 3D cones trajectory.** *Magnetic resonance in medicine*
  Ingle, R. R., Wu, H. H., Addy, N. O., Cheng, J. Y., Yang, P. C., Hu, B. S., Nishimura, D. G.
  2014; 72 (2): 347-361

- **Mesenchymal stem cell therapy for cardiac repair.** *Current treatment options in cardiovascular medicine*
  Thakker, R., Yang, P.
  2014; 16 (7): 323

- **Graphite Oxide Nanoparticles with Diameter Greater than 20 nm Are Biocompatible with Mouse Embryonic Stem Cells and Can Be Used in a Tissue Engineering System.** *Small*
  Wang, I. E., Robinson, J. T., Do, G., Hong, G., Gould, D. R., Dai, H., Yang, P. C.
  2014; 10 (8): 1479-1484

- **Relationship between Echocardiographic and Magnetic Resonance Derived Measures of Right Ventricular Size and Function in Patients with Pulmonary Hypertension.** *Journal of the American Society of Echocardiography*
  Shiran, H., Zamanian, R. T., McConnell, M. V., Liang, D. H., Dash, R., Heidary, S., Sudini, N. L., Wu, J. C., Haddad, F., Yang, P. C.
  2014; 27 (4): 405-412

- **Multi-cellular interactions sustain long-term contractility of human pluripotent stem cell-derived cardiomyocytes.** *Am J Transl Res*
  PW, B., SA, M., KH, N., OJ, A., CS, S., MA, B., Y, M., PJ, K., JC, W., NF, H., PC, Y.
  2014; 6 (6)

- **Multi-cellular interactions sustain long-term contractility of human pluripotent stem cell-derived cardiomyocytes.** *American journal of translational research*
  Burridge, P. W., Metzler, S. A., Nakayama, K. H., Abilez, O. J., Simmons, C. S., Bruce, M. A., Matsuura, Y., Kim, P., Wu, J. C., Butte, M., Huang, N. F., Yang, P. C.
  2014; 6 (6): 724-735

- **Effects of Frequent Hemodialysis on Ventricular Volumes and Left Ventricular Remodeling** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*

Chan, C. T., Greene, T., Chertow, G. M., Kliger, A. S., Stokes, J. B., Beck, G. J., Daugirdas, J. T., Kotanko, P., Larive, B., Levin, N. W., Mehta, R. L., Rocco, M., Sanz, et al

2013; 8 (12): 2106-2116

- **Manganese-Enhanced MRI Enables Longitudinal in vivo Tracking of Transplanted Stem Cell Viability in the Murine Myocardium**

  Dash, R., Subramanian, A., Matsuura, Y., Sohn, I., Yeh, T., McConnell, M. V., Wu, J. C., Yang, P. C.

  LIPPINCOTT WILLIAMS & WILKINS.2013

- **Expert Consensus for Multi-Modality Imaging Evaluation of Cardiovascular Complications of Radiotherapy in Adults: A Report from the European Association of Cardiovascular Imaging and the American Society of Echocardiography** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*

  Lancellotti, P., Nkomo, V. T., Badano, L. P., Bergler, J., Bogaert, J., Davin, L., Cosyns, B., Coucke, P., Dulgheru, R., Edvardsen, T., Gaemperli, O., Galderisi, M., Griffin, et al

  2013; 26 (9): 1013-1032

- **Expert consensus for multi-modality imaging evaluation of cardiovascular complications of radiotherapy in adults: a report from the European Association of Cardiovascular Imaging and the American Society of Echocardiography.** *European heart journal cardiovascular Imaging*

  Lancellotti, P., Nkomo, V. T., Badano, L. P., Bergler-Klein, J., Bogaert, J., Davin, L., Cosyns, B., Coucke, P., Dulgheru, R., Edvardsen, T., Gaemperli, O., Galderisi, M., Griffin, et al

  2013; 14 (8): 721-740

- **Expert consensus for multi-modality imaging evaluation of cardiovascular complications of radiotherapy in adults: a report from the European Association of Cardiovascular Imaging and the American Society of Echocardiography** *EUROPEAN HEART JOURNAL-CARDIOVASCULAR IMAGING*

  Lancellotti, P., Nkomo, V. T., Badano, L. P., Bergler, J., Bogaert, J., Davin, L., Cosyns, B., Coucke, P., Dulgheru, R., Edvardsen, T., Gaemperli, O., Galderisi, M., Griffin, et al

  2013; 14 (8): 721-740

- **Phase II Clinical Research Design in Cardiology Learning the Right Lessons Too Well: Observations and Recommendations From the Cardiovascular Cell Therapy Research Network (CCTRN)** *CIRCULATION*

  Hare, J. M., Bolli, R., Cooke, J. P., Gordon, D. J., Henry, T. D., Perin, E. C., March, K. L., Murphy, M. P., Pepine, C. J., Simari, R. D., Skarlatos, S. I., Traverse, J. H., Willerson, et al

  2013; 127 (15): 1630-1635

- **A case of recurrent pericardial constriction presenting with severe pulmonary hypertension.** *Pulmonary circulation*

  Brunner, N. W., Ramachandran, K., Kudelko, K. T., Sung, Y. K., Spiekerkoetter, E., Yang, P. C., Zamanian, R. T., Perez, V. d.

  2013; 3 (2): 436-439

- **SUSTAINED RESTORATION OF LV FUNCTION IN A PORCINE ISCHEMIA-REPERFUSION INJURY MODEL USING HUMAN PLACENTAL MESENCHYMAL STEM CELLS AND MANGANESE-ENHANCED MRI** *62nd Annual Scientific Session of the American-College-of-Cardiology*

  Dash, R., Kim, P., Matsuura, Y., Ikeno, F., Lyons, J., Ge, X., Metzler, S., Huang, N., Nguyen, P., Wu, J. C., Cooke, J., Luiz-Rozano, P., Robbins, et al

  ELSEVIER SCIENCE INC.2013: E1142–E1142

- **VALIDATION OF INFARCT CHARACTERIZATION IN A PORCINE ISCHEMIA REPERFUSION INJURY MODEL** *62nd Annual Scientific Session of the American-College-of-Cardiology*

  Nakagawa, K., Ikeno, F., Matsuura, Y., Lyons, J., Nguyen, P., Wu, J., Yeung, A. C., Yang, P. C., Dash, R.

  ELSEVIER SCIENCE INC.2013: E617–E617

- **DUAL CONTRAST CARDIAC MRI FOR EVALUATION OF TELMISARTAN AND AMLODIPINE COMBINATION THERAPY IN THE DIABETIC MURINE MYOCARDIAL INJURY MODEL** *62nd Annual Scientific Session of the American-College-of-Cardiology*

  Kim, P., Gong, Y., Harnish, P., Toma, I., Dash, R., Robbins, R., Yang, P.

  ELSEVIER SCIENCE INC.2013: E941–E941

- **REGENERATIVE CHANGES OF THE PERI-INFARCT INJURY ALLOWS SUSTAINED RESTORATION OF THE INJURED MYOCARDIUM** *62nd Annual Scientific Session of the American-College-of-Cardiology*

  Kim, P., Gong, Y., Ge, X., Harnish, P., Dash, R., Robbins, R., Yang, P.

  ELSEVIER SCIENCE INC.2013: E1074–E1074

- **Performing Dual Contrast Cardiac MRI to Determine the Underlying Mechanism of Cell-based Therapy**

  Kim, P. J., Ge, X., Toma, I., Gong, Y., Chang, P., Harnish, P., Yang, P.

  LIPPINCOTT WILLIAMS & WILKINS.2012

- **Relationship Between Echocardiographic and MRI-derived Measures of RV Size and Function in Patients with Pulmonary Arterial Hypertension**
  Shiran, H., Liang, D. H., Dash, R., Heidary, S., Sudini, N. L., Seo, H., Wu, J. C., Haddad, F., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2012

- **The Human Amniotic Mesenchymal Stem Cell-derived Ipscs Survive and Restore the Injured Hearts in an Immunocompetent Mouse Model of Myocardial Injury**
  Ge, X., Chung, W., Kim, P. J., Gong, Y., Chang, P., Robbins, R., Dash, R., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2012

- **Human amniotic mesenchymal stem cell-derived induced pluripotent stem cells may generate a universal source of cardiac cells.** *Stem cells and development*
  Ge, X., Wang, I. E., Toma, I., Sebastiano, V., Liu, J., Butte, M. J., Reijo Pera, R. A., Yang, P. C.
  2012; 21 (15): 2798-2808

- **Human Amniotic Mesenchymal Stem Cell-Derived Induced Pluripotent Stem Cells May Generate a Universal Source of Cardiac Cells** *STEM CELLS AND DEVELOPMENT*
  Ge, X., Wang, I. E., Toma, I., Sebastiano, V., Liu, J., Butte, M. J., Pera, R. A., Yang, P. C.
  2012; 21 (15): 2798-2808

- **Bone marrow cell therapy in clinical trials: a review of the literature.** *Reviews on recent clinical trials*
  Kim, P. J., Yang, P. C.
  2012; 7 (3): 204-213

- **Theranostic effect of serial manganese-enhanced magnetic resonance imaging of human embryonic stem cell derived teratoma** *MAGNETIC RESONANCE IN MEDICINE*
  Chung, J., Dash, R., Kee, K., Barral, J. K., Kosuge, H., Robbins, R. C., Nishimura, D., Reijo-Pera, R. A., Yang, P. C.
  2012; 68 (2): 595-599

- **Is Reliable In Vivo Detection of Stem Cell Viability Possible in a Large Animal Model of Myocardial Injury?** *CIRCULATION*
  Yang, P. C.
  2012; 126 (4): 388-390

- **Apelin Enhances Directed Cardiac Differentiation of Mouse and Human Embryonic Stem Cells** *PLOS ONE*
  Wang, I. E., Wang, X., Ge, X., Anderson, J., Ho, M., Ashley, E., Liu, J., Butte, M. J., Yazawa, M., Dolmetsch, R. E., Quertermous, T., Yang, P. C.
  2012; 7 (6)

- **Determinants of Left Ventricular Mass in Patients on Hemodialysis Frequent Hemodialysis Network (FHN) Trials** *CIRCULATION-CARDIOVASCULAR IMAGING*
  Chan, C. T., Greene, T., Chertow, G. M., Kliger, A. S., Stokes, J. B., Beck, G. J., Daugirdas, J. T., Kotanko, P., Larive, B., Levin, N. W., Mehta, R. L., Rocco, M., Sanz, et al
  2012; 5 (2): 251-261

- **Synthesis of an in vivo MRI-detectable apoptosis probe.** *Journal of visualized experiments : JoVE*
  Lam, J., Simpson, P. C., Yang, P. C., Dash, R.
  2012

- **Cardiovascular Magnetic Resonance Imaging Elucidates Genotype-Phenotype Relationships in Patients with Hypertrophic Cardiomyopathy** *Scientific Sessions of the American-Heart-Association/Resuscitation Science Symposium*
  Heidary, S., Wheeler, M. T., Bennett, M. V., Chung, J., Pavlovic, A., Parent, M., Dash, R., McConnell, M. V., Ashley, E. A., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2011

- **Robust Reprogramming Of human Placenta derived Mesenchymal Stem Cells Into Spontaneously Contractile Cardiomyocytes**
  Ge, X., Toma, I., Wang, I. E., Sebastiano, V., Reijo-Pera, R., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2011

- **In vivo Molecular MRI of Cell Survival and Teratoma Formation Following Embryonic Stem Cell Transplantation Into the Injured Murine Myocardium** *MAGNETIC RESONANCE IN MEDICINE*
  Chung, J., Kee, K., Barral, J. K., Dash, R., Kosuge, H., Wang, X., Weissman, I., Robbins, R. C., Nishimura, D., Quertermous, T., Reijo-Pera, R. A., Yang, P. C.
  2011; 66 (5): 1374-1381

- **A Molecular MRI Probe to Detect Treatment of Cardiac Apoptosis In Vivo** *MAGNETIC RESONANCE IN MEDICINE*
  Dash, R., Chung, J., Chan, T., Yamada, M., Barral, J., Nishimura, D., Yang, P. C., Simpson, P. C.
  2011; 66 (4): 1152-1162

- **Contrast echocardiography: finding its place in stem cell therapy** *MINERVA CARDIOANGIOLOGICA*
  Kim, P. J., Yang, P. C.
  2011; 59 (5): 491-497

- **Dual Manganese-Enhanced and Delayed Gadolinium-Enhanced MRI Detects Myocardial Border Zone Injury in a Pig Ischemia-Reperfusion Model** *CIRCULATION-CARDIOVASCULAR IMAGING*
  Dash, R., Chung, J., Ikeno, F., Hahn-Windgassen, A., Matsuura, Y., Bennett, M. V., Lyons, J. K., Teramoto, T., Robbins, R. C., McConnell, M. V., Yeung, A. C., Brinton, T. J., Harnish, et al
  2011; 4 (5): 574-582

- **alpha B-Crystallin Improves Murine Cardiac Function and Attenuates Apoptosis in Human Endothelial Cells Exposed to Ischemia-Reperfusion** *ANNALS OF THORACIC SURGERY*
  Velotta, J. B., Kimura, N., Chang, S. H., Chung, J., Itoh, S., Rothbard, J., Yang, P. C., Steinman, L., Robbins, R. C., Fischbein, M. P.
  2011; 91 (6): 1907-1913

- **RevaTen platelet-rich plasma improves cardiac function after myocardial injury** *CARDIOVASCULAR REVASCULARIZATION MEDICINE*
  Mishra, A., Velotta, J., Brinton, T. J., Wang, X., Chang, S., Palmer, O., Sheikh, A., Chung, J., Yang, P., Robbins, R., Fischbein, M.
  2011; 12 (3): 158–63

- **RevaTen platelet-rich plasma improves cardiac function after myocardial injury.** *Cardiovascular revascularization medicine : including molecular interventions*
  Mishra, A., Velotta, J., Brinton, T. J., Wang, X., Chang, S., Palmer, O., Sheikh, A., Chung, J., Yang, P. C., Robbins, R., Fischbein, M.
  2011; 12 (3): 158-163

- **Detection of Injured Border Zone Myocardium Using Manganese-Enhanced and Delayed-Enhanced MRI in a Pig Ischemia-Reperfusion Model**
  Dash, R., Chung, J., Hahn-Windgassen, A., Matsuura, Y., Ikeno, F., Lyons, J., Teramoto, T., Yeung, A. C., McConnell, M. V., Brinton, T. J., Harnish, P., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2010

- **Apelin Enhances Cardiac Differentiation of Human Embryonic Stem Cells**
  Wang, I. E., Chung, J., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2010

- **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

- **Positive Contrast with Alternating Repetition Time SSFP (PARTS): A Fast Imaging Technique for SPIO-Labeled Cells** *MAGNETIC RESONANCE IN MEDICINE*
  Cukur, T., Yamada, M., Overall, W. R., Yang, P., Nishimura, D. G.
  2010; 63 (2): 427-437

- **Molecular Imaging of Stem Cell Transplantation in Myocardial Disease.** *Current cardiovascular imaging reports*
  Chung, J. n., Yang, P. C.
  2010; 3 (2): 106–12

- **In vivo Kinetics of Embryonic Stem Cell Viability Following Transplantation Into the Injured Murine Myocardium** *82nd National Conference and Exhibitions and Scientific Sessions of the American-Heart-Association*
  Chung, J., Kee, K., Barral, J. K., Dash, R., Weissman, I., Quertermous, T., Robbins, R. C., Nishimura, D. G., Reijo-Pera, R. A., Yang, P. C.

LIPPINCOTT WILLIAMS & WILKINS.2009: S310–S311

- **Manganese-Guided Cellular MRI of Human Embryonic Stem Cell and Human Bone Marrow Stromal Cell Viability** *MAGNETIC RESONANCE IN MEDICINE*
  Yamada, M., Gurney, P. T., Chung, J., Kundu, P., Drukker, M., Smith, A. K., Weissman, I. L., Nishimura, D., Robbins, R. C., Yang, P. C.
  2009; 62 (4): 1047-1054

- **Magnetic resonance imaging of human embryonic stem cells.** *Current protocols in stem cell biology*
  Chung, J., Yamada, M., Yang, P. C.
  2009; Chapter 5: Unit 5A 3-?

- **Self-Refocused Spatial-Spectral Pulse for Positive Contrast Imaging of Cells Labeled with SPIO Nanoparticles** *MAGNETIC RESONANCE IN MEDICINE*
  Balchandani, P., Yamada, M., Pauly, J., Yang, P., Spielman, D.
  2009; 62 (1): 183-192

- **Comparison of Optical Bioluminescence Reporter Gene and Superparamagnetic Iron Oxide MR Contrast Agent as Cell Markers for Noninvasive Imaging of Cardiac Cell Transplantation** *MOLECULAR IMAGING AND BIOLOGY*
  Chen, I. Y., Greve, J. M., Gheysens, O., Willmann, J. K., Rodriguez-Porcel, M., Chu, P., Sheikh, A. Y., Faranesh, A. Z., Paulmurugan, R., Yang, P. C., Wu, J. C., Gambhir, S. S.
  2009; 11 (3): 178-187

- **Imaging Survival and Function of Transplanted Cardiac Resident Stem Cells** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Li, Z., Lee, A., Huang, M., Chun, H., Chung, J., Chu, P., Hoyt, G., Yang, P., Rosenberg, J., Robbins, R. C., Wu, J. C.
  2009; 53 (14): 1229-1240

- **Magnetic Resonance Imaging With Targeted Iron-Oxide Labeling Detects Differential Cardiac Cell Survival After Doxorubicin and Myocardial Infarction in Culture and In Vivo**
  Dash, R., Chan, T., Yamada, M., Paningbatan, M., Myagmar, B., Swigart, P. M., Yang, P. C., Simpson, P. C.
  ELSEVIER SCIENCE INC.2009: A304

- **In Vivo Serial Evaluation of Superparamagnetic Iron-Oxide Labeled Stem Cells by Off-Resonance Positive Contrast** *MAGNETIC RESONANCE IN MEDICINE*
  Suzuki, Y., Cunningham, C. H., Noguchi, K., Chen, I. Y., Weissman, I. L., Yeung, A. C., Robbins, R. C., Yang, P. C.
  2008; 60 (6): 1269-1275

- **Magnetic Resonance Imaging with Iran-Oxide Labeling Detects Differential Cell Survival after Doxorubicin Exposure in Cardiac Myocytes, Fibroblasts, and Stem Cells**
  Dash, R., Chan, T., Yamada, M., Paningbatan, M., Swigart, P. M., Myagmar, B., Yang, P. C., Simpson, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2008: S996

- **Multimodal evaluation of in vivo magnetic resonance imaging of myocardial restoration by mouse embryonic stem cells** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Hendry, S. L., van der Bogt, K. E., Sheikh, A. Y., Arai, T., Dylla, S. J., Drukker, M., McConnell, M. V., Kutschka, I., Hoyt, G., Cao, F., Weissman, I. L., Connolly, A. J., Pelletier, et al
  2008; 136 (4): 1028-U14

- **Multimodality Evaluation of the Viability of Stem Cells Delivered Into Different Zones of Myocardial Infarction** *CIRCULATION-CARDIOVASCULAR IMAGING*
  Hung, T., Suzuki, Y., Urashima, T., Caffarelli, A., Hoyt, G., Sheikh, A. Y., Yeung, A. C., Weissman, I., Robbins, R. C., Bulte, J. W., Yang, P. C.
  2008; 1 (1): 6-13

- **Human ESC vs. iPSC-Pros and Cons** *JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH*
  Pappas, J. J., Yang, P. C.
  2008; 1 (2): 96-99

- **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

- **Comparison of reporter gene and iron particle labeling for tracking fate of human embryonic stem cells and differentiated endothelial cells in living subjects** *STEM CELLS*
  Li, Z., Suzuki, Y., Huang, M., Cao, F., Xie, X., Connolly, A. J., Yang, P. C., Wu, J. C.
  2008; 26 (4): 864-873

- **In vitro differentiation of mouse embryonic stem (mES) cells using the hanging drop method.** *Journal of visualized experiments : JoVE*
  Wang, X., Yang, P.
  2008

- **In vitro labeling of human embryonic stem cells for magnetic resonance imaging.** *Journal of visualized experiments : JoVE*
  Yamada, M., Yang, P.
  2008

- **Gated micro computed tomography scanning: An emerging tool for longitudinal assessment of murine cardiac remodeling**
  Sheikh, A. Y., Doyle, T. C., Sheikh, M. K., Cao, F., Ransolhoff, K. J., Yang, P. C., Robbins, R. C., Fischlbein, M. P., Wul, J. C.
  LIPPINCOTT WILLIAMS & WILKINS.2007: 198

- **In vitro comparison of the biological effects of three transfection methods for magnetically labeling mouse embryonic stem cells with ferumoxides** *MAGNETIC RESONANCE IN MEDICINE*
  Suzuki, Y., Zhang, S., Kundu, P., Yeung, A. C., Robbins, R. C., Yang, P. C.
  2007; 57 (6): 1173-1179

- **Magnetic resonance imaging of progressive cardiomyopathic changes in the db/db mouse** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
  Yue, P., Arai, T., Terashima, M., Sheikh, A. Y., Cao, F., Charo, D., Hoyt, G., Robbins, R. C., Ashley, E. A., Wu, J., Yang, P. C., Tsao, P. S.
  2007; 292 (5): H2106-H2118

- **Cardiovascular MRI for stem cell therapy.** *Current cardiology reports*
  Suzuki, Y., Yeung, A. C., Yang, P. C.
  2007; 9 (1): 45-50

- **FeCo/graphitic-shell nanocrystals as advanced magnetic-resonance-imaging and near-infrared agents** *NATURE MATERIALS*
  Seo, W. S., Lee, J. H., Sun, X., Suzuki, Y., Mann, D., Liu, Z., Terashima, M., Yang, P. C., McConnell, M. V., Nishimura, D. G., Dai, H.
  2006; 5 (12): 971-976

- **Apelin reverses pathologic ventricular remodeling in the db/db obese mouse**
  Yue, P., Ernst, K., Terashima, M., Greve, J. M., Quertermous, T., Yang, P. C., Tsao, P. S.
  LIPPINCOTT WILLIAMS & WILKINS.2006: 174

- **Collagen matrices enhance survival of transplanted cardiomyoblasts and contribute to functional improvement of ischemic rat hearts** *78th Annual Scientific Session of the American-Heart-Association*
  Kutschka, I., Chen, I. Y., Kofidis, T., Arai, T., von Degenfeld, G., Sheikh, A. Y., Hendry, S. L., Pearl, J., Hoyt, G., Sista, R., Yang, P. C., Blau, H. M., Gambhir, et al
  LIPPINCOTT WILLIAMS & WILKINS.2006: I167–I173

- **Images in cardiovascular medicine. Cardiac magnetic resonance imaging for myocarditis: effective use in medical decision making.** *Circulation*
  Fenster, B. E., Chan, F. P., Valentine, H. A., Yang, E., McConnell, M. V., Berry, G. J., Yang, P. C.
  2006; 113 (22): e842-3

- **Cardiac magnetic resonance imaging for myocarditis - Effective use in medical decision making** *CIRCULATION*
  Fenster, B. E., Chan, F. P., Valentine, H. A., Yang, E., McConnell, M. V., Berry, G. J., Yang, P. C.
  2006; 113 (22): E842-E843

- **Dual in vivo magnetic resonance evaluation of magnetically labeled mouse embryonic stem cells and cardiac function at 1.5 T** *MAGNETIC RESONANCE IN MEDICINE*

Arai, T., Kofidis, T., Bulte, J. W., de Bruin, J., Venook, R. D., Berry, G. J., McConnell, M. V., Quertermous, T., Robbins, R. C., Yang, P. C.
2006; 55 (1): 203-209

- **Indirect magnetic resonance lymphangiography to assess lymphatic function in experimental murine lymphedema.** *Lymphatic research and biology*
  Pan, D., Suzuki, Y., Yang, P. C., Rockson, S. G.
  2006; 4 (4): 211-216

- **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

- **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

- **High-resolution real-time spiral MRI for guiding vascular interventions in a rabbit model at 1.5 T.** *Journal of magnetic resonance imaging : JMRI*
  Terashima, M., Hyon, M., de la Pena-Almaguer, E., Yang, P. C., Hu, B. S., Nayak, K. S., Pauly, J. M., McConnell, M. V.
  2005; 22 (5): 687-690

- **High-resolution real-time spiral MRI for guiding vascular interventions in a rabbit model at 1L.5T** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Terashima, M., Hyon, M., De La Pena-Almaguer, E., Yang, P. C., Hu, B. S., Nayalk, K. S., Pauly, J. M., McConnell, M. V.
  2005; 22 (5): 687-690

- **Myocardial restoration with embryonic stem cell transplantation in a murine myocardial infarction model** *78th Annual Scientific Session of the American-Heart-Association*
  Hendry, S. L., Arai, T., Dylla, S. J., Drukker, M., Sheikh, A. Y., Kutschka, I., Hoyt, G., Connolly, A., Pelletier, M., Wu, J. C., Yang, P. C., Robbins, R. C.
  LIPPINCOTT WILLIAMS & WILKINS.2005: U432–U432

- **Collagen matrices enhance survival of embryonic cardiomyoblasts following transplantation into ischemic rat hearts**
  Kutschka, Kofidis, T., Chen, I. Y., Arai, T., Sheikh, A. Y., Hendry, S. L., Pearl, J., Hoyt, G., Connolly, A., Yang, P. C., Gambhir, S. S., Robbins, R. C.
  LIPPINCOTT WILLIAMS & WILKINS.2005: U805

- **Magnetic resonance imaging of myocardial viability predicts future cardiovascular events in patients with severe ischemic cardiomyopathy** *78th Annual Scientific Session of the American-Heart-Association*
  Tsukiji, M., Nguyen, P., Narayan, G., Hellinger, J., Chan, F. P., Herfkens, R., McConnell, M. V., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2005: U529–U530

- **Myocardial restoration with embryonic stem cell transplantation in a murine myocardial infarction model** *78th Annual Scientific Session of the American-Heart-Association*
  Hendry, S. L., Arai, T., Dylla, S. J., Drukker, M., Sheikh, A. Y., Kutschka, I., Hoyt, G., Connolly, A., Pelletier, M., Wu, J. C., Yang, P. C., Robbins, R. C.
  LIPPINCOTT WILLIAMS & WILKINS.2005: U37–U38

- **POsitive contrast magnetic resonance imaging of cells labeled with magnetic nanoparticles** *MAGNETIC RESONANCE IN MEDICINE*
  Cunningham, C. H., Arai, T., Yang, P. C., McConnell, M. V., Pauly, J. M., Conolly, S. M.
  2005; 53 (5): 999-1005

- **Peri-infarct ischemia determined by comprehensive MR evaluation of myocardial viability and stress perfusion predicts future cardiovascular events in patients with severe ischemic cardiomyopathy** *54th Annual Scientific Session of the American-College-of-Cardiology*
  Tsukiji, M., Nguyen, P., Narayan, G., Hellinger, J., Chan, F., Herfkens, R., McConnell, M. V., Yang, P.
  ELSEVIER SCIENCE INC.2005: 446A–446A

- **Noninvasive assessment of coronary vasodilation using magnetic resonance angiography** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Terashima, M., Meyer, C. H., Keeffe, B. G., Putz, E. J., De La Pena-Almaguer, E., Yang, P. C., Hu, B. S., Nishimura, D. G., McConnell, M. V.
  2005; 45 (1): 104-110

- **Early diagnosis of hemochromatosis-related cardiomyopathy with magnetic resonance imaging** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*

Ptaszek, L. M., Price, E. T., Hu, M. Y., Yang, P. C.
2005; 7 (4): 689-692

- **In vivo magnetic resonance evaluation of the effects of mouse embryonic stem cells on cardiac function** *53rd Annual Scientific Session of the American-College-of-Cardiology*
  Arai, T., de Bruin, J., Kofidis, T., Venook, R., McConnell, M. V., Quertermous, T., Robbins, R., Yang, P. C.
  ELSEVIER SCIENCE INC.2004: 532A–532A
- **Spiral magnetic resonance coronary angiography - Direct comparison of 1.5 tesla vs. 3 tesla** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*
  Yang, P. C., Nguyen, P., Shimakawa, A., Brittain, J., Pauly, J., Nishimura, D., Hu, B., McConnell, M.
  2004; 6 (4): 877-884
- **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
- **A visual approach for the accurate determination of echocardiographic left ventricular ejection fraction by medical students** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*
  Hope, M. D., de la Pena, E., Yang, P. C., Liang, D. H., McConnell, M. V., Rosenthal, D. N.
  2003; 16 (8): 824-831
- **Spiral magnetic resonance coronary angiography with rapid real-time localization** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Yang, P. C., Meyer, C. H., Terashima, M., Kaji, S., McConnell, M. V., Macovski, A., Pauly, J. M., Nishimura, D. G., Hu, B. S.
  2003; 41 (7): 1134-1141
- **Magnetic resonance coronary angiography.** *Current cardiology reports*
  Yang, P. C., McConnell, M. V., Nishimura, D. G., Hu, B. S.
  2003; 5 (1): 55-62
- **Contrast-enhanced MRI demonstrates acute response to vascular injury**
  Terashima, M., De La Pena-Almaguer, E., Yang, P. C., Hu, B. S., McConnell, M. V.
  ELSEVIER SCIENCE INC.2002: 389A–389A
- **NTG-enhanced coronary MRA: Improved SNR and vasodilation time course**
  Terashima, M., Keeffe, B. G., Putz, E. J., Yang, P. C., De La Pena-Almaguer, E., Hu, B. S., Nishimura, D. G., Meyer, C. H., McConnell, M. V.
  ELSEVIER SCIENCE INC.2002: 218A–218A
- **High-resolution real-time magnetic resonance imaging for vascular interventions.**
  Terashima, M., De La Pena-Almaguer, E., Nayak, K., Pauly, J. M., Yang, P. C., Hu, B. S., McConnell, M. V.
  EXCERPTA MEDICA INC.2001: 89G–89G
- **Real-time interactive coronary MRA** *MAGNETIC RESONANCE IN MEDICINE*
  Nayak, K. S., Pauly, J. M., Yang, P. C., Hu, B. S., Meyer, C. H., Nishimura, D. G.
  2001; 46 (3): 430-435
- **Rapid evaluation of left ventricular volume and mass without breath-holding using real-time interactive cardiac magnetic resonance imaging system** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Kaji, S., Yang, P. C., Kerr, A. B., Tang, W. H., Meyer, C. H., Macovski, A., Pauly, J. M., Nishimura, D. G., Hu, B. S.
  2001; 38 (2): 527-533
- **New real-time interactive cardiac magnetic resonance imaging system complements echocardiography** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Yang, P. C., Kerr, A. B., Liu, A. C., Liang, D. H., Hardy, C., Meyer, C. H., Macovski, A., Pauly, J. M., Hu, B. S.
  1998; 32 (7): 2049-2056

## PRESENTATIONS

- Biological Molecular Therapy using Exosomes - Stanford Cardiology Grand Rounds (10/1/2016)

- Personalized Biological Medicine - Frontiers in Cardiovascular Medicine 3rd Annual International Symposium
- Exosomes as a model of disease and potential therapy for the failing heart - AHA Scientific Sessions (11/2016)
- Exosomes to restore the injured heart - Anesthesiology Conference (5/1/2016)
- Research Progress of Molecular Biologics and Precision Medicine in USA - First International Stem Cell and Precision Medicine Summit (3/1/2016)
- Cardiovascular MRI: Myth or Truth - Department of Cell Biology and Molecular Medicine Seminar Series Rutgers University (12/2015)
- Cardiac MRI and Stem Cell Therapy - Molecular Medicine of the Heart Master Program in the Graduate School of Biomedical Sciences, Rutgers University (12/2012)
- Regenerative Medicine: iPSC Derived Cardiomyocytes - Frontiers in Cardiovascular Medicine 2nd Annual Session (July 2015)
- Myocardial Viability in Cell Therapy - AHA Scientific Sessions (November 2009)
- Clinical and Commercial Promise of Stem Cell Therapy - Saliai, Inc (6/2015)
- Translation of Cardiovascular Stem Cells - Jinan University (June 2015)
- 123 Presentations (2026)